TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 180-48309-1

Job Description: Harley Davidson

For:
Groundwater Sciences Corporation
2601 Market Place Street, Suite 310
Harrisburg, PA 17110-9307

Attention: Allan Miller

Approved for release.
Carrie L Gamber
Senior Project Manager
11/23/2015 12:06 PM

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11/23/2015
Revision: 1

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Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
^c	CCV Recovery is outside acceptance limits.
E	Result exceeded calibration range.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

CASE NARRATIVE

Client: Groundwater Sciences Corporation

Project: Harley Davidson

Report Number: 180-48309-1 REVISED

NOTE: This report has been revised to update the report formatting.

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT
The samples were received on 10/1/2015 9:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.1° C.

VOLATILES
The following samples was diluted to bring the concentration of target analytes within the calibration range: HD-MW-87-0/1-0 (180-48309-1), HD-MW-92-0/1-0 (180-48309-5) and HD-MW-64D-0/1-0 (180-48309-6). Elevated reporting limits (RLs) are provided.

The following analytes were outside the %D criteria but within the method criteria of the number of analytes allowed out: 1,4-Dioxane, Bromomethane, Chloroethane, and Vinyl chloride. An low level CCV was analyzed and all targets were found: (CCVIS 180-156309/5)

The following analytes were outside the %D criteria but within the method criteria of the number of analytes allowed out: Bromomethane, 2-Hexanone, 1,1,1,2-Tetrachloroethane, Bromoform, Styrene, and Acrylonitrile. An low level CCV was analyzed and all analytes were found: (CCVIS 180-156189/2)

SEMIVOLATILES
No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: Groundwater Sciences Corporation
Project/Site: Harley Davidson

TestAmerica Job ID: 180-48309-1

Client Sample ID: HD-MW-87-0/1-0 — Lab Sample ID: 180-48309-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	11	J	13	3.7	ug/L	12.5		8260C	Total/NA
1,1-Dichloroethane	4.6	J	13	1.5	ug/L	12.5		8260C	Total/NA
cis-1,2-Dichloroethene	460		13	3.0	ug/L	12.5		8260C	Total/NA
1,1,1-Trichloroethane	9.8	J	13	3.6	ug/L	12.5		8260C	Total/NA
Carbon tetrachloride	2.0	J	13	1.7	ug/L	12.5		8260C	Total/NA
Trichloroethene	390		13	1.8	ug/L	12.5		8260C	Total/NA
Tetrachloroethene	28		13	1.9	ug/L	12.5		8260C	Total/NA
1,4-Dioxane	9.7		1.9	0.049	ug/L	1		8270D LL	Total/NA

Client Sample ID: HD-MW-143S-0/1-0 — Lab Sample ID: 180-48309-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	2.2		1.0	0.14	ug/L	1		8260C	Total/NA

Client Sample ID: HD-MW-143D-0/1-0 — Lab Sample ID: 180-48309-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	0.39	J	1.0	0.24	ug/L	1		8260C	Total/NA

Client Sample ID: HD-MW-20M-0/1-0 — Lab Sample ID: 180-48309-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	1.0		1.0	0.17	ug/L	1		8260C	Total/NA
Trichloroethene	13		1.0	0.14	ug/L	1		8260C	Total/NA
Tetrachloroethene	0.30	J	1.0	0.15	ug/L	1		8260C	Total/NA

Client Sample ID: HD-MW-92-0/1-0 — Lab Sample ID: 180-48309-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	0.31	J	1.0	0.24	ug/L	1		8260C	Total/NA
Trichloroethene	12		1.0	0.14	ug/L	1		8260C	Total/NA
Tetrachloroethene	150	E	1.0	0.15	ug/L	1		8260C	Total/NA
Trichloroethene - DL	12		10	1.4	ug/L	10		8260C	Total/NA
Tetrachloroethene - DL	150		10	1.5	ug/L	10		8260C	Total/NA

Client Sample ID: HD-MW-64D-0/1-0 — Lab Sample ID: 180-48309-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	240	E	2.5	0.36	ug/L	2.5		8260C	Total/NA
Tetrachloroethene	420	E	2.5	0.37	ug/L	2.5		8260C	Total/NA
Trichloroethene - DL	210		25	3.6	ug/L	25		8260C	Total/NA
Tetrachloroethene - DL	420		25	3.7	ug/L	25		8260C	Total/NA

Client Sample ID: HD-QC12-0/1-2 — Lab Sample ID: 180-48309-7

No Detections.

This Detection Summary does not include radiochemical test results.

Method: 8260C - Volatile Organic Compounds (GC/MS)

Client Sample ID: HD-MW-87-0/1-0
Date Collected: 09/30/15 10:37
Date Received: 10/01/15 09:30

Lab Sample ID: 180-48309-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	13	U	13	3.5	ug/L			10/08/15 16:24	12.5
Vinyl chloride	13	U ^c	13	2.8	ug/L			10/08/15 16:24	12.5
Bromomethane	13	U ^c	13	3.9	ug/L			10/08/15 16:24	12.5
Chloroethane	13	U ^c	13	2.7	ug/L			10/08/15 16:24	12.5
1,1-Dichloroethene	**11**	**J**	13	3.7	ug/L			10/08/15 16:24	12.5
Acetone	63	U	63	31	ug/L			10/08/15 16:24	12.5
Carbon disulfide	13	U	13	2.7	ug/L			10/08/15 16:24	12.5
Methylene Chloride	13	U	13	1.6	ug/L			10/08/15 16:24	12.5
trans-1,2-Dichloroethene	13	U	13	2.1	ug/L			10/08/15 16:24	12.5
Methyl tert-butyl ether	13	U	13	2.3	ug/L			10/08/15 16:24	12.5
1,1-Dichloroethane	**4.6**	**J**	13	1.5	ug/L			10/08/15 16:24	12.5
cis-1,2-Dichloroethene	**460**		13	3.0	ug/L			10/08/15 16:24	12.5
Bromochloromethane	13	U	13	2.3	ug/L			10/08/15 16:24	12.5
2-Butanone (MEK)	63	U	63	6.8	ug/L			10/08/15 16:24	12.5
Chloroform	13	U	13	2.1	ug/L			10/08/15 16:24	12.5
1,1,1-Trichloroethane	**9.8**	**J**	13	3.6	ug/L			10/08/15 16:24	12.5
Carbon tetrachloride	**2.0**	**J**	13	1.7	ug/L			10/08/15 16:24	12.5
Benzene	13	U	13	1.3	ug/L			10/08/15 16:24	12.5
1,2-Dichloroethane	13	U	13	2.6	ug/L			10/08/15 16:24	12.5
Trichloroethene	**390**		13	1.8	ug/L			10/08/15 16:24	12.5
1,2-Dichloropropane	13	U	13	1.2	ug/L			10/08/15 16:24	12.5
Bromodichloromethane	13	U	13	1.6	ug/L			10/08/15 16:24	12.5
cis-1,3-Dichloropropene	13	U	13	2.3	ug/L			10/08/15 16:24	12.5
4-Methyl-2-pentanone (MIBK)	63	U	63	6.6	ug/L			10/08/15 16:24	12.5
Toluene	13	U	13	1.9	ug/L			10/08/15 16:24	12.5
trans-1,3-Dichloropropene	13	U	13	1.9	ug/L			10/08/15 16:24	12.5
1,1,2-Trichloroethane	13	U	13	2.5	ug/L			10/08/15 16:24	12.5
Tetrachloroethene	**28**		13	1.9	ug/L			10/08/15 16:24	12.5
2-Hexanone	63	U	63	2.0	ug/L			10/08/15 16:24	12.5
Dibromochloromethane	13	U	13	1.7	ug/L			10/08/15 16:24	12.5
1,2-Dibromoethane (EDB)	13	U	13	2.3	ug/L			10/08/15 16:24	12.5
Chlorobenzene	13	U	13	1.7	ug/L			10/08/15 16:24	12.5
1,1,1,2-Tetrachloroethane	13	U	13	3.5	ug/L			10/08/15 16:24	12.5
Ethylbenzene	13	U	13	2.8	ug/L			10/08/15 16:24	12.5
Xylenes, Total	38	U	38	6.1	ug/L			10/08/15 16:24	12.5
Styrene	13	U	13	1.2	ug/L			10/08/15 16:24	12.5
Bromoform	13	U	13	2.4	ug/L			10/08/15 16:24	12.5
1,1,2,2-Tetrachloroethane	13	U	13	2.5	ug/L			10/08/15 16:24	12.5
Acrylonitrile	250	U	250	6.8	ug/L			10/08/15 16:24	12.5
1,4-Dioxane	2500	U ^c	2500	430	ug/L			10/08/15 16:24	12.5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*91*		*64 - 135*		*10/08/15 16:24*	*12.5*
Toluene-d8 (Surr)	*93*		*71 - 118*		*10/08/15 16:24*	*12.5*
4-Bromofluorobenzene (Surr)	*91*		*70 - 118*		*10/08/15 16:24*	*12.5*
Dibromofluoromethane (Surr)	*102*		*70 - 128*		*10/08/15 16:24*	*12.5*

Method: 8260C - Volatile Organic Compounds (GC/MS)

Client Sample ID: HD-MW-143S-0/1-0
Date Collected: 09/30/15 14:02
Date Received: 10/01/15 09:30

Lab Sample ID: 180-48309-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	1.0	U	1.0	0.28	ug/L			10/07/15 20:03	1
Vinyl chloride	1.0	U	1.0	0.23	ug/L			10/07/15 20:03	1
Bromomethane	1.0	U ^c	1.0	0.31	ug/L			10/07/15 20:03	1
Chloroethane	1.0	U	1.0	0.21	ug/L			10/07/15 20:03	1
1,1-Dichloroethene	1.0	U	1.0	0.30	ug/L			10/07/15 20:03	1
Acetone	5.0	U	5.0	2.5	ug/L			10/07/15 20:03	1
Carbon disulfide	1.0	U	1.0	0.21	ug/L			10/07/15 20:03	1
Methylene Chloride	1.0	U	1.0	0.13	ug/L			10/07/15 20:03	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.17	ug/L			10/07/15 20:03	1
Methyl tert-butyl ether	1.0	U	1.0	0.18	ug/L			10/07/15 20:03	1
1,1-Dichloroethane	1.0	U	1.0	0.12	ug/L			10/07/15 20:03	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			10/07/15 20:03	1
Bromochloromethane	1.0	U	1.0	0.18	ug/L			10/07/15 20:03	1
2-Butanone (MEK)	5.0	U	5.0	0.55	ug/L			10/07/15 20:03	1
Chloroform	1.0	U	1.0	0.17	ug/L			10/07/15 20:03	1
1,1,1-Trichloroethane	1.0	U	1.0	0.29	ug/L			10/07/15 20:03	1
Carbon tetrachloride	1.0	U	1.0	0.14	ug/L			10/07/15 20:03	1
Benzene	1.0	U	1.0	0.11	ug/L			10/07/15 20:03	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			10/07/15 20:03	1
Trichloroethene	**2.2**		1.0	0.14	ug/L			10/07/15 20:03	1
1,2-Dichloropropane	1.0	U	1.0	0.095	ug/L			10/07/15 20:03	1
Bromodichloromethane	1.0	U	1.0	0.13	ug/L			10/07/15 20:03	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.19	ug/L			10/07/15 20:03	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	0.53	ug/L			10/07/15 20:03	1
Toluene	1.0	U	1.0	0.15	ug/L			10/07/15 20:03	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.15	ug/L			10/07/15 20:03	1
1,1,2-Trichloroethane	1.0	U	1.0	0.20	ug/L			10/07/15 20:03	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			10/07/15 20:03	1
2-Hexanone	5.0	U ^c	5.0	0.16	ug/L			10/07/15 20:03	1
Dibromochloromethane	1.0	U	1.0	0.14	ug/L			10/07/15 20:03	1
1,2-Dibromoethane (EDB)	1.0	U	1.0	0.18	ug/L			10/07/15 20:03	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			10/07/15 20:03	1
1,1,1,2-Tetrachloroethane	1.0	U ^c	1.0	0.28	ug/L			10/07/15 20:03	1
Ethylbenzene	1.0	U	1.0	0.23	ug/L			10/07/15 20:03	1
Xylenes, Total	3.0	U	3.0	0.49	ug/L			10/07/15 20:03	1
Styrene	1.0	U ^c	1.0	0.097	ug/L			10/07/15 20:03	1
Bromoform	1.0	U ^c	1.0	0.19	ug/L			10/07/15 20:03	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.20	ug/L			10/07/15 20:03	1
Acrylonitrile	20	U ^c	20	0.55	ug/L			10/07/15 20:03	1
1,4-Dioxane	200	U ^c	200	34	ug/L			10/07/15 20:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*64 - 135*		*10/07/15 20:03*	*1*
Toluene-d8 (Surr)	*104*		*71 - 118*		*10/07/15 20:03*	*1*
4-Bromofluorobenzene (Surr)	*87*		*70 - 118*		*10/07/15 20:03*	*1*
Dibromofluoromethane (Surr)	*107*		*70 - 128*		*10/07/15 20:03*	*1*

Method: 8260C - Volatile Organic Compounds (GC/MS)

Client Sample ID: HD-MW-143D-0/1-0
Date Collected: 09/30/15 12:42
Date Received: 10/01/15 09:30

Lab Sample ID: 180-48309-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	1.0	U	1.0	0.28	ug/L			10/07/15 20:27	1
Vinyl chloride	1.0	U	1.0	0.23	ug/L			10/07/15 20:27	1
Bromomethane	1.0	U ^c	1.0	0.31	ug/L			10/07/15 20:27	1
Chloroethane	1.0	U	1.0	0.21	ug/L			10/07/15 20:27	1
1,1-Dichloroethene	1.0	U	1.0	0.30	ug/L			10/07/15 20:27	1
Acetone	5.0	U	5.0	2.5	ug/L			10/07/15 20:27	1
Carbon disulfide	1.0	U	1.0	0.21	ug/L			10/07/15 20:27	1
Methylene Chloride	1.0	U	1.0	0.13	ug/L			10/07/15 20:27	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.17	ug/L			10/07/15 20:27	1
Methyl tert-butyl ether	1.0	U	1.0	0.18	ug/L			10/07/15 20:27	1
1,1-Dichloroethane	1.0	U	1.0	0.12	ug/L			10/07/15 20:27	1
cis-1,2-Dichloroethene	**0.39**	**J**	1.0	0.24	ug/L			10/07/15 20:27	1
Bromochloromethane	1.0	U	1.0	0.18	ug/L			10/07/15 20:27	1
2-Butanone (MEK)	5.0	U	5.0	0.55	ug/L			10/07/15 20:27	1
Chloroform	1.0	U	1.0	0.17	ug/L			10/07/15 20:27	1
1,1,1-Trichloroethane	1.0	U	1.0	0.29	ug/L			10/07/15 20:27	1
Carbon tetrachloride	1.0	U	1.0	0.14	ug/L			10/07/15 20:27	1
Benzene	1.0	U	1.0	0.11	ug/L			10/07/15 20:27	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			10/07/15 20:27	1
Trichloroethene	1.0	U	1.0	0.14	ug/L			10/07/15 20:27	1
1,2-Dichloropropane	1.0	U	1.0	0.095	ug/L			10/07/15 20:27	1
Bromodichloromethane	1.0	U	1.0	0.13	ug/L			10/07/15 20:27	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.19	ug/L			10/07/15 20:27	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	0.53	ug/L			10/07/15 20:27	1
Toluene	1.0	U	1.0	0.15	ug/L			10/07/15 20:27	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.15	ug/L			10/07/15 20:27	1
1,1,2-Trichloroethane	1.0	U	1.0	0.20	ug/L			10/07/15 20:27	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			10/07/15 20:27	1
2-Hexanone	5.0	U ^c	5.0	0.16	ug/L			10/07/15 20:27	1
Dibromochloromethane	1.0	U	1.0	0.14	ug/L			10/07/15 20:27	1
1,2-Dibromoethane (EDB)	1.0	U	1.0	0.18	ug/L			10/07/15 20:27	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			10/07/15 20:27	1
1,1,1,2-Tetrachloroethane	1.0	U ^c	1.0	0.28	ug/L			10/07/15 20:27	1
Ethylbenzene	1.0	U	1.0	0.23	ug/L			10/07/15 20:27	1
Xylenes, Total	3.0	U	3.0	0.49	ug/L			10/07/15 20:27	1
Styrene	1.0	U ^c	1.0	0.097	ug/L			10/07/15 20:27	1
Bromoform	1.0	U ^c	1.0	0.19	ug/L			10/07/15 20:27	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.20	ug/L			10/07/15 20:27	1
Acrylonitrile	20	U ^c	20	0.55	ug/L			10/07/15 20:27	1
1,4-Dioxane	200	U ^c	200	34	ug/L			10/07/15 20:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*64 - 135*		*10/07/15 20:27*	*1*
Toluene-d8 (Surr)	*101*		*71 - 118*		*10/07/15 20:27*	*1*
4-Bromofluorobenzene (Surr)	*86*		*70 - 118*		*10/07/15 20:27*	*1*
Dibromofluoromethane (Surr)	*104*		*70 - 128*		*10/07/15 20:27*	*1*

Method: 8260C - Volatile Organic Compounds (GC/MS)

Client Sample ID: HD-MW-20M-0/1-0
Date Collected: 09/30/15 08:45
Date Received: 10/01/15 09:30

Lab Sample ID: 180-48309-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	1.0	U	1.0	0.28	ug/L			10/07/15 20:51	1
Vinyl chloride	1.0	U	1.0	0.23	ug/L			10/07/15 20:51	1
Bromomethane	1.0	U ^c	1.0	0.31	ug/L			10/07/15 20:51	1
Chloroethane	1.0	U	1.0	0.21	ug/L			10/07/15 20:51	1
1,1-Dichloroethene	1.0	U	1.0	0.30	ug/L			10/07/15 20:51	1
Acetone	5.0	U	5.0	2.5	ug/L			10/07/15 20:51	1
Carbon disulfide	1.0	U	1.0	0.21	ug/L			10/07/15 20:51	1
Methylene Chloride	1.0	U	1.0	0.13	ug/L			10/07/15 20:51	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.17	ug/L			10/07/15 20:51	1
Methyl tert-butyl ether	1.0	U	1.0	0.18	ug/L			10/07/15 20:51	1
1,1-Dichloroethane	1.0	U	1.0	0.12	ug/L			10/07/15 20:51	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			10/07/15 20:51	1
Bromochloromethane	1.0	U	1.0	0.18	ug/L			10/07/15 20:51	1
2-Butanone (MEK)	5.0	U	5.0	0.55	ug/L			10/07/15 20:51	1
Chloroform	**1.0**		1.0	0.17	ug/L			10/07/15 20:51	1
1,1,1-Trichloroethane	1.0	U	1.0	0.29	ug/L			10/07/15 20:51	1
Carbon tetrachloride	1.0	U	1.0	0.14	ug/L			10/07/15 20:51	1
Benzene	1.0	U	1.0	0.11	ug/L			10/07/15 20:51	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			10/07/15 20:51	1
Trichloroethene	**13**		1.0	0.14	ug/L			10/07/15 20:51	1
1,2-Dichloropropane	1.0	U	1.0	0.095	ug/L			10/07/15 20:51	1
Bromodichloromethane	1.0	U	1.0	0.13	ug/L			10/07/15 20:51	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.19	ug/L			10/07/15 20:51	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	0.53	ug/L			10/07/15 20:51	1
Toluene	1.0	U	1.0	0.15	ug/L			10/07/15 20:51	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.15	ug/L			10/07/15 20:51	1
1,1,2-Trichloroethane	1.0	U	1.0	0.20	ug/L			10/07/15 20:51	1
Tetrachloroethene	**0.30**	**J**	1.0	0.15	ug/L			10/07/15 20:51	1
2-Hexanone	5.0	U ^c	5.0	0.16	ug/L			10/07/15 20:51	1
Dibromochloromethane	1.0	U	1.0	0.14	ug/L			10/07/15 20:51	1
1,2-Dibromoethane (EDB)	1.0	U	1.0	0.18	ug/L			10/07/15 20:51	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			10/07/15 20:51	1
1,1,1,2-Tetrachloroethane	1.0	U ^c	1.0	0.28	ug/L			10/07/15 20:51	1
Ethylbenzene	1.0	U	1.0	0.23	ug/L			10/07/15 20:51	1
Xylenes, Total	3.0	U	3.0	0.49	ug/L			10/07/15 20:51	1
Styrene	1.0	U ^c	1.0	0.097	ug/L			10/07/15 20:51	1
Bromoform	1.0	U ^c	1.0	0.19	ug/L			10/07/15 20:51	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.20	ug/L			10/07/15 20:51	1
Acrylonitrile	20	U ^c	20	0.55	ug/L			10/07/15 20:51	1
1,4-Dioxane	200	U ^c	200	34	ug/L			10/07/15 20:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*64 - 135*		*10/07/15 20:51*	*1*
Toluene-d8 (Surr)	*108*		*71 - 118*		*10/07/15 20:51*	*1*
4-Bromofluorobenzene (Surr)	*91*		*70 - 118*		*10/07/15 20:51*	*1*
Dibromofluoromethane (Surr)	*106*		*70 - 128*		*10/07/15 20:51*	*1*

Method: 8260C - Volatile Organic Compounds (GC/MS)

Client Sample ID: HD-MW-92-0/1-0
Date Collected: 09/30/15 08:25
Date Received: 10/01/15 09:30

Lab Sample ID: 180-48309-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	1.0	U	1.0	0.28	ug/L			10/07/15 23:42	1
Vinyl chloride	1.0	U	1.0	0.23	ug/L			10/07/15 23:42	1
Bromomethane	1.0	U ^c	1.0	0.31	ug/L			10/07/15 23:42	1
Chloroethane	1.0	U	1.0	0.21	ug/L			10/07/15 23:42	1
1,1-Dichloroethene	1.0	U	1.0	0.30	ug/L			10/07/15 23:42	1
Acetone	5.0	U	5.0	2.5	ug/L			10/07/15 23:42	1
Carbon disulfide	1.0	U	1.0	0.21	ug/L			10/07/15 23:42	1
Methylene Chloride	1.0	U	1.0	0.13	ug/L			10/07/15 23:42	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.17	ug/L			10/07/15 23:42	1
Methyl tert-butyl ether	1.0	U	1.0	0.18	ug/L			10/07/15 23:42	1
1,1-Dichloroethane	1.0	U	1.0	0.12	ug/L			10/07/15 23:42	1
cis-1,2-Dichloroethene	**0.31**	**J**	1.0	0.24	ug/L			10/07/15 23:42	1
Bromochloromethane	1.0	U	1.0	0.18	ug/L			10/07/15 23:42	1
2-Butanone (MEK)	5.0	U	5.0	0.55	ug/L			10/07/15 23:42	1
Chloroform	1.0	U	1.0	0.17	ug/L			10/07/15 23:42	1
1,1,1-Trichloroethane	1.0	U	1.0	0.29	ug/L			10/07/15 23:42	1
Carbon tetrachloride	1.0	U	1.0	0.14	ug/L			10/07/15 23:42	1
Benzene	1.0	U	1.0	0.11	ug/L			10/07/15 23:42	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			10/07/15 23:42	1
Trichloroethene	**12**		1.0	0.14	ug/L			10/07/15 23:42	1
1,2-Dichloropropane	1.0	U	1.0	0.095	ug/L			10/07/15 23:42	1
Bromodichloromethane	1.0	U	1.0	0.13	ug/L			10/07/15 23:42	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.19	ug/L			10/07/15 23:42	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	0.53	ug/L			10/07/15 23:42	1
Toluene	1.0	U	1.0	0.15	ug/L			10/07/15 23:42	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.15	ug/L			10/07/15 23:42	1
1,1,2-Trichloroethane	1.0	U	1.0	0.20	ug/L			10/07/15 23:42	1
Tetrachloroethene	**150**	**E**	1.0	0.15	ug/L			10/07/15 23:42	1
2-Hexanone	5.0	U ^c	5.0	0.16	ug/L			10/07/15 23:42	1
Dibromochloromethane	1.0	U	1.0	0.14	ug/L			10/07/15 23:42	1
1,2-Dibromoethane (EDB)	1.0	U	1.0	0.18	ug/L			10/07/15 23:42	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			10/07/15 23:42	1
1,1,1,2-Tetrachloroethane	1.0	U ^c	1.0	0.28	ug/L			10/07/15 23:42	1
Ethylbenzene	1.0	U	1.0	0.23	ug/L			10/07/15 23:42	1
Xylenes, Total	3.0	U	3.0	0.49	ug/L			10/07/15 23:42	1
Styrene	1.0	U ^c	1.0	0.097	ug/L			10/07/15 23:42	1
Bromoform	1.0	U ^c	1.0	0.19	ug/L			10/07/15 23:42	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.20	ug/L			10/07/15 23:42	1
Acrylonitrile	20	U ^c	20	0.55	ug/L			10/07/15 23:42	1
1,4-Dioxane	200	U ^c	200	34	ug/L			10/07/15 23:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*64 - 135*		*10/07/15 23:42*	*1*
Toluene-d8 (Surr)	*103*		*71 - 118*		*10/07/15 23:42*	*1*
4-Bromofluorobenzene (Surr)	*85*		*70 - 118*		*10/07/15 23:42*	*1*
Dibromofluoromethane (Surr)	*111*		*70 - 128*		*10/07/15 23:42*	*1*

Method: 8260C - Volatile Organic Compounds (GC/MS)

Client Sample ID: HD-MW-64D-0/1-0
Date Collected: 09/30/15 12:40
Date Received: 10/01/15 09:30

Lab Sample ID: 180-48309-6
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	2.5	U	2.5	0.71	ug/L			10/08/15 22:50	2.5
Vinyl chloride	2.5	U ^c	2.5	0.57	ug/L			10/08/15 22:50	2.5
Bromomethane	2.5	U ^c	2.5	0.78	ug/L			10/08/15 22:50	2.5
Chloroethane	2.5	U ^c	2.5	0.54	ug/L			10/08/15 22:50	2.5
1,1-Dichloroethene	2.5	U	2.5	0.74	ug/L			10/08/15 22:50	2.5
Acetone	13	U	13	6.3	ug/L			10/08/15 22:50	2.5
Carbon disulfide	2.5	U	2.5	0.53	ug/L			10/08/15 22:50	2.5
Methylene Chloride	2.5	U	2.5	0.31	ug/L			10/08/15 22:50	2.5
trans-1,2-Dichloroethene	2.5	U	2.5	0.42	ug/L			10/08/15 22:50	2.5
Methyl tert-butyl ether	2.5	U	2.5	0.46	ug/L			10/08/15 22:50	2.5
1,1-Dichloroethane	2.5	U	2.5	0.29	ug/L			10/08/15 22:50	2.5
cis-1,2-Dichloroethene	2.5	U	2.5	0.59	ug/L			10/08/15 22:50	2.5
Bromochloromethane	2.5	U	2.5	0.45	ug/L			10/08/15 22:50	2.5
2-Butanone (MEK)	13	U	13	1.4	ug/L			10/08/15 22:50	2.5
Chloroform	2.5	U	2.5	0.43	ug/L			10/08/15 22:50	2.5
1,1,1-Trichloroethane	2.5	U	2.5	0.72	ug/L			10/08/15 22:50	2.5
Carbon tetrachloride	2.5	U	2.5	0.34	ug/L			10/08/15 22:50	2.5
Benzene	2.5	U	2.5	0.26	ug/L			10/08/15 22:50	2.5
1,2-Dichloroethane	2.5	U	2.5	0.53	ug/L			10/08/15 22:50	2.5
Trichloroethene	**240**	**E**	2.5	0.36	ug/L			10/08/15 22:50	2.5
1,2-Dichloropropane	2.5	U	2.5	0.24	ug/L			10/08/15 22:50	2.5
Bromodichloromethane	2.5	U	2.5	0.33	ug/L			10/08/15 22:50	2.5
cis-1,3-Dichloropropene	2.5	U	2.5	0.47	ug/L			10/08/15 22:50	2.5
4-Methyl-2-pentanone (MIBK)	13	U	13	1.3	ug/L			10/08/15 22:50	2.5
Toluene	2.5	U	2.5	0.38	ug/L			10/08/15 22:50	2.5
trans-1,3-Dichloropropene	2.5	U	2.5	0.37	ug/L			10/08/15 22:50	2.5
1,1,2-Trichloroethane	2.5	U	2.5	0.50	ug/L			10/08/15 22:50	2.5
Tetrachloroethene	**420**	**E**	2.5	0.37	ug/L			10/08/15 22:50	2.5
2-Hexanone	13	U	13	0.40	ug/L			10/08/15 22:50	2.5
Dibromochloromethane	2.5	U	2.5	0.34	ug/L			10/08/15 22:50	2.5
1,2-Dibromoethane (EDB)	2.5	U	2.5	0.45	ug/L			10/08/15 22:50	2.5
Chlorobenzene	2.5	U	2.5	0.34	ug/L			10/08/15 22:50	2.5
1,1,1,2-Tetrachloroethane	2.5	U	2.5	0.69	ug/L			10/08/15 22:50	2.5
Ethylbenzene	2.5	U	2.5	0.57	ug/L			10/08/15 22:50	2.5
Xylenes, Total	7.5	U	7.5	1.2	ug/L			10/08/15 22:50	2.5
Styrene	2.5	U	2.5	0.24	ug/L			10/08/15 22:50	2.5
Bromoform	2.5	U	2.5	0.48	ug/L			10/08/15 22:50	2.5
1,1,2,2-Tetrachloroethane	2.5	U	2.5	0.50	ug/L			10/08/15 22:50	2.5
Acrylonitrile	50	U	50	1.4	ug/L			10/08/15 22:50	2.5
1,4-Dioxane	500	U ^c	500	86	ug/L			10/08/15 22:50	2.5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*64 - 135*		*10/08/15 22:50*	*2.5*
Toluene-d8 (Surr)	*87*		*71 - 118*		*10/08/15 22:50*	*2.5*
4-Bromofluorobenzene (Surr)	*86*		*70 - 118*		*10/08/15 22:50*	*2.5*
Dibromofluoromethane (Surr)	*112*		*70 - 128*		*10/08/15 22:50*	*2.5*

Method: 8260C - Volatile Organic Compounds (GC/MS)

Client Sample ID: HD-QC12-0/1-2
Date Collected: 09/30/15 12:00
Date Received: 10/01/15 09:30

Lab Sample ID: 180-48309-7
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	1.0	U	1.0	0.28	ug/L			10/07/15 19:39	1
Vinyl chloride	1.0	U	1.0	0.23	ug/L			10/07/15 19:39	1
Bromomethane	1.0	U ^c	1.0	0.31	ug/L			10/07/15 19:39	1
Chloroethane	1.0	U	1.0	0.21	ug/L			10/07/15 19:39	1
1,1-Dichloroethene	1.0	U	1.0	0.30	ug/L			10/07/15 19:39	1
Acetone	5.0	U	5.0	2.5	ug/L			10/07/15 19:39	1
Carbon disulfide	1.0	U	1.0	0.21	ug/L			10/07/15 19:39	1
Methylene Chloride	1.0	U	1.0	0.13	ug/L			10/07/15 19:39	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.17	ug/L			10/07/15 19:39	1
Methyl tert-butyl ether	1.0	U	1.0	0.18	ug/L			10/07/15 19:39	1
1,1-Dichloroethane	1.0	U	1.0	0.12	ug/L			10/07/15 19:39	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			10/07/15 19:39	1
Bromochloromethane	1.0	U	1.0	0.18	ug/L			10/07/15 19:39	1
2-Butanone (MEK)	5.0	U	5.0	0.55	ug/L			10/07/15 19:39	1
Chloroform	1.0	U	1.0	0.17	ug/L			10/07/15 19:39	1
1,1,1-Trichloroethane	1.0	U	1.0	0.29	ug/L			10/07/15 19:39	1
Carbon tetrachloride	1.0	U	1.0	0.14	ug/L			10/07/15 19:39	1
Benzene	1.0	U	1.0	0.11	ug/L			10/07/15 19:39	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			10/07/15 19:39	1
Trichloroethene	1.0	U	1.0	0.14	ug/L			10/07/15 19:39	1
1,2-Dichloropropane	1.0	U	1.0	0.095	ug/L			10/07/15 19:39	1
Bromodichloromethane	1.0	U	1.0	0.13	ug/L			10/07/15 19:39	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.19	ug/L			10/07/15 19:39	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	0.53	ug/L			10/07/15 19:39	1
Toluene	1.0	U	1.0	0.15	ug/L			10/07/15 19:39	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.15	ug/L			10/07/15 19:39	1
1,1,2-Trichloroethane	1.0	U	1.0	0.20	ug/L			10/07/15 19:39	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			10/07/15 19:39	1
2-Hexanone	5.0	U ^c	5.0	0.16	ug/L			10/07/15 19:39	1
Dibromochloromethane	1.0	U	1.0	0.14	ug/L			10/07/15 19:39	1
1,2-Dibromoethane (EDB)	1.0	U	1.0	0.18	ug/L			10/07/15 19:39	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			10/07/15 19:39	1
1,1,1,2-Tetrachloroethane	1.0	U ^c	1.0	0.28	ug/L			10/07/15 19:39	1
Ethylbenzene	1.0	U	1.0	0.23	ug/L			10/07/15 19:39	1
Xylenes, Total	3.0	U	3.0	0.49	ug/L			10/07/15 19:39	1
Styrene	1.0	U ^c	1.0	0.097	ug/L			10/07/15 19:39	1
Bromoform	1.0	U ^c	1.0	0.19	ug/L			10/07/15 19:39	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.20	ug/L			10/07/15 19:39	1
Acrylonitrile	20	U ^c	20	0.55	ug/L			10/07/15 19:39	1
1,4-Dioxane	200	U ^c	200	34	ug/L			10/07/15 19:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*64 - 135*		*10/07/15 19:39*	*1*
Toluene-d8 (Surr)	*109*		*71 - 118*		*10/07/15 19:39*	*1*
4-Bromofluorobenzene (Surr)	*91*		*70 - 118*		*10/07/15 19:39*	*1*
Dibromofluoromethane (Surr)	*106*		*70 - 128*		*10/07/15 19:39*	*1*

Method: 8260C - Volatile Organic Compounds (GC/MS) - DL

Client Sample ID: HD-MW-92-0/1-0
Date Collected: 09/30/15 08:25
Date Received: 10/01/15 09:30

Lab Sample ID: 180-48309-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	10	U	10	2.8	ug/L			10/08/15 16:48	10
Vinyl chloride	10	U ^c	10	2.3	ug/L			10/08/15 16:48	10
Bromomethane	10	U ^c	10	3.1	ug/L			10/08/15 16:48	10
Chloroethane	10	U ^c	10	2.1	ug/L			10/08/15 16:48	10
1,1-Dichloroethene	10	U	10	3.0	ug/L			10/08/15 16:48	10
Acetone	50	U	50	25	ug/L			10/08/15 16:48	10
Carbon disulfide	10	U	10	2.1	ug/L			10/08/15 16:48	10
Methylene Chloride	10	U	10	1.3	ug/L			10/08/15 16:48	10
trans-1,2-Dichloroethene	10	U	10	1.7	ug/L			10/08/15 16:48	10
Methyl tert-butyl ether	10	U	10	1.8	ug/L			10/08/15 16:48	10
1,1-Dichloroethane	10	U	10	1.2	ug/L			10/08/15 16:48	10
cis-1,2-Dichloroethene	10	U	10	2.4	ug/L			10/08/15 16:48	10
Bromochloromethane	10	U	10	1.8	ug/L			10/08/15 16:48	10
2-Butanone (MEK)	50	U	50	5.5	ug/L			10/08/15 16:48	10
Chloroform	10	U	10	1.7	ug/L			10/08/15 16:48	10
1,1,1-Trichloroethane	10	U	10	2.9	ug/L			10/08/15 16:48	10
Carbon tetrachloride	10	U	10	1.4	ug/L			10/08/15 16:48	10
Benzene	10	U	10	1.1	ug/L			10/08/15 16:48	10
1,2-Dichloroethane	10	U	10	2.1	ug/L			10/08/15 16:48	10
Trichloroethene	**12**		10	1.4	ug/L			10/08/15 16:48	10
1,2-Dichloropropane	10	U	10	0.95	ug/L			10/08/15 16:48	10
Bromodichloromethane	10	U	10	1.3	ug/L			10/08/15 16:48	10
cis-1,3-Dichloropropene	10	U	10	1.9	ug/L			10/08/15 16:48	10
4-Methyl-2-pentanone (MIBK)	50	U	50	5.3	ug/L			10/08/15 16:48	10
Toluene	10	U	10	1.5	ug/L			10/08/15 16:48	10
trans-1,3-Dichloropropene	10	U	10	1.5	ug/L			10/08/15 16:48	10
1,1,2-Trichloroethane	10	U	10	2.0	ug/L			10/08/15 16:48	10
Tetrachloroethene	**150**		10	1.5	ug/L			10/08/15 16:48	10
2-Hexanone	50	U	50	1.6	ug/L			10/08/15 16:48	10
Dibromochloromethane	10	U	10	1.4	ug/L			10/08/15 16:48	10
1,2-Dibromoethane (EDB)	10	U	10	1.8	ug/L			10/08/15 16:48	10
Chlorobenzene	10	U	10	1.4	ug/L			10/08/15 16:48	10
1,1,1,2-Tetrachloroethane	10	U	10	2.8	ug/L			10/08/15 16:48	10
Ethylbenzene	10	U	10	2.3	ug/L			10/08/15 16:48	10
Xylenes, Total	30	U	30	4.9	ug/L			10/08/15 16:48	10
Styrene	10	U	10	0.97	ug/L			10/08/15 16:48	10
Bromoform	10	U	10	1.9	ug/L			10/08/15 16:48	10
1,1,2,2-Tetrachloroethane	10	U	10	2.0	ug/L			10/08/15 16:48	10
Acrylonitrile	200	U	200	5.5	ug/L			10/08/15 16:48	10
1,4-Dioxane	2000	U ^c	2000	340	ug/L			10/08/15 16:48	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*64 - 135*		*10/08/15 16:48*	*10*
Toluene-d8 (Surr)	*89*		*71 - 118*		*10/08/15 16:48*	*10*
4-Bromofluorobenzene (Surr)	*88*		*70 - 118*		*10/08/15 16:48*	*10*
Dibromofluoromethane (Surr)	*101*		*70 - 128*		*10/08/15 16:48*	*10*

Method: 8260C - Volatile Organic Compounds (GC/MS) - DL

Client Sample ID: HD-MW-64D-0/1-0
Date Collected: 09/30/15 12:40
Date Received: 10/01/15 09:30

Lab Sample ID: 180-48309-6
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	25	U	25	7.1	ug/L			10/07/15 21:15	25
Vinyl chloride	25	U	25	5.7	ug/L			10/07/15 21:15	25
Bromomethane	25	U ^c	25	7.8	ug/L			10/07/15 21:15	25
Chloroethane	25	U	25	5.4	ug/L			10/07/15 21:15	25
1,1-Dichloroethene	25	U	25	7.4	ug/L			10/07/15 21:15	25
Acetone	130	U	130	63	ug/L			10/07/15 21:15	25
Carbon disulfide	25	U	25	5.3	ug/L			10/07/15 21:15	25
Methylene Chloride	25	U	25	3.1	ug/L			10/07/15 21:15	25
trans-1,2-Dichloroethene	25	U	25	4.2	ug/L			10/07/15 21:15	25
Methyl tert-butyl ether	25	U	25	4.6	ug/L			10/07/15 21:15	25
1,1-Dichloroethane	25	U	25	2.9	ug/L			10/07/15 21:15	25
cis-1,2-Dichloroethene	25	U	25	5.9	ug/L			10/07/15 21:15	25
Bromochloromethane	25	U	25	4.5	ug/L			10/07/15 21:15	25
2-Butanone (MEK)	130	U	130	14	ug/L			10/07/15 21:15	25
Chloroform	25	U	25	4.3	ug/L			10/07/15 21:15	25
1,1,1-Trichloroethane	25	U	25	7.2	ug/L			10/07/15 21:15	25
Carbon tetrachloride	25	U	25	3.4	ug/L			10/07/15 21:15	25
Benzene	25	U	25	2.6	ug/L			10/07/15 21:15	25
1,2-Dichloroethane	25	U	25	5.3	ug/L			10/07/15 21:15	25
Trichloroethene	**210**		25	3.6	ug/L			10/07/15 21:15	25
1,2-Dichloropropane	25	U	25	2.4	ug/L			10/07/15 21:15	25
Bromodichloromethane	25	U	25	3.3	ug/L			10/07/15 21:15	25
cis-1,3-Dichloropropene	25	U	25	4.7	ug/L			10/07/15 21:15	25
4-Methyl-2-pentanone (MIBK)	130	U	130	13	ug/L			10/07/15 21:15	25
Toluene	25	U	25	3.8	ug/L			10/07/15 21:15	25
trans-1,3-Dichloropropene	25	U	25	3.7	ug/L			10/07/15 21:15	25
1,1,2-Trichloroethane	25	U	25	5.0	ug/L			10/07/15 21:15	25
Tetrachloroethene	**420**		25	3.7	ug/L			10/07/15 21:15	25
2-Hexanone	130	U ^c	130	4.0	ug/L			10/07/15 21:15	25
Dibromochloromethane	25	U	25	3.4	ug/L			10/07/15 21:15	25
1,2-Dibromoethane (EDB)	25	U	25	4.5	ug/L			10/07/15 21:15	25
Chlorobenzene	25	U	25	3.4	ug/L			10/07/15 21:15	25
1,1,1,2-Tetrachloroethane	25	U ^c	25	6.9	ug/L			10/07/15 21:15	25
Ethylbenzene	25	U	25	5.7	ug/L			10/07/15 21:15	25
Xylenes, Total	75	U	75	12	ug/L			10/07/15 21:15	25
Styrene	25	U ^c	25	2.4	ug/L			10/07/15 21:15	25
Bromoform	25	U ^c	25	4.8	ug/L			10/07/15 21:15	25
1,1,2,2-Tetrachloroethane	25	U	25	5.0	ug/L			10/07/15 21:15	25
Acrylonitrile	500	U ^c	500	14	ug/L			10/07/15 21:15	25
1,4-Dioxane	5000	U ^c	5000	860	ug/L			10/07/15 21:15	25

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*64 - 135*		*10/07/15 21:15*	*25*
Toluene-d8 (Surr)	*98*		*71 - 118*		*10/07/15 21:15*	*25*
4-Bromofluorobenzene (Surr)	*83*		*70 - 118*		*10/07/15 21:15*	*25*
Dibromofluoromethane (Surr)	*110*		*70 - 128*		*10/07/15 21:15*	*25*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Client Sample ID: HD-MW-87-0/1-0
Date Collected: 09/30/15 10:37
Date Received: 10/01/15 09:30

Lab Sample ID: 180-48309-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	9.7		1.9	0.049	ug/L		10/06/15 10:46	10/11/15 19:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*59*		*28 - 109*	*10/06/15 10:46*	*10/11/15 19:44*	*1*
2-Fluorophenol (Surr)	*50*		*20 - 105*	*10/06/15 10:46*	*10/11/15 19:44*	*1*
2,4,6-Tribromophenol (Surr)	*54*		*30 - 118*	*10/06/15 10:46*	*10/11/15 19:44*	*1*
Nitrobenzene-d5 (Surr)	*60*		*27 - 114*	*10/06/15 10:46*	*10/11/15 19:44*	*1*
Phenol-d5 (Surr)	*56*		*25 - 105*	*10/06/15 10:46*	*10/11/15 19:44*	*1*
Terphenyl-d14 (Surr)	*76*		*20 - 118*	*10/06/15 10:46*	*10/11/15 19:44*	*1*

Default Detection Limits

Client: Groundwater Sciences Corporation
Project/Site: Harley Davidson

TestAmerica Job ID: 180-48309-1

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	RL	MDL	Units	Method
1,1,1,2-Tetrachloroethane	1.0	0.28	ug/L	8260C
1,1,1-Trichloroethane	1.0	0.29	ug/L	8260C
1,1,2,2-Tetrachloroethane	1.0	0.20	ug/L	8260C
1,1,2-Trichloroethane	1.0	0.20	ug/L	8260C
1,1-Dichloroethane	1.0	0.12	ug/L	8260C
1,1-Dichloroethene	1.0	0.30	ug/L	8260C
1,2-Dibromoethane (EDB)	1.0	0.18	ug/L	8260C
1,2-Dichloroethane	1.0	0.21	ug/L	8260C
1,2-Dichloropropane	1.0	0.095	ug/L	8260C
1,4-Dioxane	200	34	ug/L	8260C
2-Butanone (MEK)	5.0	0.55	ug/L	8260C
2-Hexanone	5.0	0.16	ug/L	8260C
4-Methyl-2-pentanone (MIBK)	5.0	0.53	ug/L	8260C
Acetone	5.0	2.5	ug/L	8260C
Acrylonitrile	20	0.55	ug/L	8260C
Benzene	1.0	0.11	ug/L	8260C
Bromochloromethane	1.0	0.18	ug/L	8260C
Bromodichloromethane	1.0	0.13	ug/L	8260C
Bromoform	1.0	0.19	ug/L	8260C
Bromomethane	1.0	0.31	ug/L	8260C
Carbon disulfide	1.0	0.21	ug/L	8260C
Carbon tetrachloride	1.0	0.14	ug/L	8260C
Chlorobenzene	1.0	0.14	ug/L	8260C
Chloroethane	1.0	0.21	ug/L	8260C
Chloroform	1.0	0.17	ug/L	8260C
Chloromethane	1.0	0.28	ug/L	8260C
cis-1,2-Dichloroethene	1.0	0.24	ug/L	8260C
cis-1,3-Dichloropropene	1.0	0.19	ug/L	8260C
Dibromochloromethane	1.0	0.14	ug/L	8260C
Ethylbenzene	1.0	0.23	ug/L	8260C
Methyl tert-butyl ether	1.0	0.18	ug/L	8260C
Methylene Chloride	1.0	0.13	ug/L	8260C
Styrene	1.0	0.097	ug/L	8260C
Tetrachloroethene	1.0	0.15	ug/L	8260C
Toluene	1.0	0.15	ug/L	8260C
trans-1,2-Dichloroethene	1.0	0.17	ug/L	8260C
trans-1,3-Dichloropropene	1.0	0.15	ug/L	8260C
Trichloroethene	1.0	0.14	ug/L	8260C
Vinyl chloride	1.0	0.23	ug/L	8260C
Xylenes, Total	3.0	0.49	ug/L	8260C

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	RL	MDL	Units	Method
1,4-Dioxane	2.0	0.052	ug/L	8270D LL

Surrogate Summary

Client: Groundwater Sciences Corporation
Project/Site: Harley Davidson

TestAmerica Job ID: 180-48309-1

Method: 8260C - Volatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		12DCE	TOL	BFB	DBFM
Lab Sample ID	Client Sample ID	(64-135)	(71-118)	(70-118)	(70-128)
180-48309-1	HD-MW-87-0/1-0	91	93	91	102
180-48309-2	HD-MW-143S-0/1-0	104	104	87	107
180-48309-3	HD-MW-143D-0/1-0	106	101	86	104
180-48309-4	HD-MW-20M-0/1-0	108	108	91	106
180-48309-5	HD-MW-92-0/1-0	104	103	85	111
180-48309-5 - DL	HD-MW-92-0/1-0	95	89	88	101
180-48309-6 - DL	HD-MW-64D-0/1-0	106	98	83	110
180-48309-6	HD-MW-64D-0/1-0	100	87	86	112
180-48309-7	HD-QC12-0/1-2	105	109	91	106
LCS 180-156189/8	Lab Control Sample	98	106	91	98
LCS 180-156309/9	Lab Control Sample	90	102	96	103
MB 180-156189/5	Method Blank	101	102	86	101
MB 180-156309/6	Method Blank	90	91	92	100

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		FBP	2FP	TBP	NBZ	PHL	TPH
Lab Sample ID	Client Sample ID	(28-109)	(20-105)	(30-118)	(27-114)	(25-105)	(20-118)
180-48309-1	HD-MW-87-0/1-0	59	50	54	60	56	76
LCS 180-156027/2-A	Lab Control Sample	66	67	73	68	67	78
MB 180-156027/1-A	Method Blank	60	64	58	62	64	71

Surrogate Legend

FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol (Surr)
TBP = 2,4,6-Tribromophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPH = Terphenyl-d14 (Surr)

Method: 8260C - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 180-156189/5
Matrix: Water
Analysis Batch: 156189

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	1.0	U	1.0	0.28	ug/L			10/07/15 14:07	1
Vinyl chloride	1.0	U	1.0	0.23	ug/L			10/07/15 14:07	1
Bromomethane	1.0	U	1.0	0.31	ug/L			10/07/15 14:07	1
Chloroethane	1.0	U	1.0	0.21	ug/L			10/07/15 14:07	1
1,1-Dichloroethene	1.0	U	1.0	0.30	ug/L			10/07/15 14:07	1
Acetone	5.0	U	5.0	2.5	ug/L			10/07/15 14:07	1
Carbon disulfide	1.0	U	1.0	0.21	ug/L			10/07/15 14:07	1
Methylene Chloride	1.0	U	1.0	0.13	ug/L			10/07/15 14:07	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.17	ug/L			10/07/15 14:07	1
Methyl tert-butyl ether	1.0	U	1.0	0.18	ug/L			10/07/15 14:07	1
1,1-Dichloroethane	1.0	U	1.0	0.12	ug/L			10/07/15 14:07	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			10/07/15 14:07	1
Bromochloromethane	1.0	U	1.0	0.18	ug/L			10/07/15 14:07	1
2-Butanone (MEK)	5.0	U	5.0	0.55	ug/L			10/07/15 14:07	1
Chloroform	1.0	U	1.0	0.17	ug/L			10/07/15 14:07	1
1,1,1-Trichloroethane	1.0	U	1.0	0.29	ug/L			10/07/15 14:07	1
Carbon tetrachloride	1.0	U	1.0	0.14	ug/L			10/07/15 14:07	1
Benzene	1.0	U	1.0	0.11	ug/L			10/07/15 14:07	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			10/07/15 14:07	1
Trichloroethene	1.0	U	1.0	0.14	ug/L			10/07/15 14:07	1
1,2-Dichloropropane	1.0	U	1.0	0.095	ug/L			10/07/15 14:07	1
Bromodichloromethane	1.0	U	1.0	0.13	ug/L			10/07/15 14:07	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.19	ug/L			10/07/15 14:07	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	0.53	ug/L			10/07/15 14:07	1
Toluene	1.0	U	1.0	0.15	ug/L			10/07/15 14:07	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.15	ug/L			10/07/15 14:07	1
1,1,2-Trichloroethane	1.0	U	1.0	0.20	ug/L			10/07/15 14:07	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			10/07/15 14:07	1
2-Hexanone	5.0	U	5.0	0.16	ug/L			10/07/15 14:07	1
Dibromochloromethane	1.0	U	1.0	0.14	ug/L			10/07/15 14:07	1
1,2-Dibromoethane (EDB)	1.0	U	1.0	0.18	ug/L			10/07/15 14:07	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			10/07/15 14:07	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.28	ug/L			10/07/15 14:07	1
Ethylbenzene	1.0	U	1.0	0.23	ug/L			10/07/15 14:07	1
Xylenes, Total	3.0	U	3.0	0.49	ug/L			10/07/15 14:07	1
Styrene	1.0	U	1.0	0.097	ug/L			10/07/15 14:07	1
Bromoform	1.0	U	1.0	0.19	ug/L			10/07/15 14:07	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.20	ug/L			10/07/15 14:07	1
Acrylonitrile	20	U	20	0.55	ug/L			10/07/15 14:07	1
1,4-Dioxane	200	U	200	34	ug/L			10/07/15 14:07	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*64 - 135*		*10/07/15 14:07*	*1*
Toluene-d8 (Surr)	*102*		*71 - 118*		*10/07/15 14:07*	*1*
4-Bromofluorobenzene (Surr)	*86*		*70 - 118*		*10/07/15 14:07*	*1*
Dibromofluoromethane (Surr)	*101*		*70 - 128*		*10/07/15 14:07*	*1*

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 180-156189/8
Matrix: Water
Analysis Batch: 156189

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloromethane	10.0	11.3		ug/L		113	50 - 139
Vinyl chloride	10.0	9.97		ug/L		100	53 - 138
Bromomethane	10.0	8.04		ug/L		80	33 - 150
Chloroethane	10.0	8.97		ug/L		90	36 - 142
1,1-Dichloroethene	10.0	8.60		ug/L		86	65 - 136
Acetone	20.0	20.8		ug/L		104	22 - 150
Carbon disulfide	10.0	8.38		ug/L		84	54 - 132
Methylene Chloride	10.0	8.72		ug/L		87	63 - 129
trans-1,2-Dichloroethene	10.0	8.87		ug/L		89	73 - 126
Methyl tert-butyl ether	10.0	8.96		ug/L		90	64 - 123
1,1-Dichloroethane	10.0	9.57		ug/L		96	73 - 126
cis-1,2-Dichloroethene	10.0	8.99		ug/L		90	70 - 120
Bromochloromethane	10.0	10.0		ug/L		100	70 - 127
2-Butanone (MEK)	20.0	24.0		ug/L		120	39 - 138
Chloroform	10.0	8.87		ug/L		89	72 - 127
1,1,1-Trichloroethane	10.0	8.02		ug/L		80	63 - 133
Carbon tetrachloride	10.0	8.84		ug/L		88	55 - 150
Benzene	10.0	9.97		ug/L		100	80 - 120
1,2-Dichloroethane	10.0	9.18		ug/L		92	68 - 132
Trichloroethene	10.0	10.4		ug/L		104	73 - 120
1,2-Dichloropropane	10.0	10.7		ug/L		107	76 - 124
Bromodichloromethane	10.0	9.15		ug/L		92	66 - 130
cis-1,3-Dichloropropene	10.0	9.63		ug/L		96	66 - 120
4-Methyl-2-pentanone (MIBK)	20.0	20.8		ug/L		104	45 - 145
Toluene	10.0	10.1		ug/L		101	80 - 123
trans-1,3-Dichloropropene	10.0	8.94		ug/L		89	65 - 125
1,1,2-Trichloroethane	10.0	9.90		ug/L		99	77 - 127
Tetrachloroethene	10.0	10.2		ug/L		102	70 - 135
2-Hexanone	20.0	20.7		ug/L		103	25 - 132
Dibromochloromethane	10.0	9.99		ug/L		100	60 - 140
1,2-Dibromoethane (EDB)	10.0	10.2		ug/L		102	74 - 123
Chlorobenzene	10.0	10.2		ug/L		102	80 - 120
1,1,1,2-Tetrachloroethane	10.0	10.2		ug/L		102	63 - 140
Ethylbenzene	10.0	9.50		ug/L		95	72 - 126
Xylenes, Total	20.0	19.1		ug/L		95	76 - 128
Styrene	10.0	10.5		ug/L		105	71 - 127
Bromoform	10.0	10.8		ug/L		108	46 - 150
1,1,2,2-Tetrachloroethane	10.0	9.90		ug/L		99	62 - 125
Acrylonitrile	100	125		ug/L		125	30 - 140
1,4-Dioxane	200	223		ug/L		111	10 - 160

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*64 - 135*
Toluene-d8 (Surr)	*106*		*71 - 118*
4-Bromofluorobenzene (Surr)	*91*		*70 - 118*
Dibromofluoromethane (Surr)	*98*		*70 - 128*

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 180-156309/6
Matrix: Water
Analysis Batch: 156309

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	1.0	U	1.0	0.28	ug/L			10/08/15 13:21	1
Vinyl chloride	1.0	U	1.0	0.23	ug/L			10/08/15 13:21	1
Bromomethane	1.0	U	1.0	0.31	ug/L			10/08/15 13:21	1
Chloroethane	1.0	U	1.0	0.21	ug/L			10/08/15 13:21	1
1,1-Dichloroethene	1.0	U	1.0	0.30	ug/L			10/08/15 13:21	1
Acetone	5.0	U	5.0	2.5	ug/L			10/08/15 13:21	1
Carbon disulfide	1.0	U	1.0	0.21	ug/L			10/08/15 13:21	1
Methylene Chloride	1.0	U	1.0	0.13	ug/L			10/08/15 13:21	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.17	ug/L			10/08/15 13:21	1
Methyl tert-butyl ether	1.0	U	1.0	0.18	ug/L			10/08/15 13:21	1
1,1-Dichloroethane	1.0	U	1.0	0.12	ug/L			10/08/15 13:21	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			10/08/15 13:21	1
Bromochloromethane	1.0	U	1.0	0.18	ug/L			10/08/15 13:21	1
2-Butanone (MEK)	5.0	U	5.0	0.55	ug/L			10/08/15 13:21	1
Chloroform	1.0	U	1.0	0.17	ug/L			10/08/15 13:21	1
1,1,1-Trichloroethane	1.0	U	1.0	0.29	ug/L			10/08/15 13:21	1
Carbon tetrachloride	1.0	U	1.0	0.14	ug/L			10/08/15 13:21	1
Benzene	1.0	U	1.0	0.11	ug/L			10/08/15 13:21	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			10/08/15 13:21	1
Trichloroethene	1.0	U	1.0	0.14	ug/L			10/08/15 13:21	1
1,2-Dichloropropane	1.0	U	1.0	0.095	ug/L			10/08/15 13:21	1
Bromodichloromethane	1.0	U	1.0	0.13	ug/L			10/08/15 13:21	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.19	ug/L			10/08/15 13:21	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	0.53	ug/L			10/08/15 13:21	1
Toluene	1.0	U	1.0	0.15	ug/L			10/08/15 13:21	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.15	ug/L			10/08/15 13:21	1
1,1,2-Trichloroethane	1.0	U	1.0	0.20	ug/L			10/08/15 13:21	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			10/08/15 13:21	1
2-Hexanone	5.0	U	5.0	0.16	ug/L			10/08/15 13:21	1
Dibromochloromethane	1.0	U	1.0	0.14	ug/L			10/08/15 13:21	1
1,2-Dibromoethane (EDB)	1.0	U	1.0	0.18	ug/L			10/08/15 13:21	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			10/08/15 13:21	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.28	ug/L			10/08/15 13:21	1
Ethylbenzene	1.0	U	1.0	0.23	ug/L			10/08/15 13:21	1
Xylenes, Total	3.0	U	3.0	0.49	ug/L			10/08/15 13:21	1
Styrene	1.0	U	1.0	0.097	ug/L			10/08/15 13:21	1
Bromoform	1.0	U	1.0	0.19	ug/L			10/08/15 13:21	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.20	ug/L			10/08/15 13:21	1
Acrylonitrile	20	U	20	0.55	ug/L			10/08/15 13:21	1
1,4-Dioxane	200	U	200	34	ug/L			10/08/15 13:21	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*90*		*64 - 135*		*10/08/15 13:21*	*1*
Toluene-d8 (Surr)	*91*		*71 - 118*		*10/08/15 13:21*	*1*
4-Bromofluorobenzene (Surr)	*92*		*70 - 118*		*10/08/15 13:21*	*1*
Dibromofluoromethane (Surr)	*100*		*70 - 128*		*10/08/15 13:21*	*1*

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 180-156309/9
Matrix: Water
Analysis Batch: 156309

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloromethane	10.0	9.02		ug/L		90	50 - 139
Vinyl chloride	10.0	7.57		ug/L		76	53 - 138
Bromomethane	10.0	8.60		ug/L		86	33 - 150
Chloroethane	10.0	6.91		ug/L		69	36 - 142
1,1-Dichloroethene	10.0	9.25		ug/L		92	65 - 136
Acetone	20.0	20.6		ug/L		103	22 - 150
Carbon disulfide	10.0	8.90		ug/L		89	54 - 132
Methylene Chloride	10.0	9.77		ug/L		98	63 - 129
trans-1,2-Dichloroethene	10.0	9.37		ug/L		94	73 - 126
Methyl tert-butyl ether	10.0	9.47		ug/L		95	64 - 123
1,1-Dichloroethane	10.0	8.74		ug/L		87	73 - 126
cis-1,2-Dichloroethene	10.0	9.22		ug/L		92	70 - 120
Bromochloromethane	10.0	10.7		ug/L		107	70 - 127
2-Butanone (MEK)	20.0	21.8		ug/L		109	39 - 138
Chloroform	10.0	9.19		ug/L		92	72 - 127
1,1,1-Trichloroethane	10.0	9.09		ug/L		91	63 - 133
Carbon tetrachloride	10.0	9.75		ug/L		97	55 - 150
Benzene	10.0	9.47		ug/L		95	80 - 120
1,2-Dichloroethane	10.0	8.97		ug/L		90	68 - 132
Trichloroethene	10.0	10.3		ug/L		103	73 - 120
1,2-Dichloropropane	10.0	9.63		ug/L		96	76 - 124
Bromodichloromethane	10.0	9.29		ug/L		93	66 - 130
cis-1,3-Dichloropropene	10.0	8.92		ug/L		89	66 - 120
4-Methyl-2-pentanone (MIBK)	20.0	19.5		ug/L		98	45 - 145
Toluene	10.0	10.0		ug/L		100	80 - 123
trans-1,3-Dichloropropene	10.0	8.85		ug/L		89	65 - 125
1,1,2-Trichloroethane	10.0	10.1		ug/L		101	77 - 127
Tetrachloroethene	10.0	10.7		ug/L		107	70 - 135
2-Hexanone	20.0	18.9		ug/L		95	25 - 132
Dibromochloromethane	10.0	10.7		ug/L		107	60 - 140
1,2-Dibromoethane (EDB)	10.0	10.5		ug/L		105	74 - 123
Chlorobenzene	10.0	10.4		ug/L		104	80 - 120
1,1,1,2-Tetrachloroethane	10.0	10.2		ug/L		102	63 - 140
Ethylbenzene	10.0	10.2		ug/L		102	72 - 126
Xylenes, Total	20.0	21.0		ug/L		105	76 - 128
Styrene	10.0	11.1		ug/L		111	71 - 127
Bromoform	10.0	11.0		ug/L		110	46 - 150
1,1,2,2-Tetrachloroethane	10.0	10.2		ug/L		102	62 - 125
Acrylonitrile	100	102		ug/L		102	30 - 140
1,4-Dioxane	200	258		ug/L		129	10 - 160

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*90*		*64 - 135*
Toluene-d8 (Surr)	*102*		*71 - 118*
4-Bromofluorobenzene (Surr)	*96*		*70 - 118*
Dibromofluoromethane (Surr)	*103*		*70 - 128*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Lab Sample ID: MB 180-156027/1-A
Matrix: Water
Analysis Batch: 156466

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 156027

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		2.0	0.052	ug/L		10/06/15 10:44	10/09/15 09:46	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*60*		*28 - 109*	*10/06/15 10:44*	*10/09/15 09:46*	*1*
2-Fluorophenol (Surr)	*64*		*20 - 105*	*10/06/15 10:44*	*10/09/15 09:46*	*1*
2,4,6-Tribromophenol (Surr)	*58*		*30 - 118*	*10/06/15 10:44*	*10/09/15 09:46*	*1*
Nitrobenzene-d5 (Surr)	*62*		*27 - 114*	*10/06/15 10:44*	*10/09/15 09:46*	*1*
Phenol-d5 (Surr)	*64*		*25 - 105*	*10/06/15 10:44*	*10/09/15 09:46*	*1*
Terphenyl-d14 (Surr)	*71*		*20 - 118*	*10/06/15 10:44*	*10/09/15 09:46*	*1*

Lab Sample ID: LCS 180-156027/2-A
Matrix: Water
Analysis Batch: 156466

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 156027

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,4-Dioxane			20.0	14.4		ug/L		72	36 - 100		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*66*		*28 - 109*
2-Fluorophenol (Surr)	*67*		*20 - 105*
2,4,6-Tribromophenol (Surr)	*73*		*30 - 118*
Nitrobenzene-d5 (Surr)	*68*		*27 - 114*
Phenol-d5 (Surr)	*67*		*25 - 105*
Terphenyl-d14 (Surr)	*78*		*20 - 118*

GC/MS VOA

Analysis Batch: 156189

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-48309-2	HD-MW-143S-0/1-0	Total/NA	Water	8260C	
180-48309-3	HD-MW-143D-0/1-0	Total/NA	Water	8260C	
180-48309-4	HD-MW-20M-0/1-0	Total/NA	Water	8260C	
180-48309-5	HD-MW-92-0/1-0	Total/NA	Water	8260C	
180-48309-6 - DL	HD-MW-64D-0/1-0	Total/NA	Water	8260C	
180-48309-7	HD-QC12-0/1-2	Total/NA	Water	8260C	
LCS 180-156189/8	Lab Control Sample	Total/NA	Water	8260C	
MB 180-156189/5	Method Blank	Total/NA	Water	8260C	

Analysis Batch: 156309

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-48309-1	HD-MW-87-0/1-0	Total/NA	Water	8260C	
180-48309-5 - DL	HD-MW-92-0/1-0	Total/NA	Water	8260C	
180-48309-6	HD-MW-64D-0/1-0	Total/NA	Water	8260C	
LCS 180-156309/9	Lab Control Sample	Total/NA	Water	8260C	
MB 180-156309/6	Method Blank	Total/NA	Water	8260C	

GC/MS Semi VOA

Prep Batch: 156027

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-48309-1	HD-MW-87-0/1-0	Total/NA	Water	3520C	
LCS 180-156027/2-A	Lab Control Sample	Total/NA	Water	3520C	
MB 180-156027/1-A	Method Blank	Total/NA	Water	3520C	

Analysis Batch: 156466

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 180-156027/2-A	Lab Control Sample	Total/NA	Water	8270D LL	156027
MB 180-156027/1-A	Method Blank	Total/NA	Water	8270D LL	156027

Analysis Batch: 156605

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-48309-1	HD-MW-87-0/1-0	Total/NA	Water	8270D LL	156027

Client Sample ID: HD-MW-87-0/1-0
Date Collected: 09/30/15 10:37
Date Received: 10/01/15 09:30

Lab Sample ID: 180-48309-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		12.5	5 mL	5 mL	156309	10/08/15 16:24	DLF	TAL PIT
	Instrument ID: CHHP5									
Total/NA	Prep	3520C			270 mL	0.25 mL	156027	10/06/15 10:46	BJT	TAL PIT
Total/NA	Analysis	8270D LL		1	270 mL	0.25 mL	156605	10/11/15 19:44	VVP	TAL PIT
	Instrument ID: CH731									

Client Sample ID: HD-MW-143S-0/1-0
Date Collected: 09/30/15 14:02
Date Received: 10/01/15 09:30

Lab Sample ID: 180-48309-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	156189	10/07/15 20:03	DLF	TAL PIT
	Instrument ID: CHHP6									

Client Sample ID: HD-MW-143D-0/1-0
Date Collected: 09/30/15 12:42
Date Received: 10/01/15 09:30

Lab Sample ID: 180-48309-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	156189	10/07/15 20:27	DLF	TAL PIT
	Instrument ID: CHHP6									

Client Sample ID: HD-MW-20M-0/1-0
Date Collected: 09/30/15 08:45
Date Received: 10/01/15 09:30

Lab Sample ID: 180-48309-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	156189	10/07/15 20:51	DLF	TAL PIT
	Instrument ID: CHHP6									

Client Sample ID: HD-MW-92-0/1-0
Date Collected: 09/30/15 08:25
Date Received: 10/01/15 09:30

Lab Sample ID: 180-48309-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C	DL	10	5 mL	5 mL	156309	10/08/15 16:48	DLF	TAL PIT
	Instrument ID: CHHP5									
Total/NA	Analysis	8260C		1	5 mL	5 mL	156189	10/07/15 23:42	DLF	TAL PIT
	Instrument ID: CHHP6									

Client Sample ID: HD-MW-64D-0/1-0

Lab Sample ID: 180-48309-6

Date Collected: 09/30/15 12:40

Matrix: Water

Date Received: 10/01/15 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		2.5	5 mL	5 mL	156309	10/08/15 22:50	DLF	TAL PIT
	Instrument ID: CHHP5									
Total/NA	Analysis	8260C	DL	25	5 mL	5 mL	156189	10/07/15 21:15	DLF	TAL PIT
	Instrument ID: CHHP6									

Client Sample ID: HD-QC12-0/1-2

Lab Sample ID: 180-48309-7

Date Collected: 09/30/15 12:00

Matrix: Water

Date Received: 10/01/15 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	156189	10/07/15 19:39	DLF	TAL PIT
	Instrument ID: CHHP6									

Laboratory References:

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Analyst References:

Lab: TAL PIT

Batch Type: Prep

BJT = Bill Trout

Batch Type: Analysis

DLF = Donald Ferguson

VVP = Vincent Piccolino

Certification Summary

Client: Groundwater Sciences Corporation
Project/Site: Harley Davidson

TestAmerica Job ID: 180-48309-1

Laboratory: TestAmerica Pittsburgh

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Pennsylvania	NELAP	3	02-00416	04-30-16

Method Summary

Client: Groundwater Sciences Corporation
Project/Site: Harley Davidson

TestAmerica Job ID: 180-48309-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds (GC/MS)	SW846	TAL PIT
8270D LL	Semivolatile Organic Compounds by GC/MS - Low Level	SW846	TAL PIT

Protocol References:

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

Laboratory References:

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Sample Summary

Client: Groundwater Sciences Corporation
Project/Site: Harley Davidson

TestAmerica Job ID: 180-48309-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-48309-1	HD-MW-87-0/1-0	Water	09/30/15 10:37	10/01/15 09:30
180-48309-2	HD-MW-143S-0/1-0	Water	09/30/15 14:02	10/01/15 09:30
180-48309-3	HD-MW-143D-0/1-0	Water	09/30/15 12:42	10/01/15 09:30
180-48309-4	HD-MW-20M-0/1-0	Water	09/30/15 08:45	10/01/15 09:30
180-48309-5	HD-MW-92-0/1-0	Water	09/30/15 08:25	10/01/15 09:30
180-48309-6	HD-MW-64D-0/1-0	Water	09/30/15 12:40	10/01/15 09:30
180-48309-7	HD-QC12-0/1-2	Water	09/30/15 12:00	10/01/15 09:30

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48309-1

SDG No.:

Instrument ID: CHHP5 Analysis Batch Number: 151868

Lab Sample ID: IC 180-151868/6 Client Sample ID:

Date Analyzed: 08/26/15 15:04 Lab File ID: 50826006.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Trichlorofluoromethane	2.65	Incomplete Integration	fergusond	08/27/15 10:07
Acetone	3.45	Peak Tail	fergusond	08/27/15 10:07

Lab Sample ID: IC 180-151868/12 Client Sample ID:

Date Analyzed: 08/26/15 17:04 Lab File ID: 50826012.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	8.03	Incomplete Integration	fergusond	08/27/15 10:34

Lab Sample ID: IC 180-151868/14 Client Sample ID:

Date Analyzed: 08/26/15 17:52 Lab File ID: 50826014.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Trichlorofluoromethane	2.70	Incomplete Integration	fergusond	08/27/15 10:43

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48309-1

SDG No.:

Instrument ID: CHHP5 Analysis Batch Number: 156309

Lab Sample ID: CCVIS 180-156309/5 Client Sample ID:

Date Analyzed: 10/08/15 12:33 Lab File ID: 51008005.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	8.03	Incomplete Integration	fergusond	10/08/15 13:09

Lab Sample ID: 180-48309-1 Client Sample ID: HD-MW-87-0/1-0

Date Analyzed: 10/08/15 16:24 Lab File ID: 51008013.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloroform	6.38	Incomplete Integration	fergusond	10/09/15 08:29

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48309-1

SDG No.:

Instrument ID: CHHP6 Analysis Batch Number: 149469

Lab Sample ID: IC 180-149469/4 Client Sample ID:

Date Analyzed: 07/31/15 14:00 Lab File ID: 60731004.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Bromomethane	2.23	Incomplete Integration	fergusond	08/03/15 10:46
1,4-Dioxane	8.03	Incomplete Integration	fergusond	08/03/15 10:46

Lab Sample ID: ICIS 180-149469/5 Client Sample ID:

Date Analyzed: 07/31/15 14:24 Lab File ID: 60731005.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	8.03	Peak Tail	fergusond	08/03/15 10:47

Lab Sample ID: IC 180-149469/7 Client Sample ID:

Date Analyzed: 07/31/15 15:13 Lab File ID: 60731007.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	8.03	Peak Tail	fergusond	08/03/15 10:27

Lab Sample ID: IC 180-149469/8 Client Sample ID:

Date Analyzed: 07/31/15 15:37 Lab File ID: 60731008.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	8.03	Peak Tail	fergusond	08/03/15 10:13

Lab Sample ID: IC 180-149469/9 Client Sample ID:

Date Analyzed: 07/31/15 16:01 Lab File ID: 60731009.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	8.03	Peak Tail	fergusond	08/03/15 10:06

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48309-1

SDG No.:

Instrument ID: CHHP6 Analysis Batch Number: 149469

Lab Sample ID: IC 180-149469/10 Client Sample ID:

Date Analyzed: 07/31/15 16:25 Lab File ID: 60731010.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	8.03	Peak Tail	fergusond	08/03/15 10:08

Lab Sample ID: IC 180-149469/14 Client Sample ID:

Date Analyzed: 07/31/15 18:02 Lab File ID: 60731014.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Trichlorofluoromethane	2.68	Poor chromatography	fergusond	08/03/15 11:05
Acetone	3.42	Poor chromatography	fergusond	08/03/15 11:05
Acrylonitrile	4.51	Poor chromatography	fergusond	08/03/15 11:05
1,1,1-Trichloroethane	6.55	Poor chromatography	fergusond	08/03/15 11:05
Isobutyl alcohol	6.90	Poor chromatography	fergusond	08/03/15 11:05

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48309-1

SDG No.:

Instrument ID: CHHP6 Analysis Batch Number: 156189

Lab Sample ID: LCS 180-156189/8 Client Sample ID:

Date Analyzed: 10/07/15 15:36 Lab File ID: 61007008.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	8.03	Incomplete Integration	fergusond	10/07/15 15:59

Lab Sample ID: 180-48309-7 Client Sample ID: HD-QC12-0/1-2

Date Analyzed: 10/07/15 19:39 Lab File ID: 61007018.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloromethane	1.77	Incomplete Integration	fergusond	10/08/15 08:52

Lab Sample ID: 180-48309-2 Client Sample ID: HD-MW-143S-0/1-0

Date Analyzed: 10/07/15 20:03 Lab File ID: 61007019.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloromethane	1.76	Incomplete Integration	fergusond	10/08/15 08:53

Lab Sample ID: 180-48309-3 Client Sample ID: HD-MW-143D-0/1-0

Date Analyzed: 10/07/15 20:27 Lab File ID: 61007020.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Trichloroethene	7.67	Incomplete Integration	fergusond	10/08/15 08:54

Lab Sample ID: 180-48309-4 Client Sample ID: HD-MW-20M-0/1-0

Date Analyzed: 10/07/15 20:51 Lab File ID: 61007021.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloromethane	1.76	Incomplete Integration	fergusond	10/08/15 08:55

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48309-1

SDG No.:

Instrument ID: CHHP6 Analysis Batch Number: 156189

Lab Sample ID: 180-48309-5 Client Sample ID: HD-MW-92-0/1-0

Date Analyzed: 10/07/15 23:42 Lab File ID: 61007028.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloromethane	1.76	Incomplete Integration	fergusond	10/08/15 09:01
cis-1,2-Dichloroethene	5.94	Incomplete Integration	fergusond	10/08/15 09:01

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48309-1

SDG No.:

Instrument ID: CH731 Analysis Batch Number: 152241

Lab Sample ID: IC 180-152241/3 Client Sample ID:

Date Analyzed: 08/31/15 13:40 Lab File ID: V0901003.D GC Column: Rxi-5SilMS ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	1.43	Poor chromatography	piccolinov	09/01/15 04:09
N-Nitrosodimethylamine	2.08	Poor chromatography	piccolinov	09/01/15 04:09
Pyridine	2.17	Poor chromatography	piccolinov	09/01/15 04:09
Benzoic acid	7.21	Poor chromatography	piccolinov	09/01/15 04:09
Benzidine	11.96	Poor chromatography	piccolinov	09/01/15 04:09
Bis(2-ethylhexyl) phthalate	14.04	Poor chromatography	piccolinov	09/01/15 04:09
Di-n-octyl phthalate	15.36	Poor chromatography	piccolinov	09/01/15 04:09
7,12-Dimethylbenz(a)anthracene	16.20	Poor chromatography	piccolinov	09/01/15 04:09
Benzo[e]pyrene	16.80	Poor chromatography	piccolinov	09/01/15 04:09
Dibenz(a,h)anthracene	19.31	Poor chromatography	piccolinov	09/01/15 04:09
Benzo[g,h,i]perylene	19.89	Poor chromatography	piccolinov	09/01/15 04:09

Lab Sample ID: IC 180-152241/4 Client Sample ID:

Date Analyzed: 08/31/15 14:08 Lab File ID: V0901004.D GC Column: Rxi-5SilMS ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzoic acid	7.21	Poor chromatography	piccolinov	09/01/15 04:10

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48309-1

SDG No.:

Instrument ID: CH731 Analysis Batch Number: 152241

Lab Sample ID: IC 180-152241/5 Client Sample ID:

Date Analyzed: 08/31/15 14:36 Lab File ID: V0901005.D GC Column: Rxi-5SilMS ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzoic acid	7.19	Poor chromatography	piccolino v	09/01/15 04:11

Lab Sample ID: ICIS 180-152241/6 Client Sample ID:

Date Analyzed: 08/31/15 15:03 Lab File ID: V0901006.D GC Column: Rxi-5SilMS ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzoic acid	7.20	Poor chromatography	piccolino v	09/01/15 04:12

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48309-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
OPLVISPKMIX1i_00044	03/23/16	09/23/15	Methanol, Lot 0000082533	100 mL	SVLVstd1_00036	20 mL	1,1'-Biphenyl	200 ug/mL
							1,2,4,5-Tetrachlorobenzene	200 ug/mL
							1,2,4-Trichlorobenzene	200 ug/mL
							1,2-Dichlorobenzene	200 ug/mL
							1,2-Diphenylhydrazine	200 ug/mL
							1,3-Dichlorobenzene	200 ug/mL
							1,3-Dinitrobenzene	200 ug/mL
							1,4-Dichlorobenzene	200 ug/mL
							1,4-Dioxane	200 ug/mL
							1-Methylnaphthalene	200 ug/mL
							2,2'-oxybis[1-chloropropane]	200 ug/mL
							2,3,4,6-Tetrachlorophenol	200 ug/mL
							2,4,5-Trichlorophenol	200 ug/mL
							2,4,6-Trichlorophenol	200 ug/mL
							2,4-Dichlorophenol	200 ug/mL
							2,4-Dimethylphenol	200 ug/mL
							2,4-Dinitrophenol	400 ug/mL
							2,4-Dinitrotoluene	200 ug/mL
							2,6-Dichlorophenol	200 ug/mL
							2,6-Dinitrotoluene	200 ug/mL
							2-Chloronaphthalene	200 ug/mL
							2-Chlorophenol	200 ug/mL
							2-Methylnaphthalene	200 ug/mL
							2-Methylphenol	200 ug/mL
							2-Nitroaniline	200 ug/mL
							2-Nitrophenol	200 ug/mL
							3 & 4 Methylphenol	200 ug/mL
							3-Nitroaniline	200 ug/mL
							4,6-Dinitro-2-methylphenol	400 ug/mL
							4-Bromophenyl phenyl ether	200 ug/mL
							4-Chloro-3-methylphenol	200 ug/mL
							4-Chloroaniline	200 ug/mL
							4-Chlorophenyl phenyl ether	200 ug/mL
							4-Methylphenol	200 ug/mL
							4-Nitroaniline	200 ug/mL
							4-Nitrophenol	400 ug/mL
							Acenaphthene	200 ug/mL
							Acenaphthylene	200 ug/mL
							Acetophenone	200 ug/mL
							Aniline	200 ug/mL
							Anthracene	200 ug/mL
							Azobenzene	200 ug/mL
							Benzo[a]anthracene	200 ug/mL
							Benzo[a]pyrene	200 ug/mL
							Benzo[b]fluoranthene	200 ug/mL
							Benzo[g,h,i]perylene	200 ug/mL
							Benzo[k]fluoranthene	200 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48309-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzyl alcohol	200 ug/mL
							Bis(2-chloroethoxy)methane	200 ug/mL
							Bis(2-chloroethyl)ether	200 ug/mL
							Bis(2-ethylhexyl) phthalate	200 ug/mL
							Butyl benzyl phthalate	200 ug/mL
							Carbazole	200 ug/mL
							Chrysene	200 ug/mL
							Di-n-butyl phthalate	200 ug/mL
							Di-n-octyl phthalate	200 ug/mL
							Dibenz(a,h)anthracene	200 ug/mL
							Dibenzofuran	200 ug/mL
							Diethyl phthalate	200 ug/mL
							Dimethyl phthalate	200 ug/mL
							Fluoranthene	200 ug/mL
							Fluorene	200 ug/mL
							Hexachlorobenzene	200 ug/mL
							Hexachlorobutadiene	200 ug/mL
							Hexachlorocyclopentadiene	200 ug/mL
							Hexachloroethane	200 ug/mL
							Hexadecane	200 ug/mL
							Indeno[1,2,3-cd]pyrene	200 ug/mL
							Isophorone	200 ug/mL
							Methyl Phenols,Total	400 ug/mL
							n-Decane	200 ug/mL
							N-Nitrosodi-n-propylamine	200 ug/mL
							N-Nitrosodimethylamine	200 ug/mL
							N-Nitrosodiphenylamine	400 ug/mL
							n-Octadecane	200 ug/mL
							Naphthalene	200 ug/mL
							Nitrobenzene	200 ug/mL
							Pentachlorophenol	400 ug/mL
							Phenanthrene	200 ug/mL
							Phenol	200 ug/mL
							Pyrene	200 ug/mL
							Pyridine	200 ug/mL
							Total Cresols	400 ug/mL
					SVLVstd10_00001	10 mL	Benzoic acid	200 ug/mL
							Indene	200 ug/mL
					SVLVstd11_00001	10 mL	Atrazine	200 ug/mL
							Benzaldehyde	200 ug/mL
							Caprolactam	200 ug/mL
					SVLVstd9_00001	10 mL	3,3'-Dichlorobenzidine	200 ug/mL
							Benzidine	200 ug/mL
.SVLVstd1_00036	09/30/16		Restek, Lot A0109703		(Purchased Reagent)		1,1'-Biphenyl	1000 ug/mL
							1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48309-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2,2'-oxybis[1-chloropropane]	1000 ug/mL
							2,3,4,6-Tetrachlorophenol	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dichlorophenol	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3 & 4 Methylphenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Methylphenol	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Azobenzene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48309-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Hexadecane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							Methyl Phenols,Total	2000 ug/mL
							n-Decane	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							N-Nitrosodiphenylamine	2000 ug/mL
							n-Octadecane	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	1000 ug/mL
							Total Cresols	2000 ug/mL
.SVLVstd10_00001	06/30/16		Restek, Lot A0107943		(Purchased Reagent)		Benzoic acid	2000 ug/mL
							Indene	2000 ug/mL
.SVLVstd11_00001	06/30/16		Restek, Lot A0108035		(Purchased Reagent)		Atrazine	2000 ug/mL
							Benzaldehyde	2000 ug/mL
							Caprolactam	2000 ug/mL
.SVLVstd9_00001	07/31/16		Restek, Lot A0108709		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Benzidine	2000 ug/mL
OPQL8270SURi_00034	03/09/16	09/09/15	Methanol, Lot b#0000049909	500 mL	SVLVSURRSPK_00011	20 mL	2,4,6-Tribromophenol (Surr)	200 ug/mL
							2-Fluorobiphenyl	200 ug/mL
							2-Fluorophenol (Surr)	200 ug/mL
							Nitrobenzene-d5 (Surr)	200 ug/mL
							Phenol-d5 (Surr)	200 ug/mL
							Terphenyl-d14 (Surr)	200 ug/mL
.SVLVSURRSPK_00011	05/31/19		Restek, Lot A0103615		(Purchased Reagent)		2,4,6-Tribromophenol (Surr)	5000 ug/mL
							2-Fluorobiphenyl	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48309-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Phenol-d5 (Surr)	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL
SVTAPITINTRNi_00009	09/09/16	09/09/15	MeCl2, Lot 1417620	25 mL	SVLVIntstd_00003	5 mL	1,4-Dichlorobenzene-d4	400 ug/mL
							Acenaphthene-d10	400 ug/mL
							Chrysene-d12	400 ug/mL
							Naphthalene-d8	400 ug/mL
							Perylene-d12	400 ug/mL
							Phenanthrene-d10	400 ug/mL
.SVLVIntstd_00003	02/28/18		Restek, Lot A093676		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
SVTAPSTD0.4i_00009	11/07/15	04/23/15	MeCl2, Lot 1417620	1 mL	SVTAPITINTRNi_00007	10 uL	1,4-Dichlorobenzene-d4	4 ug/mL
							Acenaphthene-d10	4 ug/mL
							Chrysene-d12	4 ug/mL
							Naphthalene-d8	4 ug/mL
							Perylene-d12	4 ug/mL
							Phenanthrene-d10	4 ug/mL
					SVTAPITSTCKi_00006	5 uL	Benzo[e]pyrene	0.2 ug/mL
							2,3,5,6-Tetrachlorophenol	0.2 ug/mL
							2-Naphthylamine	0.2 ug/mL
							7,12-Dimethylbenz(a)anthracene	0.2 ug/mL
							1,1'-Biphenyl	0.2 ug/mL
							1,2,4,5-Tetrachlorobenzene	0.2 ug/mL
							1,2,4-Trichlorobenzene	0.2 ug/mL
							1,2-Dichlorobenzene	0.2 ug/mL
							1,2-Diphenylhydrazine	0.2 ug/mL
							1,3-Dichlorobenzene	0.2 ug/mL
							1,3-Dinitrobenzene	0.2 ug/mL
							1,4-Dichlorobenzene	0.2 ug/mL
							1,4-Dioxane	0.2 ug/mL
							1-Methylnaphthalene	0.2 ug/mL
							2,2'-oxybis[1-chloropropane]	0.2 ug/mL
							2,3,4,6-Tetrachlorophenol	0.2 ug/mL
							2,4,5-Trichlorophenol	0.2 ug/mL
							2,4,6-Trichlorophenol	0.2 ug/mL
							2,4-Dichlorophenol	0.2 ug/mL
							2,4-Dimethylphenol	0.2 ug/mL
							2,4-Dinitrophenol	0.4 ug/mL
							2,4-Dinitrotoluene	0.2 ug/mL
							2,6-Dichlorophenol	0.2 ug/mL
							2,6-Dinitrotoluene	0.2 ug/mL
							2-Chloronaphthalene	0.2 ug/mL
							2-Chlorophenol	0.2 ug/mL
							2-Methylnaphthalene	0.2 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48309-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Methylphenol	0.2 ug/mL
							2-Nitroaniline	0.2 ug/mL
							2-Nitrophenol	0.2 ug/mL
							3-Nitroaniline	0.2 ug/mL
							4,6-Dinitro-2-methylphenol	0.4 ug/mL
							4-Bromophenyl phenyl ether	0.2 ug/mL
							4-Chloro-3-methylphenol	0.2 ug/mL
							4-Chloroaniline	0.2 ug/mL
							4-Chlorophenyl phenyl ether	0.2 ug/mL
							4-Methylphenol	0.2 ug/mL
							4-Nitroaniline	0.2 ug/mL
							4-Nitrophenol	0.4 ug/mL
							Acenaphthene	0.2 ug/mL
							Acenaphthylene	0.2 ug/mL
							Acetophenone	0.2 ug/mL
							Aniline	0.2 ug/mL
							Anthracene	0.2 ug/mL
							Benzo[a]anthracene	0.2 ug/mL
							Benzo[a]pyrene	0.2 ug/mL
							Benzo[b]fluoranthene	0.2 ug/mL
							Benzo[g,h,i]perylene	0.2 ug/mL
							Benzo[k]fluoranthene	0.2 ug/mL
							Benzyl alcohol	0.2 ug/mL
							Bis(2-chloroethoxy)methane	0.2 ug/mL
							Bis(2-chloroethyl)ether	0.2 ug/mL
							Bis(2-ethylhexyl) phthalate	0.2 ug/mL
							Butyl benzyl phthalate	0.2 ug/mL
							Carbazole	0.2 ug/mL
							Chrysene	0.2 ug/mL
							Di-n-butyl phthalate	0.2 ug/mL
							Di-n-octyl phthalate	0.2 ug/mL
							Dibenz(a,h)anthracene	0.2 ug/mL
							Dibenzofuran	0.2 ug/mL
							Diethyl phthalate	0.2 ug/mL
							Dimethyl phthalate	0.2 ug/mL
							Fluoranthene	0.2 ug/mL
							Fluorene	0.2 ug/mL
							Hexachlorobenzene	0.2 ug/mL
							Hexachlorobutadiene	0.2 ug/mL
							Hexachlorocyclopentadiene	0.2 ug/mL
							Hexachloroethane	0.2 ug/mL
							Hexadecane	0.2 ug/mL
							Indeno[1,2,3-cd]pyrene	0.2 ug/mL
							Isophorone	0.2 ug/mL
							n-Decane	0.2 ug/mL
							N-Nitrosodi-n-propylamine	0.2 ug/mL
							N-Nitrosodimethylamine	0.2 ug/mL
							N-Nitrosodiphenylamine	0.4 ug/mL

Lab Name: TestAmerica Pittsburgh Job No.: 180-48309-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							n-Octadecane	0.2 ug/mL
							Naphthalene	0.2 ug/mL
							Nitrobenzene	0.2 ug/mL
							Pentachlorophenol	0.4 ug/mL
							Phenanthrene	0.2 ug/mL
							Phenol	0.2 ug/mL
							Pyrene	0.2 ug/mL
							Pyridine	0.2 ug/mL
							Benzoic acid	0.2 ug/mL
							Indene	0.2 ug/mL
							Atrazine	0.2 ug/mL
							Benzaldehyde	0.2 ug/mL
							Caprolactam	0.2 ug/mL
							3,3'-Dichlorobenzidine	0.2 ug/mL
							Benzidine	0.2 ug/mL
							2,4,6-Tribromophenol (Surr)	0.2 ug/mL
							2-Fluorobiphenyl	0.2 ug/mL
							2-Fluorophenol (Surr)	0.2 ug/mL
							Nitrobenzene-d5 (Surr)	0.2 ug/mL
							Phenol-d5 (Surr)	0.2 ug/mL
							Terphenyl-d14 (Surr)	0.2 ug/mL
							Methyl methanesulfonate	0.2 ug/mL
							N-Nitrosopyrrolidine	0.2 ug/mL
.SVTAPITINTRNi_00007	12/03/15	12/03/14	MeCl2, Lot 1417620	25 mL	SVLVIntstd_00004	5 mL	1,4-Dichlorobenzene-d4	400 ug/mL
							Acenaphthene-d10	400 ug/mL
							Chrysene-d12	400 ug/mL
							Naphthalene-d8	400 ug/mL
							Perylene-d12	400 ug/mL
							Phenanthrene-d10	400 ug/mL
..SVLVIntstd_00004	02/28/18	Restek, Lot A093676			(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
.SVTAPITSTCKi_00006	10/23/15	04/23/15	MeCl2, Lot 1417620	20 mL	sv benzoepyre_00001	800 uL	Benzo[e]pyrene	40 ug/mL
					SV2356TCPs_00002	800 uL	2,3,5,6-Tetrachlorophenol	40 ug/mL
					SV2NAPAMINEs_00002	800 uL	2-Naphthylamine	40 ug/mL
					sv712dimbenza_00011	800 uL	7,12-Dimethylbenz(a)anthracene	40 ug/mL
					SVLVstd1_00032	800 uL	1,1'-Biphenyl	40 ug/mL
							1,2,4,5-Tetrachlorobenzene	40 ug/mL
							1,2,4-Trichlorobenzene	40 ug/mL
							1,2-Dichlorobenzene	40 ug/mL
							1,2-Diphenylhydrazine	40 ug/mL
							1,3-Dichlorobenzene	40 ug/mL
							1,3-Dinitrobenzene	40 ug/mL
							1,4-Dichlorobenzene	40 ug/mL
							1,4-Dioxane	40 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48309-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1-Methylnaphthalene	40 ug/mL
							2,2'-oxybis[1-chloropropane]	40 ug/mL
							2,3,4,6-Tetrachlorophenol	40 ug/mL
							2,4,5-Trichlorophenol	40 ug/mL
							2,4,6-Trichlorophenol	40 ug/mL
							2,4-Dichlorophenol	40 ug/mL
							2,4-Dimethylphenol	40 ug/mL
							2,4-Dinitrophenol	80 ug/mL
							2,4-Dinitrotoluene	40 ug/mL
							2,6-Dichlorophenol	40 ug/mL
							2,6-Dinitrotoluene	40 ug/mL
							2-Chloronaphthalene	40 ug/mL
							2-Chlorophenol	40 ug/mL
							2-Methylnaphthalene	40 ug/mL
							2-Methylphenol	40 ug/mL
							2-Nitroaniline	40 ug/mL
							2-Nitrophenol	40 ug/mL
							3-Nitroaniline	40 ug/mL
							4,6-Dinitro-2-methylphenol	80 ug/mL
							4-Bromophenyl phenyl ether	40 ug/mL
							4-Chloro-3-methylphenol	40 ug/mL
							4-Chloroaniline	40 ug/mL
							4-Chlorophenyl phenyl ether	40 ug/mL
							4-Methylphenol	40 ug/mL
							4-Nitroaniline	40 ug/mL
							4-Nitrophenol	80 ug/mL
							Acenaphthene	40 ug/mL
							Acenaphthylene	40 ug/mL
							Acetophenone	40 ug/mL
							Aniline	40 ug/mL
							Anthracene	40 ug/mL
							Benzo[a]anthracene	40 ug/mL
							Benzo[a]pyrene	40 ug/mL
							Benzo[b]fluoranthene	40 ug/mL
							Benzo[g,h,i]perylene	40 ug/mL
							Benzo[k]fluoranthene	40 ug/mL
							Benzyl alcohol	40 ug/mL
							Bis(2-chloroethoxy)methane	40 ug/mL
							Bis(2-chloroethyl)ether	40 ug/mL
							Bis(2-ethylhexyl) phthalate	40 ug/mL
							Butyl benzyl phthalate	40 ug/mL
							Carbazole	40 ug/mL
							Chrysene	40 ug/mL
							Di-n-butyl phthalate	40 ug/mL
							Di-n-octyl phthalate	40 ug/mL
							Dibenz(a,h)anthracene	40 ug/mL
							Dibenzofuran	40 ug/mL
							Diethyl phthalate	40 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48309-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dimethyl phthalate	40 ug/mL
							Fluoranthene	40 ug/mL
							Fluorene	40 ug/mL
							Hexachlorobenzene	40 ug/mL
							Hexachlorobutadiene	40 ug/mL
							Hexachlorocyclopentadiene	40 ug/mL
							Hexachloroethane	40 ug/mL
							Hexadecane	40 ug/mL
							Indeno[1,2,3-cd]pyrene	40 ug/mL
							Isophorone	40 ug/mL
							n-Decane	40 ug/mL
							N-Nitrosodi-n-propylamine	40 ug/mL
							N-Nitrosodimethylamine	40 ug/mL
							N-Nitrosodiphenylamine	80 ug/mL
							n-Octadecane	40 ug/mL
							Naphthalene	40 ug/mL
							Nitrobenzene	40 ug/mL
							Pentachlorophenol	80 ug/mL
							Phenanthrene	40 ug/mL
							Phenol	40 ug/mL
							Pyrene	40 ug/mL
							Pyridine	40 ug/mL
					SVLVstd10_00001	400 uL	Benzoic acid	40 ug/mL
							Indene	40 ug/mL
					SVLVstd11_00001	400 uL	Atrazine	40 ug/mL
							Benzaldehyde	40 ug/mL
							Caprolactam	40 ug/mL
					SVLVstd9_00001	400 uL	3,3'-Dichlorobenzidine	40 ug/mL
							Benzidine	40 ug/mL
					SVLVSURRSPK_00014	160 uL	2,4,6-Tribromophenol (Surr)	40 ug/mL
							2-Fluorobiphenyl	40 ug/mL
							2-Fluorophenol (Surr)	40 ug/mL
							Nitrobenzene-d5 (Surr)	40 ug/mL
							Phenol-d5 (Surr)	40 ug/mL
							Terphenyl-d14 (Surr)	40 ug/mL
					svmethylmetha_00011	800 uL	Methyl methanesulfonate	40 ug/mL
					SVNNITROPYROs_00015	800 uL	N-Nitrosopyrrolidine	40 ug/mL
..sv benzoepyre_00001	10/03/18		Absolute, Lot 100313		(Purchased Reagent)		Benzo[e]pyrene	1000 ug/mL
..SV2356TCPs_00002	06/17/16		Absolute, Lot 061711		(Purchased Reagent)		2,3,5,6-Tetrachlorophenol	1000 ug/mL
..SV2NAPAMINEs_00002	06/30/17		Ultra Scientific, Lot Ck-1617		(Purchased Reagent)		2-Naphthylamine	1000 ug/mL
..sv712dimbenza_00011	04/09/20		Absolute, Lot 040915		(Purchased Reagent)		7,12-Dimethylbenz(a)anthracene	1000 ug/mL
..SVLVstd1_00032	05/31/16		Restek, Lot A0107399		(Purchased Reagent)		1,1'-Biphenyl	1000 ug/mL
							1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48309-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2,2'-oxybis[1-chloropropane]	1000 ug/mL
							2,3,4,6-Tetrachlorophenol	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dichlorophenol	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Methylphenol	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48309-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Hexadecane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							n-Decane	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							N-Nitrosodiphenylamine	2000 ug/mL
							n-Octadecane	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	1000 ug/mL
..SVLVstd10_00001	06/30/16		Restek, Lot A0107943		(Purchased Reagent)		Benzoic acid	2000 ug/mL
							Indene	2000 ug/mL
..SVLVstd11_00001	06/30/16		Restek, Lot A0108035		(Purchased Reagent)		Atrazine	2000 ug/mL
							Benzaldehyde	2000 ug/mL
							Caprolactam	2000 ug/mL
..SVLVstd9_00001	07/31/16		Restek, Lot A0108709		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Benzidine	2000 ug/mL
..SVLVSURRSPK_00014	05/31/19		Restek, Lot A0103615		(Purchased Reagent)		2,4,6-Tribromophenol (Surr)	5000 ug/mL
							2-Fluorobiphenyl	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL
..svmethylmetha_00011	02/13/20		Absolute, Lot 021315		(Purchased Reagent)		Methyl methanesulfonate	1000 ug/mL
..SVNNITROPYROs_00015	06/05/17		absolute, Lot 060514		(Purchased Reagent)		N-Nitrosopyrrolidine	1000 ug/mL
SVTAPSTD10i_00124	09/04/15	08/28/15	MeCl2, Lot 1417620	1 mL	SVTAPITINTRNi_00007	10 uL	1,4-Dichlorobenzene-d4	4 ug/mL
							Acenaphthene-d10	4 ug/mL
							Chrysene-d12	4 ug/mL
							Naphthalene-d8	4 ug/mL
							Perylene-d12	4 ug/mL
							Phenanthrene-d10	4 ug/mL
					SVTAPITSTCKi_00006	125 uL	Benzo[e]pyrene	5 ug/mL
							2,3,5,6-Tetrachlorophenol	5 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48309-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Naphthylamine	5 ug/mL
							7,12-Dimethylbenz(a)anthracene	5 ug/mL
							1,1'-Biphenyl	5 ug/mL
							1,2,4,5-Tetrachlorobenzene	5 ug/mL
							1,2,4-Trichlorobenzene	5 ug/mL
							1,2-Dichlorobenzene	5 ug/mL
							1,2-Diphenylhydrazine	5 ug/mL
							1,3-Dichlorobenzene	5 ug/mL
							1,3-Dinitrobenzene	5 ug/mL
							1,4-Dichlorobenzene	5 ug/mL
							1,4-Dioxane	5 ug/mL
							1-Methylnaphthalene	5 ug/mL
							2,2'-oxybis[1-chloropropane]	5 ug/mL
							2,3,4,6-Tetrachlorophenol	5 ug/mL
							2,4,5-Trichlorophenol	5 ug/mL
							2,4,6-Trichlorophenol	5 ug/mL
							2,4-Dichlorophenol	5 ug/mL
							2,4-Dimethylphenol	5 ug/mL
							2,4-Dinitrophenol	10 ug/mL
							2,4-Dinitrotoluene	5 ug/mL
							2,6-Dichlorophenol	5 ug/mL
							2,6-Dinitrotoluene	5 ug/mL
							2-Chloronaphthalene	5 ug/mL
							2-Chlorophenol	5 ug/mL
							2-Methylnaphthalene	5 ug/mL
							2-Methylphenol	5 ug/mL
							2-Nitroaniline	5 ug/mL
							2-Nitrophenol	5 ug/mL
							3-Nitroaniline	5 ug/mL
							4,6-Dinitro-2-methylphenol	10 ug/mL
							4-Bromophenyl phenyl ether	5 ug/mL
							4-Chloro-3-methylphenol	5 ug/mL
							4-Chloroaniline	5 ug/mL
							4-Chlorophenyl phenyl ether	5 ug/mL
							4-Methylphenol	5 ug/mL
							4-Nitroaniline	5 ug/mL
							4-Nitrophenol	10 ug/mL
							Acenaphthene	5 ug/mL
							Acenaphthylene	5 ug/mL
							Acetophenone	5 ug/mL
							Aniline	5 ug/mL
							Anthracene	5 ug/mL
							Benzo[a]anthracene	5 ug/mL
							Benzo[a]pyrene	5 ug/mL
							Benzo[b]fluoranthene	5 ug/mL
							Benzo[g,h,i]perylene	5 ug/mL
							Benzo[k]fluoranthene	5 ug/mL
							Benzyl alcohol	5 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48309-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Bis(2-chloroethoxy)methane	5 ug/mL
							Bis(2-chloroethyl)ether	5 ug/mL
							Bis(2-ethylhexyl) phthalate	5 ug/mL
							Butyl benzyl phthalate	5 ug/mL
							Carbazole	5 ug/mL
							Chrysene	5 ug/mL
							Di-n-butyl phthalate	5 ug/mL
							Di-n-octyl phthalate	5 ug/mL
							Dibenz(a,h)anthracene	5 ug/mL
							Dibenzofuran	5 ug/mL
							Diethyl phthalate	5 ug/mL
							Dimethyl phthalate	5 ug/mL
							Fluoranthene	5 ug/mL
							Fluorene	5 ug/mL
							Hexachlorobenzene	5 ug/mL
							Hexachlorobutadiene	5 ug/mL
							Hexachlorocyclopentadiene	5 ug/mL
							Hexachloroethane	5 ug/mL
							Hexadecane	5 ug/mL
							Indeno[1,2,3-cd]pyrene	5 ug/mL
							Isophorone	5 ug/mL
							n-Decane	5 ug/mL
							N-Nitrosodi-n-propylamine	5 ug/mL
							N-Nitrosodimethylamine	5 ug/mL
							N-Nitrosodiphenylamine	10 ug/mL
							n-Octadecane	5 ug/mL
							Naphthalene	5 ug/mL
							Nitrobenzene	5 ug/mL
							Pentachlorophenol	10 ug/mL
							Phenanthrene	5 ug/mL
							Phenol	5 ug/mL
							Pyrene	5 ug/mL
							Pyridine	5 ug/mL
							Benzoic acid	5 ug/mL
							Indene	5 ug/mL
							Atrazine	5 ug/mL
							Benzaldehyde	5 ug/mL
							Caprolactam	5 ug/mL
							3,3'-Dichlorobenzidine	5 ug/mL
							Benzidine	5 ug/mL
							2,4,6-Tribromophenol (Surr)	5 ug/mL
							2-Fluorobiphenyl	5 ug/mL
							2-Fluorophenol (Surr)	5 ug/mL
							Nitrobenzene-d5 (Surr)	5 ug/mL
							Phenol-d5 (Surr)	5 ug/mL
							Terphenyl-d14 (Surr)	5 ug/mL
							Methyl methanesulfonate	5 ug/mL
							N-Nitrosopyrrolidine	5 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48309-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.SVTAPITINTRNi_00007	12/03/15	12/03/14	MeCl2, Lot 1417620	25 mL	SVLVIntstd_00004	5 mL	1,4-Dichlorobenzene-d4	400 ug/mL
							Acenaphthene-d10	400 ug/mL
							Chrysene-d12	400 ug/mL
							Naphthalene-d8	400 ug/mL
							Perylene-d12	400 ug/mL
							Phenanthrene-d10	400 ug/mL
..SVLVIntstd_00004	02/28/18		Restek, Lot A093676		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
.SVTAPITSTCKi_00006	10/23/15	04/23/15	MeCl2, Lot 1417620	20 mL	sv benzoepyre_00001	800 uL	Benzo[e]pyrene	40 ug/mL
					SV2356TCPs_00002	800 uL	2,3,5,6-Tetrachlorophenol	40 ug/mL
					SV2NAPAMINEs_00002	800 uL	2-Naphthylamine	40 ug/mL
					sv712dimbenza_00011	800 uL	7,12-Dimethylbenz(a)anthracene	40 ug/mL
					SVLVstd1_00032	800 uL	1,1'-Biphenyl	40 ug/mL
							1,2,4,5-Tetrachlorobenzene	40 ug/mL
							1,2,4-Trichlorobenzene	40 ug/mL
							1,2-Dichlorobenzene	40 ug/mL
							1,2-Diphenylhydrazine	40 ug/mL
							1,3-Dichlorobenzene	40 ug/mL
							1,3-Dinitrobenzene	40 ug/mL
							1,4-Dichlorobenzene	40 ug/mL
							1,4-Dioxane	40 ug/mL
							1-Methylnaphthalene	40 ug/mL
							2,2'-oxybis[1-chloropropane]	40 ug/mL
							2,3,4,6-Tetrachlorophenol	40 ug/mL
							2,4,5-Trichlorophenol	40 ug/mL
							2,4,6-Trichlorophenol	40 ug/mL
							2,4-Dichlorophenol	40 ug/mL
							2,4-Dimethylphenol	40 ug/mL
							2,4-Dinitrophenol	80 ug/mL
							2,4-Dinitrotoluene	40 ug/mL
							2,6-Dichlorophenol	40 ug/mL
							2,6-Dinitrotoluene	40 ug/mL
							2-Chloronaphthalene	40 ug/mL
							2-Chlorophenol	40 ug/mL
							2-Methylnaphthalene	40 ug/mL
							2-Methylphenol	40 ug/mL
							2-Nitroaniline	40 ug/mL
							2-Nitrophenol	40 ug/mL
							3-Nitroaniline	40 ug/mL
							4,6-Dinitro-2-methylphenol	80 ug/mL
							4-Bromophenyl phenyl ether	40 ug/mL
							4-Chloro-3-methylphenol	40 ug/mL
							4-Chloroaniline	40 ug/mL
							4-Chlorophenyl phenyl ether	40 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48309-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4-Methylphenol	40 ug/mL
							4-Nitroaniline	40 ug/mL
							4-Nitrophenol	80 ug/mL
							Acenaphthene	40 ug/mL
							Acenaphthylene	40 ug/mL
							Acetophenone	40 ug/mL
							Aniline	40 ug/mL
							Anthracene	40 ug/mL
							Benzo[a]anthracene	40 ug/mL
							Benzo[a]pyrene	40 ug/mL
							Benzo[b]fluoranthene	40 ug/mL
							Benzo[g,h,i]perylene	40 ug/mL
							Benzo[k]fluoranthene	40 ug/mL
							Benzyl alcohol	40 ug/mL
							Bis(2-chloroethoxy)methane	40 ug/mL
							Bis(2-chloroethyl)ether	40 ug/mL
							Bis(2-ethylhexyl) phthalate	40 ug/mL
							Butyl benzyl phthalate	40 ug/mL
							Carbazole	40 ug/mL
							Chrysene	40 ug/mL
							Di-n-butyl phthalate	40 ug/mL
							Di-n-octyl phthalate	40 ug/mL
							Dibenz(a,h)anthracene	40 ug/mL
							Dibenzofuran	40 ug/mL
							Diethyl phthalate	40 ug/mL
							Dimethyl phthalate	40 ug/mL
							Fluoranthene	40 ug/mL
							Fluorene	40 ug/mL
							Hexachlorobenzene	40 ug/mL
							Hexachlorobutadiene	40 ug/mL
							Hexachlorocyclopentadiene	40 ug/mL
							Hexachloroethane	40 ug/mL
							Hexadecane	40 ug/mL
							Indeno[1,2,3-cd]pyrene	40 ug/mL
							Isophorone	40 ug/mL
							n-Decane	40 ug/mL
							N-Nitrosodi-n-propylamine	40 ug/mL
							N-Nitrosodimethylamine	40 ug/mL
							N-Nitrosodiphenylamine	80 ug/mL
							n-Octadecane	40 ug/mL
							Naphthalene	40 ug/mL
							Nitrobenzene	40 ug/mL
							Pentachlorophenol	80 ug/mL
							Phenanthrene	40 ug/mL
							Phenol	40 ug/mL
							Pyrene	40 ug/mL
							Pyridine	40 ug/mL
					SVLVstd10_00001	400 uL	Benzoic acid	40 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48309-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Indene	40 ug/mL
					SVLVstd11_00001	400 uL	Atrazine	40 ug/mL
							Benzaldehyde	40 ug/mL
							Caprolactam	40 ug/mL
					SVLVstd9_00001	400 uL	3,3'-Dichlorobenzidine	40 ug/mL
							Benzidine	40 ug/mL
					SVLVSURRSPK_00014	160 uL	2,4,6-Tribromophenol (Surr)	40 ug/mL
							2-Fluorobiphenyl	40 ug/mL
							2-Fluorophenol (Surr)	40 ug/mL
							Nitrobenzene-d5 (Surr)	40 ug/mL
							Phenol-d5 (Surr)	40 ug/mL
							Terphenyl-d14 (Surr)	40 ug/mL
					svmethylmetha_00011	800 uL	Methyl methanesulfonate	40 ug/mL
					SVNNITROPYROs_00015	800 uL	N-Nitrosopyrrolidine	40 ug/mL
..sv benzoepyre_00001	10/03/18		Absolute, Lot 100313		(Purchased Reagent)		Benzo[e]pyrene	1000 ug/mL
..SV2356TCPs_00002	06/17/16		Absolute, Lot 061711		(Purchased Reagent)		2,3,5,6-Tetrachlorophenol	1000 ug/mL
..SV2NAPAMINEs_00002	06/30/17		Ultra Scientific, Lot Ck-1617		(Purchased Reagent)		2-Naphthylamine	1000 ug/mL
..sv712dimbenza_00011	04/09/20		Absolute, Lot 040915		(Purchased Reagent)		7,12-Dimethylbenz(a)anthracene	1000 ug/mL
..SVLVstd1_00032	05/31/16		Restek, Lot A0107399		(Purchased Reagent)		1,1'-Biphenyl	1000 ug/mL
							1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2,2'-oxybis[1-chloropropane]	1000 ug/mL
							2,3,4,6-Tetrachlorophenol	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dichlorophenol	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48309-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Methylphenol	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Hexadecane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							n-Decane	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							N-Nitrosodiphenylamine	2000 ug/mL
							n-Octadecane	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48309-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Pyridine	1000 ug/mL
..SVLVstd10_00001	06/30/16		Restek, Lot A0107943		(Purchased Reagent)		Benzoic acid	2000 ug/mL
							Indene	2000 ug/mL
..SVLVstd11_00001	06/30/16		Restek, Lot A0108035		(Purchased Reagent)		Atrazine	2000 ug/mL
							Benzaldehyde	2000 ug/mL
							Caprolactam	2000 ug/mL
..SVLVstd9_00001	07/31/16		Restek, Lot A0108709		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Benzidine	2000 ug/mL
..SVLVSURRSPK_00014	05/31/19		Restek, Lot A0103615		(Purchased Reagent)		2,4,6-Tribromophenol (Surr)	5000 ug/mL
							2-Fluorobiphenyl	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL
..svmethylmetha_00011	02/13/20		Absolute, Lot 021315		(Purchased Reagent)		Methyl methanesulfonate	1000 ug/mL
..SVNNITROPYROs_00015	06/05/17		absolute, Lot 060514		(Purchased Reagent)		N-Nitrosopyrrolidine	1000 ug/mL
SVTAPSTD10i_00129	10/14/15	10/07/15	MeCl2, Lot 1417620	1 mL	SVTAPITINTRNi_00007	10 uL	1,4-Dichlorobenzene-d4	4 ug/mL
							Acenaphthene-d10	4 ug/mL
							Chrysene-d12	4 ug/mL
							Naphthalene-d8	4 ug/mL
							Perylene-d12	4 ug/mL
							Phenanthrene-d10	4 ug/mL
.SVTAPITINTRNi_00007	12/03/15	12/03/14	MeCl2, Lot 1417620	25 mL	SVLVIntstd_00004	5 mL	1,4-Dichlorobenzene-d4	400 ug/mL
							Acenaphthene-d10	400 ug/mL
							Chrysene-d12	400 ug/mL
							Naphthalene-d8	400 ug/mL
							Perylene-d12	400 ug/mL
							Phenanthrene-d10	400 ug/mL
..SVLVIntstd_00004	02/28/18		Restek, Lot A093676		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
SVTAPSTD10i_00129	10/14/15	10/07/15	MeCl2, Lot 1417620	1 mL	SVTAPITSTCKi_00006	125 uL	1,4-Dioxane	5 ug/mL
							2,4,6-Tribromophenol (Surr)	5 ug/mL
							2-Fluorobiphenyl	5 ug/mL
							2-Fluorophenol (Surr)	5 ug/mL
							Nitrobenzene-d5 (Surr)	5 ug/mL
							Phenol-d5 (Surr)	5 ug/mL
							Terphenyl-d14 (Surr)	5 ug/mL
.SVTAPITSTCKi_00006	10/23/15	04/23/15	MeCl2, Lot 1417620	20 mL	SVLVstd1_00032	800 uL	1,4-Dioxane	40 ug/mL
					SVLVSURRSPK_00014	160 uL	2,4,6-Tribromophenol (Surr)	40 ug/mL
							2-Fluorobiphenyl	40 ug/mL
							2-Fluorophenol (Surr)	40 ug/mL
							Nitrobenzene-d5 (Surr)	40 ug/mL
							Phenol-d5 (Surr)	40 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48309-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Terphenyl-d14 (Surr)	40 ug/mL
..SVLVstd1_00032	05/31/16		Restek, Lot A0107399		(Purchased Reagent)		1,4-Dioxane	1000 ug/mL
..SVLVSURRSPK_00014	05/31/19		Restek, Lot A0103615		(Purchased Reagent)		2,4,6-Tribromophenol (Surr)	5000 ug/mL
							2-Fluorobiphenyl	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL
SVTAPSTD2.0i_00007	10/23/15	04/23/15	MeCl2, Lot 1417620	1 mL	SVTAPITINTRNi_00007	10 uL	1,4-Dichlorobenzene-d4	4 ug/mL
							Acenaphthene-d10	4 ug/mL
							Chrysene-d12	4 ug/mL
							Naphthalene-d8	4 ug/mL
							Perylene-d12	4 ug/mL
							Phenanthrene-d10	4 ug/mL
					SVTAPITSTCKi_00006	25 uL	Benzo[e]pyrene	1 ug/mL
							2,3,5,6-Tetrachlorophenol	1 ug/mL
							2-Naphthylamine	1 ug/mL
							7,12-Dimethylbenz(a)anthracene	1 ug/mL
							1,1'-Biphenyl	1 ug/mL
							1,2,4,5-Tetrachlorobenzene	1 ug/mL
							1,2,4-Trichlorobenzene	1 ug/mL
							1,2-Dichlorobenzene	1 ug/mL
							1,2-Diphenylhydrazine	1 ug/mL
							1,3-Dichlorobenzene	1 ug/mL
							1,3-Dinitrobenzene	1 ug/mL
							1,4-Dichlorobenzene	1 ug/mL
							1,4-Dioxane	1 ug/mL
							1-Methylnaphthalene	1 ug/mL
							2,2'-oxybis[1-chloropropane]	1 ug/mL
							2,3,4,6-Tetrachlorophenol	1 ug/mL
							2,4,5-Trichlorophenol	1 ug/mL
							2,4,6-Trichlorophenol	1 ug/mL
							2,4-Dichlorophenol	1 ug/mL
							2,4-Dimethylphenol	1 ug/mL
							2,4-Dinitrophenol	2 ug/mL
							2,4-Dinitrotoluene	1 ug/mL
							2,6-Dichlorophenol	1 ug/mL
							2,6-Dinitrotoluene	1 ug/mL
							2-Chloronaphthalene	1 ug/mL
							2-Chlorophenol	1 ug/mL
							2-Methylnaphthalene	1 ug/mL
							2-Methylphenol	1 ug/mL
							2-Nitroaniline	1 ug/mL
							2-Nitrophenol	1 ug/mL
							3-Nitroaniline	1 ug/mL
							4,6-Dinitro-2-methylphenol	2 ug/mL
							4-Bromophenyl phenyl ether	1 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48309-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4-Chloro-3-methylphenol	1 ug/mL
							4-Chloroaniline	1 ug/mL
							4-Chlorophenyl phenyl ether	1 ug/mL
							4-Methylphenol	1 ug/mL
							4-Nitroaniline	1 ug/mL
							4-Nitrophenol	2 ug/mL
							Acenaphthene	1 ug/mL
							Acenaphthylene	1 ug/mL
							Acetophenone	1 ug/mL
							Aniline	1 ug/mL
							Anthracene	1 ug/mL
							Benzo[a]anthracene	1 ug/mL
							Benzo[a]pyrene	1 ug/mL
							Benzo[b]fluoranthene	1 ug/mL
							Benzo[g,h,i]perylene	1 ug/mL
							Benzo[k]fluoranthene	1 ug/mL
							Benzyl alcohol	1 ug/mL
							Bis(2-chloroethoxy)methane	1 ug/mL
							Bis(2-chloroethyl)ether	1 ug/mL
							Bis(2-ethylhexyl) phthalate	1 ug/mL
							Butyl benzyl phthalate	1 ug/mL
							Carbazole	1 ug/mL
							Chrysene	1 ug/mL
							Di-n-butyl phthalate	1 ug/mL
							Di-n-octyl phthalate	1 ug/mL
							Dibenz(a,h)anthracene	1 ug/mL
							Dibenzofuran	1 ug/mL
							Diethyl phthalate	1 ug/mL
							Dimethyl phthalate	1 ug/mL
							Fluoranthene	1 ug/mL
							Fluorene	1 ug/mL
							Hexachlorobenzene	1 ug/mL
							Hexachlorobutadiene	1 ug/mL
							Hexachlorocyclopentadiene	1 ug/mL
							Hexachloroethane	1 ug/mL
							Hexadecane	1 ug/mL
							Indeno[1,2,3-cd]pyrene	1 ug/mL
							Isophorone	1 ug/mL
							n-Decane	1 ug/mL
							N-Nitrosodi-n-propylamine	1 ug/mL
							N-Nitrosodimethylamine	1 ug/mL
							N-Nitrosodiphenylamine	2 ug/mL
							n-Octadecane	1 ug/mL
							Naphthalene	1 ug/mL
							Nitrobenzene	1 ug/mL
							Pentachlorophenol	2 ug/mL
							Phenanthrene	1 ug/mL
							Phenol	1 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48309-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Pyrene	1 ug/mL
							Pyridine	1 ug/mL
							Benzoic acid	1 ug/mL
							Indene	1 ug/mL
							Atrazine	1 ug/mL
							Benzaldehyde	1 ug/mL
							Caprolactam	1 ug/mL
							3,3'-Dichlorobenzidine	1 ug/mL
							Benzidine	1 ug/mL
							2,4,6-Tribromophenol (Surr)	1 ug/mL
							2-Fluorobiphenyl	1 ug/mL
							2-Fluorophenol (Surr)	1 ug/mL
							Nitrobenzene-d5 (Surr)	1 ug/mL
							Phenol-d5 (Surr)	1 ug/mL
							Terphenyl-d14 (Surr)	1 ug/mL
							Methyl methanesulfonate	1 ug/mL
							N-Nitrosopyrrolidine	1 ug/mL
.SVTAPITINTRNi_00007	12/03/15	12/03/14	MeCl2, Lot 1417620	25 mL	SVLVIntstd_00004	5 mL	1,4-Dichlorobenzene-d4	400 ug/mL
							Acenaphthene-d10	400 ug/mL
							Chrysene-d12	400 ug/mL
							Naphthalene-d8	400 ug/mL
							Perylene-d12	400 ug/mL
							Phenanthrene-d10	400 ug/mL
..SVLVIntstd_00004	02/28/18	Restek, Lot A093676			(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
.SVTAPITSTCKi_00006	10/23/15	04/23/15	MeCl2, Lot 1417620	20 mL	sv benzoepyre_00001	800 uL	Benzo[e]pyrene	40 ug/mL
					SV2356TCPs_00002	800 uL	2,3,5,6-Tetrachlorophenol	40 ug/mL
					SV2NAPAMINEs_00002	800 uL	2-Naphthylamine	40 ug/mL
					sv712dimbenza_00011	800 uL	7,12-Dimethylbenz(a)anthracene	40 ug/mL
					SVLVstd1_00032	800 uL	1,1'-Biphenyl	40 ug/mL
							1,2,4,5-Tetrachlorobenzene	40 ug/mL
							1,2,4-Trichlorobenzene	40 ug/mL
							1,2-Dichlorobenzene	40 ug/mL
							1,2-Diphenylhydrazine	40 ug/mL
							1,3-Dichlorobenzene	40 ug/mL
							1,3-Dinitrobenzene	40 ug/mL
							1,4-Dichlorobenzene	40 ug/mL
							1,4-Dioxane	40 ug/mL
							1-Methylnaphthalene	40 ug/mL
							2,2'-oxybis[1-chloropropane]	40 ug/mL
							2,3,4,6-Tetrachlorophenol	40 ug/mL
							2,4,5-Trichlorophenol	40 ug/mL
							2,4,6-Trichlorophenol	40 ug/mL
							2,4-Dichlorophenol	40 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48309-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,4-Dimethylphenol	40 ug/mL
							2,4-Dinitrophenol	80 ug/mL
							2,4-Dinitrotoluene	40 ug/mL
							2,6-Dichlorophenol	40 ug/mL
							2,6-Dinitrotoluene	40 ug/mL
							2-Chloronaphthalene	40 ug/mL
							2-Chlorophenol	40 ug/mL
							2-Methylnaphthalene	40 ug/mL
							2-Methylphenol	40 ug/mL
							2-Nitroaniline	40 ug/mL
							2-Nitrophenol	40 ug/mL
							3-Nitroaniline	40 ug/mL
							4,6-Dinitro-2-methylphenol	80 ug/mL
							4-Bromophenyl phenyl ether	40 ug/mL
							4-Chloro-3-methylphenol	40 ug/mL
							4-Chloroaniline	40 ug/mL
							4-Chlorophenyl phenyl ether	40 ug/mL
							4-Methylphenol	40 ug/mL
							4-Nitroaniline	40 ug/mL
							4-Nitrophenol	80 ug/mL
							Acenaphthene	40 ug/mL
							Acenaphthylene	40 ug/mL
							Acetophenone	40 ug/mL
							Aniline	40 ug/mL
							Anthracene	40 ug/mL
							Benzo[a]anthracene	40 ug/mL
							Benzo[a]pyrene	40 ug/mL
							Benzo[b]fluoranthene	40 ug/mL
							Benzo[g,h,i]perylene	40 ug/mL
							Benzo[k]fluoranthene	40 ug/mL
							Benzyl alcohol	40 ug/mL
							Bis(2-chloroethoxy)methane	40 ug/mL
							Bis(2-chloroethyl)ether	40 ug/mL
							Bis(2-ethylhexyl) phthalate	40 ug/mL
							Butyl benzyl phthalate	40 ug/mL
							Carbazole	40 ug/mL
							Chrysene	40 ug/mL
							Di-n-butyl phthalate	40 ug/mL
							Di-n-octyl phthalate	40 ug/mL
							Dibenz(a,h)anthracene	40 ug/mL
							Dibenzofuran	40 ug/mL
							Diethyl phthalate	40 ug/mL
							Dimethyl phthalate	40 ug/mL
							Fluoranthene	40 ug/mL
							Fluorene	40 ug/mL
							Hexachlorobenzene	40 ug/mL
							Hexachlorobutadiene	40 ug/mL
							Hexachlorocyclopentadiene	40 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48309-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Hexachloroethane	40 ug/mL
							Hexadecane	40 ug/mL
							Indeno[1,2,3-cd]pyrene	40 ug/mL
							Isophorone	40 ug/mL
							n-Decane	40 ug/mL
							N-Nitrosodi-n-propylamine	40 ug/mL
							N-Nitrosodimethylamine	40 ug/mL
							N-Nitrosodiphenylamine	80 ug/mL
							n-Octadecane	40 ug/mL
							Naphthalene	40 ug/mL
							Nitrobenzene	40 ug/mL
							Pentachlorophenol	80 ug/mL
							Phenanthrene	40 ug/mL
							Phenol	40 ug/mL
							Pyrene	40 ug/mL
							Pyridine	40 ug/mL
					SVLVstd10_00001	400 uL	Benzoic acid	40 ug/mL
							Indene	40 ug/mL
					SVLVstd11_00001	400 uL	Atrazine	40 ug/mL
							Benzaldehyde	40 ug/mL
							Caprolactam	40 ug/mL
					SVLVstd9_00001	400 uL	3,3'-Dichlorobenzidine	40 ug/mL
							Benzidine	40 ug/mL
					SVLVSURRSPK_00014	160 uL	2,4,6-Tribromophenol (Surr)	40 ug/mL
							2-Fluorobiphenyl	40 ug/mL
							2-Fluorophenol (Surr)	40 ug/mL
							Nitrobenzene-d5 (Surr)	40 ug/mL
							Phenol-d5 (Surr)	40 ug/mL
							Terphenyl-d14 (Surr)	40 ug/mL
					svmethylmetha_00011	800 uL	Methyl methanesulfonate	40 ug/mL
					SVNNITROPYROs_00015	800 uL	N-Nitrosopyrrolidine	40 ug/mL
..sv benzoepyre_00001	10/03/18		Absolute, Lot 100313		(Purchased Reagent)		Benzo[e]pyrene	1000 ug/mL
..SV2356TCPs_00002	06/17/16		Absolute, Lot 061711		(Purchased Reagent)		2,3,5,6-Tetrachlorophenol	1000 ug/mL
..SV2NAPAMINEs_00002	06/30/17		Ultra Scientific, Lot Ck-1617		(Purchased Reagent)		2-Naphthylamine	1000 ug/mL
..sv712dimbenza_00011	04/09/20		Absolute, Lot 040915		(Purchased Reagent)		7,12-Dimethylbenz(a)anthracene	1000 ug/mL
..SVLVstd1_00032	05/31/16		Restek, Lot A0107399		(Purchased Reagent)		1,1'-Biphenyl	1000 ug/mL
							1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2,2'-oxybis[1-chloropropane]	1000 ug/mL
							2,3,4,6-Tetrachlorophenol	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48309-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dichlorophenol	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Methylphenol	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL

Lab Name: TestAmerica Pittsburgh Job No.: 180-48309-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Hexadecane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							n-Decane	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							N-Nitrosodiphenylamine	2000 ug/mL
							n-Octadecane	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	1000 ug/mL
..SVLVstd10_00001	06/30/16		Restek, Lot A0107943		(Purchased Reagent)		Benzoic acid	2000 ug/mL
							Indene	2000 ug/mL
..SVLVstd11_00001	06/30/16		Restek, Lot A0108035		(Purchased Reagent)		Atrazine	2000 ug/mL
							Benzaldehyde	2000 ug/mL
							Caprolactam	2000 ug/mL
..SVLVstd9_00001	07/31/16		Restek, Lot A0108709		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Benzidine	2000 ug/mL
..SVLVSURRSPK_00014	05/31/19		Restek, Lot A0103615		(Purchased Reagent)		2,4,6-Tribromophenol (Surr)	5000 ug/mL
							2-Fluorobiphenyl	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL
..svmethylmetha_00011	02/13/20		Absolute, Lot 021315		(Purchased Reagent)		Methyl methanesulfonate	1000 ug/mL
..SVNNITROPYROs_00015	06/05/17		absolute, Lot 060514		(Purchased Reagent)		N-Nitrosopyrrolidine	1000 ug/mL
SVTAPSTD20i_00007	10/23/15	04/23/15	MeCl2, Lot 1417620	1 mL	SVTAPITINTRNi_00007	10 uL	1,4-Dichlorobenzene-d4	4 ug/mL
							Acenaphthene-d10	4 ug/mL
							Chrysene-d12	4 ug/mL
							Naphthalene-d8	4 ug/mL
							Perylene-d12	4 ug/mL
							Phenanthrene-d10	4 ug/mL
					SVTAPITSTCKi_00006	250 uL	Benzo[e]pyrene	10 ug/mL
							2,3,5,6-Tetrachlorophenol	10 ug/mL
							2-Naphthylamine	10 ug/mL
							7,12-Dimethylbenz(a)anthracene	10 ug/mL
							1,1'-Biphenyl	10 ug/mL
							1,2,4,5-Tetrachlorobenzene	10 ug/mL
							1,2,4-Trichlorobenzene	10 ug/mL
							1,2-Dichlorobenzene	10 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48309-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Diphenylhydrazine	10 ug/mL
							1,3-Dichlorobenzene	10 ug/mL
							1,3-Dinitrobenzene	10 ug/mL
							1,4-Dichlorobenzene	10 ug/mL
							1,4-Dioxane	10 ug/mL
							1-Methylnaphthalene	10 ug/mL
							2,2'-oxybis[1-chloropropane]	10 ug/mL
							2,3,4,6-Tetrachlorophenol	10 ug/mL
							2,4,5-Trichlorophenol	10 ug/mL
							2,4,6-Trichlorophenol	10 ug/mL
							2,4-Dichlorophenol	10 ug/mL
							2,4-Dimethylphenol	10 ug/mL
							2,4-Dinitrophenol	20 ug/mL
							2,4-Dinitrotoluene	10 ug/mL
							2,6-Dichlorophenol	10 ug/mL
							2,6-Dinitrotoluene	10 ug/mL
							2-Chloronaphthalene	10 ug/mL
							2-Chlorophenol	10 ug/mL
							2-Methylnaphthalene	10 ug/mL
							2-Methylphenol	10 ug/mL
							2-Nitroaniline	10 ug/mL
							2-Nitrophenol	10 ug/mL
							3-Nitroaniline	10 ug/mL
							4,6-Dinitro-2-methylphenol	20 ug/mL
							4-Bromophenyl phenyl ether	10 ug/mL
							4-Chloro-3-methylphenol	10 ug/mL
							4-Chloroaniline	10 ug/mL
							4-Chlorophenyl phenyl ether	10 ug/mL
							4-Methylphenol	10 ug/mL
							4-Nitroaniline	10 ug/mL
							4-Nitrophenol	20 ug/mL
							Acenaphthene	10 ug/mL
							Acenaphthylene	10 ug/mL
							Acetophenone	10 ug/mL
							Aniline	10 ug/mL
							Anthracene	10 ug/mL
							Benzo[a]anthracene	10 ug/mL
							Benzo[a]pyrene	10 ug/mL
							Benzo[b]fluoranthene	10 ug/mL
							Benzo[g,h,i]perylene	10 ug/mL
							Benzo[k]fluoranthene	10 ug/mL
							Benzyl alcohol	10 ug/mL
							Bis(2-chloroethoxy)methane	10 ug/mL
							Bis(2-chloroethyl)ether	10 ug/mL
							Bis(2-ethylhexyl) phthalate	10 ug/mL
							Butyl benzyl phthalate	10 ug/mL
							Carbazole	10 ug/mL
							Chrysene	10 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48309-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Di-n-butyl phthalate	10 ug/mL
							Di-n-octyl phthalate	10 ug/mL
							Dibenz(a,h)anthracene	10 ug/mL
							Dibenzofuran	10 ug/mL
							Diethyl phthalate	10 ug/mL
							Dimethyl phthalate	10 ug/mL
							Fluoranthene	10 ug/mL
							Fluorene	10 ug/mL
							Hexachlorobenzene	10 ug/mL
							Hexachlorobutadiene	10 ug/mL
							Hexachlorocyclopentadiene	10 ug/mL
							Hexachloroethane	10 ug/mL
							Hexadecane	10 ug/mL
							Indeno[1,2,3-cd]pyrene	10 ug/mL
							Isophorone	10 ug/mL
							n-Decane	10 ug/mL
							N-Nitrosodi-n-propylamine	10 ug/mL
							N-Nitrosodimethylamine	10 ug/mL
							N-Nitrosodiphenylamine	20 ug/mL
							n-Octadecane	10 ug/mL
							Naphthalene	10 ug/mL
							Nitrobenzene	10 ug/mL
							Pentachlorophenol	20 ug/mL
							Phenanthrene	10 ug/mL
							Phenol	10 ug/mL
							Pyrene	10 ug/mL
							Pyridine	10 ug/mL
							Benzoic acid	10 ug/mL
							Indene	10 ug/mL
							Atrazine	10 ug/mL
							Benzaldehyde	10 ug/mL
							Caprolactam	10 ug/mL
							3,3'-Dichlorobenzidine	10 ug/mL
							Benzidine	10 ug/mL
							2,4,6-Tribromophenol (Surr)	10 ug/mL
							2-Fluorobiphenyl	10 ug/mL
							2-Fluorophenol (Surr)	10 ug/mL
							Nitrobenzene-d5 (Surr)	10 ug/mL
							Phenol-d5 (Surr)	10 ug/mL
							Terphenyl-d14 (Surr)	10 ug/mL
							Methyl methanesulfonate	10 ug/mL
							N-Nitrosopyrrolidine	10 ug/mL
.SVTAPITINTRNi_00007	12/03/15	12/03/14	MeCl2, Lot 1417620	25 mL	SVLVIntstd_00004	5 mL	1,4-Dichlorobenzene-d4	400 ug/mL
							Acenaphthene-d10	400 ug/mL
							Chrysene-d12	400 ug/mL
							Naphthalene-d8	400 ug/mL
							Perylene-d12	400 ug/mL
							Phenanthrene-d10	400 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48309-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..SVLVIntstd_00004	02/28/18		Restek, Lot A093676		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
.SVTAPITSTCKi_00006	10/23/15	04/23/15	MeCl2, Lot 1417620	20 mL	sv benzoepyre_00001	800 uL	Benzo[e]pyrene	40 ug/mL
					SV2356TCPs_00002	800 uL	2,3,5,6-Tetrachlorophenol	40 ug/mL
					SV2NAPAMINEs_00002	800 uL	2-Naphthylamine	40 ug/mL
					sv712dimbenza_00011	800 uL	7,12-Dimethylbenz(a)anthracene	40 ug/mL
					SVLVstd1_00032	800 uL	1,1'-Biphenyl	40 ug/mL
							1,2,4,5-Tetrachlorobenzene	40 ug/mL
							1,2,4-Trichlorobenzene	40 ug/mL
							1,2-Dichlorobenzene	40 ug/mL
							1,2-Diphenylhydrazine	40 ug/mL
							1,3-Dichlorobenzene	40 ug/mL
							1,3-Dinitrobenzene	40 ug/mL
							1,4-Dichlorobenzene	40 ug/mL
							1,4-Dioxane	40 ug/mL
							1-Methylnaphthalene	40 ug/mL
							2,2'-oxybis[1-chloropropane]	40 ug/mL
							2,3,4,6-Tetrachlorophenol	40 ug/mL
							2,4,5-Trichlorophenol	40 ug/mL
							2,4,6-Trichlorophenol	40 ug/mL
							2,4-Dichlorophenol	40 ug/mL
							2,4-Dimethylphenol	40 ug/mL
							2,4-Dinitrophenol	80 ug/mL
							2,4-Dinitrotoluene	40 ug/mL
							2,6-Dichlorophenol	40 ug/mL
							2,6-Dinitrotoluene	40 ug/mL
							2-Chloronaphthalene	40 ug/mL
							2-Chlorophenol	40 ug/mL
							2-Methylnaphthalene	40 ug/mL
							2-Methylphenol	40 ug/mL
							2-Nitroaniline	40 ug/mL
							2-Nitrophenol	40 ug/mL
							3-Nitroaniline	40 ug/mL
							4,6-Dinitro-2-methylphenol	80 ug/mL
							4-Bromophenyl phenyl ether	40 ug/mL
							4-Chloro-3-methylphenol	40 ug/mL
							4-Chloroaniline	40 ug/mL
							4-Chlorophenyl phenyl ether	40 ug/mL
							4-Methylphenol	40 ug/mL
							4-Nitroaniline	40 ug/mL
							4-Nitrophenol	80 ug/mL
							Acenaphthene	40 ug/mL
							Acenaphthylene	40 ug/mL
							Acetophenone	40 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48309-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Aniline	40 ug/mL
							Anthracene	40 ug/mL
							Benzo[a]anthracene	40 ug/mL
							Benzo[a]pyrene	40 ug/mL
							Benzo[b]fluoranthene	40 ug/mL
							Benzo[g,h,i]perylene	40 ug/mL
							Benzo[k]fluoranthene	40 ug/mL
							Benzyl alcohol	40 ug/mL
							Bis(2-chloroethoxy)methane	40 ug/mL
							Bis(2-chloroethyl)ether	40 ug/mL
							Bis(2-ethylhexyl) phthalate	40 ug/mL
							Butyl benzyl phthalate	40 ug/mL
							Carbazole	40 ug/mL
							Chrysene	40 ug/mL
							Di-n-butyl phthalate	40 ug/mL
							Di-n-octyl phthalate	40 ug/mL
							Dibenz(a,h)anthracene	40 ug/mL
							Dibenzofuran	40 ug/mL
							Diethyl phthalate	40 ug/mL
							Dimethyl phthalate	40 ug/mL
							Fluoranthene	40 ug/mL
							Fluorene	40 ug/mL
							Hexachlorobenzene	40 ug/mL
							Hexachlorobutadiene	40 ug/mL
							Hexachlorocyclopentadiene	40 ug/mL
							Hexachloroethane	40 ug/mL
							Hexadecane	40 ug/mL
							Indeno[1,2,3-cd]pyrene	40 ug/mL
							Isophorone	40 ug/mL
							n-Decane	40 ug/mL
							N-Nitrosodi-n-propylamine	40 ug/mL
							N-Nitrosodimethylamine	40 ug/mL
							N-Nitrosodiphenylamine	80 ug/mL
							n-Octadecane	40 ug/mL
							Naphthalene	40 ug/mL
							Nitrobenzene	40 ug/mL
							Pentachlorophenol	80 ug/mL
							Phenanthrene	40 ug/mL
							Phenol	40 ug/mL
							Pyrene	40 ug/mL
							Pyridine	40 ug/mL
					SVLVstd10_00001	400 uL	Benzoic acid	40 ug/mL
							Indene	40 ug/mL
					SVLVstd11_00001	400 uL	Atrazine	40 ug/mL
							Benzaldehyde	40 ug/mL
							Caprolactam	40 ug/mL
					SVLVstd9_00001	400 uL	3,3'-Dichlorobenzidine	40 ug/mL
							Benzidine	40 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48309-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					SVLVSURRSPK_00014	160 uL	2,4,6-Tribromophenol (Surr)	40 ug/mL
							2-Fluorobiphenyl	40 ug/mL
							2-Fluorophenol (Surr)	40 ug/mL
							Nitrobenzene-d5 (Surr)	40 ug/mL
							Phenol-d5 (Surr)	40 ug/mL
							Terphenyl-d14 (Surr)	40 ug/mL
					svmethylmetha_00011	800 uL	Methyl methanesulfonate	40 ug/mL
					SVNNITROPYROs_00015	800 uL	N-Nitrosopyrrolidine	40 ug/mL
..sv benzoepyre_00001	10/03/18		Absolute, Lot 100313		(Purchased Reagent)		Benzo[e]pyrene	1000 ug/mL
..SV2356TCPs_00002	06/17/16		Absolute, Lot 061711		(Purchased Reagent)		2,3,5,6-Tetrachlorophenol	1000 ug/mL
..SV2NAPAMINEs_00002	06/30/17		Ultra Scientific, Lot Ck-1617		(Purchased Reagent)		2-Naphthylamine	1000 ug/mL
..sv712dimbenza_00011	04/09/20		Absolute, Lot 040915		(Purchased Reagent)		7,12-Dimethylbenz(a)anthracene	1000 ug/mL
..SVLVstd1_00032	05/31/16		Restek, Lot A0107399		(Purchased Reagent)		1,1'-Biphenyl	1000 ug/mL
							1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2,2'-oxybis[1-chloropropane]	1000 ug/mL
							2,3,4,6-Tetrachlorophenol	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dichlorophenol	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Methylphenol	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48309-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Hexadecane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							n-Decane	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							N-Nitrosodiphenylamine	2000 ug/mL
							n-Octadecane	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	1000 ug/mL
..SVLVstd10_00001	06/30/16		Restek, Lot A0107943		(Purchased Reagent)		Benzoic acid	2000 ug/mL
							Indene	2000 ug/mL
..SVLVstd11_00001	06/30/16		Restek, Lot A0108035		(Purchased Reagent)		Atrazine	2000 ug/mL
							Benzaldehyde	2000 ug/mL
							Caprolactam	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48309-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..SVLVstd9_00001	07/31/16		Restek, Lot A0108709		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Benzidine	2000 ug/mL
..SVLVSURRSPK_00014	05/31/19		Restek, Lot A0103615		(Purchased Reagent)		2,4,6-Tribromophenol (Surr)	5000 ug/mL
							2-Fluorobiphenyl	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL
..svmethylmetha_00011	02/13/20		Absolute, Lot 021315		(Purchased Reagent)		Methyl methanesulfonate	1000 ug/mL
..SVNNITROPYROs_00015	06/05/17		absolute, Lot 060514		(Purchased Reagent)		N-Nitrosopyrrolidine	1000 ug/mL
SVTAPSTD4.0i_00008	10/23/15	04/23/15	MeCl2, Lot 1417620	1 mL	SVTAPITINTRNi_00007	10 uL	1,4-Dichlorobenzene-d4	4 ug/mL
							Acenaphthene-d10	4 ug/mL
							Chrysene-d12	4 ug/mL
							Naphthalene-d8	4 ug/mL
							Perylene-d12	4 ug/mL
							Phenanthrene-d10	4 ug/mL
					SVTAPITSTCKi_00006	50 uL	Benzo[e]pyrene	2 ug/mL
							2,3,5,6-Tetrachlorophenol	2 ug/mL
							2-Naphthylamine	2 ug/mL
							7,12-Dimethylbenz(a)anthracene	2 ug/mL
							1,1'-Biphenyl	2 ug/mL
							1,2,4,5-Tetrachlorobenzene	2 ug/mL
							1,2,4-Trichlorobenzene	2 ug/mL
							1,2-Dichlorobenzene	2 ug/mL
							1,2-Diphenylhydrazine	2 ug/mL
							1,3-Dichlorobenzene	2 ug/mL
							1,3-Dinitrobenzene	2 ug/mL
							1,4-Dichlorobenzene	2 ug/mL
							1,4-Dioxane	2 ug/mL
							1-Methylnaphthalene	2 ug/mL
							2,2'-oxybis[1-chloropropane]	2 ug/mL
							2,3,4,6-Tetrachlorophenol	2 ug/mL
							2,4,5-Trichlorophenol	2 ug/mL
							2,4,6-Trichlorophenol	2 ug/mL
							2,4-Dichlorophenol	2 ug/mL
							2,4-Dimethylphenol	2 ug/mL
							2,4-Dinitrophenol	4 ug/mL
							2,4-Dinitrotoluene	2 ug/mL
							2,6-Dichlorophenol	2 ug/mL
							2,6-Dinitrotoluene	2 ug/mL
							2-Chloronaphthalene	2 ug/mL
							2-Chlorophenol	2 ug/mL
							2-Methylnaphthalene	2 ug/mL
							2-Methylphenol	2 ug/mL
							2-Nitroaniline	2 ug/mL
							2-Nitrophenol	2 ug/mL
							3-Nitroaniline	2 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48309-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4,6-Dinitro-2-methylphenol	4 ug/mL
							4-Bromophenyl phenyl ether	2 ug/mL
							4-Chloro-3-methylphenol	2 ug/mL
							4-Chloroaniline	2 ug/mL
							4-Chlorophenyl phenyl ether	2 ug/mL
							4-Methylphenol	2 ug/mL
							4-Nitroaniline	2 ug/mL
							4-Nitrophenol	4 ug/mL
							Acenaphthene	2 ug/mL
							Acenaphthylene	2 ug/mL
							Acetophenone	2 ug/mL
							Aniline	2 ug/mL
							Anthracene	2 ug/mL
							Benzo[a]anthracene	2 ug/mL
							Benzo[a]pyrene	2 ug/mL
							Benzo[b]fluoranthene	2 ug/mL
							Benzo[g,h,i]perylene	2 ug/mL
							Benzo[k]fluoranthene	2 ug/mL
							Benzyl alcohol	2 ug/mL
							Bis(2-chloroethoxy)methane	2 ug/mL
							Bis(2-chloroethyl)ether	2 ug/mL
							Bis(2-ethylhexyl) phthalate	2 ug/mL
							Butyl benzyl phthalate	2 ug/mL
							Carbazole	2 ug/mL
							Chrysene	2 ug/mL
							Di-n-butyl phthalate	2 ug/mL
							Di-n-octyl phthalate	2 ug/mL
							Dibenz(a,h)anthracene	2 ug/mL
							Dibenzofuran	2 ug/mL
							Diethyl phthalate	2 ug/mL
							Dimethyl phthalate	2 ug/mL
							Fluoranthene	2 ug/mL
							Fluorene	2 ug/mL
							Hexachlorobenzene	2 ug/mL
							Hexachlorobutadiene	2 ug/mL
							Hexachlorocyclopentadiene	2 ug/mL
							Hexachloroethane	2 ug/mL
							Hexadecane	2 ug/mL
							Indeno[1,2,3-cd]pyrene	2 ug/mL
							Isophorone	2 ug/mL
							n-Decane	2 ug/mL
							N-Nitrosodi-n-propylamine	2 ug/mL
							N-Nitrosodimethylamine	2 ug/mL
							N-Nitrosodiphenylamine	4 ug/mL
							n-Octadecane	2 ug/mL
							Naphthalene	2 ug/mL
							Nitrobenzene	2 ug/mL
							Pentachlorophenol	4 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48309-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Phenanthrene	2 ug/mL
							Phenol	2 ug/mL
							Pyrene	2 ug/mL
							Pyridine	2 ug/mL
							Benzoic acid	2 ug/mL
							Indene	2 ug/mL
							Atrazine	2 ug/mL
							Benzaldehyde	2 ug/mL
							Caprolactam	2 ug/mL
							3,3'-Dichlorobenzidine	2 ug/mL
							Benzidine	2 ug/mL
							2,4,6-Tribromophenol (Surr)	2 ug/mL
							2-Fluorobiphenyl	2 ug/mL
							2-Fluorophenol (Surr)	2 ug/mL
							Nitrobenzene-d5 (Surr)	2 ug/mL
							Phenol-d5 (Surr)	2 ug/mL
							Terphenyl-d14 (Surr)	2 ug/mL
							Methyl methanesulfonate	2 ug/mL
							N-Nitrosopyrrolidine	2 ug/mL
.SVTAPITINTRNi_00007	12/03/15	12/03/14	MeCl2, Lot 1417620	25 mL	SVLVIntstd_00004	5 mL	1,4-Dichlorobenzene-d4	400 ug/mL
							Acenaphthene-d10	400 ug/mL
							Chrysene-d12	400 ug/mL
							Naphthalene-d8	400 ug/mL
							Perylene-d12	400 ug/mL
							Phenanthrene-d10	400 ug/mL
..SVLVIntstd_00004	02/28/18		Restek, Lot A093676		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
.SVTAPITSTCKi_00006	10/23/15	04/23/15	MeCl2, Lot 1417620	20 mL	sv benzoepyre_00001	800 uL	Benzo[e]pyrene	40 ug/mL
					SV2356TCPs_00002	800 uL	2,3,5,6-Tetrachlorophenol	40 ug/mL
					SV2NAPAMINEs_00002	800 uL	2-Naphthylamine	40 ug/mL
					sv712dimbenza_00011	800 uL	7,12-Dimethylbenz(a)anthracene	40 ug/mL
					SVLVstd1_00032	800 uL	1,1'-Biphenyl	40 ug/mL
							1,2,4,5-Tetrachlorobenzene	40 ug/mL
							1,2,4-Trichlorobenzene	40 ug/mL
							1,2-Dichlorobenzene	40 ug/mL
							1,2-Diphenylhydrazine	40 ug/mL
							1,3-Dichlorobenzene	40 ug/mL
							1,3-Dinitrobenzene	40 ug/mL
							1,4-Dichlorobenzene	40 ug/mL
							1,4-Dioxane	40 ug/mL
							1-Methylnaphthalene	40 ug/mL
							2,2'-oxybis[1-chloropropane]	40 ug/mL
							2,3,4,6-Tetrachlorophenol	40 ug/mL
							2,4,5-Trichlorophenol	40 ug/mL

Lab Name: TestAmerica Pittsburgh Job No.: 180-48309-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,4,6-Trichlorophenol	40 ug/mL
							2,4-Dichlorophenol	40 ug/mL
							2,4-Dimethylphenol	40 ug/mL
							2,4-Dinitrophenol	80 ug/mL
							2,4-Dinitrotoluene	40 ug/mL
							2,6-Dichlorophenol	40 ug/mL
							2,6-Dinitrotoluene	40 ug/mL
							2-Chloronaphthalene	40 ug/mL
							2-Chlorophenol	40 ug/mL
							2-Methylnaphthalene	40 ug/mL
							2-Methylphenol	40 ug/mL
							2-Nitroaniline	40 ug/mL
							2-Nitrophenol	40 ug/mL
							3-Nitroaniline	40 ug/mL
							4,6-Dinitro-2-methylphenol	80 ug/mL
							4-Bromophenyl phenyl ether	40 ug/mL
							4-Chloro-3-methylphenol	40 ug/mL
							4-Chloroaniline	40 ug/mL
							4-Chlorophenyl phenyl ether	40 ug/mL
							4-Methylphenol	40 ug/mL
							4-Nitroaniline	40 ug/mL
							4-Nitrophenol	80 ug/mL
							Acenaphthene	40 ug/mL
							Acenaphthylene	40 ug/mL
							Acetophenone	40 ug/mL
							Aniline	40 ug/mL
							Anthracene	40 ug/mL
							Benzo[a]anthracene	40 ug/mL
							Benzo[a]pyrene	40 ug/mL
							Benzo[b]fluoranthene	40 ug/mL
							Benzo[g,h,i]perylene	40 ug/mL
							Benzo[k]fluoranthene	40 ug/mL
							Benzyl alcohol	40 ug/mL
							Bis(2-chloroethoxy)methane	40 ug/mL
							Bis(2-chloroethyl)ether	40 ug/mL
							Bis(2-ethylhexyl) phthalate	40 ug/mL
							Butyl benzyl phthalate	40 ug/mL
							Carbazole	40 ug/mL
							Chrysene	40 ug/mL
							Di-n-butyl phthalate	40 ug/mL
							Di-n-octyl phthalate	40 ug/mL
							Dibenz(a,h)anthracene	40 ug/mL
							Dibenzofuran	40 ug/mL
							Diethyl phthalate	40 ug/mL
							Dimethyl phthalate	40 ug/mL
							Fluoranthene	40 ug/mL
							Fluorene	40 ug/mL
							Hexachlorobenzene	40 ug/mL

Lab Name: TestAmerica Pittsburgh Job No.: 180-48309-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Hexachlorobutadiene	40 ug/mL
							Hexachlorocyclopentadiene	40 ug/mL
							Hexachloroethane	40 ug/mL
							Hexadecane	40 ug/mL
							Indeno[1,2,3-cd]pyrene	40 ug/mL
							Isophorone	40 ug/mL
							n-Decane	40 ug/mL
							N-Nitrosodi-n-propylamine	40 ug/mL
							N-Nitrosodimethylamine	40 ug/mL
							N-Nitrosodiphenylamine	80 ug/mL
							n-Octadecane	40 ug/mL
							Naphthalene	40 ug/mL
							Nitrobenzene	40 ug/mL
							Pentachlorophenol	80 ug/mL
							Phenanthrene	40 ug/mL
							Phenol	40 ug/mL
							Pyrene	40 ug/mL
							Pyridine	40 ug/mL
					SVLVstd10_00001	400 uL	Benzoic acid	40 ug/mL
							Indene	40 ug/mL
					SVLVstd11_00001	400 uL	Atrazine	40 ug/mL
							Benzaldehyde	40 ug/mL
							Caprolactam	40 ug/mL
					SVLVstd9_00001	400 uL	3,3'-Dichlorobenzidine	40 ug/mL
							Benzidine	40 ug/mL
					SVLVSURRSPK_00014	160 uL	2,4,6-Tribromophenol (Surr)	40 ug/mL
							2-Fluorobiphenyl	40 ug/mL
							2-Fluorophenol (Surr)	40 ug/mL
							Nitrobenzene-d5 (Surr)	40 ug/mL
							Phenol-d5 (Surr)	40 ug/mL
							Terphenyl-d14 (Surr)	40 ug/mL
					svmethylmetha_00011	800 uL	Methyl methanesulfonate	40 ug/mL
					SVNNITROPYROs_00015	800 uL	N-Nitrosopyrrolidine	40 ug/mL
..sv benzoepyre_00001	10/03/18		Absolute, Lot 100313		(Purchased Reagent)		Benzo[e]pyrene	1000 ug/mL
..SV2356TCPs_00002	06/17/16		Absolute, Lot 061711		(Purchased Reagent)		2,3,5,6-Tetrachlorophenol	1000 ug/mL
..SV2NAPAMINEs_00002	06/30/17		Ultra Scientific, Lot Ck-1617		(Purchased Reagent)		2-Naphthylamine	1000 ug/mL
..sv712dimbenza_00011	04/09/20		Absolute, Lot 040915		(Purchased Reagent)		7,12-Dimethylbenz(a)anthracene	1000 ug/mL
..SVLVstd1_00032	05/31/16		Restek, Lot A0107399		(Purchased Reagent)		1,1'-Biphenyl	1000 ug/mL
							1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2,2'-oxybis[1-chloropropane]	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48309-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,3,4,6-Tetrachlorophenol	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dichlorophenol	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Methylphenol	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Fluoranthene	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48309-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Hexadecane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							n-Decane	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							N-Nitrosodiphenylamine	2000 ug/mL
							n-Octadecane	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	1000 ug/mL
..SVLVstd10_00001	06/30/16		Restek, Lot A0107943		(Purchased Reagent)		Benzoic acid	2000 ug/mL
							Indene	2000 ug/mL
..SVLVstd11_00001	06/30/16		Restek, Lot A0108035		(Purchased Reagent)		Atrazine	2000 ug/mL
							Benzaldehyde	2000 ug/mL
							Caprolactam	2000 ug/mL
..SVLVstd9_00001	07/31/16		Restek, Lot A0108709		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Benzidine	2000 ug/mL
..SVLVSURRSPK_00014	05/31/19		Restek, Lot A0103615		(Purchased Reagent)		2,4,6-Tribromophenol (Surr)	5000 ug/mL
							2-Fluorobiphenyl	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL
..svmethylmetha_00011	02/13/20		Absolute, Lot 021315		(Purchased Reagent)		Methyl methanesulfonate	1000 ug/mL
..SVNNITROPYROs_00015	06/05/17		absolute, Lot 060514		(Purchased Reagent)		N-Nitrosopyrrolidine	1000 ug/mL
SVTAPSTD40i_00007	10/23/15	04/23/15	MeCl2, Lot 1417620	1 mL	SVTAPITINTRNi_00007	10 uL	1,4-Dichlorobenzene-d4	4 ug/mL
							Acenaphthene-d10	4 ug/mL
							Chrysene-d12	4 ug/mL
							Naphthalene-d8	4 ug/mL
							Perylene-d12	4 ug/mL
							Phenanthrene-d10	4 ug/mL
					SVTAPITSTCKi_00006	500 uL	Benzo[e]pyrene	20 ug/mL
							2,3,5,6-Tetrachlorophenol	20 ug/mL
							2-Naphthylamine	20 ug/mL
							7,12-Dimethylbenz(a)anthracene	20 ug/mL
							1,1'-Biphenyl	20 ug/mL
							1,2,4,5-Tetrachlorobenzene	20 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48309-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2,4-Trichlorobenzene	20 ug/mL
							1,2-Dichlorobenzene	20 ug/mL
							1,2-Diphenylhydrazine	20 ug/mL
							1,3-Dichlorobenzene	20 ug/mL
							1,3-Dinitrobenzene	20 ug/mL
							1,4-Dichlorobenzene	20 ug/mL
							1,4-Dioxane	20 ug/mL
							1-Methylnaphthalene	20 ug/mL
							2,2'-oxybis[1-chloropropane]	20 ug/mL
							2,3,4,6-Tetrachlorophenol	20 ug/mL
							2,4,5-Trichlorophenol	20 ug/mL
							2,4,6-Trichlorophenol	20 ug/mL
							2,4-Dichlorophenol	20 ug/mL
							2,4-Dimethylphenol	20 ug/mL
							2,4-Dinitrophenol	40 ug/mL
							2,4-Dinitrotoluene	20 ug/mL
							2,6-Dichlorophenol	20 ug/mL
							2,6-Dinitrotoluene	20 ug/mL
							2-Chloronaphthalene	20 ug/mL
							2-Chlorophenol	20 ug/mL
							2-Methylnaphthalene	20 ug/mL
							2-Methylphenol	20 ug/mL
							2-Nitroaniline	20 ug/mL
							2-Nitrophenol	20 ug/mL
							3-Nitroaniline	20 ug/mL
							4,6-Dinitro-2-methylphenol	40 ug/mL
							4-Bromophenyl phenyl ether	20 ug/mL
							4-Chloro-3-methylphenol	20 ug/mL
							4-Chloroaniline	20 ug/mL
							4-Chlorophenyl phenyl ether	20 ug/mL
							4-Methylphenol	20 ug/mL
							4-Nitroaniline	20 ug/mL
							4-Nitrophenol	40 ug/mL
							Acenaphthene	20 ug/mL
							Acenaphthylene	20 ug/mL
							Acetophenone	20 ug/mL
							Aniline	20 ug/mL
							Anthracene	20 ug/mL
							Benzo[a]anthracene	20 ug/mL
							Benzo[a]pyrene	20 ug/mL
							Benzo[b]fluoranthene	20 ug/mL
							Benzo[g,h,i]perylene	20 ug/mL
							Benzo[k]fluoranthene	20 ug/mL
							Benzyl alcohol	20 ug/mL
							Bis(2-chloroethoxy)methane	20 ug/mL
							Bis(2-chloroethyl)ether	20 ug/mL
							Bis(2-ethylhexyl) phthalate	20 ug/mL
							Butyl benzyl phthalate	20 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48309-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Carbazole	20 ug/mL
							Chrysene	20 ug/mL
							Di-n-butyl phthalate	20 ug/mL
							Di-n-octyl phthalate	20 ug/mL
							Dibenz(a,h)anthracene	20 ug/mL
							Dibenzofuran	20 ug/mL
							Diethyl phthalate	20 ug/mL
							Dimethyl phthalate	20 ug/mL
							Fluoranthene	20 ug/mL
							Fluorene	20 ug/mL
							Hexachlorobenzene	20 ug/mL
							Hexachlorobutadiene	20 ug/mL
							Hexachlorocyclopentadiene	20 ug/mL
							Hexachloroethane	20 ug/mL
							Hexadecane	20 ug/mL
							Indeno[1,2,3-cd]pyrene	20 ug/mL
							Isophorone	20 ug/mL
							n-Decane	20 ug/mL
							N-Nitrosodi-n-propylamine	20 ug/mL
							N-Nitrosodimethylamine	20 ug/mL
							N-Nitrosodiphenylamine	40 ug/mL
							n-Octadecane	20 ug/mL
							Naphthalene	20 ug/mL
							Nitrobenzene	20 ug/mL
							Pentachlorophenol	40 ug/mL
							Phenanthrene	20 ug/mL
							Phenol	20 ug/mL
							Pyrene	20 ug/mL
							Pyridine	20 ug/mL
							Benzoic acid	20 ug/mL
							Indene	20 ug/mL
							Atrazine	20 ug/mL
							Benzaldehyde	20 ug/mL
							Caprolactam	20 ug/mL
							3,3'-Dichlorobenzidine	20 ug/mL
							Benzidine	20 ug/mL
							2,4,6-Tribromophenol (Surr)	20 ug/mL
							2-Fluorobiphenyl	20 ug/mL
							2-Fluorophenol (Surr)	20 ug/mL
							Nitrobenzene-d5 (Surr)	20 ug/mL
							Phenol-d5 (Surr)	20 ug/mL
							Terphenyl-d14 (Surr)	20 ug/mL
							Methyl methanesulfonate	20 ug/mL
							N-Nitrosopyrrolidine	20 ug/mL
.SVTAPITINTRNi_00007	12/03/15	12/03/14	MeCl2, Lot 1417620	25 mL	SVLVIntstd_00004	5 mL	1,4-Dichlorobenzene-d4	400 ug/mL
							Acenaphthene-d10	400 ug/mL
							Chrysene-d12	400 ug/mL
							Naphthalene-d8	400 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48309-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Perylene-d12	400 ug/mL
							Phenanthrene-d10	400 ug/mL
..SVLVIntstd_00004	02/28/18		Restek, Lot A093676		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
.SVTAPITSTCKi_00006	10/23/15	04/23/15	MeCl2, Lot 1417620	20 mL	sv benzoepyre_00001	800 uL	Benzo[e]pyrene	40 ug/mL
					SV2356TCPs_00002	800 uL	2,3,5,6-Tetrachlorophenol	40 ug/mL
					SV2NAPAMINEs_00002	800 uL	2-Naphthylamine	40 ug/mL
					sv712dimbenza_00011	800 uL	7,12-Dimethylbenz(a)anthracene	40 ug/mL
					SVLVstd1_00032	800 uL	1,1'-Biphenyl	40 ug/mL
							1,2,4,5-Tetrachlorobenzene	40 ug/mL
							1,2,4-Trichlorobenzene	40 ug/mL
							1,2-Dichlorobenzene	40 ug/mL
							1,2-Diphenylhydrazine	40 ug/mL
							1,3-Dichlorobenzene	40 ug/mL
							1,3-Dinitrobenzene	40 ug/mL
							1,4-Dichlorobenzene	40 ug/mL
							1,4-Dioxane	40 ug/mL
							1-Methylnaphthalene	40 ug/mL
							2,2'-oxybis[1-chloropropane]	40 ug/mL
							2,3,4,6-Tetrachlorophenol	40 ug/mL
							2,4,5-Trichlorophenol	40 ug/mL
							2,4,6-Trichlorophenol	40 ug/mL
							2,4-Dichlorophenol	40 ug/mL
							2,4-Dimethylphenol	40 ug/mL
							2,4-Dinitrophenol	80 ug/mL
							2,4-Dinitrotoluene	40 ug/mL
							2,6-Dichlorophenol	40 ug/mL
							2,6-Dinitrotoluene	40 ug/mL
							2-Chloronaphthalene	40 ug/mL
							2-Chlorophenol	40 ug/mL
							2-Methylnaphthalene	40 ug/mL
							2-Methylphenol	40 ug/mL
							2-Nitroaniline	40 ug/mL
							2-Nitrophenol	40 ug/mL
							3-Nitroaniline	40 ug/mL
							4,6-Dinitro-2-methylphenol	80 ug/mL
							4-Bromophenyl phenyl ether	40 ug/mL
							4-Chloro-3-methylphenol	40 ug/mL
							4-Chloroaniline	40 ug/mL
							4-Chlorophenyl phenyl ether	40 ug/mL
							4-Methylphenol	40 ug/mL
							4-Nitroaniline	40 ug/mL
							4-Nitrophenol	80 ug/mL
							Acenaphthene	40 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48309-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Acenaphthylene	40 ug/mL
							Acetophenone	40 ug/mL
							Aniline	40 ug/mL
							Anthracene	40 ug/mL
							Benzo[a]anthracene	40 ug/mL
							Benzo[a]pyrene	40 ug/mL
							Benzo[b]fluoranthene	40 ug/mL
							Benzo[g,h,i]perylene	40 ug/mL
							Benzo[k]fluoranthene	40 ug/mL
							Benzyl alcohol	40 ug/mL
							Bis(2-chloroethoxy)methane	40 ug/mL
							Bis(2-chloroethyl)ether	40 ug/mL
							Bis(2-ethylhexyl) phthalate	40 ug/mL
							Butyl benzyl phthalate	40 ug/mL
							Carbazole	40 ug/mL
							Chrysene	40 ug/mL
							Di-n-butyl phthalate	40 ug/mL
							Di-n-octyl phthalate	40 ug/mL
							Dibenz(a,h)anthracene	40 ug/mL
							Dibenzofuran	40 ug/mL
							Diethyl phthalate	40 ug/mL
							Dimethyl phthalate	40 ug/mL
							Fluoranthene	40 ug/mL
							Fluorene	40 ug/mL
							Hexachlorobenzene	40 ug/mL
							Hexachlorobutadiene	40 ug/mL
							Hexachlorocyclopentadiene	40 ug/mL
							Hexachloroethane	40 ug/mL
							Hexadecane	40 ug/mL
							Indeno[1,2,3-cd]pyrene	40 ug/mL
							Isophorone	40 ug/mL
							n-Decane	40 ug/mL
							N-Nitrosodi-n-propylamine	40 ug/mL
							N-Nitrosodimethylamine	40 ug/mL
							N-Nitrosodiphenylamine	80 ug/mL
							n-Octadecane	40 ug/mL
							Naphthalene	40 ug/mL
							Nitrobenzene	40 ug/mL
							Pentachlorophenol	80 ug/mL
							Phenanthrene	40 ug/mL
							Phenol	40 ug/mL
							Pyrene	40 ug/mL
							Pyridine	40 ug/mL
					SVLVstd10_00001	400 uL	Benzoic acid	40 ug/mL
							Indene	40 ug/mL
					SVLVstd11_00001	400 uL	Atrazine	40 ug/mL
							Benzaldehyde	40 ug/mL
							Caprolactam	40 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48309-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					SVLVstd9_00001	400 uL	3,3'-Dichlorobenzidine	40 ug/mL
							Benzidine	40 ug/mL
					SVLVSURRSPK_00014	160 uL	2,4,6-Tribromophenol (Surr)	40 ug/mL
							2-Fluorobiphenyl	40 ug/mL
							2-Fluorophenol (Surr)	40 ug/mL
							Nitrobenzene-d5 (Surr)	40 ug/mL
							Phenol-d5 (Surr)	40 ug/mL
							Terphenyl-d14 (Surr)	40 ug/mL
					svmethylmetha_00011	800 uL	Methyl methanesulfonate	40 ug/mL
					SVNNITROPYROs_00015	800 uL	N-Nitrosopyrrolidine	40 ug/mL
..sv benzoepyre_00001	10/03/18		Absolute, Lot 100313		(Purchased Reagent)		Benzo[e]pyrene	1000 ug/mL
..SV2356TCPs_00002	06/17/16		Absolute, Lot 061711		(Purchased Reagent)		2,3,5,6-Tetrachlorophenol	1000 ug/mL
..SV2NAPAMINEs_00002	06/30/17		Ultra Scientific, Lot Ck-1617		(Purchased Reagent)		2-Naphthylamine	1000 ug/mL
..sv712dimbenza_00011	04/09/20		Absolute, Lot 040915		(Purchased Reagent)		7,12-Dimethylbenz(a)anthracene	1000 ug/mL
..SVLVstd1_00032	05/31/16		Restek, Lot A0107399		(Purchased Reagent)		1,1'-Biphenyl	1000 ug/mL
							1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2,2'-oxybis[1-chloropropane]	1000 ug/mL
							2,3,4,6-Tetrachlorophenol	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dichlorophenol	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Methylphenol	1000 ug/mL
							4-Nitroaniline	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48309-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Hexadecane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							n-Decane	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							N-Nitrosodiphenylamine	2000 ug/mL
							n-Octadecane	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	1000 ug/mL
..SVLVstd10_00001	06/30/16		Restek, Lot A0107943		(Purchased Reagent)		Benzoic acid	2000 ug/mL
							Indene	2000 ug/mL
..SVLVstd11_00001	06/30/16		Restek, Lot A0108035		(Purchased Reagent)		Atrazine	2000 ug/mL

Lab Name: TestAmerica Pittsburgh Job No.: 180-48309-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzaldehyde	2000 ug/mL
							Caprolactam	2000 ug/mL
..SVLVstd9_00001	07/31/16		Restek, Lot A0108709		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Benzidine	2000 ug/mL
..SVLVSURRSPK_00014	05/31/19		Restek, Lot A0103615		(Purchased Reagent)		2,4,6-Tribromophenol (Surr)	5000 ug/mL
							2-Fluorobiphenyl	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL
..svmethylmetha_00011	02/13/20		Absolute, Lot 021315		(Purchased Reagent)		Methyl methanesulfonate	1000 ug/mL
..SVNNITROPYROs_00015	06/05/17		absolute, Lot 060514		(Purchased Reagent)		N-Nitrosopyrrolidine	1000 ug/mL
SVTAPSTD60i_00007	10/23/15	04/23/15	MeCl2, Lot 1417620	1 mL	SVTAPITINTRNi_00007	10 uL	1,4-Dichlorobenzene-d4	4 ug/mL
							Acenaphthene-d10	4 ug/mL
							Chrysene-d12	4 ug/mL
							Naphthalene-d8	4 ug/mL
							Perylene-d12	4 ug/mL
							Phenanthrene-d10	4 ug/mL
					SVTAPITSTCKi_00006	750 uL	Benzo[e]pyrene	30 ug/mL
							2,3,5,6-Tetrachlorophenol	30 ug/mL
							2-Naphthylamine	30 ug/mL
							7,12-Dimethylbenz(a)anthracene	30 ug/mL
							1,1'-Biphenyl	30 ug/mL
							1,2,4,5-Tetrachlorobenzene	30 ug/mL
							1,2,4-Trichlorobenzene	30 ug/mL
							1,2-Dichlorobenzene	30 ug/mL
							1,2-Diphenylhydrazine	30 ug/mL
							1,3-Dichlorobenzene	30 ug/mL
							1,3-Dinitrobenzene	30 ug/mL
							1,4-Dichlorobenzene	30 ug/mL
							1,4-Dioxane	30 ug/mL
							1-Methylnaphthalene	30 ug/mL
							2,2'-oxybis[1-chloropropane]	30 ug/mL
							2,3,4,6-Tetrachlorophenol	30 ug/mL
							2,4,5-Trichlorophenol	30 ug/mL
							2,4,6-Trichlorophenol	30 ug/mL
							2,4-Dichlorophenol	30 ug/mL
							2,4-Dimethylphenol	30 ug/mL
							2,4-Dinitrophenol	60 ug/mL
							2,4-Dinitrotoluene	30 ug/mL
							2,6-Dichlorophenol	30 ug/mL
							2,6-Dinitrotoluene	30 ug/mL
							2-Chloronaphthalene	30 ug/mL
							2-Chlorophenol	30 ug/mL
							2-Methylnaphthalene	30 ug/mL
							2-Methylphenol	30 ug/mL
							2-Nitroaniline	30 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48309-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Nitrophenol	30 ug/mL
							3-Nitroaniline	30 ug/mL
							4,6-Dinitro-2-methylphenol	60 ug/mL
							4-Bromophenyl phenyl ether	30 ug/mL
							4-Chloro-3-methylphenol	30 ug/mL
							4-Chloroaniline	30 ug/mL
							4-Chlorophenyl phenyl ether	30 ug/mL
							4-Methylphenol	30 ug/mL
							4-Nitroaniline	30 ug/mL
							4-Nitrophenol	60 ug/mL
							Acenaphthene	30 ug/mL
							Acenaphthylene	30 ug/mL
							Acetophenone	30 ug/mL
							Aniline	30 ug/mL
							Anthracene	30 ug/mL
							Benzo[a]anthracene	30 ug/mL
							Benzo[a]pyrene	30 ug/mL
							Benzo[b]fluoranthene	30 ug/mL
							Benzo[g,h,i]perylene	30 ug/mL
							Benzo[k]fluoranthene	30 ug/mL
							Benzyl alcohol	30 ug/mL
							Bis(2-chloroethoxy)methane	30 ug/mL
							Bis(2-chloroethyl)ether	30 ug/mL
							Bis(2-ethylhexyl) phthalate	30 ug/mL
							Butyl benzyl phthalate	30 ug/mL
							Carbazole	30 ug/mL
							Chrysene	30 ug/mL
							Di-n-butyl phthalate	30 ug/mL
							Di-n-octyl phthalate	30 ug/mL
							Dibenz(a,h)anthracene	30 ug/mL
							Dibenzofuran	30 ug/mL
							Diethyl phthalate	30 ug/mL
							Dimethyl phthalate	30 ug/mL
							Fluoranthene	30 ug/mL
							Fluorene	30 ug/mL
							Hexachlorobenzene	30 ug/mL
							Hexachlorobutadiene	30 ug/mL
							Hexachlorocyclopentadiene	30 ug/mL
							Hexachloroethane	30 ug/mL
							Hexadecane	30 ug/mL
							Indeno[1,2,3-cd]pyrene	30 ug/mL
							Isophorone	30 ug/mL
							n-Decane	30 ug/mL
							N-Nitrosodi-n-propylamine	30 ug/mL
							N-Nitrosodimethylamine	30 ug/mL
							N-Nitrosodiphenylamine	60 ug/mL
							n-Octadecane	30 ug/mL
							Naphthalene	30 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48309-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Nitrobenzene	30 ug/mL
							Pentachlorophenol	60 ug/mL
							Phenanthrene	30 ug/mL
							Phenol	30 ug/mL
							Pyrene	30 ug/mL
							Pyridine	30 ug/mL
							Benzoic acid	30 ug/mL
							Indene	30 ug/mL
							Atrazine	30 ug/mL
							Benzaldehyde	30 ug/mL
							Caprolactam	30 ug/mL
							3,3'-Dichlorobenzidine	30 ug/mL
							Benzidine	30 ug/mL
							2,4,6-Tribromophenol (Surr)	30 ug/mL
							2-Fluorobiphenyl	30 ug/mL
							2-Fluorophenol (Surr)	30 ug/mL
							Nitrobenzene-d5 (Surr)	30 ug/mL
							Phenol-d5 (Surr)	30 ug/mL
							Terphenyl-d14 (Surr)	30 ug/mL
							Methyl methanesulfonate	30 ug/mL
							N-Nitrosopyrrolidine	30 ug/mL
.SVTAPITINTRNi_00007	12/03/15	12/03/14	MeCl2, Lot 1417620	25 mL	SVLVIntstd_00004	5 mL	1,4-Dichlorobenzene-d4	400 ug/mL
							Acenaphthene-d10	400 ug/mL
							Chrysene-d12	400 ug/mL
							Naphthalene-d8	400 ug/mL
							Perylene-d12	400 ug/mL
							Phenanthrene-d10	400 ug/mL
..SVLVIntstd_00004	02/28/18		Restek, Lot A093676		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
.SVTAPITSTCKi_00006	10/23/15	04/23/15	MeCl2, Lot 1417620	20 mL	sv benzoepyre_00001	800 uL	Benzo[e]pyrene	40 ug/mL
					SV2356TCPs_00002	800 uL	2,3,5,6-Tetrachlorophenol	40 ug/mL
					SV2NAPAMINEs_00002	800 uL	2-Naphthylamine	40 ug/mL
					sv712dimbenza_00011	800 uL	7,12-Dimethylbenz(a)anthracene	40 ug/mL
					SVLVstd1_00032	800 uL	1,1'-Biphenyl	40 ug/mL
							1,2,4,5-Tetrachlorobenzene	40 ug/mL
							1,2,4-Trichlorobenzene	40 ug/mL
							1,2-Dichlorobenzene	40 ug/mL
							1,2-Diphenylhydrazine	40 ug/mL
							1,3-Dichlorobenzene	40 ug/mL
							1,3-Dinitrobenzene	40 ug/mL
							1,4-Dichlorobenzene	40 ug/mL
							1,4-Dioxane	40 ug/mL
							1-Methylnaphthalene	40 ug/mL
							2,2'-oxybis[1-chloropropane]	40 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48309-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,3,4,6-Tetrachlorophenol	40 ug/mL
							2,4,5-Trichlorophenol	40 ug/mL
							2,4,6-Trichlorophenol	40 ug/mL
							2,4-Dichlorophenol	40 ug/mL
							2,4-Dimethylphenol	40 ug/mL
							2,4-Dinitrophenol	80 ug/mL
							2,4-Dinitrotoluene	40 ug/mL
							2,6-Dichlorophenol	40 ug/mL
							2,6-Dinitrotoluene	40 ug/mL
							2-Chloronaphthalene	40 ug/mL
							2-Chlorophenol	40 ug/mL
							2-Methylnaphthalene	40 ug/mL
							2-Methylphenol	40 ug/mL
							2-Nitroaniline	40 ug/mL
							2-Nitrophenol	40 ug/mL
							3-Nitroaniline	40 ug/mL
							4,6-Dinitro-2-methylphenol	80 ug/mL
							4-Bromophenyl phenyl ether	40 ug/mL
							4-Chloro-3-methylphenol	40 ug/mL
							4-Chloroaniline	40 ug/mL
							4-Chlorophenyl phenyl ether	40 ug/mL
							4-Methylphenol	40 ug/mL
							4-Nitroaniline	40 ug/mL
							4-Nitrophenol	80 ug/mL
							Acenaphthene	40 ug/mL
							Acenaphthylene	40 ug/mL
							Acetophenone	40 ug/mL
							Aniline	40 ug/mL
							Anthracene	40 ug/mL
							Benzo[a]anthracene	40 ug/mL
							Benzo[a]pyrene	40 ug/mL
							Benzo[b]fluoranthene	40 ug/mL
							Benzo[g,h,i]perylene	40 ug/mL
							Benzo[k]fluoranthene	40 ug/mL
							Benzyl alcohol	40 ug/mL
							Bis(2-chloroethoxy)methane	40 ug/mL
							Bis(2-chloroethyl)ether	40 ug/mL
							Bis(2-ethylhexyl) phthalate	40 ug/mL
							Butyl benzyl phthalate	40 ug/mL
							Carbazole	40 ug/mL
							Chrysene	40 ug/mL
							Di-n-butyl phthalate	40 ug/mL
							Di-n-octyl phthalate	40 ug/mL
							Dibenz(a,h)anthracene	40 ug/mL
							Dibenzofuran	40 ug/mL
							Diethyl phthalate	40 ug/mL
							Dimethyl phthalate	40 ug/mL
							Fluoranthene	40 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48309-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Fluorene	40 ug/mL
							Hexachlorobenzene	40 ug/mL
							Hexachlorobutadiene	40 ug/mL
							Hexachlorocyclopentadiene	40 ug/mL
							Hexachloroethane	40 ug/mL
							Hexadecane	40 ug/mL
							Indeno[1,2,3-cd]pyrene	40 ug/mL
							Isophorone	40 ug/mL
							n-Decane	40 ug/mL
							N-Nitrosodi-n-propylamine	40 ug/mL
							N-Nitrosodimethylamine	40 ug/mL
							N-Nitrosodiphenylamine	80 ug/mL
							n-Octadecane	40 ug/mL
							Naphthalene	40 ug/mL
							Nitrobenzene	40 ug/mL
							Pentachlorophenol	80 ug/mL
							Phenanthrene	40 ug/mL
							Phenol	40 ug/mL
							Pyrene	40 ug/mL
							Pyridine	40 ug/mL
					SVLVstd10_00001	400 uL	Benzoic acid	40 ug/mL
							Indene	40 ug/mL
					SVLVstd11_00001	400 uL	Atrazine	40 ug/mL
							Benzaldehyde	40 ug/mL
							Caprolactam	40 ug/mL
					SVLVstd9_00001	400 uL	3,3'-Dichlorobenzidine	40 ug/mL
							Benzidine	40 ug/mL
					SVLVSURRSPK_00014	160 uL	2,4,6-Tribromophenol (Surr)	40 ug/mL
							2-Fluorobiphenyl	40 ug/mL
							2-Fluorophenol (Surr)	40 ug/mL
							Nitrobenzene-d5 (Surr)	40 ug/mL
							Phenol-d5 (Surr)	40 ug/mL
							Terphenyl-d14 (Surr)	40 ug/mL
					svmethylmetha_00011	800 uL	Methyl methanesulfonate	40 ug/mL
					SVNNITROPYROs_00015	800 uL	N-Nitrosopyrrolidine	40 ug/mL
..sv benzoepyre_00001	10/03/18		Absolute, Lot 100313		(Purchased Reagent)		Benzo[e]pyrene	1000 ug/mL
..SV2356TCPs_00002	06/17/16		Absolute, Lot 061711		(Purchased Reagent)		2,3,5,6-Tetrachlorophenol	1000 ug/mL
..SV2NAPAMINEs_00002	06/30/17		Ultra Scientific, Lot Ck-1617		(Purchased Reagent)		2-Naphthylamine	1000 ug/mL
..sv712dimbenza_00011	04/09/20		Absolute, Lot 040915		(Purchased Reagent)		7,12-Dimethylbenz(a)anthracene	1000 ug/mL
..SVLVstd1_00032	05/31/16		Restek, Lot A0107399		(Purchased Reagent)		1,1'-Biphenyl	1000 ug/mL
							1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48309-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1-Methylnaphthalene	1000 ug/mL
							2,2'-oxybis[1-chloropropane]	1000 ug/mL
							2,3,4,6-Tetrachlorophenol	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dichlorophenol	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Methylphenol	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48309-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dimethyl phthalate	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Hexadecane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							n-Decane	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							N-Nitrosodiphenylamine	2000 ug/mL
							n-Octadecane	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	1000 ug/mL
..SVLVstd10_00001	06/30/16		Restek, Lot A0107943		(Purchased Reagent)		Benzoic acid	2000 ug/mL
							Indene	2000 ug/mL
..SVLVstd11_00001	06/30/16		Restek, Lot A0108035		(Purchased Reagent)		Atrazine	2000 ug/mL
							Benzaldehyde	2000 ug/mL
							Caprolactam	2000 ug/mL
..SVLVstd9_00001	07/31/16		Restek, Lot A0108709		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Benzidine	2000 ug/mL
..SVLVSURRSPK_00014	05/31/19		Restek, Lot A0103615		(Purchased Reagent)		2,4,6-Tribromophenol (Surr)	5000 ug/mL
							2-Fluorobiphenyl	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL
..svmethylmetha_00011	02/13/20		Absolute, Lot 021315		(Purchased Reagent)		Methyl methanesulfonate	1000 ug/mL
..SVNNITROPYROs_00015	06/05/17		absolute, Lot 060514		(Purchased Reagent)		N-Nitrosopyrrolidine	1000 ug/mL
SVTAPSTD80i_00007	10/23/15	04/23/15	MeCl2, Lot 1417620	1 mL	SVTAPITINTRNi_00007	10 uL	1,4-Dichlorobenzene-d4	4 ug/mL
							Acenaphthene-d10	4 ug/mL
							Chrysene-d12	4 ug/mL
							Naphthalene-d8	4 ug/mL
							Perylene-d12	4 ug/mL
							Phenanthrene-d10	4 ug/mL
					SVTAPITSTCKi_00006	1000 uL	Benzo[e]pyrene	40 ug/mL
							2,3,5,6-Tetrachlorophenol	40 ug/mL
							2-Naphthylamine	40 ug/mL
							7,12-Dimethylbenz(a)anthracene	40 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48309-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,1'-Biphenyl	40 ug/mL
							1,2,4,5-Tetrachlorobenzene	40 ug/mL
							1,2,4-Trichlorobenzene	40 ug/mL
							1,2-Dichlorobenzene	40 ug/mL
							1,2-Diphenylhydrazine	40 ug/mL
							1,3-Dichlorobenzene	40 ug/mL
							1,3-Dinitrobenzene	40 ug/mL
							1,4-Dichlorobenzene	40 ug/mL
							1,4-Dioxane	40 ug/mL
							1-Methylnaphthalene	40 ug/mL
							2,2'-oxybis[1-chloropropane]	40 ug/mL
							2,3,4,6-Tetrachlorophenol	40 ug/mL
							2,4,5-Trichlorophenol	40 ug/mL
							2,4,6-Trichlorophenol	40 ug/mL
							2,4-Dichlorophenol	40 ug/mL
							2,4-Dimethylphenol	40 ug/mL
							2,4-Dinitrophenol	80 ug/mL
							2,4-Dinitrotoluene	40 ug/mL
							2,6-Dichlorophenol	40 ug/mL
							2,6-Dinitrotoluene	40 ug/mL
							2-Chloronaphthalene	40 ug/mL
							2-Chlorophenol	40 ug/mL
							2-Methylnaphthalene	40 ug/mL
							2-Methylphenol	40 ug/mL
							2-Nitroaniline	40 ug/mL
							2-Nitrophenol	40 ug/mL
							3-Nitroaniline	40 ug/mL
							4,6-Dinitro-2-methylphenol	80 ug/mL
							4-Bromophenyl phenyl ether	40 ug/mL
							4-Chloro-3-methylphenol	40 ug/mL
							4-Chloroaniline	40 ug/mL
							4-Chlorophenyl phenyl ether	40 ug/mL
							4-Methylphenol	40 ug/mL
							4-Nitroaniline	40 ug/mL
							4-Nitrophenol	80 ug/mL
							Acenaphthene	40 ug/mL
							Acenaphthylene	40 ug/mL
							Acetophenone	40 ug/mL
							Aniline	40 ug/mL
							Anthracene	40 ug/mL
							Benzo[a]anthracene	40 ug/mL
							Benzo[a]pyrene	40 ug/mL
							Benzo[b]fluoranthene	40 ug/mL
							Benzo[g,h,i]perylene	40 ug/mL
							Benzo[k]fluoranthene	40 ug/mL
							Benzyl alcohol	40 ug/mL
							Bis(2-chloroethoxy)methane	40 ug/mL
							Bis(2-chloroethyl)ether	40 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48309-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Bis(2-ethylhexyl) phthalate	40 ug/mL
							Butyl benzyl phthalate	40 ug/mL
							Carbazole	40 ug/mL
							Chrysene	40 ug/mL
							Di-n-butyl phthalate	40 ug/mL
							Di-n-octyl phthalate	40 ug/mL
							Dibenz(a,h)anthracene	40 ug/mL
							Dibenzofuran	40 ug/mL
							Diethyl phthalate	40 ug/mL
							Dimethyl phthalate	40 ug/mL
							Fluoranthene	40 ug/mL
							Fluorene	40 ug/mL
							Hexachlorobenzene	40 ug/mL
							Hexachlorobutadiene	40 ug/mL
							Hexachlorocyclopentadiene	40 ug/mL
							Hexachloroethane	40 ug/mL
							Hexadecane	40 ug/mL
							Indeno[1,2,3-cd]pyrene	40 ug/mL
							Isophorone	40 ug/mL
							n-Decane	40 ug/mL
							N-Nitrosodi-n-propylamine	40 ug/mL
							N-Nitrosodimethylamine	40 ug/mL
							N-Nitrosodiphenylamine	80 ug/mL
							n-Octadecane	40 ug/mL
							Naphthalene	40 ug/mL
							Nitrobenzene	40 ug/mL
							Pentachlorophenol	80 ug/mL
							Phenanthrene	40 ug/mL
							Phenol	40 ug/mL
							Pyrene	40 ug/mL
							Pyridine	40 ug/mL
							Benzoic acid	40 ug/mL
							Indene	40 ug/mL
							Atrazine	40 ug/mL
							Benzaldehyde	40 ug/mL
							Caprolactam	40 ug/mL
							3,3'-Dichlorobenzidine	40 ug/mL
							Benzidine	40 ug/mL
							2,4,6-Tribromophenol (Surr)	40 ug/mL
							2-Fluorobiphenyl	40 ug/mL
							2-Fluorophenol (Surr)	40 ug/mL
							Nitrobenzene-d5 (Surr)	40 ug/mL
							Phenol-d5 (Surr)	40 ug/mL
							Terphenyl-d14 (Surr)	40 ug/mL
							Methyl methanesulfonate	40 ug/mL
							N-Nitrosopyrrolidine	40 ug/mL
.SVTAPITINTRNi_00007	12/03/15	12/03/14	MeCl2, Lot 1417620	25 mL	SVLVIntstd_00004	5 mL	1,4-Dichlorobenzene-d4	400 ug/mL
							Acenaphthene-d10	400 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48309-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chrysene-d12	400 ug/mL
							Naphthalene-d8	400 ug/mL
							Perylene-d12	400 ug/mL
							Phenanthrene-d10	400 ug/mL
..SVLVIntstd_00004	02/28/18		Restek, Lot A093676		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
.SVTAPITSTCKi_00006	10/23/15	04/23/15	MeCl2, Lot 1417620	20 mL	sv benzoepyre_00001	800 uL	Benzo[e]pyrene	40 ug/mL
					SV2356TCPs_00002	800 uL	2,3,5,6-Tetrachlorophenol	40 ug/mL
					SV2NAPAMINEs_00002	800 uL	2-Naphthylamine	40 ug/mL
					sv712dimbenza_00011	800 uL	7,12-Dimethylbenz(a)anthracene	40 ug/mL
					SVLVstd1_00032	800 uL	1,1'-Biphenyl	40 ug/mL
							1,2,4,5-Tetrachlorobenzene	40 ug/mL
							1,2,4-Trichlorobenzene	40 ug/mL
							1,2-Dichlorobenzene	40 ug/mL
							1,2-Diphenylhydrazine	40 ug/mL
							1,3-Dichlorobenzene	40 ug/mL
							1,3-Dinitrobenzene	40 ug/mL
							1,4-Dichlorobenzene	40 ug/mL
							1,4-Dioxane	40 ug/mL
							1-Methylnaphthalene	40 ug/mL
							2,2'-oxybis[1-chloropropane]	40 ug/mL
							2,3,4,6-Tetrachlorophenol	40 ug/mL
							2,4,5-Trichlorophenol	40 ug/mL
							2,4,6-Trichlorophenol	40 ug/mL
							2,4-Dichlorophenol	40 ug/mL
							2,4-Dimethylphenol	40 ug/mL
							2,4-Dinitrophenol	80 ug/mL
							2,4-Dinitrotoluene	40 ug/mL
							2,6-Dichlorophenol	40 ug/mL
							2,6-Dinitrotoluene	40 ug/mL
							2-Chloronaphthalene	40 ug/mL
							2-Chlorophenol	40 ug/mL
							2-Methylnaphthalene	40 ug/mL
							2-Methylphenol	40 ug/mL
							2-Nitroaniline	40 ug/mL
							2-Nitrophenol	40 ug/mL
							3-Nitroaniline	40 ug/mL
							4,6-Dinitro-2-methylphenol	80 ug/mL
							4-Bromophenyl phenyl ether	40 ug/mL
							4-Chloro-3-methylphenol	40 ug/mL
							4-Chloroaniline	40 ug/mL
							4-Chlorophenyl phenyl ether	40 ug/mL
							4-Methylphenol	40 ug/mL
							4-Nitroaniline	40 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48309-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4-Nitrophenol	80 ug/mL
							Acenaphthene	40 ug/mL
							Acenaphthylene	40 ug/mL
							Acetophenone	40 ug/mL
							Aniline	40 ug/mL
							Anthracene	40 ug/mL
							Benzo[a]anthracene	40 ug/mL
							Benzo[a]pyrene	40 ug/mL
							Benzo[b]fluoranthene	40 ug/mL
							Benzo[g,h,i]perylene	40 ug/mL
							Benzo[k]fluoranthene	40 ug/mL
							Benzyl alcohol	40 ug/mL
							Bis(2-chloroethoxy)methane	40 ug/mL
							Bis(2-chloroethyl)ether	40 ug/mL
							Bis(2-ethylhexyl) phthalate	40 ug/mL
							Butyl benzyl phthalate	40 ug/mL
							Carbazole	40 ug/mL
							Chrysene	40 ug/mL
							Di-n-butyl phthalate	40 ug/mL
							Di-n-octyl phthalate	40 ug/mL
							Dibenz(a,h)anthracene	40 ug/mL
							Dibenzofuran	40 ug/mL
							Diethyl phthalate	40 ug/mL
							Dimethyl phthalate	40 ug/mL
							Fluoranthene	40 ug/mL
							Fluorene	40 ug/mL
							Hexachlorobenzene	40 ug/mL
							Hexachlorobutadiene	40 ug/mL
							Hexachlorocyclopentadiene	40 ug/mL
							Hexachloroethane	40 ug/mL
							Hexadecane	40 ug/mL
							Indeno[1,2,3-cd]pyrene	40 ug/mL
							Isophorone	40 ug/mL
							n-Decane	40 ug/mL
							N-Nitrosodi-n-propylamine	40 ug/mL
							N-Nitrosodimethylamine	40 ug/mL
							N-Nitrosodiphenylamine	80 ug/mL
							n-Octadecane	40 ug/mL
							Naphthalene	40 ug/mL
							Nitrobenzene	40 ug/mL
							Pentachlorophenol	80 ug/mL
							Phenanthrene	40 ug/mL
							Phenol	40 ug/mL
							Pyrene	40 ug/mL
							Pyridine	40 ug/mL
					SVLVstd10_00001	400 uL	Benzoic acid	40 ug/mL
							Indene	40 ug/mL
					SVLVstd11_00001	400 uL	Atrazine	40 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48309-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzaldehyde	40 ug/mL
							Caprolactam	40 ug/mL
					SVLVstd9_00001	400 uL	3,3'-Dichlorobenzidine	40 ug/mL
							Benzidine	40 ug/mL
					SVLVSURRSPK_00014	160 uL	2,4,6-Tribromophenol (Surr)	40 ug/mL
							2-Fluorobiphenyl	40 ug/mL
							2-Fluorophenol (Surr)	40 ug/mL
							Nitrobenzene-d5 (Surr)	40 ug/mL
							Phenol-d5 (Surr)	40 ug/mL
							Terphenyl-d14 (Surr)	40 ug/mL
					svmethylmetha_00011	800 uL	Methyl methanesulfonate	40 ug/mL
					SVNNITROPYROs_00015	800 uL	N-Nitrosopyrrolidine	40 ug/mL
..sv benzoepyre_00001	10/03/18		Absolute, Lot 100313		(Purchased Reagent)		Benzo[e]pyrene	1000 ug/mL
..SV2356TCPs_00002	06/17/16		Absolute, Lot 061711		(Purchased Reagent)		2,3,5,6-Tetrachlorophenol	1000 ug/mL
..SV2NAPAMINEs_00002	06/30/17		Ultra Scientific, Lot Ck-1617		(Purchased Reagent)		2-Naphthylamine	1000 ug/mL
..sv712dimbenza_00011	04/09/20		Absolute, Lot 040915		(Purchased Reagent)		7,12-Dimethylbenz(a)anthracene	1000 ug/mL
..SVLVstd1_00032	05/31/16		Restek, Lot A0107399		(Purchased Reagent)		1,1'-Biphenyl	1000 ug/mL
							1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2,2'-oxybis[1-chloropropane]	1000 ug/mL
							2,3,4,6-Tetrachlorophenol	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dichlorophenol	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48309-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4-Methylphenol	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Hexadecane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							n-Decane	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							N-Nitrosodiphenylamine	2000 ug/mL
							n-Octadecane	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	1000 ug/mL
..SVLVstd10_00001	06/30/16		Restek, Lot A0107943		(Purchased Reagent)		Benzoic acid	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48309-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Indene	2000 ug/mL
..SVLVstd11_00001	06/30/16		Restek, Lot A0108035		(Purchased Reagent)		Atrazine	2000 ug/mL
							Benzaldehyde	2000 ug/mL
							Caprolactam	2000 ug/mL
..SVLVstd9_00001	07/31/16		Restek, Lot A0108709		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Benzidine	2000 ug/mL
..SVLVSURRSPK_00014	05/31/19		Restek, Lot A0103615		(Purchased Reagent)		2,4,6-Tribromophenol (Surr)	5000 ug/mL
							2-Fluorobiphenyl	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL
..svmethylmetha_00011	02/13/20		Absolute, Lot 021315		(Purchased Reagent)		Methyl methanesulfonate	1000 ug/mL
..SVNNITROPYROs_00015	06/05/17		absolute, Lot 060514		(Purchased Reagent)		N-Nitrosopyrrolidine	1000 ug/mL
VOA8260INT_00039	08/02/15	07/02/15	Methanol, Lot 85233	10 mL	VOA8260INTRES_00067	1 mL	1,4-Dichlorobenzene-d4	25 ug/mL
							Chlorobenzene-d5	25 ug/mL
							Fluorobenzene (IS)	25 ug/mL
							TBA-d9 (IS)	500 ug/mL
.VOA8260INTRES_00067	02/01/18		Restek, Lot A093504		(Purchased Reagent)		1,4-Dichlorobenzene-d4	250 ug/mL
							Chlorobenzene-d5	250 ug/mL
							Fluorobenzene (IS)	250 ug/mL
							TBA-d9 (IS)	5000 ug/mL
VOA8260INT_00040	09/03/15	08/03/15	Methanol, Lot 85233	10 mL	VOA8260INTRES_00088	1 mL	1,4-Dichlorobenzene-d4	25 ug/mL
							Chlorobenzene-d5	25 ug/mL
							Fluorobenzene (IS)	25 ug/mL
							TBA-d9 (IS)	500 ug/mL
.VOA8260INTRES_00088	07/31/19		Restek, Lot A0104742		(Purchased Reagent)		1,4-Dichlorobenzene-d4	250 ug/mL
							Chlorobenzene-d5	250 ug/mL
							Fluorobenzene (IS)	250 ug/mL
							TBA-d9 (IS)	5000 ug/mL
VOA8260INT_00042	10/11/15	09/11/15	Methanol, Lot 99494	10 mL	VOA8260INTRES_00068	1 mL	1,4-Dichlorobenzene-d4	25 ug/mL
							Chlorobenzene-d5	25 ug/mL
							Fluorobenzene (IS)	25 ug/mL
							TBA-d9 (IS)	500 ug/mL
.VOA8260INTRES_00068	02/01/18		Restek, Lot A093504		(Purchased Reagent)		1,4-Dichlorobenzene-d4	250 ug/mL
							Chlorobenzene-d5	250 ug/mL
							Fluorobenzene (IS)	250 ug/mL
							TBA-d9 (IS)	5000 ug/mL
VOA8260SURR_00039	08/02/15	07/02/15	Methanol, Lot 85233	100 mL	VOA8260SURRES_00066	1 mL	1,2-Dichloroethane-d4 (Surr)	25 ug/mL
							4-Bromofluorobenzene (Surr)	25 ug/mL
							Dibromofluoromethane (Surr)	25 ug/mL
							Toluene-d8 (Surr)	25 ug/mL
.VOA8260SURRES_00066	01/31/19		Restek, Lot A0100424		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene (Surr)	2500 ug/mL
							Dibromofluoromethane (Surr)	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48309-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
VOA8260SURR_00040	09/03/15	08/03/15	Methanol, Lot 85233	100 mL	VOA8260SURRES_00067	1 mL	1,2-Dichloroethane-d4 (Surr)	25 ug/mL
							4-Bromofluorobenzene (Surr)	25 ug/mL
							Dibromofluoromethane (Surr)	25 ug/mL
							Toluene-d8 (Surr)	25 ug/mL
.VOA8260SURRES_00067	01/31/19		Restek, Lot A0100424		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene (Surr)	2500 ug/mL
							Dibromofluoromethane (Surr)	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
VOA8260SURR_00042	10/11/15	09/11/15	Methanol, Lot 99494	100 mL	VOA8260SURRES_00077	1 mL	1,2-Dichloroethane-d4 (Surr)	25 ug/mL
							4-Bromofluorobenzene (Surr)	25 ug/mL
							Dibromofluoromethane (Surr)	25 ug/mL
							Toluene-d8 (Surr)	25 ug/mL
.VOA8260SURRES_00077	01/31/19		Restek, Lot A0101000		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene (Surr)	2500 ug/mL
							Dibromofluoromethane (Surr)	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
VOA8260VOA2ND_00146	10/09/15	10/02/15	Methanol, Lot 99494	10 mL	VOA8260GAS2ND_00115	0.1 mL	Bromomethane	25 ug/mL
							Chloroethane	25 ug/mL
							Chloromethane	25 ug/mL
							Vinyl chloride	25 ug/mL
					VOA8260VOA2ND_00145	1 mL	1,1,1,2-Tetrachloroethane	25 ug/mL
							1,1,1-Trichloroethane	25 ug/mL
							1,1,2,2-Tetrachloroethane	25 ug/mL
							1,1,2-Trichloroethane	25 ug/mL
							1,1-Dichloroethane	25 ug/mL
							1,1-Dichloroethene	25 ug/mL
							1,2-Dibromoethane (EDB)	25 ug/mL
							1,2-Dichloroethane	25 ug/mL
							1,2-Dichloropropane	25 ug/mL
							1,4-Dioxane	500 ug/mL
							Acrylonitrile	250 ug/mL
							Benzene	25 ug/mL
							Bromochloromethane	25 ug/mL
							Bromodichloromethane	25 ug/mL
							Bromoform	25 ug/mL
							Carbon disulfide	25 ug/mL
							Carbon tetrachloride	25 ug/mL
							Chlorobenzene	25 ug/mL
							Chloroform	25 ug/mL
							cis-1,2-Dichloroethene	25 ug/mL
							cis-1,3-Dichloropropene	25 ug/mL
							Dibromochloromethane	25 ug/mL
							Ethylbenzene	25 ug/mL
							Methyl tert-butyl ether	25 ug/mL
							Methylene Chloride	25 ug/mL
							Styrene	25 ug/mL
							Tetrachloroethene	25 ug/mL

Lab Name: TestAmerica Pittsburgh Job No.: 180-48309-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Toluene	25 ug/mL
							trans-1,2-Dichloroethene	25 ug/mL
							trans-1,3-Dichloropropene	25 ug/mL
							Trichloroethene	25 ug/mL
							Xylenes, Total	50 ug/mL
.VOA8260GAS2ND_00115	04/30/18		Restek, Lot A0111273		(Purchased Reagent)		Bromomethane	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
.VOA8260VOA2ND_00145	10/25/15	09/25/15	Methanol, Lot 99494	10 mL	VOA8260MEGA2_00037	1 mL	1,1,1,2-Tetrachloroethane	250 ug/mL
							1,1,1-Trichloroethane	250 ug/mL
							1,1,2,2-Tetrachloroethane	250 ug/mL
							1,1,2-Trichloroethane	250 ug/mL
							1,1-Dichloroethane	250 ug/mL
							1,1-Dichloroethene	250 ug/mL
							1,2-Dibromoethane (EDB)	250 ug/mL
							1,2-Dichloroethane	250 ug/mL
							1,2-Dichloropropane	250 ug/mL
							1,4-Dioxane	5000 ug/mL
							Acrylonitrile	2500 ug/mL
							Benzene	250 ug/mL
							Bromochloromethane	250 ug/mL
							Bromodichloromethane	250 ug/mL
							Bromoform	250 ug/mL
							Carbon disulfide	250 ug/mL
							Carbon tetrachloride	250 ug/mL
							Chlorobenzene	250 ug/mL
							Chloroform	250 ug/mL
							cis-1,2-Dichloroethene	250 ug/mL
							cis-1,3-Dichloropropene	250 ug/mL
							Dibromochloromethane	250 ug/mL
							Ethylbenzene	250 ug/mL
							Methyl tert-butyl ether	250 ug/mL
							Methylene Chloride	250 ug/mL
							Styrene	250 ug/mL
							Tetrachloroethene	250 ug/mL
							Toluene	250 ug/mL
							trans-1,2-Dichloroethene	250 ug/mL
							trans-1,3-Dichloropropene	250 ug/mL
							Trichloroethene	250 ug/mL
							Xylenes, Total	500 ug/mL
..VOA8260MEGA2_00037	01/31/17		Restek, Lot A0108163		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	2500 ug/mL
							1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL
							1,1,2-Trichloroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,2-Dibromoethane (EDB)	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48309-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropane	2500 ug/mL
							1,4-Dioxane	50000 ug/mL
							Acrylonitrile	25000 ug/mL
							Benzene	2500 ug/mL
							Bromochloromethane	2500 ug/mL
							Bromodichloromethane	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Dibromochloromethane	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							Methyl tert-butyl ether	2500 ug/mL
							Methylene Chloride	2500 ug/mL
							Styrene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Toluene	2500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL
							trans-1,3-Dichloropropene	2500 ug/mL
							Trichloroethene	2500 ug/mL
							Xylenes, Total	5000 ug/mL
VOA8260VOAPRI_00134	08/03/15	07/27/15	Methanol, Lot 85233	10 mL	VOA8260GAS1ST_00110	0.1 mL	Bromomethane	25 ug/mL
							Butadiene	25 ug/mL
							Chloroethane	25 ug/mL
							Chloromethane	25 ug/mL
							Dichlorodifluoromethane	25 ug/mL
							Dichlorofluoromethane	25 ug/mL
							Trichlorofluoromethane	25 ug/mL
							Vinyl chloride	25 ug/mL
					VOA8260VOAPRI_00129	1 mL	2-Butanone (MEK)	25 ug/mL
							2-Hexanone	25 ug/mL
							4-Methyl-2-pentanone (MIBK)	25 ug/mL
							Acetone	25 ug/mL
							1,1,1,2-Tetrachloroethane	25 ug/mL
							1,1,1-Trichloroethane	25 ug/mL
							1,1,2,2-Tetrachloroethane	25 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	25 ug/mL
							1,1,2-Trichloroethane	25 ug/mL
							1,1-Dichloroethane	25 ug/mL
							1,1-Dichloroethene	25 ug/mL
							1,1-Dichloropropene	25 ug/mL
							1,2,3-Trichlorobenzene	25 ug/mL
							1,2,3-Trichloropropane	25 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48309-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2,4-Trichlorobenzene	25 ug/mL
							1,2,4-Trimethylbenzene	25 ug/mL
							1,2-Dibromo-3-Chloropropane	25 ug/mL
							1,2-Dibromoethane (EDB)	25 ug/mL
							1,2-Dichlorobenzene	25 ug/mL
							1,2-Dichloroethane	25 ug/mL
							1,2-Dichloropropane	25 ug/mL
							1,3,5-Trimethylbenzene	25 ug/mL
							1,3-Dichlorobenzene	25 ug/mL
							1,3-Dichloropropane	25 ug/mL
							1,4-Dichlorobenzene	25 ug/mL
							1,4-Dioxane	500 ug/mL
							2,2-Dichloropropane	25 ug/mL
							2-Chlorotoluene	25 ug/mL
							2-Methyl-2-propanol	250 ug/mL
							3-Chloro-1-propene	25 ug/mL
							4-Chlorotoluene	25 ug/mL
							4-Isopropyltoluene	25 ug/mL
							Acrylonitrile	250 ug/mL
							Benzene	25 ug/mL
							Bromobenzene	25 ug/mL
							Bromochloromethane	25 ug/mL
							Bromodichloromethane	25 ug/mL
							Bromoform	25 ug/mL
							Carbon disulfide	25 ug/mL
							Carbon tetrachloride	25 ug/mL
							Chlorobenzene	25 ug/mL
							Chloroform	25 ug/mL
							cis-1,2-Dichloroethene	25 ug/mL
							cis-1,3-Dichloropropene	25 ug/mL
							Cyclohexane	25 ug/mL
							Dibromochloromethane	25 ug/mL
							Dibromomethane	25 ug/mL
							Ethyl ether	25 ug/mL
							Ethyl methacrylate	25 ug/mL
							Ethylbenzene	25 ug/mL
							Hexachlorobutadiene	25 ug/mL
							Hexane	25 ug/mL
							Iodomethane	25 ug/mL
							Isobutyl alcohol	625 ug/mL
							Isopropylbenzene	25 ug/mL
							m-Xylene & p-Xylene	25 ug/mL
							Methyl acetate	125 ug/mL
							Methyl tert-butyl ether	25 ug/mL
							Methylcyclohexane	25 ug/mL
							Methylene Chloride	25 ug/mL
							n-Butylbenzene	25 ug/mL
							n-Heptane	25 ug/mL

Lab Name: TestAmerica Pittsburgh Job No.: 180-48309-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							N-Propylbenzene	25 ug/mL
							Naphthalene	25 ug/mL
							o-Xylene	25 ug/mL
							sec-Butylbenzene	25 ug/mL
							Styrene	25 ug/mL
							tert-Butylbenzene	25 ug/mL
							Tetrachloroethene	25 ug/mL
							Tetrahydrofuran	50 ug/mL
							Toluene	25 ug/mL
							trans-1,2-Dichloroethene	25 ug/mL
							trans-1,3-Dichloropropene	25 ug/mL
							trans-1,4-Dichloro-2-butene	25 ug/mL
							Trichloroethene	25 ug/mL
.VOA8260GAS1ST_00110	04/30/18		Restek, Lot A011070		(Purchased Reagent)		Bromomethane	2500 ug/mL
							Butadiene	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Dichlorodifluoromethane	2500 ug/mL
							Dichlorofluoromethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
.VOA8260VOAPRI_00129	08/07/15	07/07/15	Methanol, Lot 85233	10 mL	VOA8260KET1ST_00047	0.2 mL	2-Butanone (MEK)	250 ug/mL
							2-Hexanone	250 ug/mL
							4-Methyl-2-pentanone (MIBK)	250 ug/mL
							Acetone	250 ug/mL
					VOA8260MEGA1_00030	1 mL	1,1,1,2-Tetrachloroethane	250 ug/mL
							1,1,1-Trichloroethane	250 ug/mL
							1,1,2,2-Tetrachloroethane	250 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	250 ug/mL
							1,1,2-Trichloroethane	250 ug/mL
							1,1-Dichloroethane	250 ug/mL
							1,1-Dichloroethene	250 ug/mL
							1,1-Dichloropropene	250 ug/mL
							1,2,3-Trichlorobenzene	250 ug/mL
							1,2,3-Trichloropropane	250 ug/mL
							1,2,4-Trichlorobenzene	250 ug/mL
							1,2,4-Trimethylbenzene	250 ug/mL
							1,2-Dibromo-3-Chloropropane	250 ug/mL
							1,2-Dibromoethane (EDB)	250 ug/mL
							1,2-Dichlorobenzene	250 ug/mL
							1,2-Dichloroethane	250 ug/mL
							1,2-Dichloropropane	250 ug/mL
							1,3,5-Trimethylbenzene	250 ug/mL
							1,3-Dichlorobenzene	250 ug/mL
							1,3-Dichloropropane	250 ug/mL
							1,4-Dichlorobenzene	250 ug/mL
							1,4-Dioxane	5000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48309-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,2-Dichloropropane	250 ug/mL
							2-Chlorotoluene	250 ug/mL
							2-Methyl-2-propanol	2500 ug/mL
							3-Chloro-1-propene	250 ug/mL
							4-Chlorotoluene	250 ug/mL
							4-Isopropyltoluene	250 ug/mL
							Acrylonitrile	2500 ug/mL
							Benzene	250 ug/mL
							Bromobenzene	250 ug/mL
							Bromochloromethane	250 ug/mL
							Bromodichloromethane	250 ug/mL
							Bromoform	250 ug/mL
							Carbon disulfide	250 ug/mL
							Carbon tetrachloride	250 ug/mL
							Chlorobenzene	250 ug/mL
							Chloroform	250 ug/mL
							cis-1,2-Dichloroethene	250 ug/mL
							cis-1,3-Dichloropropene	250 ug/mL
							Cyclohexane	250 ug/mL
							Dibromochloromethane	250 ug/mL
							Dibromomethane	250 ug/mL
							Ethyl ether	250 ug/mL
							Ethyl methacrylate	250 ug/mL
							Ethylbenzene	250 ug/mL
							Hexachlorobutadiene	250 ug/mL
							Hexane	250 ug/mL
							Iodomethane	250 ug/mL
							Isobutyl alcohol	6250 ug/mL
							Isopropylbenzene	250 ug/mL
							m-Xylene & p-Xylene	250 ug/mL
							Methyl acetate	1250 ug/mL
							Methyl tert-butyl ether	250 ug/mL
							Methylcyclohexane	250 ug/mL
							Methylene Chloride	250 ug/mL
							n-Butylbenzene	250 ug/mL
							n-Heptane	250 ug/mL
							N-Propylbenzene	250 ug/mL
							Naphthalene	250 ug/mL
							o-Xylene	250 ug/mL
							sec-Butylbenzene	250 ug/mL
							Styrene	250 ug/mL
							tert-Butylbenzene	250 ug/mL
							Tetrachloroethene	250 ug/mL
							Tetrahydrofuran	500 ug/mL
							Toluene	250 ug/mL
							trans-1,2-Dichloroethene	250 ug/mL
							trans-1,3-Dichloropropene	250 ug/mL
							trans-1,4-Dichloro-2-butene	250 ug/mL

Lab Name: TestAmerica Pittsburgh Job No.: 180-48309-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Trichloroethene	250 ug/mL
..VOA8260KET1ST_00047	04/30/18		Restek, Lot A0110400		(Purchased Reagent)		2-Butanone (MEK)	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone (MIBK)	12500 ug/mL
							Acetone	12500 ug/mL
..VOA8260MEGA1_00030	02/28/16		Restek, Lot A0108166		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	2500 ug/mL
							1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	2500 ug/mL
							1,1,2-Trichloroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,1-Dichloropropene	2500 ug/mL
							1,2,3-Trichlorobenzene	2500 ug/mL
							1,2,3-Trichloropropane	2500 ug/mL
							1,2,4-Trichlorobenzene	2500 ug/mL
							1,2,4-Trimethylbenzene	2500 ug/mL
							1,2-Dibromo-3-Chloropropane	2500 ug/mL
							1,2-Dibromoethane (EDB)	2500 ug/mL
							1,2-Dichlorobenzene	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropane	2500 ug/mL
							1,3,5-Trimethylbenzene	2500 ug/mL
							1,3-Dichlorobenzene	2500 ug/mL
							1,3-Dichloropropane	2500 ug/mL
							1,4-Dichlorobenzene	2500 ug/mL
							1,4-Dioxane	50000 ug/mL
							2,2-Dichloropropane	2500 ug/mL
							2-Chlorotoluene	2500 ug/mL
							2-Methyl-2-propanol	25000 ug/mL
							3-Chloro-1-propene	2500 ug/mL
							4-Chlorotoluene	2500 ug/mL
							4-Isopropyltoluene	2500 ug/mL
							Acrylonitrile	25000 ug/mL
							Benzene	2500 ug/mL
							Bromobenzene	2500 ug/mL
							Bromochloromethane	2500 ug/mL
							Bromodichloromethane	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Cyclohexane	2500 ug/mL
							Dibromochloromethane	2500 ug/mL

Lab Name: TestAmerica Pittsburgh Job No.: 180-48309-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dibromomethane	2500 ug/mL
							Ethyl ether	2500 ug/mL
							Ethyl methacrylate	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							Hexachlorobutadiene	2500 ug/mL
							Hexane	2500 ug/mL
							Iodomethane	2500 ug/mL
							Isobutyl alcohol	62500 ug/mL
							Isopropylbenzene	2500 ug/mL
							m-Xylene & p-Xylene	2500 ug/mL
							Methyl acetate	12500 ug/mL
							Methyl tert-butyl ether	2500 ug/mL
							Methylcyclohexane	2500 ug/mL
							Methylene Chloride	2500 ug/mL
							n-Butylbenzene	2500 ug/mL
							n-Heptane	2500 ug/mL
							N-Propylbenzene	2500 ug/mL
							Naphthalene	2500 ug/mL
							o-Xylene	2500 ug/mL
							sec-Butylbenzene	2500 ug/mL
							Styrene	2500 ug/mL
							tert-Butylbenzene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Tetrahydrofuran	5000 ug/mL
							Toluene	2500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL
							trans-1,3-Dichloropropene	2500 ug/mL
							trans-1,4-Dichloro-2-butene	2500 ug/mL
							Trichloroethene	2500 ug/mL
VOA8260VOAPRI_00139	09/01/15	08/25/15	Methanol, Lot 85233	10 mL	VOA8260GAS1ST_00113	0.1 mL	Bromomethane	25 ug/mL
							Butadiene	25 ug/mL
							Chloroethane	25 ug/mL
							Chloromethane	25 ug/mL
							Dichlorodifluoromethane	25 ug/mL
							Dichlorofluoromethane	25 ug/mL
							Trichlorofluoromethane	25 ug/mL
							Vinyl chloride	25 ug/mL
					VOA8260VOAPRI_00136	1 mL	2-Hexanone	25 ug/mL
							Acetone	25 ug/mL
							1,1,1,2-Tetrachloroethane	25 ug/mL
							1,1,1-Trichloroethane	25 ug/mL
							1,1,2,2-Tetrachloroethane	25 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	25 ug/mL
							1,1,2-Trichloroethane	25 ug/mL
							1,1-Dichloroethane	25 ug/mL
							1,1-Dichloroethene	25 ug/mL
							1,1-Dichloropropene	25 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48309-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2,3-Trichlorobenzene	25 ug/mL
							1,2,3-Trichloropropane	25 ug/mL
							1,2,4-Trichlorobenzene	25 ug/mL
							1,2,4-Trimethylbenzene	25 ug/mL
							1,2-Dibromo-3-Chloropropane	25 ug/mL
							1,2-Dibromoethane (EDB)	25 ug/mL
							1,2-Dichlorobenzene	25 ug/mL
							1,2-Dichloroethane	25 ug/mL
							1,2-Dichloropropane	25 ug/mL
							1,3,5-Trimethylbenzene	25 ug/mL
							1,3-Dichlorobenzene	25 ug/mL
							1,3-Dichloropropane	25 ug/mL
							1,4-Dichlorobenzene	25 ug/mL
							1,4-Dioxane	500 ug/mL
							2,2-Dichloropropane	25 ug/mL
							2-Chlorotoluene	25 ug/mL
							2-Methyl-2-propanol	250 ug/mL
							3-Chloro-1-propene	25 ug/mL
							4-Chlorotoluene	25 ug/mL
							4-Isopropyltoluene	25 ug/mL
							Acrylonitrile	250 ug/mL
							Benzene	25 ug/mL
							Bromobenzene	25 ug/mL
							Bromochloromethane	25 ug/mL
							Bromodichloromethane	25 ug/mL
							Bromoform	25 ug/mL
							Carbon disulfide	25 ug/mL
							Carbon tetrachloride	25 ug/mL
							Chlorobenzene	25 ug/mL
							Chloroform	25 ug/mL
							cis-1,2-Dichloroethene	25 ug/mL
							cis-1,3-Dichloropropene	25 ug/mL
							Cyclohexane	25 ug/mL
							Dibromochloromethane	25 ug/mL
							Dibromomethane	25 ug/mL
							Ethyl ether	25 ug/mL
							Ethyl methacrylate	25 ug/mL
							Ethylbenzene	25 ug/mL
							Hexachlorobutadiene	25 ug/mL
							Hexane	25 ug/mL
							Iodomethane	25 ug/mL
							Isobutyl alcohol	625 ug/mL
							Isopropylbenzene	25 ug/mL
							m-Xylene & p-Xylene	25 ug/mL
							Methyl acetate	125 ug/mL
							Methyl tert-butyl ether	25 ug/mL
							Methylcyclohexane	25 ug/mL
							Methylene Chloride	25 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48309-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							n-Butylbenzene	25 ug/mL
							n-Heptane	25 ug/mL
							N-Propylbenzene	25 ug/mL
							Naphthalene	25 ug/mL
							o-Xylene	25 ug/mL
							sec-Butylbenzene	25 ug/mL
							Styrene	25 ug/mL
							tert-Butylbenzene	25 ug/mL
							Tetrachloroethene	25 ug/mL
							Tetrahydrofuran	50 ug/mL
							Toluene	25 ug/mL
							trans-1,2-Dichloroethene	25 ug/mL
							trans-1,3-Dichloropropene	25 ug/mL
							trans-1,4-Dichloro-2-butene	25 ug/mL
							Trichloroethene	25 ug/mL
.VOA8260GAS1ST_00113	04/30/18		Restek, Lot A0110070		(Purchased Reagent)		Bromomethane	2500 ug/mL
							Butadiene	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Dichlorodifluoromethane	2500 ug/mL
							Dichlorofluoromethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
.VOA8260VOAPRI_00136	09/06/15	08/06/15	Methanol, Lot 85233	10 mL	VOA8260KET1ST_00048	0.2 mL	2-Hexanone	250 ug/mL
							Acetone	250 ug/mL
					VOA8260MEGA1_00032	1 mL	1,1,1,2-Tetrachloroethane	250 ug/mL
							1,1,1-Trichloroethane	250 ug/mL
							1,1,2,2-Tetrachloroethane	250 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	250 ug/mL
							1,1,2-Trichloroethane	250 ug/mL
							1,1-Dichloroethane	250 ug/mL
							1,1-Dichloroethene	250 ug/mL
							1,1-Dichloropropene	250 ug/mL
							1,2,3-Trichlorobenzene	250 ug/mL
							1,2,3-Trichloropropane	250 ug/mL
							1,2,4-Trichlorobenzene	250 ug/mL
							1,2,4-Trimethylbenzene	250 ug/mL
							1,2-Dibromo-3-Chloropropane	250 ug/mL
							1,2-Dibromoethane (EDB)	250 ug/mL
							1,2-Dichlorobenzene	250 ug/mL
							1,2-Dichloroethane	250 ug/mL
							1,2-Dichloropropane	250 ug/mL
							1,3,5-Trimethylbenzene	250 ug/mL
							1,3-Dichlorobenzene	250 ug/mL
							1,3-Dichloropropane	250 ug/mL
							1,4-Dichlorobenzene	250 ug/mL
							1,4-Dioxane	5000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48309-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,2-Dichloropropane	250 ug/mL
							2-Chlorotoluene	250 ug/mL
							2-Methyl-2-propanol	2500 ug/mL
							3-Chloro-1-propene	250 ug/mL
							4-Chlorotoluene	250 ug/mL
							4-Isopropyltoluene	250 ug/mL
							Acrylonitrile	2500 ug/mL
							Benzene	250 ug/mL
							Bromobenzene	250 ug/mL
							Bromochloromethane	250 ug/mL
							Bromodichloromethane	250 ug/mL
							Bromoform	250 ug/mL
							Carbon disulfide	250 ug/mL
							Carbon tetrachloride	250 ug/mL
							Chlorobenzene	250 ug/mL
							Chloroform	250 ug/mL
							cis-1,2-Dichloroethene	250 ug/mL
							cis-1,3-Dichloropropene	250 ug/mL
							Cyclohexane	250 ug/mL
							Dibromochloromethane	250 ug/mL
							Dibromomethane	250 ug/mL
							Ethyl ether	250 ug/mL
							Ethyl methacrylate	250 ug/mL
							Ethylbenzene	250 ug/mL
							Hexachlorobutadiene	250 ug/mL
							Hexane	250 ug/mL
							Iodomethane	250 ug/mL
							Isobutyl alcohol	6250 ug/mL
							Isopropylbenzene	250 ug/mL
							m-Xylene & p-Xylene	250 ug/mL
							Methyl acetate	1250 ug/mL
							Methyl tert-butyl ether	250 ug/mL
							Methylcyclohexane	250 ug/mL
							Methylene Chloride	250 ug/mL
							n-Butylbenzene	250 ug/mL
							n-Heptane	250 ug/mL
							N-Propylbenzene	250 ug/mL
							Naphthalene	250 ug/mL
							o-Xylene	250 ug/mL
							sec-Butylbenzene	250 ug/mL
							Styrene	250 ug/mL
							tert-Butylbenzene	250 ug/mL
							Tetrachloroethene	250 ug/mL
							Tetrahydrofuran	500 ug/mL
							Toluene	250 ug/mL
							trans-1,2-Dichloroethene	250 ug/mL
							trans-1,3-Dichloropropene	250 ug/mL
							trans-1,4-Dichloro-2-butene	250 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48309-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Trichloroethene	250 ug/mL
..VOA8260KET1ST_00048	04/30/18		Restek, Lot A0110400		(Purchased Reagent)		2-Hexanone	12500 ug/mL
							Acetone	12500 ug/mL
..VOA8260MEGA1_00032	02/28/16		Restek, Lot A0108166		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	2500 ug/mL
							1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	2500 ug/mL
							1,1,2-Trichloroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,1-Dichloropropene	2500 ug/mL
							1,2,3-Trichlorobenzene	2500 ug/mL
							1,2,3-Trichloropropane	2500 ug/mL
							1,2,4-Trichlorobenzene	2500 ug/mL
							1,2,4-Trimethylbenzene	2500 ug/mL
							1,2-Dibromo-3-Chloropropane	2500 ug/mL
							1,2-Dibromoethane (EDB)	2500 ug/mL
							1,2-Dichlorobenzene	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropane	2500 ug/mL
							1,3,5-Trimethylbenzene	2500 ug/mL
							1,3-Dichlorobenzene	2500 ug/mL
							1,3-Dichloropropane	2500 ug/mL
							1,4-Dichlorobenzene	2500 ug/mL
							1,4-Dioxane	50000 ug/mL
							2,2-Dichloropropane	2500 ug/mL
							2-Chlorotoluene	2500 ug/mL
							2-Methyl-2-propanol	25000 ug/mL
							3-Chloro-1-propene	2500 ug/mL
							4-Chlorotoluene	2500 ug/mL
							4-Isopropyltoluene	2500 ug/mL
							Acrylonitrile	25000 ug/mL
							Benzene	2500 ug/mL
							Bromobenzene	2500 ug/mL
							Bromochloromethane	2500 ug/mL
							Bromodichloromethane	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Cyclohexane	2500 ug/mL
							Dibromochloromethane	2500 ug/mL
							Dibromomethane	2500 ug/mL
							Ethyl ether	2500 ug/mL

Lab Name: TestAmerica Pittsburgh Job No.: 180-48309-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Ethyl methacrylate	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							Hexachlorobutadiene	2500 ug/mL
							Hexane	2500 ug/mL
							Iodomethane	2500 ug/mL
							Isobutyl alcohol	62500 ug/mL
							Isopropylbenzene	2500 ug/mL
							m-Xylene & p-Xylene	2500 ug/mL
							Methyl acetate	12500 ug/mL
							Methyl tert-butyl ether	2500 ug/mL
							Methylcyclohexane	2500 ug/mL
							Methylene Chloride	2500 ug/mL
							n-Butylbenzene	2500 ug/mL
							n-Heptane	2500 ug/mL
							N-Propylbenzene	2500 ug/mL
							Naphthalene	2500 ug/mL
							o-Xylene	2500 ug/mL
							sec-Butylbenzene	2500 ug/mL
							Styrene	2500 ug/mL
							tert-Butylbenzene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Tetrahydrofuran	5000 ug/mL
							Toluene	2500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL
							trans-1,3-Dichloropropene	2500 ug/mL
							trans-1,4-Dichloro-2-butene	2500 ug/mL
							Trichloroethene	2500 ug/mL
VOA8260VOAPRI_00147	10/09/15	10/02/15	Methanol, Lot 99494	10 mL	VOA8260GAS1ST_00118	0.1 mL	Bromomethane	25 ug/mL
							Chloroethane	25 ug/mL
							Chloromethane	25 ug/mL
							Vinyl chloride	25 ug/mL
					VOA8260VOAPRI_00146	1 mL	1,1,1,2-Tetrachloroethane	25 ug/mL
							1,1,1-Trichloroethane	25 ug/mL
							1,1,2,2-Tetrachloroethane	25 ug/mL
							1,1,2-Trichloroethane	25 ug/mL
							1,1-Dichloroethane	25 ug/mL
							1,1-Dichloroethene	25 ug/mL
							1,2-Dibromoethane (EDB)	25 ug/mL
							1,2-Dichloroethane	25 ug/mL
							1,2-Dichloropropane	25 ug/mL
							1,4-Dioxane	500 ug/mL
							Acrylonitrile	250 ug/mL
							Benzene	25 ug/mL
							Bromochloromethane	25 ug/mL
							Bromodichloromethane	25 ug/mL
							Bromoform	25 ug/mL
							Carbon disulfide	25 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48309-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Carbon tetrachloride	25 ug/mL
							Chlorobenzene	25 ug/mL
							Chloroform	25 ug/mL
							cis-1,2-Dichloroethene	25 ug/mL
							cis-1,3-Dichloropropene	25 ug/mL
							Dibromochloromethane	25 ug/mL
							Ethylbenzene	25 ug/mL
							Methyl tert-butyl ether	25 ug/mL
							Methylene Chloride	25 ug/mL
							Styrene	25 ug/mL
							Tetrachloroethene	25 ug/mL
							Toluene	25 ug/mL
							trans-1,2-Dichloroethene	25 ug/mL
							trans-1,3-Dichloropropene	25 ug/mL
							Trichloroethene	25 ug/mL
							Xylenes, Total	50 ug/mL
.VOA8260GAS1ST_00118	04/30/18		Restek, Lot A0110070		(Purchased Reagent)		Bromomethane	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
.VOA8260VOAPRI_00146	10/25/15	09/25/15	Methanol, Lot 99494	10 mL	VOA8260MEGA1_00034	1 mL	1,1,1,2-Tetrachloroethane	250 ug/mL
							1,1,1-Trichloroethane	250 ug/mL
							1,1,2,2-Tetrachloroethane	250 ug/mL
							1,1,2-Trichloroethane	250 ug/mL
							1,1-Dichloroethane	250 ug/mL
							1,1-Dichloroethene	250 ug/mL
							1,2-Dibromoethane (EDB)	250 ug/mL
							1,2-Dichloroethane	250 ug/mL
							1,2-Dichloropropane	250 ug/mL
							1,4-Dioxane	5000 ug/mL
							Acrylonitrile	2500 ug/mL
							Benzene	250 ug/mL
							Bromochloromethane	250 ug/mL
							Bromodichloromethane	250 ug/mL
							Bromoform	250 ug/mL
							Carbon disulfide	250 ug/mL
							Carbon tetrachloride	250 ug/mL
							Chlorobenzene	250 ug/mL
							Chloroform	250 ug/mL
							cis-1,2-Dichloroethene	250 ug/mL
							cis-1,3-Dichloropropene	250 ug/mL
							Dibromochloromethane	250 ug/mL
							Ethylbenzene	250 ug/mL
							Methyl tert-butyl ether	250 ug/mL
							Methylene Chloride	250 ug/mL
							Styrene	250 ug/mL
							Tetrachloroethene	250 ug/mL
							Toluene	250 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48309-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							trans-1,2-Dichloroethene	250 ug/mL
							trans-1,3-Dichloropropene	250 ug/mL
							Trichloroethene	250 ug/mL
							Xylenes, Total	500 ug/mL
..VOA8260MEGA1_00034	02/28/16		Restek, Lot A0108166		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	2500 ug/mL
							1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL
							1,1,2-Trichloroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,2-Dibromoethane (EDB)	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropane	2500 ug/mL
							1,4-Dioxane	50000 ug/mL
							Acrylonitrile	25000 ug/mL
							Benzene	2500 ug/mL
							Bromochloromethane	2500 ug/mL
							Bromodichloromethane	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Dibromochloromethane	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							Methyl tert-butyl ether	2500 ug/mL
							Methylene Chloride	2500 ug/mL
							Styrene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Toluene	2500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL
							trans-1,3-Dichloropropene	2500 ug/mL
							Trichloroethene	2500 ug/mL
							Xylenes, Total	5000 ug/mL
VOAACROLEINPR_00006	09/11/15	08/11/15	Methanol, Lot 85233	100 mL	VOAACRORES_00077	0.125 mL	Acrolein	25 ug/mL
.VOAACRORES_00077	09/30/15		Restek, Lot A0111006		(Purchased Reagent)		Acrolein	20000 ug/mL
VOAVAPRI_00006	08/31/15	08/25/15	Methanol, Lot 85233	50 mL	VOA8260VARES_00054	0.25 mL	Vinyl acetate	25 ug/mL
.VOA8260VARES_00054	08/31/15		Restek, Lot A0109190		(Purchased Reagent)		Vinyl acetate	5000 ug/mL
voaWAcro2nd R_00006	08/07/15	07/07/15	Methanol, Lot 85233	100 mL	VOAACRRES2ND_00065	0.125 mL	Acrolein	25 ug/mL
.VOAACRRES2ND_00065	09/30/15		Restek, Lot A0111005		(Purchased Reagent)		Acrolein	20000 ug/mL
voaWEE1stRest_00001	09/21/15	08/21/15	Methanol, Lot 85233	25 mL	VOARESEE1ST_00021	0.125 mL	1,2-dichloro-4-(trifluoromethyl)benzene	25 ug/mL
							2,3,6-Trichlorotoluene	25 ug/mL
							2,3- & 3,4- Dichlorotoluene	50 ug/mL
							2,4,5-Trichlorotoluene	25 ug/mL

Lab Name: TestAmerica Pittsburgh Job No.: 180-48309-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,4- & 2,5- & 2,6-Dichlorotoluene	75 ug/mL
							2,4-Dichloro-1-(triflouromethyl)-benzene	25 ug/mL
							2,5-Dichlorobenzotrifluoride	25 ug/mL
							2-Chlorobenzotrifluoride	25 ug/mL
							3-Chlorobenzotrifluoride	25 ug/mL
							3-Chlorotoluene	25 ug/mL
							4-Chlorobenzotrifluoride	25 ug/mL
.VOARESEE1ST_00021	09/30/16		Restek, Lot A0109701		(Purchased Reagent)		1,2-dichloro-4-(trifluoromethyl)benzene	5000 ug/mL
							2,3,6-Trichlorotoluene	5000 ug/mL
							2,3- & 3,4- Dichlorotoluene	10000 ug/mL
							2,4,5-Trichlorotoluene	5000 ug/mL
							2,4- & 2,5- & 2,6-Dichlorotoluene	15000 ug/mL
							2,4-Dichloro-1-(triflouromethyl)-benzene	5000 ug/mL
							2,5-Dichlorobenzotrifluoride	5000 ug/mL
							2-Chlorobenzotrifluoride	5000 ug/mL
							3-Chlorobenzotrifluoride	5000 ug/mL
							3-Chlorotoluene	5000 ug/mL
							4-Chlorobenzotrifluoride	5000 ug/mL
voaWeemix1Res_00001	08/20/15	07/20/15	Methanol, Lot 85233	25 mL	VOARESEE1ST_00025	0.125 mL	1,2-dichloro-4-(trifluoromethyl)benzene	25 ug/mL
							2,3,6-Trichlorotoluene	25 ug/mL
							2,3- & 3,4- Dichlorotoluene	50 ug/mL
							2,4,5-Trichlorotoluene	25 ug/mL
							2,4- & 2,5- & 2,6-Dichlorotoluene	75 ug/mL
							2,4-Dichloro-1-(triflouromethyl)-benzene	25 ug/mL
							2,5-Dichlorobenzotrifluoride	25 ug/mL
							2-Chlorobenzotrifluoride	25 ug/mL
							3-Chlorobenzotrifluoride	25 ug/mL
							3-Chlorotoluene	25 ug/mL
							4-Chlorobenzotrifluoride	25 ug/mL
.VOARESEE1ST_00025	09/30/16		Restek, Lot A0109701		(Purchased Reagent)		1,2-dichloro-4-(trifluoromethyl)benzene	5000 ug/mL
							2,3,6-Trichlorotoluene	5000 ug/mL
							2,3- & 3,4- Dichlorotoluene	10000 ug/mL
							2,4,5-Trichlorotoluene	5000 ug/mL
							2,4- & 2,5- & 2,6-Dichlorotoluene	15000 ug/mL
							2,4-Dichloro-1-(triflouromethyl)-benzene	5000 ug/mL
							2,5-Dichlorobenzotrifluoride	5000 ug/mL
							2-Chlorobenzotrifluoride	5000 ug/mL
							3-Chlorobenzotrifluoride	5000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48309-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							3-Chlorotoluene	5000 ug/mL
							4-Chlorobenzotrifluoride	5000 ug/mL
voaWKet1 Rest_00001	09/11/15	08/11/15	Methanol, Lot 85233	50 mL	VOA8260KET1ST_00049	0.1 mL	2-Butanone (MEK)	25 ug/mL
							2-Hexanone	25 ug/mL
							4-Methyl-2-pentanone (MIBK)	25 ug/mL
							Acetone	25 ug/mL
.VOA8260KET1ST_00049	04/30/18		Restek, Lot A0110400		(Purchased Reagent)		2-Butanone (MEK)	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone (MIBK)	12500 ug/mL
							Acetone	12500 ug/mL
voaWket1Reste_00001	08/02/15	07/02/15	Methanol, Lot 85233	50 mL	VOA8260KET1ST_00046	0.1 mL	2-Butanone (MEK)	25 ug/mL
							2-Hexanone	25 ug/mL
							4-Methyl-2-pentanone (MIBK)	25 ug/mL
							Acetone	25 ug/mL
.VOA8260KET1ST_00046	04/30/18		Restek, Lot A0110400		(Purchased Reagent)		2-Butanone (MEK)	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone (MIBK)	12500 ug/mL
							Acetone	12500 ug/mL
voaWKet1stRes_00001	10/14/15	09/14/15	Methanol, Lot 99494	50 mL	VOA8260KET1ST_00051	0.1 mL	2-Butanone (MEK)	25 ug/mL
							2-Hexanone	25 ug/mL
							4-Methyl-2-pentanone (MIBK)	25 ug/mL
							Acetone	25 ug/mL
.VOA8260KET1ST_00051	04/30/18		Restek, Lot A0110400		(Purchased Reagent)		2-Butanone (MEK)	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone (MIBK)	12500 ug/mL
							Acetone	12500 ug/mL
voaWKetmix2nd_00002	10/22/15	09/22/15	Methanol, Lot 99494	50 mL	VOA8260KET2ND_00054	0.1 mL	2-Butanone (MEK)	25 ug/mL
							2-Hexanone	25 ug/mL
							4-Methyl-2-pentanone (MIBK)	25 ug/mL
							Acetone	25 ug/mL
.VOA8260KET2ND_00054	05/31/18		Restek, Lot A0110970		(Purchased Reagent)		2-Butanone (MEK)	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone (MIBK)	12500 ug/mL
							Acetone	12500 ug/mL
voaWVA1st Res_00003	08/23/15	07/23/15	Methanol, Lot 85233	25 mL	VOA8260VARES_00055	0.125 mL	Vinyl acetate	25 ug/mL
.VOA8260VARES_00055	08/31/15		Restek, Lot A0109190		(Purchased Reagent)		Vinyl acetate	5000 ug/mL

Reagent

sv benzoepyre_00001

Absolute Standards, Inc.
800-368-1131
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Certified Reference Material CRM

5V Benzo pyrene primary
100313

ISO 9001 QS Registered
ISO 17025-34-35-43 Accredited
Scopes: http://AbsoluteStandards.com

CERTIFIED WEIGHT REPORT

Part Number: 71016
Lot Number: 100313
Description: Benzo(e)pyrene

Expiration Date: 100318
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 1000

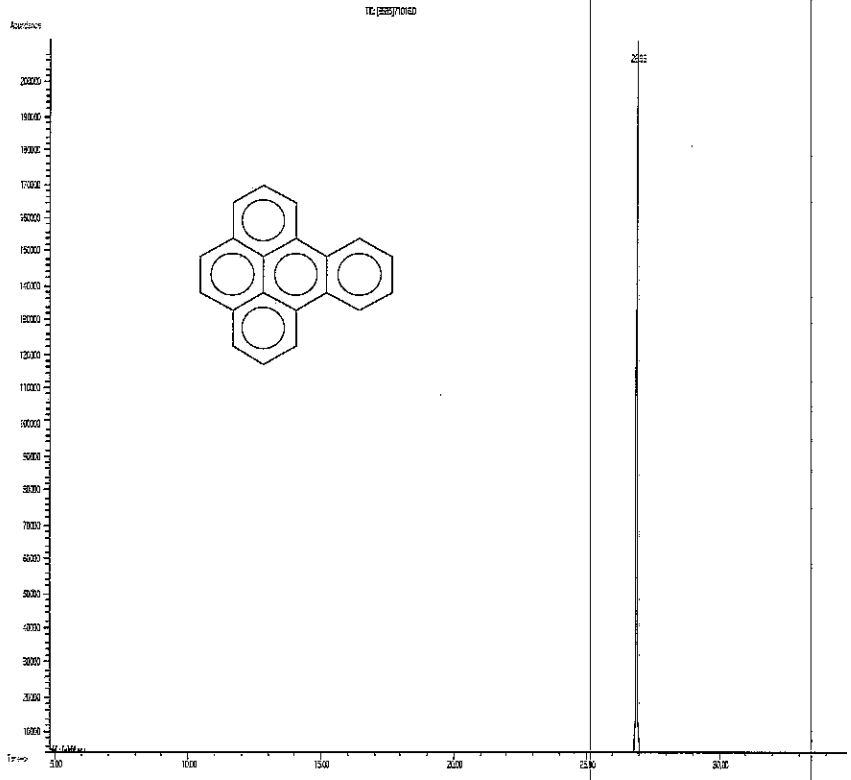
Solvent(s): Lot # 44325 Methylene chloride

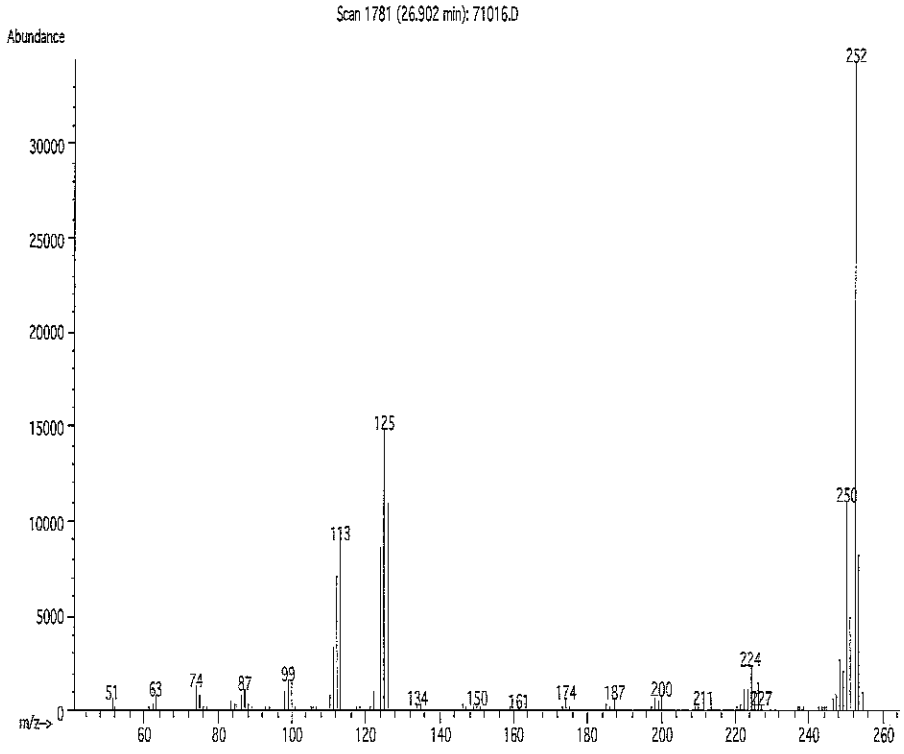
Weight(s) shown below were combined and diluted to: 100.0 5E-05 Balance Uncertainty 0.003 Flask Uncertainty

Formulated By:	Paul Barron	100313 DATE
Reviewed By:	Pedro L. Rentas	100313 DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty ± Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty	MSDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. Benzo(e)pyrene	1016	012011	1000	99	0.2	0.10100	0.10125	1002.5	0.0042	00192-97-2	N/A	N/A

Method GC8MSD-3.M: Column:SPB-5 (30m X 0.25mm ID X 0.25µm film thickness) Temp 1 = 50°C (1min.), Temp 2 = 300°C (9min.), Rate = 10°C/min., Injector B= 250°C, Detector B = 275°C, Split Ratio = 100:1, Scan Rate = 2. Analysis performed by: Candice Warren.





Reagent

SV2356TCPs_00002

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Certified Reference Material CRM

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ISO 17025-34-35-43 Accredited
Scopes: http://AbsoluteStandards.com

CERTIFIED WEIGHT REPORT

Part Number: 70315
Lot Number: 061711
Description: 2,3,5,6-Tetrachlorophenol

Expiration Date: 061716
Storage: 4 °C
Nominal Concentration (µg/mL): 1000

Solvent(s): Lot # J42S08 Methylene chloride

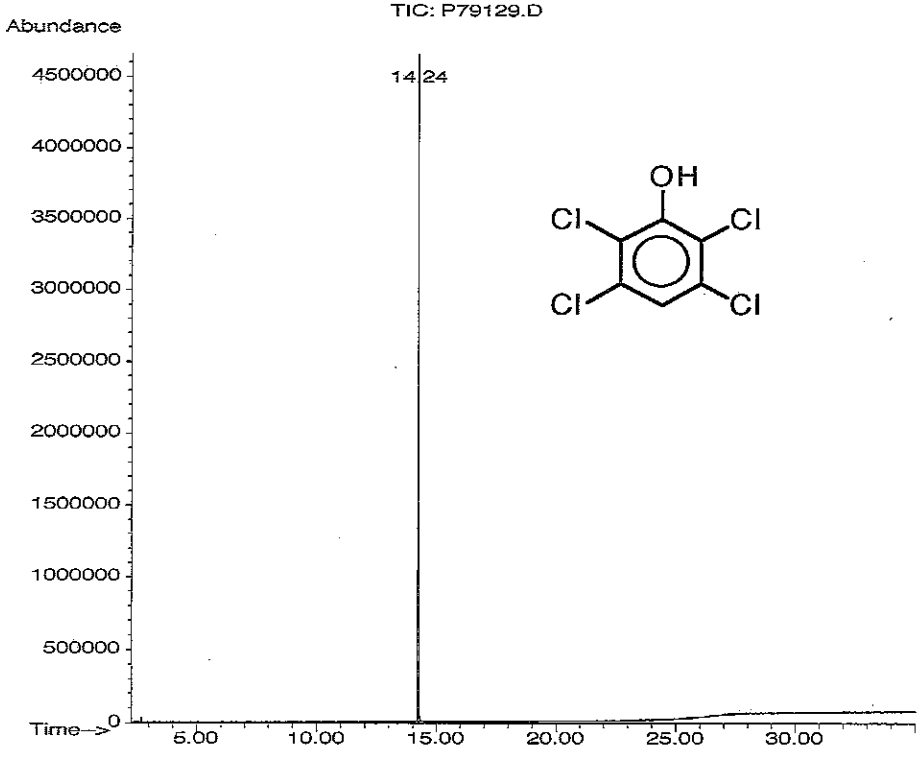
5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to: 25.0 0.001 Flask Uncertainty

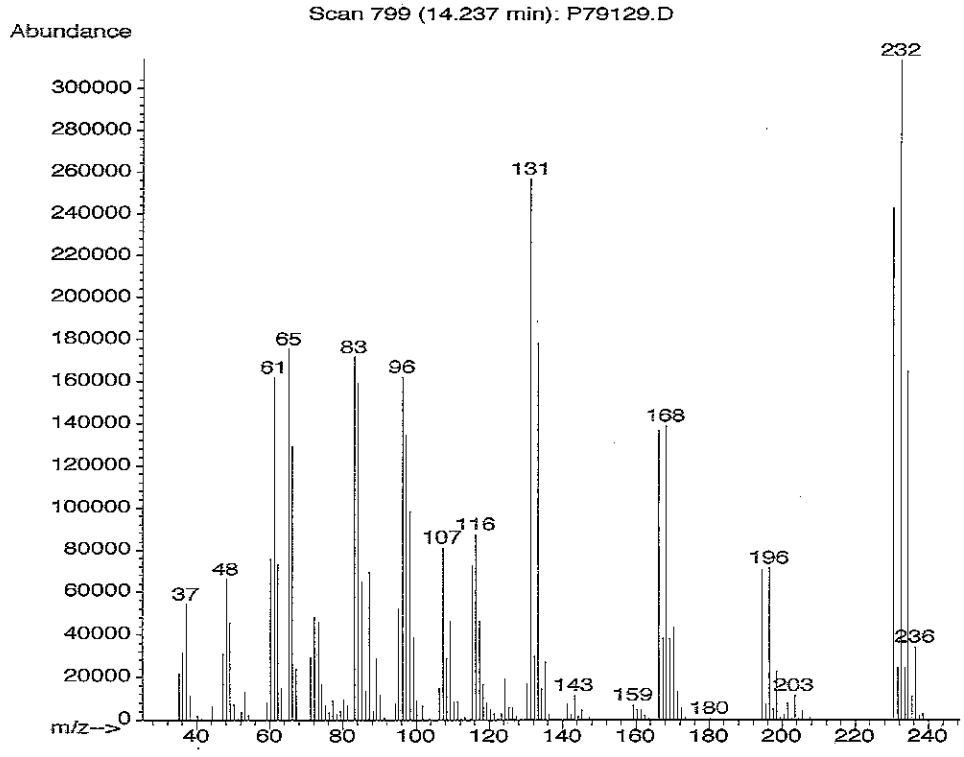
Formulated By: Pat Scaturchio	061711 DATE
Reviewed By: Pedro L. Rentas	061711 DATE

MSDS Information
(Solvent Safety Info. On Attached pg.)

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty : Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty	CAS#	OSHA PEL (TWA)	LD50
1. 2,3,5,6-Tetrachlorophenol	315	060697	1000	98	0.2	0.02550	0.02559	1003.4	0.0057	00935-95-5	N/A	N/A

Method GC8MSD-3.M: Column: SPB-5 (30m X 0.25mm ID X 0.25µm film thickness) Temp 1 = 50°C (1min.), Temp 2 = 300°C (9 min.), Rate = 10°C/min., Injector B= 200°C, Detector B = 300°C. Scan Rate = 2, Split Ratio = 100:1. Analysis performed by Lance R. Boynton.





Reagent

SV2NAPAMINEs_00002

Certificate of Analysis

2-Naphthylamine Solution

Product Number: EPA-1135 **Page:** 1 of 1

Lot Number: CK-1617 **Lot Issue Date:** 20-May-2013 **Expiration Date:** 30-Jun-2017

This certified Reference Material (RM) was manufactured and verified in accordance with ULTRA's ISO 9001 registered quality system, and the analyte concentrations were verified by our ISO 17025 accredited laboratory. The true value and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	True Value
2-naphthylamine	000091-59-8	RM06488	1001 ± 5 µg/mL

Matrix: methanol (methyl alcohol)

Storage: Store at Room Temperature (15-30°C)

ULTRA uses balances calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001, and calibrated Class A glassware in the manufacturing of these standards.

ACCREDITED
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ISO 9001:2008 Registered TUV USA, Inc. Cert. No. 09-1009

250 Smith Street, North Kingstown, RI 02852 USA
401-294-9400 Fax: 295-2330
wwww.ultrasci.com

William J. Leary
Quality Assurance Manager

Reagent

sv712dimbenza_00011

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Certified Reference Material CRM

ISO 9001 QS Registered
ISO 17025-34-35-43 Accredited
Scopes: http://AbsoluteStandards.com

CERTIFIED WEIGHT REPORT

		Solvent(s):	Lot#
Part Number:	70411		
Lot Number:	040915	Methylene chloride	72062
Description:	7,12-Dimethylbenz(a)anthracene		
Expiration Date:	040920		
Recommended Storage:	Refrigerate (4 °C)		
Nominal Concentration (µg/mL):	1000		

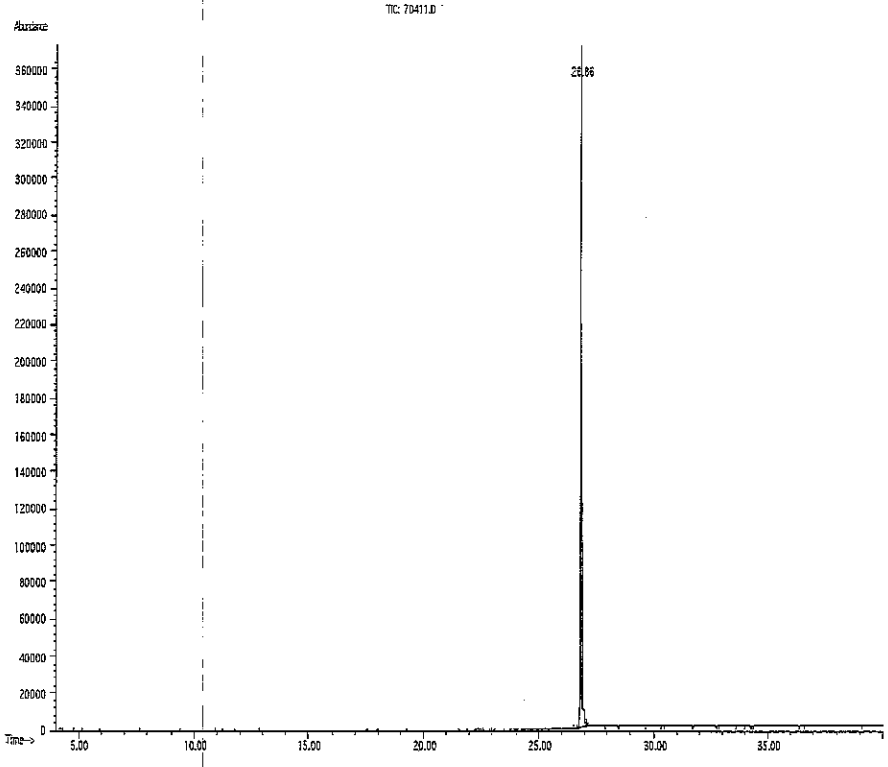
Weight(s) shown below were combined and diluted to (mL): 25.0 (5E-05 Balance Uncertainty, 0.001 Flask Uncertainty)

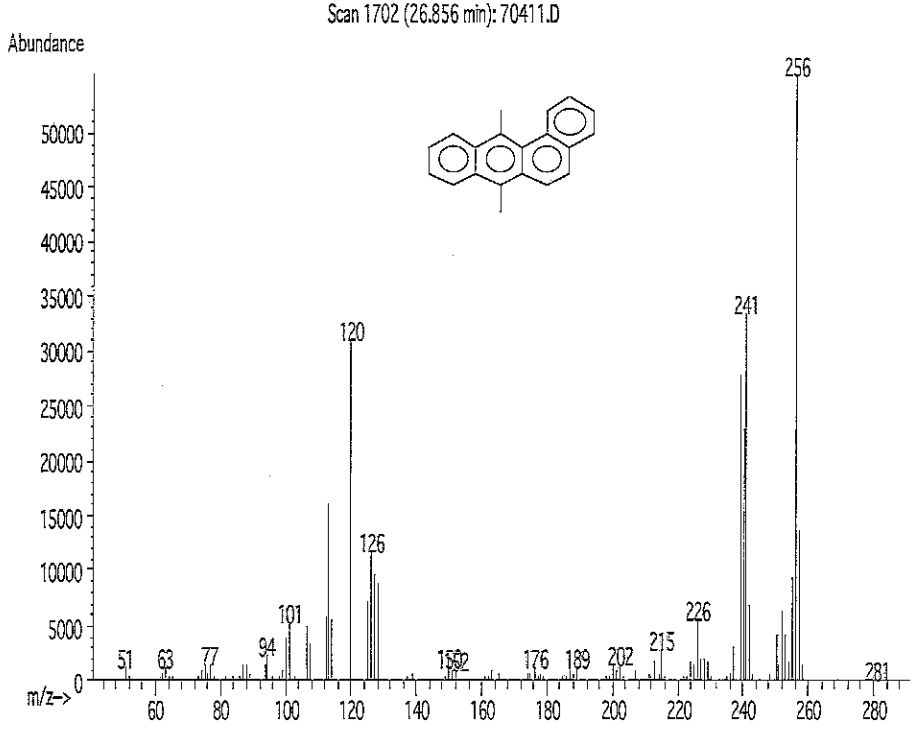
Paul Barron	040915	
Formulated By: Paul Barron	DATE	
Pedro L. Rentas	040915	
Reviewed By: Pedro L. Rentas	DATE	

MSDS Information (Solvent Safety Info. On Attached pg.)

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc(µg/mL)	Expanded Uncertainty	CAS#	OSHA PEL (TWA)	LD50
1. 7,12-Dimethylbenz(a)anthracene	411	GGR4E-DC	1000	98	0.2	0.02551	0.02553	1000.9	0.00566	00057-97-6	N/A	orl-rat 327mg/kg

Method GC8MSD-3.M: Column:SPB-5 (30m X 0.25mm ID X 0.25µm film thickness), Temp 1 = 50°C (1min.), Temp 2 = 300°C (9 min.), Rate = 10°C/min., Injector B= 200°C, Detector B = 300°C, Scan Rate = 2, Analysis performed by Candice Warren.





Reagent

SVLVIntstd_00003

RESTEK

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FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

5 VLV INT STD

Catalog No. : 567684 **Lot No.:** A093676

Description : 8270 Internal Standard

8270 Internal Standard 2,000µg/mL, Methylene Chloride, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : February 2018 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive.

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)		Expanded Uncertainty (95% C.L.; K=2)		
1	1,4-Dichlorobenzene-d4 CAS # 3855-82-1 Purity 99%	2,000.0	µg/mL	+/- 11.6282 +/- 92.7158 +/- 101.3766	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
2	Naphthalene-d8 CAS # 1146-65-2 Purity 99%	2,000.0	µg/mL	+/- 11.6282 +/- 92.7158 +/- 101.3766	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
3	Acenaphthene-d10 CAS # 15067-26-2 Purity 97%	2,000.0	µg/mL	+/- 11.6282 +/- 92.7163 +/- 101.3771	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
4	Phenanthrene-d10 CAS # 1517-22-2 Purity 99%	2,000.0	µg/mL	+/- 11.6282 +/- 92.7158 +/- 101.3766	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
5	Chrysene-d12 CAS # 1719-03-5 Purity 98%	2,000.0	µg/mL	+/- 11.6281 +/- 92.7150 +/- 101.3758	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
6	Perylene-d12 CAS # 1520-96-3 Purity 99%	2,000.0	µg/mL	+/- 11.6282 +/- 92.7158 +/- 101.3766	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
Solvent:	Methylene Chloride CAS # 75-09-2 Purity 99%					

Column:
30m x .25mm x .25um
Rtx-5 (cat.#10223)

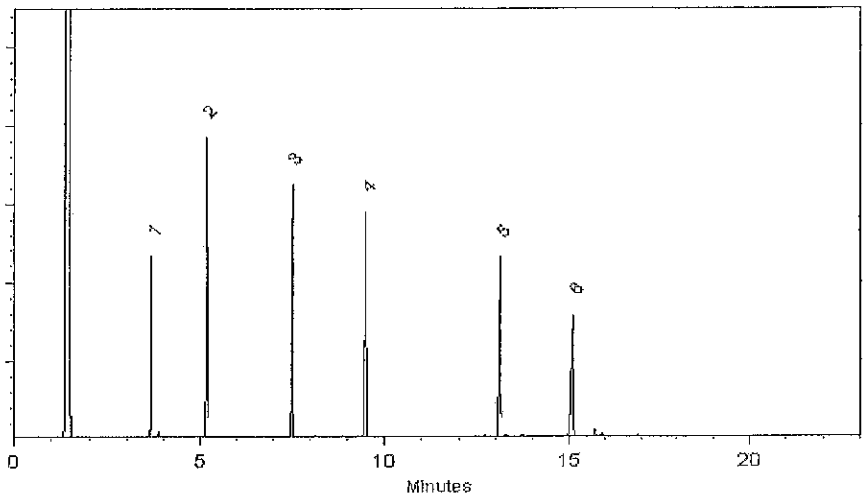
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



Jodi E. Breon - QA Analyst

Date Passed: 27-Feb-2013 Balance: 1128342313

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

Reagent

SVLVIntstd_00004

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Certificate #3222.02

Certificate of Analysis

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 567684 **Lot No.:** A093676

Description : 8270 Internal Standard

8270 Internal Standard 2,000µg/mL, Methylene Chloride, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : February 2018 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive.

C E R T I F I E D V A L U E S

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	1,4-Dichlorobenzene-d4	2,000.0 µg/mL	+/- 11.6282	µg/mL	Gravimetric
	CAS # 3855-82-1		+/- 92.7158	µg/mL	Unstressed
	Purity 99%		+/- 101.3766	µg/mL	Stressed
2	Naphthalene-d8	2,000.0 µg/mL	+/- 11.6282	µg/mL	Gravimetric
	CAS # 1146-65-2		+/- 92.7158	µg/mL	Unstressed
	Purity 99%		+/- 101.3766	µg/mL	Stressed
3	Acenaphthene-d10	2,000.0 µg/mL	+/- 11.6282	µg/mL	Gravimetric
	CAS # 15067-26-2		+/- 92.7163	µg/mL	Unstressed
	Purity 97%		+/- 101.3771	µg/mL	Stressed
4	Phenanthrene-d10	2,000.0 µg/mL	+/- 11.6282	µg/mL	Gravimetric
	CAS # 1517-22-2		+/- 92.7158	µg/mL	Unstressed
	Purity 99%		+/- 101.3766	µg/mL	Stressed
5	Chrysene-d12	2,000.0 µg/mL	+/- 11.6281	µg/mL	Gravimetric
	CAS # 1719-03-5		+/- 92.7150	µg/mL	Unstressed
	Purity 98%		+/- 101.3758	µg/mL	Stressed
6	Perylene-d12	2,000.0 µg/mL	+/- 11.6282	µg/mL	Gravimetric
	CAS # 1520-96-3		+/- 92.7158	µg/mL	Unstressed
	Purity 99%		+/- 101.3766	µg/mL	Stressed

Solvent: Methylene Chloride
CAS # 75-09-2
Purity 99%

Column:
30m x .25mm x .25um
Rtx-5 (cat.#10223)

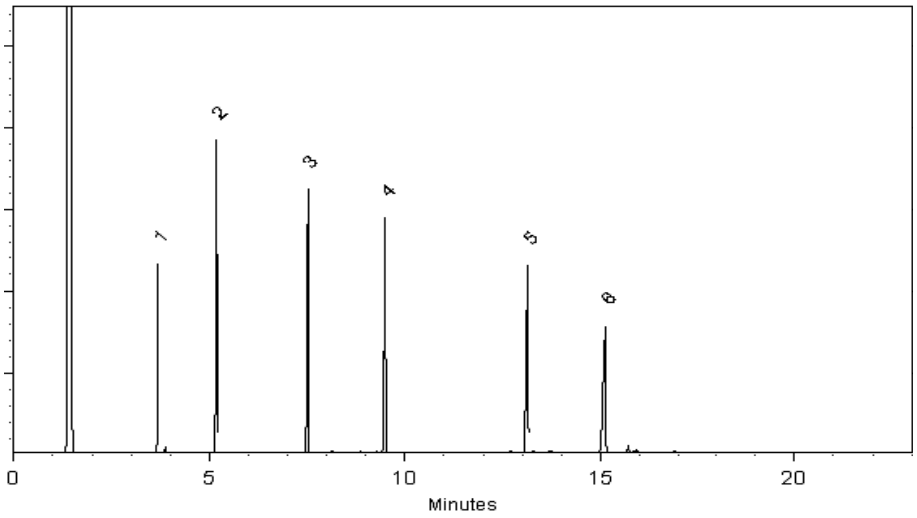
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



Jodi E. Breon - QA Analyst

Date Passed: 27-Feb-2013 **Balance:** 1128342313

Manufactured under Restek's ISO 9001:2008 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date of the unopened ampul stored at the recommended storage condition is the last day of the month listed in the expiration date field.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO Guides 34 and 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Samples should be transferred into deactivated vials for handling and storage. Restek supplies deactivated vials along with most standards packed in 2 mL ampules. Due to space constraints, Restek does not supply vials for larger volume ampules. Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31840, which includes complete instructions. Restek will also deactivate larger volume vials from our inventory as a custom ordered item. Contact your Restek sales or customer service representative for details.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

SVLVstd1_00032

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

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ISO Guide 34 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 569729 **Lot No.:** A0107399

Description : 8270 List 1 / Std #1 MegaMix (2015)

8270 List 1 / Std #1 MegaMix (2015) 500-2000 ug/ml, Methylene Chloride, 5 ml/ampul

Container Size : 10 mL **Pkg Amt:** > 5 mL

Expiration Date : May 31, 2016 **Storage:** 10°C or colder

Handling: Carcinogen/reproductive toxin. Photosensitive. Sonicate.

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	1,4-Dioxane **CAS #** 123-91-1 **Purity** 99%	(Lot SHBD8744V)	1,004.4 µg/mL	+/- 5.8397 µg/mL +/- 10.9969 µg/mL +/- 18.6525 µg/mL		Gravimetric Unstressed Stressed
2	Pyridine **CAS #** 110-86-1 **Purity** 99%	(Lot SHBC7174V)	1,001.0 µg/mL	+/- 5.8199 µg/mL +/- 10.9596 µg/mL +/- 18.5894 µg/mL		Gravimetric Unstressed Stressed
3	N-Nitrosodimethylamine **CAS #** 62-75-9 **Purity** 99%	(Lot 3213100)	1,000.2 µg/mL	+/- 5.8152 µg/mL +/- 10.9509 µg/mL +/- 18.5745 µg/mL		Gravimetric Unstressed Stressed
4	Aniline **CAS #** 62-53-3 **Purity** 99%	(Lot K22Z462)	1,002.3 µg/mL	+/- 5.8275 µg/mL +/- 10.9739 µg/mL +/- 18.6135 µg/mL		Gravimetric Unstressed Stressed
5	Bis(2-chloroethyl)ether **CAS #** 111-44-4 **Purity** 99%	(Lot 45296HKV)	1,001.4 µg/mL	+/- 5.8222 µg/mL +/- 10.9640 µg/mL +/- 18.5968 µg/mL		Gravimetric Unstressed Stressed
6	2-Chlorophenol **CAS #** 95-57-8 **Purity** 99%	(Lot MKBD3900V)	1;000.8 µg/mL	+/- 5.8187 µg/mL +/- 10.9575 µg/mL +/- 18.5856 µg/mL		Gravimetric Unstressed Stressed
7	Phenol **CAS #** 108-95-2 **Purity** 99%	(Lot SHBC6998V)	1,006.9 µg/mL	+/- 5.8542 µg/mL +/- 11.0242 µg/mL +/- 18.6989 µg/mL		Gravimetric Unstressed Stressed

24	Bis(2-chloroethoxy)methane **CAS #** 111-91-1 **Purity** 99%	(Lot 317200)	1,004.5	µg/mL	+/- 5.8402 +/- 10.9980 +/- 18.6544	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
25	2,4-Dichlorophenol **CAS #** 120-83-2 **Purity** 99%	(Lot BCBH1617V)	1,000.0	µg/mL	+/- 5.8141 +/- 10.9487 +/- 18.5708	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
26	1,2,4-Trichlorobenzene **CAS #** 120-82-1 **Purity** 99%	(Lot 26896BM)	1,000.6	µg/mL	+/- 5.8176 +/- 10.9553 +/- 18.5819	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
27	Naphthalene **CAS #** 91-20-3 **Purity** 99%	(Lot MKBH4351V)	1,002.3	µg/mL	+/- 5.8275 +/- 10.9739 +/- 18.6135	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
28	2,6-Dichlorophenol **CAS #** 87-65-0 **Purity** 99%	(Lot MKBN2776V)	1,000.1	µg/mL	+/- 5.8147 +/- 10.9498 +/- 18.5726	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
29	4-Chloroaniline **CAS #** 106-47-8 **Purity** 98%	(Lot 12528PH)	1,000.3	µg/mL	+/- 5.8157 +/- 10.9518 +/- 18.5761	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
30	Hexachlorobutadiene **CAS #** 87-68-3 **Purity** 98%	(Lot K22W009)	999.9	µg/mL	+/- 5.8135 +/- 10.9475 +/- 18.5688	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
31	2-Methylnaphthalene **CAS #** 91-57-6 **Purity** 96%	(Lot 19399MJV)	998.6	µg/mL	+/- 5.8059 +/- 10.9333 +/- 18.5446	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
32	4-Chloro-3-methylphenol **CAS #** 59-50-7 **Purity** 99%	(Lot STBC0769V)	1,001.3	µg/mL	+/- 5.8216 +/- 10.9629 +/- 18.5949	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
33	1-Methylnaphthalene **CAS #** 90-12-0 **Purity** 99%	(Lot 525000-10)	1,000.0	µg/mL	+/- 5.8141 +/- 10.9487 +/- 18.5708	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
34	1,2,4,5-Tetrachlorobenzene **CAS #** 95-94-3 **Purity** 99%	(Lot 06024AIV)	1,000.2	µg/mL	+/- 5.8152 +/- 10.9509 +/- 18.5745	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
35	Hexachlorocyclopentadiene **CAS #** 77-47-4 **Purity** 99%	(Lot 3140300)	1,002.4	µg/mL	+/- 5.8280 +/- 10.9750 +/- 18.6154	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
36	2,4,6-Trichlorophenol **CAS #** 88-06-2 **Purity** 99%	(Lot MKBH7393V)	1,001.4	µg/mL	+/- 5.8222 +/- 10.9640 +/- 18.5968	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
37	2,4,5-Trichlorophenol **CAS #** 95-95-4 **Purity** 99%	(Lot FHM01)	1,000.0	µg/mL	+/- 5.8141 +/- 10.9487 +/- 18.5708	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
38	2-Chloronaphthalene **CAS #** 91-58-7 **Purity** 99%	(Lot FIJ01)	1,000.0	µg/mL	+/- 5.8141 +/- 10.9487 +/- 18.5708	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
39	Biphenyl **CAS #** 92-52-4 **Purity** 99%	(Lot 1277976)	1,006.1	µg/mL	+/- 5.8496 +/- 11.0155 +/- 18.6841	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

56	Azobenzene		1,002.3	µg/mL	+/-	5.8275	µg/mL	Gravimetric
	CAS # 103-33-3	(Lot MKBS2559V)			+/-	10.9739	µg/mL	Unstressed
	Purity 99%				+/-	18.6135	µg/mL	Stressed
57	Diphenylamine		1,713.4	µg/mL	+/-	9.9619	µg/mL	Gravimetric
	CAS # 122-39-4	(Lot 07525MF)			+/-	18.7595	µg/mL	Unstressed
	Purity 99%				+/-	31.8192	µg/mL	Stressed
58	4-Nitroaniline		1,002.8	µg/mL	+/-	5.8304	µg/mL	Gravimetric
	CAS # 100-01-6	(Lot BCBG4702V)			+/-	10.9794	µg/mL	Unstressed
	Purity 99%				+/-	18.6228	µg/mL	Stressed
59	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)		2,002.0	µg/mL	+/-	11.6398	µg/mL	Gravimetric
	CAS # 534-52-1	(Lot LC06195V)			+/-	21.9193	µg/mL	Unstressed
	Purity 99%				+/-	37.1787	µg/mL	Stressed
60	4-Bromophenyl phenyl ether		1,000.5	µg/mL	+/-	5.8170	µg/mL	Gravimetric
	CAS # 101-55-3	(Lot STBB9729V)			+/-	10.9542	µg/mL	Unstressed
	Purity 99%				+/-	18.5801	µg/mL	Stressed
61	Hexachlorobenzene		1,002.1	µg/mL	+/-	5.8260	µg/mL	Gravimetric
	CAS # 118-74-1	(Lot LC04221V)			+/-	10.9711	µg/mL	Unstressed
	Purity 98%				+/-	18.6089	µg/mL	Stressed
62	Pentachlorophenol		2,000.3	µg/mL	+/-	11.6299	µg/mL	Gravimetric
	CAS # 87-86-5	(Lot 140626JLM)			+/-	21.9007	µg/mL	Unstressed
	Purity 99%				+/-	37.1471	µg/mL	Stressed
63	Phenanthrene		999.0	µg/mL	+/-	5.8083	µg/mL	Gravimetric
	CAS # 85-01-8	(Lot MKBL6906V)			+/-	10.9379	µg/mL	Unstressed
	Purity 98%				+/-	18.5524	µg/mL	Stressed
64	n-Octadecane (C18)		1,006.5	µg/mL	+/-	5.8519	µg/mL	Gravimetric
	CAS # 593-45-3	(Lot OGCDK)			+/-	11.0199	µg/mL	Unstressed
	Purity 99%				+/-	18.6915	µg/mL	Stressed
65	Anthracene		1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 120-12-7	(Lot MKBK5208V)			+/-	10.9487	µg/mL	Unstressed
	Purity 99%				+/-	18.5708	µg/mL	Stressed
66	Carbazole		1,000.1	µg/mL	+/-	5.8146	µg/mL	Gravimetric
	CAS # 86-74-8	(Lot S42950-417)			+/-	10.9497	µg/mL	Unstressed
	Purity 98%				+/-	18.5725	µg/mL	Stressed
67	Di-n-butylphthalate		1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 84-74-2	(Lot MKBL8501V)			+/-	10.9487	µg/mL	Unstressed
	Purity 99%				+/-	18.5708	µg/mL	Stressed
68	Fluoranthene		999.7	µg/mL	+/-	5.8123	µg/mL	Gravimetric
	CAS # 206-44-0	(Lot MKBQ6360V)			+/-	10.9454	µg/mL	Unstressed
	Purity 98%				+/-	18.5652	µg/mL	Stressed
69	Pyrene		999.1	µg/mL	+/-	5.8089	µg/mL	Gravimetric
	CAS # 129-00-0	(Lot BCBJ0984V)			+/-	10.9390	µg/mL	Unstressed
	Purity 98%				+/-	18.5543	µg/mL	Stressed
70	Benzyl butyl phthalate		1,001.2	µg/mL	+/-	5.8211	µg/mL	Gravimetric
	CAS # 85-68-7	(Lot 03027HV)			+/-	10.9618	µg/mL	Unstressed
	Purity 99%				+/-	18.5931	µg/mL	Stressed
71	Benz(a)anthracene		1,001.4	µg/mL	+/-	5.8222	µg/mL	Gravimetric
	CAS # 56-55-3	(Lot ER031412-01)			+/-	10.9640	µg/mL	Unstressed
	Purity 99%				+/-	18.5968	µg/mL	Stressed

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

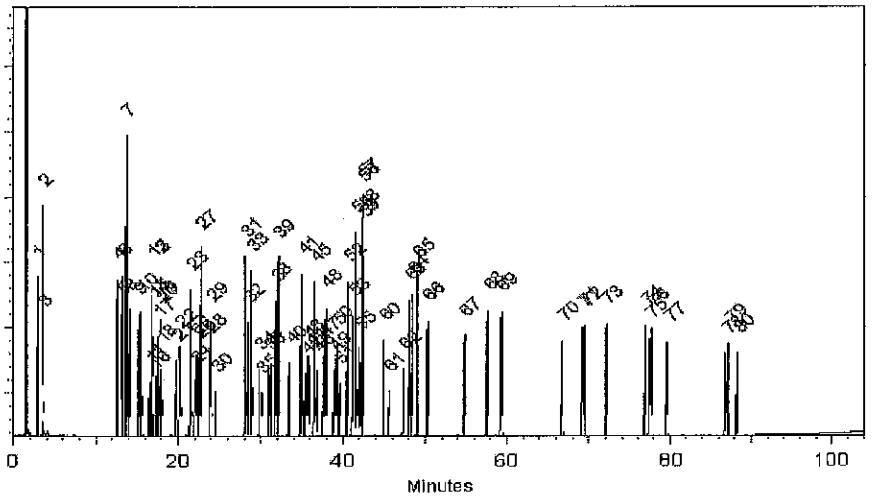
Carrier Gas:
hydrogen-constant pressure 10 psi

Temp. Program:
35°C (hold 3 min.) to 330°C
@ 3°C/min. (hold 3 min.)

Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

F. Joseph Fallon - Mix Technician

Date Mixed: 24-Nov-2014 **Balance:** 1128360905

Jodi E. Breon - QA Analyst

Date Passed: 05-Dec-2014

Manufactured under Restek's ISO 9001:2008 Registered Quality System Certificate #FM 80397

Reagent

SVLVstd1_00036

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ISO Guide 34 Accredited Reference Material Producer Certificate #3222.01

ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 569729 **Lot No.:** A0109703

Description : 8270 List 1 / Std #1 MegaMix (2015)

8270 List 1 / Std #1 MegaMix (2015) 500-2000 ug/ml, Methylene Chloride, 5 ml/ampul

Container Size : 10 mL **Pkg Amt:** > 5 mL

Expiration Date : September 30, 2016 **Storage:** 10°C or colder

Handling: Carcinogen/reproductive toxin. Photosensitive. Sonicate.

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	1,4-Dioxane		1,001.8 µg/mL	+/- 5.8246 µg/mL		Gravimetric
	CAS # 123-91-1	(Lot SHBF2002V)		+/- 10.9684 µg/mL		Unstressed
	Purity 99%			+/- 18.6042 µg/mL		Stressed
2	Pyridine		1,004.7 µg/mL	+/- 5.8414 µg/mL		Gravimetric
	CAS # 110-86-1	(Lot SHBC7174V)		+/- 11.0002 µg/mL		Unstressed
	Purity 99%			+/- 18.6581 µg/mL		Stressed
3	N-Nitrosodimethylamine		1,000.0 µg/mL	+/- 5.8141 µg/mL		Gravimetric
	CAS # 62-75-9	(Lot 3498100)		+/- 10.9487 µg/mL		Unstressed
	Purity 99%			+/- 18.5708 µg/mL		Stressed
4	Aniline		1,000.9 µg/mL	+/- 5.8193 µg/mL		Gravimetric
	CAS # 62-53-3	(Lot K22Z462)		+/- 10.9586 µg/mL		Unstressed
	Purity 99%			+/- 18.5875 µg/mL		Stressed
5	Bis(2-chloroethyl)ether		1,001.9 µg/mL	+/- 5.8251 µg/mL		Gravimetric
	CAS # 111-44-4	(Lot 45296HKV)		+/- 10.9695 µg/mL		Unstressed
	Purity 99%			+/- 18.6061 µg/mL		Stressed
6	2-Chlorophenol		1,001.4 µg/mL	+/- 5.8222 µg/mL		Gravimetric
	CAS # 95-57-8	(Lot MKBD3900V)		+/- 10.9640 µg/mL		Unstressed
	Purity 99%			+/- 18.5968 µg/mL		Stressed
7	Phenol		1,000.3 µg/mL	+/- 5.8158 µg/mL		Gravimetric
	CAS # 108-95-2	(Lot SHBC6998V)		+/- 10.9520 µg/mL		Unstressed
	Purity 99%			+/- 18.5764 µg/mL		Stressed

24	Bis(2-chloroethoxy)methane		1,002.1	µg/mL	+/-	5.8263	µg/mL	Gravimetric
	CAS # 111-91-1	(Lot 2238100)			+/-	10.9717	µg/mL	Unstressed
	Purity 99%				+/-	18.6098	µg/mL	Stressed
25	2,4-Dichlorophenol		1,002.8	µg/mL	+/-	5.8304	µg/mL	Gravimetric
	CAS # 120-83-2	(Lot BCBH1617V)			+/-	10.9794	µg/mL	Unstressed
	Purity 99%				+/-	18.6228	µg/mL	Stressed
26	1,2,4-Trichlorobenzene		1,000.4	µg/mL	+/-	5.8163	µg/mL	Gravimetric
	CAS # 120-82-1	(Lot SHBC5541V)			+/-	10.9529	µg/mL	Unstressed
	Purity 98%				+/-	18.5779	µg/mL	Stressed
27	Naphthalene		1,002.5	µg/mL	+/-	5.8286	µg/mL	Gravimetric
	CAS # 91-20-3	(Lot MKBH4351V)			+/-	10.9761	µg/mL	Unstressed
	Purity 99%				+/-	18.6172	µg/mL	Stressed
28	2,6-Dichlorophenol		1,001.7	µg/mL	+/-	5.8240	µg/mL	Gravimetric
	CAS # 87-65-0	(Lot MKBN2776V)			+/-	10.9673	µg/mL	Unstressed
	Purity 99%				+/-	18.6024	µg/mL	Stressed
29	4-Chloroaniline		1,000.3	µg/mL	+/-	5.8157	µg/mL	Gravimetric
	CAS # 106-47-8	(Lot 12528PH)			+/-	10.9518	µg/mL	Unstressed
	Purity 98%				+/-	18.5761	µg/mL	Stressed
30	Hexachlorobutadiene		1,002.1	µg/mL	+/-	5.8260	µg/mL	Gravimetric
	CAS # 87-68-3	(Lot J31X013)			+/-	10.9711	µg/mL	Unstressed
	Purity 98%				+/-	18.6089	µg/mL	Stressed
31	2-Methylnaphthalene		1,000.2	µg/mL	+/-	5.8154	µg/mL	Gravimetric
	CAS # 91-57-6	(Lot 19399MJV)			+/-	10.9512	µg/mL	Unstressed
	Purity 96%				+/-	18.5749	µg/mL	Stressed
32	4-Chloro-3-methylphenol		1,000.9	µg/mL	+/-	5.8193	µg/mL	Gravimetric
	CAS # 59-50-7	(Lot STBC0769V)			+/-	10.9586	µg/mL	Unstressed
	Purity 99%				+/-	18.5875	µg/mL	Stressed
33	1-Methylnaphthalene		990.0	µg/mL	+/-	5.7692	µg/mL	Gravimetric
	CAS # 90-12-0	(Lot 525000-10)			+/-	10.8463	µg/mL	Unstressed
	Purity 99%				+/-	18.3892	µg/mL	Stressed
34	1,2,4,5-Tetrachlorobenzene		1,000.2	µg/mL	+/-	5.8152	µg/mL	Gravimetric
	CAS # 95-94-3	(Lot 06024AIV)			+/-	10.9509	µg/mL	Unstressed
	Purity 99%				+/-	18.5745	µg/mL	Stressed
35	Hexachlorocyclopentadiene		1,000.2	µg/mL	+/-	5.8152	µg/mL	Gravimetric
	CAS # 77-47-4	(Lot 3691100)			+/-	10.9509	µg/mL	Unstressed
	Purity 99%				+/-	18.5745	µg/mL	Stressed
36	2,4,6-Trichlorophenol		999.9	µg/mL	+/-	5.8135	µg/mL	Gravimetric
	CAS # 88-06-2	(Lot MKBL4698V)			+/-	10.9475	µg/mL	Unstressed
	Purity 98%				+/-	18.5688	µg/mL	Stressed
37	2,4,5-Trichlorophenol		1,002.2	µg/mL	+/-	5.8269	µg/mL	Gravimetric
	CAS # 95-95-4	(Lot FHM01)			+/-	10.9728	µg/mL	Unstressed
	Purity 99%				+/-	18.6116	µg/mL	Stressed
38	2-Chloronaphthalene		1,000.3	µg/mL	+/-	5.8158	µg/mL	Gravimetric
	CAS # 91-58-7	(Lot FIJ01)			+/-	10.9520	µg/mL	Unstressed
	Purity 99%				+/-	18.5764	µg/mL	Stressed
39	Biphenyl		1,002.7	µg/mL	+/-	5.8298	µg/mL	Gravimetric
	CAS # 92-52-4	(Lot 1277976)			+/-	10.9783	µg/mL	Unstressed
	Purity 99%				+/-	18.6209	µg/mL	Stressed

56	Azobenzene		1,000.9	µg/mL	+/-	5.8193	µg/mL	Gravimetric
	CAS # 103-33-3	(Lot MKBS2559V)			+/-	10.9586	µg/mL	Unstressed
	Purity 99%				+/-	18.5875	µg/mL	Stressed
57	Diphenylamine		1,701.0	µg/mL	+/-	9.8898	µg/mL	Gravimetric
	CAS # 122-39-4	(Lot MKBN8295V)			+/-	18.6237	µg/mL	Unstressed
	Purity 99%				+/-	31.5889	µg/mL	Stressed
58	4-Nitroaniline		1,002.6	µg/mL	+/-	5.8292	µg/mL	Gravimetric
	CAS # 100-01-6	(Lot BCBG4702V)			+/-	10.9772	µg/mL	Unstressed
	Purity 99%				+/-	18.6191	µg/mL	Stressed
59	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)		2,000.8	µg/mL	+/-	11.6328	µg/mL	Gravimetric
	CAS # 534-52-1	(Lot LC06195V)			+/-	21.9062	µg/mL	Unstressed
	Purity 99%				+/-	37.1564	µg/mL	Stressed
60	4-Bromophenyl phenyl ether		999.5	µg/mL	+/-	5.8112	µg/mL	Gravimetric
	CAS # 101-55-3	(Lot STBB9729V)			+/-	10.9432	µg/mL	Unstressed
	Purity 98%				+/-	18.5615	µg/mL	Stressed
61	Hexachlorobenzene		1,002.7	µg/mL	+/-	5.8300	µg/mL	Gravimetric
	CAS # 118-74-1	(Lot LC04221V)			+/-	10.9787	µg/mL	Unstressed
	Purity 98%				+/-	18.6216	µg/mL	Stressed
62	Pentachlorophenol		2,006.0	µg/mL	+/-	11.6631	µg/mL	Gravimetric
	CAS # 87-86-5	(Lot 150212JLM)			+/-	21.9631	µg/mL	Unstressed
	Purity 99%				+/-	37.2530	µg/mL	Stressed
63	Phenanthrene		1,001.9	µg/mL	+/-	5.8249	µg/mL	Gravimetric
	CAS # 85-01-8	(Lot MKBQ8219V)			+/-	10.9690	µg/mL	Unstressed
	Purity 98%				+/-	18.6052	µg/mL	Stressed
64	n-Octadecane (C18)		1,000.3	µg/mL	+/-	5.8158	µg/mL	Gravimetric
	CAS # 593-45-3	(Lot OGCDK)			+/-	10.9520	µg/mL	Unstressed
	Purity 99%				+/-	18.5764	µg/mL	Stressed
65	Anthracene		1,001.2	µg/mL	+/-	5.8211	µg/mL	Gravimetric
	CAS # 120-12-7	(Lot MKBR2268V)			+/-	10.9618	µg/mL	Unstressed
	Purity 99%				+/-	18.5931	µg/mL	Stressed
66	Carbazole		1,002.9	µg/mL	+/-	5.8311	µg/mL	Gravimetric
	CAS # 86-74-8	(Lot S42950-417)			+/-	10.9808	µg/mL	Unstressed
	Purity 98%				+/-	18.6252	µg/mL	Stressed
67	Di-n-butylphthalate		1,001.5	µg/mL	+/-	5.8228	µg/mL	Gravimetric
	CAS # 84-74-2	(Lot MKBL8501V)			+/-	10.9651	µg/mL	Unstressed
	Purity 99%				+/-	18.5986	µg/mL	Stressed
68	Fluoranthene		999.8	µg/mL	+/-	5.8129	µg/mL	Gravimetric
	CAS # 206-44-0	(Lot MKBQ6360V)			+/-	10.9465	µg/mL	Unstressed
	Purity 98%				+/-	18.5670	µg/mL	Stressed
69	Pyrene		1,001.3	µg/mL	+/-	5.8216	µg/mL	Gravimetric
	CAS # 129-00-0	(Lot BCBL6786V)			+/-	10.9629	µg/mL	Unstressed
	Purity 99%				+/-	18.5949	µg/mL	Stressed
70	Benzyl butyl phthalate		1,000.2	µg/mL	+/-	5.8152	µg/mL	Gravimetric
	CAS # 85-68-7	(Lot 03027HV)			+/-	10.9509	µg/mL	Unstressed
	Purity 99%				+/-	18.5745	µg/mL	Stressed
71	Benz(a)anthracene		1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 56-55-3	(Lot ER031412-01)			+/-	10.9487	µg/mL	Unstressed
	Purity 99%				+/-	18.5708	µg/mL	Stressed

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

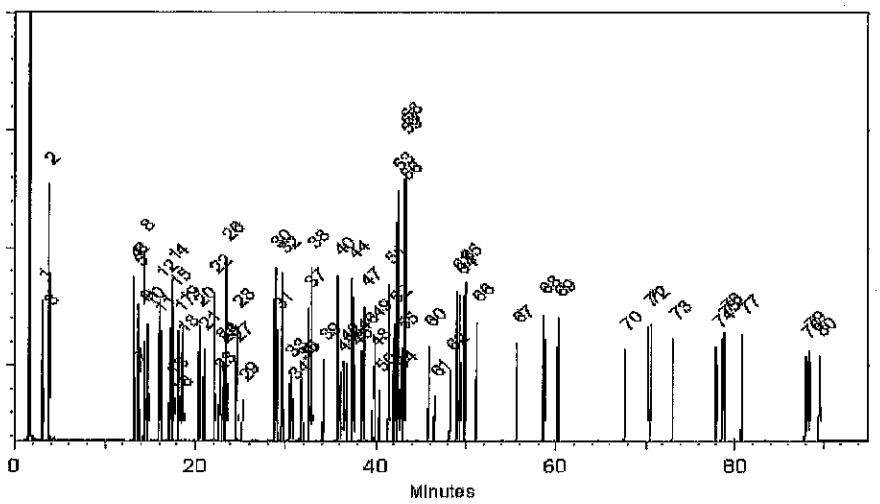
Carrier Gas:
hydrogen-constant pressure 10 psi

Temp. Program:
35°C (hold 3 min.) to 330°C
@ 3°C/min. (hold 3 min.)

Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Kendra Swope - Mix Technician

Date Mixed: 16-Mar-2015 **Balance:** B442140311

Tyler Brown - QA Analyst

Date Passed: 23-Mar-2015

Manufactured under Restek's ISO 9001:2008 Registered Quality System Certificate #FM 80397

Reagent

SVLVstd10_00001

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

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ISO Guide 34 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 569731 **Lot No.:** A0107943

Description : 8270 List 1 / Std #10

8270 List 1 / Std #10 2,000 ug/ml, Methylene Chloride, 5 ml/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : June 30, 2016 **Storage:** 10°C or colder

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Indene		2,001.4 µg/mL	+/- 11.6363	µg/mL	Gravimetric
	CAS # 95-13-6	(Lot MKBP3098V)		+/- 22.5687	µg/mL	Unstressed
	Purity 99%			+/- 25.9700	µg/mL	Stressed
2	Benzoic acid		2,005.8 µg/mL	+/- 11.6619	µg/mL	Gravimetric
	CAS # 65-85-0	(Lot MKBL6689V)		+/- 22.6183	µg/mL	Unstressed
	Purity 99%			+/- 26.0271	µg/mL	Stressed

Solvent: Methylene Chloride
CAS # 75-09-2
Purity 99%

Reagent

SVLVstd11_00001

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Catalog No. : 569732 **Lot No.:** A0108035

Description : 8270 List 1 / Std #11

8270 List 1 / Std #11 2,000 ug/ml, Methylene Chloride, 5 ml/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : June 30, 2016 **Storage:** 10°C or colder

Handling: This product is photosensitive.

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)		Expanded Uncertainty (95% C.L.; K=2)		
1	Benzaldehyde		2,000.6 µg/mL		+/- 11.6317	µg/mL	Gravimetric
	CAS # 100-52-7	(Lot SHBD3510V)			+/- 64.1305	µg/mL	Unstressed
	Purity 99%				+/- 74.5493	µg/mL	Stressed
2	epsilon-Caprolactam		2,001.2 µg/mL		+/- 11.6351	µg/mL	Gravimetric
	CAS # 105-60-2	(Lot I16X016)			+/- 64.1498	µg/mL	Unstressed
	Purity 99%				+/- 74.5716	µg/mL	Stressed
3	Atrazine		2,004.3 µg/mL		+/- 11.6532	µg/mL	Gravimetric
	CAS # 1912-24-9	(Lot TZ8ED)			+/- 64.2490	µg/mL	Unstressed
	Purity 98%				+/- 74.6870	µg/mL	Stressed

Solvent: Methylene Chloride
CAS # 75-09-2
Purity 99%

Reagent

SVLVstd9_00001

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Catalog No. : 569730 **Lot No.:** A0108709

Description : 8270 List 1 / Std #9

8270 List 1 / Std #9 2,000 ug/ml, Methylene Chloride, 5 ml/ampul

Container Size : 10 mL **Pkg Amt:** > 5 mL

Expiration Date : July 31, 2016 **Storage:** 10°C or colder

Handling: Contains carcinogen/reproductive toxin.

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Benzidine **CAS #** 92-87-5 (Lot 141208JLM) **Purity** 99%	2,006.6 µg/mL	+/- 11.6665 +/- 21.9697 +/- 37.2641	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
2	3,3'-Dichlorobenzidine **CAS #** 91-94-1 (Lot 141205JLM) **Purity** 99%	2,001.0 µg/mL	+/- 11.6340 +/- 21.9083 +/- 37.1601	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

Solvent: Methylene Chloride
CAS # 75-09-2
Purity 99%

Reagent

SVLVSURRSPK_00011

SV 8270 SURROGATE

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CT # 1310492

91
90
89
88

Catalog No. : 567685 **Lot No.:** A0103615

Description : 8270 Surrogate Standard

8270 Surrogate Standard 5,000 ug/ml, Methylene Chloride, 5 ml/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : May 31, 2019 **Storage:** 10°C or colder

Handling: Sonicate prior to use.

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	2-Fluorophenol **CAS #** 367-12-4 (Lot STBC5591V) **Purity** 99%	5,003.5 µg/mL	+/- 29.0892 µg/mL +/- 124.6713 µg/mL +/- 156.7818 µg/mL	Gravimetric Unstressed Stressed
2	Phenol-d5 **CAS #** 4165-62-2 (Lot M387P4) **Purity** 99%	5,002.9 µg/mL	+/- 29.0860 µg/mL +/- 124.6575 µg/mL +/- 156.7644 µg/mL	Gravimetric Unstressed Stressed
3	Nitrobenzene-d5 **CAS #** 4165-60-0 (Lot PR-20474) **Purity** 99%	5,001.4 µg/mL	+/- 29.0773 µg/mL +/- 124.6201 µg/mL +/- 156.7174 µg/mL	Gravimetric Unstressed Stressed
4	2-Fluorobiphenyl **CAS #** 321-60-8 (Lot E11Y047) **Purity** 99%	5,004.4 µg/mL	+/- 29.0947 µg/mL +/- 124.6949 µg/mL +/- 156.8114 µg/mL	Gravimetric Unstressed Stressed
5	2,4,6-Tribromophenol **CAS #** 118-79-6 (Lot 29699MJV) **Purity** 99%	5,003.9 µg/mL	+/- 29.0914 µg/mL +/- 124.6805 µg/mL +/- 156.7934 µg/mL	Gravimetric Unstressed Stressed
6	p-Terphenyl-d14 **CAS #** 1718-51-0 (Lot PR-20577) **Purity** 99%	5,007.1 µg/mL	+/- 29.1100 µg/mL +/- 124.7604 µg/mL +/- 156.8938 µg/mL	Gravimetric Unstressed Stressed

7850-1
4247-4671-32

124318

Reagent

SVLVSURRSPK_00014

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 567685 **Lot No.:** A0103615

Description : 8270 Surrogate Standard

8270 Surrogate Standard 5,000 ug/ml, Methylene Chloride, 5 ml/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : May 31, 2019 **Storage:** 10°C or colder

Handling: Sonicate prior to use.

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	2-Fluorophenol **CAS #** 367-12-4 (Lot STBC5591V) **Purity** 99%	5,003.5 µg/mL	+/- 29.0892 µg/mL +/- 124.6713 µg/mL +/- 156.7818 µg/mL	Gravimetric Unstressed Stressed
2	Phenol-d5 **CAS #** 4165-62-2 (Lot M387P4) **Purity** 99%	5,002.9 µg/mL	+/- 29.0860 µg/mL +/- 124.6575 µg/mL +/- 156.7644 µg/mL	Gravimetric Unstressed Stressed
3	Nitrobenzene-d5 **CAS #** 4165-60-0 (Lot PR-20474) **Purity** 99%	5,001.4 µg/mL	+/- 29.0773 µg/mL +/- 124.6201 µg/mL +/- 156.7174 µg/mL	Gravimetric Unstressed Stressed
4	2-Fluorobiphenyl **CAS #** 321-60-8 (Lot E11Y047) **Purity** 99%	5,004.4 µg/mL	+/- 29.0947 µg/mL +/- 124.6949 µg/mL +/- 156.8114 µg/mL	Gravimetric Unstressed Stressed
5	2,4,6-Tribromophenol **CAS #** 118-79-6 (Lot 29699MJV) **Purity** 99%	5,003.9 µg/mL	+/- 29.0914 µg/mL +/- 124.6805 µg/mL +/- 156.7934 µg/mL	Gravimetric Unstressed Stressed
6	p-Terphenyl-d14 **CAS #** 1718-51-0 (Lot PR-20577) **Purity** 99%	5,007.1 µg/mL	+/- 29.1100 µg/mL +/- 124.7604 µg/mL +/- 156.8938 µg/mL	Gravimetric Unstressed Stressed

Reagent

svmethylmetha_00011

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Analytical Reference Material ARM

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Scopes: http://AbsoluteStandards.com

CERTIFIED WEIGHT REPORT

Part Number: 70443
Lot Number: 021315
Description: Methyl methane sulfonate

Solvent(s): Methylene chloride **Lot#** 72062

Expiration Date: 021320
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 1000

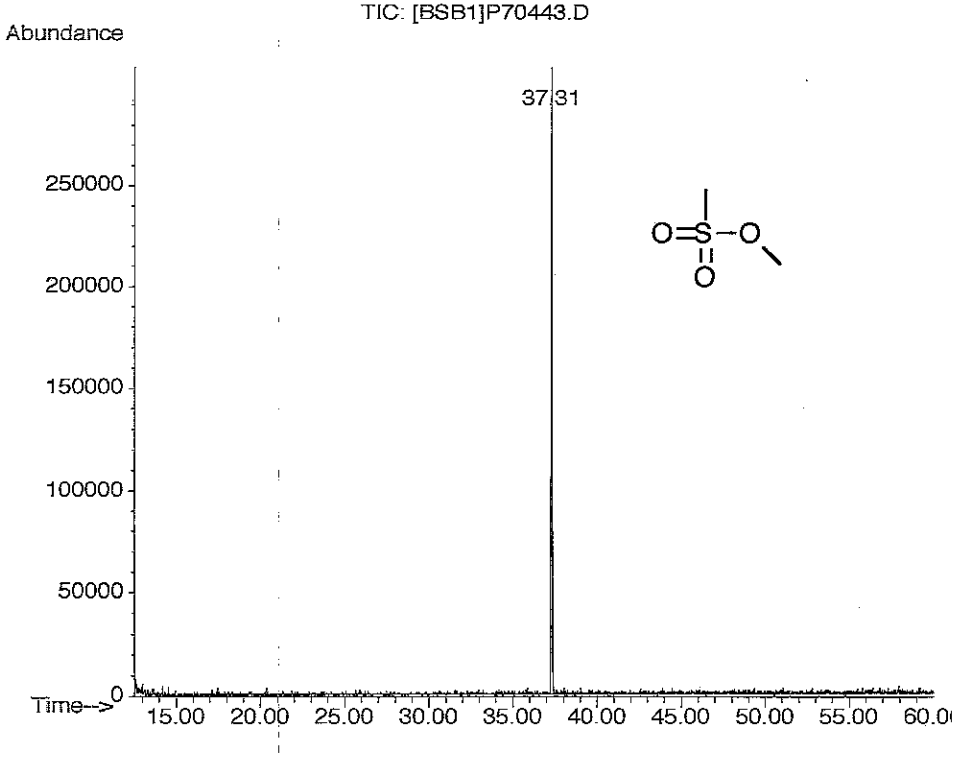
Weight(s) shown below were combined and diluted to: 25.0 5E-05 Balance Uncertainty 0.001 Flask Uncertainty

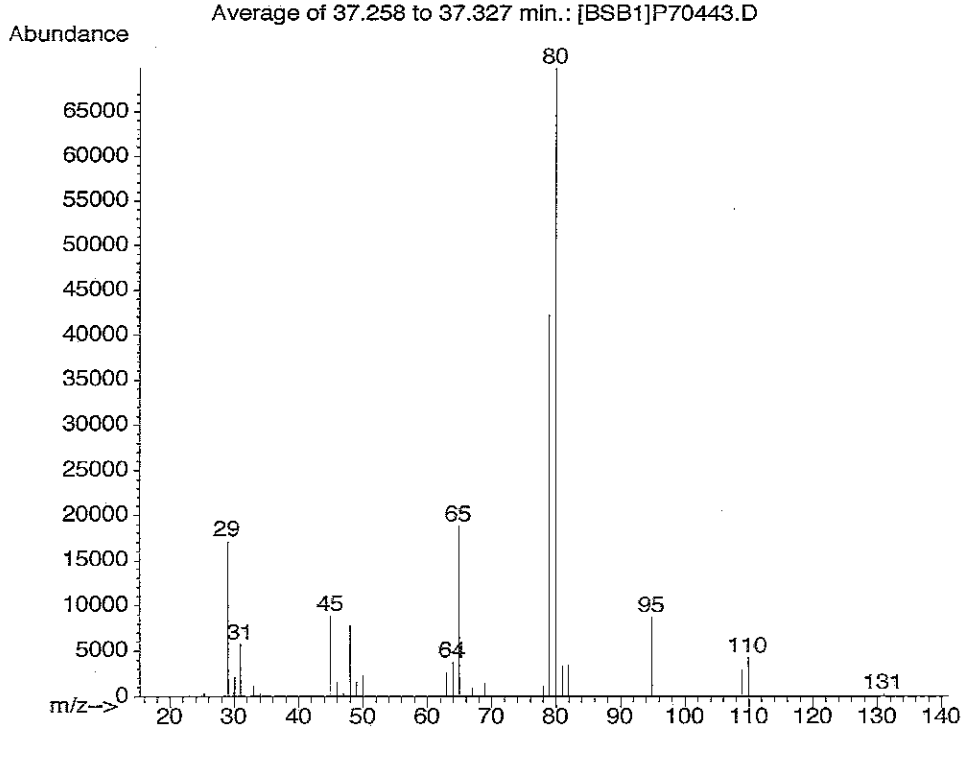
Paul Barron	021315
Formulated By: Paul Barron	DATE
Pedro Rentas	021315
Reviewed By: Pedro L. Rentas	DATE

MSDS Information
(Solvent Safety Info. On Attached pg.)

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc(µg/mL)	Expanded Uncertainty	CAS#	OSHA PEL (TWA)	LD50
1. Methyl methane sulfonate	443	07322PW	1000	99	0.2	0.02524	0.02530	1002.2	0.00565	00066-27-3	N/A	orl-rat 225mg/kg

Method GC6MSD-1: Column: Vocol (60m X 0.25mm ID X 1.5µm film thickness). Temp. 1=35°C (10min.), Temp. 2=200°C (8.75 min.), Rate=4°C/min., Injector Temp.=200°C, Detector Temp.=220°C. Analysis performed by Pedro Rentas.





Reagent

SVNNITROPYROs_00015

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Certified Reference Material CRM

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CERTIFIED WEIGHT REPORT

Part Number: 70451
Lot Number: 060514
Description: N-Nitrosopyrrolidine

Expiration Date: 060517
Recommended Storage: Freezer (0 °C)
Nominal Concentration (µg/mL): 1000

Solvent(s): Lot # 62418 Methylene chloride

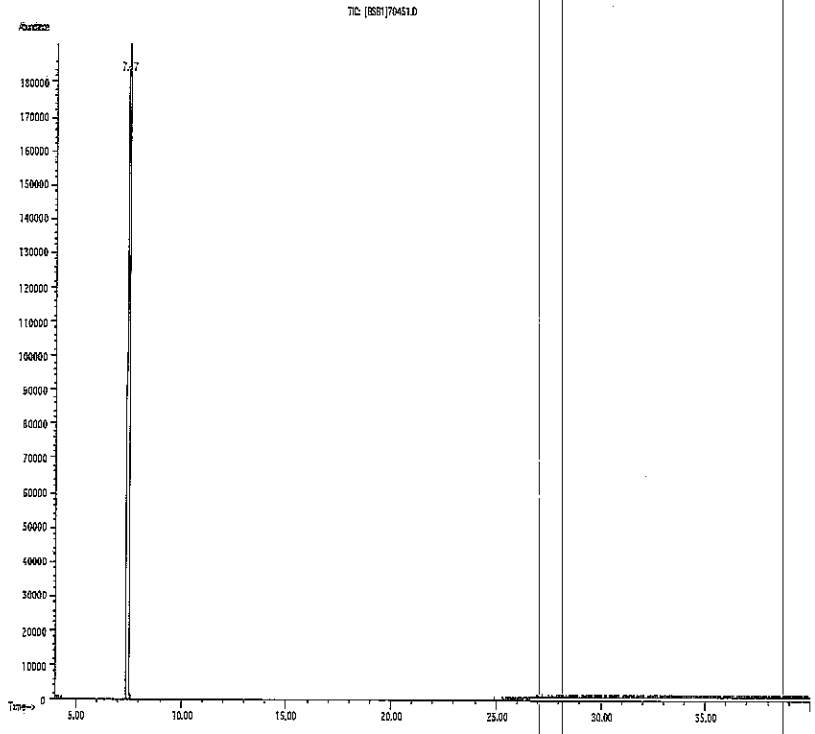
Formulated By: Paul Barron 060514 DATE

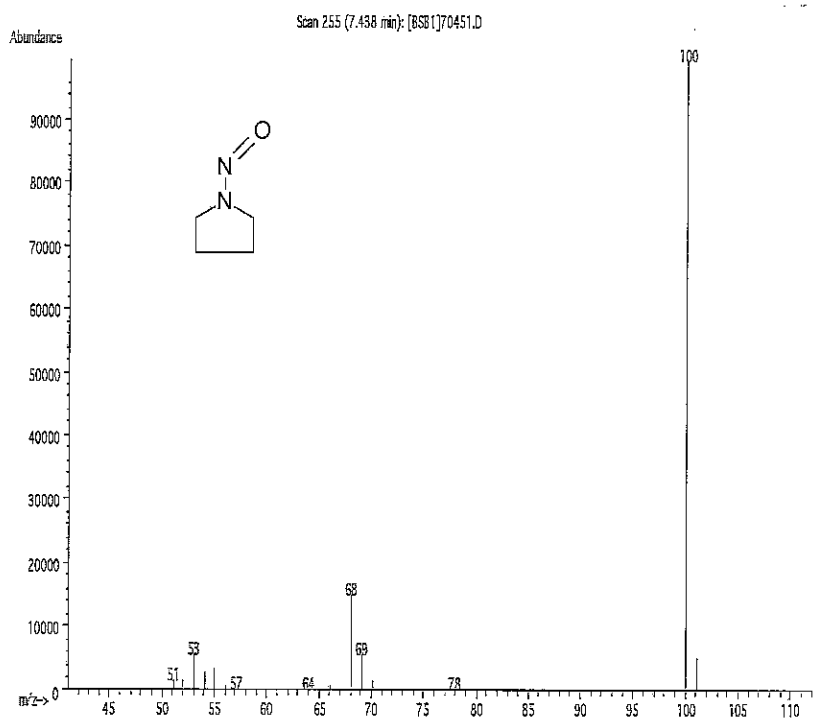
Reviewed By: Pedro L. Rentas 060514 DATE

Weight(s) shown below were combined and diluted to: 25.0 5E-05 Balance Uncertainty 0.001 Flask Uncertainty

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc(µg/mL)	Expanded Uncertainty	MSDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. N-Nitrosopyrrolidine	451	04025BM	1000	99	0.2	0.02524	0.02530	1002.2	0.00565	00930-55-2	N/A	orl-rat 900mg/kg

Method GC8MSD-3.M: Column:SPB-5 (30m X 0.25mm ID X 0.25µm film thickness) Temp 1 = 50°C (1min.), Temp 2 = 300°C (9min.), Rate = 10°C/min., Injector B= 200°C, Detector B = 275°C, Split Ratio = 100:1, Scan Rate = 2. Analysis performed by: Candice Warren.





Reagent

VOA8260GAS1ST_00110

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 569722 **Lot No.:** A0110070

Description : 8260 List 1 / Std #3 Gases (2015)

8260 List 1 / Std #3 Gases (2015) 2,500 ug/ml, P&T Methanol, 1 ml/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2018 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Dichlorodifluoromethane (CFC-12) **CAS #** 75-71-8 (Lot Q167-08) **Purity** 99%	2,499.9 µg/mL	+/- 17.9502 µg/mL +/- 30.0934 µg/mL +/- 34.1055 µg/mL	Gravimetric Unstressed Stressed
2	Chloromethane (methyl chloride) **CAS #** 74-87-3 (Lot SHBC8470V) **Purity** 99%	2,500.1 µg/mL	+/- 17.2963 µg/mL +/- 29.7101 µg/mL +/- 33.7686 µg/mL	Gravimetric Unstressed Stressed
3	Vinyl chloride **CAS #** 75-01-4 (Lot 17542) **Purity** 99%	2,500.2 µg/mL	+/- 16.5642 µg/mL +/- 29.2906 µg/mL +/- 33.4004 µg/mL	Gravimetric Unstressed Stressed
4	1,3-Butadiene **CAS #** 106-99-0 (Lot SHBF3387V) **Purity** 99%	2,500.0 µg/mL	+/- 17.0072 µg/mL +/- 29.5416 µg/mL +/- 33.6200 µg/mL	Gravimetric Unstressed Stressed
5	Bromomethane (methyl bromide) **CAS #** 74-83-9 (Lot 101604) **Purity** 99%	2,499.8 µg/mL	+/- 18.9451 µg/mL +/- 30.6969 µg/mL +/- 34.6391 µg/mL	Gravimetric Unstressed Stressed
6	Chloroethane (ethyl chloride) **CAS #** 75-00-3 (Lot SHBD1717V) **Purity** 99%	2,500.3 µg/mL	+/- 17.6395 µg/mL +/- 29.9122 µg/mL +/- 33.9470 µg/mL	Gravimetric Unstressed Stressed
7	Dichlorofluoromethane (CFC-21) **CAS #** 75-43-4 (Lot Q9B-58) **Purity** 99%	2,500.2 µg/mL	+/- 16.7318 µg/mL +/- 29.3854 µg/mL +/- 33.4835 µg/mL	Gravimetric Unstressed Stressed

8	Trichlorofluoromethane (CFC-11)		2,500.3	µg/mL	+/-	16.5866	µg/mL	Gravimetric
	CAS # 75-69-4	(Lot SHBD5121V)			+/-	29.3037	µg/mL	Unstressed
	Purity 99%				+/-	33.4120	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:
60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

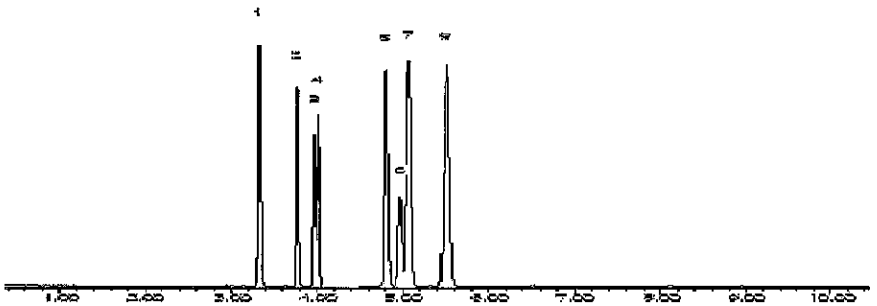
Carrier Gas:
helium-constant flow 2.0 mL/min.

Temp. Program:
40°C (hold 6 min.) to 100°C
@ 6°C/min.

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

F. Joseph Tallon - Mix Technician

Date Mixed: 02-Apr-2015 **Balance:** B251644995

Tyler Brown - QA Analyst

Date Passed: 08-Apr-2015

Manufactured under Restek's ISO 9001:2008 Registered Quality System Certificate #FM 80397

Reagent

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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Catalog No. : 569722 **Lot No.:** A0110070

Description : 8260 List 1 / Std #3 Gases (2015)

8260 List 1 / Std #3 Gases (2015) 2,500 ug/ml, P&T Methanol, 1 ml/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2018 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Dichlorodifluoromethane (CFC-12) **CAS #** 75-71-8 (Lot Q167-08) **Purity** 99%	2,499.9 µg/mL	+/- 17.9502 µg/mL +/- 30.0934 µg/mL +/- 34.1055 µg/mL	Gravimetric Unstressed Stressed
2	Chloromethane (methyl chloride) **CAS #** 74-87-3 (Lot SHBC8470V) **Purity** 99%	2,500.1 µg/mL	+/- 17.2963 µg/mL +/- 29.7101 µg/mL +/- 33.7686 µg/mL	Gravimetric Unstressed Stressed
3	Vinyl chloride **CAS #** 75-01-4 (Lot 17542) **Purity** 99%	2,500.2 µg/mL	+/- 16.5642 µg/mL +/- 29.2906 µg/mL +/- 33.4004 µg/mL	Gravimetric Unstressed Stressed
4	1,3-Butadiene **CAS #** 106-99-0 (Lot SHBF3387V) **Purity** 99%	2,500.0 µg/mL	+/- 17.0072 µg/mL +/- 29.5416 µg/mL +/- 33.6200 µg/mL	Gravimetric Unstressed Stressed
5	Bromomethane (methyl bromide) **CAS #** 74-83-9 (Lot 101604) **Purity** 99%	2,499.8 µg/mL	+/- 18.9451 µg/mL +/- 30.6969 µg/mL +/- 34.6391 µg/mL	Gravimetric Unstressed Stressed
6	Chloroethane (ethyl chloride) **CAS #** 75-00-3 (Lot SHBD1717V) **Purity** 99%	2,500.3 µg/mL	+/- 17.6395 µg/mL +/- 29.9122 µg/mL +/- 33.9470 µg/mL	Gravimetric Unstressed Stressed
7	Dichlorofluoromethane (CFC-21) **CAS #** 75-43-4 (Lot Q9B-58) **Purity** 99%	2,500.2 µg/mL	+/- 16.7318 µg/mL +/- 29.3854 µg/mL +/- 33.4835 µg/mL	Gravimetric Unstressed Stressed

8	Trichlorofluoromethane (CFC-11)		2,500.3	µg/mL	+/-	16.5866	µg/mL	Gravimetric
	CAS # 75-69-4	(Lot SHBD5121V)			+/-	29.3037	µg/mL	Unstressed
	Purity 99%				+/-	33.4120	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:
60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

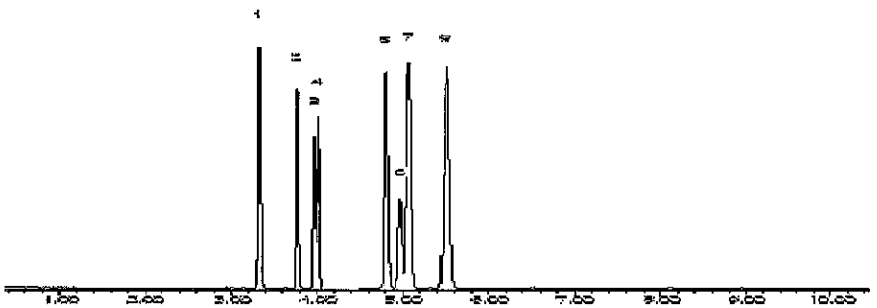
Carrier Gas:
helium-constant flow 2.0 mL/min.

Temp. Program:
40°C (hold 6 min.) to 100°C
@ 6°C/min.

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

F. Joseph Tallon - Mix Technician

Date Mixed: 02-Apr-2015 **Balance:** B251644995

Tyler Brown - QA Analyst

Date Passed: 08-Apr-2015

Manufactured under Restek's ISO 9001:2008 Registered Quality System Certificate #FM 80397

Reagent

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Catalog No. : 569722 **Lot No.:** A0110070

Description : 8260 List 1 / Std #3 Gases (2015)

8260 List 1 / Std #3 Gases (2015) 2,500 ug/ml, P&T Methanol, 1 ml/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2018 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Dichlorodifluoromethane (CFC-12) **CAS #** 75-71-8 (Lot Q167-08) **Purity** 99%	2,499.9 µg/mL	+/- 17.9502 µg/mL +/- 30.0934 µg/mL +/- 34.1055 µg/mL	Gravimetric Unstressed Stressed
2	Chloromethane (methyl chloride) **CAS #** 74-87-3 (Lot SHBC8470V) **Purity** 99%	2,500.1 µg/mL	+/- 17.2963 µg/mL +/- 29.7101 µg/mL +/- 33.7686 µg/mL	Gravimetric Unstressed Stressed
3	Vinyl chloride **CAS #** 75-01-4 (Lot 17542) **Purity** 99%	2,500.2 µg/mL	+/- 16.5642 µg/mL +/- 29.2906 µg/mL +/- 33.4004 µg/mL	Gravimetric Unstressed Stressed
4	1,3-Butadiene **CAS #** 106-99-0 (Lot SHBF3387V) **Purity** 99%	2,500.0 µg/mL	+/- 17.0072 µg/mL +/- 29.5416 µg/mL +/- 33.6200 µg/mL	Gravimetric Unstressed Stressed
5	Bromomethane (methyl bromide) **CAS #** 74-83-9 (Lot 101604) **Purity** 99%	2,499.8 µg/mL	+/- 18.9451 µg/mL +/- 30.6969 µg/mL +/- 34.6391 µg/mL	Gravimetric Unstressed Stressed
6	Chloroethane (ethyl chloride) **CAS #** 75-00-3 (Lot SHBD1717V) **Purity** 99%	2,500.3 µg/mL	+/- 17.6395 µg/mL +/- 29.9122 µg/mL +/- 33.9470 µg/mL	Gravimetric Unstressed Stressed
7	Dichlorofluoromethane (CFC-21) **CAS #** 75-43-4 (Lot Q9B-58) **Purity** 99%	2,500.2 µg/mL	+/- 16.7318 µg/mL +/- 29.3854 µg/mL +/- 33.4835 µg/mL	Gravimetric Unstressed Stressed

8	Trichlorofluoromethane (CFC-11)		2,500.3	µg/mL	+/-	16.5866	µg/mL	Gravimetric
	CAS # 75-69-4	(Lot SHBD5121V)			+/-	29.3037	µg/mL	Unstressed
	Purity 99%				+/-	33.4120	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:
60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

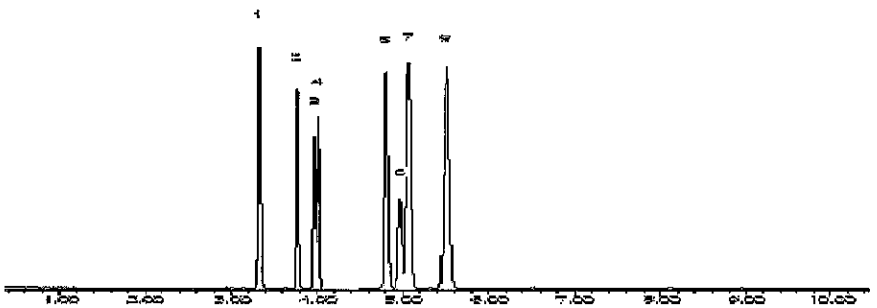
Carrier Gas:
helium-constant flow 2.0 mL/min.

Temp. Program:
40°C (hold 6 min.) to 100°C
@ 6°C/min.

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

F. Joseph Tallon - Mix Technician

Date Mixed: 02-Apr-2015 **Balance:** B251644995

Tyler Brown - QA Analyst

Date Passed: 08-Apr-2015

Manufactured under Restek's ISO 9001:2008 Registered Quality System Certificate #FM 80397

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VOA8260GAS2ND_00115

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 569722.SEC **Lot No.:** A0111273

Description : 8260 List 1 / Std #3 Gases (2015)

8260 List 1 / Std #3 Gases (2015) 2,500 ug/ml, P&T Methanol, 1 ml/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : May 31, 2018 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L., K=2)		
1	Dichlorodifluoromethane (CFC-12) **CAS #** 75-71-8.SEC (Lot 21773) **Purity** 99%	2,497.6 µg/mL	+/- 24.0984 +/- 34.1039 +/- 37.6853	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
2	Chloromethane (methyl chloride) **CAS #** 74-87-3.SEC (Lot 18343) **Purity** 99%	2,503.8 µg/mL	+/- 21.5368 +/- 32.3897 +/- 36.1592	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
3	Vinyl chloride **CAS #** 75-01-4.SEC (Lot MKBK6872V) **Purity** 99%	2,492.0 µg/mL	+/- 23.1023 +/- 33.3685 +/- 37.0056	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
4	1,3-Butadiene **CAS #** 106-99-0.SEC (Lot 18349) **Purity** 99%	2,488.6 µg/mL	+/- 19.2643 +/- 30.8102 +/- 34.7063	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
5	Bromomethane (methyl bromide) **CAS #** 74-83-9.SEC (Lot Q119-46) **Purity** 99%	2,491.9 µg/mL	+/- 20.7776 +/- 31.8022 +/- 35.5993	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
6	Chloroethane (ethyl chloride) **CAS #** 75-00-3.SEC (Lot 00004202) **Purity** 99%	2,516.0 µg/mL	+/- 19.4764 +/- 31.1495 +/- 35.0885	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
7	Dichlorofluoromethane (CFC-21) **CAS #** 75-43-4.SEC (Lot SHBC0858V) **Purity** 99%	2,503.3 µg/mL	+/- 18.8823 +/- 30.6846 +/- 34.6386	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

Reagent

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 567649 **Lot No.:** A093504

Description : 8260 Internal Standard

8260 Internal Standard 250-5,000 ug/ml, P&T Methanol, 5 ml/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : February 2018 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	tert-Butyl-d9-alcohol	5,000.0 µg/mL	+/- 29.0689	µg/mL	Gravimetric
	CAS # 25725-11-5		+/- 110.6323	µg/mL	Unstressed
	Purity 99%		+/- 111.0833	µg/mL	Stressed
2	Fluorobenzene	250.0 µg/mL	+/- 1.4535	µg/mL	Gravimetric
	CAS # 462-06-6		+/- 5.5316	µg/mL	Unstressed
	Purity 99%		+/- 5.5542	µg/mL	Stressed
3	1,4-Dioxane-d8	5,000.0 µg/mL	+/- 29.0689	µg/mL	Gravimetric
	CAS # 17647-74-4		+/- 110.6323	µg/mL	Unstressed
	Purity 99%		+/- 111.0833	µg/mL	Stressed
4	Chlorobenzene-d5	250.0 µg/mL	+/- 1.4535	µg/mL	Gravimetric
	CAS # 3114-55-4		+/- 5.5316	µg/mL	Unstressed
	Purity 99%		+/- 5.5542	µg/mL	Stressed
5	1,4-Dichlorobenzene-d4	250.0 µg/mL	+/- 1.4535	µg/mL	Gravimetric
	CAS # 3855-82-1		+/- 5.5316	µg/mL	Unstressed
	Purity 99%		+/- 5.5542	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Reagent

VOA8260INTRES_00068

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 567649 **Lot No.:** A093504

Description : 8260 Internal Standard

8260 Internal Standard 250-5,000 ug/ml, P&T Methanol, 5 ml/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : February 2018 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	tert-Butyl-d9-alcohol	5,000.0 µg/mL	+/- 29.0689	µg/mL	Gravimetric
	CAS # 25725-11-5		+/- 110.6323	µg/mL	Unstressed
	Purity 99%		+/- 111.0833	µg/mL	Stressed
2	Fluorobenzene	250.0 µg/mL	+/- 1.4535	µg/mL	Gravimetric
	CAS # 462-06-6		+/- 5.5316	µg/mL	Unstressed
	Purity 99%		+/- 5.5542	µg/mL	Stressed
3	1,4-Dioxane-d8	5,000.0 µg/mL	+/- 29.0689	µg/mL	Gravimetric
	CAS # 17647-74-4		+/- 110.6323	µg/mL	Unstressed
	Purity 99%		+/- 111.0833	µg/mL	Stressed
4	Chlorobenzene-d5	250.0 µg/mL	+/- 1.4535	µg/mL	Gravimetric
	CAS # 3114-55-4		+/- 5.5316	µg/mL	Unstressed
	Purity 99%		+/- 5.5542	µg/mL	Stressed
5	1,4-Dichlorobenzene-d4	250.0 µg/mL	+/- 1.4535	µg/mL	Gravimetric
	CAS # 3855-82-1		+/- 5.5316	µg/mL	Unstressed
	Purity 99%		+/- 5.5542	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Reagent

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 567649 **Lot No.:** A0104742

Description : 8260 Internal Standard

8260 Internal Standard 250-5,000 ug/ml, P&T Methanol, 5 ml/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : July 31, 2019 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	tert-Butyl-d9-alcohol **CAS #** 25725-11-5 (Lot I201P5) **Purity** 99%	5,003.0 µg/mL	+/- 29.0879 µg/mL +/- 106.1005 µg/mL +/- 106.5713 µg/mL	Gravimetric Unstressed Stressed
2	Fluorobenzene **CAS #** 462-06-6 (Lot 1380033) **Purity** 99%	250.8 µg/mL	+/- 1.4795 µg/mL +/- 5.3247 µg/mL +/- 5.3483 µg/mL	Gravimetric Unstressed Stressed
3	1,4-Dioxane-d8 **CAS #** 17647-74-4 (Lot 11C-596) **Purity** 99%	5,009.6 µg/mL	+/- 29.1262 µg/mL +/- 106.2405 µg/mL +/- 106.7119 µg/mL	Gravimetric Unstressed Stressed
4	Chlorobenzene-d5 **CAS #** 3114-55-4 (Lot PR-22736) **Purity** 99%	250.8 µg/mL	+/- 1.4795 µg/mL +/- 5.3247 µg/mL +/- 5.3483 µg/mL	Gravimetric Unstressed Stressed
5	1,4-Dichlorobenzene-d4 **CAS #** 3855-82-1 (Lot PR-18488) **Purity** 99%	250.8 µg/mL	+/- 1.4795 µg/mL +/- 5.3247 µg/mL +/- 5.3483 µg/mL	Gravimetric Unstressed Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Reagent

VOA8260KET1ST_00046

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 569721 **Lot No.:** A0110400

Description : 8260 List 1/ Std #2 Ketones (2015)

8260 List 1/ Std #2 Ketones (2015) 12,500 µg/ml, P&T Methanol/Water (90:10), 1 ml/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2018 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Acetone **CAS #** 67-64-1 (Lot 07196AK) **Purity** 99%	12,506.8 µg/mL	+/- 73.2301 µg/mL +/- 665.6407 µg/mL +/- 666.3747 µg/mL	Gravimetric Unstressed Stressed
2	2-Butanone (MEK) **CAS #** 78-93-3 (Lot BCBH7802V) **Purity** 99%	12,504.8 µg/mL	+/- 73.2184 µg/mL +/- 665.5343 µg/mL +/- 666.2681 µg/mL	Gravimetric Unstressed Stressed
3	4-Methyl-2-pentanone (MIBK) **CAS #** 108-10-1 (Lot SHBF5332V) **Purity** 99%	12,509.2 µg/mL	+/- 73.2441 µg/mL +/- 665.7684 µg/mL +/- 666.5025 µg/mL	Gravimetric Unstressed Stressed
4	2-Hexanone **CAS #** 591-78-6 (Lot MKBN7380V) **Purity** 99%	12,501.6 µg/mL	+/- 73.1996 µg/mL +/- 665.3640 µg/mL +/- 666.0976 µg/mL	Gravimetric Unstressed Stressed

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Reagent

VOA8260KET1ST_00047

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 569721 **Lot No.:** A0110400

Description : 8260 List 1/ Std #2 Ketones (2015)

8260 List 1/ Std #2 Ketones (2015) 12,500 µg/ml, P&T Methanol/Water (90:10), 1 ml/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2018 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Acetone **CAS #** 67-64-1 (Lot 07196AK) **Purity** 99%	12,506.8 µg/mL	+/- 73.2301 µg/mL +/- 665.6407 µg/mL +/- 666.3747 µg/mL	Gravimetric Unstressed Stressed
2	2-Butanone (MEK) **CAS #** 78-93-3 (Lot BCBH7802V) **Purity** 99%	12,504.8 µg/mL	+/- 73.2184 µg/mL +/- 665.5343 µg/mL +/- 666.2681 µg/mL	Gravimetric Unstressed Stressed
3	4-Methyl-2-pentanone (MIBK) **CAS #** 108-10-1 (Lot SHBF5332V) **Purity** 99%	12,509.2 µg/mL	+/- 73.2441 µg/mL +/- 665.7684 µg/mL +/- 666.5025 µg/mL	Gravimetric Unstressed Stressed
4	2-Hexanone **CAS #** 591-78-6 (Lot MKBN7380V) **Purity** 99%	12,501.6 µg/mL	+/- 73.1996 µg/mL +/- 665.3640 µg/mL +/- 666.0976 µg/mL	Gravimetric Unstressed Stressed

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Reagent

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 569721 **Lot No.:** A0110400

Description : 8260 List 1/ Std #2 Ketones (2015)

8260 List 1/ Std #2 Ketones (2015) 12,500 µg/ml, P&T Methanol/Water (90:10), 1 ml/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2018 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Acetone **CAS #** 67-64-1 (Lot 07196AK) **Purity** 99%	12,506.8 µg/mL	+/- 73.2301 µg/mL +/- 665.6407 µg/mL +/- 666.3747 µg/mL	Gravimetric Unstressed Stressed
2	2-Butanone (MEK) **CAS #** 78-93-3 (Lot BCBH7802V) **Purity** 99%	12,504.8 µg/mL	+/- 73.2184 µg/mL +/- 665.5343 µg/mL +/- 666.2681 µg/mL	Gravimetric Unstressed Stressed
3	4-Methyl-2-pentanone (MIBK) **CAS #** 108-10-1 (Lot SHBF5332V) **Purity** 99%	12,509.2 µg/mL	+/- 73.2441 µg/mL +/- 665.7684 µg/mL +/- 666.5025 µg/mL	Gravimetric Unstressed Stressed
4	2-Hexanone **CAS #** 591-78-6 (Lot MKBN7380V) **Purity** 99%	12,501.6 µg/mL	+/- 73.1996 µg/mL +/- 665.3640 µg/mL +/- 666.0976 µg/mL	Gravimetric Unstressed Stressed

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Reagent

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Catalog No. : 569721 **Lot No.:** A0110400

Description : 8260 List 1/ Std #2 Ketones (2015)

8260 List 1/ Std #2 Ketones (2015) 12,500 µg/ml, P&T Methanol/Water (90:10), 1 ml/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2018 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Acetone **CAS #** 67-64-1 (Lot 07196AK) **Purity** 99%	12,506.8 µg/mL	+/- 73.2301 µg/mL +/- 665.6407 µg/mL +/- 666.3747 µg/mL	Gravimetric Unstressed Stressed
2	2-Butanone (MEK) **CAS #** 78-93-3 (Lot BCBH7802V) **Purity** 99%	12,504.8 µg/mL	+/- 73.2184 µg/mL +/- 665.5343 µg/mL +/- 666.2681 µg/mL	Gravimetric Unstressed Stressed
3	4-Methyl-2-pentanone (MIBK) **CAS #** 108-10-1 (Lot SHBF5332V) **Purity** 99%	12,509.2 µg/mL	+/- 73.2441 µg/mL +/- 665.7684 µg/mL +/- 666.5025 µg/mL	Gravimetric Unstressed Stressed
4	2-Hexanone **CAS #** 591-78-6 (Lot MKBN7380V) **Purity** 99%	12,501.6 µg/mL	+/- 73.1996 µg/mL +/- 665.3640 µg/mL +/- 666.0976 µg/mL	Gravimetric Unstressed Stressed

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Reagent

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 569721 **Lot No.:** A0110400

Description : 8260 List 1/ Std #2 Ketones (2015)

8260 List 1/ Std #2 Ketones (2015) 12,500 µg/ml, P&T Methanol/Water (90:10), 1 ml/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2018 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Acetone **CAS #** 67-64-1 (Lot 07196AK) **Purity** 99%	12,506.8 µg/mL	+/- 73.2301 µg/mL +/- 665.6407 µg/mL +/- 666.3747 µg/mL	Gravimetric Unstressed Stressed
2	2-Butanone (MEK) **CAS #** 78-93-3 (Lot BCBH7802V) **Purity** 99%	12,504.8 µg/mL	+/- 73.2184 µg/mL +/- 665.5343 µg/mL +/- 666.2681 µg/mL	Gravimetric Unstressed Stressed
3	4-Methyl-2-pentanone (MIBK) **CAS #** 108-10-1 (Lot SHBF5332V) **Purity** 99%	12,509.2 µg/mL	+/- 73.2441 µg/mL +/- 665.7684 µg/mL +/- 666.5025 µg/mL	Gravimetric Unstressed Stressed
4	2-Hexanone **CAS #** 591-78-6 (Lot MKBN7380V) **Purity** 99%	12,501.6 µg/mL	+/- 73.1996 µg/mL +/- 665.3640 µg/mL +/- 666.0976 µg/mL	Gravimetric Unstressed Stressed

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Reagent

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 569721.sec **Lot No.:** A0110970

Description : 8260 List 1/ Std #2 Ketones (2015)

8260 List 1/ Std #2 Ketones (2015) 12,500 µg/ml, P&T Methanol/Water (90:10), 1 ml/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : May 31, 2018 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)		Expanded Uncertainty (95% C.L., K=2)		
1	Acetone **CAS #** 67-64-1.SEC **Purity** 99%	(Lot P14A572)	12,528.0	µg/mL	+/- 73.3542 +/- 666.7690 +/- 667.5042	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
2	2-Butanone (MEK) **CAS #** 78-93-3.SEC **Purity** 99%	(Lot RA58J)	12,530.0	µg/mL	+/- 73.3659 +/- 666.8755 +/- 667.6108	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
3	4-Methyl-2-pentanone (MIBK) **CAS #** 108-10-1.SEC **Purity** 99%	(Lot E29T040)	12,585.0	µg/mL	+/- 73.6879 +/- 669.8027 +/- 670.5412	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
4	2-Hexanone **CAS #** 591-78-6.SEC **Purity** 99%	(Lot ZSVCD-FF)	12,516.0	µg/mL	+/- 73.2839 +/- 666.1304 +/- 666.8648	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Reagent

VOA8260MEGA1_00030

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO Guide 34 Accredited
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Certificate #3222.01

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ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 569720 **Lot No.:** A0108166

Description : 8260 List 1 / Std #1 MegaMix (2015)

8260 List 1 / Std #1 MegaMix (2015) 1250-62500 µg/ml, P&T Methanol, 1 ml/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : January 31, 2017 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Diethyl ether (ethyl ether) **CAS #** 60-29-7 (Lot SHBF3466V) **Purity** 99%	2,521.3 µg/mL	+/- 14.6588 µg/mL +/- 134.1754 µg/mL +/- 134.3233 µg/mL	Gravimetric Unstressed Stressed
2	1,1,2-Trichlorotrifluoroethane (CFC-113) **CAS #** 76-13-1 (Lot 00001135) **Purity** 99%	2,522.5 µg/mL	+/- 14.6660 µg/mL +/- 134.2419 µg/mL +/- 134.3899 µg/mL	Gravimetric Unstressed Stressed
3	1,1-Dichloroethane **CAS #** 75-34-3 (Lot Q179-33) **Purity** 98%	2,499.5 µg/mL	+/- 14.5323 µg/mL +/- 133.0173 µg/mL +/- 133.1640 µg/mL	Gravimetric Unstressed Stressed
4	tert-Butanol (TBA) **CAS #** 75-65-0 (Lot SHBC6893V) **Purity** 99%	25,002.4 µg/mL	+/- 145.3584 µg/mL +/- 1,330.5704 µg/mL +/- 1,332.0378 µg/mL	Gravimetric Unstressed Stressed
5	Iodomethane (methyl iodide) **CAS #** 74-88-4 (Lot SHBC7288V) **Purity** 99%	2,510.0 µg/mL	+/- 14.5934 µg/mL +/- 133.5767 µg/mL +/- 133.7240 µg/mL	Gravimetric Unstressed Stressed
6	Methyl acetate **CAS #** 79-20-9 (Lot SHBD7134V) **Purity** 98%	12,505.4 µg/mL	+/- 72.7037 µg/mL +/- 665.5101 µg/mL +/- 666.2440 µg/mL	Gravimetric Unstressed Stressed
7	Allyl chloride (3-chloropropene) **CAS #** 107-05-1 (Lot MKBG5777V) **Purity** 99%	2,500.0 µg/mL	+/- 19.2743 µg/mL +/- 133.6453 µg/mL +/- 133.7914 µg/mL	Gravimetric Unstressed Stressed

8	Methylene chloride (dichloromethane)		2,511.3	µg/mL	+/-	14.6006	µg/mL	Gravimetric
	CAS # 75-09-2	(Lot SHBD4974V)			+/-	133.6432	µg/mL	Unstressed
	Purity 99%				+/-	133.7906	µg/mL	Stressed
9	Carbon disulfide		2,511.7	µg/mL	+/-	14.6035	µg/mL	Gravimetric
	CAS # 75-15-0	(Lot C30Y997)			+/-	133.6693	µg/mL	Unstressed
	Purity 98%				+/-	133.8167	µg/mL	Stressed
10	Acrylonitrile		25,017.1	µg/mL	+/-	145.4441	µg/mL	Gravimetric
	CAS # 107-13-1	(Lot 10172706)			+/-	1,331.3554	µg/mL	Unstressed
	Purity 99%				+/-	1,332.8236	µg/mL	Stressed
11	cis-1,2-Dichloroethene		2,503.9	µg/mL	+/-	14.5577	µg/mL	Gravimetric
	CAS # 156-59-2	(Lot MKBG8424V)			+/-	133.2507	µg/mL	Unstressed
	Purity 99%				+/-	133.3977	µg/mL	Stressed
12	n-Hexane (C6)		2,511.9	µg/mL	+/-	14.6043	µg/mL	Gravimetric
	CAS # 110-54-3	(Lot SHBF0293V)			+/-	133.6764	µg/mL	Unstressed
	Purity 99%				+/-	133.8239	µg/mL	Stressed
13	1,1-dichloroethene		2,521.3	µg/mL	+/-	14.6588	µg/mL	Gravimetric
	CAS # 75-35-4	(Lot SHBD6170V)			+/-	134.1754	µg/mL	Unstressed
	Purity 99%				+/-	134.3233	µg/mL	Stressed
14	2,2-Dichloropropane		2,500.0	µg/mL	+/-	14.5351	µg/mL	Gravimetric
	CAS # 594-20-7	(Lot BCBH9246V)			+/-	133.0434	µg/mL	Unstressed
	Purity 98%				+/-	133.1901	µg/mL	Stressed
15	trans-1,2-Dichloroethene		2,505.0	µg/mL	+/-	14.5643	µg/mL	Gravimetric
	CAS # 156-60-5	(Lot MKBH9850V)			+/-	133.3106	µg/mL	Unstressed
	Purity 99%				+/-	133.4576	µg/mL	Stressed
16	Isobutanol (2-Methyl-1-propanol)		62,553.8	µg/mL	+/-	363.6739	µg/mL	Gravimetric
	CAS # 78-83-1	(Lot SHBF2852V)			+/-	3,328.9705	µg/mL	Unstressed
	Purity 99%				+/-	3,332.6417	µg/mL	Stressed
17	Methyl-tert-butyl ether (MTBE)		2,504.6	µg/mL	+/-	14.5621	µg/mL	Gravimetric
	CAS # 1634-04-4	(Lot SHBF1193V)			+/-	133.2906	µg/mL	Unstressed
	Purity 99%				+/-	133.4376	µg/mL	Stressed
18	Bromochloromethane		2,505.1	µg/mL	+/-	14.5650	µg/mL	Gravimetric
	CAS # 74-97-5	(Lot 00004559)			+/-	133.3172	µg/mL	Unstressed
	Purity 99%				+/-	133.4642	µg/mL	Stressed
19	Tetrahydrofuran		5,000.7	µg/mL	+/-	29.0746	µg/mL	Gravimetric
	CAS # 109-99-9	(Lot SHBF2660V)			+/-	266.1270	µg/mL	Unstressed
	Purity 97%				+/-	266.4204	µg/mL	Stressed
20	1,1,1-trichloroethane		2,508.1	µg/mL	+/-	14.5825	µg/mL	Gravimetric
	CAS # 71-55-6	(Lot B14Z1114)			+/-	133.4769	µg/mL	Unstressed
	Purity 99%				+/-	133.6241	µg/mL	Stressed
21	Cyclohexane		2,504.0	µg/mL	+/-	14.5585	µg/mL	Gravimetric
	CAS # 110-82-7	(Lot SHBD7873V)			+/-	133.2574	µg/mL	Unstressed
	Purity 99%				+/-	133.4043	µg/mL	Stressed
22	1,1-Dichloropropene		2,502.4	µg/mL	+/-	14.5493	µg/mL	Gravimetric
	CAS # 563-58-6	(Lot PR09161302)			+/-	133.1738	µg/mL	Unstressed
	Purity 98%				+/-	133.3207	µg/mL	Stressed
23	carbon tetrachloride		2,505.3	µg/mL	+/-	14.5657	µg/mL	Gravimetric
	CAS # 56-23-5	(Lot SHBC1410V)			+/-	133.3239	µg/mL	Unstressed
	Purity 99%				+/-	133.4709	µg/mL	Stressed

24	n-Heptane (C7) **CAS #** 142-82-5 **Purity** 99%	(Lot SHBF2321V)	2,501.4	µg/mL	+/- 14.5432 +/- 133.1177 +/- 133.2645	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
25	1,2-Dichloroethane **CAS #** 107-06-2 **Purity** 99%	(Lot SHBC6595V)	2,501.6	µg/mL	+/- 14.5447 +/- 133.1310 +/- 133.2778	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
26	Benzene **CAS #** 71-43-2 **Purity** 99%	(Lot SHBD4617V)	2,509.1	µg/mL	+/- 14.5883 +/- 133.5301 +/- 133.6774	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
27	Trichloroethene **CAS #** 79-01-6 **Purity** 99%	(Lot SHBF0943V)	2,504.8	µg/mL	+/- 14.5628 +/- 133.2973 +/- 133.4443	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
28	Methylcyclohexane **CAS #** 108-87-2 **Purity** 99%	(Lot 50996APV)	2,502.5	µg/mL	+/- 14.5498 +/- 133.1775 +/- 133.3244	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
29	1,2-Dichloropropane **CAS #** 78-87-5 **Purity** 99%	(Lot 01113D0V)	2,502.4	µg/mL	+/- 14.5490 +/- 133.1709 +/- 133.3177	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
30	bromodichloromethane **CAS #** 75-27-4 **Purity** 98%	(Lot MKBL1617V)	2,507.9	µg/mL	+/- 14.5814 +/- 133.4672 +/- 133.6144	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
31	1,4-Dioxane **CAS #** 123-91-1 **Purity** 99%	(Lot SHBF2002V)	50,001.4	µg/mL	+/- 290.6971 +/- 2,660.9612 +/- 2,663.8957	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
32	Dibromomethane **CAS #** 74-95-3 **Purity** 99%	(Lot 10169264)	2,508.1	µg/mL	+/- 14.5825 +/- 133.4769 +/- 133.6241	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
33	cis-1,3-Dichloropropene **CAS #** 10061-01-5 **Purity** 99%	(Lot 20936)	2,507.0	µg/mL	+/- 14.5759 +/- 133.4170 +/- 133.5641	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
34	Toluene **CAS #** 108-88-3 **Purity** 99%	(Lot SHBF2730V)	2,502.4	µg/mL	+/- 14.5490 +/- 133.1709 +/- 133.3177	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
35	Ethyl methacrylate **CAS #** 97-63-2 **Purity** 99%	(Lot 69796APV)	2,500.9	µg/mL	+/- 14.5403 +/- 133.0911 +/- 133.2378	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
36	trans-1,3-Dichloropropene **CAS #** 10061-02-6 **Purity** 99%	(Lot C363110)	2,502.1	µg/mL	+/- 14.5476 +/- 133.1576 +/- 133.3044	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
37	1,1,2-Trichloroethane **CAS #** 79-00-5 **Purity** 99%	(Lot FGB01)	2,507.5	µg/mL	+/- 14.5788 +/- 133.4436 +/- 133.5908	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
38	1,3-Dichloropropane **CAS #** 142-28-9 **Purity** 99%	(Lot BCBG2162V)	2,505.3	µg/mL	+/- 14.5657 +/- 133.3239 +/- 133.4709	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
39	Tetrachloroethene **CAS #** 127-18-4 **Purity** 99%	(Lot SHBD2073V)	2,506.5	µg/mL	+/- 14.5730 +/- 133.3904 +/- 133.5375	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

40	dibromochloromethane		2,503.2	µg/mL	+/-	14.5536	µg/mL	Gravimetric
	CAS # 124-48-1	(Lot MKBP0459V)			+/-	133.2129	µg/mL	Unstressed
	Purity 98%				+/-	133.3598	µg/mL	Stressed
41	1,2-Dibromoethane (EDB)		2,504.3	µg/mL	+/-	14.5599	µg/mL	Gravimetric
	CAS # 106-93-4	(Lot BCBH3877V)			+/-	133.2707	µg/mL	Unstressed
	Purity 99%				+/-	133.4176	µg/mL	Stressed
42	Chlorobenzene		2,510.8	µg/mL	+/-	14.5977	µg/mL	Gravimetric
	CAS # 108-90-7	(Lot SHBD3200V)			+/-	133.6166	µg/mL	Unstressed
	Purity 99%				+/-	133.7639	µg/mL	Stressed
43	1,1,2,2-Tetrachloroethane		2,502.9	µg/mL	+/-	14.5519	µg/mL	Gravimetric
	CAS # 79-34-5	(Lot CFA4D)			+/-	133.1975	µg/mL	Unstressed
	Purity 99%				+/-	133.3444	µg/mL	Stressed
44	Ethylbenzene		2,509.6	µg/mL	+/-	14.5912	µg/mL	Gravimetric
	CAS # 100-41-4	(Lot SHBC9001V)			+/-	133.5567	µg/mL	Unstressed
	Purity 99%				+/-	133.7040	µg/mL	Stressed
45	m-Xylene		1,252.6	µg/mL	+/-	7.2829	µg/mL	Gravimetric
	CAS # 108-38-3	(Lot SHBF1720V)			+/-	66.6619	µg/mL	Unstressed
	Purity 99%				+/-	66.7355	µg/mL	Stressed
46	o-Xylene		2,503.7	µg/mL	+/-	14.5565	µg/mL	Gravimetric
	CAS # 95-47-6	(Lot SHBC8668V)			+/-	133.2390	µg/mL	Unstressed
	Purity 98%				+/-	133.3859	µg/mL	Stressed
47	p-Xylene		1,253.3	µg/mL	+/-	7.2865	µg/mL	Gravimetric
	CAS # 106-42-3	(Lot SHBF3427V)			+/-	66.6952	µg/mL	Unstressed
	Purity 99%				+/-	66.7688	µg/mL	Stressed
48	Styrene		2,503.5	µg/mL	+/-	14.5556	µg/mL	Gravimetric
	CAS # 100-42-5	(Lot 10182421)			+/-	133.2307	µg/mL	Unstressed
	Purity 99%				+/-	133.3777	µg/mL	Stressed
49	Isopropylbenzene (cumene)		2,502.5	µg/mL	+/-	14.5498	µg/mL	Gravimetric
	CAS # 98-82-8	(Lot 10169400)			+/-	133.1775	µg/mL	Unstressed
	Purity 99%				+/-	133.3244	µg/mL	Stressed
50	bromoform		2,507.8	µg/mL	+/-	14.5803	µg/mL	Gravimetric
	CAS # 75-25-2	(Lot SHBC3410V)			+/-	133.4569	µg/mL	Unstressed
	Purity 99%				+/-	133.6041	µg/mL	Stressed
51	1,1,1,2-Tetrachloroethane		2,510.3	µg/mL	+/-	14.5948	µg/mL	Gravimetric
	CAS # 630-20-6	(Lot MKBS3769V)			+/-	133.5900	µg/mL	Unstressed
	Purity 99%				+/-	133.7373	µg/mL	Stressed
52	chloroform		2,501.3	µg/mL	+/-	14.5425	µg/mL	Gravimetric
	CAS # 67-66-3	(Lot SHBB7498V)			+/-	133.1110	µg/mL	Unstressed
	Purity 99%				+/-	133.2578	µg/mL	Stressed
53	1,2,3-Trichloropropane		2,502.5	µg/mL	+/-	14.5498	µg/mL	Gravimetric
	CAS # 96-18-4	(Lot 1428739V)			+/-	133.1775	µg/mL	Unstressed
	Purity 99%				+/-	133.3244	µg/mL	Stressed
54	trans-1,4-dichloro-2-butene		2,499.5	µg/mL	+/-	14.5322	µg/mL	Gravimetric
	CAS # 110-57-6	(Lot MKBP5371V)			+/-	133.0168	µg/mL	Unstressed
	Purity 96%				+/-	133.1635	µg/mL	Stressed
55	n-Propylbenzene		2,500.3	µg/mL	+/-	14.5367	µg/mL	Gravimetric
	CAS # 103-65-1	(Lot MKBQ8049V)			+/-	133.0578	µg/mL	Unstressed
	Purity 99%				+/-	133.2045	µg/mL	Stressed

56	Bromobenzene **CAS #** 108-86-1 **Purity** 99%	(Lot MKBD4032V)	2,501.1	µg/mL	+/- 14.5418 +/- 133.1044 +/- 133.2511	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
57	1,2,4-Trimethylbenzene **CAS #** 95-63-6 **Purity** 98%	(Lot MKBJ1732V)	2,501.6	µg/mL	+/- 14.5444 +/- 133.1282 +/- 133.2750	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
58	2-Chlorotoluene **CAS #** 95-49-8 **Purity** 99%	(Lot MKBH8892V)	2,500.3	µg/mL	+/- 14.5367 +/- 133.0578 +/- 133.2045	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
59	4-Chlorotoluene **CAS #** 106-43-4 **Purity** 99%	(Lot MKBB7205V)	2,506.4	µg/mL	+/- 14.5723 +/- 133.3837 +/- 133.5308	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
60	tert-Butylbenzene **CAS #** 98-06-6 **Purity** 99%	(Lot S52237V)	2,500.1	µg/mL	+/- 14.5359 +/- 133.0511 +/- 133.1979	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
61	1,3,5-Trimethylbenzene **CAS #** 108-67-8 **Purity** 99%	(Lot BCBJ3305V)	2,503.1	µg/mL	+/- 14.5534 +/- 133.2108 +/- 133.3577	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
62	sec-Butylbenzene **CAS #** 135-98-8 **Purity** 99%	(Lot MKBK3151V)	2,504.0	µg/mL	+/- 14.5585 +/- 133.2574 +/- 133.4043	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
63	p-Isopropyltoluene (p-Cymene) **CAS #** 99-87-6 **Purity** 99%	(Lot MKBK4439V)	2,501.1	µg/mL	+/- 14.5418 +/- 133.1044 +/- 133.2511	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
64	1,3-Dichlorobenzene **CAS #** 541-73-1 **Purity** 99%	(Lot BCBC1891V)	2,506.1	µg/mL	+/- 14.5708 +/- 133.3704 +/- 133.5175	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
65	1,4-Dichlorobenzene **CAS #** 106-46-7 **Purity** 99%	(Lot MKBL3891V)	2,507.0	µg/mL	+/- 14.5759 +/- 133.4170 +/- 133.5641	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
66	n-Butylbenzene **CAS #** 104-51-8 **Purity** 99%	(Lot 09418JJV)	2,502.6	µg/mL	+/- 14.5505 +/- 133.1842 +/- 133.3311	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
67	1,2-Dichlorobenzene **CAS #** 95-50-1 **Purity** 99%	(Lot 68996CMV)	2,501.6	µg/mL	+/- 14.5447 +/- 133.1310 +/- 133.2778	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
68	1,2-Dibromo-3-chloropropane **CAS #** 96-12-8 **Purity** 99%	(Lot FBL01)	2,505.9	µg/mL	+/- 14.5694 +/- 133.3571 +/- 133.5042	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
69	1,2,4-Trichlorobenzene **CAS #** 120-82-1 **Purity** 99%	(Lot 26896BM)	2,501.5	µg/mL	+/- 14.5439 +/- 133.1243 +/- 133.2711	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
70	Hexachlorobutadiene **CAS #** 87-68-3 **Purity** 98%	(Lot K22W009)	2,501.6	µg/mL	+/- 14.5444 +/- 133.1282 +/- 133.2750	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
71	Naphthalene **CAS #** 91-20-3 **Purity** 99%	(Lot MKBH4351V)	2,502.6	µg/mL	+/- 14.5505 +/- 133.1842 +/- 133.3311	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

72	1,2,3-Trichlorobenzene		2,503.4 µg/mL	+/-	14.5548	µg/mL	Gravimetric
	CAS # 87-61-6	(Lot 12912PFV)		+/-	133.2241	µg/mL	Unstressed
	Purity 99%			+/-	133.3710	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:
60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

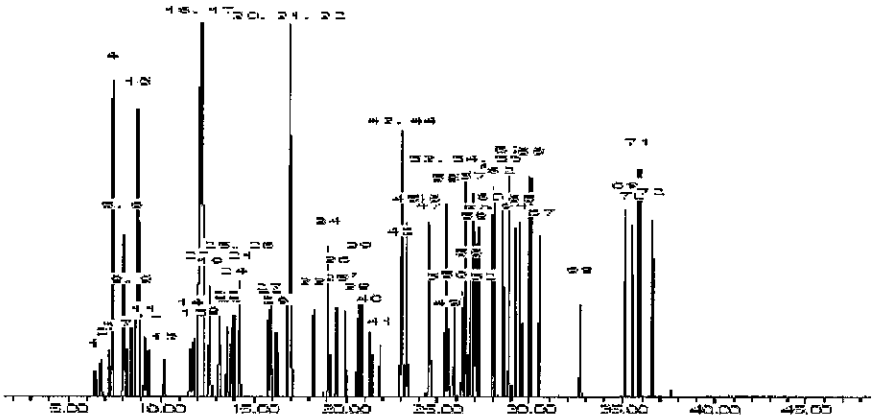
Carrier Gas:
helium-constant pressure 30 psi

Temp. Program:
40°C (hold 6 min.) to 240°C
@ 6°C/min. (hold 10 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Kendra Swope - Mix Technician

Date Mixed: 07-Jan-2015 **Balance:** 1125113331

Tyler Brown - QA Analyst

Date Passed: 14-Jan-2015

Manufactured under Restek's ISO 9001:2008 Registered Quality System Certificate #FM 80397

Reagent

VOA8260MEGA1_00032

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 569720 **Lot No.:** A0108166

Description : 8260 List 1 / Std #1 MegaMix (2015)

8260 List 1 / Std #1 MegaMix (2015) 1250-62500 µg/ml, P&T Methanol, 1 ml/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : January 31, 2017 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Diethyl ether (ethyl ether) **CAS #** 60-29-7 (Lot SHBF3466V) **Purity** 99%	2,521.3 µg/mL	+/- 14.6588 µg/mL +/- 134.1754 µg/mL +/- 134.3233 µg/mL	Gravimetric Unstressed Stressed
2	1,1,2-Trichlorotrifluoroethane (CFC-113) **CAS #** 76-13-1 (Lot 00001135) **Purity** 99%	2,522.5 µg/mL	+/- 14.6660 µg/mL +/- 134.2419 µg/mL +/- 134.3899 µg/mL	Gravimetric Unstressed Stressed
3	1,1-Dichloroethane **CAS #** 75-34-3 (Lot Q179-33) **Purity** 98%	2,499.5 µg/mL	+/- 14.5323 µg/mL +/- 133.0173 µg/mL +/- 133.1640 µg/mL	Gravimetric Unstressed Stressed
4	tert-Butanol (TBA) **CAS #** 75-65-0 (Lot SHBC6893V) **Purity** 99%	25,002.4 µg/mL	+/- 145.3584 µg/mL +/- 1,330.5704 µg/mL +/- 1,332.0378 µg/mL	Gravimetric Unstressed Stressed
5	Iodomethane (methyl iodide) **CAS #** 74-88-4 (Lot SHBC7288V) **Purity** 99%	2,510.0 µg/mL	+/- 14.5934 µg/mL +/- 133.5767 µg/mL +/- 133.7240 µg/mL	Gravimetric Unstressed Stressed
6	Methyl acetate **CAS #** 79-20-9 (Lot SHBD7134V) **Purity** 98%	12,505.4 µg/mL	+/- 72.7037 µg/mL +/- 665.5101 µg/mL +/- 666.2440 µg/mL	Gravimetric Unstressed Stressed
7	Allyl chloride (3-chloropropene) **CAS #** 107-05-1 (Lot MKBG5777V) **Purity** 99%	2,500.0 µg/mL	+/- 19.2743 µg/mL +/- 133.6453 µg/mL +/- 133.7914 µg/mL	Gravimetric Unstressed Stressed

8	Methylene chloride (dichloromethane)		2,511.3	µg/mL	+/-	14.6006	µg/mL	Gravimetric
	CAS # 75-09-2	(Lot SHBD4974V)			+/-	133.6432	µg/mL	Unstressed
	Purity 99%				+/-	133.7906	µg/mL	Stressed
9	Carbon disulfide		2,511.7	µg/mL	+/-	14.6035	µg/mL	Gravimetric
	CAS # 75-15-0	(Lot C30Y997)			+/-	133.6693	µg/mL	Unstressed
	Purity 98%				+/-	133.8167	µg/mL	Stressed
10	Acrylonitrile		25,017.1	µg/mL	+/-	145.4441	µg/mL	Gravimetric
	CAS # 107-13-1	(Lot 10172706)			+/-	1,331.3554	µg/mL	Unstressed
	Purity 99%				+/-	1,332.8236	µg/mL	Stressed
11	cis-1,2-Dichloroethene		2,503.9	µg/mL	+/-	14.5577	µg/mL	Gravimetric
	CAS # 156-59-2	(Lot MKBG8424V)			+/-	133.2507	µg/mL	Unstressed
	Purity 99%				+/-	133.3977	µg/mL	Stressed
12	n-Hexane (C6)		2,511.9	µg/mL	+/-	14.6043	µg/mL	Gravimetric
	CAS # 110-54-3	(Lot SHBF0293V)			+/-	133.6764	µg/mL	Unstressed
	Purity 99%				+/-	133.8239	µg/mL	Stressed
13	1,1-dichloroethene		2,521.3	µg/mL	+/-	14.6588	µg/mL	Gravimetric
	CAS # 75-35-4	(Lot SHBD6170V)			+/-	134.1754	µg/mL	Unstressed
	Purity 99%				+/-	134.3233	µg/mL	Stressed
14	2,2-Dichloropropane		2,500.0	µg/mL	+/-	14.5351	µg/mL	Gravimetric
	CAS # 594-20-7	(Lot BCBH9246V)			+/-	133.0434	µg/mL	Unstressed
	Purity 98%				+/-	133.1901	µg/mL	Stressed
15	trans-1,2-Dichloroethene		2,505.0	µg/mL	+/-	14.5643	µg/mL	Gravimetric
	CAS # 156-60-5	(Lot MKBH9850V)			+/-	133.3106	µg/mL	Unstressed
	Purity 99%				+/-	133.4576	µg/mL	Stressed
16	Isobutanol (2-Methyl-1-propanol)		62,553.8	µg/mL	+/-	363.6739	µg/mL	Gravimetric
	CAS # 78-83-1	(Lot SHBF2852V)			+/-	3,328.9705	µg/mL	Unstressed
	Purity 99%				+/-	3,332.6417	µg/mL	Stressed
17	Methyl-tert-butyl ether (MTBE)		2,504.6	µg/mL	+/-	14.5621	µg/mL	Gravimetric
	CAS # 1634-04-4	(Lot SHBF1193V)			+/-	133.2906	µg/mL	Unstressed
	Purity 99%				+/-	133.4376	µg/mL	Stressed
18	Bromochloromethane		2,505.1	µg/mL	+/-	14.5650	µg/mL	Gravimetric
	CAS # 74-97-5	(Lot 00004559)			+/-	133.3172	µg/mL	Unstressed
	Purity 99%				+/-	133.4642	µg/mL	Stressed
19	Tetrahydrofuran		5,000.7	µg/mL	+/-	29.0746	µg/mL	Gravimetric
	CAS # 109-99-9	(Lot SHBF2660V)			+/-	266.1270	µg/mL	Unstressed
	Purity 97%				+/-	266.4204	µg/mL	Stressed
20	1,1,1-trichloroethane		2,508.1	µg/mL	+/-	14.5825	µg/mL	Gravimetric
	CAS # 71-55-6	(Lot B14Z1114)			+/-	133.4769	µg/mL	Unstressed
	Purity 99%				+/-	133.6241	µg/mL	Stressed
21	Cyclohexane		2,504.0	µg/mL	+/-	14.5585	µg/mL	Gravimetric
	CAS # 110-82-7	(Lot SHBD7873V)			+/-	133.2574	µg/mL	Unstressed
	Purity 99%				+/-	133.4043	µg/mL	Stressed
22	1,1-Dichloropropene		2,502.4	µg/mL	+/-	14.5493	µg/mL	Gravimetric
	CAS # 563-58-6	(Lot PR09161302)			+/-	133.1738	µg/mL	Unstressed
	Purity 98%				+/-	133.3207	µg/mL	Stressed
23	carbon tetrachloride		2,505.3	µg/mL	+/-	14.5657	µg/mL	Gravimetric
	CAS # 56-23-5	(Lot SHBC1410V)			+/-	133.3239	µg/mL	Unstressed
	Purity 99%				+/-	133.4709	µg/mL	Stressed

24	n-Heptane (C7) **CAS #** 142-82-5 **Purity** 99%	(Lot SHBF2321V)	2,501.4	µg/mL	+/- 14.5432 +/- 133.1177 +/- 133.2645	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
25	1,2-Dichloroethane **CAS #** 107-06-2 **Purity** 99%	(Lot SHBC6595V)	2,501.6	µg/mL	+/- 14.5447 +/- 133.1310 +/- 133.2778	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
26	Benzene **CAS #** 71-43-2 **Purity** 99%	(Lot SHBD4617V)	2,509.1	µg/mL	+/- 14.5883 +/- 133.5301 +/- 133.6774	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
27	Trichloroethene **CAS #** 79-01-6 **Purity** 99%	(Lot SHBF0943V)	2,504.8	µg/mL	+/- 14.5628 +/- 133.2973 +/- 133.4443	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
28	Methylcyclohexane **CAS #** 108-87-2 **Purity** 99%	(Lot 50996APV)	2,502.5	µg/mL	+/- 14.5498 +/- 133.1775 +/- 133.3244	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
29	1,2-Dichloropropane **CAS #** 78-87-5 **Purity** 99%	(Lot 01113D0V)	2,502.4	µg/mL	+/- 14.5490 +/- 133.1709 +/- 133.3177	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
30	bromodichloromethane **CAS #** 75-27-4 **Purity** 98%	(Lot MKBL1617V)	2,507.9	µg/mL	+/- 14.5814 +/- 133.4672 +/- 133.6144	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
31	1,4-Dioxane **CAS #** 123-91-1 **Purity** 99%	(Lot SHBF2002V)	50,001.4	µg/mL	+/- 290.6971 +/- 2,660.9612 +/- 2,663.8957	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
32	Dibromomethane **CAS #** 74-95-3 **Purity** 99%	(Lot 10169264)	2,508.1	µg/mL	+/- 14.5825 +/- 133.4769 +/- 133.6241	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
33	cis-1,3-Dichloropropene **CAS #** 10061-01-5 **Purity** 99%	(Lot 20936)	2,507.0	µg/mL	+/- 14.5759 +/- 133.4170 +/- 133.5641	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
34	Toluene **CAS #** 108-88-3 **Purity** 99%	(Lot SHBF2730V)	2,502.4	µg/mL	+/- 14.5490 +/- 133.1709 +/- 133.3177	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
35	Ethyl methacrylate **CAS #** 97-63-2 **Purity** 99%	(Lot 69796APV)	2,500.9	µg/mL	+/- 14.5403 +/- 133.0911 +/- 133.2378	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
36	trans-1,3-Dichloropropene **CAS #** 10061-02-6 **Purity** 99%	(Lot C363110)	2,502.1	µg/mL	+/- 14.5476 +/- 133.1576 +/- 133.3044	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
37	1,1,2-Trichloroethane **CAS #** 79-00-5 **Purity** 99%	(Lot FGB01)	2,507.5	µg/mL	+/- 14.5788 +/- 133.4436 +/- 133.5908	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
38	1,3-Dichloropropane **CAS #** 142-28-9 **Purity** 99%	(Lot BCBG2162V)	2,505.3	µg/mL	+/- 14.5657 +/- 133.3239 +/- 133.4709	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
39	Tetrachloroethene **CAS #** 127-18-4 **Purity** 99%	(Lot SHBD2073V)	2,506.5	µg/mL	+/- 14.5730 +/- 133.3904 +/- 133.5375	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

40	dibromochloromethane		2,503.2	µg/mL	+/-	14.5536	µg/mL	Gravimetric
	CAS # 124-48-1	(Lot MKBP0459V)			+/-	133.2129	µg/mL	Unstressed
	Purity 98%				+/-	133.3598	µg/mL	Stressed
41	1,2-Dibromoethane (EDB)		2,504.3	µg/mL	+/-	14.5599	µg/mL	Gravimetric
	CAS # 106-93-4	(Lot BCBH3877V)			+/-	133.2707	µg/mL	Unstressed
	Purity 99%				+/-	133.4176	µg/mL	Stressed
42	Chlorobenzene		2,510.8	µg/mL	+/-	14.5977	µg/mL	Gravimetric
	CAS # 108-90-7	(Lot SHBD3200V)			+/-	133.6166	µg/mL	Unstressed
	Purity 99%				+/-	133.7639	µg/mL	Stressed
43	1,1,2,2-Tetrachloroethane		2,502.9	µg/mL	+/-	14.5519	µg/mL	Gravimetric
	CAS # 79-34-5	(Lot CFA4D)			+/-	133.1975	µg/mL	Unstressed
	Purity 99%				+/-	133.3444	µg/mL	Stressed
44	Ethylbenzene		2,509.6	µg/mL	+/-	14.5912	µg/mL	Gravimetric
	CAS # 100-41-4	(Lot SHBC9001V)			+/-	133.5567	µg/mL	Unstressed
	Purity 99%				+/-	133.7040	µg/mL	Stressed
45	m-Xylene		1,252.6	µg/mL	+/-	7.2829	µg/mL	Gravimetric
	CAS # 108-38-3	(Lot SHBF1720V)			+/-	66.6619	µg/mL	Unstressed
	Purity 99%				+/-	66.7355	µg/mL	Stressed
46	o-Xylene		2,503.7	µg/mL	+/-	14.5565	µg/mL	Gravimetric
	CAS # 95-47-6	(Lot SHBC8668V)			+/-	133.2390	µg/mL	Unstressed
	Purity 98%				+/-	133.3859	µg/mL	Stressed
47	p-Xylene		1,253.3	µg/mL	+/-	7.2865	µg/mL	Gravimetric
	CAS # 106-42-3	(Lot SHBF3427V)			+/-	66.6952	µg/mL	Unstressed
	Purity 99%				+/-	66.7688	µg/mL	Stressed
48	Styrene		2,503.5	µg/mL	+/-	14.5556	µg/mL	Gravimetric
	CAS # 100-42-5	(Lot 10182421)			+/-	133.2307	µg/mL	Unstressed
	Purity 99%				+/-	133.3777	µg/mL	Stressed
49	Isopropylbenzene (cumene)		2,502.5	µg/mL	+/-	14.5498	µg/mL	Gravimetric
	CAS # 98-82-8	(Lot 10169400)			+/-	133.1775	µg/mL	Unstressed
	Purity 99%				+/-	133.3244	µg/mL	Stressed
50	bromoform		2,507.8	µg/mL	+/-	14.5803	µg/mL	Gravimetric
	CAS # 75-25-2	(Lot SHBC3410V)			+/-	133.4569	µg/mL	Unstressed
	Purity 99%				+/-	133.6041	µg/mL	Stressed
51	1,1,1,2-Tetrachloroethane		2,510.3	µg/mL	+/-	14.5948	µg/mL	Gravimetric
	CAS # 630-20-6	(Lot MKBS3769V)			+/-	133.5900	µg/mL	Unstressed
	Purity 99%				+/-	133.7373	µg/mL	Stressed
52	chloroform		2,501.3	µg/mL	+/-	14.5425	µg/mL	Gravimetric
	CAS # 67-66-3	(Lot SHBB7498V)			+/-	133.1110	µg/mL	Unstressed
	Purity 99%				+/-	133.2578	µg/mL	Stressed
53	1,2,3-Trichloropropane		2,502.5	µg/mL	+/-	14.5498	µg/mL	Gravimetric
	CAS # 96-18-4	(Lot 1428739V)			+/-	133.1775	µg/mL	Unstressed
	Purity 99%				+/-	133.3244	µg/mL	Stressed
54	trans-1,4-dichloro-2-butene		2,499.5	µg/mL	+/-	14.5322	µg/mL	Gravimetric
	CAS # 110-57-6	(Lot MKBP5371V)			+/-	133.0168	µg/mL	Unstressed
	Purity 96%				+/-	133.1635	µg/mL	Stressed
55	n-Propylbenzene		2,500.3	µg/mL	+/-	14.5367	µg/mL	Gravimetric
	CAS # 103-65-1	(Lot MKBQ8049V)			+/-	133.0578	µg/mL	Unstressed
	Purity 99%				+/-	133.2045	µg/mL	Stressed

56	Bromobenzene **CAS #** 108-86-1 **Purity** 99%	(Lot MKBD4032V)	2,501.1	µg/mL	+/- 14.5418 +/- 133.1044 +/- 133.2511	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
57	1,2,4-Trimethylbenzene **CAS #** 95-63-6 **Purity** 98%	(Lot MKBJ1732V)	2,501.6	µg/mL	+/- 14.5444 +/- 133.1282 +/- 133.2750	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
58	2-Chlorotoluene **CAS #** 95-49-8 **Purity** 99%	(Lot MKBH8892V)	2,500.3	µg/mL	+/- 14.5367 +/- 133.0578 +/- 133.2045	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
59	4-Chlorotoluene **CAS #** 106-43-4 **Purity** 99%	(Lot MKBB7205V)	2,506.4	µg/mL	+/- 14.5723 +/- 133.3837 +/- 133.5308	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
60	tert-Butylbenzene **CAS #** 98-06-6 **Purity** 99%	(Lot S52237V)	2,500.1	µg/mL	+/- 14.5359 +/- 133.0511 +/- 133.1979	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
61	1,3,5-Trimethylbenzene **CAS #** 108-67-8 **Purity** 99%	(Lot BCBJ3305V)	2,503.1	µg/mL	+/- 14.5534 +/- 133.2108 +/- 133.3577	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
62	sec-Butylbenzene **CAS #** 135-98-8 **Purity** 99%	(Lot MKBK3151V)	2,504.0	µg/mL	+/- 14.5585 +/- 133.2574 +/- 133.4043	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
63	p-Isopropyltoluene (p-Cymene) **CAS #** 99-87-6 **Purity** 99%	(Lot MKBK4439V)	2,501.1	µg/mL	+/- 14.5418 +/- 133.1044 +/- 133.2511	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
64	1,3-Dichlorobenzene **CAS #** 541-73-1 **Purity** 99%	(Lot BCBC1891V)	2,506.1	µg/mL	+/- 14.5708 +/- 133.3704 +/- 133.5175	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
65	1,4-Dichlorobenzene **CAS #** 106-46-7 **Purity** 99%	(Lot MKBL3891V)	2,507.0	µg/mL	+/- 14.5759 +/- 133.4170 +/- 133.5641	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
66	n-Butylbenzene **CAS #** 104-51-8 **Purity** 99%	(Lot 09418JJV)	2,502.6	µg/mL	+/- 14.5505 +/- 133.1842 +/- 133.3311	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
67	1,2-Dichlorobenzene **CAS #** 95-50-1 **Purity** 99%	(Lot 68996CMV)	2,501.6	µg/mL	+/- 14.5447 +/- 133.1310 +/- 133.2778	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
68	1,2-Dibromo-3-chloropropane **CAS #** 96-12-8 **Purity** 99%	(Lot FBL01)	2,505.9	µg/mL	+/- 14.5694 +/- 133.3571 +/- 133.5042	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
69	1,2,4-Trichlorobenzene **CAS #** 120-82-1 **Purity** 99%	(Lot 26896BM)	2,501.5	µg/mL	+/- 14.5439 +/- 133.1243 +/- 133.2711	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
70	Hexachlorobutadiene **CAS #** 87-68-3 **Purity** 98%	(Lot K22W009)	2,501.6	µg/mL	+/- 14.5444 +/- 133.1282 +/- 133.2750	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
71	Naphthalene **CAS #** 91-20-3 **Purity** 99%	(Lot MKBH4351V)	2,502.6	µg/mL	+/- 14.5505 +/- 133.1842 +/- 133.3311	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

72	1,2,3-Trichlorobenzene		2,503.4 µg/mL	+/-	14.5548	µg/mL	Gravimetric
	CAS # 87-61-6	(Lot 12912PFV)		+/-	133.2241	µg/mL	Unstressed
	Purity 99%			+/-	133.3710	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:
60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

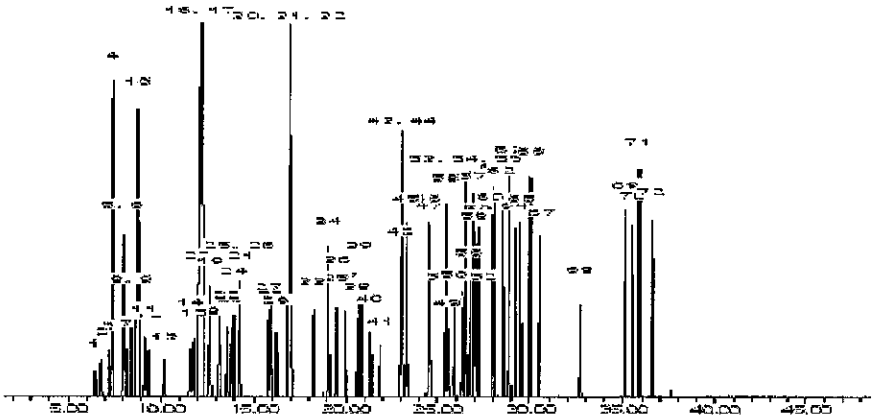
Carrier Gas:
helium-constant pressure 30 psi

Temp. Program:
40°C (hold 6 min.) to 240°C
@ 6°C/min. (hold 10 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Kendra Swope - Mix Technician

Date Mixed: 07-Jan-2015 **Balance:** 1125113331

Tyler Brown - QA Analyst

Date Passed: 14-Jan-2015

Manufactured under Restek's ISO 9001:2008 Registered Quality System Certificate #FM 80397

Reagent

VOA8260MEGA1_00034

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO Guide 34 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 569720 **Lot No.:** A0108166

Description : 8260 List 1 / Std #1 MegaMix (2015)

8260 List 1 / Std #1 MegaMix (2015) 1250-62500 µg/ml, P&T Methanol, 1 ml/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : January 31, 2017 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Diethyl ether (ethyl ether) **CAS #** 60-29-7 (Lot SHBF3466V) **Purity** 99%	2,521.3 µg/mL	+/- 14.6588 +/- 134.1754 +/- 134.3233	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
2	1,1,2-Trichlorotrifluoroethane (CFC-113) **CAS #** 76-13-1 (Lot 00001135) **Purity** 99%	2,522.5 µg/mL	+/- 14.6660 +/- 134.2419 +/- 134.3899	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
3	1,1-Dichloroethane **CAS #** 75-34-3 (Lot Q179-33) **Purity** 98%	2,499.5 µg/mL	+/- 14.5323 +/- 133.0173 +/- 133.1640	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
4	tert-Butanol (TBA) **CAS #** 75-65-0 (Lot SHBC6893V) **Purity** 99%	25,002.4 µg/mL	+/- 145.3584 +/- 1,330.5704 +/- 1,332.0378	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
5	Iodomethane (methyl iodide) **CAS #** 74-88-4 (Lot SHBC7288V) **Purity** 99%	2,510.0 µg/mL	+/- 14.5934 +/- 133.5767 +/- 133.7240	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
6	Methyl acetate **CAS #** 79-20-9 (Lot SHBD7134V) **Purity** 98%	12,505.4 µg/mL	+/- 72.7037 +/- 665.5101 +/- 666.2440	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
7	Allyl chloride (3-chloropropene) **CAS #** 107-05-1 (Lot MKBG5777V) **Purity** 99%	2,500.0 µg/mL	+/- 19.2743 +/- 133.6453 +/- 133.7914	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

8	Methylene chloride (dichloromethane)		2,511.3	µg/mL	+/-	14.6006	µg/mL	Gravimetric
	CAS # 75-09-2	(Lot SHBD4974V)			+/-	133.6432	µg/mL	Unstressed
	Purity 99%				+/-	133.7906	µg/mL	Stressed
9	Carbon disulfide		2,511.7	µg/mL	+/-	14.6035	µg/mL	Gravimetric
	CAS # 75-15-0	(Lot C30Y997)			+/-	133.6693	µg/mL	Unstressed
	Purity 98%				+/-	133.8167	µg/mL	Stressed
10	Acrylonitrile		25,017.1	µg/mL	+/-	145.4441	µg/mL	Gravimetric
	CAS # 107-13-1	(Lot 10172706)			+/-	1,331.3554	µg/mL	Unstressed
	Purity 99%				+/-	1,332.8236	µg/mL	Stressed
11	cis-1,2-Dichloroethene		2,503.9	µg/mL	+/-	14.5577	µg/mL	Gravimetric
	CAS # 156-59-2	(Lot MKBG8424V)			+/-	133.2507	µg/mL	Unstressed
	Purity 99%				+/-	133.3977	µg/mL	Stressed
12	n-Hexane (C6)		2,511.9	µg/mL	+/-	14.6043	µg/mL	Gravimetric
	CAS # 110-54-3	(Lot SHBF0293V)			+/-	133.6764	µg/mL	Unstressed
	Purity 99%				+/-	133.8239	µg/mL	Stressed
13	1,1-dichloroethene		2,521.3	µg/mL	+/-	14.6588	µg/mL	Gravimetric
	CAS # 75-35-4	(Lot SHBD6170V)			+/-	134.1754	µg/mL	Unstressed
	Purity 99%				+/-	134.3233	µg/mL	Stressed
14	2,2-Dichloropropane		2,500.0	µg/mL	+/-	14.5351	µg/mL	Gravimetric
	CAS # 594-20-7	(Lot BCBH9246V)			+/-	133.0434	µg/mL	Unstressed
	Purity 98%				+/-	133.1901	µg/mL	Stressed
15	trans-1,2-Dichloroethene		2,505.0	µg/mL	+/-	14.5643	µg/mL	Gravimetric
	CAS # 156-60-5	(Lot MKBH9850V)			+/-	133.3106	µg/mL	Unstressed
	Purity 99%				+/-	133.4576	µg/mL	Stressed
16	Isobutanol (2-Methyl-1-propanol)		62,553.8	µg/mL	+/-	363.6739	µg/mL	Gravimetric
	CAS # 78-83-1	(Lot SHBF2852V)			+/-	3,328.9705	µg/mL	Unstressed
	Purity 99%				+/-	3,332.6417	µg/mL	Stressed
17	Methyl-tert-butyl ether (MTBE)		2,504.6	µg/mL	+/-	14.5621	µg/mL	Gravimetric
	CAS # 1634-04-4	(Lot SHBF1193V)			+/-	133.2906	µg/mL	Unstressed
	Purity 99%				+/-	133.4376	µg/mL	Stressed
18	Bromochloromethane		2,505.1	µg/mL	+/-	14.5650	µg/mL	Gravimetric
	CAS # 74-97-5	(Lot 00004559)			+/-	133.3172	µg/mL	Unstressed
	Purity 99%				+/-	133.4642	µg/mL	Stressed
19	Tetrahydrofuran		5,000.7	µg/mL	+/-	29.0746	µg/mL	Gravimetric
	CAS # 109-99-9	(Lot SHBF2660V)			+/-	266.1270	µg/mL	Unstressed
	Purity 97%				+/-	266.4204	µg/mL	Stressed
20	1,1,1-trichloroethane		2,508.1	µg/mL	+/-	14.5825	µg/mL	Gravimetric
	CAS # 71-55-6	(Lot B14Z1114)			+/-	133.4769	µg/mL	Unstressed
	Purity 99%				+/-	133.6241	µg/mL	Stressed
21	Cyclohexane		2,504.0	µg/mL	+/-	14.5585	µg/mL	Gravimetric
	CAS # 110-82-7	(Lot SHBD7873V)			+/-	133.2574	µg/mL	Unstressed
	Purity 99%				+/-	133.4043	µg/mL	Stressed
22	1,1-Dichloropropene		2,502.4	µg/mL	+/-	14.5493	µg/mL	Gravimetric
	CAS # 563-58-6	(Lot PR09161302)			+/-	133.1738	µg/mL	Unstressed
	Purity 98%				+/-	133.3207	µg/mL	Stressed
23	carbon tetrachloride		2,505.3	µg/mL	+/-	14.5657	µg/mL	Gravimetric
	CAS # 56-23-5	(Lot SHBC1410V)			+/-	133.3239	µg/mL	Unstressed
	Purity 99%				+/-	133.4709	µg/mL	Stressed

24	n-Heptane (C7) **CAS #** 142-82-5 **Purity** 99%	(Lot SHBF2321V)	2,501.4	µg/mL	+/- 14.5432 +/- 133.1177 +/- 133.2645	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
25	1,2-Dichloroethane **CAS #** 107-06-2 **Purity** 99%	(Lot SHBC6595V)	2,501.6	µg/mL	+/- 14.5447 +/- 133.1310 +/- 133.2778	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
26	Benzene **CAS #** 71-43-2 **Purity** 99%	(Lot SHBD4617V)	2,509.1	µg/mL	+/- 14.5883 +/- 133.5301 +/- 133.6774	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
27	Trichloroethene **CAS #** 79-01-6 **Purity** 99%	(Lot SHBF0943V)	2,504.8	µg/mL	+/- 14.5628 +/- 133.2973 +/- 133.4443	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
28	Methylcyclohexane **CAS #** 108-87-2 **Purity** 99%	(Lot 50996APV)	2,502.5	µg/mL	+/- 14.5498 +/- 133.1775 +/- 133.3244	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
29	1,2-Dichloropropane **CAS #** 78-87-5 **Purity** 99%	(Lot 01113D0V)	2,502.4	µg/mL	+/- 14.5490 +/- 133.1709 +/- 133.3177	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
30	bromodichloromethane **CAS #** 75-27-4 **Purity** 98%	(Lot MKBL1617V)	2,507.9	µg/mL	+/- 14.5814 +/- 133.4672 +/- 133.6144	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
31	1,4-Dioxane **CAS #** 123-91-1 **Purity** 99%	(Lot SHBF2002V)	50,001.4	µg/mL	+/- 290.6971 +/- 2,660.9612 +/- 2,663.8957	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
32	Dibromomethane **CAS #** 74-95-3 **Purity** 99%	(Lot 10169264)	2,508.1	µg/mL	+/- 14.5825 +/- 133.4769 +/- 133.6241	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
33	cis-1,3-Dichloropropene **CAS #** 10061-01-5 **Purity** 99%	(Lot 20936)	2,507.0	µg/mL	+/- 14.5759 +/- 133.4170 +/- 133.5641	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
34	Toluene **CAS #** 108-88-3 **Purity** 99%	(Lot SHBF2730V)	2,502.4	µg/mL	+/- 14.5490 +/- 133.1709 +/- 133.3177	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
35	Ethyl methacrylate **CAS #** 97-63-2 **Purity** 99%	(Lot 69796APV)	2,500.9	µg/mL	+/- 14.5403 +/- 133.0911 +/- 133.2378	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
36	trans-1,3-Dichloropropene **CAS #** 10061-02-6 **Purity** 99%	(Lot C363110)	2,502.1	µg/mL	+/- 14.5476 +/- 133.1576 +/- 133.3044	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
37	1,1,2-Trichloroethane **CAS #** 79-00-5 **Purity** 99%	(Lot FGB01)	2,507.5	µg/mL	+/- 14.5788 +/- 133.4436 +/- 133.5908	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
38	1,3-Dichloropropane **CAS #** 142-28-9 **Purity** 99%	(Lot BCBG2162V)	2,505.3	µg/mL	+/- 14.5657 +/- 133.3239 +/- 133.4709	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
39	Tetrachloroethene **CAS #** 127-18-4 **Purity** 99%	(Lot SHBD2073V)	2,506.5	µg/mL	+/- 14.5730 +/- 133.3904 +/- 133.5375	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

40	dibromochloromethane		2,503.2	µg/mL	+/-	14.5536	µg/mL	Gravimetric
	CAS # 124-48-1	(Lot MKBP0459V)			+/-	133.2129	µg/mL	Unstressed
	Purity 98%				+/-	133.3598	µg/mL	Stressed
41	1,2-Dibromoethane (EDB)		2,504.3	µg/mL	+/-	14.5599	µg/mL	Gravimetric
	CAS # 106-93-4	(Lot BCBH3877V)			+/-	133.2707	µg/mL	Unstressed
	Purity 99%				+/-	133.4176	µg/mL	Stressed
42	Chlorobenzene		2,510.8	µg/mL	+/-	14.5977	µg/mL	Gravimetric
	CAS # 108-90-7	(Lot SHBD3200V)			+/-	133.6166	µg/mL	Unstressed
	Purity 99%				+/-	133.7639	µg/mL	Stressed
43	1,1,2,2-Tetrachloroethane		2,502.9	µg/mL	+/-	14.5519	µg/mL	Gravimetric
	CAS # 79-34-5	(Lot CFA4D)			+/-	133.1975	µg/mL	Unstressed
	Purity 99%				+/-	133.3444	µg/mL	Stressed
44	Ethylbenzene		2,509.6	µg/mL	+/-	14.5912	µg/mL	Gravimetric
	CAS # 100-41-4	(Lot SHBC9001V)			+/-	133.5567	µg/mL	Unstressed
	Purity 99%				+/-	133.7040	µg/mL	Stressed
45	m-Xylene		1,252.6	µg/mL	+/-	7.2829	µg/mL	Gravimetric
	CAS # 108-38-3	(Lot SHBF1720V)			+/-	66.6619	µg/mL	Unstressed
	Purity 99%				+/-	66.7355	µg/mL	Stressed
46	o-Xylene		2,503.7	µg/mL	+/-	14.5565	µg/mL	Gravimetric
	CAS # 95-47-6	(Lot SHBC8668V)			+/-	133.2390	µg/mL	Unstressed
	Purity 98%				+/-	133.3859	µg/mL	Stressed
47	p-Xylene		1,253.3	µg/mL	+/-	7.2865	µg/mL	Gravimetric
	CAS # 106-42-3	(Lot SHBF3427V)			+/-	66.6952	µg/mL	Unstressed
	Purity 99%				+/-	66.7688	µg/mL	Stressed
48	Styrene		2,503.5	µg/mL	+/-	14.5556	µg/mL	Gravimetric
	CAS # 100-42-5	(Lot 10182421)			+/-	133.2307	µg/mL	Unstressed
	Purity 99%				+/-	133.3777	µg/mL	Stressed
49	Isopropylbenzene (cumene)		2,502.5	µg/mL	+/-	14.5498	µg/mL	Gravimetric
	CAS # 98-82-8	(Lot 10169400)			+/-	133.1775	µg/mL	Unstressed
	Purity 99%				+/-	133.3244	µg/mL	Stressed
50	bromoform		2,507.8	µg/mL	+/-	14.5803	µg/mL	Gravimetric
	CAS # 75-25-2	(Lot SHBC3410V)			+/-	133.4569	µg/mL	Unstressed
	Purity 99%				+/-	133.6041	µg/mL	Stressed
51	1,1,1,2-Tetrachloroethane		2,510.3	µg/mL	+/-	14.5948	µg/mL	Gravimetric
	CAS # 630-20-6	(Lot MKBS3769V)			+/-	133.5900	µg/mL	Unstressed
	Purity 99%				+/-	133.7373	µg/mL	Stressed
52	chloroform		2,501.3	µg/mL	+/-	14.5425	µg/mL	Gravimetric
	CAS # 67-66-3	(Lot SHBB7498V)			+/-	133.1110	µg/mL	Unstressed
	Purity 99%				+/-	133.2578	µg/mL	Stressed
53	1,2,3-Trichloropropane		2,502.5	µg/mL	+/-	14.5498	µg/mL	Gravimetric
	CAS # 96-18-4	(Lot 1428739V)			+/-	133.1775	µg/mL	Unstressed
	Purity 99%				+/-	133.3244	µg/mL	Stressed
54	trans-1,4-dichloro-2-butene		2,499.5	µg/mL	+/-	14.5322	µg/mL	Gravimetric
	CAS # 110-57-6	(Lot MKBP5371V)			+/-	133.0168	µg/mL	Unstressed
	Purity 96%				+/-	133.1635	µg/mL	Stressed
55	n-Propylbenzene		2,500.3	µg/mL	+/-	14.5367	µg/mL	Gravimetric
	CAS # 103-65-1	(Lot MKBQ8049V)			+/-	133.0578	µg/mL	Unstressed
	Purity 99%				+/-	133.2045	µg/mL	Stressed

56	Bromobenzene **CAS #** 108-86-1 **Purity** 99%	(Lot MKBD4032V)	2,501.1	µg/mL	+/- 14.5418 +/- 133.1044 +/- 133.2511	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
57	1,2,4-Trimethylbenzene **CAS #** 95-63-6 **Purity** 98%	(Lot MKBJ1732V)	2,501.6	µg/mL	+/- 14.5444 +/- 133.1282 +/- 133.2750	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
58	2-Chlorotoluene **CAS #** 95-49-8 **Purity** 99%	(Lot MKBH8892V)	2,500.3	µg/mL	+/- 14.5367 +/- 133.0578 +/- 133.2045	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
59	4-Chlorotoluene **CAS #** 106-43-4 **Purity** 99%	(Lot MKBB7205V)	2,506.4	µg/mL	+/- 14.5723 +/- 133.3837 +/- 133.5308	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
60	tert-Butylbenzene **CAS #** 98-06-6 **Purity** 99%	(Lot S52237V)	2,500.1	µg/mL	+/- 14.5359 +/- 133.0511 +/- 133.1979	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
61	1,3,5-Trimethylbenzene **CAS #** 108-67-8 **Purity** 99%	(Lot BCBJ3305V)	2,503.1	µg/mL	+/- 14.5534 +/- 133.2108 +/- 133.3577	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
62	sec-Butylbenzene **CAS #** 135-98-8 **Purity** 99%	(Lot MKBK3151V)	2,504.0	µg/mL	+/- 14.5585 +/- 133.2574 +/- 133.4043	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
63	p-Isopropyltoluene (p-Cymene) **CAS #** 99-87-6 **Purity** 99%	(Lot MKBK4439V)	2,501.1	µg/mL	+/- 14.5418 +/- 133.1044 +/- 133.2511	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
64	1,3-Dichlorobenzene **CAS #** 541-73-1 **Purity** 99%	(Lot BCBC1891V)	2,506.1	µg/mL	+/- 14.5708 +/- 133.3704 +/- 133.5175	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
65	1,4-Dichlorobenzene **CAS #** 106-46-7 **Purity** 99%	(Lot MKBL3891V)	2,507.0	µg/mL	+/- 14.5759 +/- 133.4170 +/- 133.5641	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
66	n-Butylbenzene **CAS #** 104-51-8 **Purity** 99%	(Lot 09418JJV)	2,502.6	µg/mL	+/- 14.5505 +/- 133.1842 +/- 133.3311	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
67	1,2-Dichlorobenzene **CAS #** 95-50-1 **Purity** 99%	(Lot 68996CMV)	2,501.6	µg/mL	+/- 14.5447 +/- 133.1310 +/- 133.2778	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
68	1,2-Dibromo-3-chloropropane **CAS #** 96-12-8 **Purity** 99%	(Lot FBL01)	2,505.9	µg/mL	+/- 14.5694 +/- 133.3571 +/- 133.5042	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
69	1,2,4-Trichlorobenzene **CAS #** 120-82-1 **Purity** 99%	(Lot 26896BM)	2,501.5	µg/mL	+/- 14.5439 +/- 133.1243 +/- 133.2711	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
70	Hexachlorobutadiene **CAS #** 87-68-3 **Purity** 98%	(Lot K22W009)	2,501.6	µg/mL	+/- 14.5444 +/- 133.1282 +/- 133.2750	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
71	Naphthalene **CAS #** 91-20-3 **Purity** 99%	(Lot MKBH4351V)	2,502.6	µg/mL	+/- 14.5505 +/- 133.1842 +/- 133.3311	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

72	1,2,3-Trichlorobenzene		2,503.4 µg/mL	+/-	14.5548	µg/mL	Gravimetric
	CAS # 87-61-6	(Lot 12912PFV)		+/-	133.2241	µg/mL	Unstressed
	Purity 99%			+/-	133.3710	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:
60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

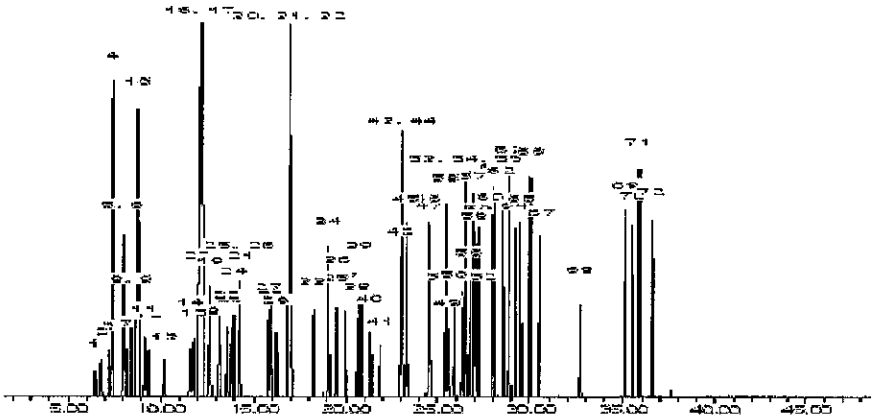
Carrier Gas:
helium-constant pressure 30 psi

Temp. Program:
40°C (hold 6 min.) to 240°C
@ 6°C/min. (hold 10 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Kendra Swope - Mix Technician

Date Mixed: 07-Jan-2015 **Balance:** 1125113331

Tyler Brown - QA Analyst

Date Passed: 14-Jan-2015

Manufactured under Restek's ISO 9001:2008 Registered Quality System Certificate #FM 80397

Reagent

VOA8260MEGA2_00037

RESTEK®
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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

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ISO Guide 34 Accredited
Reference Material Producer
Certificate #3222.01

ilac-MRA

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 569720.sec **Lot No.:** A0108163

Description : 8260 List 1 / Std #1 MegaMix (2015)

8260 List 1 / Std #1 MegaMix (2015) 1250-62500 µg/ml, P&T Methanol, 1 ml/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : January 31, 2017 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Diethyl ether (ethyl ether) **CAS #** 60-29-7.SEC (Lot F23X068) **Purity** 99%	2,501.1 µg/mL	+/- 14.5418 µg/mL +/- 133.1044 µg/mL +/- 133.2511 µg/mL	Gravimetric Unstressed Stressed
2	1,1,2-Trichlorotrifluoroethane (CFC-113) **CAS #** 76-13-1.SEC (Lot 18342) **Purity** 99%	2,501.1 µg/mL	+/- 14.5418 µg/mL +/- 133.1044 µg/mL +/- 133.2511 µg/mL	Gravimetric Unstressed Stressed
3	1,1-Dichloroethene **CAS #** 75-35-4.SEC (Lot 903000) **Purity** 99%	2,502.8 µg/mL	+/- 14.5512 µg/mL +/- 133.1908 µg/mL +/- 133.3377 µg/mL	Gravimetric Unstressed Stressed
4	tert-Butanol (TBA) **CAS #** 75-65-0.SEC (Lot XYXDO) **Purity** 98%	25,000.5 µg/mL	+/- 145.3477 µg/mL +/- 1,330.4725 µg/mL +/- 1,331.9397 µg/mL	Gravimetric Unstressed Stressed
5	Iodomethane (methyl iodide) **CAS #** 74-88-4.SEC (Lot A13Y016) **Purity** 97%	2,500.5 µg/mL	+/- 14.5383 µg/mL +/- 133.0732 µg/mL +/- 133.2199 µg/mL	Gravimetric Unstressed Stressed
6	Methyl acetate **CAS #** 79-20-9.SEC (Lot YDGVD) **Purity** 99%	12,500.6 µg/mL	+/- 72.6759 µg/mL +/- 665.2553 µg/mL +/- 665.9889 µg/mL	Gravimetric Unstressed Stressed
7	Allyl chloride (3-chloropropene) **CAS #** 107-05-1.SEC (Lot 5MNOA-DQ) **Purity** 99%	2,501.3 µg/mL	+/- 14.5425 µg/mL +/- 133.1110 µg/mL +/- 133.2578 µg/mL	Gravimetric Unstressed Stressed

8	Methylene chloride (dichloromethane)		2,501.4	µg/mL	+/-	14.5432	µg/mL	Gravimetric
	CAS # 75-09-2.SEC	(Lot FGM02)			+/-	133.1177	µg/mL	Unstressed
	Purity 99%				+/-	133.2645	µg/mL	Stressed
9	Carbon disulfide		2,501.2	µg/mL	+/-	14.5422	µg/mL	Gravimetric
	CAS # 75-15-0.SEC	(Lot MKBL1376V)			+/-	133.1086	µg/mL	Unstressed
	Purity 98%				+/-	133.2554	µg/mL	Stressed
10	Acrylonitrile		25,002.1	µg/mL	+/-	145.3569	µg/mL	Gravimetric
	CAS # 107-13-1.SEC	(Lot CCFKL)			+/-	1,330.5571	µg/mL	Unstressed
	Purity 99%				+/-	1,332.0244	µg/mL	Stressed
11	cis-1,2-Dichloroethene		2,500.3	µg/mL	+/-	14.5367	µg/mL	Gravimetric
	CAS # 156-59-2.SEC	(Lot HGC01-BLKT)			+/-	133.0578	µg/mL	Unstressed
	Purity 99%				+/-	133.2045	µg/mL	Stressed
12	n-Hexane (C6)		2,500.1	µg/mL	+/-	14.5358	µg/mL	Gravimetric
	CAS # 110-54-3.SEC	(Lot K24W001)			+/-	133.0499	µg/mL	Unstressed
	Purity 98%				+/-	133.1967	µg/mL	Stressed
13	1,1-Dichloroethane		2,503.0	µg/mL	+/-	14.5527	µg/mL	Gravimetric
	CAS # 75-34-3.SEC	(Lot 2663100)			+/-	133.2041	µg/mL	Unstressed
	Purity 99%				+/-	133.3510	µg/mL	Stressed
14	2,2-Dichloropropane		2,500.8	µg/mL	+/-	14.5396	µg/mL	Gravimetric
	CAS # 594-20-7.SEC	(Lot GI01)			+/-	133.0844	µg/mL	Unstressed
	Purity 99%				+/-	133.2312	µg/mL	Stressed
15	trans-1,2-Dichloroethene		2,500.2	µg/mL	+/-	14.5362	µg/mL	Gravimetric
	CAS # 156-60-5.SEC	(Lot TS5UB)			+/-	133.0538	µg/mL	Unstressed
	Purity 97%				+/-	133.2005	µg/mL	Stressed
16	Isobutanol (2-Methyl-1-propanol)		62,501.3	µg/mL	+/-	363.3687	µg/mL	Gravimetric
	CAS # 78-83-1.SEC	(Lot PH2XK)			+/-	3,326.1766	µg/mL	Unstressed
	Purity 99%				+/-	3,329.8447	µg/mL	Stressed
17	Methyl-tert-butyl ether (MTBE)		2,500.5	µg/mL	+/-	14.5381	µg/mL	Gravimetric
	CAS # 1634-04-4.SEC	(Lot ZAQTA-MS)			+/-	133.0711	µg/mL	Unstressed
	Purity 99%				+/-	133.2178	µg/mL	Stressed
18	Bromochloromethane		2,500.6	µg/mL	+/-	14.5388	µg/mL	Gravimetric
	CAS # 74-97-5.SEC	(Lot 345600)			+/-	133.0777	µg/mL	Unstressed
	Purity 99%				+/-	133.2245	µg/mL	Stressed
19	Tetrahydrofuran		5,002.3	µg/mL	+/-	29.0835	µg/mL	Gravimetric
	CAS # 109-99-9.SEC	(Lot XWFLA)			+/-	266.2087	µg/mL	Unstressed
	Purity 99%				+/-	266.5023	µg/mL	Stressed
20	1,1,1-Trichloroethane		2,501.9	µg/mL	+/-	14.5461	µg/mL	Gravimetric
	CAS # 71-55-6.SEC	(Lot 1103200)			+/-	133.1443	µg/mL	Unstressed
	Purity 99%				+/-	133.2911	µg/mL	Stressed
21	Cyclohexane		2,501.5	µg/mL	+/-	14.5439	µg/mL	Gravimetric
	CAS # 110-82-7.SEC	(Lot YADRA)			+/-	133.1243	µg/mL	Unstressed
	Purity 99%				+/-	133.2711	µg/mL	Stressed
22	1,1-Dichloropropene		2,501.1	µg/mL	+/-	14.5419	µg/mL	Gravimetric
	CAS # 563-58-6.SEC	(Lot 2028500)			+/-	133.1054	µg/mL	Unstressed
	Purity 97%				+/-	133.2522	µg/mL	Stressed
23	Carbon tetrachloride		2,501.9	µg/mL	+/-	14.5465	µg/mL	Gravimetric
	CAS # 56-23-5.SEC	(Lot 11466)			+/-	133.1477	µg/mL	Unstressed
	Purity 98%				+/-	133.2946	µg/mL	Stressed

24	n-Heptane (C7)		2,500.4	µg/mL	+/-	14.5374	µg/mL	Gravimetric
	CAS # 142-82-5.SEC	(Lot OGM01)			+/-	133.0644	µg/mL	Unstressed
	Purity 99%				+/-	133.2112	µg/mL	Stressed
25	1,2-Dichloroethane		2,501.9	µg/mL	+/-	14.5461	µg/mL	Gravimetric
	CAS # 107-06-2.SEC	(Lot FO6PK)			+/-	133.1443	µg/mL	Unstressed
	Purity 99%				+/-	133.2911	µg/mL	Stressed
26	Benzene		2,500.9	µg/mL	+/-	14.5403	µg/mL	Gravimetric
	CAS # 71-43-2.SEC	(Lot B28Y008)			+/-	133.0911	µg/mL	Unstressed
	Purity 99%				+/-	133.2378	µg/mL	Stressed
27	Trichloroethene		2,500.6	µg/mL	+/-	14.5387	µg/mL	Gravimetric
	CAS # 79-01-6.SEC	(Lot H04X050)			+/-	133.0760	µg/mL	Unstressed
	Purity 98%				+/-	133.2228	µg/mL	Stressed
28	Methylcyclohexane		2,500.5	µg/mL	+/-	14.5381	µg/mL	Gravimetric
	CAS # 108-87-2.SEC	(Lot 24MSD-CD)			+/-	133.0711	µg/mL	Unstressed
	Purity 99%				+/-	133.2178	µg/mL	Stressed
29	1,2-Dichloropropane		2,500.0	µg/mL	+/-	14.5352	µg/mL	Gravimetric
	CAS # 78-87-5.SEC	(Lot OGG01)			+/-	133.0445	µg/mL	Unstressed
	Purity 99%				+/-	133.1912	µg/mL	Stressed
30	Bromodichloromethane		2,501.5	µg/mL	+/-	14.5439	µg/mL	Gravimetric
	CAS # 75-27-4.SEC	(Lot 10171168)			+/-	133.1243	µg/mL	Unstressed
	Purity 99%				+/-	133.2711	µg/mL	Stressed
31	1,4-Dioxane		50,000.8	µg/mL	+/-	290.6935	µg/mL	Gravimetric
	CAS # 123-91-1.SEC	(Lot CHA4A)			+/-	2,660.9280	µg/mL	Unstressed
	Purity 99%				+/-	2,663.8624	µg/mL	Stressed
32	Dibromomethane		2,500.6	µg/mL	+/-	14.5388	µg/mL	Gravimetric
	CAS # 74-95-3.SEC	(Lot FGI01-OICH)			+/-	133.0777	µg/mL	Unstressed
	Purity 99%				+/-	133.2245	µg/mL	Stressed
33	cis-1,3-Dichloropropene		2,501.0	µg/mL	+/-	14.5410	µg/mL	Gravimetric
	CAS # 10061-01-5.SEC	(Lot 7ZLXJ-TJ)			+/-	133.0977	µg/mL	Unstressed
	Purity 99%				+/-	133.2445	µg/mL	Stressed
34	Toluene		2,500.1	µg/mL	+/-	14.5359	µg/mL	Gravimetric
	CAS # 108-88-3.SEC	(Lot YND2B-BD)			+/-	133.0511	µg/mL	Unstressed
	Purity 99%				+/-	133.1979	µg/mL	Stressed
35	Ethyl methacrylate		2,500.8	µg/mL	+/-	14.5396	µg/mL	Gravimetric
	CAS # 97-63-2.SEC	(Lot MLWYK-LS)			+/-	133.0844	µg/mL	Unstressed
	Purity 99%				+/-	133.2312	µg/mL	Stressed
36	trans-1,3-Dichloropropene		2,501.6	µg/mL	+/-	14.5444	µg/mL	Gravimetric
	CAS # 10061-02-6.SEC	(Lot 2ECIC-NM)			+/-	133.1282	µg/mL	Unstressed
	Purity 98%				+/-	133.2750	µg/mL	Stressed
37	1,1,2-Trichloroethane		2,501.0	µg/mL	+/-	14.5410	µg/mL	Gravimetric
	CAS # 79-00-5.SEC	(Lot 732700)			+/-	133.0977	µg/mL	Unstressed
	Purity 99%				+/-	133.2445	µg/mL	Stressed
38	1,3-Dichloropropane		2,500.8	µg/mL	+/-	14.5396	µg/mL	Gravimetric
	CAS # 142-28-9.SEC	(Lot AGN01-EFPC)			+/-	133.0844	µg/mL	Unstressed
	Purity 99%				+/-	133.2312	µg/mL	Stressed
39	Tetrachloroethene		2,500.0	µg/mL	+/-	14.5352	µg/mL	Gravimetric
	CAS # 127-18-4.SEC	(Lot F09W014)			+/-	133.0445	µg/mL	Unstressed
	Purity 99%				+/-	133.1912	µg/mL	Stressed

40	Dibromochloromethane		2,501.8	µg/mL	+/-	14.5454	µg/mL	Gravimetric
	CAS # 124-48-1.SEC	(Lot I13W021)			+/-	133.1377	µg/mL	Unstressed
	Purity 97%				+/-	133.2845	µg/mL	Stressed
41	1,2-Dibromoethane (EDB)		2,502.1	µg/mL	+/-	14.5472	µg/mL	Gravimetric
	CAS # 106-93-4.SEC	(Lot 1368400)			+/-	133.1542	µg/mL	Unstressed
	Purity 98%				+/-	133.3011	µg/mL	Stressed
42	Chlorobenzene		2,501.6	µg/mL	+/-	14.5447	µg/mL	Gravimetric
	CAS # 108-90-7.SEC	(Lot 1161936)			+/-	133.1310	µg/mL	Unstressed
	Purity 99%				+/-	133.2778	µg/mL	Stressed
43	1,1,1,2-Tetrachloroethane		2,500.8	µg/mL	+/-	14.5396	µg/mL	Gravimetric
	CAS # 630-20-6.SEC	(Lot GC01-QSHR)			+/-	133.0844	µg/mL	Unstressed
	Purity 99%				+/-	133.2312	µg/mL	Stressed
44	Ethylbenzene		2,500.3	µg/mL	+/-	14.5367	µg/mL	Gravimetric
	CAS # 100-41-4.SEC	(Lot PI4SE-GR)			+/-	133.0578	µg/mL	Unstressed
	Purity 99%				+/-	133.2045	µg/mL	Stressed
45	m-Xylene		1,250.4	µg/mL	+/-	7.2698	µg/mL	Gravimetric
	CAS # 108-38-3.SEC	(Lot OUKMG-GB)			+/-	66.5422	µg/mL	Unstressed
	Purity 99%				+/-	66.6156	µg/mL	Stressed
46	o-Xylene		2,501.3	µg/mL	+/-	14.5425	µg/mL	Gravimetric
	CAS # 95-47-6.SEC	(Lot FGL01-KTPK)			+/-	133.1110	µg/mL	Unstressed
	Purity 99%				+/-	133.2578	µg/mL	Stressed
47	p-Xylene		1,251.6	µg/mL	+/-	7.2771	µg/mL	Gravimetric
	CAS # 106-42-3.SEC	(Lot GM01)			+/-	66.6087	µg/mL	Unstressed
	Purity 99%				+/-	66.6822	µg/mL	Stressed
48	Styrene		2,500.9	µg/mL	+/-	14.5403	µg/mL	Gravimetric
	CAS # 100-42-5.SEC	(Lot OFIOL-IA)			+/-	133.0911	µg/mL	Unstressed
	Purity 99%				+/-	133.2378	µg/mL	Stressed
49	Isopropylbenzene (cumene)		2,501.3	µg/mL	+/-	14.5425	µg/mL	Gravimetric
	CAS # 98-82-8.SEC	(Lot 2PHXG-IH)			+/-	133.1110	µg/mL	Unstressed
	Purity 99%				+/-	133.2578	µg/mL	Stressed
50	Bromoform		2,501.5	µg/mL	+/-	14.5439	µg/mL	Gravimetric
	CAS # 75-25-2.SEC	(Lot 1039300)			+/-	133.1243	µg/mL	Unstressed
	Purity 99%				+/-	133.2711	µg/mL	Stressed
51	1,1,2,2-Tetrachloroethane		2,502.9	µg/mL	+/-	14.5519	µg/mL	Gravimetric
	CAS # 79-34-5.SEC	(Lot CFA4D-AQ)			+/-	133.1975	µg/mL	Unstressed
	Purity 99%				+/-	133.3444	µg/mL	Stressed
52	Chloroform		2,501.6	µg/mL	+/-	14.5447	µg/mL	Gravimetric
	CAS # 67-66-3.SEC	(Lot 1297547)			+/-	133.1310	µg/mL	Unstressed
	Purity 99%				+/-	133.2778	µg/mL	Stressed
53	1,2,3-Trichloropropane		2,501.9	µg/mL	+/-	14.5465	µg/mL	Gravimetric
	CAS # 96-18-4.SEC	(Lot OGI01)			+/-	133.1477	µg/mL	Unstressed
	Purity 98%				+/-	133.2946	µg/mL	Stressed
54	trans-1,4-Dichloro-2-butene		2,502.7	µg/mL	+/-	14.5510	µg/mL	Gravimetric
	CAS # 110-57-6.SEC	(Lot 100700-2)			+/-	133.1893	µg/mL	Unstressed
	Purity 97%				+/-	133.3362	µg/mL	Stressed
55	n-Propylbenzene		2,500.0	µg/mL	+/-	14.5352	µg/mL	Gravimetric
	CAS # 103-65-1.SEC	(Lot T2HFC-IT)			+/-	133.0445	µg/mL	Unstressed
	Purity 99%				+/-	133.1912	µg/mL	Stressed

56	Bromobenzene **CAS #** 108-86-1.SEC **Purity** 99%	(Lot 2FUHG-EM)	2,501.6 µg/mL	+/- 14.5447 +/- 133.1310 +/- 133.2778	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
57	1,2,4-Trimethylbenzene **CAS #** 95-63-6.SEC **Purity** 99%	(Lot SC7LO-QA)	2,502.4 µg/mL	+/- 14.5490 +/- 133.1709 +/- 133.3177	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
58	2-Chlorotoluene **CAS #** 95-49-8.SEC **Purity** 99%	(Lot SW8QG-AO)	2,500.5 µg/mL	+/- 14.5381 +/- 133.0711 +/- 133.2178	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
59	4-Chlorotoluene **CAS #** 106-43-4.SEC **Purity** 99%	(Lot P4XHJ-AO)	2,500.3 µg/mL	+/- 14.5367 +/- 133.0578 +/- 133.2045	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
60	tert-Butylbenzene **CAS #** 98-06-6.SEC **Purity** 99%	(Lot OGN01)	2,501.6 µg/mL	+/- 14.5447 +/- 133.1310 +/- 133.2778	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
61	1,3,5-Trimethylbenzene **CAS #** 108-67-8.SEC **Purity** 99%	(Lot FGH02-CMLN)	2,500.3 µg/mL	+/- 14.5367 +/- 133.0578 +/- 133.2045	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
62	sec-Butylbenzene **CAS #** 135-98-8.SEC **Purity** 99%	(Lot OGN01)	2,500.1 µg/mL	+/- 14.5359 +/- 133.0511 +/- 133.1979	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
63	4-Isopropyltoluene (p-cymene) **CAS #** 99-87-6.SEC **Purity** 99%	(Lot 1721700)	2,501.6 µg/mL	+/- 14.5447 +/- 133.1310 +/- 133.2778	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
64	1,3-Dichlorobenzene **CAS #** 541-73-1.SEC **Purity** 99%	(Lot FMDFD-KA)	2,501.5 µg/mL	+/- 14.5439 +/- 133.1243 +/- 133.2711	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
65	1,4-Dichlorobenzene **CAS #** 106-46-7.SEC **Purity** 99%	(Lot YWKDC-MK)	2,500.3 µg/mL	+/- 14.5367 +/- 133.0578 +/- 133.2045	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
66	n-Butylbenzene **CAS #** 104-51-8.SEC **Purity** 99%	(Lot OGN01)	2,500.6 µg/mL	+/- 14.5388 +/- 133.0777 +/- 133.2245	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
67	1,2-Dichlorobenzene **CAS #** 95-50-1.SEC **Purity** 99%	(Lot 4NRGF-OT)	2,500.0 µg/mL	+/- 14.5352 +/- 133.0445 +/- 133.1912	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
68	1,2-Dibromo-3-chloropropane **CAS #** 96-12-8.SEC **Purity** 97%	(Lot LC00408V)	2,500.5 µg/mL	+/- 14.5383 +/- 133.0732 +/- 133.2199	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
69	1,2,4-Trichlorobenzene **CAS #** 120-82-1.SEC **Purity** 99%	(Lot OGO01)	2,501.0 µg/mL	+/- 14.5410 +/- 133.0977 +/- 133.2445	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
70	Hexachlorobutadiene **CAS #** 87-68-3.SEC **Purity** 97%	(Lot 2009400)	2,501.0 µg/mL	+/- 14.5412 +/- 133.0990 +/- 133.2458	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
71	Naphthalene **CAS #** 91-20-3.SEC **Purity** 99%	(Lot 4KW3H-OO)	2,500.5 µg/mL	+/- 14.5381 +/- 133.0711 +/- 133.2178	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

72	1,2,3-Trichlorobenzene		2,502.4	µg/mL	+/-	14.5490	µg/mL	Gravimetric
	CAS # 87-61-6.SEC	(Lot A0043055)			+/-	133.1709	µg/mL	Unstressed
	Purity 99%				+/-	133.3177	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:
60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

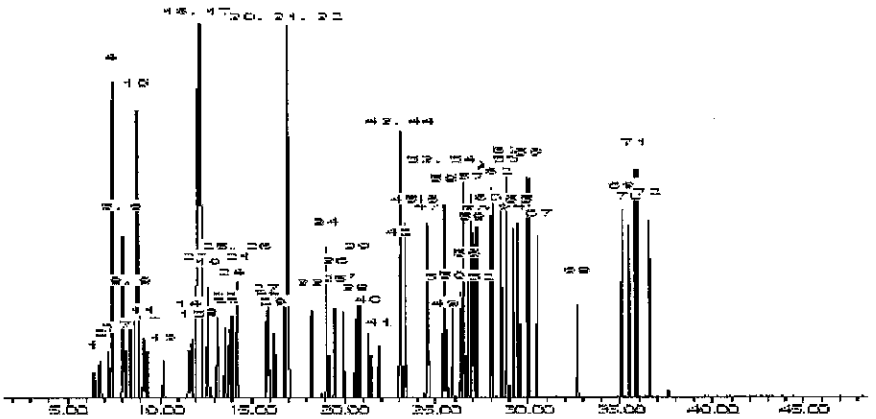
Carrier Gas:
helium-constant pressure 30 psi

Temp. Program:
40°C (hold 6 min.) to 240°C
@ 6°C/min. (hold 10 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Michael J Maye

Tyler Brown - QA Analyst

Date Mixed: 07-Jan-2015 **Balance:** 1127510105

Date Passed: 14-Jan-2015

Manufactured under Restek's ISO 9001:2008 Registered Quality System Certificate #FM 80397

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Certificate of Analysis

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 567650 **Lot No.:** A0100424

Description : 8260 Surrogate Standard

8260 Surrogate Standard 2,500 ug/ml, P&T Methanol, 5 ml/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : January 31, 2019 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Dibromofluoromethane **CAS #** 1868-53-7 (Lot 022012) **Purity** 99%	2,502.2 µg/mL	+/- 14.5480 µg/mL +/- 28.2159 µg/mL +/- 32.4683 µg/mL	Gravimetric Unstressed Stressed
2	1,2-Dichloroethane-d4 **CAS #** 17060-07-0 (Lot 12K-027) **Purity** 99%	2,501.2 µg/mL	+/- 14.5422 µg/mL +/- 28.2046 µg/mL +/- 32.4554 µg/mL	Gravimetric Unstressed Stressed
3	Toluene-d8 **CAS #** 2037-26-5 (Lot 13I-050) **Purity** 99%	2,500.8 µg/mL	+/- 14.5399 µg/mL +/- 28.2001 µg/mL +/- 32.4502 µg/mL	Gravimetric Unstressed Stressed
4	1-Bromo-4-fluorobenzene (BFB) **CAS #** 460-00-4 (Lot 01127COV) **Purity** 99%	2,501.4 µg/mL	+/- 14.5434 µg/mL +/- 28.2069 µg/mL +/- 32.4580 µg/mL	Gravimetric Unstressed Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Reagent

VOA8260SURRES_00067

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 567650 **Lot No.:** A0100424

Description : 8260 Surrogate Standard

8260 Surrogate Standard 2,500 ug/ml, P&T Methanol, 5 ml/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : January 31, 2019 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Dibromofluoromethane	2,502.2 µg/mL	+/- 14.5480	µg/mL	Gravimetric
	CAS # 1868-53-7 (Lot 022012)		+/- 28.2159	µg/mL	Unstressed
	Purity 99%		+/- 32.4683	µg/mL	Stressed
2	1,2-Dichloroethane-d4	2,501.2 µg/mL	+/- 14.5422	µg/mL	Gravimetric
	CAS # 17060-07-0 (Lot 12K-027)		+/- 28.2046	µg/mL	Unstressed
	Purity 99%		+/- 32.4554	µg/mL	Stressed
3	Toluene-d8	2,500.8 µg/mL	+/- 14.5399	µg/mL	Gravimetric
	CAS # 2037-26-5 (Lot 13I-050)		+/- 28.2001	µg/mL	Unstressed
	Purity 99%		+/- 32.4502	µg/mL	Stressed
4	1-Bromo-4-fluorobenzene (BFB)	2,501.4 µg/mL	+/- 14.5434	µg/mL	Gravimetric
	CAS # 460-00-4 (Lot 01127COV)		+/- 28.2069	µg/mL	Unstressed
	Purity 99%		+/- 32.4580	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Reagent

VOA8260SURRES_00077

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 567650 **Lot No.:** A0101000

Description : 8260 Surrogate Standard

8260 Surrogate Standard 2,500 ug/ml, P&T Methanol, 5 ml/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : January 31, 2019 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Dibromofluoromethane **CAS #** 1868-53-7 (Lot 022012) **Purity** 99%	2,509.6 µg/mL	+/- 14.5910 µg/mL +/- 28.2993 µg/mL +/- 32.5644 µg/mL	Gravimetric Unstressed Stressed
2	1,2-Dichloroethane-d4 **CAS #** 17060-07-0 (Lot 12K-027) **Purity** 99%	2,508.2 µg/mL	+/- 14.5829 µg/mL +/- 28.2836 µg/mL +/- 32.5462 µg/mL	Gravimetric Unstressed Stressed
3	Toluene-d8 **CAS #** 2037-26-5 (Lot 13I-050) **Purity** 99%	2,508.8 µg/mL	+/- 14.5864 µg/mL +/- 28.2903 µg/mL +/- 32.5540 µg/mL	Gravimetric Unstressed Stressed
4	1-Bromo-4-fluorobenzene (BFB) **CAS #** 460-00-4 (Lot 01127COV) **Purity** 99%	2,509.8 µg/mL	+/- 14.5922 µg/mL +/- 28.3016 µg/mL +/- 32.5670 µg/mL	Gravimetric Unstressed Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Reagent

VOA8260VARES_00054

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 569724 **Lot No.:** A0109190

Description : 8260 List 1 / Std #6 Vinyl Acetate (2015)

8260 List 1 / Std #6 Vinyl Acetate (2015) 5000 ug/ml, P&T Methanol, 1 ml/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : August 31, 2015 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Vinyl acetate **CAS #** 108-05-4 (Lot STBC8935V) **Purity** 99%	5,023.0 µg/mL	+/- 29.4778 µg/mL +/- 267.3430 µg/mL +/- 267.6378 µg/mL	Gravimetric Unstressed Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:
Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods. Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Reagent

VOA8260VARES_00055

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 569724 **Lot No.:** A0109190

Description : 8260 List 1 / Std #6 Vinyl Acetate (2015)

8260 List 1 / Std #6 Vinyl Acetate (2015) 5000 ug/ml, P&T Methanol, 1 ml/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : August 31, 2015 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Vinyl acetate	5,023.0 µg/mL	+/- 29.4778	µg/mL	Gravimetric
	CAS # 108-05-4 (Lot STBC8935V)		+/- 267.3430	µg/mL	Unstressed
	Purity 99%		+/- 267.6378	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:
Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods. Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Reagent

VOAACRORES_00077

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 568720 **Lot No.:** A0111006

Description : 8260 List 1/Std #5 Acrolein High

8260 List 1/Std #5 Acrolein High 19,750 µg/mL, Water, 1 mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2015 **Storage:** 10°C or colder

Handling: This product is photosensitive.

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Acrolein		19,748.0 µg/mL	+/- 115.8923 µg/mL		Gravimetric
	CAS # 107-02-8	(Lot 150115JLM)		+/- 633.2311 µg/mL		Unstressed
	Purity 99%			+/- 736.0474 µg/mL		Stressed

Solvent: Water
CAS # 7732-18-5
Purity 99%

Reagent

VOAACRRES2ND_00065

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 568720.sec **Lot No.:** A0111005

Description : 8260 List 1/Std #5 Acrolein High

8260 List 1/Std #5 Acrolein High 19,750 µg/ml, Water, 1 ml/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2015 **Storage:** 10°C or colder

Handling: This product is photosensitive.

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Acrolein	19,749.2 µg/mL	+/- 115.6359	µg/mL	Gravimetric
	CAS # 107-02-8.SEC (Lot 3593700)		+/- 633.2214	µg/mL	Unstressed
	Purity 97%		+/- 736.0506	µg/mL	Stressed

Solvent: Water
CAS # 7732-18-5
Purity 99%

Reagent

VOARESEE1ST_00021

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Certificate #3222.01

Certificate of Analysis

ilac-MRA

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 568363-FL **Lot No.:** A0109701

Description : Custom EE Standard

Custom EE Standard 5,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2016 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	3-Chlorobenzotrifluoride **CAS #** 98-15-7 **Purity** 99%	(Lot 21324DO)	5,000.0 µg/mL	+/- 29.3428 +/- 56.5231 +/- 65.0021	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
2	4-Chlorobenzotrifluoride **CAS #** 98-56-6 **Purity** 99%	(Lot 08507BO)	5,003.0 µg/mL	+/- 29.3604 +/- 56.5570 +/- 65.0411	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
3	2-Chlorobenzotrifluoride **CAS #** 88-16-4 **Purity** 99%	(Lot I0316DQ)	5,009.0 µg/mL	+/- 29.3956 +/- 56.6248 +/- 65.1191	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
4	3-Chlorotoluene **CAS #** 108-41-8 **Purity** 99%	(Lot 13528LX)	5,012.0 µg/mL	+/- 29.4132 +/- 56.6587 +/- 65.1581	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
5	2,4-Dichlorobenzotrifluoride **CAS #** 320-60-5 **Purity** 99%	(Lot MKBL3552V)	5,013.0 µg/mL	+/- 29.4191 +/- 56.6701 +/- 65.1711	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
6	3,4-Dichlorobenzotrifluoride **CAS #** 328-84-7 **Purity** 99%	(Lot 11105EJV)	5,018.0 µg/mL	+/- 29.4484 +/- 56.7266 +/- 65.2361	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
7	2,5-Dichlorobenzotrifluoride **CAS #** 320-50-3 **Purity** 99%	(Lot 04415DSV)	5,015.0 µg/mL	+/- 29.4308 +/- 56.6927 +/- 65.1971	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

8	2,4-Dichlorotoluene		5,021.0	µg/mL	+/-	29.4660	µg/mL	Gravimetric
	CAS # 95-73-8	(Lot 07715JS)			+/-	56.7605	µg/mL	Unstressed
	Purity 99%				+/-	65.2751	µg/mL	Stressed
9	2,5-Dichlorotoluene		5,005.0	µg/mL	+/-	29.3721	µg/mL	Gravimetric
	CAS # 19398-61-9	(Lot 1381346V)			+/-	56.5796	µg/mL	Unstressed
	Purity 99%				+/-	65.0671	µg/mL	Stressed
10	2,6-Dichlorotoluene		5,014.0	µg/mL	+/-	29.4250	µg/mL	Gravimetric
	CAS # 118-69-4	(Lot 16921JS)			+/-	56.6814	µg/mL	Unstressed
	Purity 99%				+/-	65.1841	µg/mL	Stressed
11	3,4-Dichlorotoluene		5,011.0	µg/mL	+/-	29.4074	µg/mL	Gravimetric
	CAS # 95-75-0	(Lot 09419AS)			+/-	56.6474	µg/mL	Unstressed
	Purity 99%				+/-	65.1451	µg/mL	Stressed
12	2,3-Dichlorotoluene		5,016.0	µg/mL	+/-	29.4367	µg/mL	Gravimetric
	CAS # 32768-54-0	(Lot 00317)			+/-	56.7040	µg/mL	Unstressed
	Purity 99%				+/-	65.2101	µg/mL	Stressed
13	2,4,5-Trichlorotoluene		5,000.0	µg/mL	+/-	29.3428	µg/mL	Gravimetric
	CAS # 6639-30-1	(Lot 2490300)			+/-	56.5231	µg/mL	Unstressed
	Purity 99%				+/-	65.0021	µg/mL	Stressed
14	2,3,6-Trichlorotoluene		5,005.0	µg/mL	+/-	29.3721	µg/mL	Gravimetric
	CAS # 2077-46-5	(Lot NT050444)			+/-	56.5796	µg/mL	Unstressed
	Purity 99%				+/-	65.0671	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Reagent

VOARESEE1ST_00025

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

ACCREDITED
ISO Guide 34 Accredited
Reference Material Producer
Certificate #3222.01

Certificate of Analysis

ilac-MRA

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

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Custom EE Standard 5,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2016 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	3-Chlorobenzotrifluoride **CAS #** 98-15-7 **Purity** 99%	(Lot 21324DO)	5,000.0 µg/mL	+/- 29.3428 +/- 56.5231 +/- 65.0021	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
2	4-Chlorobenzotrifluoride **CAS #** 98-56-6 **Purity** 99%	(Lot 08507BO)	5,003.0 µg/mL	+/- 29.3604 +/- 56.5570 +/- 65.0411	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
3	2-Chlorobenzotrifluoride **CAS #** 88-16-4 **Purity** 99%	(Lot I0316DQ)	5,009.0 µg/mL	+/- 29.3956 +/- 56.6248 +/- 65.1191	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
4	3-Chlorotoluene **CAS #** 108-41-8 **Purity** 99%	(Lot 13528LX)	5,012.0 µg/mL	+/- 29.4132 +/- 56.6587 +/- 65.1581	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
5	2,4-Dichlorobenzotrifluoride **CAS #** 320-60-5 **Purity** 99%	(Lot MKBL3552V)	5,013.0 µg/mL	+/- 29.4191 +/- 56.6701 +/- 65.1711	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
6	3,4-Dichlorobenzotrifluoride **CAS #** 328-84-7 **Purity** 99%	(Lot 11105EJV)	5,018.0 µg/mL	+/- 29.4484 +/- 56.7266 +/- 65.2361	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
7	2,5-Dichlorobenzotrifluoride **CAS #** 320-50-3 **Purity** 99%	(Lot 04415DSV)	5,015.0 µg/mL	+/- 29.4308 +/- 56.6927 +/- 65.1971	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

8	2,4-Dichlorotoluene		5,021.0	µg/mL	+/-	29.4660	µg/mL	Gravimetric
	CAS # 95-73-8	(Lot 07715JS)			+/-	56.7605	µg/mL	Unstressed
	Purity 99%				+/-	65.2751	µg/mL	Stressed
9	2,5-Dichlorotoluene		5,005.0	µg/mL	+/-	29.3721	µg/mL	Gravimetric
	CAS # 19398-61-9	(Lot 1381346V)			+/-	56.5796	µg/mL	Unstressed
	Purity 99%				+/-	65.0671	µg/mL	Stressed
10	2,6-Dichlorotoluene		5,014.0	µg/mL	+/-	29.4250	µg/mL	Gravimetric
	CAS # 118-69-4	(Lot 16921JS)			+/-	56.6814	µg/mL	Unstressed
	Purity 99%				+/-	65.1841	µg/mL	Stressed
11	3,4-Dichlorotoluene		5,011.0	µg/mL	+/-	29.4074	µg/mL	Gravimetric
	CAS # 95-75-0	(Lot 09419AS)			+/-	56.6474	µg/mL	Unstressed
	Purity 99%				+/-	65.1451	µg/mL	Stressed
12	2,3-Dichlorotoluene		5,016.0	µg/mL	+/-	29.4367	µg/mL	Gravimetric
	CAS # 32768-54-0	(Lot 00317)			+/-	56.7040	µg/mL	Unstressed
	Purity 99%				+/-	65.2101	µg/mL	Stressed
13	2,4,5-Trichlorotoluene		5,000.0	µg/mL	+/-	29.3428	µg/mL	Gravimetric
	CAS # 6639-30-1	(Lot 2490300)			+/-	56.5231	µg/mL	Unstressed
	Purity 99%				+/-	65.0021	µg/mL	Stressed
14	2,3,6-Trichlorotoluene		5,005.0	µg/mL	+/-	29.3721	µg/mL	Gravimetric
	CAS # 2077-46-5	(Lot NT050444)			+/-	56.5796	µg/mL	Unstressed
	Purity 99%				+/-	65.0671	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Method 8260C Low Level

Volatile Organic Compounds (GC/MS) by Method 8260C Low Level

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48309-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): DB-624 ID: 0.18(mm)

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TOL #	BFB #
HD-MW-87-0/1-0	180-48309-1	102	91	93	91
HD-MW-143S-0/1-0	180-48309-2	107	104	104	87
HD-MW-143D-0/1-0	180-48309-3	104	106	101	86
HD-MW-20M-0/1-0	180-48309-4	106	108	108	91
HD-MW-92-0/1-0	180-48309-5	111	104	103	85
HD-MW-92-0/1-0 DL	180-48309-5 DL	101	95	89	88
HD-MW-64D-0/1-0	180-48309-6	112	100	87	86
HD-MW-64D-0/1-0 DL	180-48309-6 DL	110	106	98	83
HD-QC12-0/1-2	180-48309-7	106	105	109	91
	MB 180-156189/5	101	101	102	86
	MB 180-156309/6	100	90	91	92
	LCS 180-156189/8	98	98	106	91
	LCS 180-156309/9	103	90	102	96

	QC LIMITS
DBFM = Dibromofluoromethane (Surr)	70-128
DCA = 1,2-Dichloroethane-d4 (Surr)	64-135
TOL = Toluene-d8 (Surr)	71-118
BFB = 4-Bromofluorobenzene (Surr)	70-118

Column to be used to flag recovery values

FORM II 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48309-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 61007008.D

Lab ID: LCS 180-156189/8 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Chloromethane	10.0	11.3	113	50-139	
Vinyl chloride	10.0	9.97	100	53-138	
Bromomethane	10.0	8.04	80	33-150	
Chloroethane	10.0	8.97	90	36-142	
1,1-Dichloroethene	10.0	8.60	86	65-136	
Acetone	20.0	20.8	104	22-150	
Carbon disulfide	10.0	8.38	84	54-132	
Methylene Chloride	10.0	8.72	87	63-129	
trans-1,2-Dichloroethene	10.0	8.87	89	73-126	
Methyl tert-butyl ether	10.0	8.96	90	64-123	
1,1-Dichloroethane	10.0	9.57	96	73-126	
cis-1,2-Dichloroethene	10.0	8.99	90	70-120	
Bromochloromethane	10.0	10.0	100	70-127	
2-Butanone (MEK)	20.0	24.0	120	39-138	
Chloroform	10.0	8.87	89	72-127	
1,1,1-Trichloroethane	10.0	8.02	80	63-133	
Carbon tetrachloride	10.0	8.84	88	55-150	
Benzene	10.0	9.97	100	80-120	
1,2-Dichloroethane	10.0	9.18	92	68-132	
Trichloroethene	10.0	10.4	104	73-120	
1,2-Dichloropropane	10.0	10.7	107	76-124	
Bromodichloromethane	10.0	9.15	92	66-130	
cis-1,3-Dichloropropene	10.0	9.63	96	66-120	
4-Methyl-2-pentanone (MIBK)	20.0	20.8	104	45-145	
Toluene	10.0	10.1	101	80-123	
trans-1,3-Dichloropropene	10.0	8.94	89	65-125	
1,1,2-Trichloroethane	10.0	9.90	99	77-127	
Tetrachloroethene	10.0	10.2	102	70-135	
2-Hexanone	20.0	20.7	103	25-132	
Dibromochloromethane	10.0	9.99	100	60-140	
1,2-Dibromoethane (EDB)	10.0	10.2	102	74-123	
Chlorobenzene	10.0	10.2	102	80-120	
1,1,1,2-Tetrachloroethane	10.0	10.2	102	63-140	
Ethylbenzene	10.0	9.50	95	72-126	
Xylenes, Total	20.0	19.1	95	76-128	
Styrene	10.0	10.5	105	71-127	
Bromoform	10.0	10.8	108	46-150	
1,1,2,2-Tetrachloroethane	10.0	9.90	99	62-125	
Acrylonitrile	100	125	125	30-140	
1,4-Dioxane	200	223	111	10-160	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48309-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 51008009.D

Lab ID: LCS 180-156309/9 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Chloromethane	10.0	9.02	90	50-139	
Vinyl chloride	10.0	7.57	76	53-138	
Bromomethane	10.0	8.60	86	33-150	
Chloroethane	10.0	6.91	69	36-142	
1,1-Dichloroethene	10.0	9.25	92	65-136	
Acetone	20.0	20.6	103	22-150	
Carbon disulfide	10.0	8.90	89	54-132	
Methylene Chloride	10.0	9.77	98	63-129	
trans-1,2-Dichloroethene	10.0	9.37	94	73-126	
Methyl tert-butyl ether	10.0	9.47	95	64-123	
1,1-Dichloroethane	10.0	8.74	87	73-126	
cis-1,2-Dichloroethene	10.0	9.22	92	70-120	
Bromochloromethane	10.0	10.7	107	70-127	
2-Butanone (MEK)	20.0	21.8	109	39-138	
Chloroform	10.0	9.19	92	72-127	
1,1,1-Trichloroethane	10.0	9.09	91	63-133	
Carbon tetrachloride	10.0	9.75	97	55-150	
Benzene	10.0	9.47	95	80-120	
1,2-Dichloroethane	10.0	8.97	90	68-132	
Trichloroethene	10.0	10.3	103	73-120	
1,2-Dichloropropane	10.0	9.63	96	76-124	
Bromodichloromethane	10.0	9.29	93	66-130	
cis-1,3-Dichloropropene	10.0	8.92	89	66-120	
4-Methyl-2-pentanone (MIBK)	20.0	19.5	98	45-145	
Toluene	10.0	10.0	100	80-123	
trans-1,3-Dichloropropene	10.0	8.85	89	65-125	
1,1,2-Trichloroethane	10.0	10.1	101	77-127	
Tetrachloroethene	10.0	10.7	107	70-135	
2-Hexanone	20.0	18.9	95	25-132	
Dibromochloromethane	10.0	10.7	107	60-140	
1,2-Dibromoethane (EDB)	10.0	10.5	105	74-123	
Chlorobenzene	10.0	10.4	104	80-120	
1,1,1,2-Tetrachloroethane	10.0	10.2	102	63-140	
Ethylbenzene	10.0	10.2	102	72-126	
Xylenes, Total	20.0	21.0	105	76-128	
Styrene	10.0	11.1	111	71-127	
Bromoform	10.0	11.0	110	46-150	
1,1,2,2-Tetrachloroethane	10.0	10.2	102	62-125	
Acrylonitrile	100	102	102	30-140	
1,4-Dioxane	200	258	129	10-160	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48309-1

SDG No.:

Lab File ID: 61007005.D Lab Sample ID: MB 180-156189/5

Matrix: Water Heated Purge:(Y/N) N

Instrument ID: CHHP6 Date Analyzed: 10/07/2015 14:07

GC Column: DB-624 ID: 0.18(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 180-156189/8	61007008.D	10/07/2015 15:36
HD-QC12-0/1-2	180-48309-7	61007018.D	10/07/2015 19:39
HD-MW-143S-0/1-0	180-48309-2	61007019.D	10/07/2015 20:03
HD-MW-143D-0/1-0	180-48309-3	61007020.D	10/07/2015 20:27
HD-MW-20M-0/1-0	180-48309-4	61007021.D	10/07/2015 20:51
HD-MW-64D-0/1-0 DL	180-48309-6 DL	61007022.D	10/07/2015 21:15
HD-MW-92-0/1-0	180-48309-5	61007028.D	10/07/2015 23:42

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48309-1

SDG No.:

Lab File ID: 51008006.D Lab Sample ID: MB 180-156309/6

Matrix: Water Heated Purge:(Y/N) N

Instrument ID: CHHP5 Date Analyzed: 10/08/2015 13:21

GC Column: DB-624 ID: 0.18(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 180-156309/9	51008009.D	10/08/2015 14:48
HD-MW-87-0/1-0	180-48309-1	51008013.D	10/08/2015 16:24
HD-MW-92-0/1-0 DL	180-48309-5 DL	51008014.D	10/08/2015 16:48
HD-MW-64D-0/1-0	180-48309-6	51008029.D	10/08/2015 22:50

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Pittsburgh Job No.: 180-48309-1

SDG No.:

Lab File ID: 50826007.D BFB Injection Date: 08/26/2015

Instrument ID: CHHP5 BFB Injection Time: 14:01

Analysis Batch No.: 151868

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	23.5	
75	30.0 - 60.0 % of mass 95	49.7	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.6	
173	Less than 2.0 % of mass 174	0.4	(0.5) 1
174	50.0 - 120.00 % of mass 95	77.9	
175	5.0 - 9.0 % of mass 174	6.1	(7.9) 1
176	95.0 - 101.0 % of mass 174	75.2	(96.6) 1
177	5.0 - 9.0 % of mass 176	4.9	(6.6) 2

1-Value is % mass 174 2-Value is % mass 176

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 180-151868/6	50826006.D	08/26/2015	15:04
	IC 180-151868/8	50826008.D	08/26/2015	15:28
	ICIS 180-151868/9	50826009.D	08/26/2015	15:52
	IC 180-151868/10	50826010.D	08/26/2015	16:16
	IC 180-151868/11	50826011.D	08/26/2015	16:40
	IC 180-151868/12	50826012.D	08/26/2015	17:04
	IC 180-151868/13	50826013.D	08/26/2015	17:28
	IC 180-151868/14	50826014.D	08/26/2015	17:52

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Pittsburgh Job No.: 180-48309-1

SDG No.:

Lab File ID: 51008004.D BFB Injection Date: 10/08/2015

Instrument ID: CHHP5 BFB Injection Time: 11:00

Analysis Batch No.: 156309

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	22.8	
75	30.0 - 60.0 % of mass 95	45.7	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.7	
173	Less than 2.0 % of mass 174	0.8	(1.0) 1
174	50.0 - 120.00 % of mass 95	80.6	
175	5.0 - 9.0 % of mass 174	7.3	(9.0) 1
176	95.0 - 101.0 % of mass 174	76.8	(95.3) 1
177	5.0 - 9.0 % of mass 176	5.2	(6.7) 2

1-Value is % mass 174 2-Value is % mass 176

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 180-156309/5	51008005.D	10/08/2015	12:33
	MB 180-156309/6	51008006.D	10/08/2015	13:21
	LCS 180-156309/9	51008009.D	10/08/2015	14:48
HD-MW-87-0/1-0	180-48309-1	51008013.D	10/08/2015	16:24
HD-MW-92-0/1-0 DL	180-48309-5 DL	51008014.D	10/08/2015	16:48
HD-MW-64D-0/1-0	180-48309-6	51008029.D	10/08/2015	22:50

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Pittsburgh Job No.: 180-48309-1

SDG No.:

Lab File ID: 60731001.D BFB Injection Date: 07/31/2015

Instrument ID: CHHP6 BFB Injection Time: 12:10

Analysis Batch No.: 149469

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	21.4	
75	30.0 - 60.0 % of mass 95	56.4	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.8	
173	Less than 2.0 % of mass 174	0.2	(0.3) 1
174	50.0 - 120.00 % of mass 95	62.3	
175	5.0 - 9.0 % of mass 174	4.7	(7.5) 1
176	95.0 - 101.0 % of mass 174	62.6	(100.6) 1
177	5.0 - 9.0 % of mass 176	4.2	(6.7) 2

1-Value is % mass 174 2-Value is % mass 176

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 180-149469/4	60731004.D	07/31/2015	14:00
	ICIS 180-149469/5	60731005.D	07/31/2015	14:24
	IC 180-149469/6	60731006.D	07/31/2015	14:49
	IC 180-149469/7	60731007.D	07/31/2015	15:13
	IC 180-149469/8	60731008.D	07/31/2015	15:37
	IC 180-149469/9	60731009.D	07/31/2015	16:01
	IC 180-149469/10	60731010.D	07/31/2015	16:25
	IC 180-149469/14	60731014.D	07/31/2015	18:02

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Pittsburgh Job No.: 180-48309-1

SDG No.:

Lab File ID: 61007004.D BFB Injection Date: 10/07/2015

Instrument ID: CHHP6 BFB Injection Time: 11:51

Analysis Batch No.: 156189

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	22.4	
75	30.0 - 60.0 % of mass 95	58.7	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.9	
173	Less than 2.0 % of mass 174	0.4	(0.5) 1
174	50.0 - 120.00 % of mass 95	77.0	
175	5.0 - 9.0 % of mass 174	5.9	(7.6) 1
176	95.0 - 101.0 % of mass 174	73.6	(95.6) 1
177	5.0 - 9.0 % of mass 176	5.6	(7.7) 2

1-Value is % mass 174 2-Value is % mass 176

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 180-156189/2	61007002.D	10/07/2015	12:51
	MB 180-156189/5	61007005.D	10/07/2015	14:07
	LCS 180-156189/8	61007008.D	10/07/2015	15:36
HD-QC12-0/1-2	180-48309-7	61007018.D	10/07/2015	19:39
HD-MW-143S-0/1-0	180-48309-2	61007019.D	10/07/2015	20:03
HD-MW-143D-0/1-0	180-48309-3	61007020.D	10/07/2015	20:27
HD-MW-20M-0/1-0	180-48309-4	61007021.D	10/07/2015	20:51
HD-MW-64D-0/1-0 DL	180-48309-6 DL	61007022.D	10/07/2015	21:15
HD-MW-92-0/1-0	180-48309-5	61007028.D	10/07/2015	23:42

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48309-1

SDG No.:

Sample No.: CCVIS 180-156309/5 Date Analyzed: 10/08/2015 12:33

Instrument ID: CHHP5 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): 51008005.D Heated Purge: (Y/N) N

Calibration ID: 25113

		TBA		FB		CBZ	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		123647	4.27	342398	7.29	85766	10.39
UPPER LIMIT		247294	4.77	684796	7.79	171532	10.89
LOWER LIMIT		61824	3.77	171199	6.79	42883	9.89
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 180-156309/6		152547	4.27	310216	7.29	82365	10.39
LCS 180-156309/9		127184	4.28	319307	7.29	80373	10.39
180-48309-1	HD-MW-87-0/1-0	137267	4.27	293773	7.29	76350	10.39
180-48309-5 DL	HD-MW-92-0/1-0 DL	148224	4.27	289635	7.30	77004	10.39
180-48309-6	HD-MW-64D-0/1-0	137187	4.26	256752	7.29	73999	10.39

TBA = TBA-d9 (IS)
FB = Fluorobenzene (IS)
CBZ = Chlorobenzene-d5

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260C

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48309-1

SDG No.:

Sample No.: CCVIS 180-156309/5 Date Analyzed: 10/08/2015 12:33

Instrument ID: CHHP5 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): 51008005.D Heated Purge: (Y/N) N

Calibration ID: 25113

		DCB					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		125555	12.73				
UPPER LIMIT		251110	13.23				
LOWER LIMIT		62778	12.23				
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 180-156309/6		126878	12.73				
LCS 180-156309/9		122270	12.73				
180-48309-1	HD-MW-87-0/1-0	114000	12.73				
180-48309-5 DL	HD-MW-92-0/1-0 DL	114152	12.73				
180-48309-6	HD-MW-64D-0/1-0	104311	12.73				

DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260C

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48309-1

SDG No.:

Sample No.: CCVIS 180-156189/2 Date Analyzed: 10/07/2015 12:51

Instrument ID: CHHP6 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): 61007002.D Heated Purge: (Y/N) N

Calibration ID: 25315

		TBA		FB		CBZ	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		168577	4.25	430181	7.28	101182	10.40
UPPER LIMIT		337154	4.75	860362	7.78	202364	10.90
LOWER LIMIT		84289	3.75	215091	6.78	50591	9.90
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 180-156189/5		185013	4.22	465495	7.29	112798	10.40
LCS 180-156189/8		207975	4.25	460649	7.29	105123	10.40
180-48309-7	HD-QC12-0/1-2	191745	4.23	452546	7.29	101366	10.40
180-48309-2	HD-MW-143S-0/1-0	174732	4.24	434002	7.29	105329	10.40
180-48309-3	HD-MW-143D-0/1-0	173795	4.25	454572	7.29	106101	10.40
180-48309-4	HD-MW-20M-0/1-0	173701	4.24	441634	7.29	100924	10.40
180-48309-6 DL	HD-MW-64D-0/1-0 DL	188512	4.23	440516	7.29	109386	10.39
180-48309-5	HD-MW-92-0/1-0	173107	4.24	427278	7.29	104084	10.40

TBA = TBA-d9 (IS)
FB = Fluorobenzene (IS)
CBZ = Chlorobenzene-d5

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260C

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48309-1

SDG No.:

Sample No.: CCVIS 180-156189/2 Date Analyzed: 10/07/2015 12:51

Instrument ID: CHHP6 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): 61007002.D Heated Purge: (Y/N) N

Calibration ID: 25315

		DCB					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		190331	12.75				
UPPER LIMIT		380662	13.25				
LOWER LIMIT		95166	12.25				
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 180-156189/5		182602	12.75				
LCS 180-156189/8		187985	12.75				
180-48309-7	HD-QC12-0/1-2	173799	12.75				
180-48309-2	HD-MW-143S-0/1-0	168898	12.75				
180-48309-3	HD-MW-143D-0/1-0	172179	12.75				
180-48309-4	HD-MW-20M-0/1-0	172151	12.75				
180-48309-6 DL	HD-MW-64D-0/1-0 DL	169650	12.75				
180-48309-5	HD-MW-92-0/1-0	164814	12.75				

DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260C

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-48309-1

SDG No.:

Client Sample ID: HD-MW-87-0/1-0 | Lab Sample ID: 180-48309-1

Matrix: Water | Lab File ID: 51008013.D

Analysis Method: 8260C | Date Collected: 09/30/2015 10:37

Sample wt/vol: 5(mL) | Date Analyzed: 10/08/2015 16:24

Soil Aliquot Vol: | Dilution Factor: 12.5

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 156309 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	13	U	13	3.5
75-01-4	Vinyl chloride	13	U ^c	13	2.8
74-83-9	Bromomethane	13	U ^c	13	3.9
75-00-3	Chloroethane	13	U ^c	13	2.7
75-35-4	1,1-Dichloroethene	11	J	13	3.7
67-64-1	Acetone	63	U	63	31
75-15-0	Carbon disulfide	13	U	13	2.7
75-09-2	Methylene Chloride	13	U	13	1.6
156-60-5	trans-1,2-Dichloroethene	13	U	13	2.1
1634-04-4	Methyl tert-butyl ether	13	U	13	2.3
75-34-3	1,1-Dichloroethane	4.6	J	13	1.5
156-59-2	cis-1,2-Dichloroethene	460		13	3.0
74-97-5	Bromochloromethane	13	U	13	2.3
78-93-3	2-Butanone (MEK)	63	U	63	6.8
67-66-3	Chloroform	13	U	13	2.1
71-55-6	1,1,1-Trichloroethane	9.8	J	13	3.6
56-23-5	Carbon tetrachloride	2.0	J	13	1.7
71-43-2	Benzene	13	U	13	1.3
107-06-2	1,2-Dichloroethane	13	U	13	2.6
79-01-6	Trichloroethene	390		13	1.8
78-87-5	1,2-Dichloropropane	13	U	13	1.2
75-27-4	Bromodichloromethane	13	U	13	1.6
10061-01-5	cis-1,3-Dichloropropene	13	U	13	2.3
108-10-1	4-Methyl-2-pentanone (MIBK)	63	U	63	6.6
108-88-3	Toluene	13	U	13	1.9
10061-02-6	trans-1,3-Dichloropropene	13	U	13	1.9
79-00-5	1,1,2-Trichloroethane	13	U	13	2.5
127-18-4	Tetrachloroethene	28		13	1.9
591-78-6	2-Hexanone	63	U	63	2.0
124-48-1	Dibromochloromethane	13	U	13	1.7
106-93-4	1,2-Dibromoethane (EDB)	13	U	13	2.3
108-90-7	Chlorobenzene	13	U	13	1.7
630-20-6	1,1,1,2-Tetrachloroethane	13	U	13	3.5
100-41-4	Ethylbenzene	13	U	13	2.8
1330-20-7	Xylenes, Total	38	U	38	6.1
100-42-5	Styrene	13	U	13	1.2

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-48309-1

SDG No.:

Client Sample ID: HD-MW-87-0/1-0 | Lab Sample ID: 180-48309-1

Matrix: Water | Lab File ID: 51008013.D

Analysis Method: 8260C | Date Collected: 09/30/2015 10:37

Sample wt/vol: 5(mL) | Date Analyzed: 10/08/2015 16:24

Soil Aliquot Vol: | Dilution Factor: 12.5

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 156309 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-25-2	Bromoform	13	U	13	2.4
79-34-5	1,1,2,2-Tetrachloroethane	13	U	13	2.5
107-13-1	Acrylonitrile	250	U	250	6.8
123-91-1	1,4-Dioxane	2500	U ^c	2500	430

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	91		64-135
2037-26-5	Toluene-d8 (Surr)	93		71-118
460-00-4	4-Bromofluorobenzene (Surr)	91		70-118
1868-53-7	Dibromofluoromethane (Surr)	102		70-128

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151008-8892.b\51008013.D
Lims ID: 180-48309-C-1 Lab Sample ID: 180-48309-1
Client ID: HD-MW-87-0/1-0
Sample Type: Client
Inject. Date: 08-Oct-2015 16:24:30 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 12.5000
Sample Info: 180-48309-C-1, 12.5x
Misc. Info.: 180-0008892-013
Operator ID: 001562 Instrument ID: CHHP5

Method: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151008-8892.b\MSVOA_LL_CHHP5.m
Limit Group: VOA 8260C ICAL
Last Update: 09-Oct-2015 08:29:17 Calib Date: 26-Aug-2015 17:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20150826-8300.b\50826014.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK037

First Level Reviewer: fergusond Date: 09-Oct-2015 08:29:17

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.274	4.269	0.005	0	137267	1000.0	
* 2 Fluorobenzene (IS)	96	7.291	7.286	0.005	98	293773	50.0	
* 3 Chlorobenzene-d5	119	10.388	10.389	-0.001	86	76350	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.730	12.731	-0.001	95	114000	50.0	
$ 5 Dibromofluoromethane (Surr	113	6.561	6.562	-0.001	94	73784	51.1	
$ 6 1,2-Dichloroethane-d4 (Sur	65	6.939	6.934	0.005	0	90018	45.4	
$ 7 Toluene-d8 (Surr)	98	8.940	8.935	0.005	94	275344	46.7	
$ 8 4-Bromofluorobenzene (Surr	95	11.574	11.569	0.005	93	101259	45.6	
12 Chloromethane	50		1.769				ND	
13 Vinyl chloride	62		1.909				ND	
15 Bromomethane	94		2.255				ND	
16 Chloroethane	64		2.395				ND	
22 1,1-Dichloroethene	96	3.349	3.338	0.011	93	7222	4.41	
24 Acetone	43		3.448				ND	
26 Carbon disulfide	76		3.630				ND	
31 Methylene Chloride	84		4.135				ND	
33 Acrylonitrile	53		4.525				ND	
34 trans-1,2-Dichloroethene	96	4.560	4.561	-0.001	29	1305	0.7346	
35 Methyl tert-butyl ether	73		4.573				ND	
37 1,1-Dichloroethane	63	5.199	5.200	-0.001	93	6396	1.83	
45 cis-1,2-Dichloroethene	96	5.959	5.954	0.005	81	348217	183.5	
46 2-Butanone (MEK)	43		5.960				ND	
49 Chlorobromomethane	128		6.234				ND	
52 Chloroform	83	6.379	6.380	-0.001	1	1216	0.4022	M
53 1,1,1-Trichloroethane	97	6.549	6.538	0.011	93	8736	3.91	
56 Carbon tetrachloride	117	6.720	6.715	0.005	21	1544	0.8109	
58 Benzene	78		6.946				ND	
59 1,2-Dichloroethane	62		7.025				ND	
64 Trichloroethene	130	7.681	7.676	0.005	96	276167	155.8	
67 1,2-Dichloropropane	63		7.949				ND	
70 1,4-Dioxane	88		8.029				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
71 Dichlorobromomethane	83		8.235				ND	
74 cis-1,3-Dichloropropene	75		8.673				ND	
75 4-Methyl-2-pentanone (MIBK	43		8.826				ND	
76 Toluene	91		9.002				ND	
77 trans-1,3-Dichloropropene	75		9.251				ND	
79 1,1,2-Trichloroethane	97		9.446				ND	
80 Tetrachloroethene	164	9.518	9.519	-0.001	96	16386	11.2	
82 2-Hexanone	43		9.659				ND	
84 Chlorodibromomethane	129		9.811				ND	
85 Ethylene Dibromide	107		9.927				ND	
87 Chlorobenzene	112		10.413				ND	
89 1,1,1,2-Tetrachloroethane	131		10.511				ND	
90 Ethylbenzene	106		10.517				ND	
91 m-Xylene & p-Xylene	106		10.644				ND	
92 o-Xylene	106		11.028				ND	
93 Styrene	104		11.046				ND	
94 Bromoform	173		11.235				ND	
99 1,1,2,2-Tetrachloroethane	83		11.709				ND	
S 133 Xylenes, Total	106		1.000				ND	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

VOA8260INT_00042	Amount Added:	2.00	Units: uL	Run Reagent
VOA8260SURR_00042	Amount Added:	2.00	Units: uL	Run Reagent

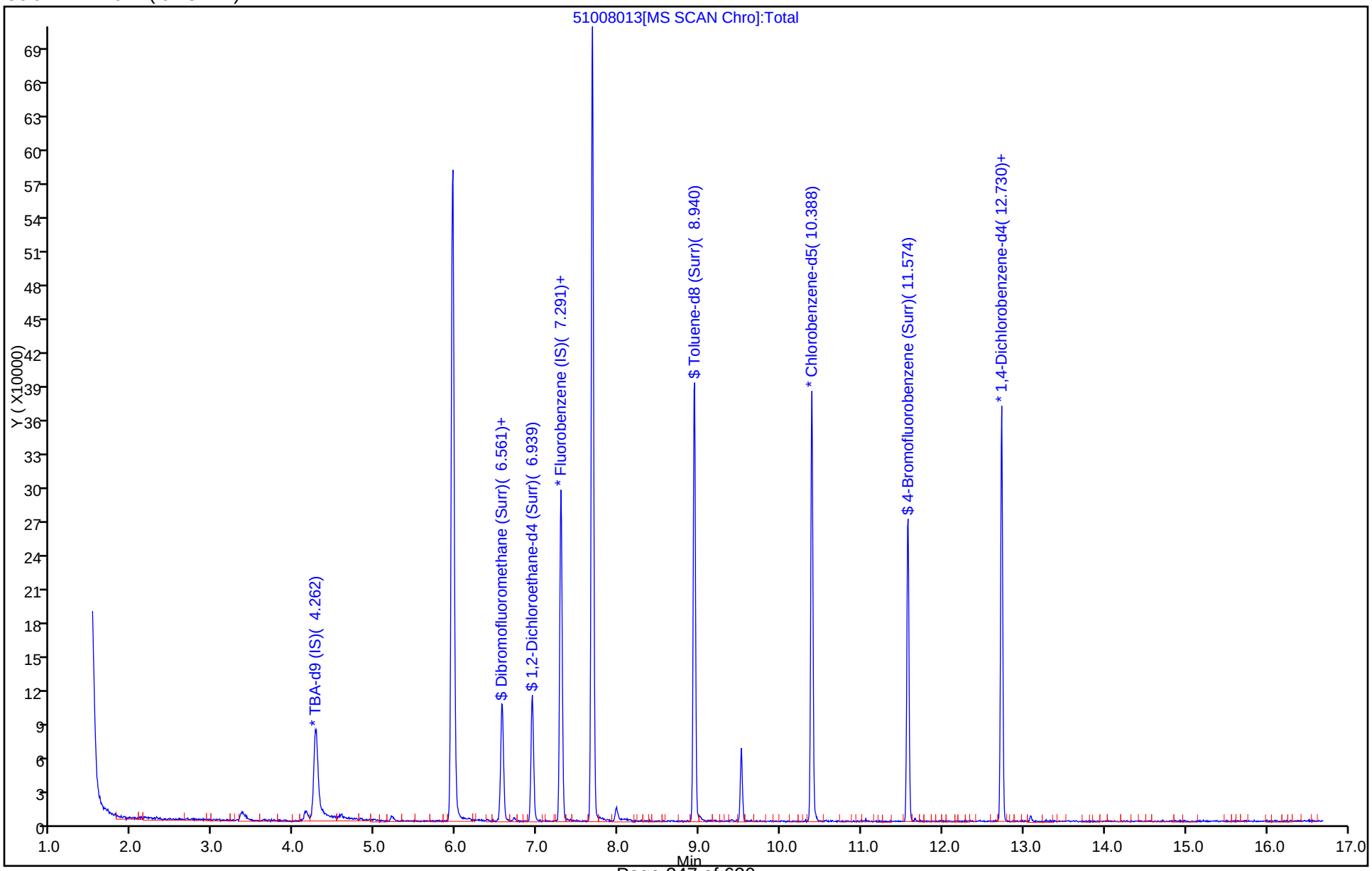
Report Date: 09-Oct-2015 08:29:18 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151008-8892.b\51008013.D

Injection Date:	08-Oct-2015 16:24:30	Instrument ID:	CHHP5	Operator ID:	001562
Lims ID:	180-48309-C-1	Lab Sample ID:	180-48309-1	Worklist Smp#:	13
Client ID:	HD-MW-87-0/1-0				
Purge Vol:	5.000 mL	Dil. Factor:	12.5000	ALS Bottle#:	12
Method:	MSVOA_LL_CHHP5	Limit Group:	VOA 8260C ICAL		

Column: DB-624 (0.18 mm)



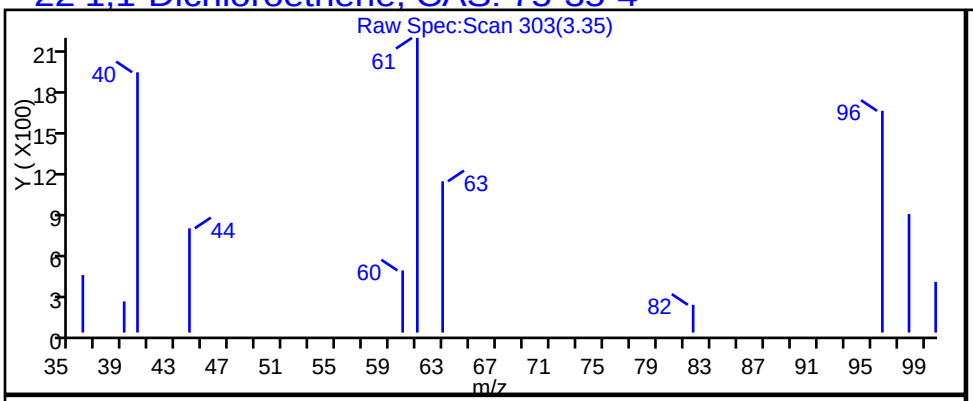
Report Date: 09-Oct-2015 08:29:18 Chrom Revision: 2.2 08-Sep-2015 13:41:46

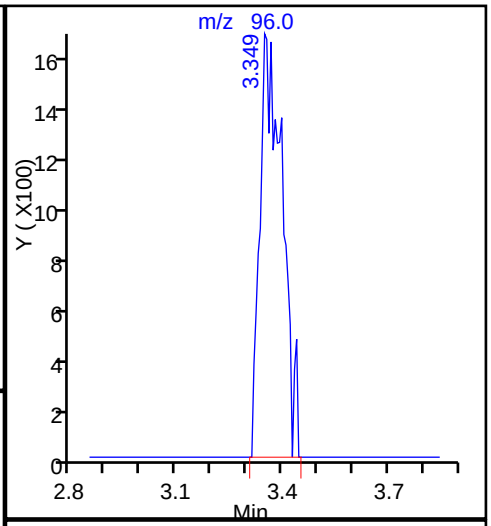
TestAmerica Pittsburgh

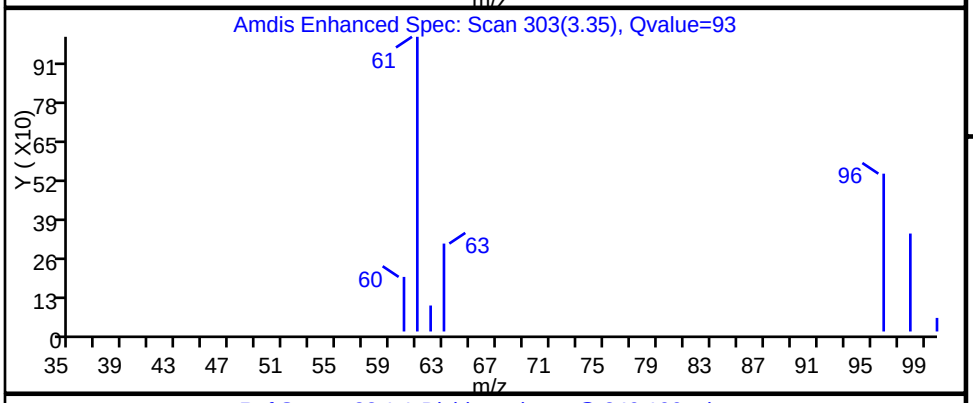
Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151008-8892.b\51008013.D

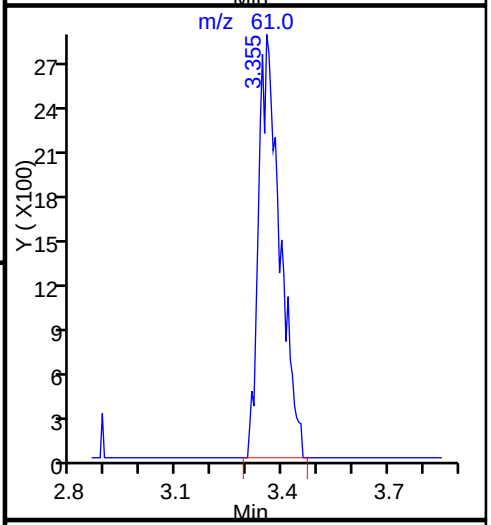
Injection Date:	08-Oct-2015 16:24:30	Instrument ID:	CHHP5		
Lims ID:	180-48309-C-1	Lab Sample ID:	180-48309-1		
Client ID:	HD-MW-87-0/1-0				
Operator ID:	001562	ALS Bottle#:	12	Worklist Smp#:	13
Purge Vol:	5.000 mL	Dil. Factor:	12.5000		
Method:	MSVOA_LL_CHHP5	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

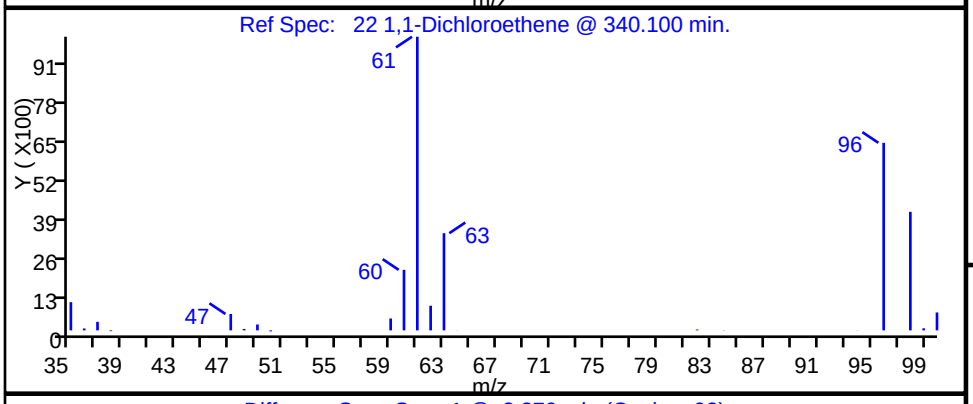
22 1,1-Dichloroethene, CAS: 75-35-4

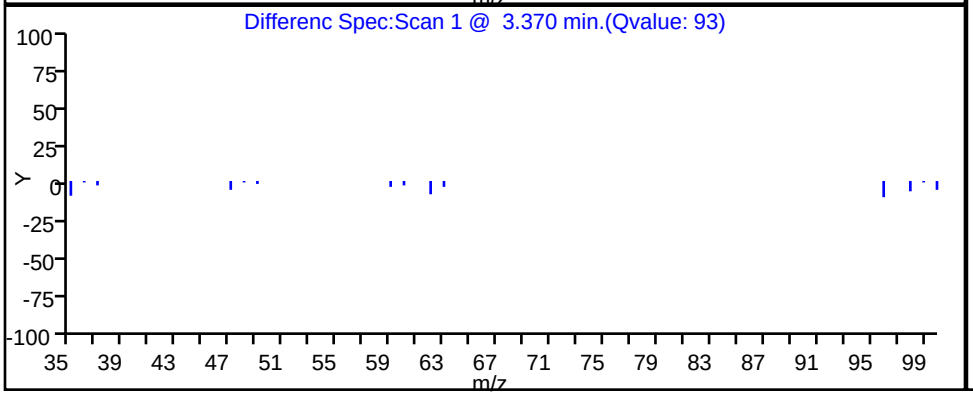


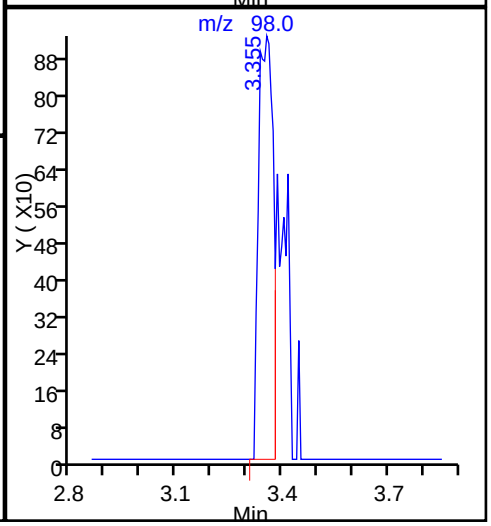












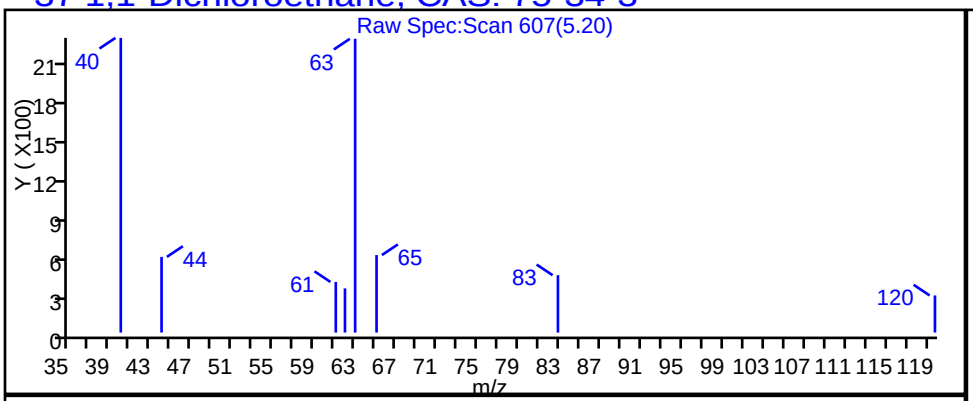
Report Date: 09-Oct-2015 08:29:18 Chrom Revision: 2.2 08-Sep-2015 13:41:46

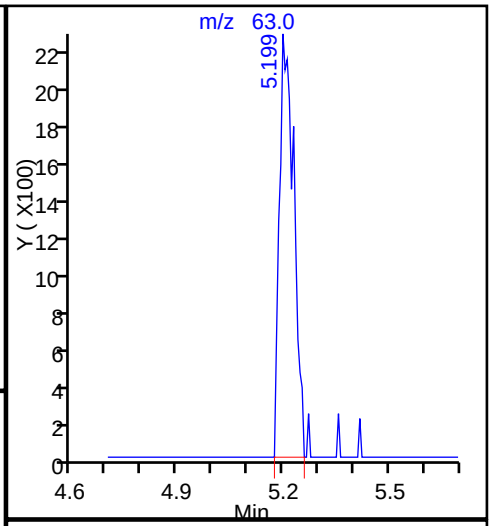
TestAmerica Pittsburgh

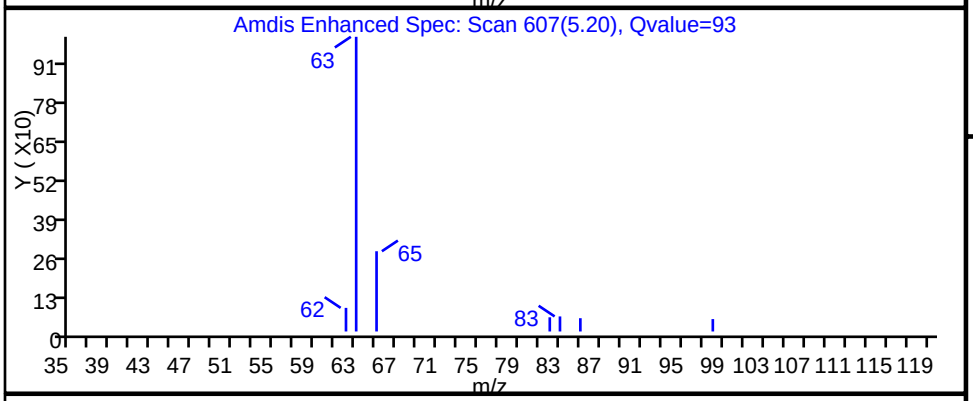
Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151008-8892.b\51008013.D

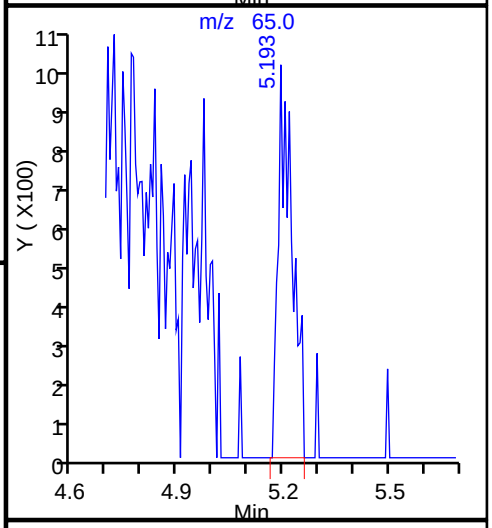
Injection Date:	08-Oct-2015 16:24:30	Instrument ID:	CHHP5		
Lims ID:	180-48309-C-1	Lab Sample ID:	180-48309-1		
Client ID:	HD-MW-87-0/1-0				
Operator ID:	001562	ALS Bottle#:	12	Worklist Smp#:	13
Purge Vol:	5.000 mL	Dil. Factor:	12.5000		
Method:	MSVOA_LL_CHHP5	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

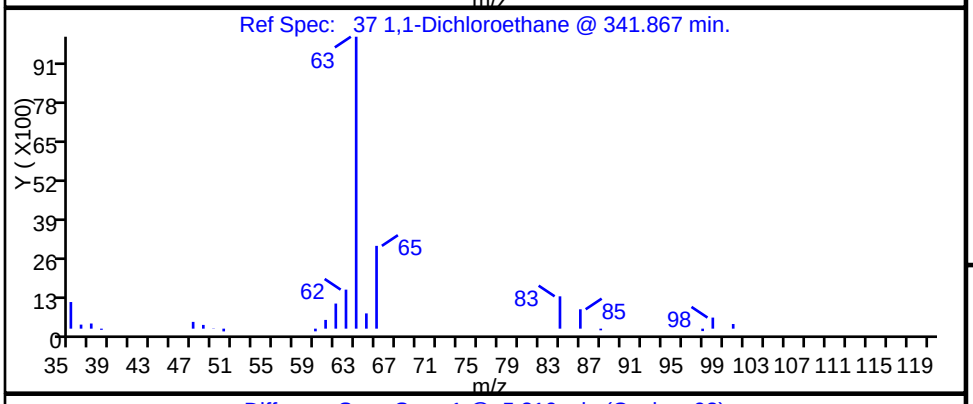
37 1,1-Dichloroethane, CAS: 75-34-3

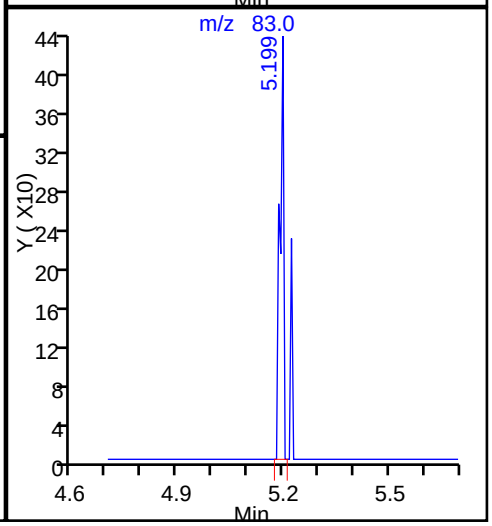


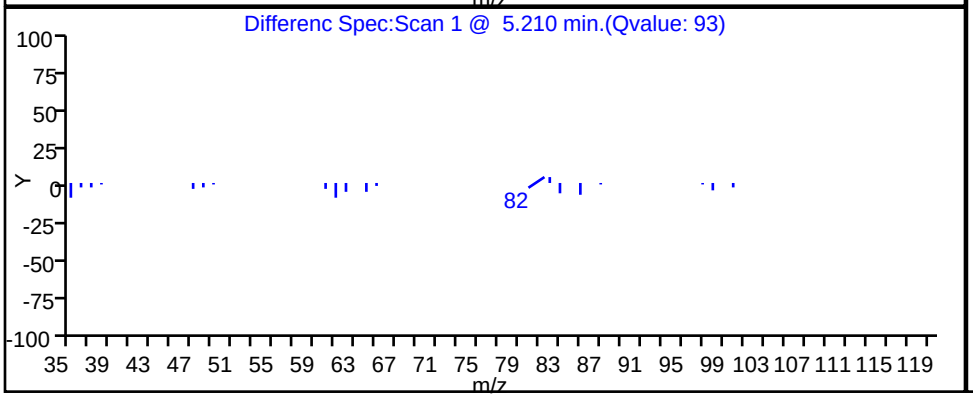












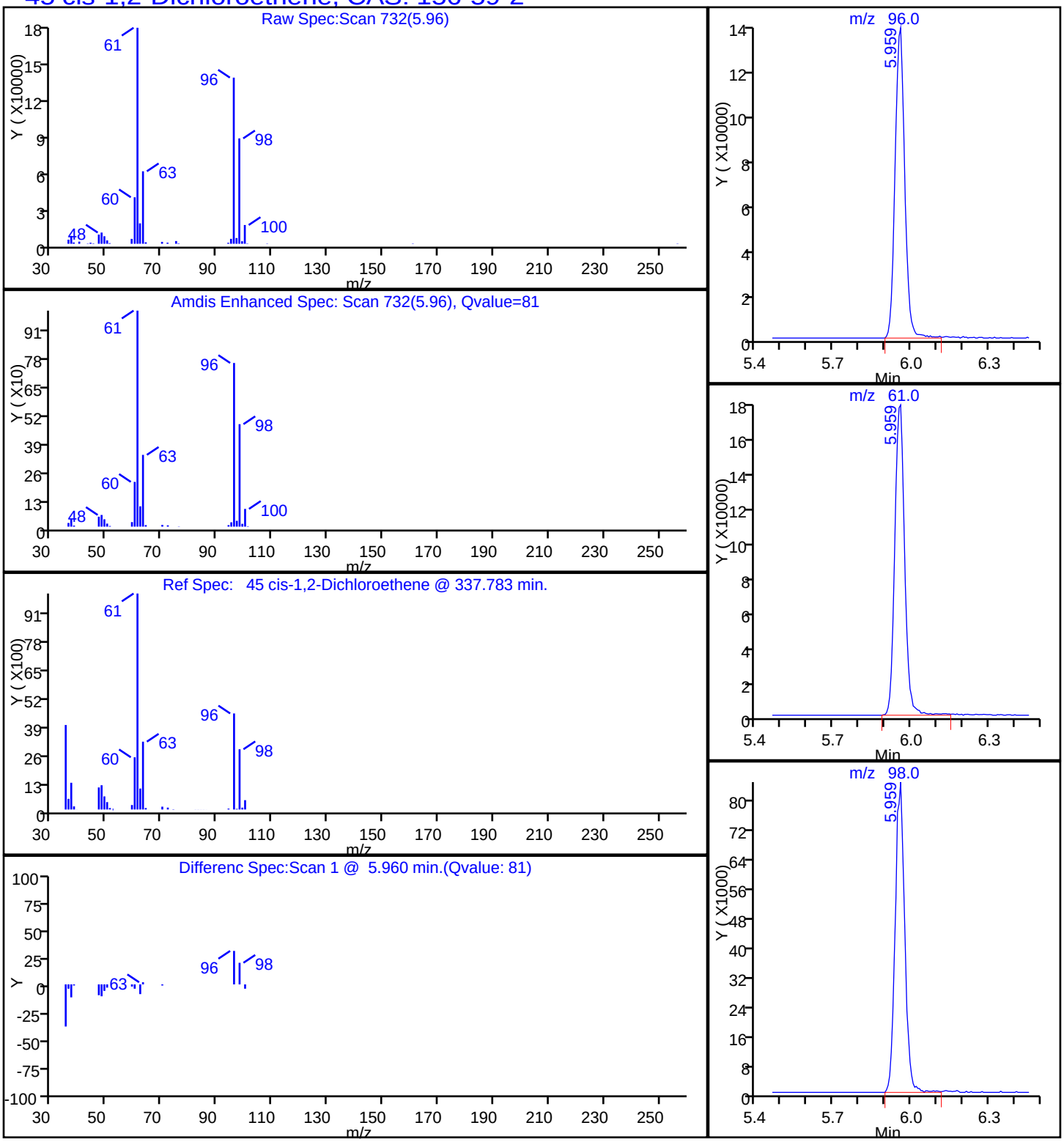
Report Date: 09-Oct-2015 08:29:18 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151008-8892.b\51008013.D

Injection Date:	08-Oct-2015 16:24:30	Instrument ID:	CHHP5		
Lims ID:	180-48309-C-1	Lab Sample ID:	180-48309-1		
Client ID:	HD-MW-87-0/1-0				
Operator ID:	001562	ALS Bottle#:	12	Worklist Smp#:	13
Purge Vol:	5.000 mL	Dil. Factor:	12.5000		
Method:	MSVOA_LL_CHHP5	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

45 cis-1,2-Dichloroethene, CAS: 156-59-2



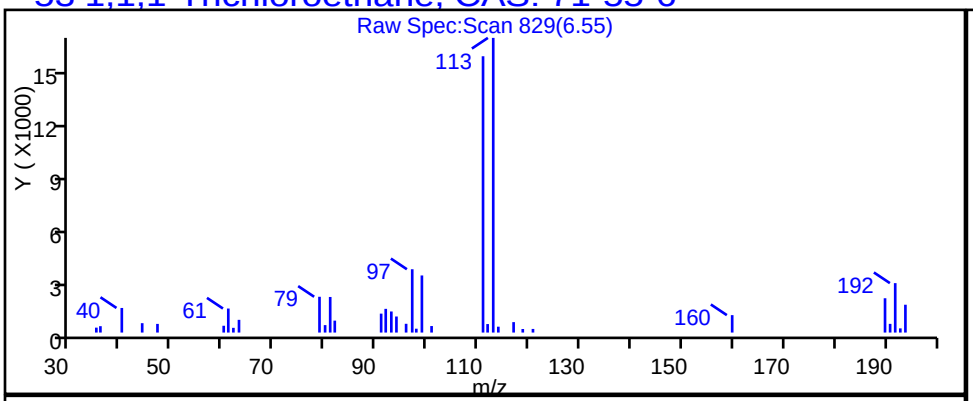
Report Date: 09-Oct-2015 08:29:18 Chrom Revision: 2.2 08-Sep-2015 13:41:46

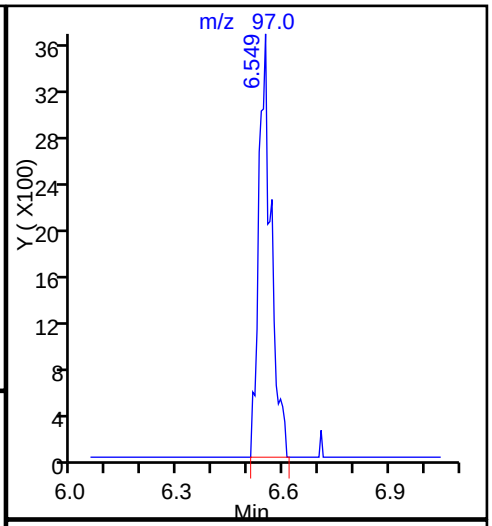
TestAmerica Pittsburgh

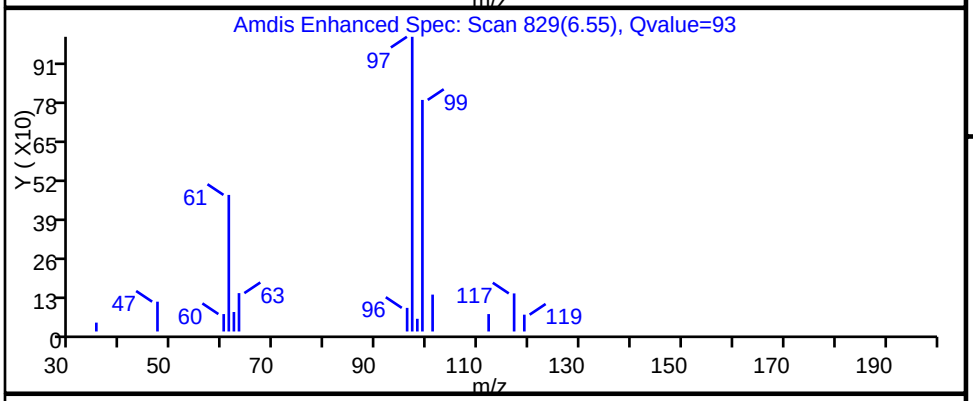
Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151008-8892.b\51008013.D

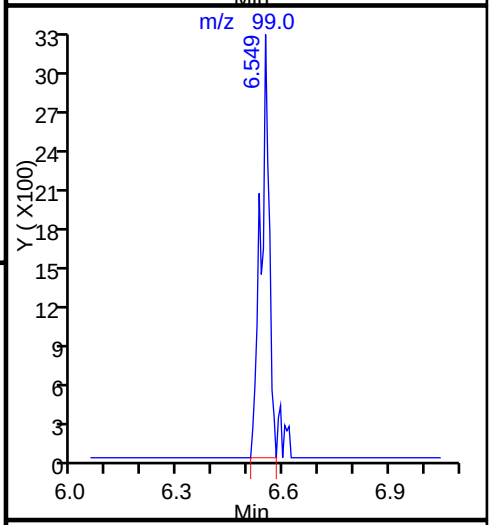
Injection Date:	08-Oct-2015 16:24:30	Instrument ID:	CHHP5		
Lims ID:	180-48309-C-1	Lab Sample ID:	180-48309-1		
Client ID:	HD-MW-87-0/1-0				
Operator ID:	001562	ALS Bottle#:	12	Worklist Smp#:	13
Purge Vol:	5.000 mL	Dil. Factor:	12.5000		
Method:	MSVOA_LL_CHHP5	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

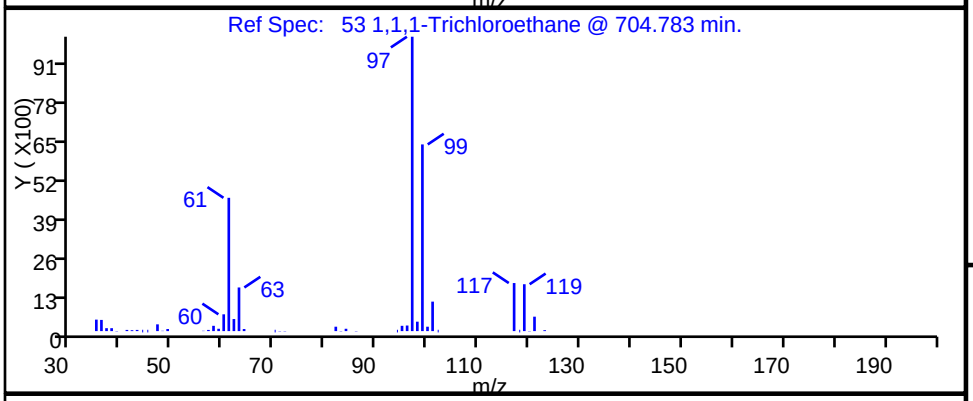
53 1,1,1-Trichloroethane, CAS: 71-55-6

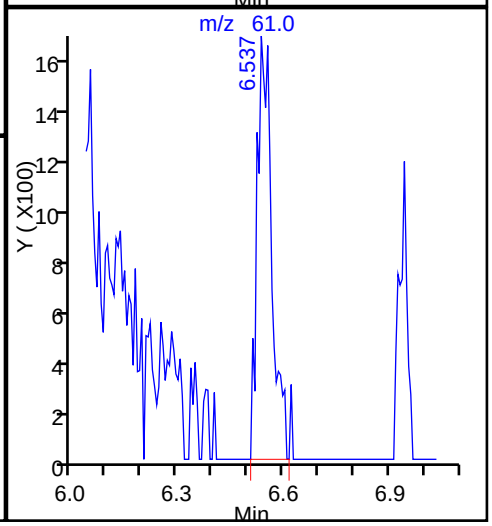


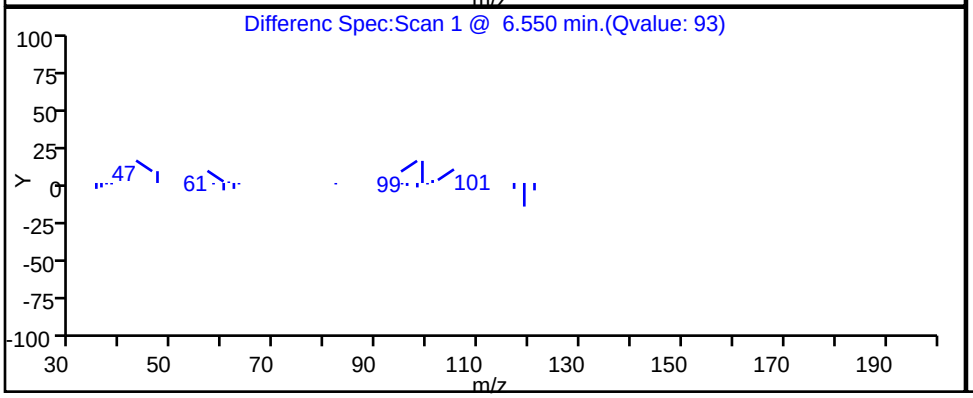












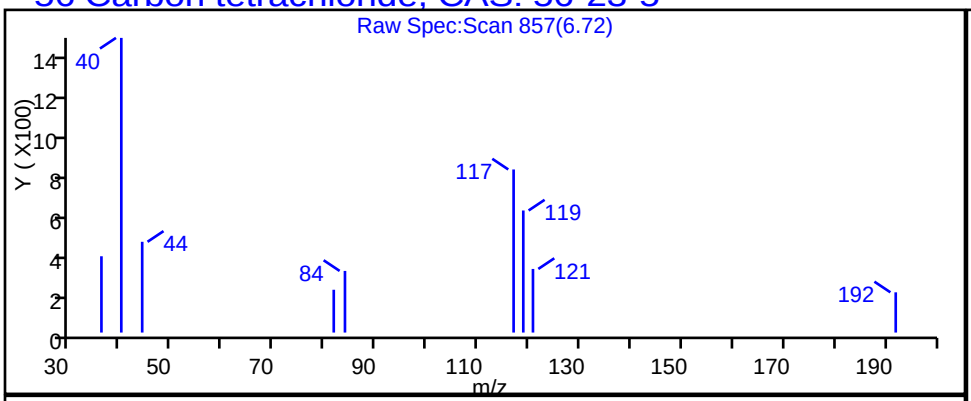
Report Date: 09-Oct-2015 08:29:18 Chrom Revision: 2.2 08-Sep-2015 13:41:46

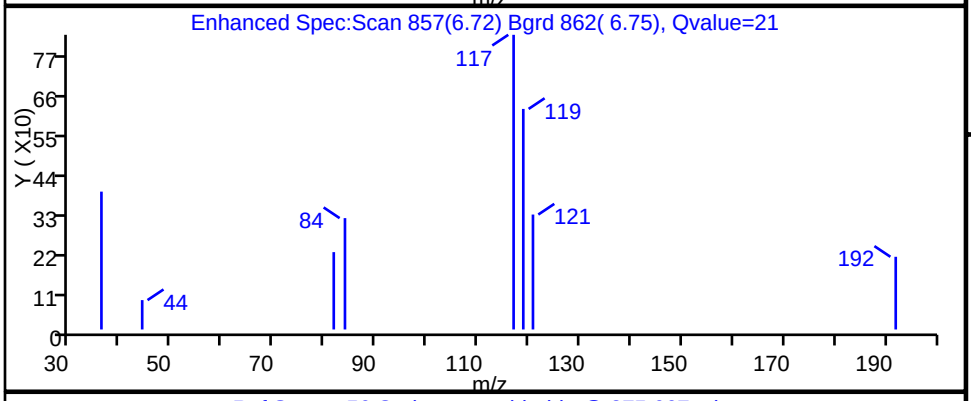
TestAmerica Pittsburgh

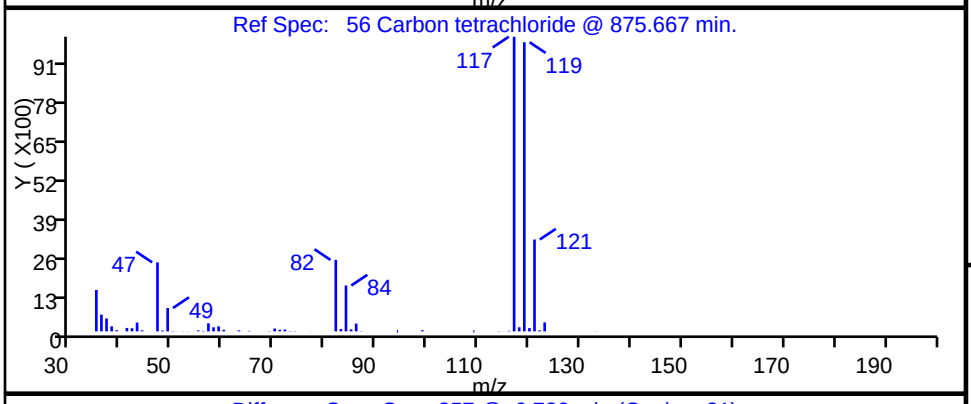
Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151008-8892.b\51008013.D

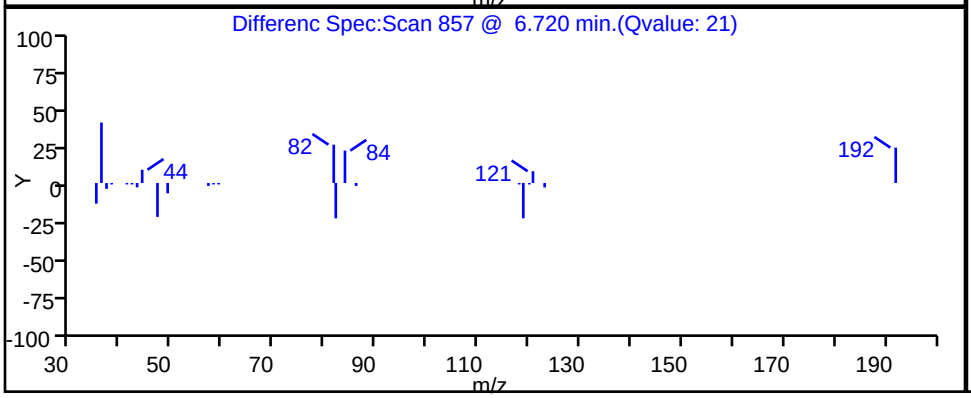
Injection Date:	08-Oct-2015 16:24:30	Instrument ID:	CHHP5		
Lims ID:	180-48309-C-1	Lab Sample ID:	180-48309-1		
Client ID:	HD-MW-87-0/1-0				
Operator ID:	001562	ALS Bottle#:	12	Worklist Smp#:	13
Purge Vol:	5.000 mL	Dil. Factor:	12.5000		
Method:	MSVOA_LL_CHHP5	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

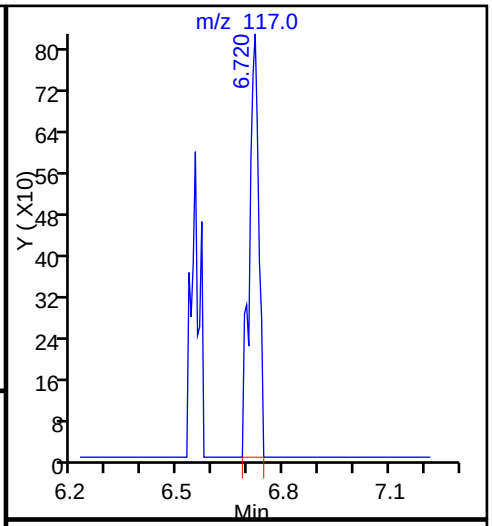
56 Carbon tetrachloride, CAS: 56-23-5

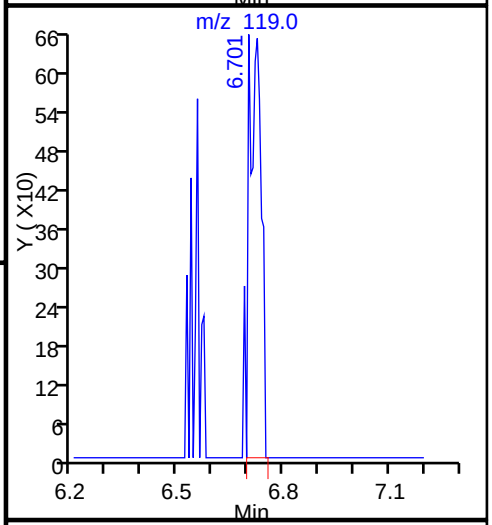


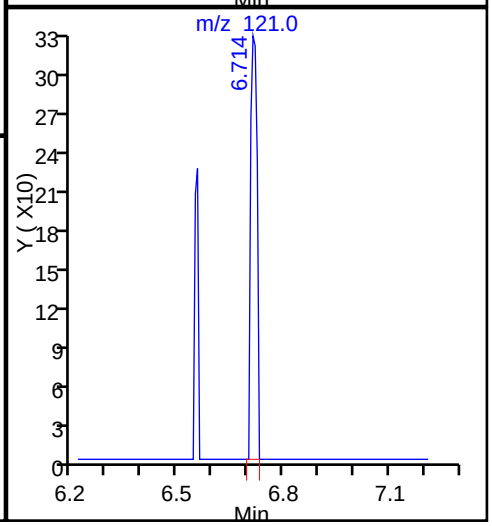












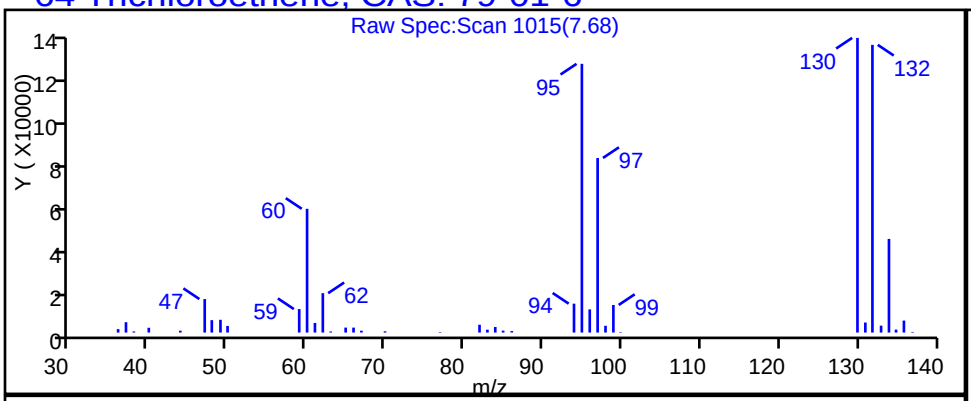
Report Date: 09-Oct-2015 08:29:18 Chrom Revision: 2.2 08-Sep-2015 13:41:46

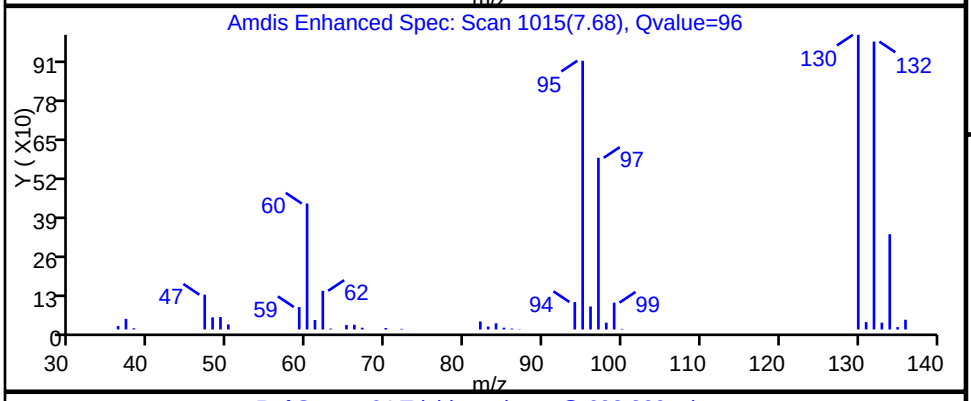
TestAmerica Pittsburgh

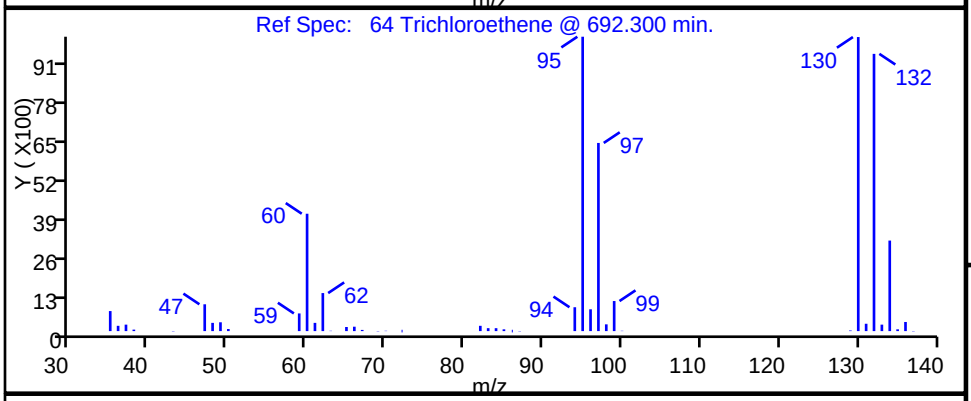
Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151008-8892.b\51008013.D

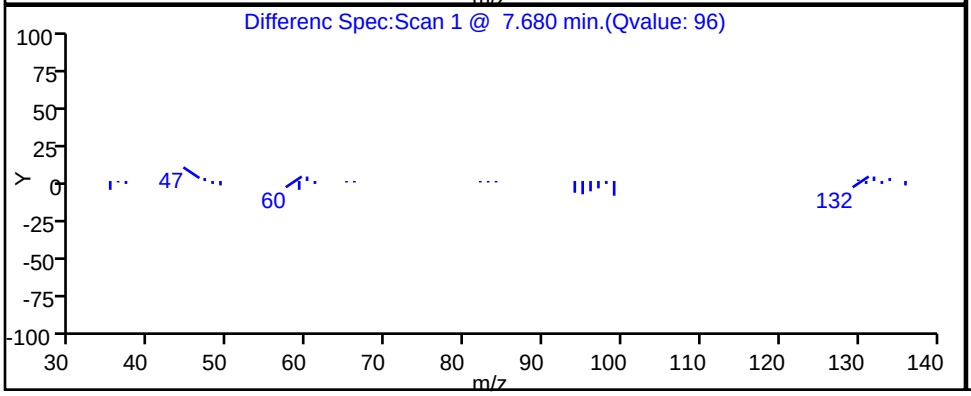
Injection Date:	08-Oct-2015 16:24:30	Instrument ID:	CHHP5		
Lims ID:	180-48309-C-1	Lab Sample ID:	180-48309-1		
Client ID:	HD-MW-87-0/1-0				
Operator ID:	001562	ALS Bottle#:	12	Worklist Smp#:	13
Purge Vol:	5.000 mL	Dil. Factor:	12.5000		
Method:	MSVOA_LL_CHHP5	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

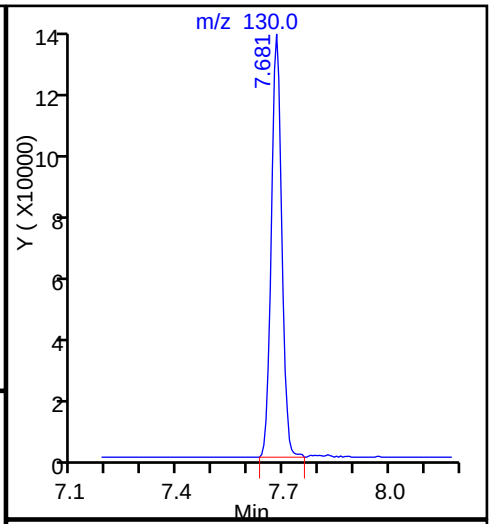
64 Trichloroethene, CAS: 79-01-6

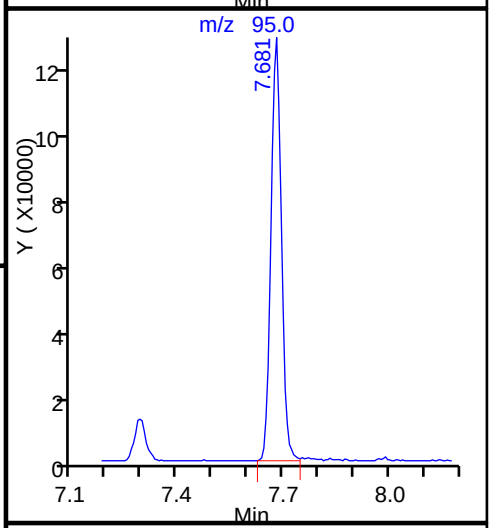


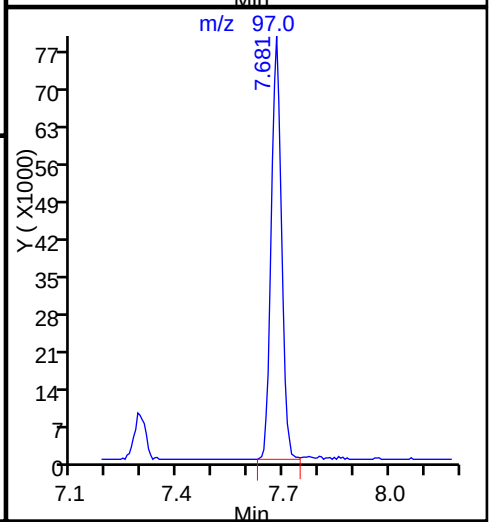












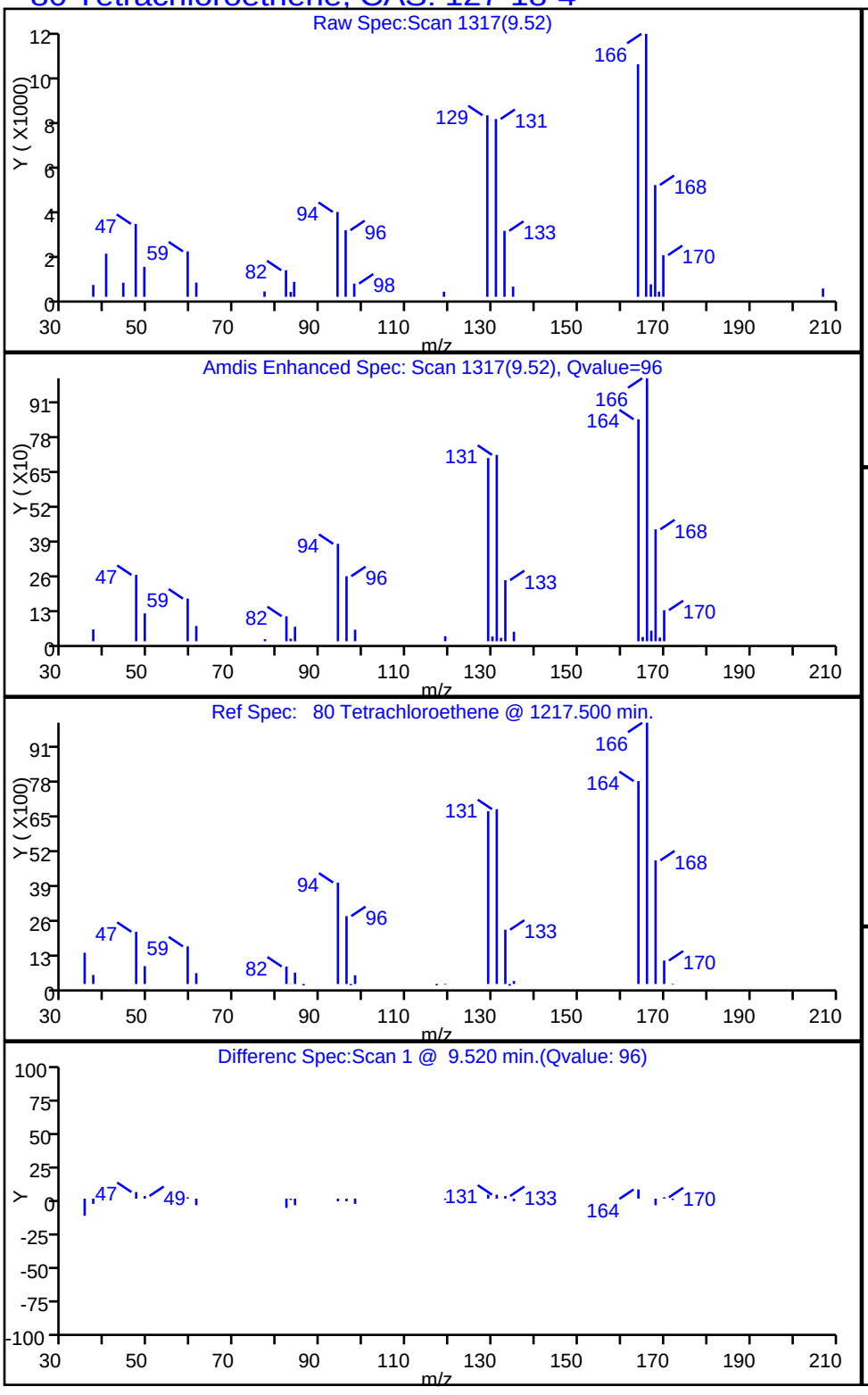
Report Date: 09-Oct-2015 08:29:18 Chrom Revision: 2.2 08-Sep-2015 13:41:46

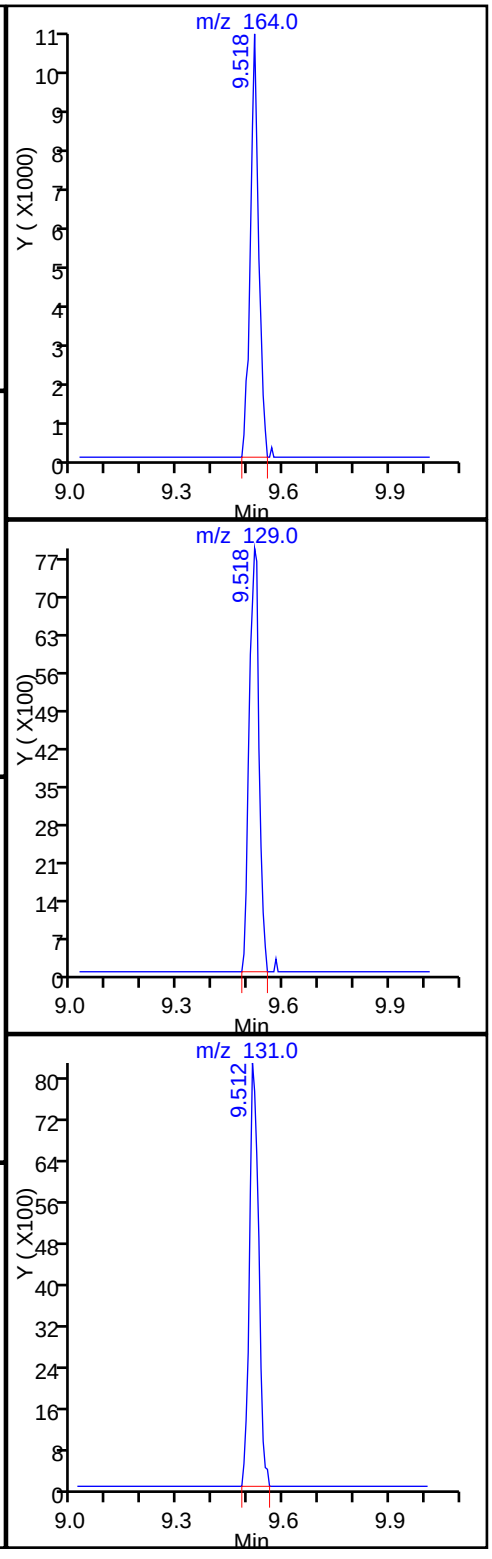
TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151008-8892.b\51008013.D

Injection Date:	08-Oct-2015 16:24:30	Instrument ID:	CHHP5		
Lims ID:	180-48309-C-1	Lab Sample ID:	180-48309-1		
Client ID:	HD-MW-87-0/1-0				
Operator ID:	001562	ALS Bottle#:	12	Worklist Smp#:	13
Purge Vol:	5.000 mL	Dil. Factor:	12.5000		
Method:	MSVOA_LL_CHHP5	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

80 Tetrachloroethene, CAS: 127-18-4





Manual Integration/User Assign Peak Report

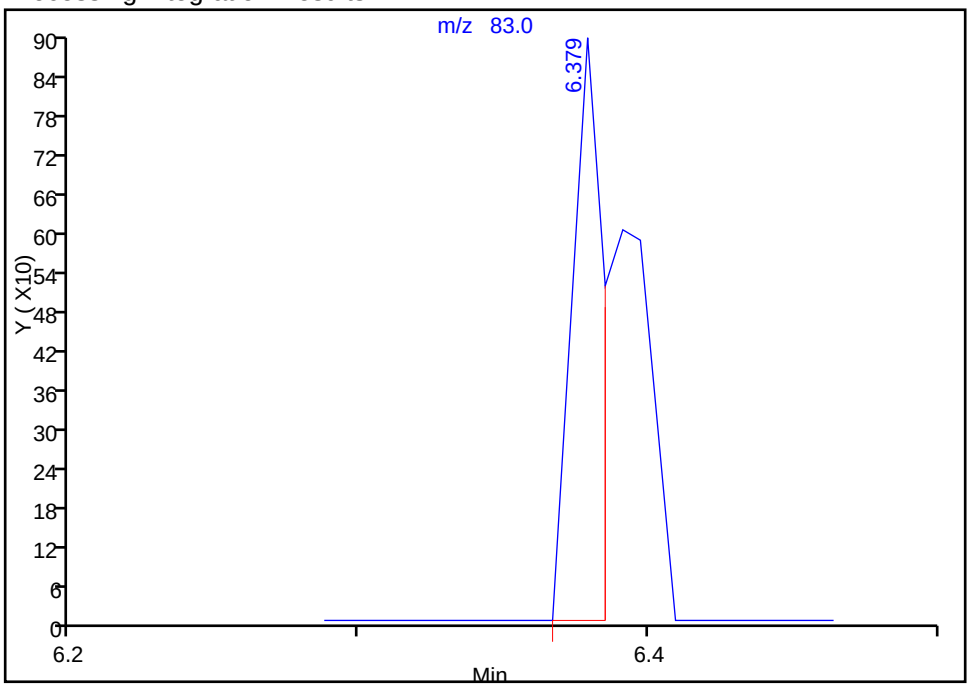
TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHHP5\20151008-8892.b\51008013.D				
Injection Date:	08-Oct-2015 16:24:30	Instrument ID:	CHHP5		
Lims ID:	180-48309-C-1	Lab Sample ID:	180-48309-1		
Client ID:	HD-MW-87-0/1-0				
Operator ID:	001562	ALS Bottle#:	12	Worklist Smp#:	13
Purge Vol:	5.000 mL	Dil. Factor:	12.5000		
Method:	MSVOA_LL_CHHP5	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

52 Chloroform, CAS: 67-66-3

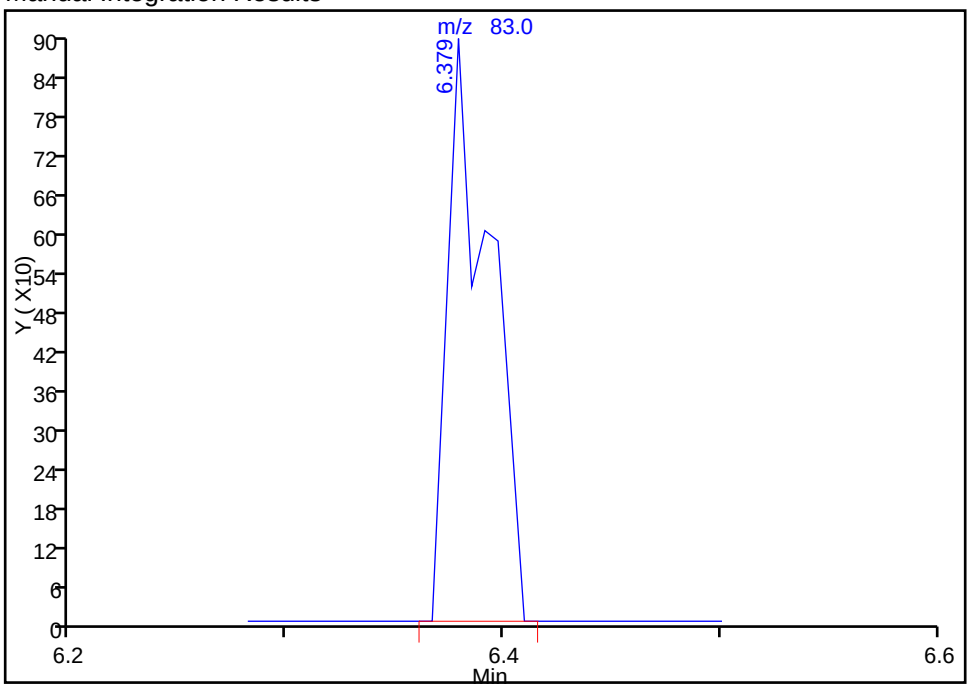
Processing Integration Results

RT: 6.38
Area: 676
Amount: 0.223572
Amount Units: ng



Manual Integration Results

RT: 6.38
Area: 1216
Amount: 0.402165
Amount Units: ng



Reviewer: fergusond, 09-Oct-2015 08:29:17
Audit Action: Manually Integrated
Audit Reason: Incomplete Integration

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-48309-1

SDG No.:

Client Sample ID: HD-MW-143S-0/1-0 | Lab Sample ID: 180-48309-2

Matrix: Water | Lab File ID: 61007019.D

Analysis Method: 8260C | Date Collected: 09/30/2015 14:02

Sample wt/vol: 5(mL) | Date Analyzed: 10/07/2015 20:03

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 156189 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	1.0	U	1.0	0.28
75-01-4	Vinyl chloride	1.0	U	1.0	0.23
74-83-9	Bromomethane	1.0	U ^c	1.0	0.31
75-00-3	Chloroethane	1.0	U	1.0	0.21
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.30
67-64-1	Acetone	5.0	U	5.0	2.5
75-15-0	Carbon disulfide	1.0	U	1.0	0.21
75-09-2	Methylene Chloride	1.0	U	1.0	0.13
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.17
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.18
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.12
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.24
74-97-5	Bromochloromethane	1.0	U	1.0	0.18
78-93-3	2-Butanone (MEK)	5.0	U	5.0	0.55
67-66-3	Chloroform	1.0	U	1.0	0.17
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.29
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.14
71-43-2	Benzene	1.0	U	1.0	0.11
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
79-01-6	Trichloroethene	2.2		1.0	0.14
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.095
75-27-4	Bromodichloromethane	1.0	U	1.0	0.13
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.19
108-10-1	4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	0.53
108-88-3	Toluene	1.0	U	1.0	0.15
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.15
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.20
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
591-78-6	2-Hexanone	5.0	U ^c	5.0	0.16
124-48-1	Dibromochloromethane	1.0	U	1.0	0.14
106-93-4	1,2-Dibromoethane (EDB)	1.0	U	1.0	0.18
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U ^c	1.0	0.28
100-41-4	Ethylbenzene	1.0	U	1.0	0.23
1330-20-7	Xylenes, Total	3.0	U	3.0	0.49
100-42-5	Styrene	1.0	U ^c	1.0	0.097

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-48309-1

SDG No.:

Client Sample ID: HD-MW-143S-0/1-0 | Lab Sample ID: 180-48309-2

Matrix: Water | Lab File ID: 61007019.D

Analysis Method: 8260C | Date Collected: 09/30/2015 14:02

Sample wt/vol: 5(mL) | Date Analyzed: 10/07/2015 20:03

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 156189 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-25-2	Bromoform	1.0	U ^c	1.0	0.19
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.20
107-13-1	Acrylonitrile	20	U ^c	20	0.55
123-91-1	1,4-Dioxane	200	U ^c	200	34

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		64-135
2037-26-5	Toluene-d8 (Surr)	104		71-118
460-00-4	4-Bromofluorobenzene (Surr)	87		70-118
1868-53-7	Dibromofluoromethane (Surr)	107		70-128

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20151007-8874.b\61007019.D
Lims ID: 180-48309-C-2 Lab Sample ID: 180-48309-2
Client ID: HD-MW-143S-0/1-0
Sample Type: Client
Inject. Date: 07-Oct-2015 20:03:30 ALS Bottle#: 19 Worklist Smp#: 19
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 180-48309-C-2
Misc. Info.: 180-0008874-019
Operator ID: 001562 Instrument ID: CHHP6

Method: \\ChromNA\Pittsburgh\ChromData\CHHP6\20151007-8874.b\MSVOA_LL_CHHP6.m
Limit Group: VOA 8260C ICAL
Last Update: 08-Oct-2015 08:53:41 Calib Date: 14-Sep-2015 16:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150914-8521.b\60914006.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK015

First Level Reviewer: fergusond Date: 08-Oct-2015 08:53:41

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.242	4.245	-0.003	88	174732	1000.0	
* 2 Fluorobenzene (IS)	96	7.290	7.281	0.009	97	434002	50.0	
* 3 Chlorobenzene-d5	119	10.398	10.396	0.002	90	105329	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.747	12.750	-0.003	97	168898	50.0	
$ 5 Dibromofluoromethane (Surr	113	6.554	6.551	0.003	94	106549	53.3	
$ 6 1,2-Dichloroethane-d4 (Sur	65	6.931	6.928	0.003	70	168139	52.1	
$ 7 Toluene-d8 (Surr)	98	8.945	8.942	0.003	94	433228	52.1	
$ 8 4-Bromofluorobenzene (Surr	95	11.585	11.588	-0.003	85	160293	43.5	
12 Chloromethane	50	1.760	1.757	0.003	1	2519	0.9725	M
13 Vinyl chloride	62		1.903				ND	
15 Bromomethane	94		2.232				ND	
16 Chloroethane	64		2.371				ND	
22 1,1-Dichloroethene	96		3.339				ND	
24 Acetone	43		3.418				ND	
26 Carbon disulfide	76		3.625				ND	
31 Methylene Chloride	84		4.124				ND	
33 Acrylonitrile	53		4.501				ND	
34 trans-1,2-Dichloroethene	96		4.568				ND	
35 Methyl tert-butyl ether	73		4.574				ND	
37 1,1-Dichloroethane	63		5.188				ND	
43 cis-1,2-Dichloroethene	96		5.936				ND	
44 2-Butanone (MEK)	43		5.949				ND	
48 Chlorobromomethane	128		6.222				ND	
50 Chloroform	83		6.368				ND	
51 1,1,1-Trichloroethane	97		6.539				ND	
53 Carbon tetrachloride	117		6.709				ND	
56 Benzene	78		6.940				ND	
57 1,2-Dichloroethane	62		7.013				ND	
61 Trichloroethene	130	7.679	7.676	0.003	95	23189	11.0	
64 1,2-Dichloropropane	63		7.950				ND	
65 1,4-Dioxane	88		8.029				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
68 Dichlorobromomethane	83		8.230				ND	
71 cis-1,3-Dichloropropene	75		8.674				ND	
72 4-Methyl-2-pentanone (MIBK	43		8.826				ND	
73 Toluene	91		9.009				ND	
74 trans-1,3-Dichloropropene	75		9.252				ND	
76 1,1,2-Trichloroethane	97		9.447				ND	
77 Tetrachloroethene	164		9.526				ND	
79 2-Hexanone	43		9.659				ND	
81 Chlorodibromomethane	129		9.824				ND	
82 Ethylene Dibromide	107		9.939				ND	
84 Chlorobenzene	112		10.426				ND	
86 1,1,1,2-Tetrachloroethane	131		10.523				ND	
87 Ethylbenzene	106		10.523				ND	
88 m-Xylene & p-Xylene	106		10.657				ND	
89 o-Xylene	106		11.040				ND	
90 Styrene	104		11.059				ND	
91 Bromoform	173		11.241				ND	
96 1,1,2,2-Tetrachloroethane	83		11.716				ND	
S 131 Xylenes, Total	106		1.000				ND	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

VOA8260INT_00042	Amount Added:	2.00	Units: uL	Run Reagent
VOA8260SURR_00042	Amount Added:	2.00	Units: uL	Run Reagent

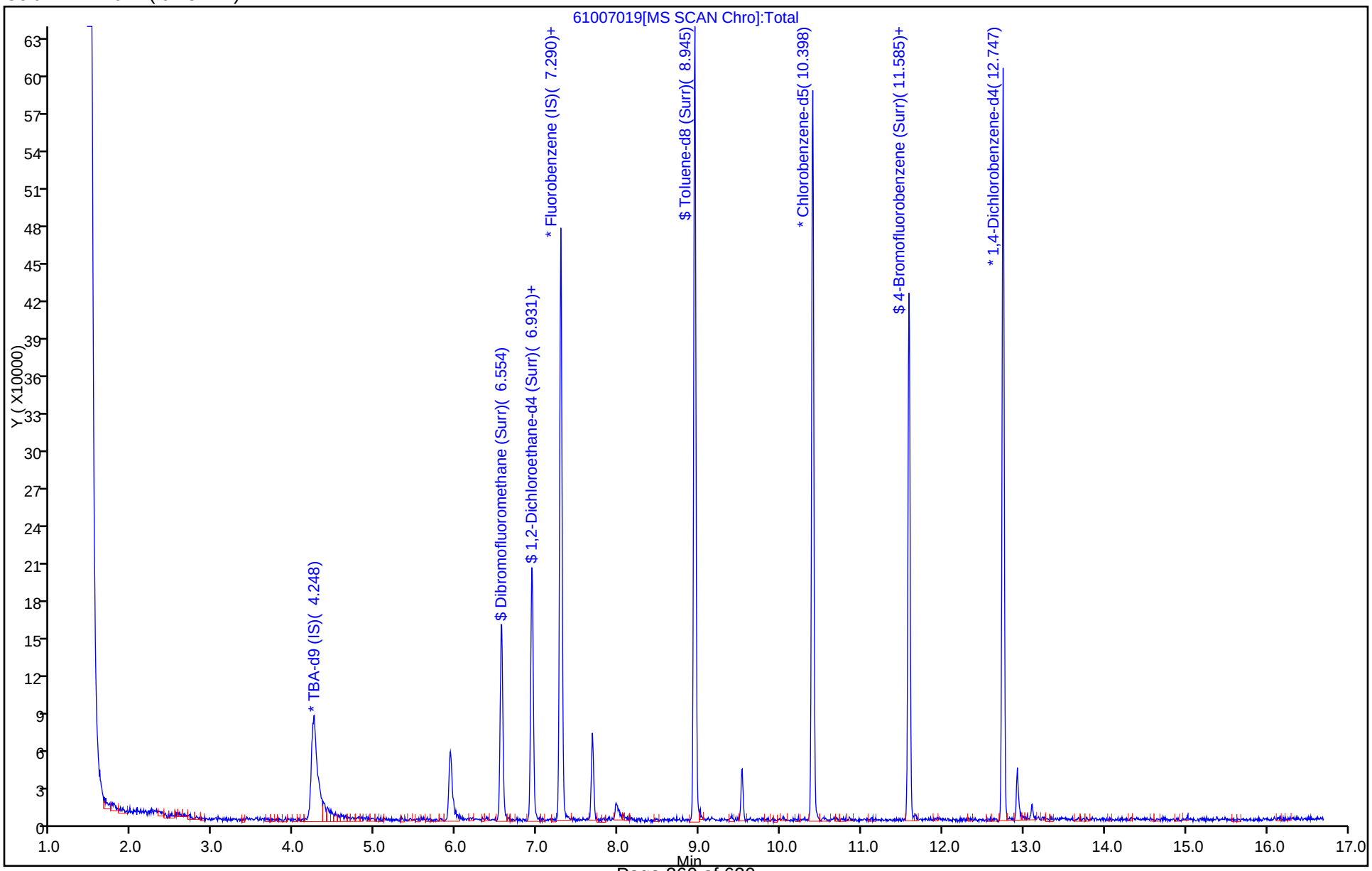
Report Date: 08-Oct-2015 08:53:41 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20151007-8874.b\61007019.D

Injection Date:	07-Oct-2015 20:03:30	Instrument ID:	CHHP6	Operator ID:	001562
Lims ID:	180-48309-C-2	Lab Sample ID:	180-48309-2	Worklist Smp#:	19
Client ID:	HD-MW-143S-0/1-0				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	19
Method:	MSVOA_LL_CHHP6	Limit Group:	VOA 8260C ICAL		

Column: DB-624 (0.18 mm)



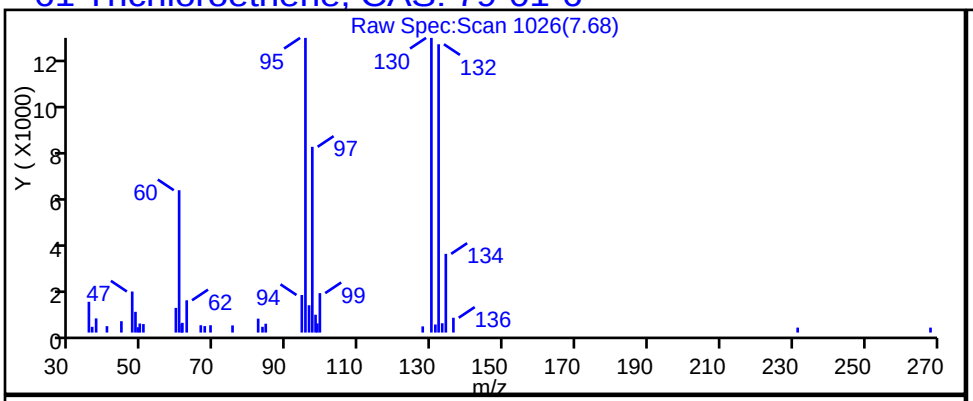
Report Date: 08-Oct-2015 08:53:42 Chrom Revision: 2.2 08-Sep-2015 13:41:46

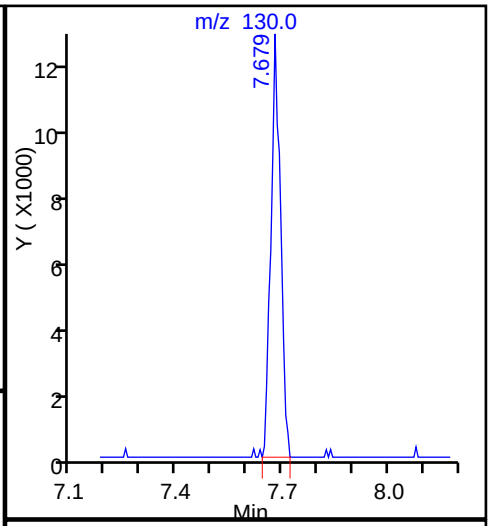
TestAmerica Pittsburgh

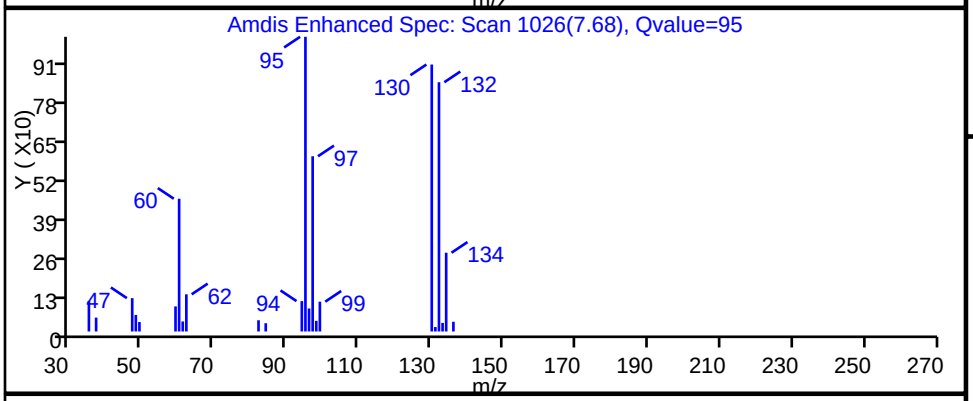
Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20151007-8874.b\61007019.D

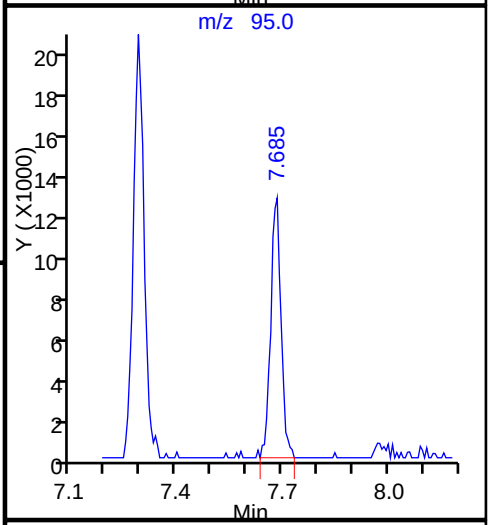
Injection Date:	07-Oct-2015 20:03:30	Instrument ID:	CHHP6		
Lims ID:	180-48309-C-2	Lab Sample ID:	180-48309-2		
Client ID:	HD-MW-143S-0/1-0				
Operator ID:	001562	ALS Bottle#:	19	Worklist Smp#:	19
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVOA_LL_CHHP6	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

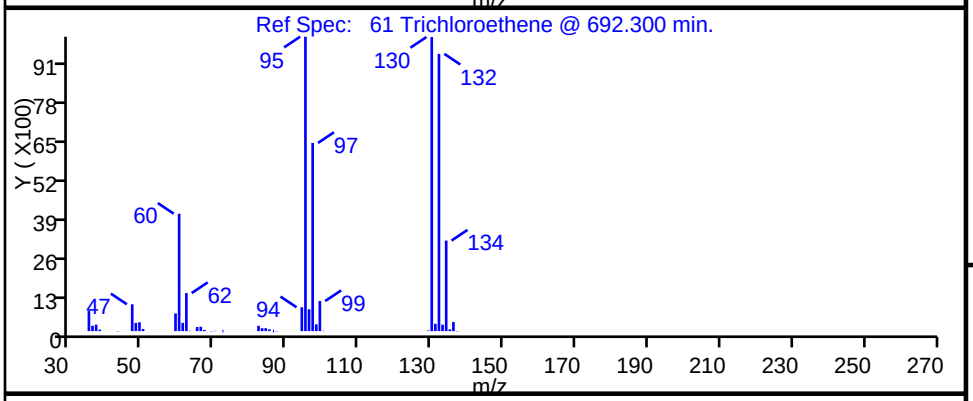
61 Trichloroethene, CAS: 79-01-6

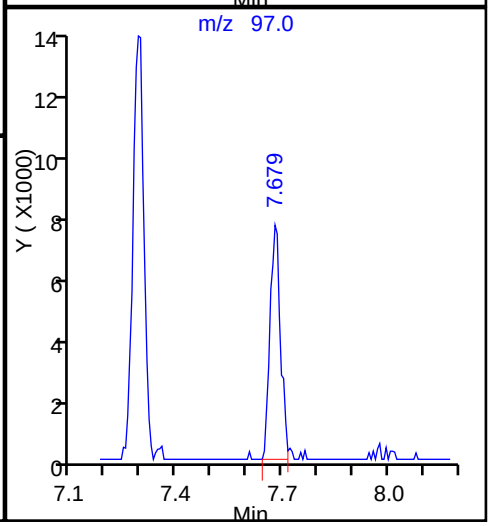


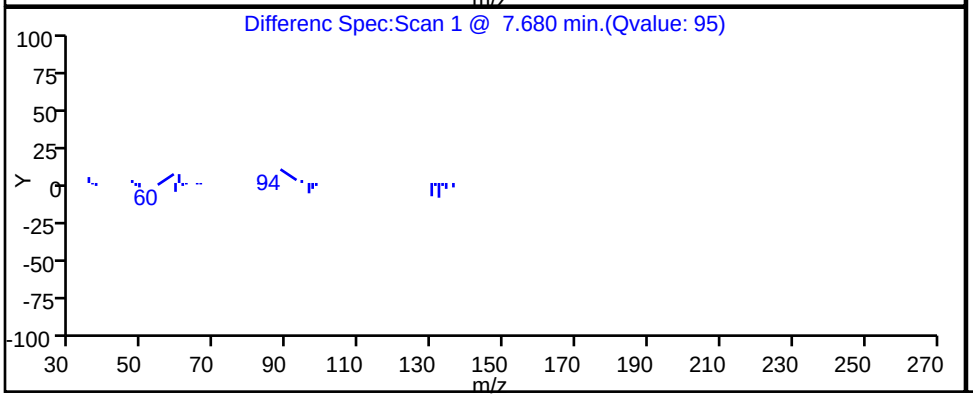












Manual Integration/User Assign Peak Report

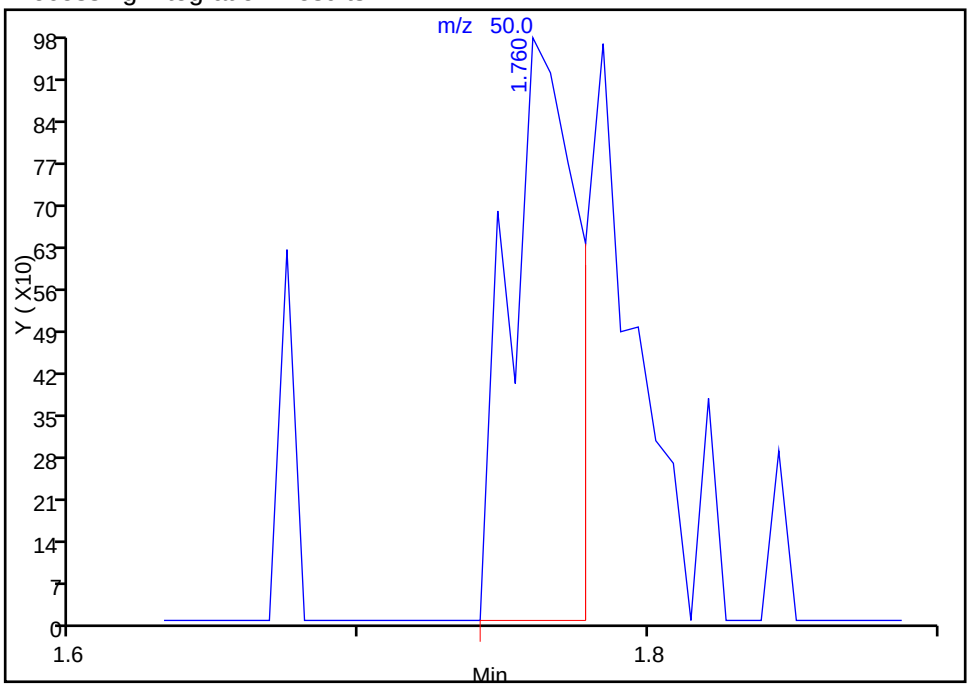
TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHHP6\20151007-8874.b\61007019.D				
Injection Date:	07-Oct-2015 20:03:30	Instrument ID:	CHHP6		
Lims ID:	180-48309-C-2	Lab Sample ID:	180-48309-2		
Client ID:	HD-MW-143S-0/1-0				
Operator ID:	001562	ALS Bottle#:	19	Worklist Smp#:	19
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVOA_LL_CHHP6	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

12 Chloromethane, CAS: 74-87-3

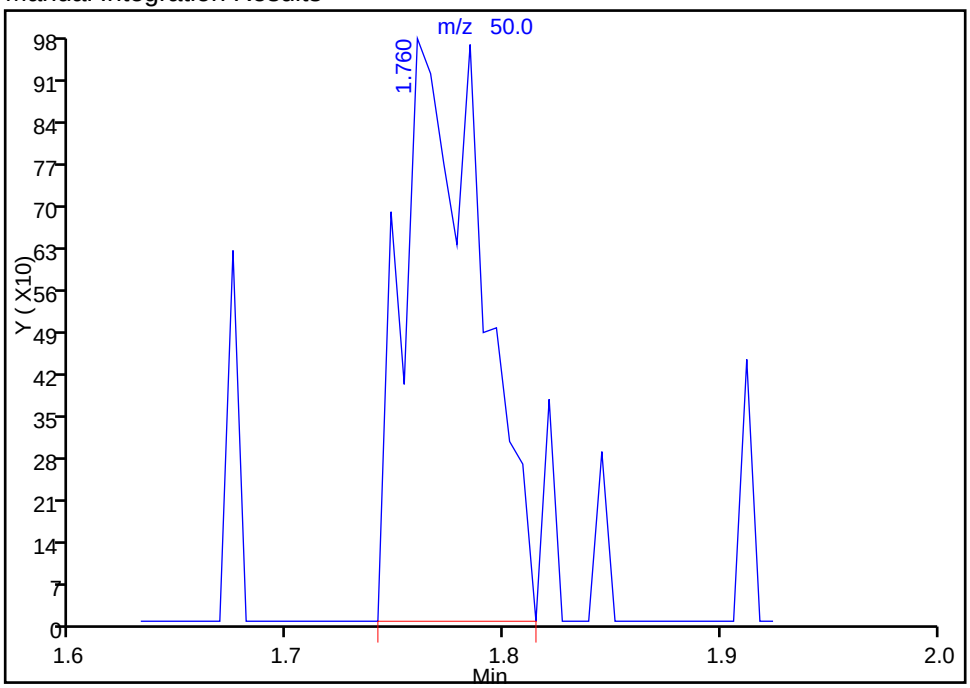
Processing Integration Results

RT: 1.76
Area: 1602
Amount: 0.618496
Amount Units: ng



Manual Integration Results

RT: 1.76
Area: 2519
Amount: 0.972529
Amount Units: ng



Reviewer: fergusond, 08-Oct-2015 08:53:41
Audit Action: Manually Integrated
Audit Reason: Incomplete Integration

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-48309-1

SDG No.:

Client Sample ID: HD-MW-143D-0/1-0 | Lab Sample ID: 180-48309-3

Matrix: Water | Lab File ID: 61007020.D

Analysis Method: 8260C | Date Collected: 09/30/2015 12:42

Sample wt/vol: 5(mL) | Date Analyzed: 10/07/2015 20:27

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 156189 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	1.0	U	1.0	0.28
75-01-4	Vinyl chloride	1.0	U	1.0	0.23
74-83-9	Bromomethane	1.0	U ^c	1.0	0.31
75-00-3	Chloroethane	1.0	U	1.0	0.21
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.30
67-64-1	Acetone	5.0	U	5.0	2.5
75-15-0	Carbon disulfide	1.0	U	1.0	0.21
75-09-2	Methylene Chloride	1.0	U	1.0	0.13
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.17
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.18
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.12
156-59-2	cis-1,2-Dichloroethene	0.39	J	1.0	0.24
74-97-5	Bromochloromethane	1.0	U	1.0	0.18
78-93-3	2-Butanone (MEK)	5.0	U	5.0	0.55
67-66-3	Chloroform	1.0	U	1.0	0.17
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.29
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.14
71-43-2	Benzene	1.0	U	1.0	0.11
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
79-01-6	Trichloroethene	1.0	U	1.0	0.14
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.095
75-27-4	Bromodichloromethane	1.0	U	1.0	0.13
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.19
108-10-1	4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	0.53
108-88-3	Toluene	1.0	U	1.0	0.15
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.15
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.20
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
591-78-6	2-Hexanone	5.0	U ^c	5.0	0.16
124-48-1	Dibromochloromethane	1.0	U	1.0	0.14
106-93-4	1,2-Dibromoethane (EDB)	1.0	U	1.0	0.18
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U ^c	1.0	0.28
100-41-4	Ethylbenzene	1.0	U	1.0	0.23
1330-20-7	Xylenes, Total	3.0	U	3.0	0.49
100-42-5	Styrene	1.0	U ^c	1.0	0.097

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-48309-1

SDG No.:

Client Sample ID: HD-MW-143D-0/1-0 | Lab Sample ID: 180-48309-3

Matrix: Water | Lab File ID: 61007020.D

Analysis Method: 8260C | Date Collected: 09/30/2015 12:42

Sample wt/vol: 5(mL) | Date Analyzed: 10/07/2015 20:27

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 156189 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-25-2	Bromoform	1.0	U ^c	1.0	0.19
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.20
107-13-1	Acrylonitrile	20	U ^c	20	0.55
123-91-1	1,4-Dioxane	200	U ^c	200	34

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	106		64-135
2037-26-5	Toluene-d8 (Surr)	101		71-118
460-00-4	4-Bromofluorobenzene (Surr)	86		70-118
1868-53-7	Dibromofluoromethane (Surr)	104		70-128

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20151007-8874.b\61007020.D
Lims ID: 180-48309-A-3 Lab Sample ID: 180-48309-3
Client ID: HD-MW-143D-0/1-0
Sample Type: Client
Inject. Date: 07-Oct-2015 20:27:30 ALS Bottle#: 20 Worklist Smp#: 20
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 180-48309-A-3
Misc. Info.: 180-0008874-020
Operator ID: 001562 Instrument ID: CHHP6

Method: \\ChromNA\Pittsburgh\ChromData\CHHP6\20151007-8874.b\MSVOA_LL_CHHP6.m
Limit Group: VOA 8260C ICAL
Last Update: 08-Oct-2015 08:54:39 Calib Date: 14-Sep-2015 16:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150914-8521.b\60914006.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK015

First Level Reviewer: fergusond Date: 08-Oct-2015 08:54:39

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
*	1 TBA-d9 (IS)	65	4.248	4.245	0.003	88	173795	1000.0	
*	2 Fluorobenzene (IS)	96	7.289	7.281	0.008	98	454572	50.0	
*	3 Chlorobenzene-d5	119	10.398	10.396	0.002	90	106101	50.0	
*	4 1,4-Dichlorobenzene-d4	152	12.746	12.750	-0.004	97	172179	50.0	
$	5 Dibromofluoromethane (Surr	113	6.553	6.551	0.002	93	108831	52.0	
$	6 1,2-Dichloroethane-d4 (Sur	65	6.930	6.928	0.002	70	179570	53.2	
$	7 Toluene-d8 (Surr)	98	8.944	8.942	0.002	94	423267	50.6	
$	8 4-Bromofluorobenzene (Surr	95	11.584	11.588	-0.004	86	158920	42.8	
	12 Chloromethane	50		1.757				ND	
	13 Vinyl chloride	62		1.903				ND	
	15 Bromomethane	94		2.232				ND	
	16 Chloroethane	64		2.371				ND	
	22 1,1-Dichloroethene	96		3.339				ND	
	24 Acetone	43		3.418				ND	
	26 Carbon disulfide	76		3.625				ND	
	31 Methylene Chloride	84		4.124				ND	
	33 Acrylonitrile	53		4.501				ND	
	34 trans-1,2-Dichloroethene	96		4.568				ND	
	35 Methyl tert-butyl ether	73		4.574				ND	
	37 1,1-Dichloroethane	63		5.188				ND	
	43 cis-1,2-Dichloroethene	96	5.945	5.936	0.009	83	5570	1.94	
	44 2-Butanone (MEK)	43		5.949				ND	
	48 Chlorobromomethane	128		6.222				ND	
	50 Chloroform	83		6.368				ND	
	51 1,1,1-Trichloroethane	97		6.539				ND	
	53 Carbon tetrachloride	117		6.709				ND	
	56 Benzene	78		6.940				ND	
	57 1,2-Dichloroethane	62		7.013				ND	
	61 Trichloroethene	130	7.666	7.676	-0.010	1	1365	0.6178	M
	64 1,2-Dichloropropane	63		7.950				ND	
	65 1,4-Dioxane	88		8.029				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
68 Dichlorobromomethane	83		8.230				ND	
71 cis-1,3-Dichloropropene	75		8.674				ND	
72 4-Methyl-2-pentanone (MIBK	43		8.826				ND	
73 Toluene	91	9.011	9.009	0.002	51	3358	0.3067	
74 trans-1,3-Dichloropropene	75		9.252				ND	
76 1,1,2-Trichloroethane	97		9.447				ND	
77 Tetrachloroethene	164		9.526				ND	
79 2-Hexanone	43		9.659				ND	
81 Chlorodibromomethane	129		9.824				ND	
82 Ethylene Dibromide	107		9.939				ND	
84 Chlorobenzene	112		10.426				ND	
86 1,1,1,2-Tetrachloroethane	131		10.523				ND	
87 Ethylbenzene	106		10.523				ND	
88 m-Xylene & p-Xylene	106		10.657				ND	
89 o-Xylene	106		11.040				ND	
90 Styrene	104		11.059				ND	
91 Bromoform	173		11.241				ND	
96 1,1,2,2-Tetrachloroethane	83		11.716				ND	
S 131 Xylenes, Total	106		1.000				ND	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

VOA8260INT_00042	Amount Added:	2.00	Units: uL	Run Reagent
VOA8260SURR_00042	Amount Added:	2.00	Units: uL	Run Reagent

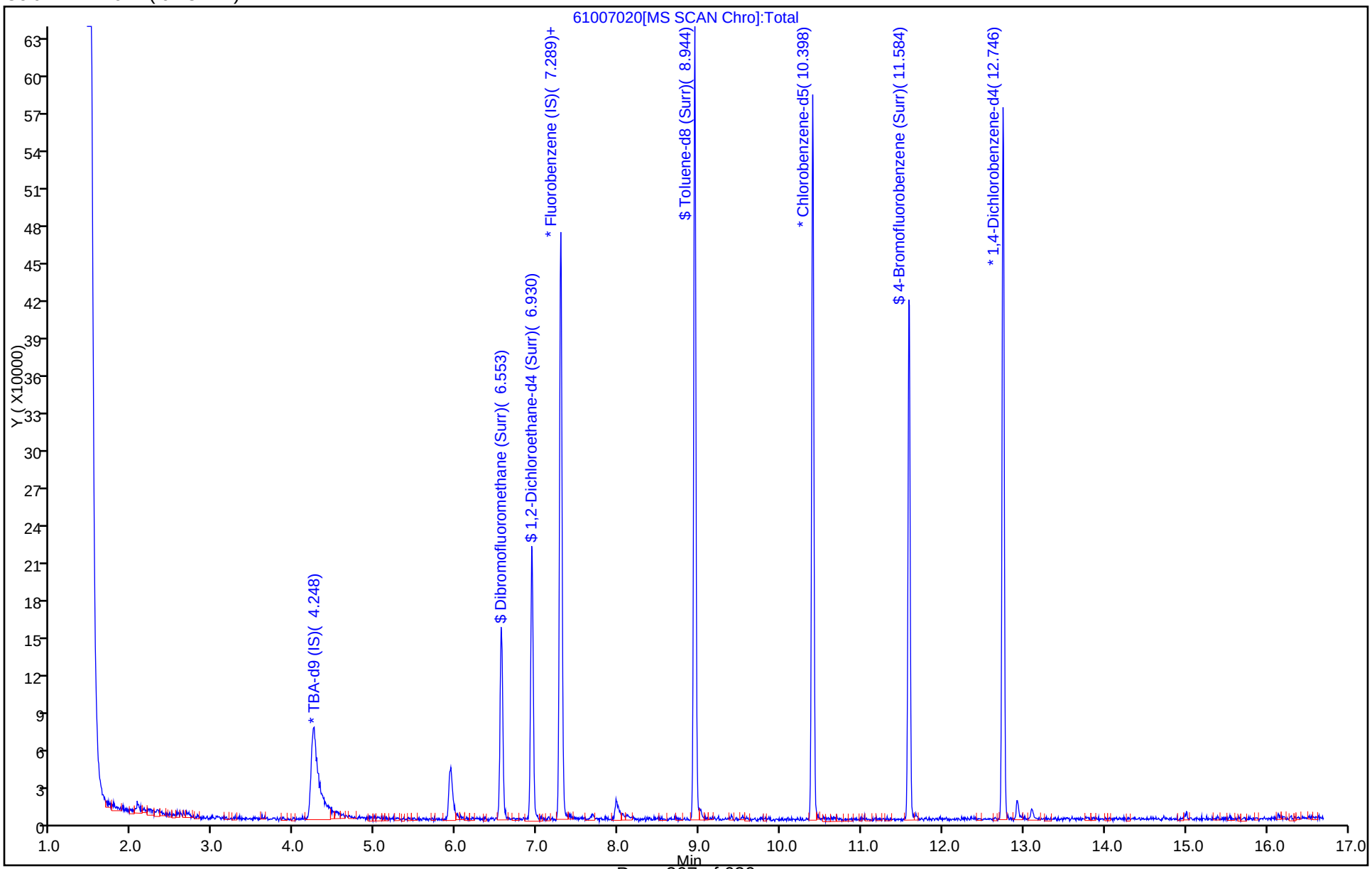
Report Date: 08-Oct-2015 08:54:39 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20151007-8874.b\61007020.D

Injection Date:	07-Oct-2015 20:27:30	Instrument ID:	CHHP6	Operator ID:	001562
Lims ID:	180-48309-A-3	Lab Sample ID:	180-48309-3	Worklist Smp#:	20
Client ID:	HD-MW-143D-0/1-0				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	20
Method:	MSVOA_LL_CHHP6	Limit Group:	VOA 8260C ICAL		

Column: DB-624 (0.18 mm)



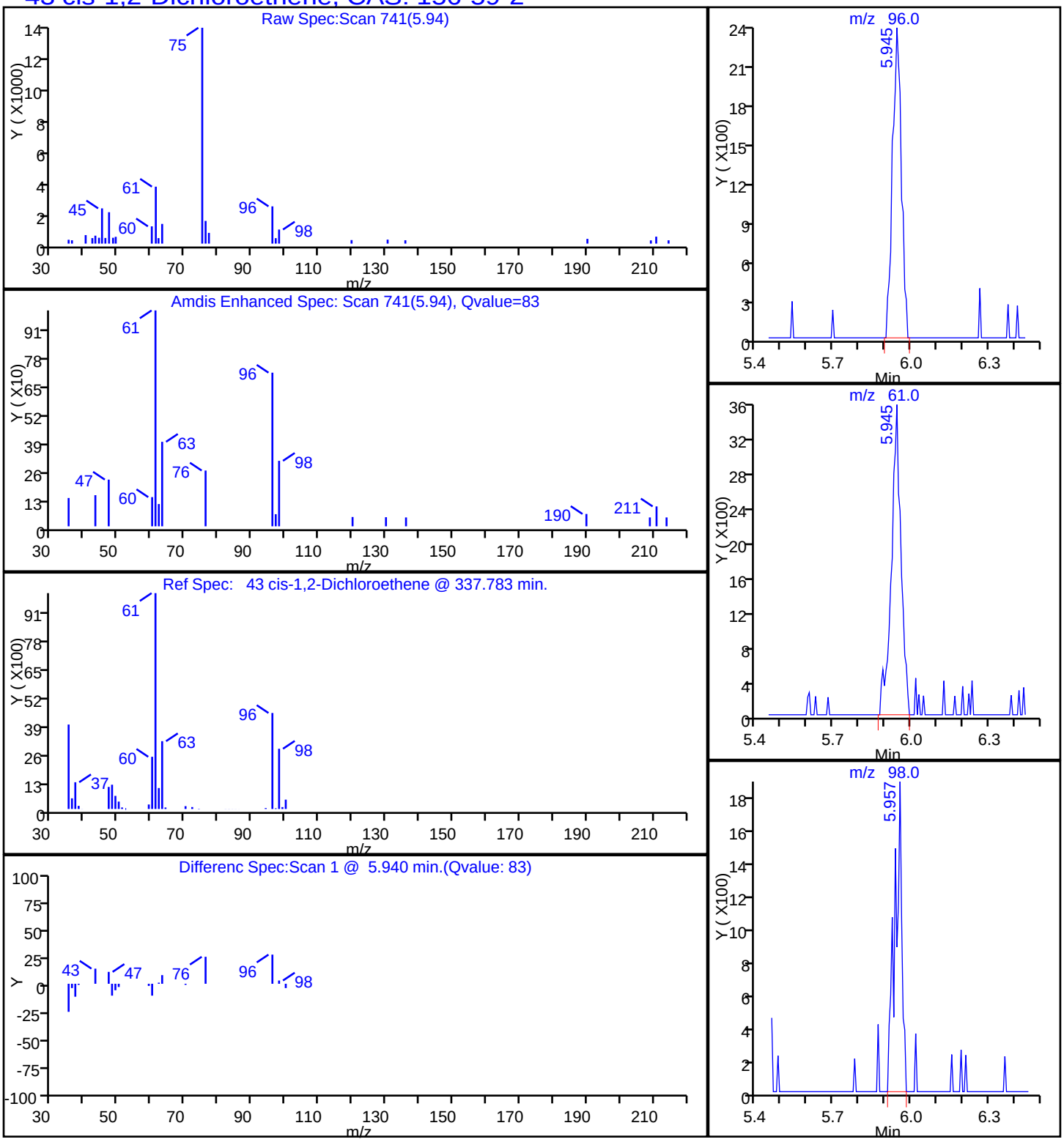
Report Date: 08-Oct-2015 08:54:40 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20151007-8874.b\61007020.D

Injection Date:	07-Oct-2015 20:27:30	Instrument ID:	CHHP6		
Lims ID:	180-48309-A-3	Lab Sample ID:	180-48309-3		
Client ID:	HD-MW-143D-0/1-0				
Operator ID:	001562	ALS Bottle#:	20	Worklist Smp#:	20
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVOA_LL_CHHP6	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

43 cis-1,2-Dichloroethene, CAS: 156-59-2



Manual Integration/User Assign Peak Report

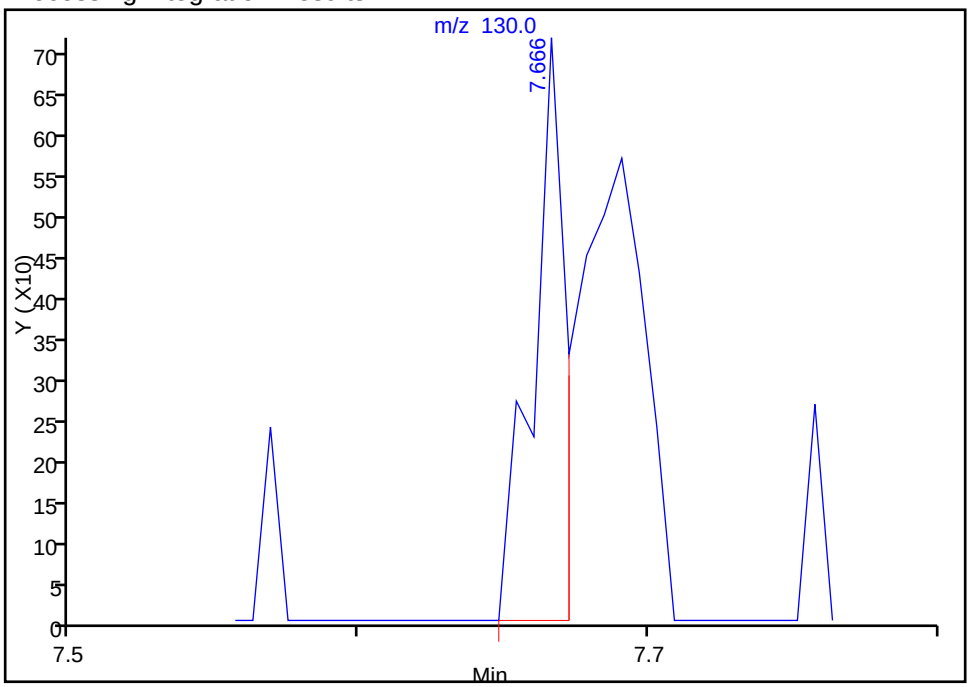
TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHHP6\20151007-8874.b\61007020.D				
Injection Date:	07-Oct-2015 20:27:30	Instrument ID:	CHHP6		
Lims ID:	180-48309-A-3	Lab Sample ID:	180-48309-3		
Client ID:	HD-MW-143D-0/1-0				
Operator ID:	001562	ALS Bottle#:	20	Worklist Smp#:	20
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVOA_LL_CHHP6	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

61 Trichloroethene, CAS: 79-01-6

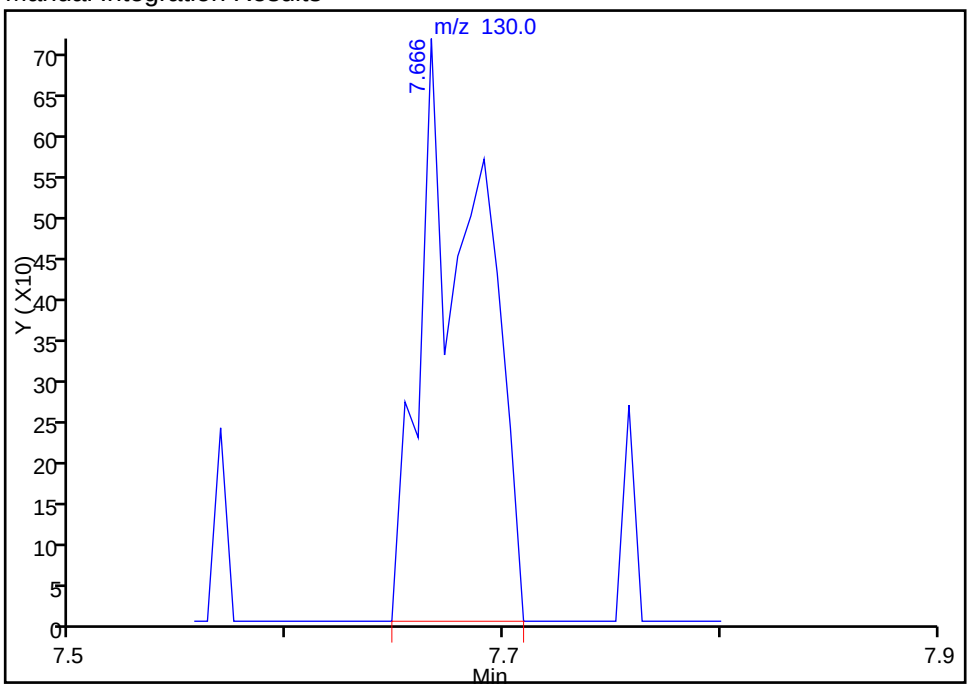
Processing Integration Results

RT: 7.67
Area: 565
Amount: 0.255715
Amount Units: ng



Manual Integration Results

RT: 7.67
Area: 1365
Amount: 0.617789
Amount Units: ng



Reviewer: fergusond, 08-Oct-2015 08:54:39
Audit Action: Manually Integrated
Audit Reason: Incomplete Integration

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-48309-1

SDG No.:

Client Sample ID: HD-MW-20M-0/1-0 | Lab Sample ID: 180-48309-4

Matrix: Water | Lab File ID: 61007021.D

Analysis Method: 8260C | Date Collected: 09/30/2015 08:45

Sample wt/vol: 5(mL) | Date Analyzed: 10/07/2015 20:51

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 156189 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	1.0	U	1.0	0.28
75-01-4	Vinyl chloride	1.0	U	1.0	0.23
74-83-9	Bromomethane	1.0	U ^c	1.0	0.31
75-00-3	Chloroethane	1.0	U	1.0	0.21
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.30
67-64-1	Acetone	5.0	U	5.0	2.5
75-15-0	Carbon disulfide	1.0	U	1.0	0.21
75-09-2	Methylene Chloride	1.0	U	1.0	0.13
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.17
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.18
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.12
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.24
74-97-5	Bromochloromethane	1.0	U	1.0	0.18
78-93-3	2-Butanone (MEK)	5.0	U	5.0	0.55
67-66-3	Chloroform	1.0		1.0	0.17
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.29
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.14
71-43-2	Benzene	1.0	U	1.0	0.11
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
79-01-6	Trichloroethene	13		1.0	0.14
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.095
75-27-4	Bromodichloromethane	1.0	U	1.0	0.13
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.19
108-10-1	4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	0.53
108-88-3	Toluene	1.0	U	1.0	0.15
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.15
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.20
127-18-4	Tetrachloroethene	0.30	J	1.0	0.15
591-78-6	2-Hexanone	5.0	U ^c	5.0	0.16
124-48-1	Dibromochloromethane	1.0	U	1.0	0.14
106-93-4	1,2-Dibromoethane (EDB)	1.0	U	1.0	0.18
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U ^c	1.0	0.28
100-41-4	Ethylbenzene	1.0	U	1.0	0.23
1330-20-7	Xylenes, Total	3.0	U	3.0	0.49
100-42-5	Styrene	1.0	U ^c	1.0	0.097

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-48309-1

SDG No.:

Client Sample ID: HD-MW-20M-0/1-0 | Lab Sample ID: 180-48309-4

Matrix: Water | Lab File ID: 61007021.D

Analysis Method: 8260C | Date Collected: 09/30/2015 08:45

Sample wt/vol: 5(mL) | Date Analyzed: 10/07/2015 20:51

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 156189 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-25-2	Bromoform	1.0	U ^c	1.0	0.19
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.20
107-13-1	Acrylonitrile	20	U ^c	20	0.55
123-91-1	1,4-Dioxane	200	U ^c	200	34

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	108		64-135
2037-26-5	Toluene-d8 (Surr)	108		71-118
460-00-4	4-Bromofluorobenzene (Surr)	91		70-118
1868-53-7	Dibromofluoromethane (Surr)	106		70-128

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20151007-8874.b\61007021.D
Lims ID: 180-48309-A-4 Lab Sample ID: 180-48309-4
Client ID: HD-MW-20M-0/1-0
Sample Type: Client
Inject. Date: 07-Oct-2015 20:51:30 ALS Bottle#: 21 Worklist Smp#: 21
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 180-48309-A-4
Misc. Info.: 180-0008874-021
Operator ID: 001562 Instrument ID: CHHP6

Method: \\ChromNA\Pittsburgh\ChromData\CHHP6\20151007-8874.b\MSVOA_LL_CHHP6.m
Limit Group: VOA 8260C ICAL
Last Update: 08-Oct-2015 08:55:47 Calib Date: 14-Sep-2015 16:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150914-8521.b\60914006.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK015

First Level Reviewer: fergusond Date: 08-Oct-2015 08:55:47

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.238	4.245	-0.007	87	173701	1000.0	
* 2 Fluorobenzene (IS)	96	7.292	7.281	0.011	98	441634	50.0	
* 3 Chlorobenzene-d5	119	10.400	10.396	0.004	91	100924	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.748	12.750	-0.002	97	172151	50.0	
$ 5 Dibromofluoromethane (Surr	113	6.555	6.551	0.004	91	108175	53.2	
$ 6 1,2-Dichloroethane-d4 (Sur	65	6.933	6.928	0.005	70	177059	54.0	
$ 7 Toluene-d8 (Surr)	98	8.946	8.942	0.004	94	429634	54.0	
$ 8 4-Bromofluorobenzene (Surr	95	11.586	11.588	-0.002	85	160592	45.4	
12 Chloromethane	50	1.762	1.757	0.005	33	3554	1.35	M
13 Vinyl chloride	62		1.903				ND	
15 Bromomethane	94		2.232				ND	
16 Chloroethane	64		2.371				ND	
22 1,1-Dichloroethene	96		3.339				ND	
24 Acetone	43		3.418				ND	
26 Carbon disulfide	76		3.625				ND	
31 Methylene Chloride	84		4.124				ND	
33 Acrylonitrile	53		4.501				ND	
34 trans-1,2-Dichloroethene	96		4.568				ND	
35 Methyl tert-butyl ether	73	4.578	4.574	0.004	35	3188	0.4147	
37 1,1-Dichloroethane	63		5.188				ND	
43 cis-1,2-Dichloroethene	96	5.947	5.936	0.011	41	2248	0.8058	
44 2-Butanone (MEK)	43		5.949				ND	
48 Chlorobromomethane	128		6.222				ND	
50 Chloroform	83	6.373	6.368	0.005	95	22804	5.00	
51 1,1,1-Trichloroethane	97		6.539				ND	
53 Carbon tetrachloride	117		6.709				ND	
56 Benzene	78		6.940				ND	
57 1,2-Dichloroethane	62		7.013				ND	
61 Trichloroethene	130	7.681	7.676	0.005	96	138577	64.6	
64 1,2-Dichloropropane	63		7.950				ND	
65 1,4-Dioxane	88		8.029				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
68 Dichlorobromomethane	83		8.230				ND	
71 cis-1,3-Dichloropropene	75		8.674				ND	
72 4-Methyl-2-pentanone (MIBK	43		8.826				ND	
73 Toluene	91		9.009				ND	
74 trans-1,3-Dichloropropene	75		9.252				ND	
76 1,1,2-Trichloroethane	97		9.447				ND	
77 Tetrachloroethene	164	9.524	9.526	-0.002	91	2666	1.50	
79 2-Hexanone	43		9.659				ND	
81 Chlorodibromomethane	129		9.824				ND	
82 Ethylene Dibromide	107		9.939				ND	
84 Chlorobenzene	112		10.426				ND	
86 1,1,1,2-Tetrachloroethane	131		10.523				ND	
87 Ethylbenzene	106		10.523				ND	
88 m-Xylene & p-Xylene	106		10.657				ND	
89 o-Xylene	106		11.040				ND	
90 Styrene	104		11.059				ND	
91 Bromoform	173		11.241				ND	
96 1,1,2,2-Tetrachloroethane	83		11.716				ND	
S 131 Xylenes, Total	106		1.000				ND	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

VOA8260INT_00042	Amount Added:	2.00	Units: uL	Run Reagent
VOA8260SURR_00042	Amount Added:	2.00	Units: uL	Run Reagent

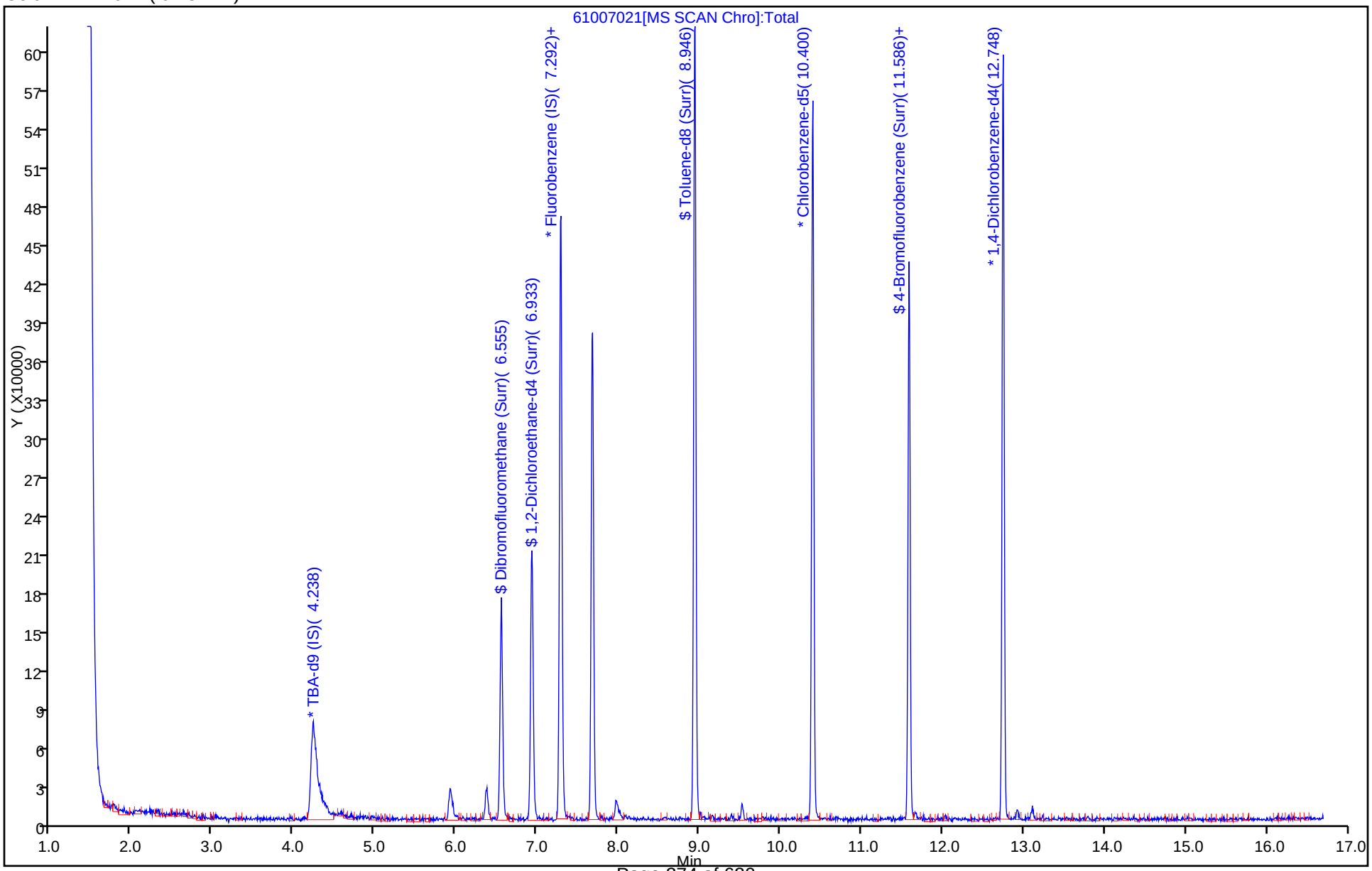
Report Date: 08-Oct-2015 08:55:48 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20151007-8874.b\61007021.D

Injection Date:	07-Oct-2015 20:51:30	Instrument ID:	CHHP6	Operator ID:	001562
Lims ID:	180-48309-A-4	Lab Sample ID:	180-48309-4	Worklist Smp#:	21
Client ID:	HD-MW-20M-0/1-0				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	21
Method:	MSVOA_LL_CHHP6	Limit Group:	VOA 8260C ICAL		

Column: DB-624 (0.18 mm)



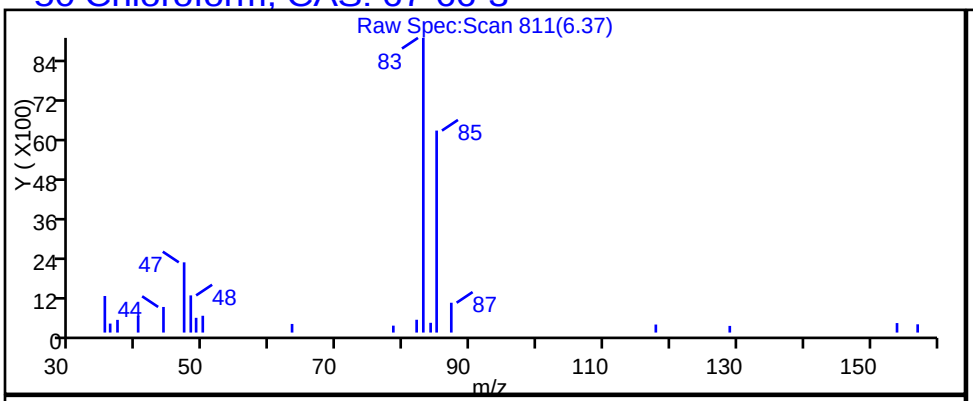
Report Date: 08-Oct-2015 08:55:48 Chrom Revision: 2.2 08-Sep-2015 13:41:46

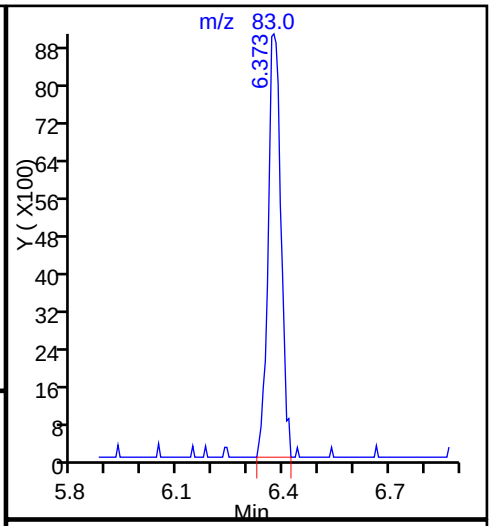
TestAmerica Pittsburgh

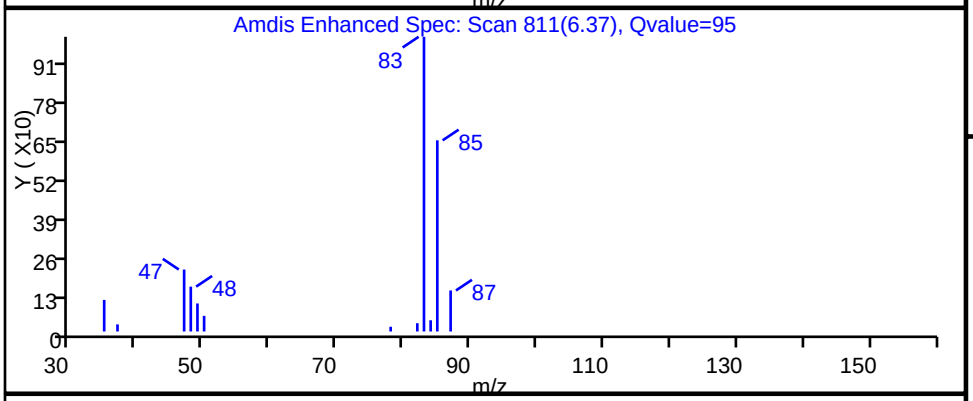
Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20151007-8874.b\61007021.D

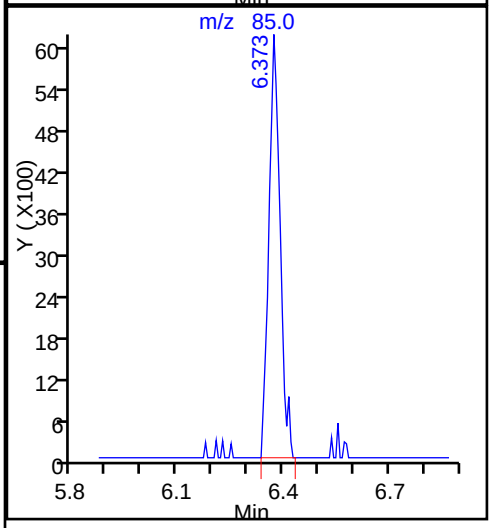
Injection Date:	07-Oct-2015 20:51:30	Instrument ID:	CHHP6		
Lims ID:	180-48309-A-4	Lab Sample ID:	180-48309-4		
Client ID:	HD-MW-20M-0/1-0				
Operator ID:	001562	ALS Bottle#:	21	Worklist Smp#:	21
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVOA_LL_CHHP6	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

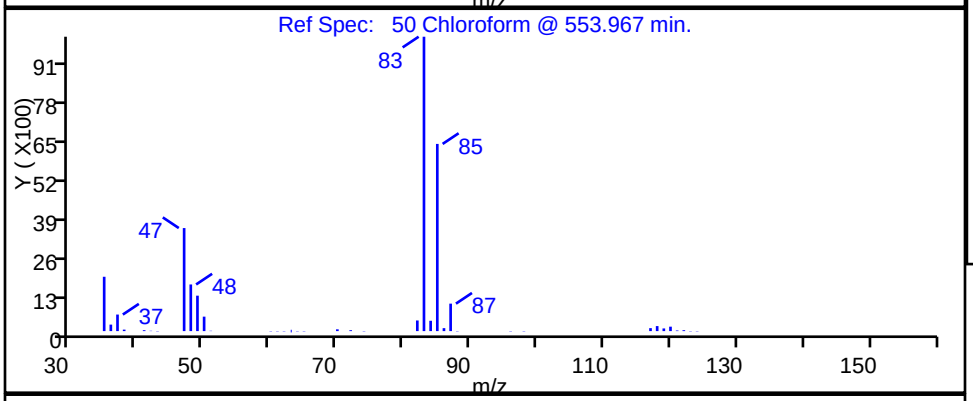
50 Chloroform, CAS: 67-66-3

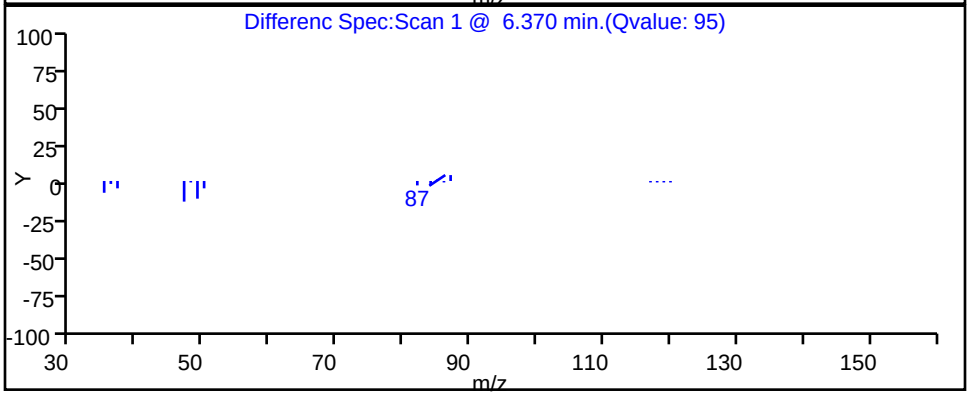












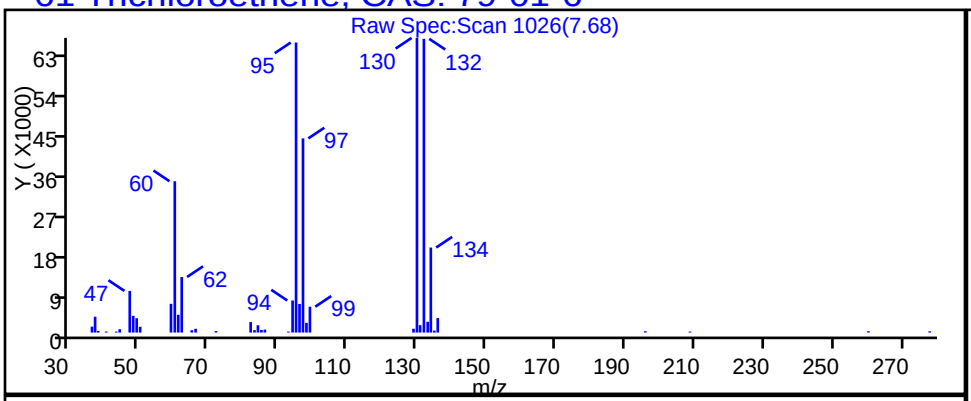
Report Date: 08-Oct-2015 08:55:48 Chrom Revision: 2.2 08-Sep-2015 13:41:46

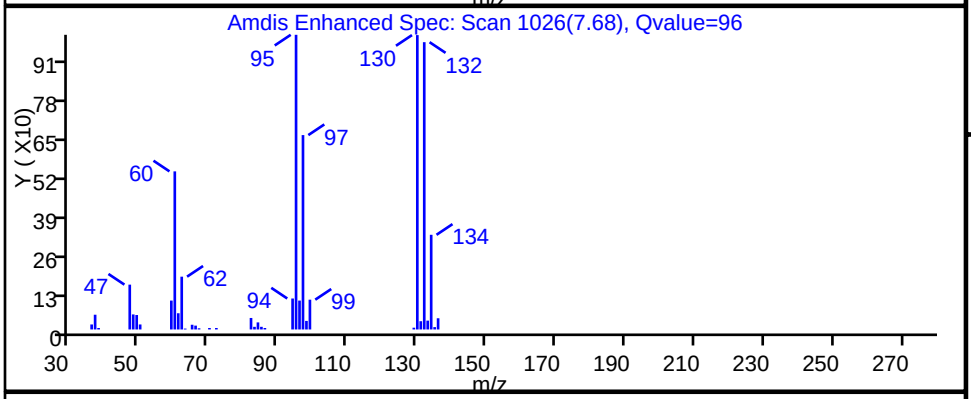
TestAmerica Pittsburgh

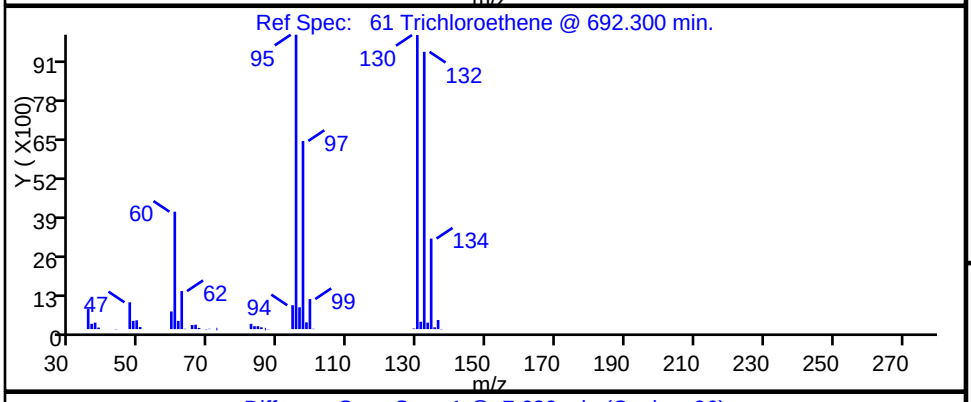
Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20151007-8874.b\61007021.D

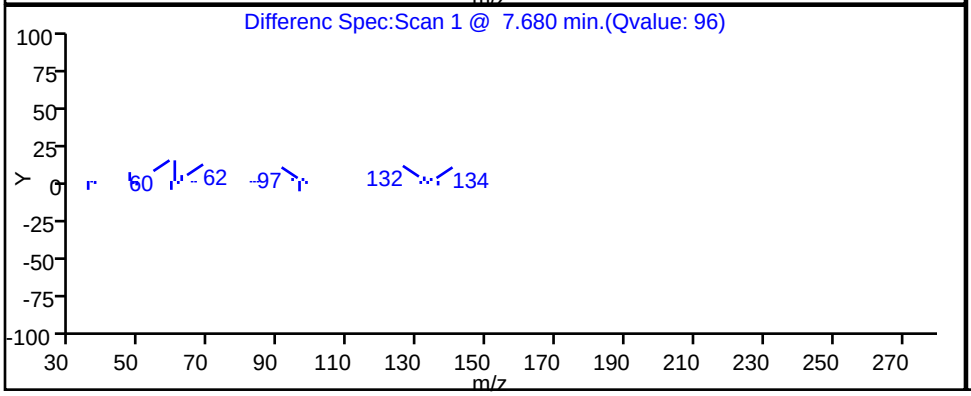
Injection Date:	07-Oct-2015 20:51:30	Instrument ID:	CHHP6		
Lims ID:	180-48309-A-4	Lab Sample ID:	180-48309-4		
Client ID:	HD-MW-20M-0/1-0				
Operator ID:	001562	ALS Bottle#:	21	Worklist Smp#:	21
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVOA_LL_CHHP6	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

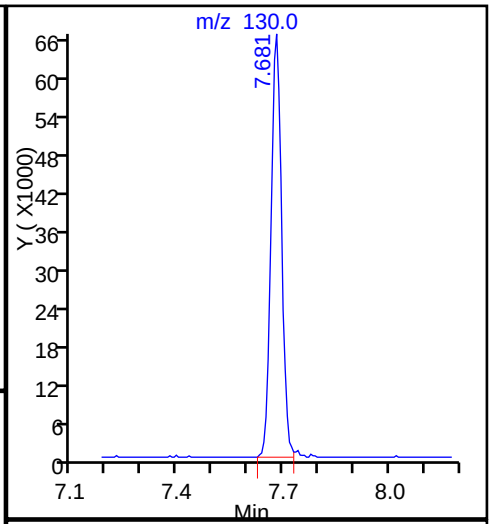
61 Trichloroethene, CAS: 79-01-6

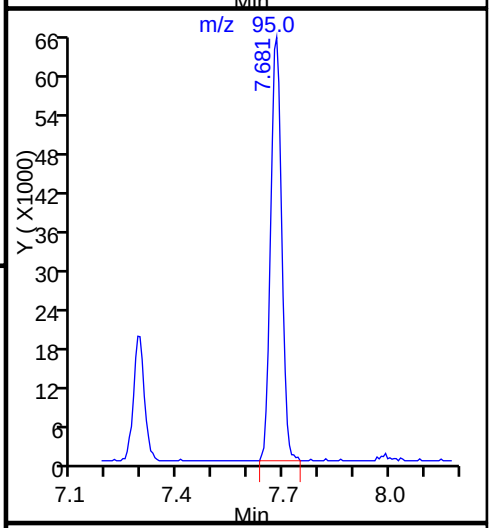


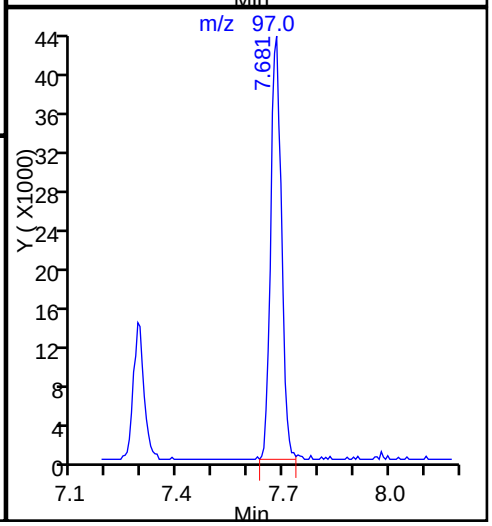












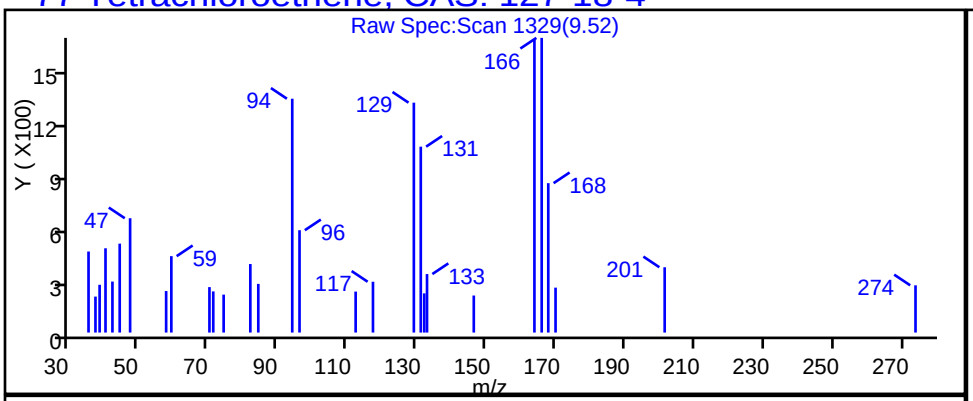
Report Date: 08-Oct-2015 08:55:48 Chrom Revision: 2.2 08-Sep-2015 13:41:46

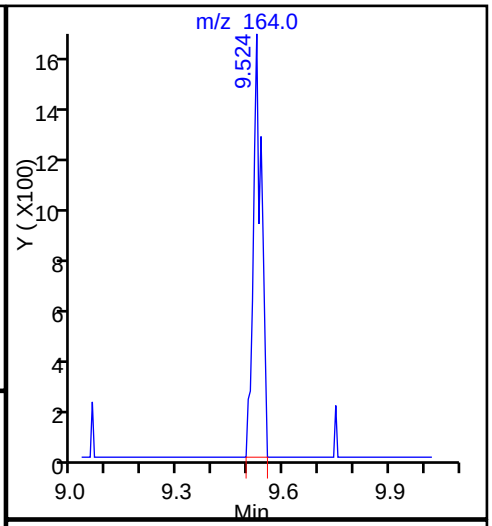
TestAmerica Pittsburgh

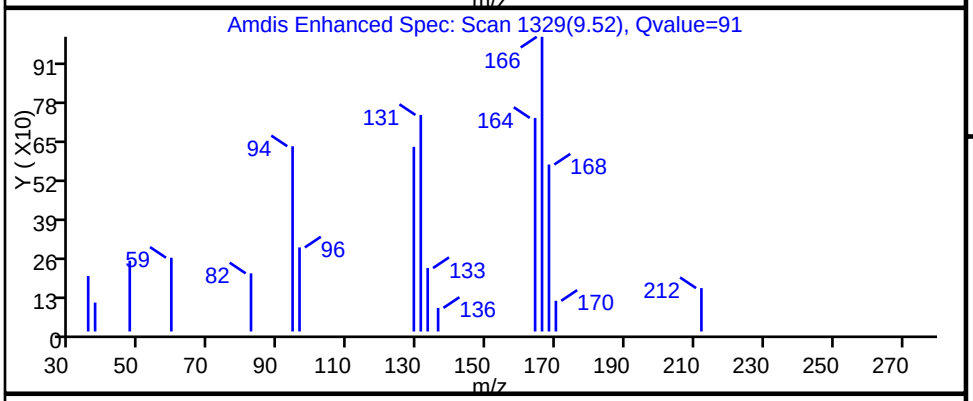
Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20151007-8874.b\61007021.D

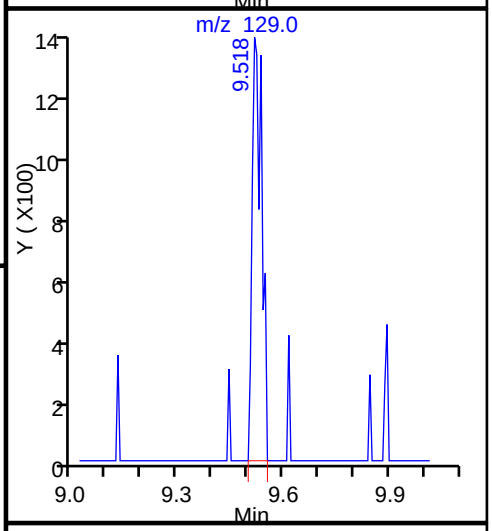
Injection Date:	07-Oct-2015 20:51:30	Instrument ID:	CHHP6		
Lims ID:	180-48309-A-4	Lab Sample ID:	180-48309-4		
Client ID:	HD-MW-20M-0/1-0				
Operator ID:	001562	ALS Bottle#:	21	Worklist Smp#:	21
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVOA_LL_CHHP6	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

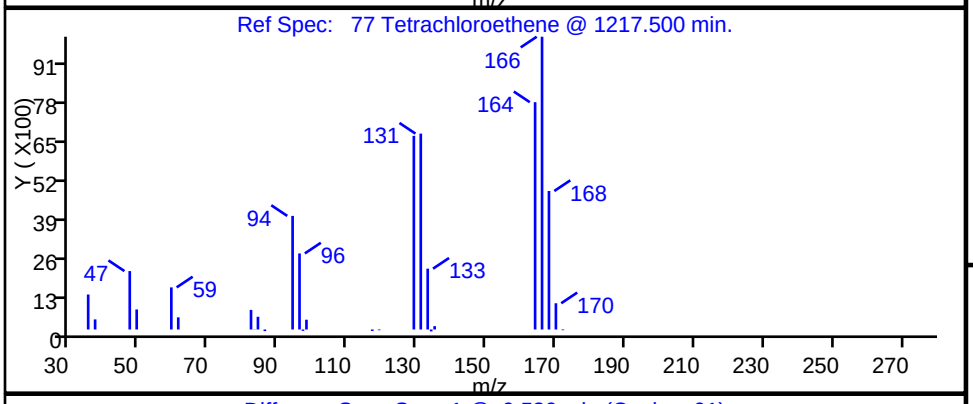
77 Tetrachloroethene, CAS: 127-18-4

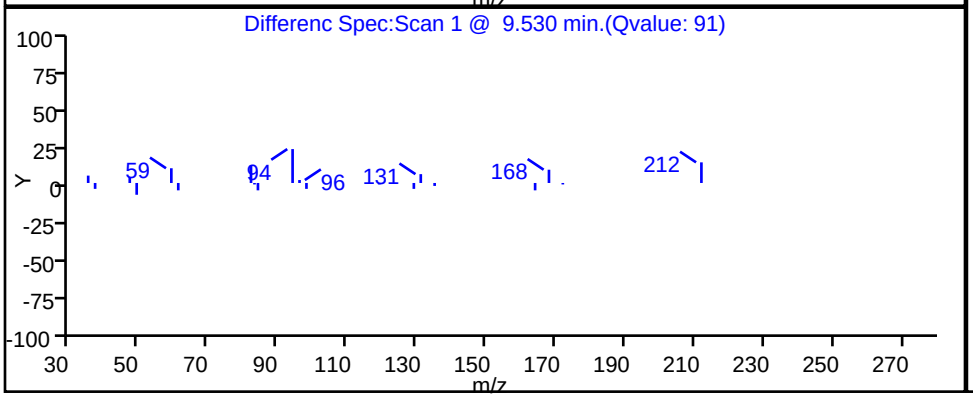


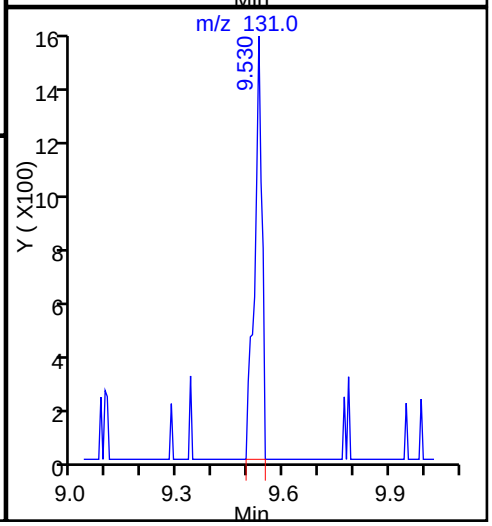












Manual Integration/User Assign Peak Report

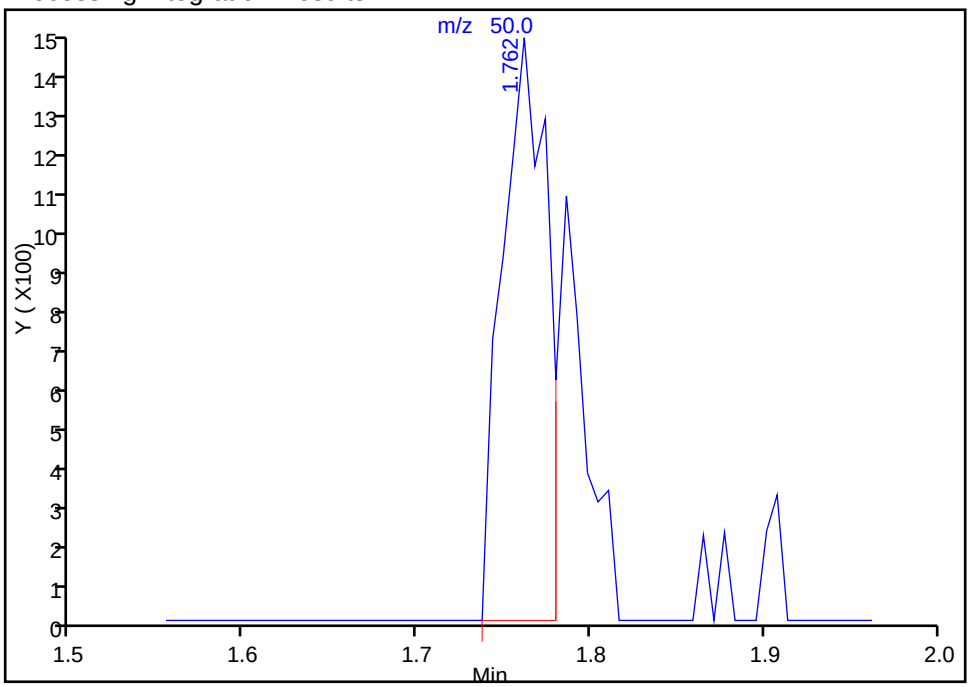
TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHHP6\20151007-8874.b\61007021.D				
Injection Date:	07-Oct-2015 20:51:30	Instrument ID:	CHHP6		
Lims ID:	180-48309-A-4	Lab Sample ID:	180-48309-4		
Client ID:	HD-MW-20M-0/1-0				
Operator ID:	001562	ALS Bottle#:	21	Worklist Smp#:	21
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVOA_LL_CHHP6	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

12 Chloromethane, CAS: 74-87-3

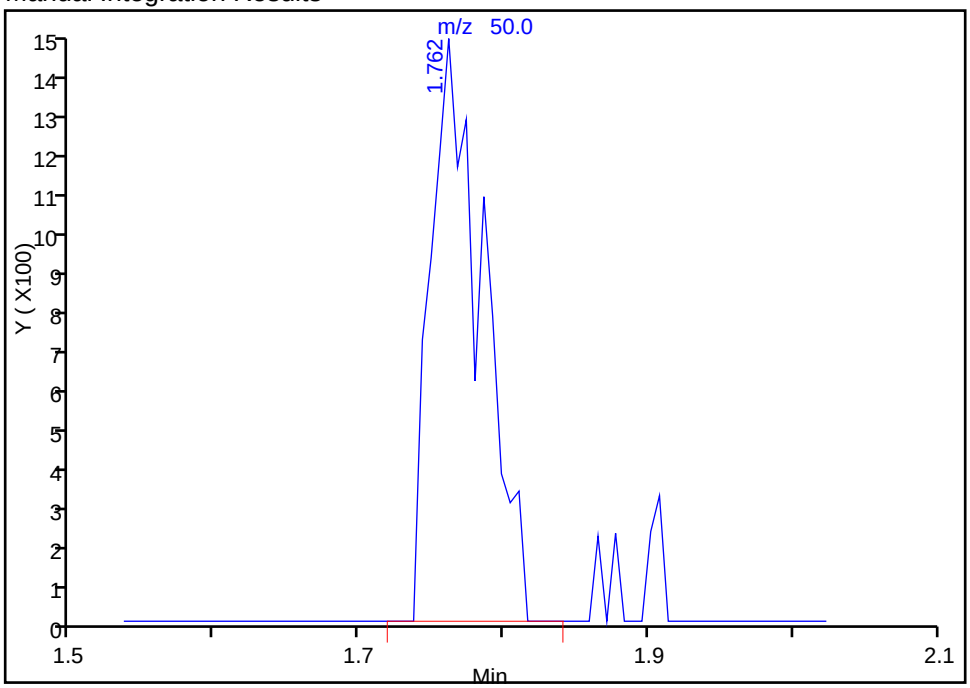
Processing Integration Results

RT: 1.76
Area: 2559
Amount: 0.970899
Amount Units: ng



Manual Integration Results

RT: 1.76
Area: 3554
Amount: 1.348407
Amount Units: ng



Reviewer: fergusond, 08-Oct-2015 08:55:47
Audit Action: Manually Integrated
Audit Reason: Incomplete Integration

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-48309-1

SDG No.:

Client Sample ID: HD-MW-92-0/1-0 | Lab Sample ID: 180-48309-5

Matrix: Water | Lab File ID: 61007028.D

Analysis Method: 8260C | Date Collected: 09/30/2015 08:25

Sample wt/vol: 5(mL) | Date Analyzed: 10/07/2015 23:42

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 156189 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	1.0	U	1.0	0.28
75-01-4	Vinyl chloride	1.0	U	1.0	0.23
74-83-9	Bromomethane	1.0	U ^c	1.0	0.31
75-00-3	Chloroethane	1.0	U	1.0	0.21
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.30
67-64-1	Acetone	5.0	U	5.0	2.5
75-15-0	Carbon disulfide	1.0	U	1.0	0.21
75-09-2	Methylene Chloride	1.0	U	1.0	0.13
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.17
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.18
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.12
156-59-2	cis-1,2-Dichloroethene	0.31	J	1.0	0.24
74-97-5	Bromochloromethane	1.0	U	1.0	0.18
78-93-3	2-Butanone (MEK)	5.0	U	5.0	0.55
67-66-3	Chloroform	1.0	U	1.0	0.17
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.29
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.14
71-43-2	Benzene	1.0	U	1.0	0.11
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
79-01-6	Trichloroethene	12		1.0	0.14
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.095
75-27-4	Bromodichloromethane	1.0	U	1.0	0.13
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.19
108-10-1	4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	0.53
108-88-3	Toluene	1.0	U	1.0	0.15
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.15
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.20
127-18-4	*Tetrachloroethene*	*150*	*E*	*1.0*	*0.15*
591-78-6	2-Hexanone	5.0	U ^c	5.0	0.16
124-48-1	Dibromochloromethane	1.0	U	1.0	0.14
106-93-4	1,2-Dibromoethane (EDB)	1.0	U	1.0	0.18
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U ^c	1.0	0.28
100-41-4	Ethylbenzene	1.0	U	1.0	0.23
1330-20-7	Xylenes, Total	3.0	U	3.0	0.49
100-42-5	Styrene	1.0	U ^c	1.0	0.097

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-48309-1

SDG No.:

Client Sample ID: HD-MW-92-0/1-0 | Lab Sample ID: 180-48309-5

Matrix: Water | Lab File ID: 61007028.D

Analysis Method: 8260C | Date Collected: 09/30/2015 08:25

Sample wt/vol: 5(mL) | Date Analyzed: 10/07/2015 23:42

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 156189 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-25-2	Bromoform	1.0	U ^c	1.0	0.19
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.20
107-13-1	Acrylonitrile	20	U ^c	20	0.55
123-91-1	1,4-Dioxane	200	U ^c	200	34

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		64-135
2037-26-5	Toluene-d8 (Surr)	103		71-118
460-00-4	4-Bromofluorobenzene (Surr)	85		70-118
1868-53-7	Dibromofluoromethane (Surr)	111		70-128

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20151007-8874.b\61007028.D
Lims ID: 180-48309-C-5 Lab Sample ID: 180-48309-5
Client ID: HD-MW-92-0/1-0
Sample Type: Client
Inject. Date: 07-Oct-2015 23:42:30 ALS Bottle#: 28 Worklist Smp#: 28
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 180-48309-C-5
Misc. Info.: 180-0008874-028
Operator ID: 001562 Instrument ID: CHHP6

Method: \\ChromNA\Pittsburgh\ChromData\CHHP6\20151007-8874.b\MSVOA_LL_CHHP6.m
Limit Group: VOA 8260C ICAL
Last Update: 08-Oct-2015 09:01:50 Calib Date: 14-Sep-2015 16:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150914-8521.b\60914006.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK015

First Level Reviewer: fergusond Date: 08-Oct-2015 09:01:49

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.239	4.245	-0.006	86	173107	1000.0	
* 2 Fluorobenzene (IS)	96	7.287	7.281	0.006	98	427278	50.0	
* 3 Chlorobenzene-d5	119	10.395	10.396	-0.001	90	104084	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.750	12.750	0.000	97	164814	50.0	
$ 5 Dibromofluoromethane (Surr	113	6.557	6.551	0.006	93	108887	55.3	
$ 6 1,2-Dichloroethane-d4 (Sur	65	6.928	6.928	0.000	71	165822	52.2	
$ 7 Toluene-d8 (Surr)	98	8.941	8.942	-0.001	94	422174	51.4	
$ 8 4-Bromofluorobenzene (Surr	95	11.588	11.588	0.000	88	155222	42.6	
12 Chloromethane	50	1.757	1.757	0.000	1	2533	0.99	M
13 Vinyl chloride	62		1.903				ND	
15 Bromomethane	94		2.232				ND	
16 Chloroethane	64		2.371				ND	
22 1,1-Dichloroethene	96		3.339				ND	
24 Acetone	43		3.418				ND	
26 Carbon disulfide	76		3.625				ND	
31 Methylene Chloride	84		4.124				ND	
33 Acrylonitrile	53		4.501				ND	
34 trans-1,2-Dichloroethene	96		4.568				ND	
35 Methyl tert-butyl ether	73		4.574				ND	
37 1,1-Dichloroethane	63		5.188				ND	
43 cis-1,2-Dichloroethene	96	5.936	5.936	0.000	44	4119	1.53	M
44 2-Butanone (MEK)	43		5.949				ND	
48 Chlorobromomethane	128		6.222				ND	
50 Chloroform	83	6.380	6.368	0.012	31	3552	0.8053	
51 1,1,1-Trichloroethane	97		6.539				ND	
53 Carbon tetrachloride	117		6.709				ND	
56 Benzene	78		6.940				ND	
57 1,2-Dichloroethane	62		7.013				ND	
61 Trichloroethene	130	7.676	7.676	0.000	96	125465	60.4	
64 1,2-Dichloropropane	63		7.950				ND	
65 1,4-Dioxane	88		8.029				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
68 Dichlorobromomethane	83		8.230				ND	
71 cis-1,3-Dichloropropene	75		8.674				ND	
72 4-Methyl-2-pentanone (MIBK	43		8.826				ND	
73 Toluene	91		9.009				ND	
74 trans-1,3-Dichloropropene	75		9.252				ND	
76 1,1,2-Trichloroethane	97		9.447				ND	
77 Tetrachloroethene	164	9.525	9.526	-0.001	93	1341632	732.4	E
79 2-Hexanone	43		9.659				ND	
81 Chlorodibromomethane	129		9.824				ND	
82 Ethylene Dibromide	107		9.939				ND	
84 Chlorobenzene	112		10.426				ND	
86 1,1,1,2-Tetrachloroethane	131		10.523				ND	
87 Ethylbenzene	106		10.523				ND	
88 m-Xylene & p-Xylene	106		10.657				ND	
89 o-Xylene	106		11.040				ND	
90 Styrene	104		11.059				ND	
91 Bromoform	173		11.241				ND	
96 1,1,2,2-Tetrachloroethane	83		11.716				ND	
S 131 Xylenes, Total	106		1.000				ND	

QC Flag Legend

Processing Flags

E - Exceeded Maximum Amount

Review Flags

M - Manually Integrated

Reagents:

VOA8260INT_00042	Amount Added:	2.00	Units: uL	Run Reagent
VOA8260SURR_00042	Amount Added:	2.00	Units: uL	Run Reagent

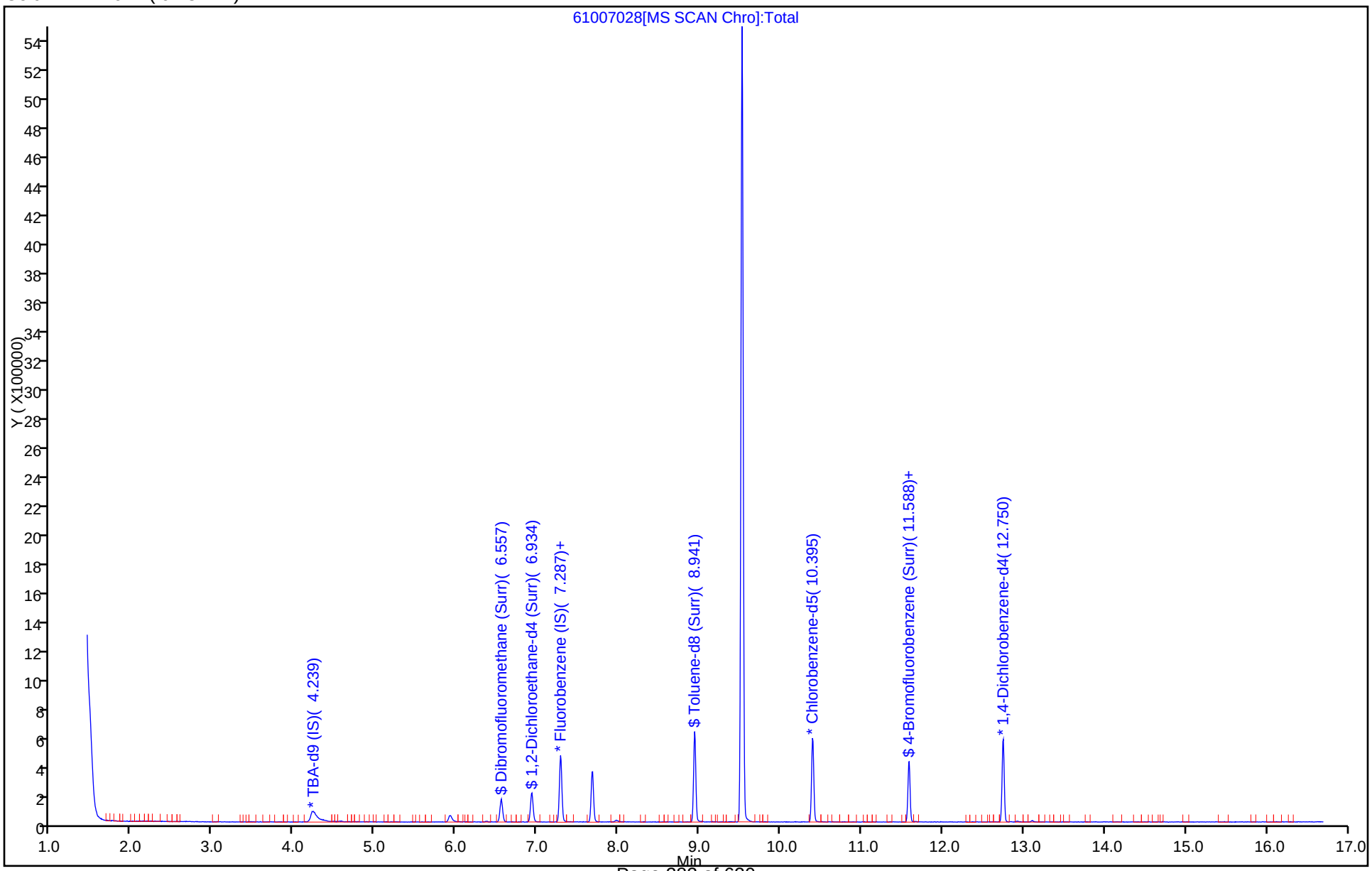
Report Date: 08-Oct-2015 09:01:51 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20151007-8874.b\61007028.D

Injection Date:	07-Oct-2015 23:42:30	Instrument ID:	CHHP6	Operator ID:	001562
Lims ID:	180-48309-C-5	Lab Sample ID:	180-48309-5	Worklist Smp#:	28
Client ID:	HD-MW-92-0/1-0				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	28
Method:	MSVOA_LL_CHHP6	Limit Group:	VOA 8260C ICAL		

Column: DB-624 (0.18 mm)



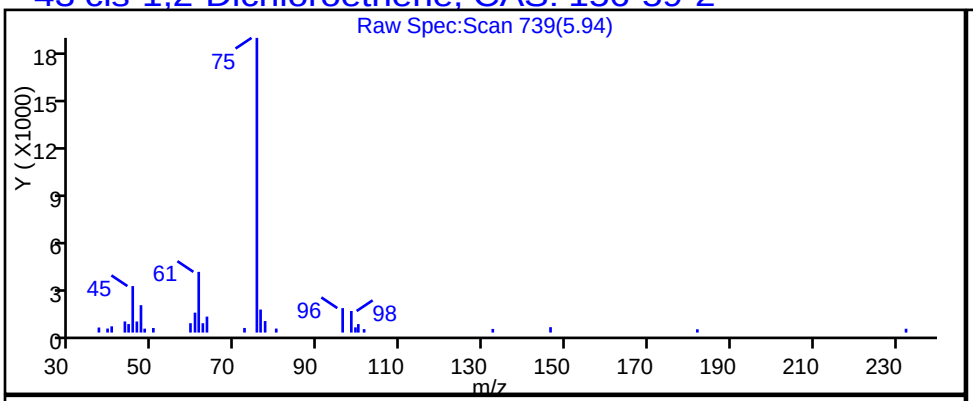
Report Date: 08-Oct-2015 09:01:51 Chrom Revision: 2.2 08-Sep-2015 13:41:46

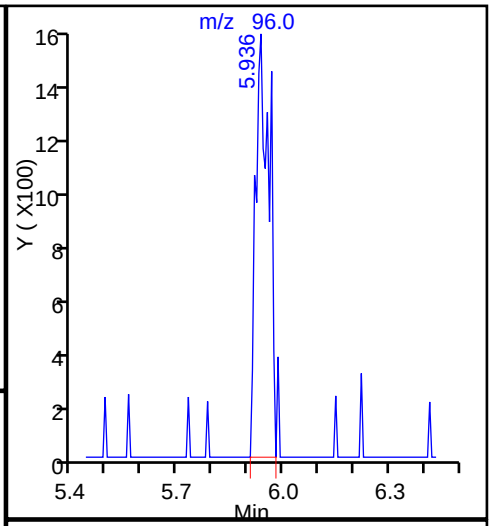
TestAmerica Pittsburgh

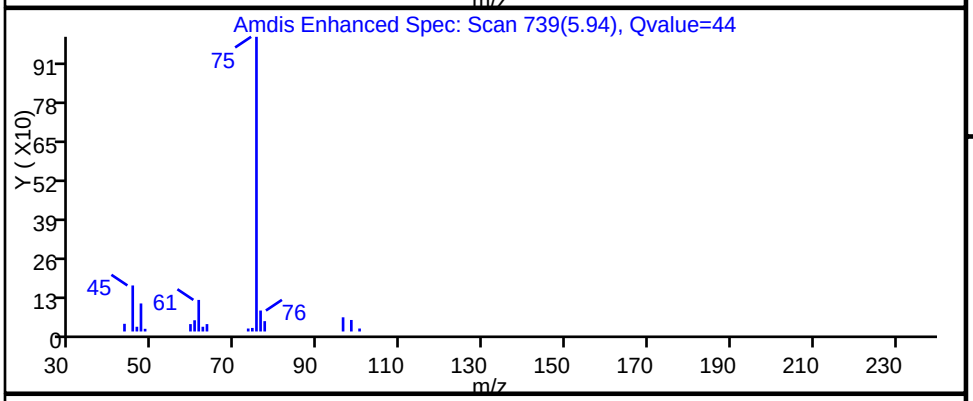
Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20151007-8874.b\61007028.D

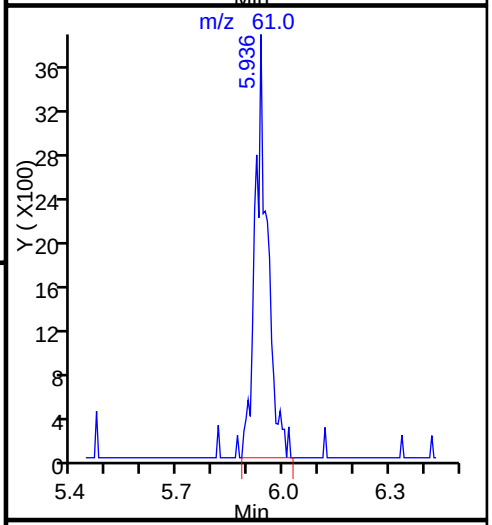
Injection Date:	07-Oct-2015 23:42:30	Instrument ID:	CHHP6		
Lims ID:	180-48309-C-5	Lab Sample ID:	180-48309-5		
Client ID:	HD-MW-92-0/1-0				
Operator ID:	001562	ALS Bottle#:	28	Worklist Smp#:	28
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVOA_LL_CHHP6	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

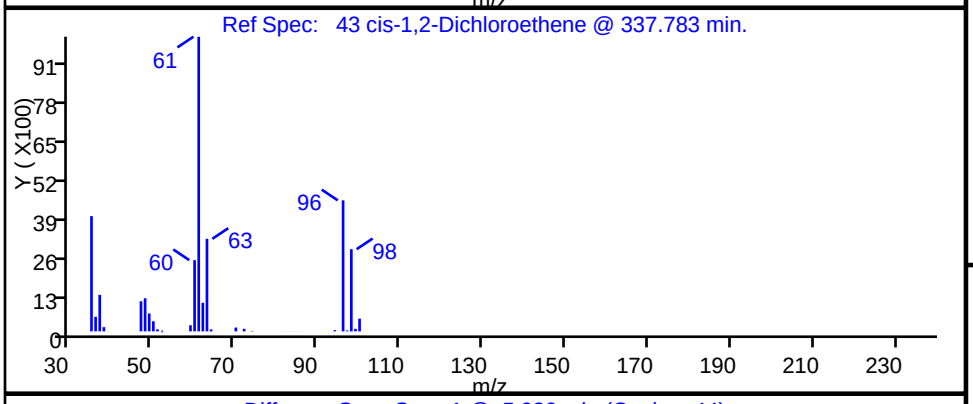
43 cis-1,2-Dichloroethene, CAS: 156-59-2

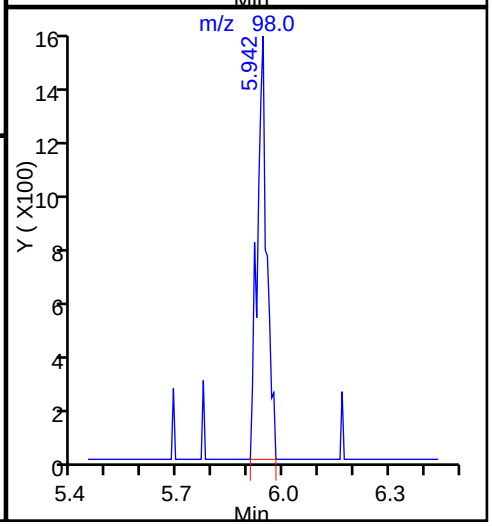


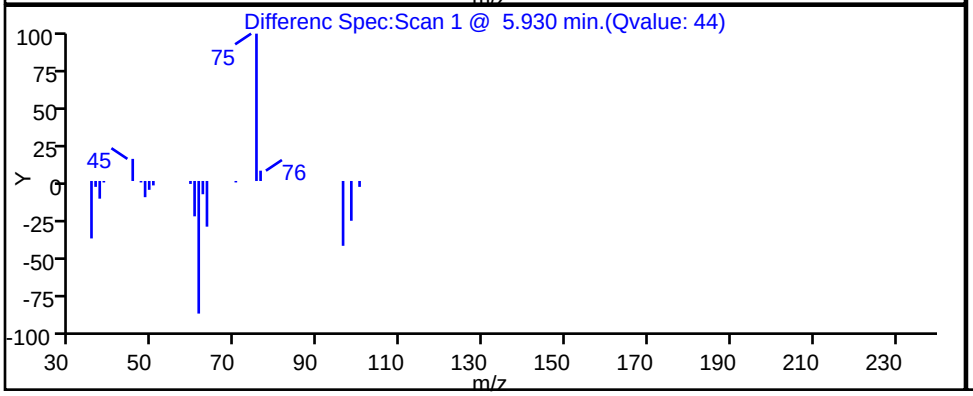












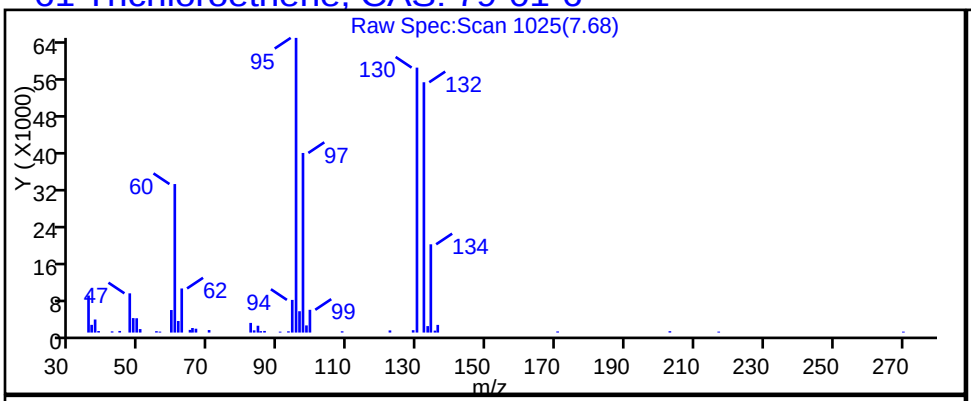
Report Date: 08-Oct-2015 09:01:51 Chrom Revision: 2.2 08-Sep-2015 13:41:46

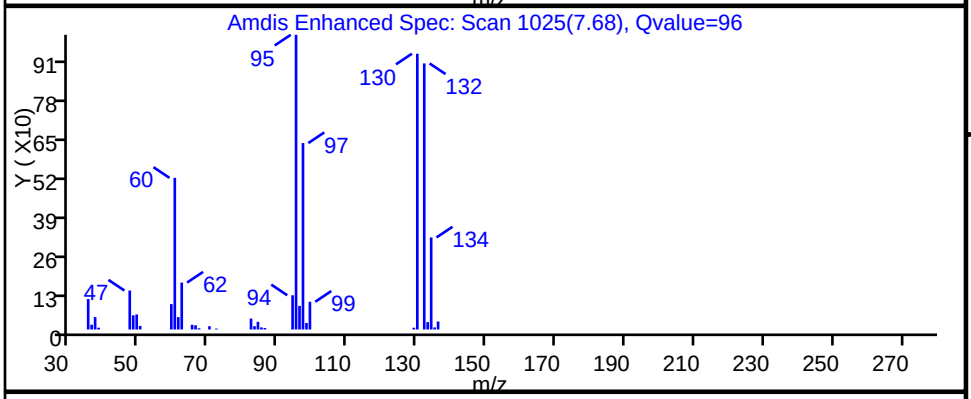
TestAmerica Pittsburgh

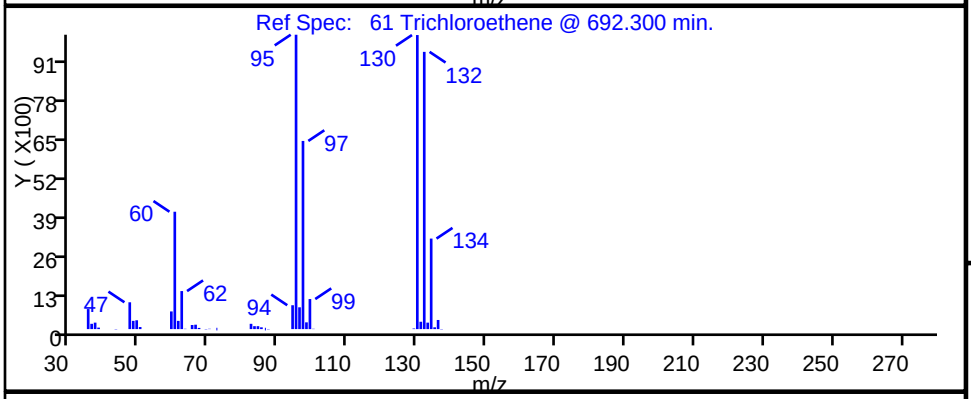
Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20151007-8874.b\61007028.D

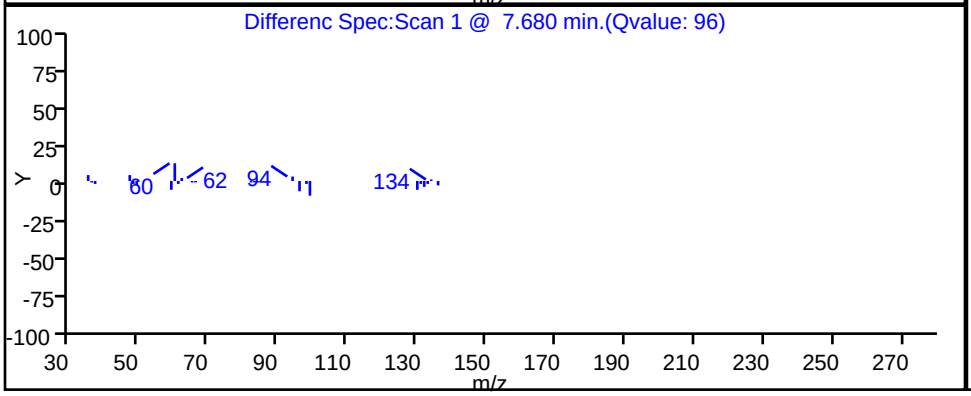
Injection Date:	07-Oct-2015 23:42:30	Instrument ID:	CHHP6		
Lims ID:	180-48309-C-5	Lab Sample ID:	180-48309-5		
Client ID:	HD-MW-92-0/1-0				
Operator ID:	001562	ALS Bottle#:	28	Worklist Smp#:	28
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVOA_LL_CHHP6	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

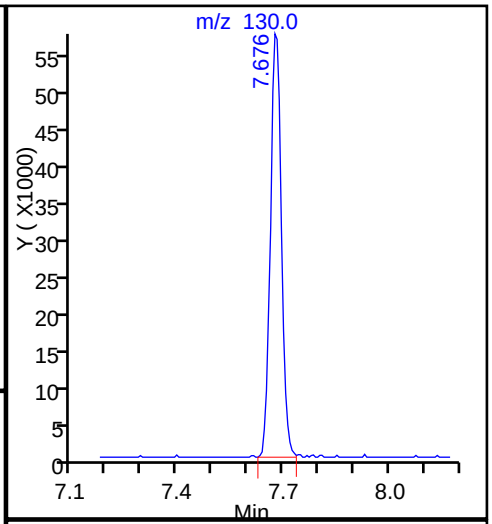
61 Trichloroethene, CAS: 79-01-6

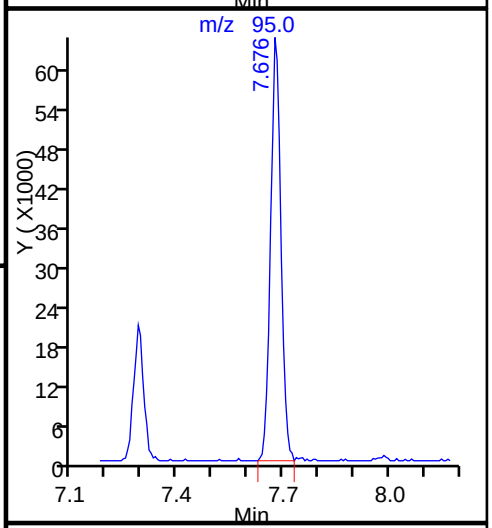


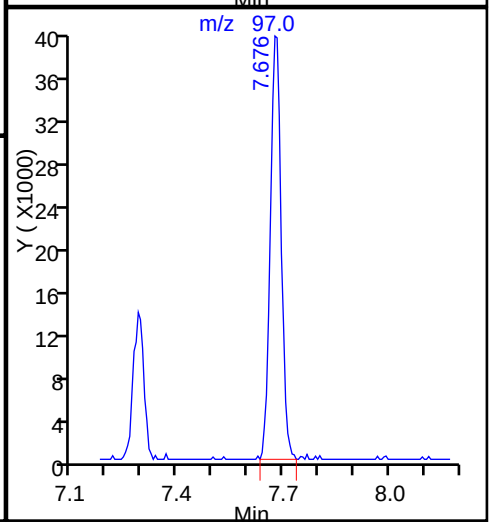












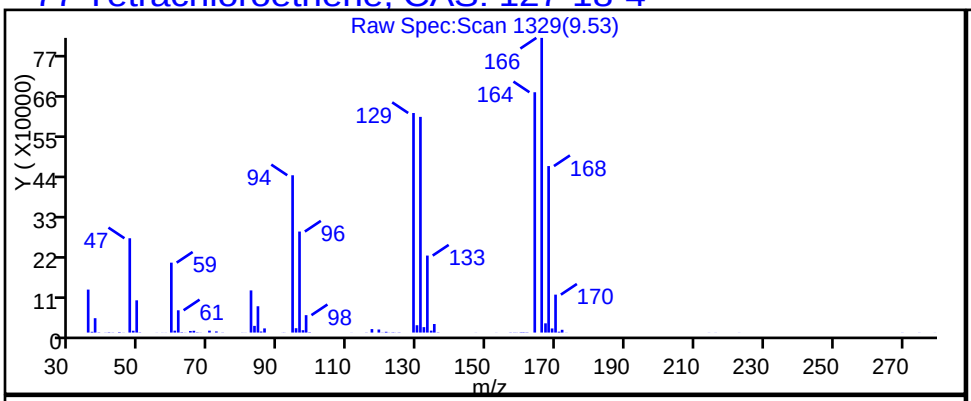
Report Date: 08-Oct-2015 09:01:51 Chrom Revision: 2.2 08-Sep-2015 13:41:46

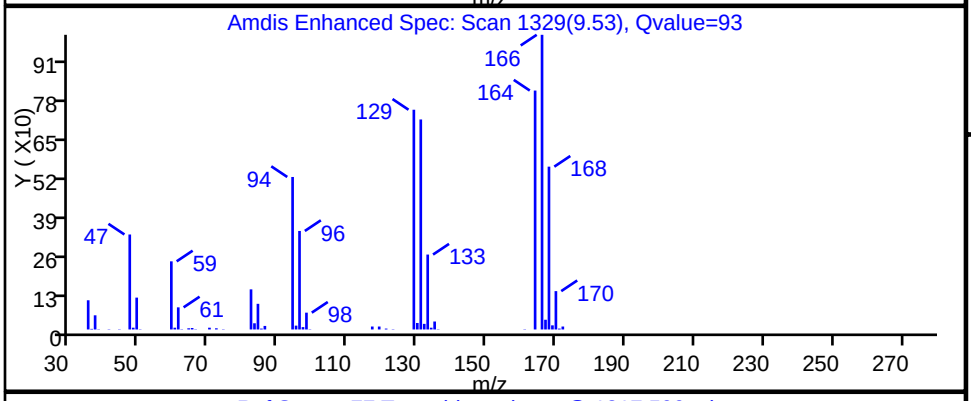
TestAmerica Pittsburgh

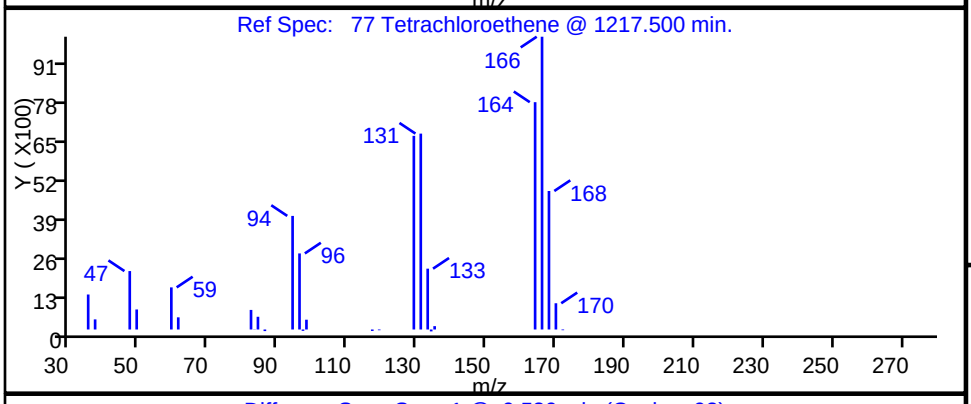
Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20151007-8874.b\61007028.D

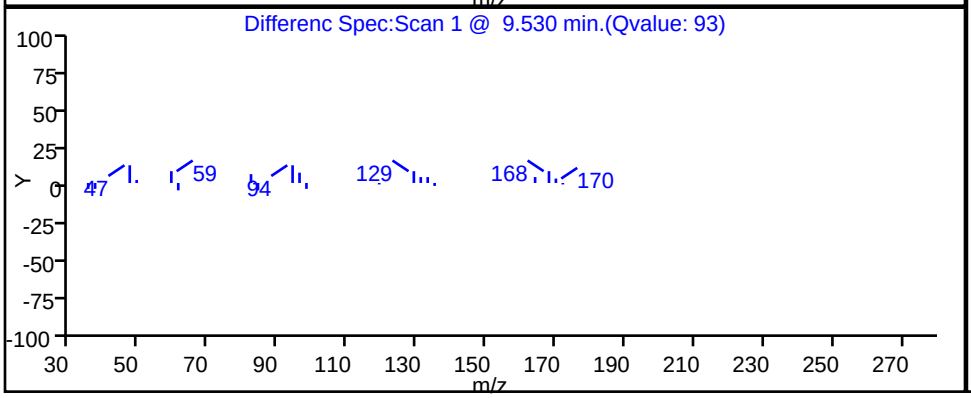
Injection Date:	07-Oct-2015 23:42:30	Instrument ID:	CHHP6		
Lims ID:	180-48309-C-5	Lab Sample ID:	180-48309-5		
Client ID:	HD-MW-92-0/1-0				
Operator ID:	001562	ALS Bottle#:	28	Worklist Smp#:	28
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVOA_LL_CHHP6	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

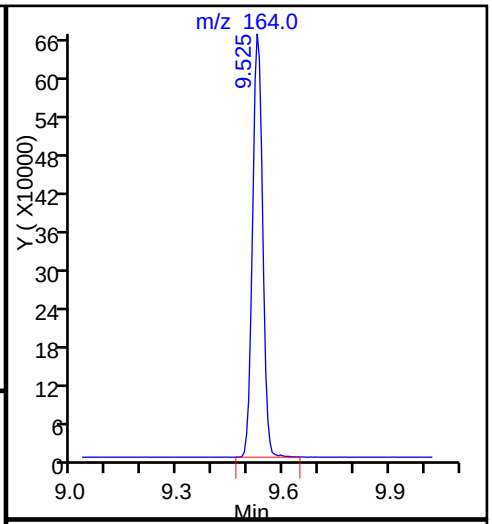
77 Tetrachloroethene, CAS: 127-18-4

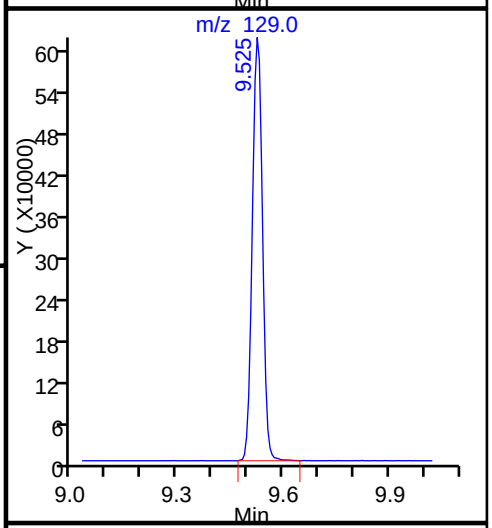


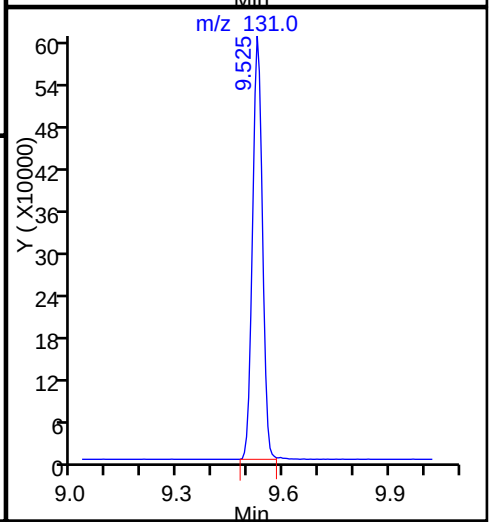












Manual Integration/User Assign Peak Report

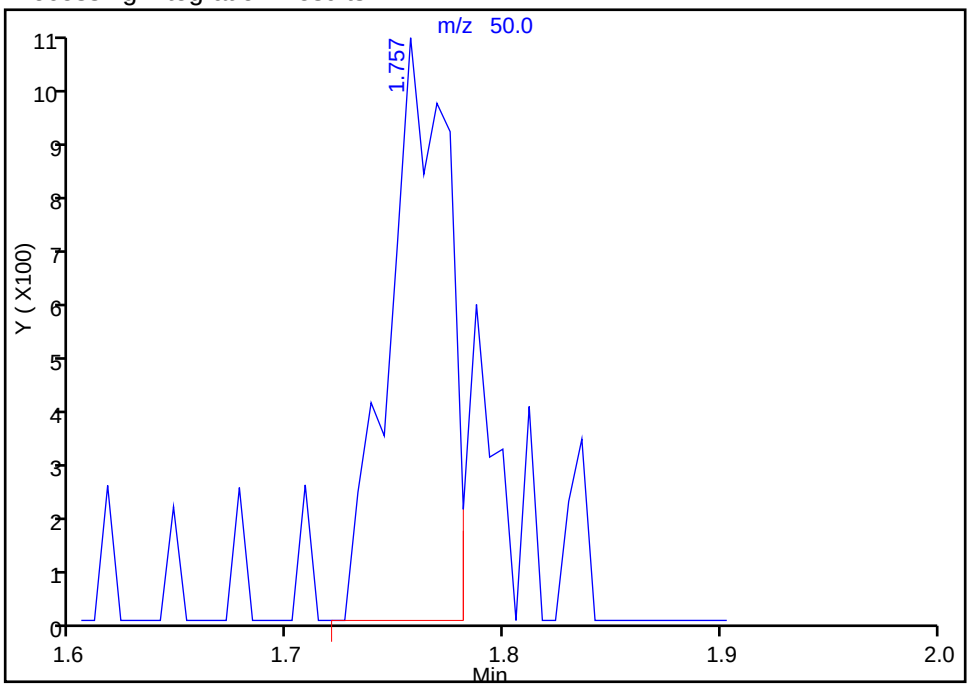
TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHHP6\20151007-8874.b\61007028.D				
Injection Date:	07-Oct-2015 23:42:30	Instrument ID:	CHHP6		
Lims ID:	180-48309-C-5	Lab Sample ID:	180-48309-5		
Client ID:	HD-MW-92-0/1-0				
Operator ID:	001562	ALS Bottle#:	28	Worklist Smp#:	28
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVOA_LL_CHHP6	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

12 Chloromethane, CAS: 74-87-3

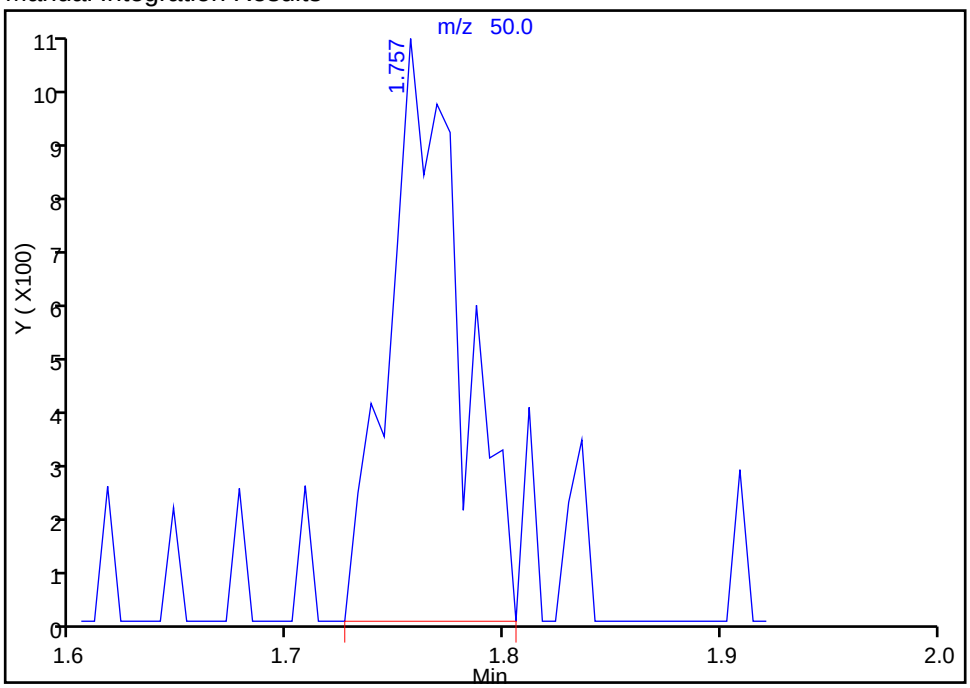
Processing Integration Results

RT: 1.76
Area: 2088
Amount: 0.818816
Amount Units: ng



Manual Integration Results

RT: 1.76
Area: 2533
Amount: 0.993324
Amount Units: ng



Reviewer: fergusond, 08-Oct-2015 09:01:49
Audit Action: Manually Integrated
Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

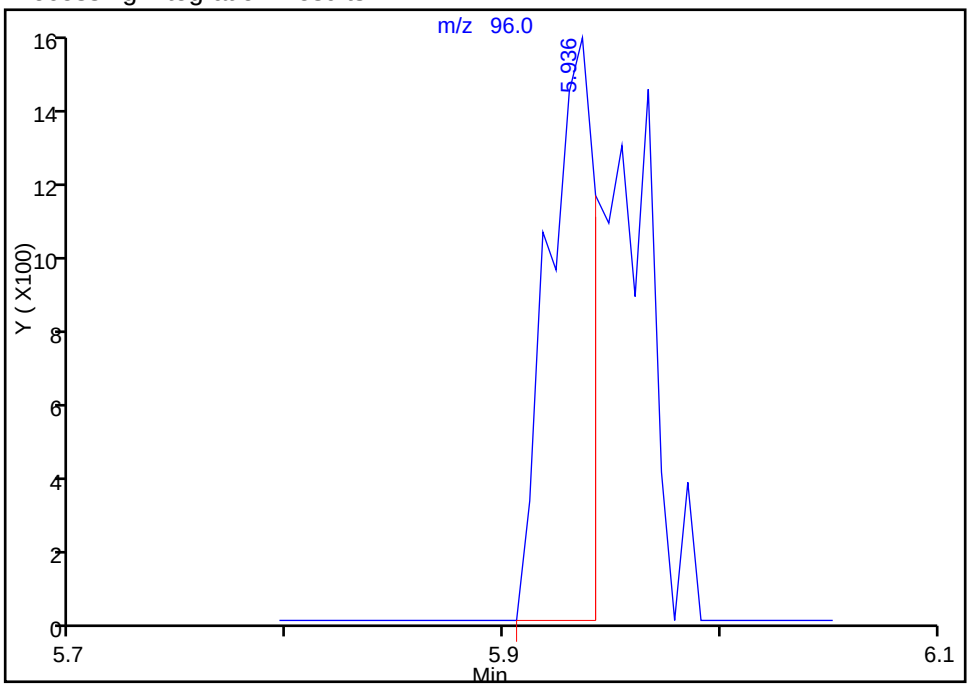
TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHHP6\20151007-8874.b\61007028.D				
Injection Date:	07-Oct-2015 23:42:30	Instrument ID:	CHHP6		
Lims ID:	180-48309-C-5	Lab Sample ID:	180-48309-5		
Client ID:	HD-MW-92-0/1-0				
Operator ID:	001562	ALS Bottle#:	28	Worklist Smp#:	28
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVOA_LL_CHHP6	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

43 cis-1,2-Dichloroethene, CAS: 156-59-2

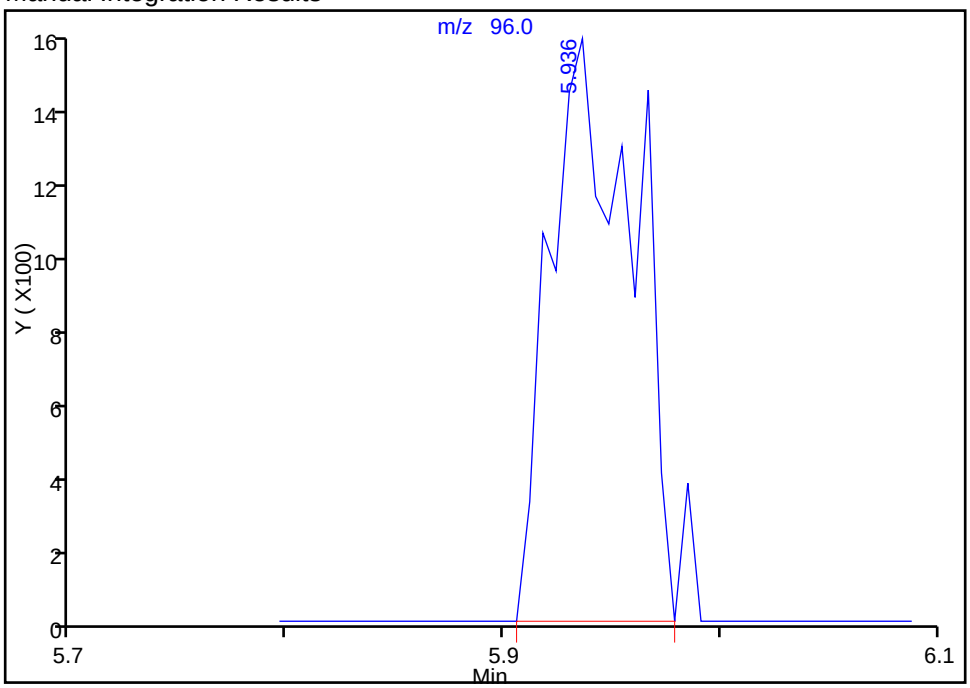
Processing Integration Results

RT: 5.94
Area: 2310
Amount: 0.855859
Amount Units: ng



Manual Integration Results

RT: 5.94
Area: 4119
Amount: 1.526097
Amount Units: ng



Reviewer: fergusond, 08-Oct-2015 09:01:49
Audit Action: Manually Integrated
Audit Reason: Incomplete Integration

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-48309-1

SDG No.:

Client Sample ID: HD-MW-92-0/1-0 DL | Lab Sample ID: 180-48309-5 DL

Matrix: Water | Lab File ID: 51008014.D

Analysis Method: 8260C | Date Collected: 09/30/2015 08:25

Sample wt/vol: 5(mL) | Date Analyzed: 10/08/2015 16:48

Soil Aliquot Vol: | Dilution Factor: 10

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 156309 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	10	U	10	2.8
75-01-4	Vinyl chloride	10	U ^c	10	2.3
74-83-9	Bromomethane	10	U ^c	10	3.1
75-00-3	Chloroethane	10	U ^c	10	2.1
75-35-4	1,1-Dichloroethene	10	U	10	3.0
67-64-1	Acetone	50	U	50	25
75-15-0	Carbon disulfide	10	U	10	2.1
75-09-2	Methylene Chloride	10	U	10	1.3
156-60-5	trans-1,2-Dichloroethene	10	U	10	1.7
1634-04-4	Methyl tert-butyl ether	10	U	10	1.8
75-34-3	1,1-Dichloroethane	10	U	10	1.2
156-59-2	cis-1,2-Dichloroethene	10	U	10	2.4
74-97-5	Bromochloromethane	10	U	10	1.8
78-93-3	2-Butanone (MEK)	50	U	50	5.5
67-66-3	Chloroform	10	U	10	1.7
71-55-6	1,1,1-Trichloroethane	10	U	10	2.9
56-23-5	Carbon tetrachloride	10	U	10	1.4
71-43-2	Benzene	10	U	10	1.1
107-06-2	1,2-Dichloroethane	10	U	10	2.1
79-01-6	Trichloroethene	12		10	1.4
78-87-5	1,2-Dichloropropane	10	U	10	0.95
75-27-4	Bromodichloromethane	10	U	10	1.3
10061-01-5	cis-1,3-Dichloropropene	10	U	10	1.9
108-10-1	4-Methyl-2-pentanone (MIBK)	50	U	50	5.3
108-88-3	Toluene	10	U	10	1.5
10061-02-6	trans-1,3-Dichloropropene	10	U	10	1.5
79-00-5	1,1,2-Trichloroethane	10	U	10	2.0
127-18-4	Tetrachloroethene	150		10	1.5
591-78-6	2-Hexanone	50	U	50	1.6
124-48-1	Dibromochloromethane	10	U	10	1.4
106-93-4	1,2-Dibromoethane (EDB)	10	U	10	1.8
108-90-7	Chlorobenzene	10	U	10	1.4
630-20-6	1,1,1,2-Tetrachloroethane	10	U	10	2.8
100-41-4	Ethylbenzene	10	U	10	2.3
1330-20-7	Xylenes, Total	30	U	30	4.9
100-42-5	Styrene	10	U	10	0.97

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-48309-1

SDG No.:

Client Sample ID: HD-MW-92-0/1-0 DL | Lab Sample ID: 180-48309-5 DL

Matrix: Water | Lab File ID: 51008014.D

Analysis Method: 8260C | Date Collected: 09/30/2015 08:25

Sample wt/vol: 5(mL) | Date Analyzed: 10/08/2015 16:48

Soil Aliquot Vol: | Dilution Factor: 10

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 156309 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-25-2	*Bromoform*	*10*	*U*	*10*	*1.9*
79-34-5	*1,1,2,2-Tetrachloroethane*	*10*	*U*	*10*	*2.0*
107-13-1	*Acrylonitrile*	*200*	*U*	*200*	*5.5*
123-91-1	*1,4-Dioxane*	*2000*	*U ^c*	*2000*	*340*

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	95		64-135
2037-26-5	Toluene-d8 (Surr)	89		71-118
460-00-4	4-Bromofluorobenzene (Surr)	88		70-118
1868-53-7	Dibromofluoromethane (Surr)	101		70-128

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151008-8892.b\51008014.D
Lims ID: 180-48309-B-5 Lab Sample ID: 180-48309-5
Client ID: HD-MW-92-0/1-0
Sample Type: Client
Inject. Date: 08-Oct-2015 16:48:30 ALS Bottle#: 13 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 10.0000
Sample Info: 180-48309-B-5, 10x
Misc. Info.: 180-0008892-014
Operator ID: 001562 Instrument ID: CHHP5

Method: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151008-8892.b\MSVOA_LL_CHHP5.m
Limit Group: VOA 8260C ICAL
Last Update: 09-Oct-2015 08:30:24 Calib Date: 26-Aug-2015 17:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20150826-8300.b\50826014.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK037

First Level Reviewer: fergusond Date: 09-Oct-2015 08:30:24

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.271	4.269	0.002	0	148224	1000.0	
* 2 Fluorobenzene (IS)	96	7.295	7.286	0.009	98	289635	50.0	
* 3 Chlorobenzene-d5	119	10.385	10.389	-0.004	86	77004	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.733	12.731	0.002	95	114152	50.0	
$ 5 Dibromofluoromethane (Surr	113	6.565	6.562	0.003	93	71953	50.6	
$ 6 1,2-Dichloroethane-d4 (Sur	65	6.936	6.934	0.002	0	92540	47.4	
$ 7 Toluene-d8 (Surr)	98	8.937	8.935	0.002	93	263475	44.4	
$ 8 4-Bromofluorobenzene (Surr	95	11.571	11.569	0.002	92	98953	44.2	
12 Chloromethane	50		1.769				ND	
13 Vinyl chloride	62		1.909				ND	
15 Bromomethane	94		2.255				ND	
16 Chloroethane	64		2.395				ND	
22 1,1-Dichloroethene	96		3.338				ND	
24 Acetone	43		3.448				ND	
26 Carbon disulfide	76		3.630				ND	
31 Methylene Chloride	84		4.135				ND	
33 Acrylonitrile	53		4.525				ND	
34 trans-1,2-Dichloroethene	96		4.561				ND	
35 Methyl tert-butyl ether	73		4.573				ND	
37 1,1-Dichloroethane	63		5.200				ND	
45 cis-1,2-Dichloroethene	96		5.954				ND	
46 2-Butanone (MEK)	43		5.960				ND	
49 Chlorobromomethane	128		6.234				ND	
52 Chloroform	83		6.380				ND	
53 1,1,1-Trichloroethane	97		6.538				ND	
56 Carbon tetrachloride	117		6.715				ND	
58 Benzene	78		6.946				ND	
59 1,2-Dichloroethane	62		7.025				ND	
64 Trichloroethene	130	7.684	7.676	0.008	93	10773	6.17	
67 1,2-Dichloropropane	63		7.949				ND	
70 1,4-Dioxane	88		8.029				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
71 Dichlorobromomethane	83		8.235				ND	
74 cis-1,3-Dichloropropene	75		8.673				ND	
75 4-Methyl-2-pentanone (MIBK	43		8.826				ND	
76 Toluene	91		9.002				ND	
77 trans-1,3-Dichloropropene	75		9.251				ND	
79 1,1,2-Trichloroethane	97		9.446				ND	
80 Tetrachloroethene	164	9.515	9.519	-0.004	97	114079	77.1	
82 2-Hexanone	43		9.659				ND	
84 Chlorodibromomethane	129		9.811				ND	
85 Ethylene Dibromide	107		9.927				ND	
87 Chlorobenzene	112		10.413				ND	
89 1,1,1,2-Tetrachloroethane	131		10.511				ND	
90 Ethylbenzene	106		10.517				ND	
91 m-Xylene & p-Xylene	106		10.644				ND	
92 o-Xylene	106		11.028				ND	
93 Styrene	104		11.046				ND	
94 Bromoform	173		11.235				ND	
99 1,1,2,2-Tetrachloroethane	83		11.709				ND	
S 133 Xylenes, Total	106		1.000				ND	

Reagents:

VOA8260INT_00042	Amount Added:	2.00	Units: uL	Run Reagent
VOA8260SURR_00042	Amount Added:	2.00	Units: uL	Run Reagent

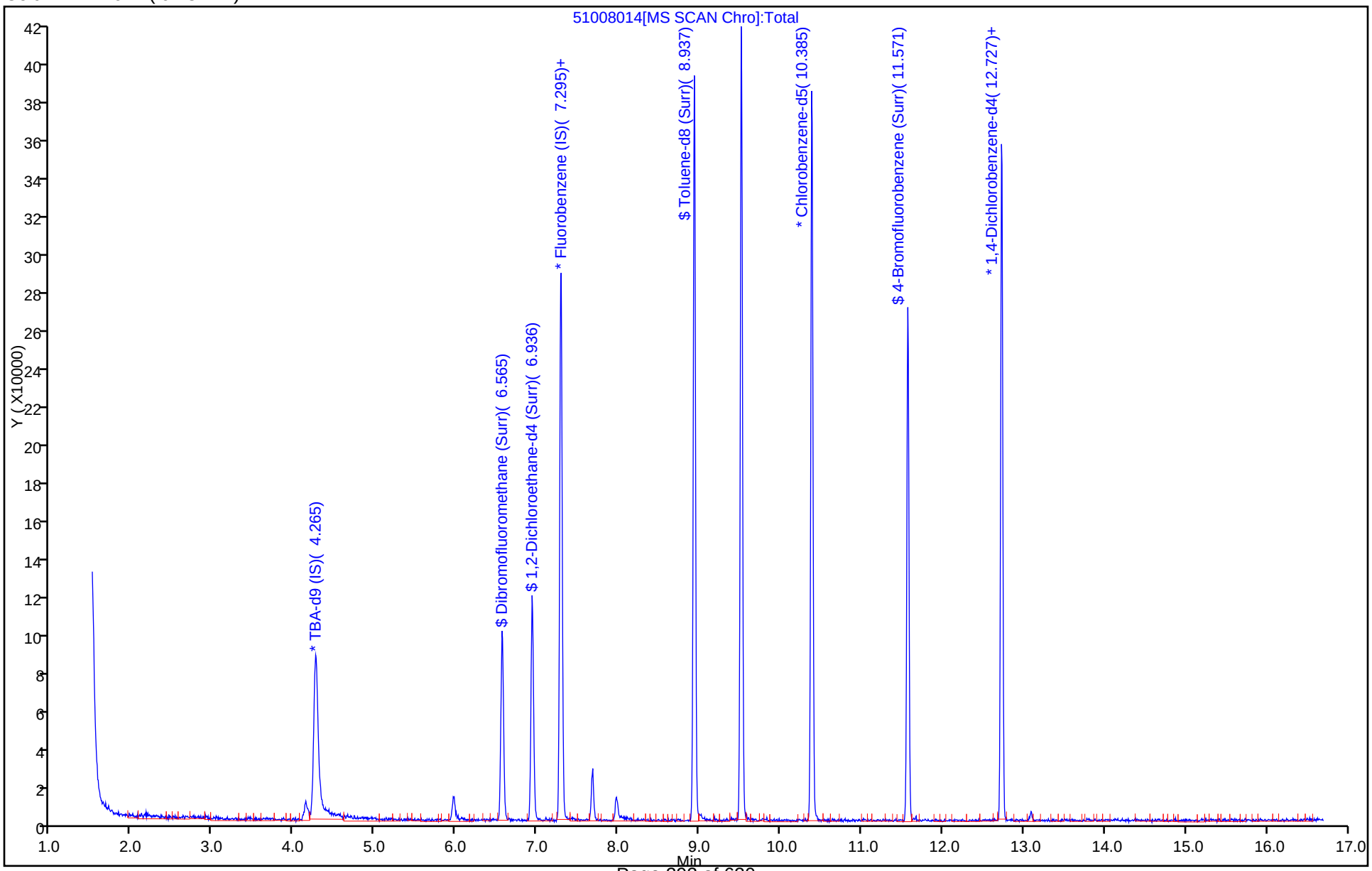
Report Date: 09-Oct-2015 08:30:25 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151008-8892.b\51008014.D

Injection Date:	08-Oct-2015 16:48:30	Instrument ID:	CHHP5	Operator ID:	001562
Lims ID:	180-48309-B-5	Lab Sample ID:	180-48309-5	Worklist Smp#:	14
Client ID:	HD-MW-92-0/1-0				
Purge Vol:	5.000 mL	Dil. Factor:	10.0000	ALS Bottle#:	13
Method:	MSVOA_LL_CHHP5	Limit Group:	VOA 8260C ICAL		

Column: DB-624 (0.18 mm)



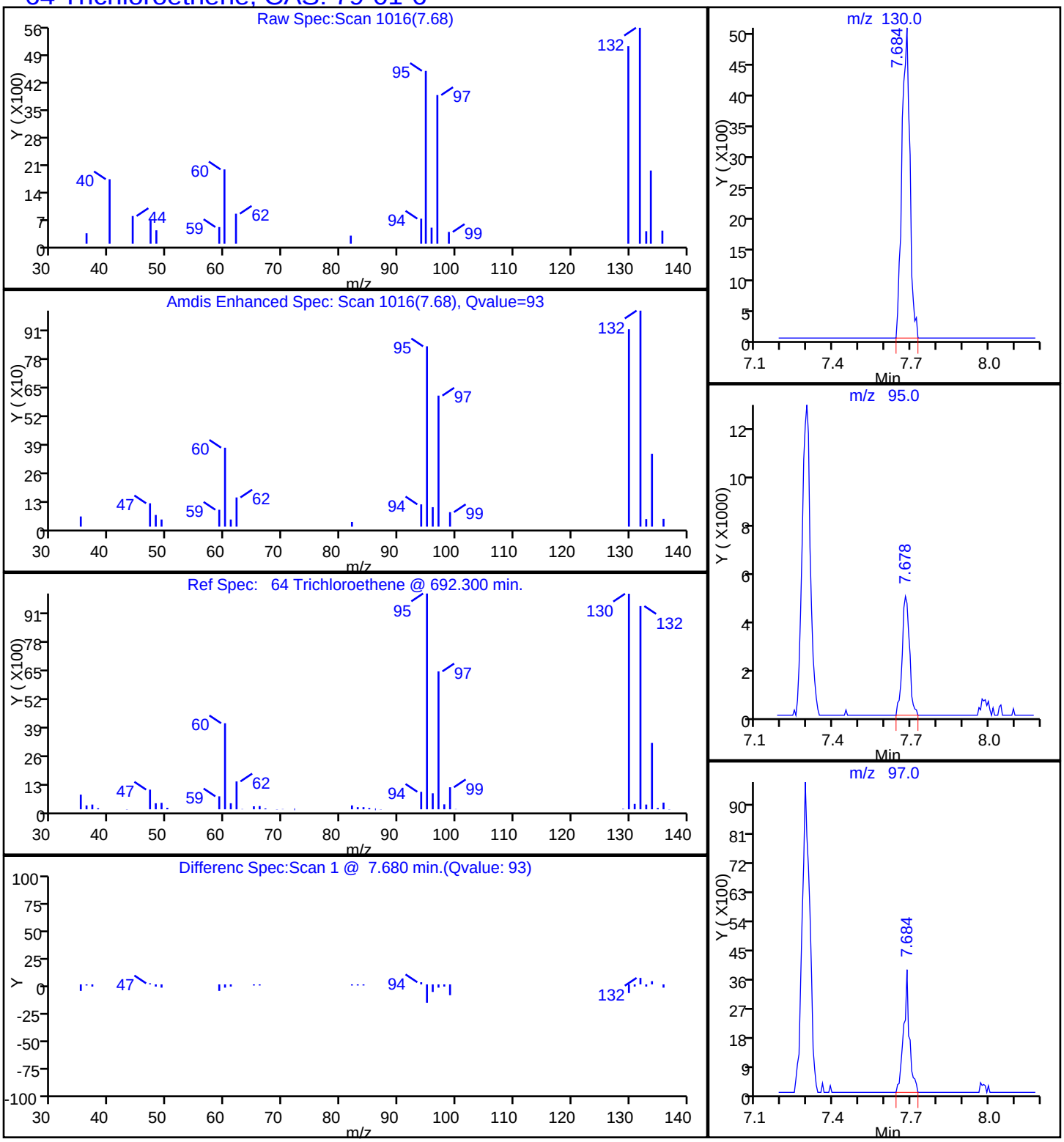
Report Date: 09-Oct-2015 08:30:25 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151008-8892.b\51008014.D

Injection Date:	08-Oct-2015 16:48:30	Instrument ID:	CHHP5		
Lims ID:	180-48309-B-5	Lab Sample ID:	180-48309-5		
Client ID:	HD-MW-92-0/1-0				
Operator ID:	001562	ALS Bottle#:	13	Worklist Smp#:	14
Purge Vol:	5.000 mL	Dil. Factor:	10.0000		
Method:	MSVOA_LL_CHHP5	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

64 Trichloroethene, CAS: 79-01-6



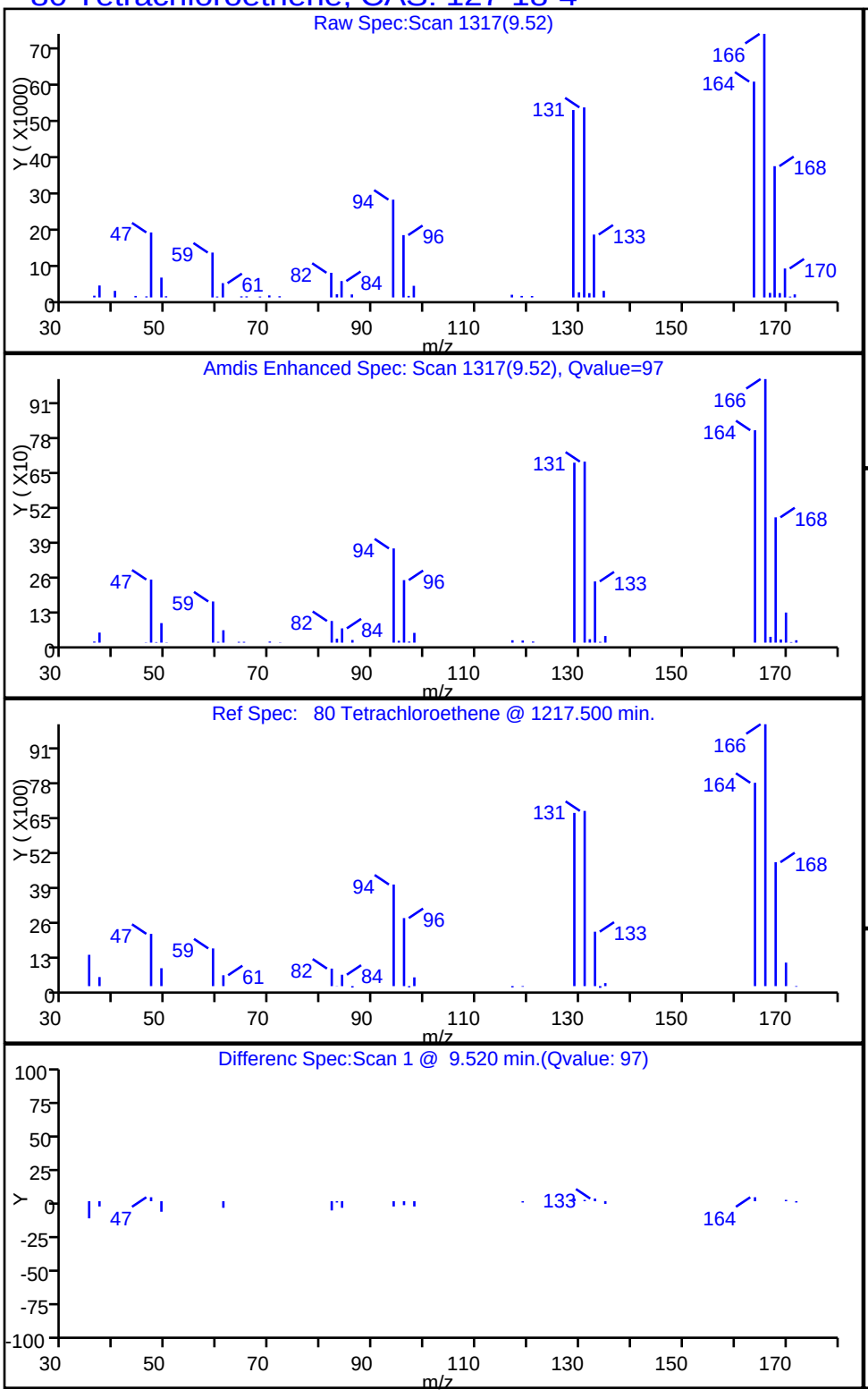
Report Date: 09-Oct-2015 08:30:25 Chrom Revision: 2.2 08-Sep-2015 13:41:46

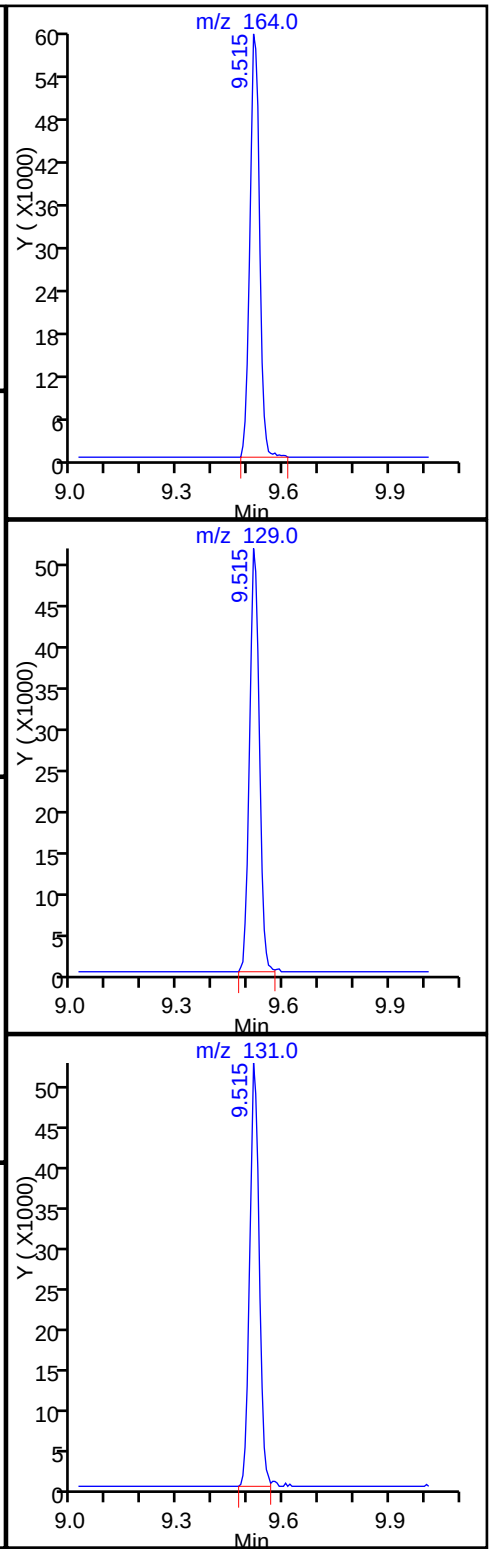
TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151008-8892.b\51008014.D

Injection Date:	08-Oct-2015 16:48:30	Instrument ID:	CHHP5		
Lims ID:	180-48309-B-5	Lab Sample ID:	180-48309-5		
Client ID:	HD-MW-92-0/1-0				
Operator ID:	001562	ALS Bottle#:	13	Worklist Smp#:	14
Purge Vol:	5.000 mL	Dil. Factor:	10.0000		
Method:	MSVOA_LL_CHHP5	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

80 Tetrachloroethene, CAS: 127-18-4





FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-48309-1

SDG No.:

Client Sample ID: HD-MW-64D-0/1-0 | Lab Sample ID: 180-48309-6

Matrix: Water | Lab File ID: 51008029.D

Analysis Method: 8260C | Date Collected: 09/30/2015 12:40

Sample wt/vol: 5(mL) | Date Analyzed: 10/08/2015 22:50

Soil Aliquot Vol: | Dilution Factor: 2.5

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 156309 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	2.5	U	2.5	0.71
75-01-4	Vinyl chloride	2.5	U ^c	2.5	0.57
74-83-9	Bromomethane	2.5	U ^c	2.5	0.78
75-00-3	Chloroethane	2.5	U ^c	2.5	0.54
75-35-4	1,1-Dichloroethene	2.5	U	2.5	0.74
67-64-1	Acetone	13	U	13	6.3
75-15-0	Carbon disulfide	2.5	U	2.5	0.53
75-09-2	Methylene Chloride	2.5	U	2.5	0.31
156-60-5	trans-1,2-Dichloroethene	2.5	U	2.5	0.42
1634-04-4	Methyl tert-butyl ether	2.5	U	2.5	0.46
75-34-3	1,1-Dichloroethane	2.5	U	2.5	0.29
156-59-2	cis-1,2-Dichloroethene	2.5	U	2.5	0.59
74-97-5	Bromochloromethane	2.5	U	2.5	0.45
78-93-3	2-Butanone (MEK)	13	U	13	1.4
67-66-3	Chloroform	2.5	U	2.5	0.43
71-55-6	1,1,1-Trichloroethane	2.5	U	2.5	0.72
56-23-5	Carbon tetrachloride	2.5	U	2.5	0.34
71-43-2	Benzene	2.5	U	2.5	0.26
107-06-2	1,2-Dichloroethane	2.5	U	2.5	0.53
79-01-6	*Trichloroethene*	*240*	*E*	*2.5*	*0.36*
78-87-5	1,2-Dichloropropane	2.5	U	2.5	0.24
75-27-4	Bromodichloromethane	2.5	U	2.5	0.33
10061-01-5	cis-1,3-Dichloropropene	2.5	U	2.5	0.47
108-10-1	4-Methyl-2-pentanone (MIBK)	13	U	13	1.3
108-88-3	Toluene	2.5	U	2.5	0.38
10061-02-6	trans-1,3-Dichloropropene	2.5	U	2.5	0.37
79-00-5	1,1,2-Trichloroethane	2.5	U	2.5	0.50
127-18-4	*Tetrachloroethene*	*420*	*E*	*2.5*	*0.37*
591-78-6	2-Hexanone	13	U	13	0.40
124-48-1	Dibromochloromethane	2.5	U	2.5	0.34
106-93-4	1,2-Dibromoethane (EDB)	2.5	U	2.5	0.45
108-90-7	Chlorobenzene	2.5	U	2.5	0.34
630-20-6	1,1,1,2-Tetrachloroethane	2.5	U	2.5	0.69
100-41-4	Ethylbenzene	2.5	U	2.5	0.57
1330-20-7	Xylenes, Total	7.5	U	7.5	1.2
100-42-5	Styrene	2.5	U	2.5	0.24

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh Job No.: 180-48309-1

SDG No.:

Client Sample ID: HD-MW-64D-0/1-0 Lab Sample ID: 180-48309-6

Matrix: Water Lab File ID: 51008029.D

Analysis Method: 8260C Date Collected: 09/30/2015 12:40

Sample wt/vol: 5(mL) Date Analyzed: 10/08/2015 22:50

Soil Aliquot Vol: Dilution Factor: 2.5

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 156309 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-25-2	Bromoform	2.5	U	2.5	0.48
79-34-5	1,1,2,2-Tetrachloroethane	2.5	U	2.5	0.50
107-13-1	Acrylonitrile	50	U	50	1.4
123-91-1	1,4-Dioxane	500	U ^c	500	86

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		64-135
2037-26-5	Toluene-d8 (Surr)	87		71-118
460-00-4	4-Bromofluorobenzene (Surr)	86		70-118
1868-53-7	Dibromofluoromethane (Surr)	112		70-128

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151008-8892.b\51008029.D
Lims ID: 180-48309-B-6 Lab Sample ID: 180-48309-6
Client ID: HD-MW-64D-0/1-0
Sample Type: Client
Inject. Date: 08-Oct-2015 22:50:30 ALS Bottle#: 28 Worklist Smp#: 29
Purge Vol: 5.000 mL Dil. Factor: 2.5000
Sample Info: 180-48309-B-6, 2.5x
Misc. Info.: 180-0008892-029
Operator ID: 001562 Instrument ID: CHHP5

Method: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151008-8892.b\MSVOA_LL_CHHP5.m
Limit Group: VOA 8260C ICAL
Last Update: 09-Oct-2015 08:53:58 Calib Date: 26-Aug-2015 17:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20150826-8300.b\50826014.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK037

First Level Reviewer: fergusond Date: 09-Oct-2015 08:53:58

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.259	4.269	-0.010	0	137187	1000.0	
* 2 Fluorobenzene (IS)	96	7.289	7.286	0.003	98	256752	50.0	
* 3 Chlorobenzene-d5	119	10.385	10.389	-0.004	87	73999	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.733	12.731	0.002	95	104311	50.0	
$ 5 Dibromofluoromethane (Surr	113	6.571	6.562	0.009	92	70729	56.1	
$ 6 1,2-Dichloroethane-d4 (Sur	65	6.936	6.934	0.002	0	86587	50.0	
$ 7 Toluene-d8 (Surr)	98	8.937	8.935	0.002	94	247131	43.3	
$ 8 4-Bromofluorobenzene (Surr	95	11.571	11.569	0.002	91	92283	42.9	
12 Chloromethane	50		1.769				ND	
13 Vinyl chloride	62		1.909				ND	
15 Bromomethane	94		2.255				ND	
16 Chloroethane	64		2.395				ND	
22 1,1-Dichloroethene	96		3.338				ND	
24 Acetone	43		3.448				ND	
26 Carbon disulfide	76		3.630				ND	
31 Methylene Chloride	84		4.135				ND	
33 Acrylonitrile	53		4.525				ND	
34 trans-1,2-Dichloroethene	96		4.561				ND	
35 Methyl tert-butyl ether	73		4.573				ND	
37 1,1-Dichloroethane	63		5.200				ND	
45 cis-1,2-Dichloroethene	96		5.954				ND	
46 2-Butanone (MEK)	43		5.960				ND	
49 Chlorobromomethane	128		6.234				ND	
52 Chloroform	83	6.388	6.380	0.008	22	1461	0.5529	
53 1,1,1-Trichloroethane	97		6.538				ND	
56 Carbon tetrachloride	117		6.715				ND	
58 Benzene	78		6.946				ND	
59 1,2-Dichloroethane	62		7.025				ND	
64 Trichloroethene	130	7.678	7.676	0.002	95	733182	473.4	E
67 1,2-Dichloropropane	63		7.949				ND	
70 1,4-Dioxane	88		8.029				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
71 Dichlorobromomethane	83		8.235				ND	
74 cis-1,3-Dichloropropene	75		8.673				ND	
75 4-Methyl-2-pentanone (MIBK	43		8.826				ND	
76 Toluene	91		9.002				ND	
77 trans-1,3-Dichloropropene	75		9.251				ND	
79 1,1,2-Trichloroethane	97		9.446				ND	
80 Tetrachloroethene	164	9.515	9.519	-0.004	97	1190740	837.3	E
82 2-Hexanone	43		9.659				ND	
84 Chlorodibromomethane	129		9.811				ND	
85 Ethylene Dibromide	107		9.927				ND	
87 Chlorobenzene	112		10.413				ND	
89 1,1,1,2-Tetrachloroethane	131		10.511				ND	
90 Ethylbenzene	106		10.517				ND	
91 m-Xylene & p-Xylene	106		10.644				ND	
92 o-Xylene	106		11.028				ND	
93 Styrene	104		11.046				ND	
94 Bromoform	173		11.235				ND	
99 1,1,2,2-Tetrachloroethane	83		11.709				ND	
S 133 Xylenes, Total	106		1.000				ND	

QC Flag Legend

Processing Flags

E - Exceeded Maximum Amount

Reagents:

VOA8260INT_00042	Amount Added:	2.00	Units: uL	Run Reagent
VOA8260SURR_00042	Amount Added:	2.00	Units: uL	Run Reagent

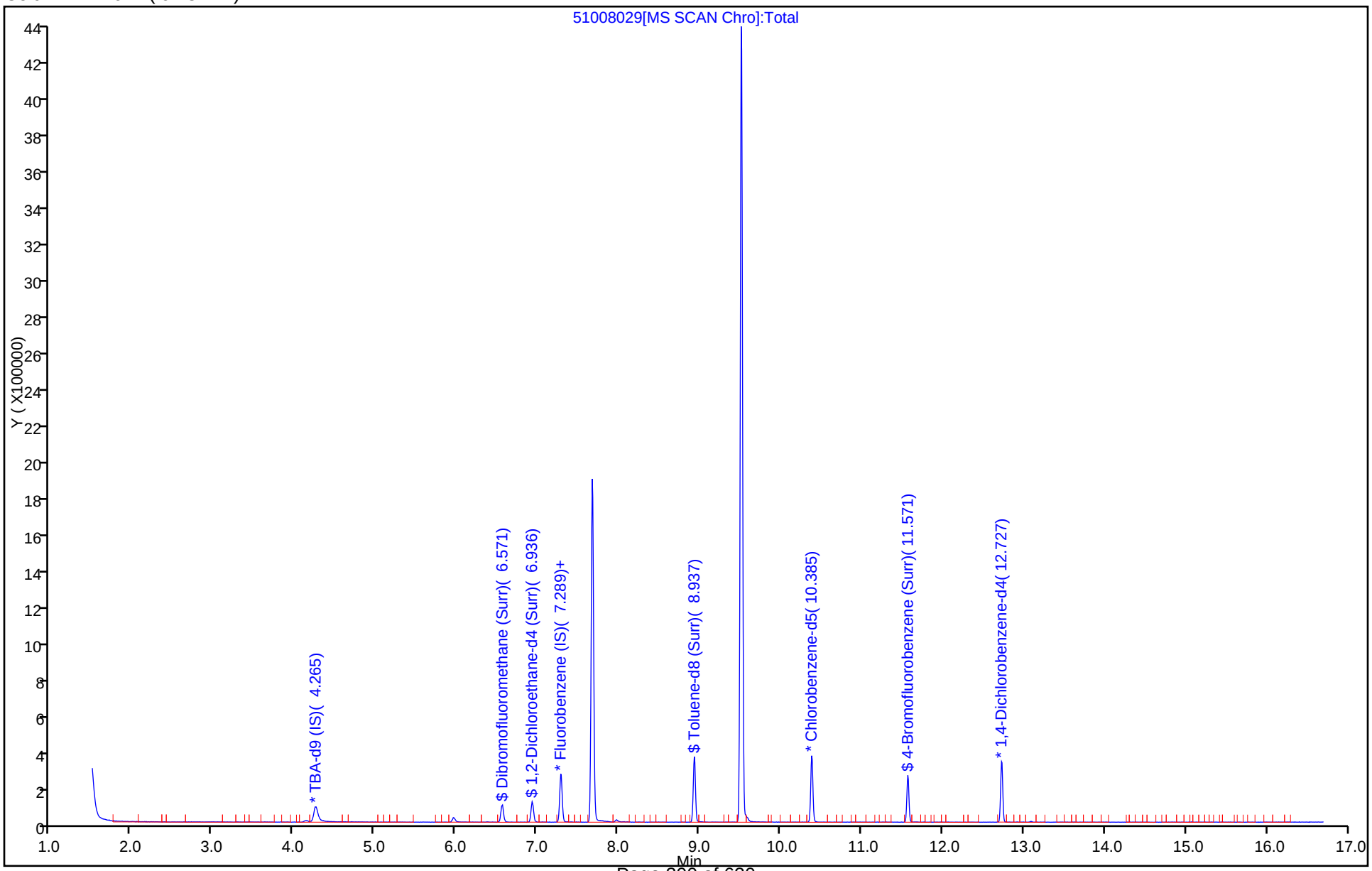
Report Date: 09-Oct-2015 08:53:59 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151008-8892.b\51008029.D

Injection Date:	08-Oct-2015 22:50:30	Instrument ID:	CHHP5	Operator ID:	001562
Lims ID:	180-48309-B-6	Lab Sample ID:	180-48309-6	Worklist Smp#:	29
Client ID:	HD-MW-64D-0/1-0				
Purge Vol:	5.000 mL	Dil. Factor:	2.5000	ALS Bottle#:	28
Method:	MSVOA_LL_CHHP5	Limit Group:	VOA 8260C ICAL		

Column: DB-624 (0.18 mm)



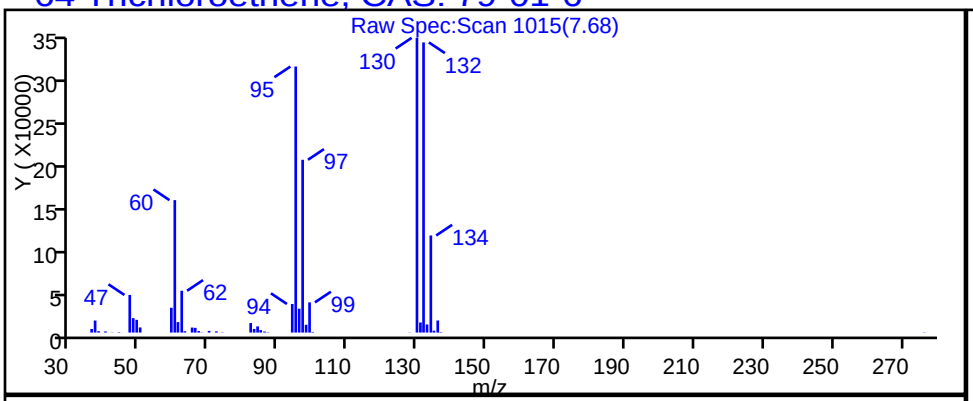
Report Date: 09-Oct-2015 08:53:59 Chrom Revision: 2.2 08-Sep-2015 13:41:46

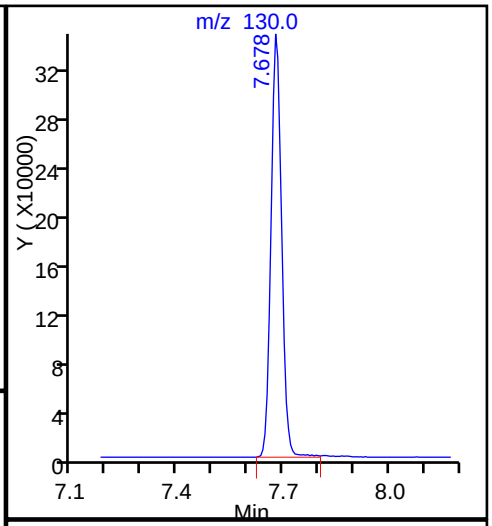
TestAmerica Pittsburgh

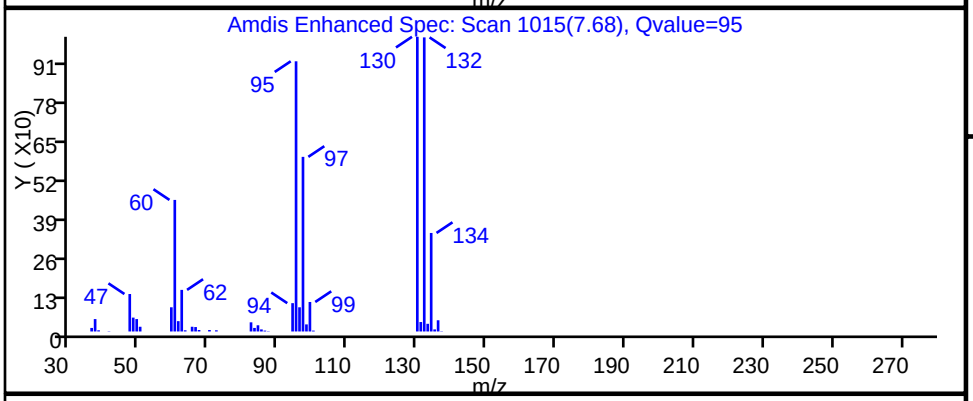
Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151008-8892.b\51008029.D

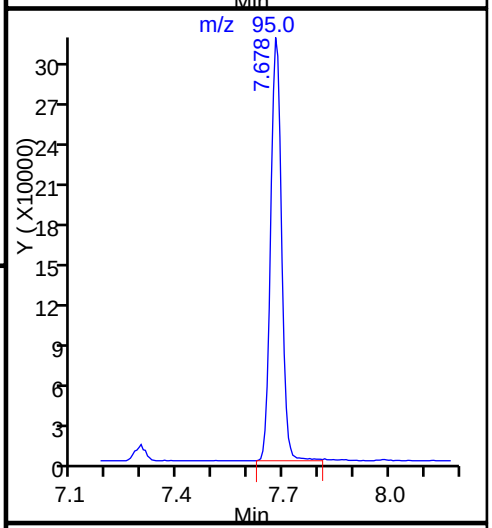
Injection Date:	08-Oct-2015 22:50:30	Instrument ID:	CHHP5		
Lims ID:	180-48309-B-6	Lab Sample ID:	180-48309-6		
Client ID:	HD-MW-64D-0/1-0				
Operator ID:	001562	ALS Bottle#:	28	Worklist Smp#:	29
Purge Vol:	5.000 mL	Dil. Factor:	2.5000		
Method:	MSVOA_LL_CHHP5	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

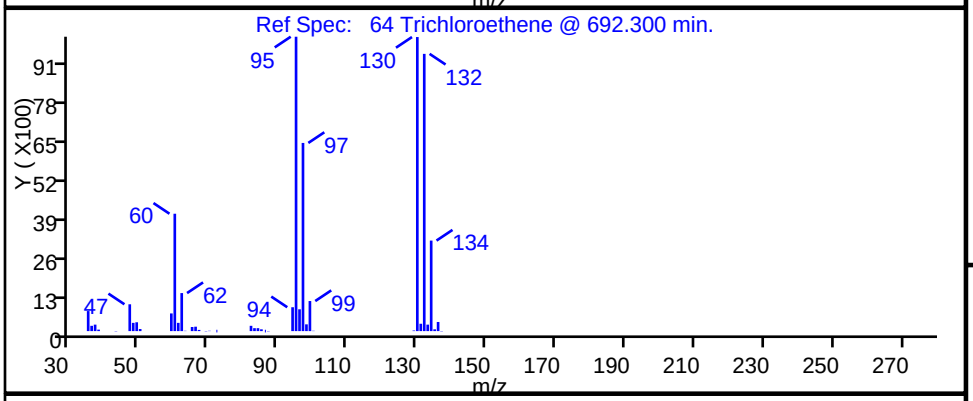
64 Trichloroethene, CAS: 79-01-6

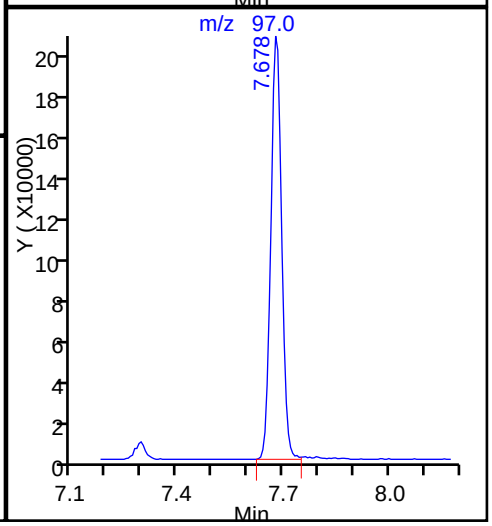


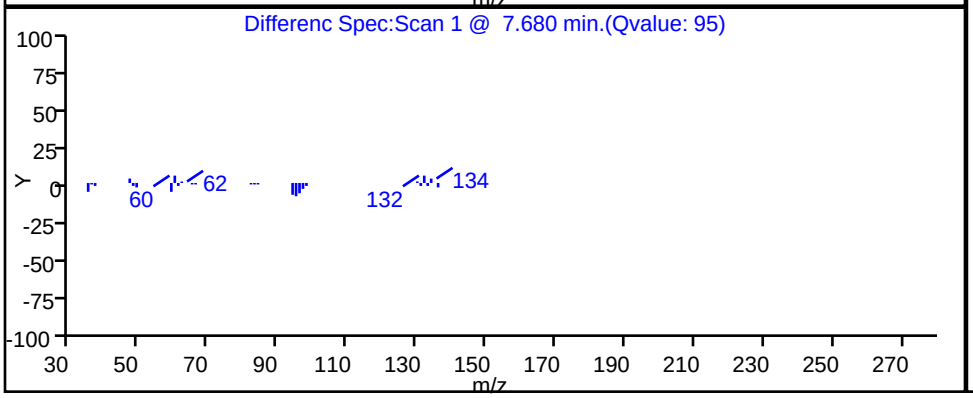












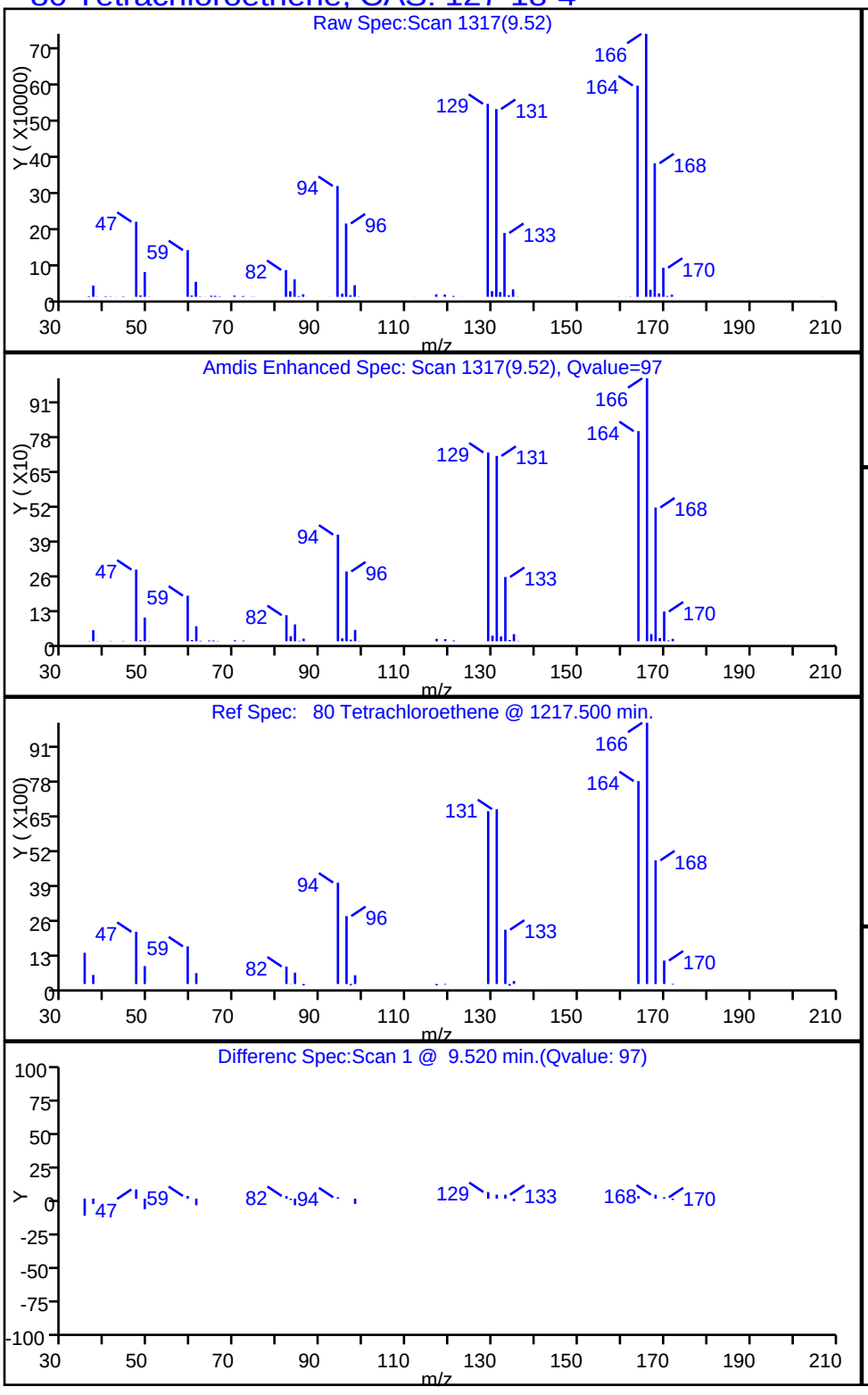
Report Date: 09-Oct-2015 08:53:59 Chrom Revision: 2.2 08-Sep-2015 13:41:46

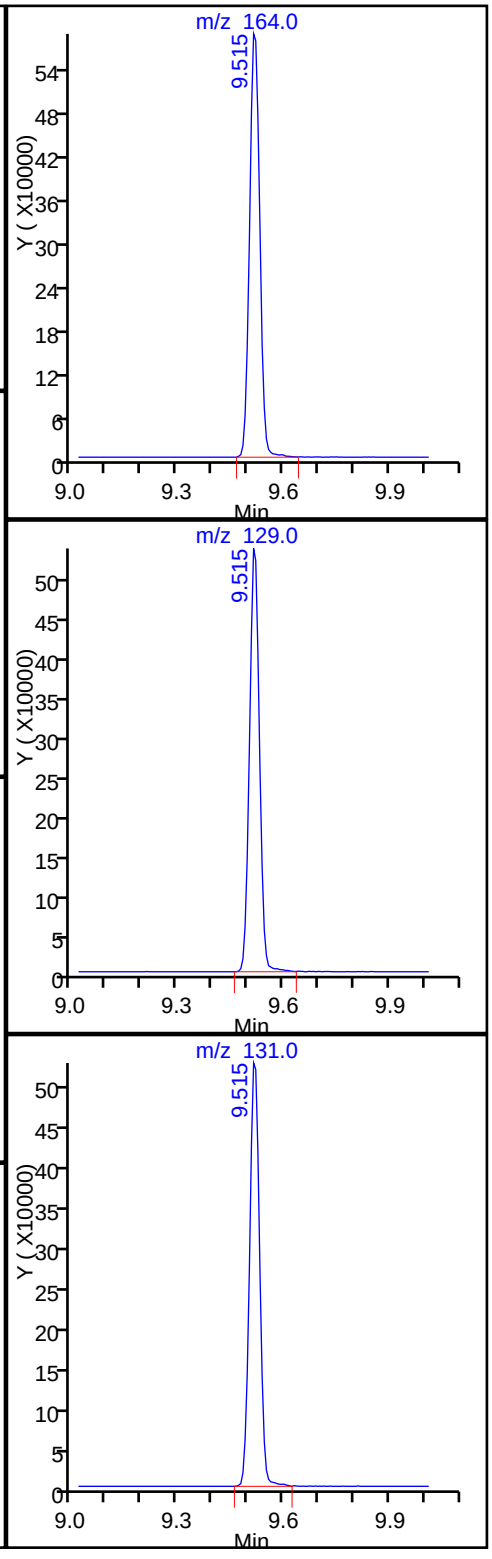
TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151008-8892.b\51008029.D

Injection Date:	08-Oct-2015 22:50:30	Instrument ID:	CHHP5		
Lims ID:	180-48309-B-6	Lab Sample ID:	180-48309-6		
Client ID:	HD-MW-64D-0/1-0				
Operator ID:	001562	ALS Bottle#:	28	Worklist Smp#:	29
Purge Vol:	5.000 mL	Dil. Factor:	2.5000		
Method:	MSVOA_LL_CHHP5	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

80 Tetrachloroethene, CAS: 127-18-4





FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-48309-1

SDG No.:

Client Sample ID: HD-MW-64D-0/1-0 DL | Lab Sample ID: 180-48309-6 DL

Matrix: Water | Lab File ID: 61007022.D

Analysis Method: 8260C | Date Collected: 09/30/2015 12:40

Sample wt/vol: 5(mL) | Date Analyzed: 10/07/2015 21:15

Soil Aliquot Vol: | Dilution Factor: 25

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 156189 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	25	U	25	7.1
75-01-4	Vinyl chloride	25	U	25	5.7
74-83-9	Bromomethane	25	U ^c	25	7.8
75-00-3	Chloroethane	25	U	25	5.4
75-35-4	1,1-Dichloroethene	25	U	25	7.4
67-64-1	Acetone	130	U	130	63
75-15-0	Carbon disulfide	25	U	25	5.3
75-09-2	Methylene Chloride	25	U	25	3.1
156-60-5	trans-1,2-Dichloroethene	25	U	25	4.2
1634-04-4	Methyl tert-butyl ether	25	U	25	4.6
75-34-3	1,1-Dichloroethane	25	U	25	2.9
156-59-2	cis-1,2-Dichloroethene	25	U	25	5.9
74-97-5	Bromochloromethane	25	U	25	4.5
78-93-3	2-Butanone (MEK)	130	U	130	14
67-66-3	Chloroform	25	U	25	4.3
71-55-6	1,1,1-Trichloroethane	25	U	25	7.2
56-23-5	Carbon tetrachloride	25	U	25	3.4
71-43-2	Benzene	25	U	25	2.6
107-06-2	1,2-Dichloroethane	25	U	25	5.3
79-01-6	Trichloroethene	210		25	3.6
78-87-5	1,2-Dichloropropane	25	U	25	2.4
75-27-4	Bromodichloromethane	25	U	25	3.3
10061-01-5	cis-1,3-Dichloropropene	25	U	25	4.7
108-10-1	4-Methyl-2-pentanone (MIBK)	130	U	130	13
108-88-3	Toluene	25	U	25	3.8
10061-02-6	trans-1,3-Dichloropropene	25	U	25	3.7
79-00-5	1,1,2-Trichloroethane	25	U	25	5.0
127-18-4	Tetrachloroethene	420		25	3.7
591-78-6	2-Hexanone	130	U ^c	130	4.0
124-48-1	Dibromochloromethane	25	U	25	3.4
106-93-4	1,2-Dibromoethane (EDB)	25	U	25	4.5
108-90-7	Chlorobenzene	25	U	25	3.4
630-20-6	1,1,1,2-Tetrachloroethane	25	U ^c	25	6.9
100-41-4	Ethylbenzene	25	U	25	5.7
1330-20-7	Xylenes, Total	75	U	75	12
100-42-5	Styrene	25	U ^c	25	2.4

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-48309-1

SDG No.:

Client Sample ID: HD-MW-64D-0/1-0 DL | Lab Sample ID: 180-48309-6 DL

Matrix: Water | Lab File ID: 61007022.D

Analysis Method: 8260C | Date Collected: 09/30/2015 12:40

Sample wt/vol: 5(mL) | Date Analyzed: 10/07/2015 21:15

Soil Aliquot Vol: | Dilution Factor: 25

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 156189 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-25-2	*Bromoform*	*25*	*U ^c*	*25*	*4.8*
79-34-5	*1,1,2,2-Tetrachloroethane*	*25*	*U*	*25*	*5.0*
107-13-1	*Acrylonitrile*	*500*	*U ^c*	*500*	*14*
123-91-1	*1,4-Dioxane*	*5000*	*U ^c*	*5000*	*860*

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	106		64-135
2037-26-5	Toluene-d8 (Surr)	98		71-118
460-00-4	4-Bromofluorobenzene (Surr)	83		70-118
1868-53-7	Dibromofluoromethane (Surr)	110		70-128

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20151007-8874.b\61007022.D
Lims ID: 180-48309-C-6 Lab Sample ID: 180-48309-6
Client ID: HD-MW-64D-0/1-0
Sample Type: Client
Inject. Date: 07-Oct-2015 21:15:30 ALS Bottle#: 22 Worklist Smp#: 22
Purge Vol: 5.000 mL Dil. Factor: 25.0000
Sample Info: 180-48309-C-6, 25x
Misc. Info.: 180-0008874-022
Operator ID: 001562 Instrument ID: CHHP6

Method: \\ChromNA\Pittsburgh\ChromData\CHHP6\20151007-8874.b\MSVOA_LL_CHHP6.m
Limit Group: VOA 8260C ICAL
Last Update: 08-Oct-2015 08:57:28 Calib Date: 14-Sep-2015 16:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150914-8521.b\60914006.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK015

First Level Reviewer: fergusond Date: 08-Oct-2015 08:57:28

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.232	4.245	-0.013	88	188512	1000.0	
* 2 Fluorobenzene (IS)	96	7.286	7.281	0.005	98	440516	50.0	
* 3 Chlorobenzene-d5	119	10.394	10.396	-0.002	90	109386	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.749	12.750	-0.001	97	169650	50.0	
$ 5 Dibromofluoromethane (Surr	113	6.556	6.551	0.005	93	111952	55.2	
$ 6 1,2-Dichloroethane-d4 (Sur	65	6.933	6.928	0.005	70	173056	52.9	
$ 7 Toluene-d8 (Surr)	98	8.940	8.942	-0.002	94	424543	49.2	
$ 8 4-Bromofluorobenzene (Surr	95	11.581	11.588	-0.007	88	158109	41.3	
12 Chloromethane	50		1.757				ND	
13 Vinyl chloride	62		1.903				ND	
15 Bromomethane	94		2.232				ND	
16 Chloroethane	64		2.371				ND	
22 1,1-Dichloroethene	96		3.339				ND	
24 Acetone	43		3.418				ND	
26 Carbon disulfide	76		3.625				ND	
31 Methylene Chloride	84	4.141	4.124	0.017	90	15939	0.2065	
33 Acrylonitrile	53		4.501				ND	
34 trans-1,2-Dichloroethene	96		4.568				ND	
35 Methyl tert-butyl ether	73		4.574				ND	
37 1,1-Dichloroethane	63		5.188				ND	
43 cis-1,2-Dichloroethene	96		5.936				ND	
44 2-Butanone (MEK)	43		5.949				ND	
48 Chlorobromomethane	128		6.222				ND	
50 Chloroform	83		6.368				ND	
51 1,1,1-Trichloroethane	97		6.539				ND	
53 Carbon tetrachloride	117		6.709				ND	
56 Benzene	78		6.940				ND	
57 1,2-Dichloroethane	62		7.013				ND	
61 Trichloroethene	130	7.675	7.676	-0.001	96	91074	42.5	
64 1,2-Dichloropropane	63		7.950				ND	
65 1,4-Dioxane	88		8.029				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
68 Dichlorobromomethane	83		8.230				ND	
71 cis-1,3-Dichloropropene	75		8.674				ND	
72 4-Methyl-2-pentanone (MIBK	43		8.826				ND	
73 Toluene	91		9.009				ND	
74 trans-1,3-Dichloropropene	75		9.252				ND	
76 1,1,2-Trichloroethane	97		9.447				ND	
77 Tetrachloroethene	164	9.524	9.526	-0.002	96	161003	83.6	
79 2-Hexanone	43		9.659				ND	
81 Chlorodibromomethane	129		9.824				ND	
82 Ethylene Dibromide	107		9.939				ND	
84 Chlorobenzene	112		10.426				ND	
86 1,1,1,2-Tetrachloroethane	131		10.523				ND	
87 Ethylbenzene	106		10.523				ND	
88 m-Xylene & p-Xylene	106		10.657				ND	
89 o-Xylene	106		11.040				ND	
90 Styrene	104		11.059				ND	
91 Bromoform	173		11.241				ND	
96 1,1,2,2-Tetrachloroethane	83		11.716				ND	
S 131 Xylenes, Total	106		1.000				ND	

Reagents:

VOA8260INT_00042	Amount Added:	2.00	Units: uL	Run Reagent
VOA8260SURR_00042	Amount Added:	2.00	Units: uL	Run Reagent

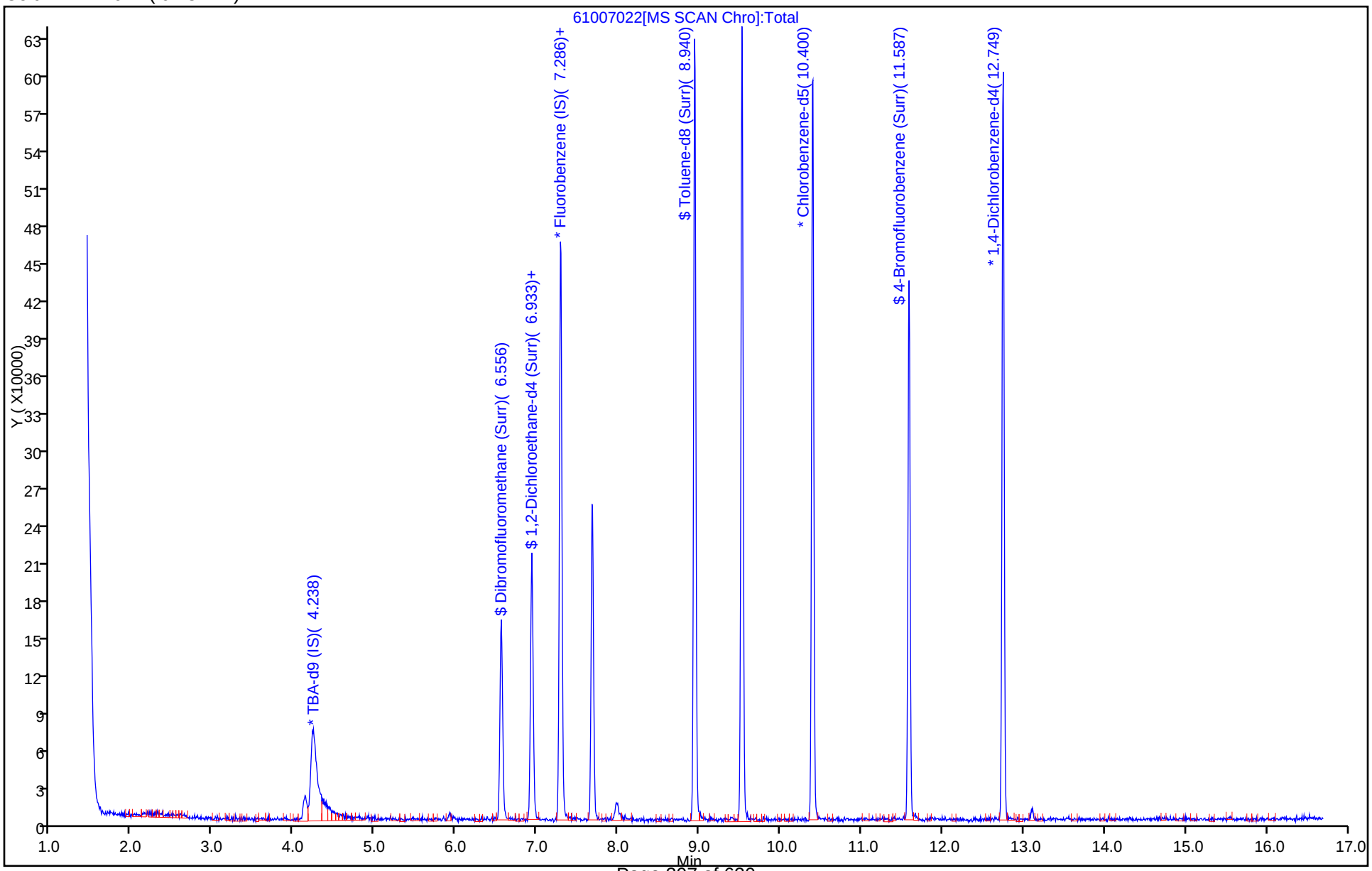
Report Date: 08-Oct-2015 08:57:29 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20151007-8874.b\61007022.D

Injection Date:	07-Oct-2015 21:15:30	Instrument ID:	CHHP6	Operator ID:	001562
Lims ID:	180-48309-C-6	Lab Sample ID:	180-48309-6	Worklist Smp#:	22
Client ID:	HD-MW-64D-0/1-0				
Purge Vol:	5.000 mL	Dil. Factor:	25.0000	ALS Bottle#:	22
Method:	MSVOA_LL_CHHP6	Limit Group:	VOA 8260C ICAL		

Column: DB-624 (0.18 mm)



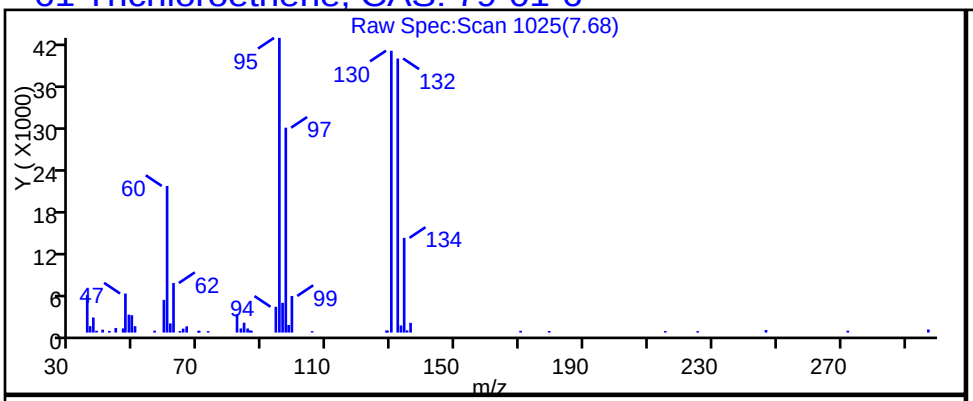
Report Date: 08-Oct-2015 08:57:29 Chrom Revision: 2.2 08-Sep-2015 13:41:46

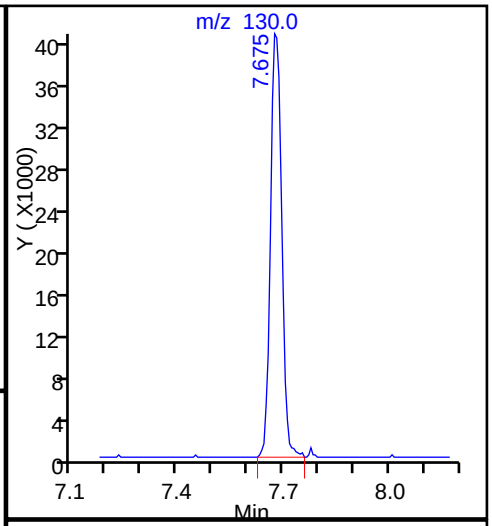
TestAmerica Pittsburgh

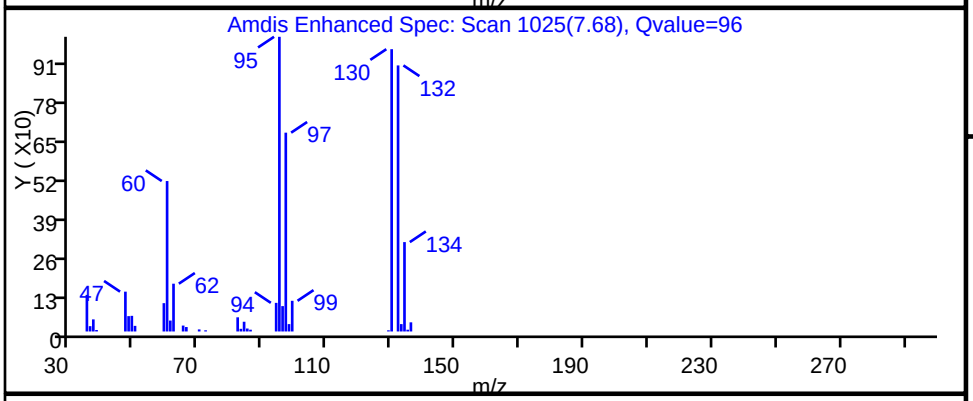
Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20151007-8874.b\61007022.D

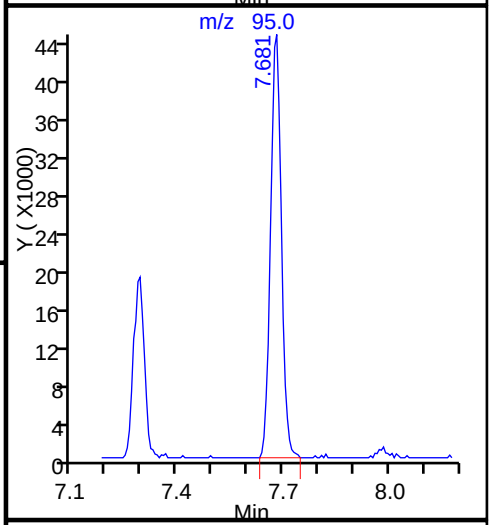
Injection Date:	07-Oct-2015 21:15:30	Instrument ID:	CHHP6		
Lims ID:	180-48309-C-6	Lab Sample ID:	180-48309-6		
Client ID:	HD-MW-64D-0/1-0				
Operator ID:	001562	ALS Bottle#:	22	Worklist Smp#:	22
Purge Vol:	5.000 mL	Dil. Factor:	25.0000		
Method:	MSVOA_LL_CHHP6	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

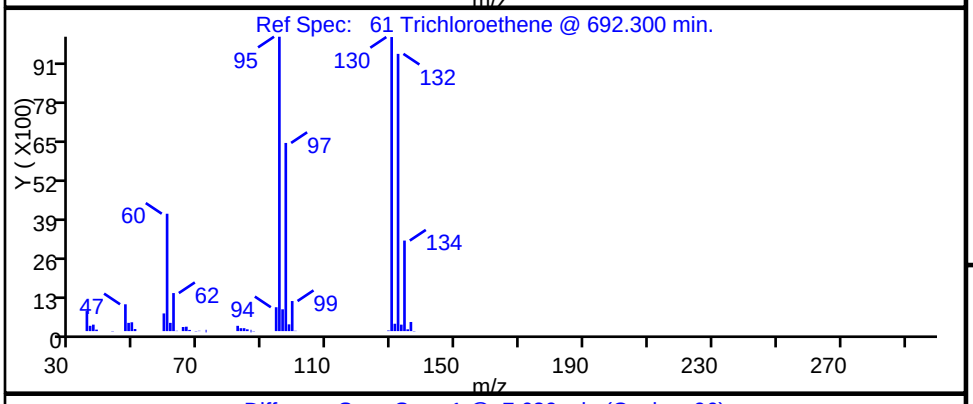
61 Trichloroethene, CAS: 79-01-6

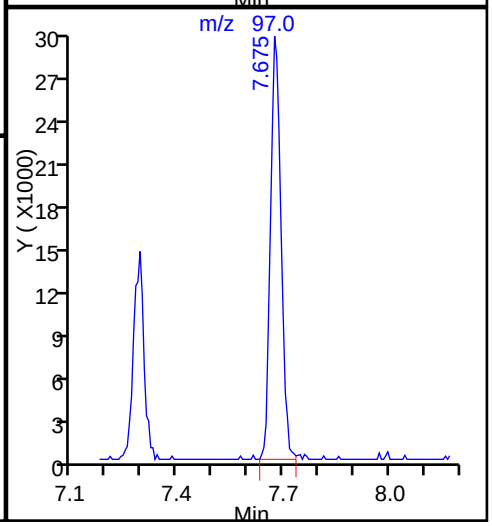


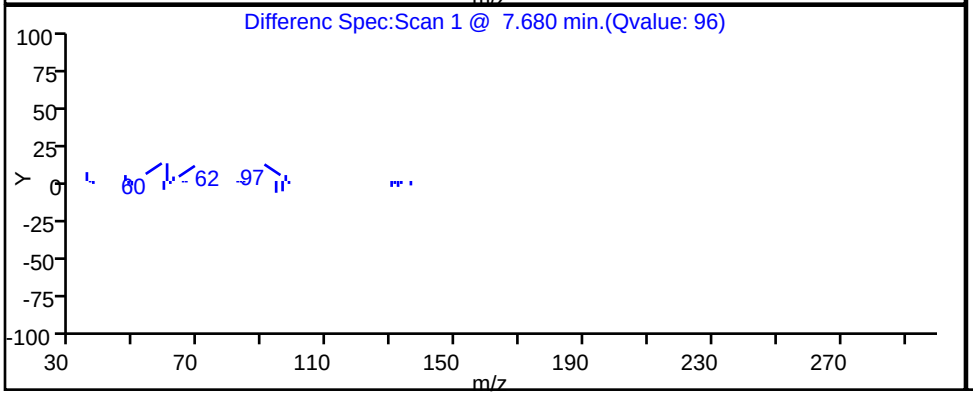












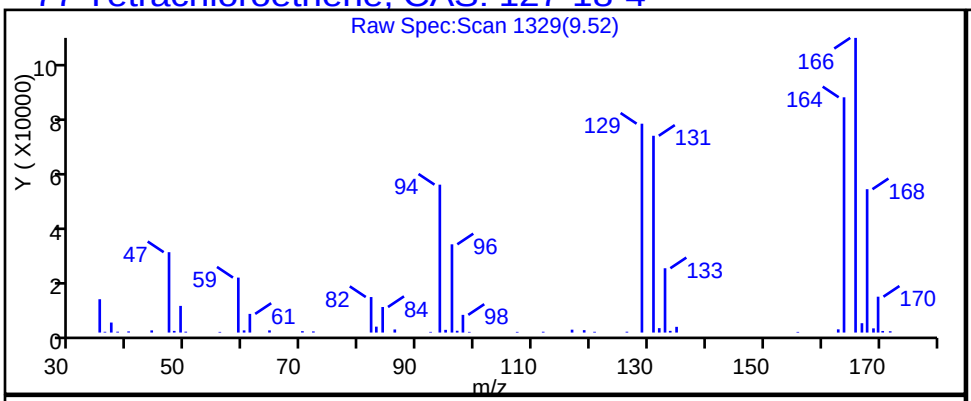
Report Date: 08-Oct-2015 08:57:29 Chrom Revision: 2.2 08-Sep-2015 13:41:46

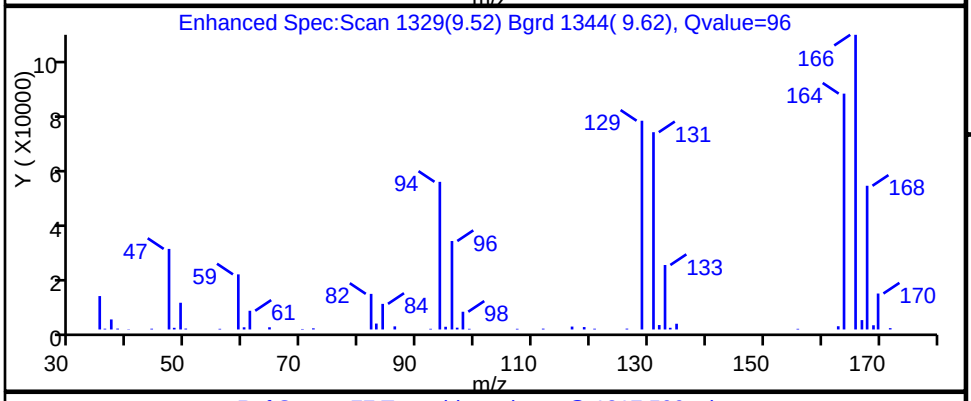
TestAmerica Pittsburgh

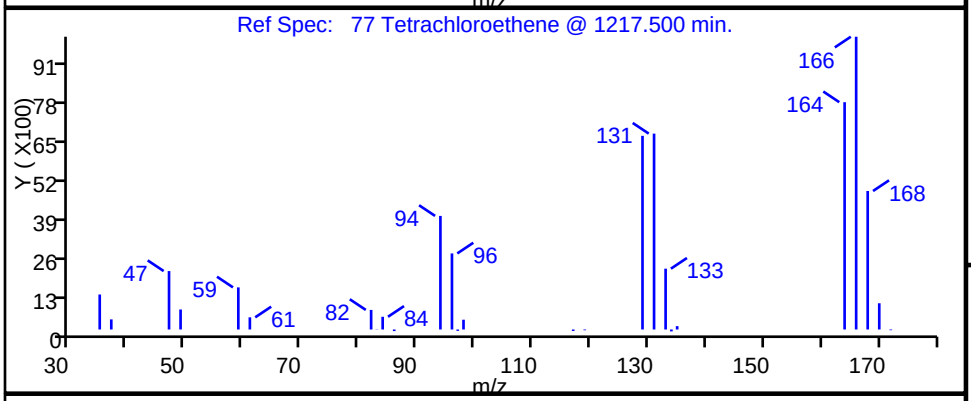
Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20151007-8874.b\61007022.D

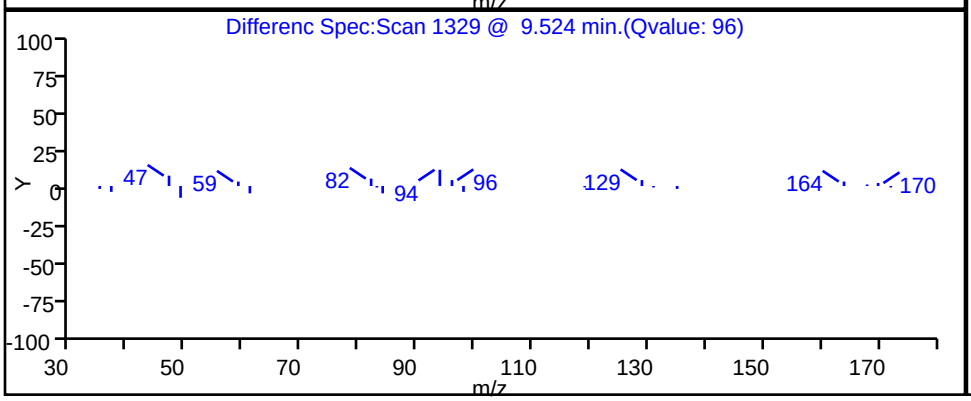
Injection Date:	07-Oct-2015 21:15:30	Instrument ID:	CHHP6		
Lims ID:	180-48309-C-6	Lab Sample ID:	180-48309-6		
Client ID:	HD-MW-64D-0/1-0				
Operator ID:	001562	ALS Bottle#:	22	Worklist Smp#:	22
Purge Vol:	5.000 mL	Dil. Factor:	25.0000		
Method:	MSVOA_LL_CHHP6	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

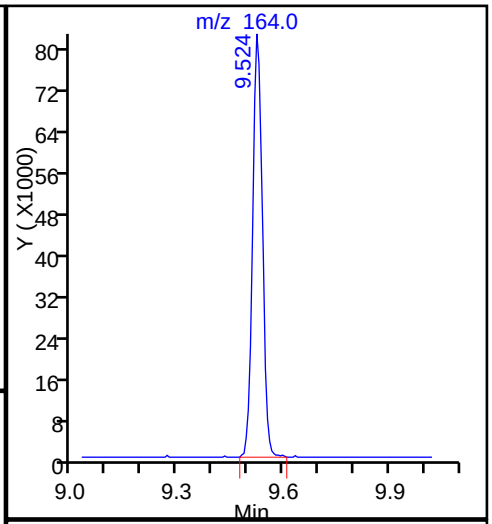
77 Tetrachloroethene, CAS: 127-18-4

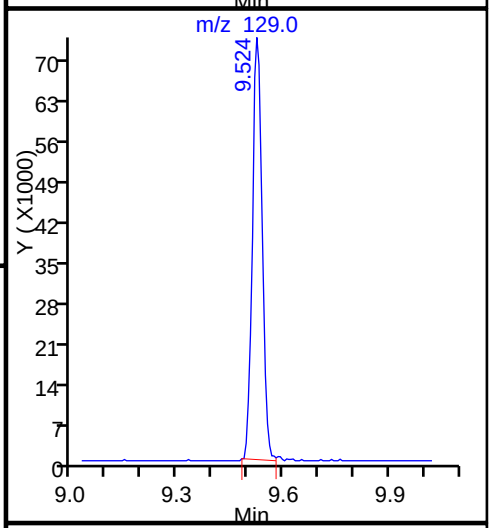


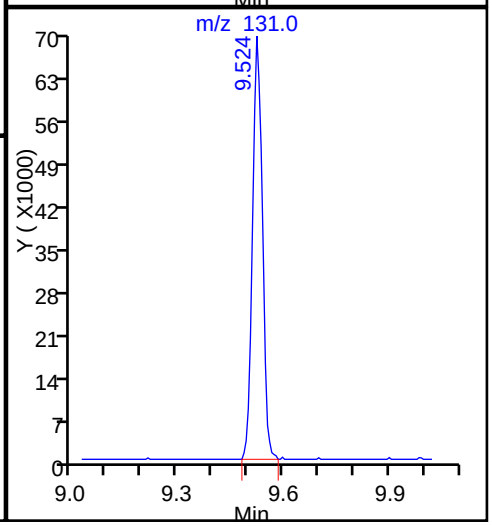












FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-48309-1

SDG No.:

Client Sample ID: HD-QC12-0/1-2 | Lab Sample ID: 180-48309-7

Matrix: Water | Lab File ID: 61007018.D

Analysis Method: 8260C | Date Collected: 09/30/2015 12:00

Sample wt/vol: 5(mL) | Date Analyzed: 10/07/2015 19:39

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 156189 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	1.0	U	1.0	0.28
75-01-4	Vinyl chloride	1.0	U	1.0	0.23
74-83-9	Bromomethane	1.0	U ^c	1.0	0.31
75-00-3	Chloroethane	1.0	U	1.0	0.21
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.30
67-64-1	Acetone	5.0	U	5.0	2.5
75-15-0	Carbon disulfide	1.0	U	1.0	0.21
75-09-2	Methylene Chloride	1.0	U	1.0	0.13
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.17
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.18
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.12
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.24
74-97-5	Bromochloromethane	1.0	U	1.0	0.18
78-93-3	2-Butanone (MEK)	5.0	U	5.0	0.55
67-66-3	Chloroform	1.0	U	1.0	0.17
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.29
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.14
71-43-2	Benzene	1.0	U	1.0	0.11
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
79-01-6	Trichloroethene	1.0	U	1.0	0.14
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.095
75-27-4	Bromodichloromethane	1.0	U	1.0	0.13
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.19
108-10-1	4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	0.53
108-88-3	Toluene	1.0	U	1.0	0.15
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.15
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.20
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
591-78-6	2-Hexanone	5.0	U ^c	5.0	0.16
124-48-1	Dibromochloromethane	1.0	U	1.0	0.14
106-93-4	1,2-Dibromoethane (EDB)	1.0	U	1.0	0.18
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U ^c	1.0	0.28
100-41-4	Ethylbenzene	1.0	U	1.0	0.23
1330-20-7	Xylenes, Total	3.0	U	3.0	0.49
100-42-5	Styrene	1.0	U ^c	1.0	0.097

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-48309-1

SDG No.:

Client Sample ID: HD-QC12-0/1-2 | Lab Sample ID: 180-48309-7

Matrix: Water | Lab File ID: 61007018.D

Analysis Method: 8260C | Date Collected: 09/30/2015 12:00

Sample wt/vol: 5(mL) | Date Analyzed: 10/07/2015 19:39

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 156189 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-25-2	Bromoform	1.0	U ^c	1.0	0.19
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.20
107-13-1	Acrylonitrile	20	U ^c	20	0.55
123-91-1	1,4-Dioxane	200	U ^c	200	34

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		64-135
2037-26-5	Toluene-d8 (Surr)	109		71-118
460-00-4	4-Bromofluorobenzene (Surr)	91		70-118
1868-53-7	Dibromofluoromethane (Surr)	106		70-128

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20151007-8874.b\61007018.D
Lims ID: 180-48309-A-7 Lab Sample ID: 180-48309-7
Client ID: HD-QC12-0/1-2
Sample Type: Client
Inject. Date: 07-Oct-2015 19:39:30 ALS Bottle#: 18 Worklist Smp#: 18
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 180-48309-A-7
Misc. Info.: 180-0008874-018
Operator ID: 001562 Instrument ID: CHHP6

Method: \\ChromNA\Pittsburgh\ChromData\CHHP6\20151007-8874.b\MSVOA_LL_CHHP6.m
Limit Group: VOA 8260C ICAL
Last Update: 08-Oct-2015 08:52:33 Calib Date: 14-Sep-2015 16:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150914-8521.b\60914006.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK015

First Level Reviewer: fergusond Date: 08-Oct-2015 08:52:33

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.229	4.245	-0.016	87	191745	1000.0	
* 2 Fluorobenzene (IS)	96	7.289	7.281	0.008	97	452546	50.0	
* 3 Chlorobenzene-d5	119	10.398	10.396	0.002	90	101366	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.752	12.750	0.002	97	173799	50.0	
$ 5 Dibromofluoromethane (Surr	113	6.559	6.551	0.008	93	110314	52.9	
$ 6 1,2-Dichloroethane-d4 (Sur	65	6.930	6.928	0.002	70	176630	52.5	
$ 7 Toluene-d8 (Surr)	98	8.944	8.942	0.002	94	434222	54.3	
$ 8 4-Bromofluorobenzene (Surr	95	11.590	11.588	0.002	90	161940	45.6	
12 Chloromethane	50	1.765	1.757	0.008	1	2750	1.02	M
13 Vinyl chloride	62		1.903				ND	
15 Bromomethane	94		2.232				ND	
16 Chloroethane	64		2.371				ND	
22 1,1-Dichloroethene	96		3.339				ND	
24 Acetone	43		3.418				ND	
26 Carbon disulfide	76		3.625				ND	
31 Methylene Chloride	84		4.124				ND	
33 Acrylonitrile	53		4.501				ND	
34 trans-1,2-Dichloroethene	96		4.568				ND	
35 Methyl tert-butyl ether	73		4.574				ND	
37 1,1-Dichloroethane	63		5.188				ND	
43 cis-1,2-Dichloroethene	96		5.936				ND	
44 2-Butanone (MEK)	43		5.949				ND	
48 Chlorobromomethane	128		6.222				ND	
50 Chloroform	83		6.368				ND	
51 1,1,1-Trichloroethane	97		6.539				ND	
53 Carbon tetrachloride	117		6.709				ND	
56 Benzene	78		6.940				ND	
57 1,2-Dichloroethane	62		7.013				ND	
61 Trichloroethene	130		7.676				ND	
64 1,2-Dichloropropane	63		7.950				ND	
65 1,4-Dioxane	88		8.029				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
68 Dichlorobromomethane	83		8.230				ND	
71 cis-1,3-Dichloropropene	75		8.674				ND	
72 4-Methyl-2-pentanone (MIBK	43		8.826				ND	
73 Toluene	91		9.009				ND	
74 trans-1,3-Dichloropropene	75		9.252				ND	
76 1,1,2-Trichloroethane	97		9.447				ND	
77 Tetrachloroethene	164		9.526				ND	
79 2-Hexanone	43		9.659				ND	
81 Chlorodibromomethane	129		9.824				ND	
82 Ethylene Dibromide	107		9.939				ND	
84 Chlorobenzene	112		10.426				ND	
86 1,1,1,2-Tetrachloroethane	131		10.523				ND	
87 Ethylbenzene	106		10.523				ND	
88 m-Xylene & p-Xylene	106		10.657				ND	
89 o-Xylene	106		11.040				ND	
90 Styrene	104		11.059				ND	
91 Bromoform	173		11.241				ND	
96 1,1,2,2-Tetrachloroethane	83		11.716				ND	
S 131 Xylenes, Total	106		1.000				ND	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

VOA8260INT_00042	Amount Added:	2.00	Units: uL	Run Reagent
VOA8260SURR_00042	Amount Added:	2.00	Units: uL	Run Reagent

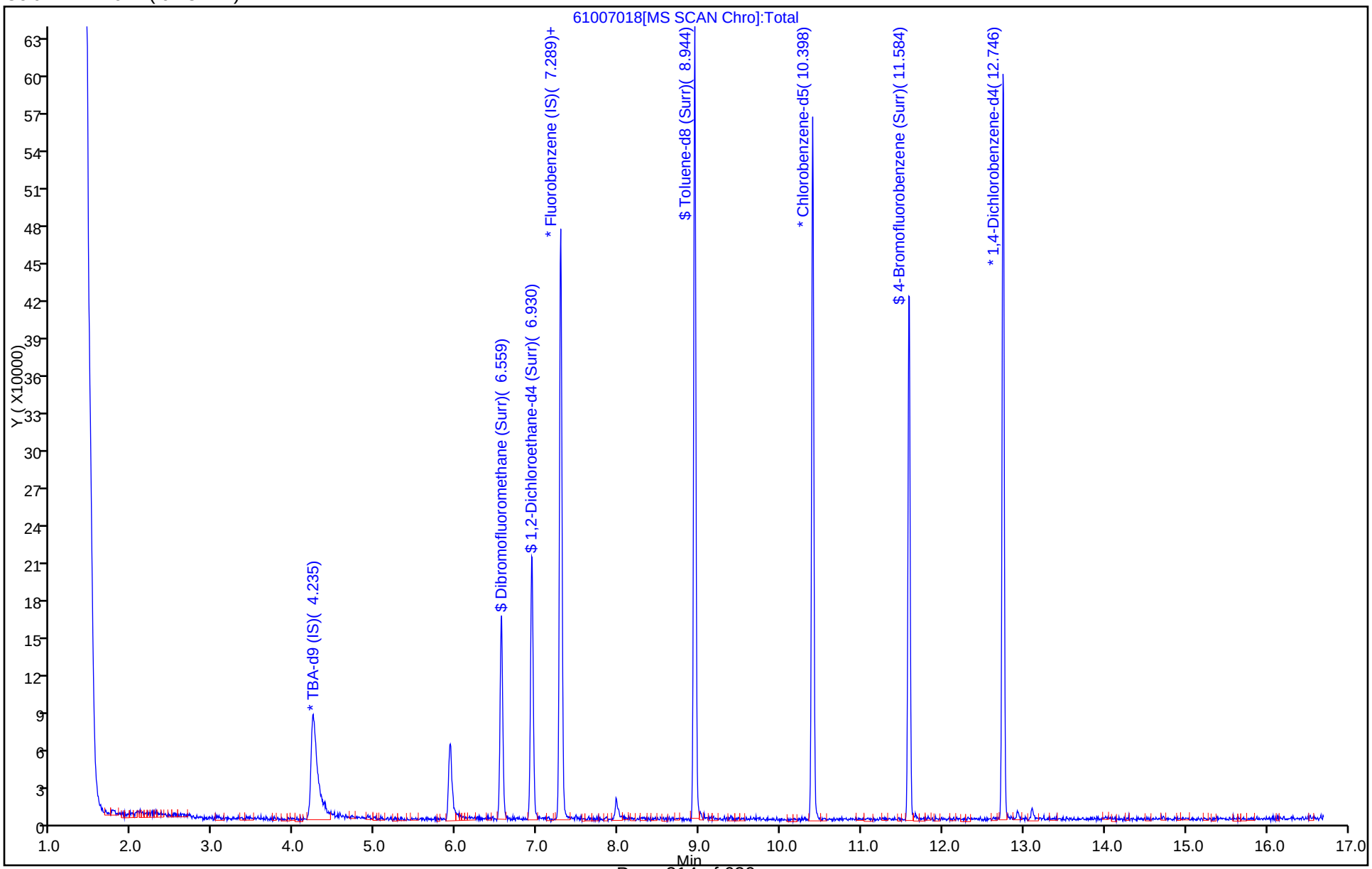
Report Date: 08-Oct-2015 08:52:33 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20151007-8874.b\61007018.D

Injection Date:	07-Oct-2015 19:39:30	Instrument ID:	CHHP6	Operator ID:	001562
Lims ID:	180-48309-A-7	Lab Sample ID:	180-48309-7	Worklist Smp#:	18
Client ID:	HD-QC12-0/1-2				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	18
Method:	MSVOA_LL_CHHP6	Limit Group:	VOA 8260C ICAL		

Column: DB-624 (0.18 mm)



Manual Integration/User Assign Peak Report

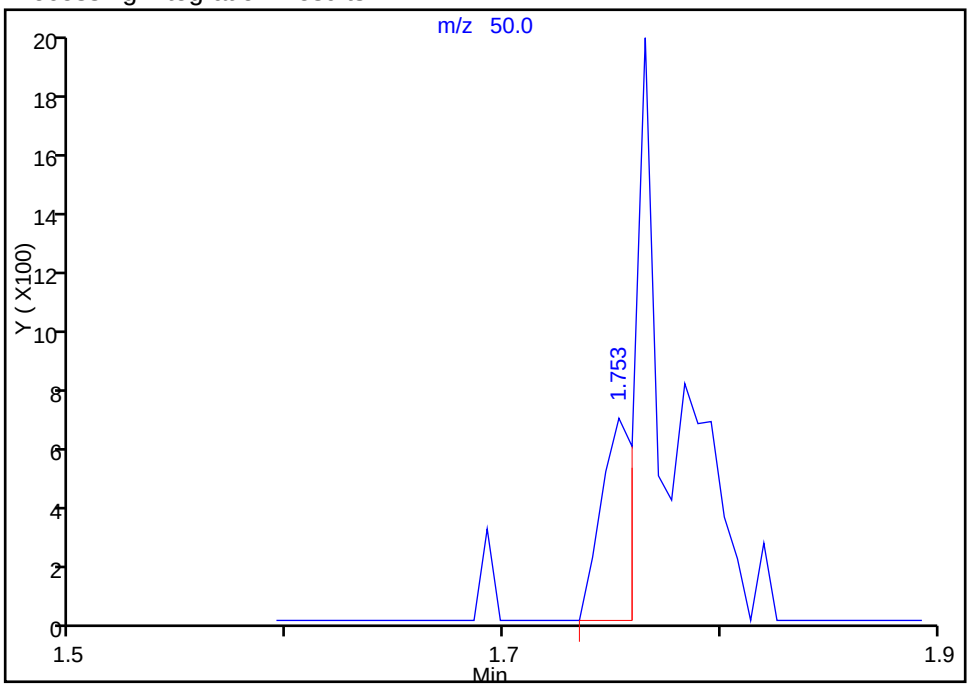
TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHHP6\20151007-8874.b\61007018.D				
Injection Date:	07-Oct-2015 19:39:30	Instrument ID:	CHHP6		
Lims ID:	180-48309-A-7	Lab Sample ID:	180-48309-7		
Client ID:	HD-QC12-0/1-2				
Operator ID:	001562	ALS Bottle#:	18	Worklist Smp#:	18
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVOA_LL_CHHP6	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

12 Chloromethane, CAS: 74-87-3

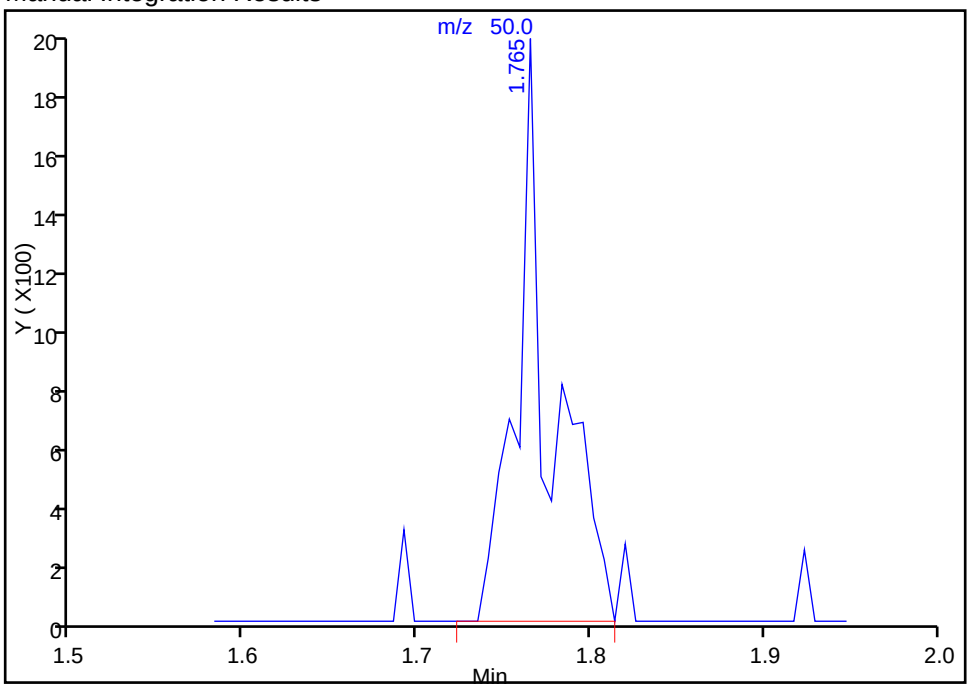
Processing Integration Results

RT: 1.75
Area: 724
Amount: 0.268066
Amount Units: ng



Manual Integration Results

RT: 1.77
Area: 2750
Amount: 1.018207
Amount Units: ng



Reviewer: fergusond, 08-Oct-2015 08:52:33
Audit Action: Manually Integrated
Audit Reason: Incomplete Integration

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Pittsburgh Job No.: 180-48309-1 Analy Batch No.: 151868

SDG No.:

Instrument ID: CHHP5 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/26/2015 15:04 Calibration End Date: 08/26/2015 17:52 Calibration ID: 25113

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-151868/6	50826006.D
Level 2	IC 180-151868/8	50826008.D
Level 3	ICIS 180-151868/9	50826009.D
Level 4	IC 180-151868/10	50826010.D
Level 5	IC 180-151868/11	50826011.D
Level 6	IC 180-151868/12	50826012.D
Level 7	IC 180-151868/13	50826013.D
Level 8	IC 180-151868/14	50826014.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Dichlorodifluoromethane	0.3287 0.2623	0.2973 0.2575	0.3036 0.2768	0.2652	0.2686	Ave		0.2825			0.1000	8.8		20.0			
Chloromethane	0.5129 0.3809	0.4550 0.3728	0.4119 0.4194	0.3793	0.3858	Ave		0.4148			0.1000	11.6		20.0			
Vinyl chloride	0.4001 0.3434	0.3977 0.3372	0.3943 0.3699	0.3444	0.3565	Ave		0.3679			0.1000	7.2		20.0			
1,3-Butadiene	0.5239 0.3986	0.4751 0.3875	0.4623 0.4226	0.3955	0.4108	Ave		0.4345			0.0100	11.0		20.0			
Bromomethane	0.1691 0.1521	0.1576 0.1241	0.1270 0.1576	0.1608	0.1494	Ave		0.1497			0.0500	10.7		20.0			
Chloroethane	0.2791 0.2041	0.2380 0.2011	0.2154 0.2199	0.2110	0.2070	Ave		0.2220			0.0500	11.6		20.0			
Dichlorofluoromethane	0.5546 0.4260	0.5213 0.4285	0.5031 0.4664	0.4321	0.4354	Ave		0.4709			0.0100	10.5		20.0			
Trichlorofluoromethane	0.3948 0.3299	0.3814 0.3233	0.3774 0.3496	0.3273	0.3345	Ave		0.3523			0.1000	8.0		20.0			
Ethyl ether	0.4234 0.2964	0.3324 0.2960	0.3164 0.3549	0.2973	0.2952	Ave		0.3265			0.0100	13.7		20.0			
Acrolein	0.0512 0.0479	0.0489 0.0478	0.0480 0.0550	0.0441	0.0462	Ave		0.0486			0.0100	6.7		20.0			
1,1-Dichloroethene	0.2946 0.2694	0.2816 0.2624	0.2875 0.2968	0.2618	0.2736	Ave		0.2785			0.1000	5.0		20.0			
1,1,2-Trichloro-1,2,2-trifluoroethane	0.3300 0.2776	0.3157 0.2707	0.3079 0.2975	0.2771	0.2839	Ave		0.2951			0.1000	7.2		20.0			
Acetone	0.1264 0.0944	0.1213 0.0888	0.0958 0.1083	0.0854	0.0868	Ave		0.1009			0.0500	15.8		20.0			
Iodomethane	0.4682 0.3963	0.4179 0.3889	0.4130 0.4559	0.3863	0.3938	Ave		0.4150			0.0100	7.5		20.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Pittsburgh Job No.: 180-48309-1 Analy Batch No.: 151868

SDG No.:

Instrument ID: CHHP5 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/26/2015 15:04 Calibration End Date: 08/26/2015 17:52 Calibration ID: 25113

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Carbon disulfide	0.6362 0.6697	0.5938 0.6592	0.6262 0.7601	0.5915	0.6365	Ave		0.6466			0.1000	8.3		20.0			
Allyl chloride	0.1392 0.1626	0.1500 0.1654	0.1522 0.1887	0.1471	0.1566	Ave		0.1577			0.0100	9.6		20.0			
Methyl acetate	0.3337 0.2890	0.3263 0.2857	0.2882 0.3263	0.2787	0.2836	Ave		0.3015			0.1000	7.6		20.0			
Methylene Chloride	0.6517 0.2904	0.3723 0.2913	0.3258 0.3382	0.3056	0.2911	Lin2	1.8054	0.2910			0.1000				0.9950		0.9900
tert-Butyl alcohol	1.3524 1.1479	1.0348 1.0778	1.0400 1.1523	1.0913	1.1079	Ave		1.1255			0.0100	9.0		20.0			
Acrylonitrile	0.1618 0.1395	0.1545 0.1388	0.1504 0.1578	0.1327	0.1347	Ave		0.1463			0.0100	7.7		20.0			
trans-1,2-Dichloroethene	0.3383 0.2905	0.3111 0.2805	0.3070 0.3253	0.2770	0.2891	Ave		0.3024			0.1000	7.2		20.0			
Methyl tert-butyl ether	0.7340 0.6851	0.6905 0.6950	0.6558 0.8276	0.6473	0.6637	Ave		0.6999			0.1000	8.3		20.0			
Hexane	0.5487 0.5062	0.5124 0.4822	0.5150 0.5325	0.4707	0.4929	Ave		0.5076			0.0100	5.1		20.0			
1,1-Dichloroethane	0.6731 0.5678	0.6009 0.5615	0.5929 0.6517	0.5533	0.5641	Ave		0.5957			0.2000	7.5		20.0			
Vinyl acetate	0.4658 0.4559	0.4321 0.4509	0.4142 0.5072	0.4114	0.4375	Ave		0.4469			0.0100	6.9		20.0			
2,2-Dichloropropane	0.2543 0.2353	0.2294 0.2294	0.2373 0.2670	0.2227	0.2344	Ave		0.2387			0.0100	6.1		20.0			
cis-1,2-Dichloroethene	0.3560 0.3133	0.3276 0.3052	0.3171 0.3596	0.3029	0.3027	Ave		0.3230			0.1000	7.1		20.0			
2-Butanone (MEK)	0.1700 0.1465	0.1604 0.1446	0.1482 0.1652	0.1430	0.1348	Ave		0.1516			0.0500	8.1		20.0			
Bromochloromethane	0.1549 0.1331	0.1498 0.1336	0.1364 0.1592	0.1347	0.1330	Ave		0.1418			0.0100	7.7		20.0			
Tetrahydrofuran	0.1584 0.1188	0.1210 0.1173	0.1165 0.1328	0.1044	0.1035	Ave		0.1216			0.0100	14.4		20.0			
Chloroform	0.6121 0.4769	0.5334 0.4687	0.5043 0.5518	0.4874	0.4825	Ave		0.5146			0.2000	9.5		20.0			
1,1,1-Trichloroethane	0.3907 0.3764	0.3802 0.3610	0.3863 0.4248	0.3588	0.3661	Ave		0.3805			0.1000	5.6		20.0			
Cyclohexane	0.6174 0.6347	0.6332 0.6154	0.6564 0.6862	0.6129	0.6374	Ave		0.6367			0.1000	3.9		20.0			
Carbon tetrachloride	0.3208 0.3222	0.3255 0.3130	0.3231 0.3616	0.3071	0.3191	Ave		0.3240			0.1000	5.0		20.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Pittsburgh Job No.: 180-48309-1 Analy Batch No.: 151868

SDG No.:

Instrument ID: CHHP5 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/26/2015 15:04 Calibration End Date: 08/26/2015 17:52 Calibration ID: 25113

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
1,1-Dichloropropene	0.4109 0.4177	0.4291 0.3991	0.4295 0.4615	0.4010	0.4176	Ave		0.4208			0.0100	4.7		20.0			
Isobutyl alcohol	0.0095 0.0095	0.0091 0.0100	0.0099 0.0111	0.0081	0.0090	Ave		0.0095		*	0.0100	9.4		20.0			
Benzene	1.3619 1.1379	1.3471 1.1166	1.2583 1.2803	1.1865	1.1745	Ave		1.2329			0.5000	7.6		20.0			
1,2-Dichloroethane	0.4741 0.4037	0.4480 0.4008	0.4163 0.4668	0.4018	0.3996	Ave		0.4264			0.1000	7.4		20.0			
n-Heptane	0.4905 0.4664	0.4584 0.4370	0.4667 0.4920	0.4330	0.4446	Ave		0.4611			0.0100	4.9		20.0			
Trichloroethene	0.3438 0.2884	0.3023 0.2830	0.3001 0.3282	0.2819	0.2852	Ave		0.3016			0.2000	7.6		20.0			
Methylcyclohexane	0.4249 0.4931	0.4566 0.4767	0.4833 0.5272	0.4569	0.4841	Ave		0.4753			0.1000	6.4		20.0			
1,2-Dichloropropane	0.3806 0.3114	0.3166 0.3023	0.3142 0.3619	0.2970	0.3041	Ave		0.3235			0.1000	9.5		20.0			
1,4-Dioxane	0.0018 0.0024	0.0022 0.0023	0.0022 0.0026	0.0021	0.0022	Ave		0.0022		*	0.0100	11.0		20.0			
Dibromomethane	0.1726 0.1580	0.1745 0.1564	0.1618 0.1826	0.1547	0.1528	Ave		0.1642			0.0100	6.7		20.0			
Bromodichloromethane	0.3187 0.3277	0.3165 0.3275	0.3067 0.3841	0.3076	0.3105	Ave		0.3249			0.2000	7.8		20.0			
cis-1,3-Dichloropropene	0.3262 0.4065	0.3324 0.4128	0.3462 0.4886	0.3587	0.3740	Ave		0.3807			0.2000	14.2		20.0			
4-Methyl-2-pentanone (MIBK)	1.0903 1.2759	1.2109 1.2196	1.2320 1.3578	1.2204	1.2490	Ave		1.2320			0.1000	6.0		20.0			
Toluene	5.5703 4.5203	5.5571 4.1167	5.4822 4.5535	4.9121	4.8891	Ave		4.9502			0.4000	11.0		20.0			
trans-1,3-Dichloropropene	1.1012 1.3656	1.2222 1.3022	1.2566 1.5136	1.2587	1.3145	Ave		1.2918			0.1000	9.2		20.0			
Ethyl methacrylate	1.0084 1.3290	1.1451 1.2693	1.2245 1.4637	1.2645	1.2889	Ave		1.2492			0.0100	10.7		20.0			
1,1,2-Trichloroethane	0.9854 0.8899	1.0921 0.8150	0.9726 0.9474	0.9168	0.9135	Ave		0.9416			0.1000	8.6		20.0			
Tetrachloroethene	1.1379 0.8860	1.0568 0.8108	1.0252 0.9003	0.9316	0.9384	Ave		0.9609			0.2000	11.0		20.0			
1,3-Dichloropropane	1.9919 1.6394	1.8881 1.5526	1.7977 1.7492	1.7044	1.6621	Ave		1.7482			0.0100	8.1		20.0			
2-Hexanone	0.8243 0.9047	0.9086 0.8711	0.9027 0.9534	0.8729	0.8767	Ave		0.8893			0.1000	4.2		20.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Pittsburgh Job No.: 180-48309-1 Analy Batch No.: 151868

SDG No.:

Instrument ID: CHHP5 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/26/2015 15:04 Calibration End Date: 08/26/2015 17:52 Calibration ID: 25113

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Dibromochloromethane	0.7656 0.8311	0.7604 0.7903	0.8248 0.9219	0.8043	0.8232	Ave		0.8152			0.1000	6.2		20.0			
1,2-Dibromoethane (EDB)	0.9759 0.8616	0.9872 0.8306	0.9279 0.9400	0.8704	0.8651	Ave		0.9073			0.1000	6.4		20.0			
3-Chlorobenzotrifluoride	1.9141 1.5139	1.7300 1.3853	1.7441 1.3810	1.5596	1.4979	Ave		1.5907			0.0100	11.9		20.0			
Chlorobenzene	3.7359 2.9360	3.5057 2.7547	3.3592 3.0452	3.0983	3.0632	Ave		3.1873			0.5000	10.1		20.0			
4-Chlorobenzotrifluoride	1.7602 1.4166	1.6482 1.3106	1.6401 1.3278	1.5024	1.4249	Ave		1.5038			0.0100	10.9		20.0			
1,1,1,2-Tetrachloroethane	1.1225 0.9996	1.0966 0.9489	1.0413 1.0904	1.0057	1.0062	Ave		1.0389			0.0100	5.7		20.0			
Ethylbenzene	1.6196 1.6672	1.7534 1.5472	1.8359 1.7000	1.6962	1.6973	Ave		1.6896			0.1000	5.1		20.0			
m-Xylene & p-Xylene	1.9469 2.0590	2.1320 1.8861	2.2561 2.1036	2.0873	2.1024	Ave		2.0717			0.1000	5.5		20.0			
o-Xylene	1.7875 1.9631	1.9618 1.8192	2.1700 2.0438	2.0181	1.9885	Ave		1.9690			0.3000	6.2		20.0			
Styrene	2.9089 3.2190	3.4288 3.0069	3.5226 3.3091	3.3907	3.3066	Ave		3.2616			0.3000	6.4		20.0			
Bromoform	0.4690 0.4795	0.4313 0.4703	0.4499 0.5395	0.4346	0.4474	Ave		0.4652			0.1000	7.4		20.0			
2-Chlorobenzotrifluoride	1.7885 1.4787	1.7489 1.3827	1.7033 1.3749	1.5707	1.4741	Ave		1.5652			0.0100	10.5		20.0			
Isopropylbenzene	4.3653 4.6596	5.1113 4.2808	5.5491 4.6316	4.9755	5.0001	Ave		4.8217			0.1000	8.7		20.0			
1,1,2,2-Tetrachloroethane	1.4661 1.1699	1.3993 1.1182	1.3725 1.2326	1.2215	1.1808	Ave		1.2701			0.3000	9.9		20.0			
Bromobenzene	0.9000 0.8558	0.8314 0.8194	0.8380 0.9507	0.8287	0.8423	Ave		0.8583			0.0100	5.2		20.0			
trans-1,4-Dichloro-2-butene	0.2917 0.3299	0.2806 0.3207	0.2875 0.3711	0.2997	0.3010	Ave		0.3103			0.0100	9.5		20.0			
1,2,3-Trichloropropane	0.3063 0.2797	0.2926 0.2700	0.2690 0.3158	0.2674	0.2639	Ave		0.2831			0.0100	6.9		20.0			
N-Propylbenzene	0.8996 1.0031	0.9330 0.9647	1.0104 1.0875	0.9757	0.9863	Ave		0.9825			0.0100	5.7		20.0			
2-Chlorotoluene	0.7422 0.8347	0.8275 0.8182	0.8534 0.9287	0.8318	0.8446	Ave		0.8351			0.0100	6.1		20.0			
3-Chlorotoluene	0.8266 0.8699	0.8669 0.8353	0.8759 0.8984	0.8585	0.8348	Ave		0.8583			0.0100	2.9		20.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Pittsburgh Job No.: 180-48309-1 Analy Batch No.: 151868

SDG No.:

Instrument ID: CHHP5 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/26/2015 15:04 Calibration End Date: 08/26/2015 17:52 Calibration ID: 25113

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
1,3,5-Trimethylbenzene	2.3645 2.7734	2.8908 2.6232	2.9957 2.8967	2.8185	2.8452	Ave		2.7760			0.0100	7.1		20.0			
4-Chlorotoluene	0.8633 0.9172	0.9746 0.8728	0.9234 0.9963	0.8946	0.9096	Ave		0.9190			0.0100	5.0		20.0			
tert-Butylbenzene	1.8741 2.3430	2.1778 2.2068	2.3521 2.4799	2.2754	2.3463	Ave		2.2569			0.0100	8.0		20.0			
1,2,4-Trimethylbenzene	2.3075 2.7925	2.8627 2.6520	2.9863 2.9459	2.8624	2.8401	Ave		2.7812			0.0100	7.8		20.0			
3,4-Dichlorobenzotrifluoride	0.9332 0.7629	0.7706 0.7120	0.8114 0.7421	0.7469	0.7246	Ave		0.7754			0.0100	9.1		20.0			
sec-Butylbenzene	2.7780 3.1978	3.2532 3.0155	3.5024 3.2789	3.1902	3.2760	Ave		3.1865			0.0100	6.7		20.0			
1,3-Dichlorobenzene	1.5731 1.4773	1.6002 1.4395	1.5858 1.6167	1.4673	1.4672	Ave		1.5284			0.6000	4.7		20.0			
4-Isopropyltoluene	2.1994 2.7400	2.7068 2.6136	2.9233 2.8630	2.7523	2.7684	Ave		2.6959			0.0100	8.2		20.0			
1,4-Dichlorobenzene	1.8395 1.4959	1.6730 1.4568	1.6062 1.6474	1.5057	1.4918	Ave		1.5895			0.5000	8.1		20.0			
2,4-Dichlorobenzotrifluoride	0.8167 0.7142	0.7458 0.6499	0.7804 0.6801	0.6991	0.6616	Ave		0.7185			0.0100	8.2		20.0			
2,5-Dichlorobenzotrifluoride	0.8953 0.7661	0.7731 0.7682	0.8004 0.7491	0.7462	0.7137	Ave		0.7765			0.0100	7.0		20.0			
n-Butylbenzene	1.9548 2.3709	2.2758 2.2727	2.5056 2.4426	2.2735	2.3594	Ave		2.3069			0.0100	7.2		20.0			
1,2-Dichlorobenzene	1.6347 1.3388	1.5012 1.3288	1.4944 1.4525	1.3452	1.3303	Ave		1.4282			0.4000	7.8		20.0			
1,2-Dibromo-3-Chloropropane	0.1072 0.1191	0.1212 0.1226	0.1194 0.1351	0.1034	0.1102	Ave		0.1173			0.0500	8.6		20.0			
2,4- & 2,5- & 2,6- Dichlorotoluene	0.7554 0.8278	0.7846 0.8399	0.9569 0.8065	0.7811	0.7733	Ave		0.8157			0.0100	7.8		20.0			
2,3- & 3,4- Dichlorotoluene	0.7045 0.7833	0.7591 0.8096	0.9510 0.7804	0.7194	0.7151	Ave		0.7778			0.0100	10.2		20.0			
1,2,4-Trichlorobenzene	0.5337 0.5349	0.5713 0.5698	0.6897 0.5692	0.4840	0.4928	Ave		0.5557			0.2000	11.5		20.0			
Hexachlorobutadiene	0.2789 0.2527	0.2957 0.2535	0.3393 0.2508	0.2366	0.2338	Ave		0.2677			0.0100	13.3		20.0			
Naphthalene	1.2233 1.4724	1.2705 1.5865	1.7478 1.5810	1.2452	1.2988	Ave		1.4282			0.0100	13.7		20.0			
1,2,3-Trichlorobenzene	0.4915 0.4124	0.4501 0.4480	0.5796 0.4500	0.3828	0.3844	Ave		0.4498			0.0100	14.2		20.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Pittsburgh Job No.: 180-48309-1 Analy Batch No.: 151868

SDG No.:

Instrument ID: CHHP5 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/26/2015 15:04 Calibration End Date: 08/26/2015 17:52 Calibration ID: 25113

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
2,4,5-Trichlorotoluene	0.1695 0.1581	0.1451 0.1827	0.2185 0.1750	0.1232	0.1263	Ave		0.1623			0.0100	19.4		20.0			
2,3,6-Trichlorotoluene	0.1057 +++++	0.1323 +++++	0.2120 +++++	0.1162	0.1265	Ave		0.1496			0.0100	24.0	*	20.0			
Dibromofluoromethane (Surr)	0.2897 0.2274	0.2548 0.2230	0.2447 0.2662	0.2287	0.2299	Ave		0.2455				9.5		20.0			
1,2-Dichloroethane-d4 (Surr)	0.4203 0.3099	0.3560 0.3035	0.3369 0.3556	0.3100	0.3058	Ave		0.3373				11.9		20.0			
Toluene-d8 (Surr)	4.5689 3.4832	4.1450 3.1902	4.3481 3.5716	3.8169	3.7347	Ave		3.8573				12.1		20.0			
4-Bromofluorobenzene (Surr)	1.6296 1.3602	1.5022 1.2884	1.5824 1.4505	1.4462	1.3812	Ave		1.4551				7.8		20.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Pittsburgh Job No.: 180-48309-1 Analy Batch No.: 151868

SDG No.:

Instrument ID: CHHP5 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/26/2015 15:04 Calibration End Date: 08/26/2015 17:52 Calibration ID: 25113

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-151868/6	50826006.D
Level 2	IC 180-151868/8	50826008.D
Level 3	ICIS 180-151868/9	50826009.D
Level 4	IC 180-151868/10	50826010.D
Level 5	IC 180-151868/11	50826011.D
Level 6	IC 180-151868/12	50826012.D
Level 7	IC 180-151868/13	50826013.D
Level 8	IC 180-151868/14	50826014.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Dichlorodifluoromethane	FB	Ave	13335 461015	63359 506611	139988 585297	195493	268740	5.00 175	25.0 200	50.0 250	75.0	100
Chloromethane	FB	Ave	20806 669660	96975 733518	189967 886889	279657	386017	5.00 175	25.0 200	50.0 250	75.0	100
Vinyl chloride	FB	Ave	16232 603655	84746 663498	181809 782206	253941	356745	5.00 175	25.0 200	50.0 250	75.0	100
1,3-Butadiene	FB	Ave	21253 700624	101243 762590	213171 893578	291582	411077	5.00 175	25.0 200	50.0 250	75.0	100
Bromomethane	FB	Ave	6860 267454	33586 244127	58568 333317	118541	149495	5.00 175	25.0 200	50.0 250	75.0	100
Chloroethane	FB	Ave	11321 358728	50718 395735	99329 465079	155578	207155	5.00 175	25.0 200	50.0 250	75.0	100
Dichlorofluoromethane	FB	Ave	22499 748877	111107 843233	232009 986298	318608	435665	5.00 175	25.0 200	50.0 250	75.0	100
Trichlorofluoromethane	FB	Ave	16013 579992	81291 636269	174036 739174	241309	334740	5.00 175	25.0 200	50.0 250	75.0	100
Ethyl ether	FB	Ave	17175 521056	70836 582513	145899 750491	219194	295395	5.00 175	25.0 200	50.0 250	75.0	100
Acrolein	FB	Ave	41531 108307	52087 117496	66358 127965	75936	92519	100 225	125 250	150 275	175	200
1,1-Dichloroethene	FB	Ave	11952 473565	60024 516257	132602 627614	192998	273818	5.00 175	25.0 200	50.0 250	75.0	100
1,1,2-Trichloro-1,2,2-trifluoroethane	FB	Ave	13388 488054	67283 532678	141996 629046	204297	284081	5.00 175	25.0 200	50.0 250	75.0	100
Acetone	FB	Ave	25628 332039	51703 349354	88342 457819	125942	173687	25.0 350	50.0 400	100 500	150	200
Iodomethane	FB	Ave	18992 696716	89056 765249	190440 963985	284793	394076	5.00 175	25.0 200	50.0 250	75.0	100
Carbon disulfide	FB	Ave	25807 1177201	126552 1297173	288788 1607306	436105	636866	5.00 175	25.0 200	50.0 250	75.0	100

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Pittsburgh Job No.: 180-48309-1 Analy Batch No.: 151868

SDG No.:

Instrument ID: CHHP5 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/26/2015 15:04 Calibration End Date: 08/26/2015 17:52 Calibration ID: 25113

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Allyl chloride	FB	Ave	5646 285911	31974 325399	70192 399041	108440	156677	5.00 175	25.0 200	50.0 250	75.0	100
Methyl acetate	FB	Ave	67684 2539904	347746 2811173	664608 3450277	1027560	1419018	25.0 875	125 1000	250 1250	375	500
Methylene Chloride	FB	Lin2	26437 510471	79338 573290	150258 715184	225319	291271	5.00 175	25.0 200	50.0 250	75.0	100
tert-Butyl alcohol	TBA	Ave	9257 352268	39038 410928	81932 514360	122262	185374	50.0 1750	250 2000	500 2500	750	1000
Acrylonitrile	FB	Ave	65631 2452551	329204 2730347	693478 3337347	978697	1347643	50.0 1750	250 2000	500 2500	750	1000
trans-1,2-Dichloroethene	FB	Ave	13723 510637	66301 552053	141577 687878	204201	289331	5.00 175	25.0 200	50.0 250	75.0	100
Methyl tert-butyl ether	FB	Ave	29774 1204325	147150 1367672	302403 1750025	477236	664089	5.00 175	25.0 200	50.0 250	75.0	100
Hexane	FB	Ave	22257 889892	109198 948868	237492 1125958	347025	493203	5.00 175	25.0 200	50.0 250	75.0	100
1,1-Dichloroethane	FB	Ave	27303 998105	128072 1104940	273423 1377944	407919	564450	5.00 175	25.0 200	50.0 250	75.0	100
Vinyl acetate	FB	Ave	18896 801339	92081 887283	191017 1072494	303320	437799	5.00 175	25.0 200	50.0 250	75.0	100
2,2-Dichloropropane	FB	Ave	10315 413686	48880 451339	109416 564524	164171	234514	5.00 175	25.0 200	50.0 250	75.0	100
cis-1,2-Dichloroethene	FB	Ave	14442 550789	69819 600559	146208 760457	223289	302874	5.00 175	25.0 200	50.0 250	75.0	100
2-Butanone (MEK)	FB	Ave	34471 514894	68384 569128	136667 698551	210830	269779	25.0 350	50.0 400	100 500	150	200
Bromochloromethane	FB	Ave	6284 234034	31931 262832	62915 336595	99282	133128	5.00 175	25.0 200	50.0 250	75.0	100
Tetrahydrofuran	FB	Ave	12850 417684	51589 461621	107444 561739	153971	207145	10.0 350	50.0 400	100 500	150	200
Chloroform	FB	Ave	24828 838419	113670 922240	232542 1166838	359318	482795	5.00 175	25.0 200	50.0 250	75.0	100
1,1,1-Trichloroethane	FB	Ave	15850 661680	81030 710348	178131 898258	264507	366328	5.00 175	25.0 200	50.0 250	75.0	100
Cyclohexane	FB	Ave	25044 1115710	134937 1210903	302702 1451032	451893	637776	5.00 175	25.0 200	50.0 250	75.0	100
Carbon tetrachloride	FB	Ave	13013 566329	69375 616016	148991 764597	226405	319309	5.00 175	25.0 200	50.0 250	75.0	100
1,1-Dichloropropene	FB	Ave	16668 734207	91438 785333	198075 975802	295676	417880	5.00 175	25.0 200	50.0 250	75.0	100
Isobutyl alcohol	FB	Ave	9663 417725	48239 492768	113924 588608	149085	224262	125 4375	625 5000	1250 6250	1875	2500

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Pittsburgh Job No.: 180-48309-1 Analy Batch No.: 151868

SDG No.:

Instrument ID: CHHP5 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/26/2015 15:04 Calibration End Date: 08/26/2015 17:52 Calibration ID: 25113

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Benzene	FB	Ave	55246 2000326	287091 2197241	580241 2707324	874781	1175215	5.00 175	25.0 200	50.0 250	75.0	100
1,2-Dichloroethane	FB	Ave	19231 709743	95482 788760	191991 987010	296218	399895	5.00 175	25.0 200	50.0 250	75.0	100
n-Heptane	FB	Ave	19899 819932	97699 859948	215218 1040377	319252	444901	5.00 175	25.0 200	50.0 250	75.0	100
Trichloroethene	FB	Ave	13948 506964	64418 556980	138404 693909	207852	285365	5.00 175	25.0 200	50.0 250	75.0	100
Methylcyclohexane	FB	Ave	17237 866758	97305 937977	222858 1114866	336831	484430	5.00 175	25.0 200	50.0 250	75.0	100
1,2-Dichloropropane	FB	Ave	15440 547361	67479 594824	144895 765352	218947	304322	5.00 175	25.0 200	50.0 250	75.0	100
1,4-Dioxane	FB	Ave	1429 82622	9374 91547	20164 111802	31691	44562	100 3500	500 4000	1000 5000	1500	2000
Dibromomethane	FB	Ave	7003 277699	37187 307857	74626 386058	114083	152946	5.00 175	25.0 200	50.0 250	75.0	100
Bromodichloromethane	FB	Ave	12926 576102	67441 644471	141423 812136	226806	310676	5.00 175	25.0 200	50.0 250	75.0	100
cis-1,3-Dichloropropene	FB	Ave	13234 714562	70847 812298	159644 1033255	264451	374197	5.00 175	25.0 200	50.0 250	75.0	100
4-Methyl-2-pentanone (MIBK)	CBZ	Ave	52387 1157588	122590 1320471	267134 1599371	434749	614019	25.0 350	50.0 400	100 500	150	200
Toluene	CBZ	Ave	53527 2050607	281285 2228576	594334 2681762	874948	1201786	5.00 175	25.0 200	50.0 250	75.0	100
trans-1,3-Dichloropropene	CBZ	Ave	10582 619485	61867 704918	136231 891401	224205	323125	5.00 175	25.0 200	50.0 250	75.0	100
Ethyl methacrylate	CBZ	Ave	9690 602921	57962 687101	132749 862044	225233	316812	5.00 175	25.0 200	50.0 250	75.0	100
1,1,2-Trichloroethane	CBZ	Ave	9469 403722	55277 441190	105440 557982	163298	224541	5.00 175	25.0 200	50.0 250	75.0	100
Tetrachloroethene	CBZ	Ave	10935 401915	53495 438898	111146 530215	165929	230665	5.00 175	25.0 200	50.0 250	75.0	100
1,3-Dichloropropane	CBZ	Ave	19141 743698	95569 840507	194887 1030200	303582	408560	5.00 175	25.0 200	50.0 250	75.0	100
2-Hexanone	CBZ	Ave	39604 820858	91984 943138	195734 1123041	310969	430988	25.0 350	50.0 400	100 500	150	200
Dibromochloromethane	CBZ	Ave	7357 377032	38492 427847	89414 542940	143257	202349	5.00 175	25.0 200	50.0 250	75.0	100
1,2-Dibromoethane (EDB)	CBZ	Ave	9378 390862	49971 449617	100600 553588	155041	212653	5.00 175	25.0 200	50.0 250	75.0	100
3-Chlorobenzotrifluoride	CBZ	Ave	18393 686777	87568 749898	189078 813323	277802	368187	5.00 175	25.0 200	50.0 250	75.0	100

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Pittsburgh Job No.: 180-48309-1 Analy Batch No.: 151868

SDG No.:

Instrument ID: CHHP5 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/26/2015 15:04 Calibration End Date: 08/26/2015 17:52 Calibration ID: 25113

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Chlorobenzene	CBZ	Ave	35900 1331912	177451 1491257	364174 1793475	551865	752971	5.00 175	25.0 200	50.0 250	75.0	100
4-Chlorobenzotrifluoride	CBZ	Ave	16914 642626	83430 709487	177807 781989	267607	350243	5.00 175	25.0 200	50.0 250	75.0	100
1,1,1,2-Tetrachloroethane	CBZ	Ave	10787 453483	55507 513686	112884 642159	179137	247335	5.00 175	25.0 200	50.0 250	75.0	100
Ethylbenzene	CBZ	Ave	15563 756322	88753 837593	199030 1001210	302122	417206	5.00 175	25.0 200	50.0 250	75.0	100
m-Xylene & p-Xylene	CBZ	Ave	18709 934055	107918 1021032	244588 1238884	371799	516778	5.00 175	25.0 200	50.0 250	75.0	100
o-Xylene	CBZ	Ave	17177 890574	99302 984811	235252 1203666	359461	488783	5.00 175	25.0 200	50.0 250	75.0	100
Styrene	CBZ	Ave	27953 1460286	173558 1627751	381888 1948876	603962	812783	5.00 175	25.0 200	50.0 250	75.0	100
Bromoform	CBZ	Ave	4507 217546	21829 254607	48771 317730	77411	109983	5.00 175	25.0 200	50.0 250	75.0	100
2-Chlorobenzotrifluoride	CBZ	Ave	17186 670799	88525 748529	184654 809757	279773	362334	5.00 175	25.0 200	50.0 250	75.0	100
Isopropylbenzene	CBZ	Ave	41948 2113845	258721 2317406	601591 2727755	886244	1229067	5.00 175	25.0 200	50.0 250	75.0	100
1,1,2,2-Tetrachloroethane	CBZ	Ave	14088 530728	70831 605346	148796 725938	217578	290248	5.00 175	25.0 200	50.0 250	75.0	100
Bromobenzene	DCB	Ave	12648 543146	66130 609774	144660 743219	218069	300450	5.00 175	25.0 200	50.0 250	75.0	100
trans-1,4-Dichloro-2-butene	DCB	Ave	4099 209384	22318 238659	49630 290130	78865	107372	5.00 175	25.0 200	50.0 250	75.0	100
1,2,3-Trichloropropane	DCB	Ave	4305 177490	23273 200908	46443 246872	70373	94129	5.00 175	25.0 200	50.0 250	75.0	100
N-Propylbenzene	DCB	Ave	12643 636587	74204 717909	174426 850210	256762	351814	5.00 175	25.0 200	50.0 250	75.0	100
2-Chlorotoluene	DCB	Ave	10430 529736	65813 608876	147328 726063	218909	301246	5.00 175	25.0 200	50.0 250	75.0	100
3-Chlorotoluene	DCB	Ave	11617 552058	68954 621607	151211 702342	225916	297767	5.00 175	25.0 200	50.0 250	75.0	100
1,3,5-Trimethylbenzene	DCB	Ave	33229 1760059	229921 1952122	517168 2264532	741712	1014826	5.00 175	25.0 200	50.0 250	75.0	100
4-Chlorotoluene	DCB	Ave	12133 582109	77519 649501	159410 778860	235437	324433	5.00 175	25.0 200	50.0 250	75.0	100
tert-Butylbenzene	DCB	Ave	26338 1486960	173217 1642231	406052 1938716	598804	836893	5.00 175	25.0 200	50.0 250	75.0	100
1,2,4-Trimethylbenzene	DCB	Ave	32428 1772230	227690 1973541	515539 2303042	753282	1013032	5.00 175	25.0 200	50.0 250	75.0	100

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Pittsburgh Job No.: 180-48309-1 Analy Batch No.: 151868

SDG No.:

Instrument ID: CHHP5 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/26/2015 15:04 Calibration End Date: 08/26/2015 17:52 Calibration ID: 25113

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
3,4-Dichlorobenzotrifluoride	DCB	Ave	13115 484133	61289 529814	140073 580120	196559	258438	5.00 175	25.0 200	50.0 250	75.0	100
sec-Butylbenzene	DCB	Ave	39041 2029430	258745 2244027	604638 2563359	839536	1168492	5.00 175	25.0 200	50.0 250	75.0	100
1,3-Dichlorobenzene	DCB	Ave	22108 937539	127273 1071203	273757 1263925	386149	523315	5.00 175	25.0 200	50.0 250	75.0	100
4-Isopropyltoluene	DCB	Ave	30909 1738859	215293 1944911	504672 2238219	724310	987448	5.00 175	25.0 200	50.0 250	75.0	100
1,4-Dichlorobenzene	DCB	Ave	25851 949324	133066 1084086	277292 1287906	396239	532103	5.00 175	25.0 200	50.0 250	75.0	100
2,4-Dichlorobenzotrifluoride	DCB	Ave	11477 453275	59316 483618	134729 531698	183967	235991	5.00 175	25.0 200	50.0 250	75.0	100
2,5-Dichlorobenzotrifluoride	DCB	Ave	12582 486163	61489 571654	138171 585601	196358	254571	5.00 175	25.0 200	50.0 250	75.0	100
n-Butylbenzene	DCB	Ave	27472 1504673	181007 1691227	432555 1909580	598297	841574	5.00 175	25.0 200	50.0 250	75.0	100
1,2-Dichlorobenzene	DCB	Ave	22973 849612	119403 988861	257985 1135542	354012	474503	5.00 175	25.0 200	50.0 250	75.0	100
1,2-Dibromo-3-Chloropropane	DCB	Ave	1507 75555	9637 91242	20608 105625	27203	39315	5.00 175	25.0 200	50.0 250	75.0	100
2,4- & 2,5- & 2,6- Dichlorotoluene	DCB	Ave	31847 1576122	187206 1875036	495585 1891413	616649	827426	15.0 525	75.0 600	150 750	225	300
2,3- & 3,4- Dichlorotoluene	DCB	Ave	19801 994231	120746 1204899	328345 1220209	378630	510138	10.0 350	50.0 400	100 500	150	200
1,2,4-Trichlorobenzene	DCB	Ave	7500 339446	45439 424061	119069 445017	127381	175776	5.00 175	25.0 200	50.0 250	75.0	100
Hexachlorobutadiene	DCB	Ave	3919 160392	23516 188644	58574 196056	62268	83392	5.00 175	25.0 200	50.0 250	75.0	100
Naphthalene	DCB	Ave	17192 934428	101055 1180622	301738 1235965	327683	463258	5.00 175	25.0 200	50.0 250	75.0	100
1,2,3-Trichlorobenzene	DCB	Ave	6907 261711	35802 333363	100055 351787	100749	137103	5.00 175	25.0 200	50.0 250	75.0	100
2,4,5-Trichlorotoluene	DCB	Ave	2382 100325	11540 135933	37716 136778	32434	45065	5.00 175	25.0 200	50.0 250	75.0	100
2,3,6-Trichlorotoluene	DCB	Ave	1485 +++++	10524 +++++	36592 +++++	30574	45128	5.00 +++++	25.0 +++++	50.0 +++++	75.0	100
Dibromofluoromethane (Surr)	FB	Ave	11752 399678	54310 438908	112824 562879	168602	230039	5.00 175	25.0 200	50.0 250	75.0	100
1,2-Dichloroethane-d4 (Surr)	FB	Ave	17051 544829	75876 597233	155346 751925	228530	306020	5.00 175	25.0 200	50.0 250	75.0	100
Toluene-d8 (Surr)	CBZ	Ave	43904 1580158	209810 1727014	471382 2103482	679876	918031	5.00 175	25.0 200	50.0 250	75.0	100

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Pittsburgh Job No.: 180-48309-1 Analy Batch No.: 151868

SDG No.:

Instrument ID: CHHP5 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/26/2015 15:04 Calibration End Date: 08/26/2015 17:52 Calibration ID: 25113

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
4-Bromofluorobenzene (Surr)	CBZ	Ave	15659 617045	76038 697446	171548 854277	257596	339508	5.00 175	25.0 200	50.0 250	75.0	100

Curve Type Legend:

Ave = Average ISTD
Lin2 = Linear 1/conc^2 ISTD

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: TestAmerica Pittsburgh Job No.: 180-48309-1 Analy Batch No.: 151868

SDG No.:

Instrument ID: CHHP5 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/26/2015 15:04 Calibration End Date: 08/26/2015 17:52 Calibration ID: 25113

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-151868/6	50826006.D
Level 2	IC 180-151868/8	50826008.D
Level 3	ICIS 180-151868/9	50826009.D
Level 4	IC 180-151868/10	50826010.D
Level 5	IC 180-151868/11	50826011.D
Level 6	IC 180-151868/12	50826012.D
Level 7	IC 180-151868/13	50826013.D
Level 8	IC 180-151868/14	50826014.D

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3	LVL 4	LVL 5	LVL 6
Methylene Chloride	-0.1 -3.0	3.1 13.7	-0.5	-3.3	-6.2	-3.8	40 40	40 40	40	40	40	40

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20150826-8300.b\50826006.D
Lims ID: IC VSTD1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 26-Aug-2015 15:04:30 ALS Bottle#: 6 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC VSTD1
Misc. Info.: 180-0008300-006
Operator ID: 001562 Instrument ID: CHHP5
Sublist: chrom-MSVOA_LL_CHHP5*sub4

Method: \\ChromNA\Pittsburgh\ChromData\CHHP5\20150826-8300.b\MSVOA_LL_CHHP5.m
Limit Group: VOA 8260C ICAL
Last Update: 27-Aug-2015 12:16:48 Calib Date: 26-Aug-2015 17:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20150826-8300.b\50826014.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK048

First Level Reviewer: fergusond Date: 27-Aug-2015 12:16:48

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.266	4.274	-0.008	0	136898	1000.0	1000.0	
* 2 Fluorobenzene (IS)	96	7.290	7.291	-0.001	98	405648	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.386	10.387	-0.001	88	96094	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.728	12.730	-0.002	97	140534	50.0	50.0	
$ 5 Dibromofluoromethane (Surr	113	6.566	6.567	-0.001	89	11752	5.00	5.90	
$ 6 1,2-Dichloroethane-d4 (Sur	65	6.937	6.938	-0.001	0	17051	5.00	6.23	
$ 7 Toluene-d8 (Surr)	98	8.938	8.933	0.005	95	43904	5.00	5.92	
$ 8 4-Bromofluorobenzene (Surr	95	11.572	11.574	-0.002	84	15659	5.00	5.60	
11 Dichlorodifluoromethane	85	1.608	1.627	-0.019	94	13335	5.00	5.82	
12 Chloromethane	50	1.760	1.761	-0.001	98	20806	5.00	6.18	
13 Vinyl chloride	62	1.906	1.901	0.005	72	16232	5.00	5.44	
14 Butadiene	39	1.930	1.931	-0.001	96	21253	5.00	6.03	
15 Bromomethane	94	2.228	2.236	-0.008	92	6860	5.00	5.65	
16 Chloroethane	64	2.386	2.376	0.010	96	11321	5.00	6.29	
17 Dichlorofluoromethane	67	2.660	2.661	-0.001	95	22499	5.00	5.89	
18 Trichlorofluoromethane	101	2.648	2.661	-0.013	71	16013	5.00	5.60	M
20 Ethyl ether	59	3.049	3.051	-0.002	97	17175	5.00	6.48	
21 Acrolein	56	3.220	3.233	-0.013	99	41531	100.0	105.2	
22 1,1-Dichloroethene	96	3.335	3.355	-0.020	78	11952	5.00	5.29	
23 1,1,2-Trichloro-1,2,2-trif	101	3.402	3.416	-0.014	66	13388	5.00	5.59	
24 Acetone	43	3.451	3.452	-0.001	99	25628	25.0	31.3	M
25 Iodomethane	142	3.536	3.556	-0.020	100	18992	5.00	5.64	
26 Carbon disulfide	76	3.627	3.635	-0.008	99	25807	5.00	4.92	
28 3-Chloro-1-propene	76	3.913	3.921	-0.008	88	5646	5.00	4.41	
30 Methyl acetate	43	3.938	3.945	-0.007	100	67684	25.0	27.7	
31 Methylene Chloride	84	4.126	4.152	-0.026	96	26437	5.00	4.99	
32 2-Methyl-2-propanol	59	4.406	4.413	-0.007	90	9257	50.0	60.1	
33 Acrylonitrile	53	4.515	4.517	-0.002	99	65631	50.0	55.3	
34 trans-1,2-Dichloroethene	96	4.558	4.566	-0.008	90	13723	5.00	5.59	
35 Methyl tert-butyl ether	73	4.576	4.584	-0.008	92	29774	5.00	5.24	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
36 Hexane	57	4.990	4.991	-0.001	93	22257	5.00	5.40	
37 1,1-Dichloroethane	63	5.203	5.198	0.005	96	27303	5.00	5.65	
38 Vinyl acetate	43	5.252	5.253	-0.001	98	18896	5.00	5.21	
45 cis-1,2-Dichloroethene	96	5.951	5.953	-0.002	85	14442	5.00	5.51	
44 2,2-Dichloropropane	77	5.939	5.946	-0.007	60	10315	5.00	5.33	
46 2-Butanone (MEK)	43	5.963	5.959	0.004	97	34471	25.0	28.0	
49 Chlorobromomethane	128	6.237	6.238	-0.001	92	6284	5.00	5.46	
51 Tetrahydrofuran	42	6.249	6.257	-0.008	93	12850	10.0	13.0	
52 Chloroform	83	6.389	6.385	0.005	74	24828	5.00	5.95	
53 1,1,1-Trichloroethane	97	6.535	6.549	-0.014	91	15850	5.00	5.13	
54 Cyclohexane	56	6.614	6.616	-0.002	96	25044	5.00	4.85	
56 Carbon tetrachloride	117	6.718	6.719	-0.001	94	13013	5.00	4.95	
55 1,1-Dichloropropene	75	6.724	6.731	-0.007	91	16668	5.00	4.88	
57 Isobutyl alcohol	41	6.918	6.926	-0.008	70	9663	125.0	125.1	
58 Benzene	78	6.943	6.944	-0.001	97	55246	5.00	5.52	
59 1,2-Dichloroethane	62	7.022	7.023	-0.001	95	19231	5.00	5.56	
62 n-Heptane	43	7.314	7.309	0.005	93	19899	5.00	5.32	
64 Trichloroethene	130	7.679	7.674	0.005	92	13948	5.00	5.70	
66 Methylcyclohexane	83	7.916	7.918	-0.002	93	17237	5.00	4.47	
67 1,2-Dichloropropane	63	7.947	7.954	-0.007	90	15440	5.00	5.88	
70 1,4-Dioxane	88	8.026	8.027	-0.001	42	1429	100.0	79.0	
68 Dibromomethane	93	8.026	8.039	-0.013	95	7003	5.00	5.26	
71 Dichlorobromomethane	83	8.232	8.234	-0.002	93	12926	5.00	4.90	
74 cis-1,3-Dichloropropene	75	8.664	8.678	-0.014	65	13234	5.00	4.29	
75 4-Methyl-2-pentanone (MIBK	43	8.823	8.830	-0.007	97	52387	25.0	22.1	
76 Toluene	91	9.005	9.006	-0.001	97	53527	5.00	5.63	
77 trans-1,3-Dichloropropene	75	9.248	9.250	-0.002	96	10582	5.00	4.26	
78 Ethyl methacrylate	69	9.315	9.311	0.004	94	9690	5.00	4.04	
79 1,1,2-Trichloroethane	97	9.449	9.444	0.005	93	9469	5.00	5.23	
80 Tetrachloroethene	164	9.522	9.517	0.005	93	10935	5.00	5.92	
81 1,3-Dichloropropane	76	9.607	9.603	0.004	99	19141	5.00	5.70	
82 2-Hexanone	43	9.662	9.657	0.005	97	39604	25.0	23.2	
84 Chlorodibromomethane	129	9.814	9.816	-0.002	89	7357	5.00	4.70	
85 Ethylene Dibromide	107	9.930	9.931	-0.001	99	9378	5.00	5.38	
86 3-Chlorobenzotrifluoride	180	10.392	10.387	0.005	56	18393	5.00	6.02	
87 Chlorobenzene	112	10.416	10.418	-0.002	94	35900	5.00	5.86	
88 4-Chlorobenzotrifluoride	180	10.477	10.479	-0.002	96	16914	5.00	5.85	
89 1,1,1,2-Tetrachloroethane	131	10.508	10.509	-0.001	87	10787	5.00	5.40	
90 Ethylbenzene	106	10.514	10.515	-0.001	98	15563	5.00	4.79	
91 m-Xylene & p-Xylene	106	10.648	10.649	-0.001	0	18709	5.00	4.70	
92 o-Xylene	106	11.025	11.026	-0.001	97	17177	5.00	4.54	
93 Styrene	104	11.049	11.051	-0.002	93	27953	5.00	4.46	
94 Bromoform	173	11.226	11.233	-0.007	96	4507	5.00	5.04	
96 2-Chlorobenzotrifluoride	180	11.305	11.294	0.011	92	17186	5.00	5.71	
97 Isopropylbenzene	105	11.396	11.397	-0.001	96	41948	5.00	4.53	
100 Bromobenzene	156	11.712	11.708	0.004	96	12648	5.00	5.24	
99 1,1,2,2-Tetrachloroethane	83	11.712	11.708	0.004	82	14088	5.00	5.77	
102 trans-1,4-Dichloro-2-buten	53	11.749	11.744	0.005	58	4099	5.00	4.70	
101 1,2,3-Trichloropropane	110	11.761	11.762	-0.001	85	4305	5.00	5.41	
103 N-Propylbenzene	120	11.810	11.811	-0.001	99	12643	5.00	4.58	
104 2-Chlorotoluene	126	11.895	11.902	-0.007	95	10430	5.00	4.44	
105 3-Chlorotoluene	126	11.968	11.963	0.005	96	11617	5.00	4.82	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
106 1,3,5-Trimethylbenzene	105	11.992	11.993	-0.001	95	33229	5.00	4.26	
107 4-Chlorotoluene	126	12.022	12.024	-0.002	98	12133	5.00	4.70	
108 tert-Butylbenzene	119	12.308	12.310	-0.002	96	26338	5.00	4.15	
110 1,2,4-Trimethylbenzene	105	12.369	12.371	-0.002	96	32428	5.00	4.15	
111 1,2-dichloro-4-(trifluorom	214	12.406	12.413	-0.007	95	13115	5.00	6.02	
112 sec-Butylbenzene	105	12.533	12.535	-0.002	96	39041	5.00	4.36	
113 1,3-Dichlorobenzene	146	12.655	12.650	0.005	94	22108	5.00	5.15	
114 4-Isopropyltoluene	119	12.692	12.687	0.005	94	30909	5.00	4.08	
115 1,4-Dichlorobenzene	146	12.752	12.754	-0.002	94	25851	5.00	5.79	
116 2,4-Dichloro-1-(triflourom	214	12.783	12.778	0.005	92	11477	5.00	5.68	
118 2,5-Dichlorobenzotrifluori	214	12.825	12.821	0.004	0	12582	5.00	5.77	
120 n-Butylbenzene	91	13.099	13.101	-0.002	98	27472	5.00	4.24	
121 1,2-Dichlorobenzene	146	13.111	13.113	-0.002	97	22973	5.00	5.72	
122 1,2-Dibromo-3-Chloropropan	75	13.920	13.904	0.016	1	1507	5.00	4.57	
123 2,4- & 2,5- & 2,6- Dichlor	125	14.048	14.044	0.004	0	31847	15.0	13.9	
125 2,3- & 3,4- Dichlorotoluen	125	14.462	14.463	-0.001	0	19801	10.0	9.06	
126 1,2,4-Trichlorobenzene	180	14.723	14.725	-0.002	94	7500	5.00	4.80	
127 Hexachlorobutadiene	225	14.876	14.871	0.005	90	3919	5.00	5.21	
128 Naphthalene	128	14.991	14.993	-0.002	96	17192	5.00	4.28	
129 1,2,3-Trichlorobenzene	180	15.216	15.218	-0.002	92	6907	5.00	5.46	
131 2,4,5-Trichlorotoluene	159	15.989	15.990	-0.001	0	2382	5.00	5.22	
130 2,3,6-Trichlorotoluene	159	16.092	16.094	-0.002	87	1485	5.00	3.53	
147 2,4-Dichlorotoluene	1		0.000				ND	ND	
149 3,4-Dichlorotoluene	1		0.000				ND	ND	
150 2,6-Dichlorotoluene	1		0.000				ND	ND	
148 2,3-Dichlorotoluene	1		0.000				ND	ND	
146 2,5-Dichlorotoluene	1		0.000				ND	ND	
S 133 Xylenes, Total	106				0		10.0	9.24	
S 134 1,2-Dichloroethene, Total	96				0		10.0	11.1	
S 135 1,3-Dichloropropene, Total	1				0		10.0	8.55	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

VOA8260VOAPRI_00139	Amount Added:	0.20	Units: uL	
voaWEE1stRest_00001	Amount Added:	0.20	Units: uL	
VOAVAPRI_00006	Amount Added:	0.20	Units: uL	
voaWKet1 Rest_00001	Amount Added:	0.80	Units: uL	
VOAACROLEINPR_00006	Amount Added:	4.00	Units: uL	
VOA8260SURR_00040	Amount Added:	0.20	Units: uL	
VOA8260INT_00040	Amount Added:	2.00	Units: uL	Run Reagent

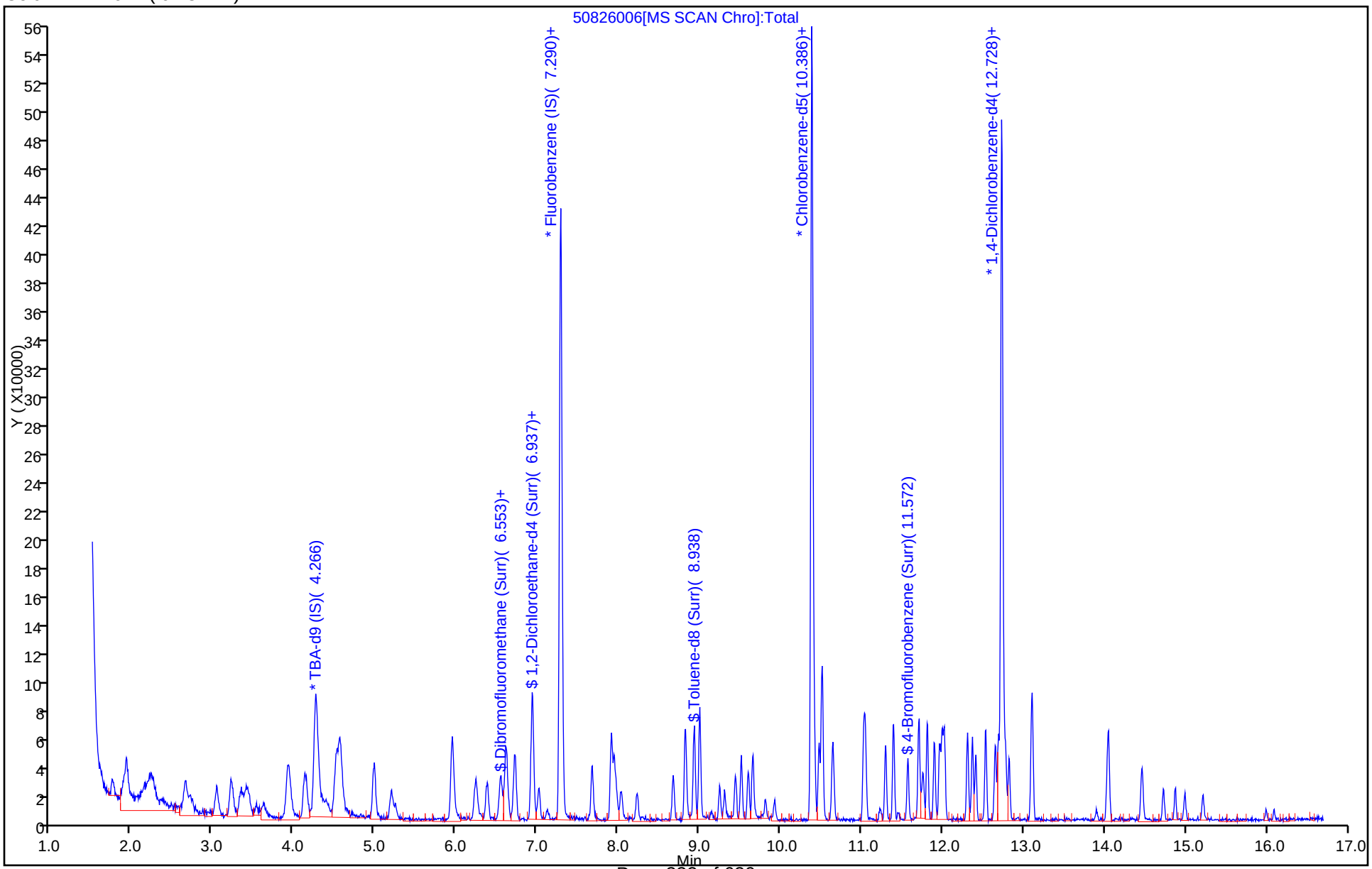
Report Date: 27-Aug-2015 12:16:53 Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20150826-8300.b\50826006.D

Injection Date:	26-Aug-2015 15:04:30	Instrument ID:	CHHP5	Operator ID:	001562
Lims ID:	IC VSTD1			Worklist Smp#:	6
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	MSVOA_LL_CHHP5	Limit Group:	VOA 8260C ICAL		

Column: DB-624 (0.18 mm)



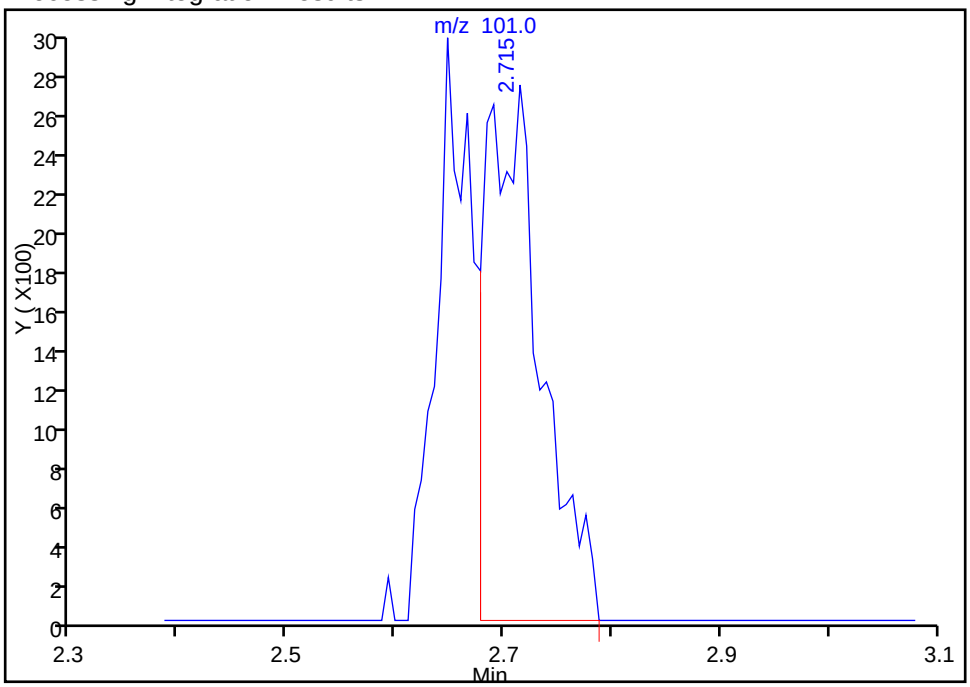
TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20150826-8300.b\50826006.D
Injection Date: 26-Aug-2015 15:04:30 Instrument ID: CHHP5
Lims ID: IC VSTD1
Client ID:
Operator ID: 001562 ALS Bottle#: 6 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP5 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

18 Trichlorofluoromethane, CAS: 75-69-4

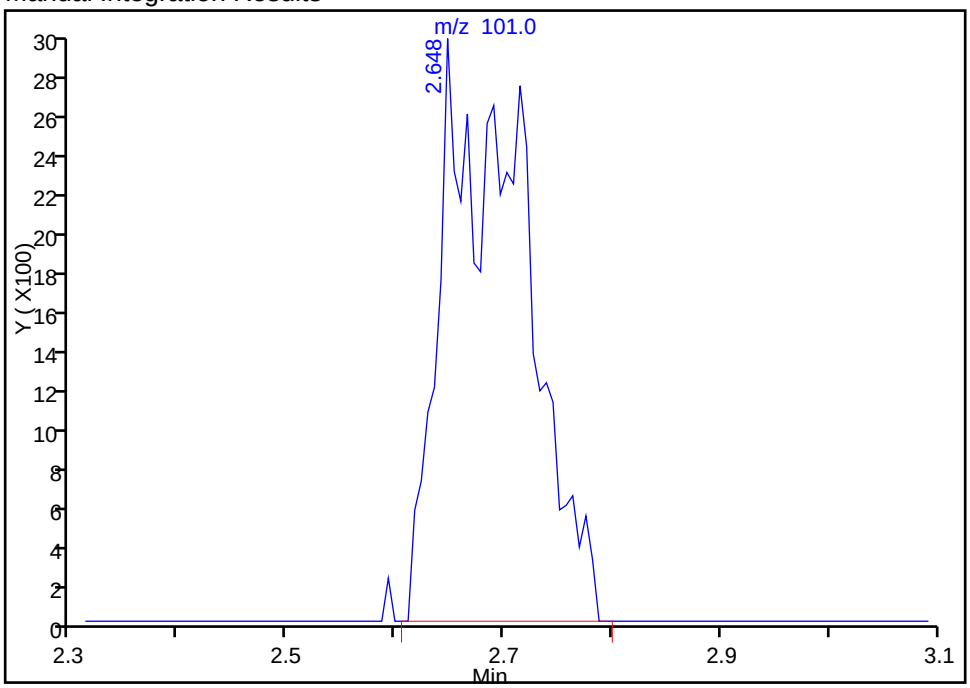
Processing Integration Results

RT: 2.71
Area: 9760
Amount: 4.111403
Amount Units: ng



Manual Integration Results

RT: 2.65
Area: 16013
Amount: 5.602773
Amount Units: ng



Reviewer: fergusond, 27-Aug-2015 10:07:27
Audit Action: Manually Integrated
Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

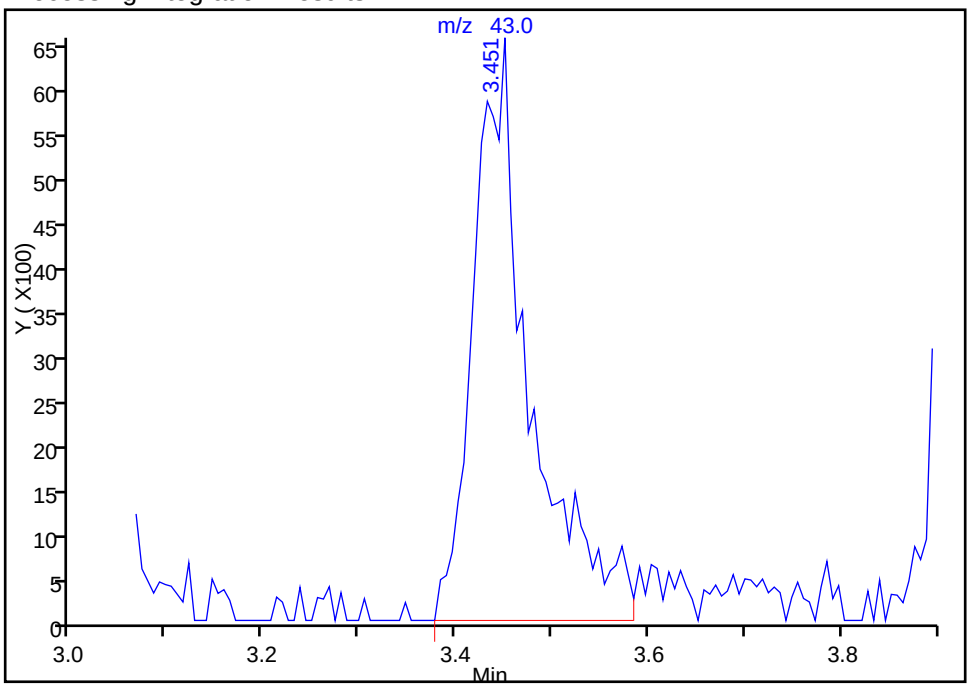
TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20150826-8300.b\50826006.D
Injection Date: 26-Aug-2015 15:04:30 Instrument ID: CHHP5
Lims ID: IC VSTD1
Client ID:
Operator ID: 001562 ALS Bottle#: 6 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP5 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

24 Acetone, CAS: 67-64-1

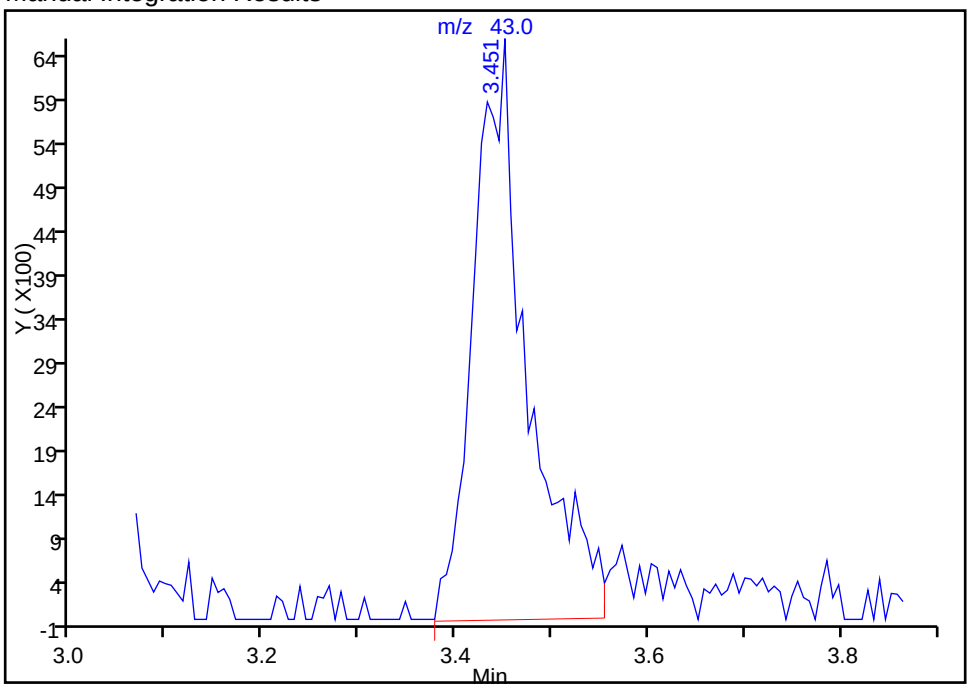
Processing Integration Results

RT: 3.45
Area: 26617
Amount: 32.323853
Amount Units: ng



Manual Integration Results

RT: 3.45
Area: 25628
Amount: 31.310834
Amount Units: ng



Reviewer: fergusond, 27-Aug-2015 10:07:27
Audit Action: Manually Integrated
Audit Reason: Peak Tail

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20150826-8300.b\50826008.D
Lims ID: IC VSTD5
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 26-Aug-2015 15:28:30 ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC VSTD5
Misc. Info.: 180-0008300-008
Operator ID: 001562 Instrument ID: CHHP5
Sublist: chrom-MSVOA_LL_CHHP5*sub4

Method: \\ChromNA\Pittsburgh\ChromData\CHHP5\20150826-8300.b\MSVOA_LL_CHHP5.m
Limit Group: VOA 8260C ICAL
Last Update: 27-Aug-2015 11:47:16 Calib Date: 26-Aug-2015 17:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20150826-8300.b\50826014.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK048

First Level Reviewer: fergusond Date: 27-Aug-2015 10:07:55

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.260	4.267	-0.007	0	150907	1000.0	1000.0	
* 2 Fluorobenzene (IS)	96	7.290	7.290	0.000	97	426232	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.386	10.387	-0.001	89	101235	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.728	12.729	-0.001	96	159073	50.0	50.0	
$ 5 Dibromofluoromethane (Surr	113	6.566	6.560	0.006	92	54310	25.0	25.9	
$ 6 1,2-Dichloroethane-d4 (Sur	65	6.931	6.931	0.000	0	75876	25.0	26.4	
$ 7 Toluene-d8 (Surr)	98	8.938	8.939	-0.001	95	209810	25.0	26.9	
$ 8 4-Bromofluorobenzene (Surr	95	11.572	11.573	-0.001	85	76038	25.0	25.8	
11 Dichlorodifluoromethane	85	1.608	1.614	-0.006	99	63359	25.0	26.3	
12 Chloromethane	50	1.760	1.766	-0.006	99	96975	25.0	27.4	
13 Vinyl chloride	62	1.893	1.894	-0.001	97	84746	25.0	27.0	
14 Butadiene	39	1.930	1.937	-0.007	97	101243	25.0	27.3	
15 Bromomethane	94	2.234	2.247	-0.013	88	33586	25.0	26.3	
16 Chloroethane	64	2.386	2.387	-0.001	99	50718	25.0	26.8	
17 Dichlorofluoromethane	67	2.660	2.661	-0.001	97	111107	25.0	27.7	
18 Trichlorofluoromethane	101	2.690	2.667	0.023	87	81291	25.0	27.1	
20 Ethyl ether	59	3.043	3.050	-0.007	93	70836	25.0	25.5	
21 Acrolein	56	3.226	3.232	-0.006	99	52087	125.0	125.6	
22 1,1-Dichloroethene	96	3.347	3.348	-0.001	93	60024	25.0	25.3	
23 1,1,2-Trichloro-1,2,2-trif	101	3.414	3.403	0.011	94	67283	25.0	26.7	
24 Acetone	43	3.451	3.445	0.006	100	51703	50.0	60.1	
25 Iodomethane	142	3.536	3.543	-0.007	98	89056	25.0	25.2	
26 Carbon disulfide	76	3.627	3.628	-0.001	100	126552	25.0	23.0	
28 3-Chloro-1-propene	76	3.913	3.920	-0.007	86	31974	25.0	23.8	
30 Methyl acetate	43	3.938	3.938	0.000	99	347746	125.0	135.3	
31 Methylene Chloride	84	4.144	4.139	0.005	97	79338	25.0	25.8	
32 2-Methyl-2-propanol	59	4.400	4.407	-0.007	87	39038	250.0	229.8	
33 Acrylonitrile	53	4.522	4.522	0.000	100	329204	250.0	264.0	
34 trans-1,2-Dichloroethene	96	4.564	4.565	-0.001	97	66301	25.0	25.7	
35 Methyl tert-butyl ether	73	4.576	4.577	-0.001	95	147150	25.0	24.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
36 Hexane	57	4.990	4.997	-0.007	95	109198	25.0	25.2	
37 1,1-Dichloroethane	63	5.203	5.204	-0.001	96	128072	25.0	25.2	
38 Vinyl acetate	43	5.252	5.252	0.000	97	92081	25.0	24.2	
45 cis-1,2-Dichloroethene	96	5.951	5.952	-0.001	86	69819	25.0	25.4	
44 2,2-Dichloropropane	77	5.945	5.952	-0.007	58	48880	25.0	24.0	
46 2-Butanone (MEK)	43	5.957	5.964	-0.007	66	68384	50.0	52.9	
49 Chlorobromomethane	128	6.237	6.238	-0.001	91	31931	25.0	26.4	
51 Tetrahydrofuran	42	6.255	6.250	0.005	91	51589	50.0	49.8	
52 Chloroform	83	6.377	6.384	-0.007	96	113670	25.0	25.9	
53 1,1,1-Trichloroethane	97	6.541	6.542	-0.001	95	81030	25.0	25.0	
54 Cyclohexane	56	6.614	6.615	-0.001	96	134937	25.0	24.9	
56 Carbon tetrachloride	117	6.712	6.718	-0.006	95	69375	25.0	25.1	
55 1,1-Dichloropropene	75	6.730	6.730	0.000	91	91438	25.0	25.5	
57 Isobutyl alcohol	41	6.925	6.925	-0.001	78	48239	625.0	594.3	
58 Benzene	78	6.943	6.943	0.000	98	287091	25.0	27.3	
59 1,2-Dichloroethane	62	7.022	7.022	0.000	96	95482	25.0	26.3	
62 n-Heptane	43	7.308	7.308	0.000	93	97699	25.0	24.9	
64 Trichloroethene	130	7.673	7.679	-0.006	96	64418	25.0	25.1	
66 Methylcyclohexane	83	7.916	7.917	-0.001	96	97305	25.0	24.0	
67 1,2-Dichloropropane	63	7.953	7.947	0.006	94	67479	25.0	24.5	
70 1,4-Dioxane	88	8.032	8.026	0.006	40	9374	500.0	493.0	
68 Dibromomethane	93	8.038	8.038	0.000	94	37187	25.0	26.6	
71 Dichlorobromomethane	83	8.232	8.233	-0.001	97	67441	25.0	24.4	
74 cis-1,3-Dichloropropene	75	8.677	8.677	0.000	88	70847	25.0	21.8	
75 4-Methyl-2-pentanone (MIBK	43	8.829	8.829	0.000	99	122590	50.0	49.1	
76 Toluene	91	9.005	9.006	-0.001	98	281285	25.0	28.1	
77 trans-1,3-Dichloropropene	75	9.248	9.249	-0.001	99	61867	25.0	23.7	
78 Ethyl methacrylate	69	9.309	9.310	-0.001	91	57962	25.0	22.9	
79 1,1,2-Trichloroethane	97	9.443	9.444	-0.001	94	55277	25.0	29.0	
80 Tetrachloroethene	164	9.516	9.517	-0.001	96	53495	25.0	27.5	
81 1,3-Dichloropropane	76	9.601	9.602	-0.001	98	95569	25.0	27.0	
82 2-Hexanone	43	9.656	9.657	-0.001	98	91984	50.0	51.1	
84 Chlorodibromomethane	129	9.814	9.815	-0.001	91	38492	25.0	23.3	
85 Ethylene Dibromide	107	9.930	9.930	0.000	95	49971	25.0	27.2	
86 3-Chlorobenzotrifluoride	180	10.386	10.387	-0.001	69	87568	25.0	27.2	
87 Chlorobenzene	112	10.416	10.417	-0.001	94	177451	25.0	27.5	
88 4-Chlorobenzotrifluoride	180	10.477	10.478	-0.001	96	83430	25.0	27.4	
89 1,1,1,2-Tetrachloroethane	131	10.508	10.508	0.000	89	55507	25.0	26.4	
90 Ethylbenzene	106	10.514	10.514	0.000	99	88753	25.0	25.9	
91 m-Xylene & p-Xylene	106	10.648	10.648	0.000	0	107918	25.0	25.7	
92 o-Xylene	106	11.031	11.025	0.006	98	99302	25.0	24.9	
93 Styrene	104	11.049	11.050	-0.001	94	173558	25.0	26.3	
94 Bromoform	173	11.232	11.232	0.000	95	21829	25.0	23.2	
96 2-Chlorobenzotrifluoride	180	11.299	11.299	0.000	97	88525	25.0	27.9	
97 Isopropylbenzene	105	11.396	11.396	0.000	97	258721	25.0	26.5	
100 Bromobenzene	156	11.712	11.707	0.005	96	66130	25.0	24.2	
99 1,1,2,2-Tetrachloroethane	83	11.706	11.707	-0.001	78	70831	25.0	27.5	
102 trans-1,4-Dichloro-2-buten	53	11.743	11.743	0.000	69	22318	25.0	22.6	
101 1,2,3-Trichloropropane	110	11.761	11.762	-0.001	87	23273	25.0	25.8	
103 N-Propylbenzene	120	11.810	11.810	0.000	99	74204	25.0	23.7	
104 2-Chlorotoluene	126	11.895	11.901	-0.006	95	65813	25.0	24.8	
105 3-Chlorotoluene	126	11.962	11.968	-0.006	95	68954	25.0	25.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
106 1,3,5-Trimethylbenzene	105	11.992	11.993	-0.001	95	229921	25.0	26.0	
107 4-Chlorotoluene	126	12.022	12.023	-0.001	98	77519	25.0	26.5	
108 tert-Butylbenzene	119	12.308	12.309	-0.001	95	173217	25.0	24.1	
110 1,2,4-Trimethylbenzene	105	12.369	12.370	-0.001	98	227690	25.0	25.7	
111 1,2-dichloro-4-(trifluorom	214	12.412	12.412	0.000	98	61289	25.0	24.8	
112 sec-Butylbenzene	105	12.533	12.534	-0.001	95	258745	25.0	25.5	
113 1,3-Dichlorobenzene	146	12.649	12.650	-0.001	96	127273	25.0	26.2	
114 4-Isopropyltoluene	119	12.692	12.692	0.000	97	215293	25.0	25.1	
115 1,4-Dichlorobenzene	146	12.752	12.753	-0.001	95	133066	25.0	26.3	
116 2,4-Dichloro-1-(triflourom	214	12.777	12.777	0.000	93	59316	25.0	25.9	
118 2,5-Dichlorobenzotrifluori	214	12.819	12.820	-0.001	0	61489	25.0	24.9	
120 n-Butylbenzene	91	13.099	13.100	-0.001	98	181007	25.0	24.7	
121 1,2-Dichlorobenzene	146	13.111	13.112	-0.001	95	119403	25.0	26.3	
122 1,2-Dibromo-3-Chloropropan	75	13.902	13.897	0.005	70	9637	25.0	25.8	
123 2,4- & 2,5- & 2,6- Dichlor	125	14.042	14.049	-0.007	0	187206	75.0	72.1	
125 2,3- & 3,4- Dichlorotoluen	125	14.462	14.463	-0.001	0	120746	50.0	48.8	
126 1,2,4-Trichlorobenzene	180	14.730	14.724	0.006	92	45439	25.0	25.7	
127 Hexachlorobutadiene	225	14.870	14.870	0.000	95	23516	25.0	27.6	
128 Naphthalene	128	14.991	14.992	-0.001	98	101055	25.0	22.2	
129 1,2,3-Trichlorobenzene	180	15.210	15.217	-0.007	93	35802	25.0	25.0	
131 2,4,5-Trichlorotoluene	159	15.995	15.990	0.005	0	11540	25.0	22.3	
130 2,3,6-Trichlorotoluene	159	16.092	16.093	-0.001	92	10524	25.0	22.1	
148 2,3-Dichlorotoluene	1		0.000				ND	ND	
147 2,4-Dichlorotoluene	1		0.000				ND	ND	
146 2,5-Dichlorotoluene	1		0.000				ND	ND	
150 2,6-Dichlorotoluene	1		0.000				ND	ND	
149 3,4-Dichlorotoluene	1		0.000				ND	ND	
S 133 Xylenes, Total	106				0		50.0	50.6	
S 134 1,2-Dichloroethene, Total	96				0		50.0	51.1	
S 135 1,3-Dichloropropene, Total	1				0		50.0	45.5	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

VOA8260SURR_00040	Amount Added:	1.00	Units: uL	
VOA8260VOAPRI_00139	Amount Added:	1.00	Units: uL	
voaWEE1stRest_00001	Amount Added:	1.00	Units: uL	
voaWKet1 Rest_00001	Amount Added:	1.00	Units: uL	
VOAACROLEINPR_00006	Amount Added:	5.00	Units: uL	
VOAVAPRI_00006	Amount Added:	1.00	Units: uL	
VOA8260INT_00040	Amount Added:	2.00	Units: uL	Run Reagent

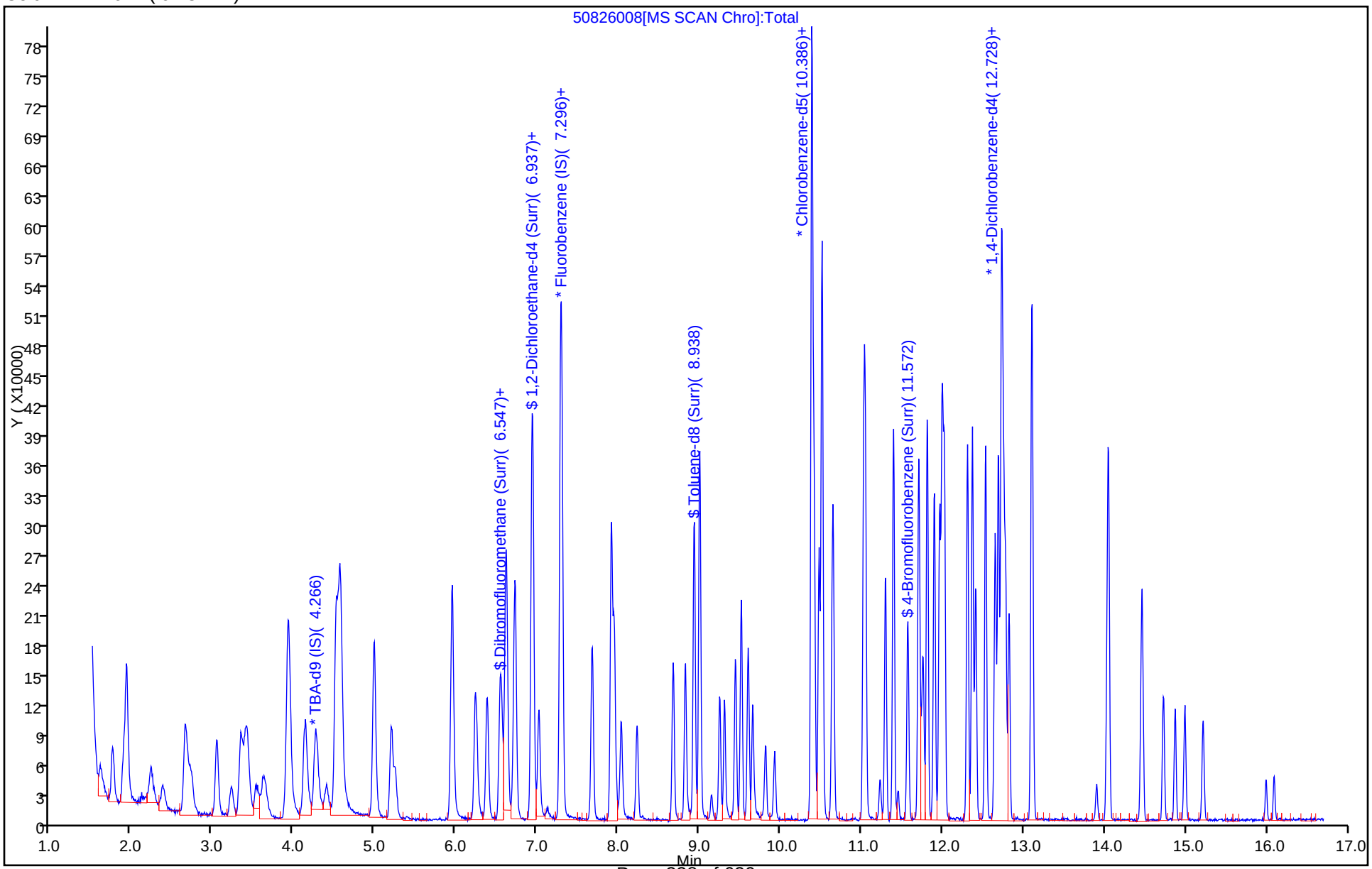
Report Date: 27-Aug-2015 11:47:19 Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20150826-8300.b\50826008.D

Injection Date:	26-Aug-2015 15:28:30	Instrument ID:	CHHP5	Operator ID:	001562
Lims ID:	IC VSTD5			Worklist Smp#:	8
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	MSVOA_LL_CHHP5	Limit Group:	VOA 8260C ICAL		

Column: DB-624 (0.18 mm)



TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20150826-8300.b\50826009.D
Lims ID: ICIS VSTD10
Client ID:
Sample Type: ICIS Calib Level: 3
Inject. Date: 26-Aug-2015 15:52:30 ALS Bottle#: 8 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: ICIS VSTD10
Misc. Info.: 180-0008300-009
Operator ID: 001562 Instrument ID: CHHP5
Sublist: chrom-MSVOA_LL_CHHP5*sub4

Method: \\ChromNA\Pittsburgh\ChromData\CHHP5\20150826-8300.b\MSVOA_LL_CHHP5.m
Limit Group: VOA 8260C ICAL
Last Update: 27-Aug-2015 12:15:57 Calib Date: 26-Aug-2015 17:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20150826-8300.b\50826014.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK048

First Level Reviewer: fergusond Date: 27-Aug-2015 08:52:40

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.274	4.274	0.000	0	157569	1000.0	1000.0	
* 2 Fluorobenzene (IS)	96	7.291	7.291	0.000	98	461146	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.387	10.387	0.000	88	108412	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.730	12.730	0.000	96	172635	50.0	50.0	
$ 5 Dibromofluoromethane (Surr	113	6.567	6.567	0.000	94	112824	50.0	49.8	
$ 6 1,2-Dichloroethane-d4 (Sur	65	6.938	6.938	0.000	0	155346	50.0	49.9	
$ 7 Toluene-d8 (Surr)	98	8.933	8.933	0.000	94	471382	50.0	56.4	
$ 8 4-Bromofluorobenzene (Surr	95	11.574	11.574	0.000	86	171548	50.0	54.4	
11 Dichlorodifluoromethane	85	1.627	1.627	0.000	99	139988	50.0	53.7	
12 Chloromethane	50	1.761	1.761	0.000	100	189967	50.0	49.7	
13 Vinyl chloride	62	1.901	1.901	0.000	97	181809	50.0	53.6	
14 Butadiene	39	1.931	1.931	0.000	97	213171	50.0	53.2	
15 Bromomethane	94	2.236	2.236	0.000	92	58568	50.0	42.4	
16 Chloroethane	64	2.376	2.376	0.000	99	99329	50.0	48.5	
17 Dichlorofluoromethane	67	2.661	2.661	0.000	97	232009	50.0	53.4	
18 Trichlorofluoromethane	101	2.661	2.661	0.000	43	174036	50.0	53.6	
20 Ethyl ether	59	3.051	3.051	0.000	97	145899	50.0	48.5	
21 Acrolein	56	3.233	3.233	0.000	98	66358	150.0	147.9	
22 1,1-Dichloroethene	96	3.355	3.355	0.000	95	132602	50.0	51.6	
23 1,1,2-Trichloro-1,2,2-trif	101	3.416	3.416	0.000	94	141996	50.0	52.2	
24 Acetone	43	3.452	3.452	0.000	99	88342	100.0	94.9	
25 Iodomethane	142	3.556	3.556	0.000	98	190440	50.0	49.8	
26 Carbon disulfide	76	3.635	3.635	0.000	100	288788	50.0	48.4	
28 3-Chloro-1-propene	76	3.921	3.921	0.000	88	70192	50.0	48.3	
30 Methyl acetate	43	3.945	3.945	0.000	99	664608	250.0	239.0	
31 Methylene Chloride	84	4.152	4.152	0.000	97	150258	50.0	49.8	
32 2-Methyl-2-propanol	59	4.413	4.413	0.000	87	81932	500.0	462.0	
33 Acrylonitrile	53	4.517	4.517	0.000	99	693478	500.0	514.1	
34 trans-1,2-Dichloroethene	96	4.566	4.566	0.000	96	141577	50.0	50.8	
35 Methyl tert-butyl ether	73	4.584	4.584	0.000	95	302403	50.0	46.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
36 Hexane	57	4.991	4.991	0.000	95	237492	50.0	50.7	
37 1,1-Dichloroethane	63	5.198	5.198	0.000	96	273423	50.0	49.8	
38 Vinyl acetate	43	5.253	5.253	0.000	97	191017	50.0	46.3	
45 cis-1,2-Dichloroethene	96	5.953	5.953	0.000	86	146208	50.0	49.1	
44 2,2-Dichloropropane	77	5.946	5.946	0.000	60	109416	50.0	49.7	
46 2-Butanone (MEK)	43	5.959	5.959	0.000	73	136667	100.0	97.8	
49 Chlorobromomethane	128	6.238	6.238	0.000	91	62915	50.0	48.1	
51 Tetrahydrofuran	42	6.257	6.257	0.000	94	107444	100.0	95.8	
52 Chloroform	83	6.385	6.385	0.000	96	232542	50.0	49.0	
53 1,1,1-Trichloroethane	97	6.549	6.549	0.000	96	178131	50.0	50.8	
54 Cyclohexane	56	6.616	6.616	0.000	96	302702	50.0	51.5	
56 Carbon tetrachloride	117	6.719	6.719	0.000	95	148991	50.0	49.9	
55 1,1-Dichloropropene	75	6.731	6.731	0.000	91	198075	50.0	51.0	
57 Isobutyl alcohol	41	6.926	6.926	0.000	79	113924	1250.0	1297.3	
58 Benzene	78	6.944	6.944	0.000	98	580241	50.0	51.0	
59 1,2-Dichloroethane	62	7.023	7.023	0.000	96	191991	50.0	48.8	
62 n-Heptane	43	7.309	7.309	0.000	96	215218	50.0	50.6	
64 Trichloroethene	130	7.674	7.674	0.000	97	138404	50.0	49.8	
66 Methylcyclohexane	83	7.918	7.918	0.000	96	222858	50.0	50.8	
67 1,2-Dichloropropane	63	7.954	7.954	0.000	95	144895	50.0	48.6	
70 1,4-Dioxane	88	8.027	8.027	0.000	48	20164	1000.0	980.3	
68 Dibromomethane	93	8.039	8.039	0.000	96	74626	50.0	49.3	
71 Dichlorobromomethane	83	8.234	8.234	0.000	98	141423	50.0	47.2	
74 cis-1,3-Dichloropropene	75	8.678	8.678	0.000	90	159644	50.0	45.5	
75 4-Methyl-2-pentanone (MIBK	43	8.830	8.830	0.000	99	267134	100.0	100.0	
76 Toluene	91	9.006	9.006	0.000	98	594334	50.0	55.4	
77 trans-1,3-Dichloropropene	75	9.250	9.250	0.000	98	136231	50.0	48.6	
78 Ethyl methacrylate	69	9.311	9.311	0.000	94	132749	50.0	49.0	
79 1,1,2-Trichloroethane	97	9.444	9.444	0.000	94	105440	50.0	51.6	
80 Tetrachloroethene	164	9.517	9.517	0.000	95	111146	50.0	53.3	
81 1,3-Dichloropropane	76	9.603	9.603	0.000	98	194887	50.0	51.4	
82 2-Hexanone	43	9.657	9.657	0.000	99	195734	100.0	101.5	
84 Chlorodibromomethane	129	9.816	9.816	0.000	89	89414	50.0	50.6	
85 Ethylene Dibromide	107	9.931	9.931	0.000	100	100600	50.0	51.1	
86 3-Chlorobenzotrifluoride	180	10.387	10.387	0.000	86	189078	50.0	54.8	
87 Chlorobenzene	112	10.418	10.418	0.000	93	364174	50.0	52.7	
88 4-Chlorobenzotrifluoride	180	10.479	10.479	0.000	96	177807	50.0	54.5	
89 1,1,1,2-Tetrachloroethane	131	10.509	10.509	0.000	91	112884	50.0	50.1	
90 Ethylbenzene	106	10.515	10.515	0.000	99	199030	50.0	54.3	
91 m-Xylene & p-Xylene	106	10.649	10.649	0.000	0	244588	50.0	54.5	
92 o-Xylene	106	11.026	11.026	0.000	97	235252	50.0	55.1	
93 Styrene	104	11.051	11.051	0.000	95	381888	50.0	54.0	
94 Bromoform	173	11.233	11.233	0.000	96	48771	50.0	48.4	
96 2-Chlorobenzotrifluoride	180	11.294	11.294	0.000	96	184654	50.0	54.4	
97 Isopropylbenzene	105	11.397	11.397	0.000	97	601591	50.0	57.5	
100 Bromobenzene	156	11.708	11.708	0.000	94	144660	50.0	48.8	
99 1,1,2,2-Tetrachloroethane	83	11.708	11.708	0.000	77	148796	50.0	54.0	
102 trans-1,4-Dichloro-2-buten	53	11.744	11.744	0.000	79	49630	50.0	46.3	
101 1,2,3-Trichloropropane	110	11.762	11.762	0.000	88	46443	50.0	47.5	
103 N-Propylbenzene	120	11.811	11.811	0.000	99	174426	50.0	51.4	
104 2-Chlorotoluene	126	11.902	11.902	0.000	96	147328	50.0	51.1	
105 3-Chlorotoluene	126	11.963	11.963	0.000	96	151211	50.0	51.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
106 1,3,5-Trimethylbenzene	105	11.993	11.993	0.000	95	517168	50.0	54.0	
107 4-Chlorotoluene	126	12.024	12.024	0.000	98	159410	50.0	50.2	
108 tert-Butylbenzene	119	12.310	12.310	0.000	95	406052	50.0	52.1	
110 1,2,4-Trimethylbenzene	105	12.371	12.371	0.000	98	515539	50.0	53.7	
111 1,2-dichloro-4-(trifluorom	214	12.413	12.413	0.000	98	140073	50.0	52.3	
112 sec-Butylbenzene	105	12.535	12.535	0.000	95	604638	50.0	55.0	
113 1,3-Dichlorobenzene	146	12.650	12.650	0.000	98	273757	50.0	51.9	
114 4-Isopropyltoluene	119	12.687	12.687	0.000	97	504672	50.0	54.2	
115 1,4-Dichlorobenzene	146	12.754	12.754	0.000	93	277292	50.0	50.5	
116 2,4-Dichloro-1-(triflourom	214	12.778	12.778	0.000	96	134729	50.0	54.3	
118 2,5-Dichlorobenzotrifluori	214	12.821	12.821	0.000	0	138171	50.0	51.5	
120 n-Butylbenzene	91	13.101	13.101	0.000	98	432555	50.0	54.3	
121 1,2-Dichlorobenzene	146	13.113	13.113	0.000	95	257985	50.0	52.3	
122 1,2-Dibromo-3-Chloropropan	75	13.904	13.904	0.000	76	20608	50.0	50.9	
123 2,4- & 2,5- & 2,6- Dichlor	125	14.044	14.044	0.000	0	495585	150.0	176.0	
125 2,3- & 3,4- Dichlorotoluen	125	14.463	14.463	0.000	0	328345	100.0	122.3	
126 1,2,4-Trichlorobenzene	180	14.725	14.725	0.000	93	119069	50.0	62.1	
127 Hexachlorobutadiene	225	14.871	14.871	0.000	97	58574	50.0	63.4	
128 Naphthalene	128	14.993	14.993	0.000	97	301738	50.0	61.2	
129 1,2,3-Trichlorobenzene	180	15.218	15.218	0.000	95	100055	50.0	64.4	
131 2,4,5-Trichlorotoluene	159	15.990	15.990	0.000	0	37716	50.0	67.3	
130 2,3,6-Trichlorotoluene	159	16.094	16.094	0.000	94	36592	50.0	70.8	
148 2,3-Dichlorotoluene	1		0.000				ND	ND	
147 2,4-Dichlorotoluene	1		0.000				ND	ND	
146 2,5-Dichlorotoluene	1		0.000				ND	ND	
150 2,6-Dichlorotoluene	1		0.000				ND	ND	
149 3,4-Dichlorotoluene	1		0.000				ND	ND	
S 133 Xylenes, Total	106				0		100.0	109.6	
S 134 1,2-Dichloroethene, Total	96				0		100.0	99.8	
S 135 1,3-Dichloropropene, Total	1				0		100.0	94.1	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

VOAACROLEINPR_00006	Amount Added:	6.00	Units: uL		
VOAVAPRI_00006	Amount Added:	2.00	Units: uL		
VOA8260SURR_00040	Amount Added:	2.00	Units: uL		
VOA8260VOAPRI_00139	Amount Added:	2.00	Units: uL		
voaWEE1stRest_00001	Amount Added:	2.00	Units: uL		
voaWKet1 Rest_00001	Amount Added:	2.00	Units: uL		
VOA8260INT_00040	Amount Added:	2.00	Units: uL	Run Reagent	

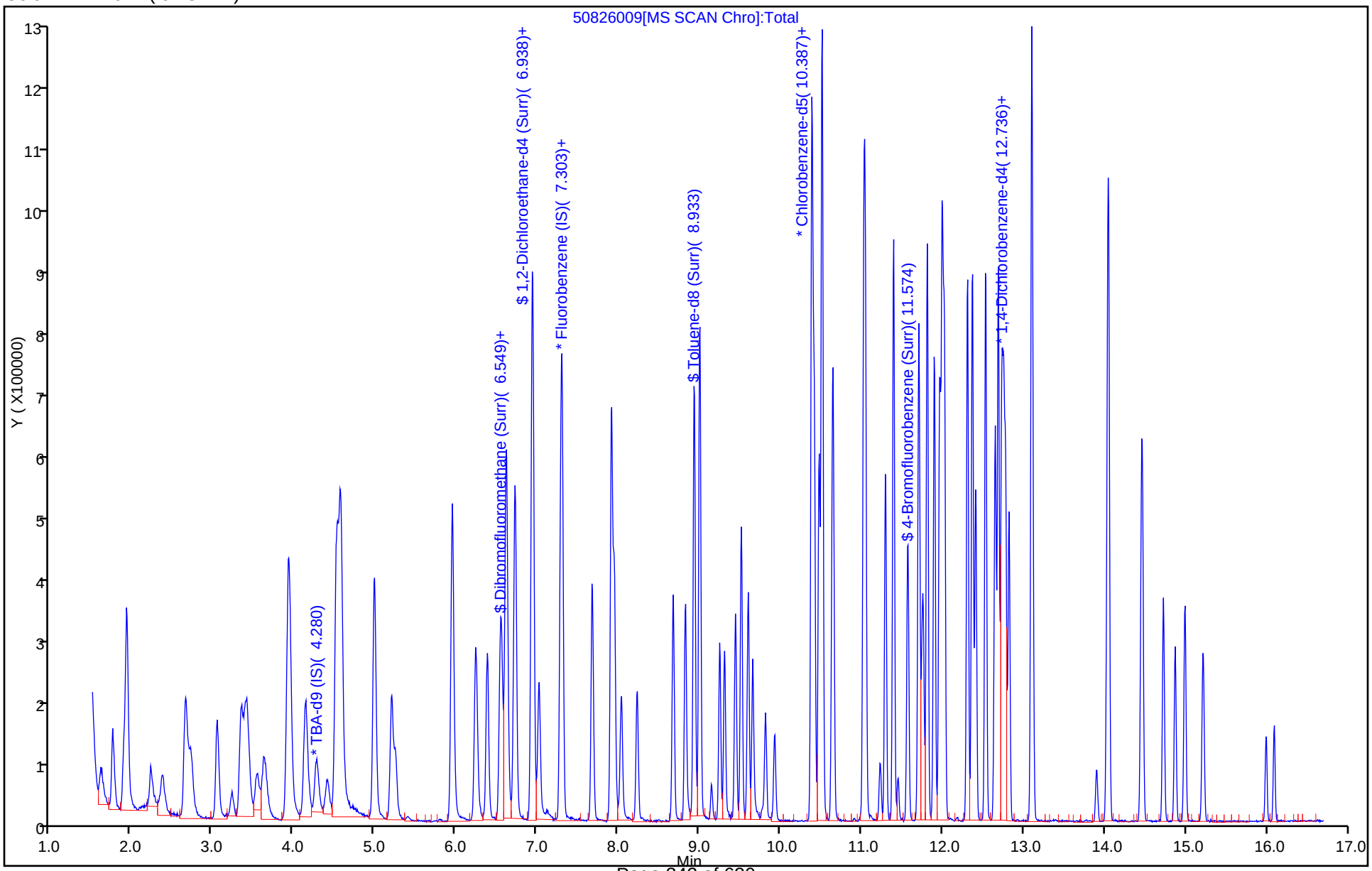
Report Date: 27-Aug-2015 12:16:00 Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20150826-8300.b\50826009.D

Injection Date:	26-Aug-2015 15:52:30	Instrument ID:	CHHP5	Operator ID:	001562
Lims ID:	ICIS VSTD10			Worklist Smp#:	9
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	MSVOA_LL_CHHP5	Limit Group:	VOA 8260C ICAL		

Column: DB-624 (0.18 mm)



TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20150826-8300.b\50826010.D
Lims ID: IC VSTD15
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 26-Aug-2015 16:16:30 ALS Bottle#: 9 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC VSTD15
Misc. Info.: 180-0008300-010
Operator ID: 001562 Instrument ID: CHHP5
Sublist: chrom-MSVOA_LL_CHHP5*sub4

Method: \\ChromNA\Pittsburgh\ChromData\CHHP5\20150826-8300.b\MSVOA_LL_CHHP5.m
Limit Group: VOA 8260C ICAL
Last Update: 27-Aug-2015 11:49:37 Calib Date: 26-Aug-2015 17:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20150826-8300.b\50826014.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK048

First Level Reviewer: fergusond Date: 27-Aug-2015 10:26:59

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.267	4.267	0.000	0	149384	1000.0	1000.0	
* 2 Fluorobenzene (IS)	96	7.290	7.290	0.000	98	491519	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.387	10.387	0.000	87	118747	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.729	12.729	0.000	96	175441	50.0	50.0	
$ 5 Dibromofluoromethane (Surr	113	6.560	6.560	0.000	93	168602	75.0	69.8	
$ 6 1,2-Dichloroethane-d4 (Sur	65	6.931	6.931	0.000	0	228530	75.0	68.9	
$ 7 Toluene-d8 (Surr)	98	8.939	8.939	0.000	95	679876	75.0	74.2	
$ 8 4-Bromofluorobenzene (Surr	95	11.573	11.573	0.000	87	257596	75.0	74.5	
11 Dichlorodifluoromethane	85	1.614	1.614	0.000	99	195493	75.0	70.4	
12 Chloromethane	50	1.766	1.766	0.000	99	279657	75.0	68.6	
13 Vinyl chloride	62	1.894	1.894	0.000	98	253941	75.0	70.2	
14 Butadiene	39	1.937	1.937	0.000	95	291582	75.0	68.3	
15 Bromomethane	94	2.247	2.247	0.000	90	118541	75.0	80.5	
16 Chloroethane	64	2.387	2.387	0.000	99	155578	75.0	71.3	
17 Dichlorofluoromethane	67	2.661	2.661	0.000	99	318608	75.0	68.8	
18 Trichlorofluoromethane	101	2.667	2.667	0.000	59	241309	75.0	69.7	
20 Ethyl ether	59	3.050	3.050	0.000	98	219194	75.0	68.3	
21 Acrolein	56	3.232	3.232	0.000	99	75936	175.0	158.8	
22 1,1-Dichloroethene	96	3.348	3.348	0.000	94	192998	75.0	70.5	
23 1,1,2-Trichloro-1,2,2-trif	101	3.403	3.403	0.000	94	204297	75.0	70.4	
24 Acetone	43	3.445	3.445	0.000	98	125942	150.0	127.0	
25 Iodomethane	142	3.543	3.543	0.000	99	284793	75.0	69.8	
26 Carbon disulfide	76	3.628	3.628	0.000	100	436105	75.0	68.6	
28 3-Chloro-1-propene	76	3.920	3.920	0.000	88	108440	75.0	69.9	
30 Methyl acetate	43	3.938	3.938	0.000	99	1027560	375.0	346.7	
31 Methylene Chloride	84	4.139	4.139	0.000	97	225319	75.0	72.5	
32 2-Methyl-2-propanol	59	4.407	4.407	0.000	87	122262	750.0	727.2	
33 Acrylonitrile	53	4.522	4.522	0.000	98	978697	750.0	680.6	
34 trans-1,2-Dichloroethene	96	4.565	4.565	0.000	95	204201	75.0	68.7	
35 Methyl tert-butyl ether	73	4.577	4.577	0.000	96	477236	75.0	69.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
36 Hexane	57	4.997	4.997	0.000	96	347025	75.0	69.5	
37 1,1-Dichloroethane	63	5.204	5.204	0.000	97	407919	75.0	69.7	
38 Vinyl acetate	43	5.252	5.252	0.000	97	303320	75.0	69.0	
45 cis-1,2-Dichloroethene	96	5.952	5.952	0.000	84	223289	75.0	70.3	
44 2,2-Dichloropropane	77	5.952	5.952	0.000	58	164171	75.0	70.0	
46 2-Butanone (MEK)	43	5.964	5.964	0.000	78	210830	150.0	141.5	
49 Chlorobromomethane	128	6.238	6.238	0.000	92	99282	75.0	71.2	
51 Tetrahydrofuran	42	6.250	6.250	0.000	91	153971	150.0	128.8	
52 Chloroform	83	6.384	6.384	0.000	97	359318	75.0	71.0	
53 1,1,1-Trichloroethane	97	6.542	6.542	0.000	96	264507	75.0	70.7	
54 Cyclohexane	56	6.615	6.615	0.000	97	451893	75.0	72.2	
56 Carbon tetrachloride	117	6.718	6.718	0.000	96	226405	75.0	71.1	
55 1,1-Dichloropropene	75	6.730	6.730	0.000	92	295676	75.0	71.5	
57 Isobutyl alcohol	41	6.925	6.925	0.000	92	149085	1875.0	1592.8	
58 Benzene	78	6.943	6.943	0.000	98	874781	75.0	72.2	
59 1,2-Dichloroethane	62	7.022	7.022	0.000	97	296218	75.0	70.7	
62 n-Heptane	43	7.308	7.308	0.000	96	319252	75.0	70.4	
64 Trichloroethene	130	7.679	7.679	0.000	97	207852	75.0	70.1	
66 Methylcyclohexane	83	7.917	7.917	0.000	96	336831	75.0	72.1	
67 1,2-Dichloropropane	63	7.947	7.947	0.000	94	218947	75.0	68.8	
70 1,4-Dioxane	88	8.026	8.026	0.000	39	31691	1500.0	1445.4	
68 Dibromomethane	93	8.038	8.038	0.000	96	114083	75.0	70.7	
71 Dichlorobromomethane	83	8.233	8.233	0.000	98	226806	75.0	71.0	
74 cis-1,3-Dichloropropene	75	8.677	8.677	0.000	91	264451	75.0	70.7	
75 4-Methyl-2-pentanone (MIBK	43	8.829	8.829	0.000	99	434749	150.0	148.6	
76 Toluene	91	9.006	9.006	0.000	98	874948	75.0	74.4	
77 trans-1,3-Dichloropropene	75	9.249	9.249	0.000	99	224205	75.0	73.1	
78 Ethyl methacrylate	69	9.310	9.310	0.000	93	225233	75.0	75.9	
79 1,1,2-Trichloroethane	97	9.444	9.444	0.000	94	163298	75.0	73.0	
80 Tetrachloroethene	164	9.517	9.517	0.000	95	165929	75.0	72.7	
81 1,3-Dichloropropane	76	9.602	9.602	0.000	98	303582	75.0	73.1	
82 2-Hexanone	43	9.657	9.657	0.000	99	310969	150.0	147.2	
84 Chlorodibromomethane	129	9.815	9.815	0.000	91	143257	75.0	74.0	
85 Ethylene Dibromide	107	9.930	9.930	0.000	99	155041	75.0	71.9	
86 3-Chlorobenzotrifluoride	180	10.387	10.387	0.000	91	277802	75.0	73.5	
87 Chlorobenzene	112	10.417	10.417	0.000	93	551865	75.0	72.9	
88 4-Chlorobenzotrifluoride	180	10.478	10.478	0.000	95	267607	75.0	74.9	
89 1,1,1,2-Tetrachloroethane	131	10.508	10.508	0.000	92	179137	75.0	72.6	
90 Ethylbenzene	106	10.514	10.514	0.000	99	302122	75.0	75.3	
91 m-Xylene & p-Xylene	106	10.648	10.648	0.000	0	371799	75.0	75.6	
92 o-Xylene	106	11.025	11.025	0.000	97	359461	75.0	76.9	
93 Styrene	104	11.050	11.050	0.000	95	603962	75.0	78.0	
94 Bromoform	173	11.232	11.232	0.000	96	77411	75.0	70.1	
96 2-Chlorobenzotrifluoride	180	11.299	11.299	0.000	96	279773	75.0	75.3	
97 Isopropylbenzene	105	11.396	11.396	0.000	97	886244	75.0	77.4	
100 Bromobenzene	156	11.707	11.707	0.000	95	218069	75.0	72.4	
99 1,1,2,2-Tetrachloroethane	83	11.707	11.707	0.000	76	217578	75.0	72.1	
102 trans-1,4-Dichloro-2-buten	53	11.743	11.743	0.000	72	78865	75.0	72.4	
101 1,2,3-Trichloropropane	110	11.762	11.762	0.000	88	70373	75.0	70.8	
103 N-Propylbenzene	120	11.810	11.810	0.000	99	256762	75.0	74.5	
104 2-Chlorotoluene	126	11.901	11.901	0.000	96	218909	75.0	74.7	
105 3-Chlorotoluene	126	11.968	11.968	0.000	96	225916	75.0	75.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
106 1,3,5-Trimethylbenzene	105	11.993	11.993	0.000	94	741712	75.0	76.1	
107 4-Chlorotoluene	126	12.023	12.023	0.000	98	235437	75.0	73.0	
108 tert-Butylbenzene	119	12.309	12.309	0.000	94	598804	75.0	75.6	
110 1,2,4-Trimethylbenzene	105	12.370	12.370	0.000	98	753282	75.0	77.2	
111 1,2-dichloro-4-(trifluorom	214	12.412	12.412	0.000	98	196559	75.0	72.2	
112 sec-Butylbenzene	105	12.534	12.534	0.000	95	839536	75.0	75.1	
113 1,3-Dichlorobenzene	146	12.650	12.650	0.000	97	386149	75.0	72.0	
114 4-Isopropyltoluene	119	12.692	12.692	0.000	97	724310	75.0	76.6	
115 1,4-Dichlorobenzene	146	12.753	12.753	0.000	93	396239	75.0	71.0	
116 2,4-Dichloro-1-(triflourom	214	12.777	12.777	0.000	96	183967	75.0	73.0	
118 2,5-Dichlorobenzotrifluori	214	12.820	12.820	0.000	0	196358	75.0	72.1	
120 n-Butylbenzene	91	13.100	13.100	0.000	98	598297	75.0	73.9	
121 1,2-Dichlorobenzene	146	13.112	13.112	0.000	95	354012	75.0	70.6	
122 1,2-Dibromo-3-Chloropropan	75	13.897	13.897	0.000	77	27203	75.0	66.1	
123 2,4- & 2,5- & 2,6- Dichlor	125	14.049	14.049	0.000	0	616649	225.0	215.5	
125 2,3- & 3,4- Dichlorotoluen	125	14.463	14.463	0.000	0	378630	150.0	138.7	
126 1,2,4-Trichlorobenzene	180	14.724	14.724	0.000	95	127381	75.0	65.3	
127 Hexachlorobutadiene	225	14.870	14.870	0.000	96	62268	75.0	66.3	
128 Naphthalene	128	14.992	14.992	0.000	98	327683	75.0	65.4	
129 1,2,3-Trichlorobenzene	180	15.217	15.217	0.000	94	100749	75.0	63.8	
131 2,4,5-Trichlorotoluene	159	15.990	15.990	0.000	0	32434	75.0	57.0	
130 2,3,6-Trichlorotoluene	159	16.093	16.093	0.000	92	30574	75.0	58.2	
148 2,3-Dichlorotoluene	1		0.000				ND	ND	
147 2,4-Dichlorotoluene	1		0.000				ND	ND	
146 2,5-Dichlorotoluene	1		0.000				ND	ND	
150 2,6-Dichlorotoluene	1		0.000				ND	ND	
149 3,4-Dichlorotoluene	1		0.000				ND	ND	
S 134 1,2-Dichloroethene, Total	96				0		150.0	139.0	
S 133 Xylenes, Total	106				0		150.0	152.4	
S 135 1,3-Dichloropropene, Total	1				0		150.0	143.7	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

VOAVAPRI_00006	Amount Added:	3.00	Units: uL	
voaWKet1 Rest_00001	Amount Added:	3.00	Units: uL	
voaWEE1stRest_00001	Amount Added:	3.00	Units: uL	
VOA8260VOAPRI_00139	Amount Added:	3.00	Units: uL	
VOA8260SURR_00040	Amount Added:	3.00	Units: uL	
VOAACROLEINPR_00006	Amount Added:	7.00	Units: uL	
VOA8260INT_00040	Amount Added:	2.00	Units: uL	Run Reagent

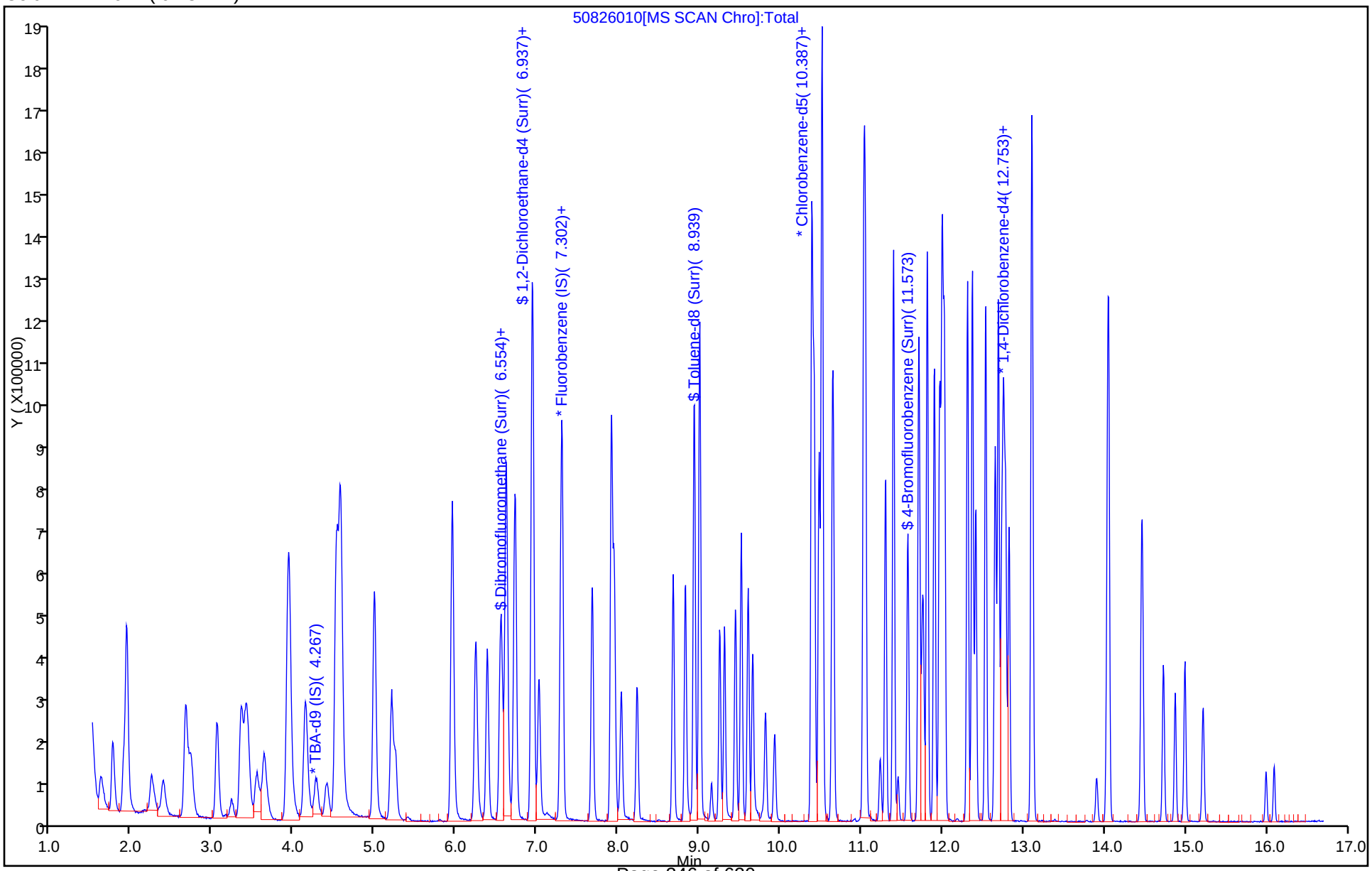
Report Date: 27-Aug-2015 11:49:42 Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20150826-8300.b\50826010.D

Injection Date:	26-Aug-2015 16:16:30	Instrument ID:	CHHP5	Operator ID:	001562
Lims ID:	IC VSTD15			Worklist Smp#:	10
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	MSVOA_LL_CHHP5	Limit Group:	VOA 8260C ICAL		

Column: DB-624 (0.18 mm)



TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20150826-8300.b\50826011.D
Lims ID: IC VSTD20
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 26-Aug-2015 16:40:30 ALS Bottle#: 10 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC VSTD20
Misc. Info.: 180-0008300-011
Operator ID: 001562 Instrument ID: CHHP5
Sublist: chrom-MSVOA_LL_CHHP5*sub4

Method: \\ChromNA\Pittsburgh\ChromData\CHHP5\20150826-8300.b\MSVOA_LL_CHHP5.m
Limit Group: VOA 8260C ICAL
Last Update: 27-Aug-2015 11:44:05 Calib Date: 26-Aug-2015 17:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20150826-8300.b\50826014.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK048

First Level Reviewer: fergusond Date: 27-Aug-2015 10:30:53

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.272	4.267	0.005	0	167321	1000.0	1000.0	
* 2 Fluorobenzene (IS)	96	7.289	7.290	-0.001	98	500323	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.386	10.387	-0.001	85	122904	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.728	12.729	-0.001	95	178343	50.0	50.0	
$ 5 Dibromofluoromethane (Surr	113	6.566	6.560	0.006	94	230039	100.0	93.6	
$ 6 1,2-Dichloroethane-d4 (Sur	65	6.937	6.931	0.006	0	306020	100.0	90.7	
$ 7 Toluene-d8 (Surr)	98	8.938	8.939	-0.001	95	918031	100.0	96.8	
$ 8 4-Bromofluorobenzene (Surr	95	11.572	11.573	-0.001	86	339508	100.0	94.9	
11 Dichlorodifluoromethane	85	1.614	1.614	0.000	99	268740	100.0	95.1	
12 Chloromethane	50	1.766	1.766	0.000	99	386017	100.0	93.0	
13 Vinyl chloride	62	1.900	1.894	0.006	98	356745	100.0	96.9	
14 Butadiene	39	1.936	1.937	-0.001	97	411077	100.0	94.5	
15 Bromomethane	94	2.240	2.247	-0.007	90	149495	100.0	99.8	
16 Chloroethane	64	2.386	2.387	-0.001	99	207155	100.0	93.3	
17 Dichlorofluoromethane	67	2.666	2.661	0.005	97	435665	100.0	92.4	
18 Trichlorofluoromethane	101	2.715	2.667	0.048	97	334740	100.0	95.0	
20 Ethyl ether	59	3.049	3.050	-0.001	97	295395	100.0	90.4	
21 Acrolein	56	3.226	3.232	-0.006	98	92519	200.0	190.1	
22 1,1-Dichloroethene	96	3.353	3.348	0.005	95	273818	100.0	98.3	
23 1,1,2-Trichloro-1,2,2-trif	101	3.414	3.403	0.011	93	284081	100.0	96.2	
24 Acetone	43	3.439	3.445	-0.006	99	173687	200.0	172.0	
25 Iodomethane	142	3.536	3.543	-0.007	98	394076	100.0	94.9	
26 Carbon disulfide	76	3.627	3.628	-0.001	100	636866	100.0	98.4	
28 3-Chloro-1-propene	76	3.925	3.920	0.005	88	156677	100.0	99.3	
30 Methyl acetate	43	3.938	3.938	0.000	99	1419018	500.0	470.4	
31 Methylene Chloride	84	4.138	4.139	-0.001	97	291271	100.0	93.8	
32 2-Methyl-2-propanol	59	4.406	4.407	-0.001	90	185374	1000.0	984.3	
33 Acrylonitrile	53	4.522	4.522	0.000	99	1347643	1000.0	920.7	
34 trans-1,2-Dichloroethene	96	4.564	4.565	-0.001	95	289331	100.0	95.6	
35 Methyl tert-butyl ether	73	4.582	4.577	0.005	96	664089	100.0	94.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
36 Hexane	57	4.990	4.997	-0.007	97	493203	100.0	97.1	
37 1,1-Dichloroethane	63	5.203	5.204	-0.001	96	564450	100.0	94.7	
38 Vinyl acetate	43	5.252	5.252	0.000	97	437799	100.0	97.9	
44 2,2-Dichloropropane	77	5.945	5.952	-0.007	78	234514	100.0	98.2	
45 cis-1,2-Dichloroethene	96	5.951	5.952	-0.001	85	302874	100.0	93.7	
46 2-Butanone (MEK)	43	5.957	5.964	-0.007	62	269779	200.0	177.9	
49 Chlorobromomethane	128	6.237	6.238	-0.001	92	133128	100.0	93.8	
51 Tetrahydrofuran	42	6.249	6.250	-0.001	91	207145	200.0	170.2	
52 Chloroform	83	6.383	6.384	-0.001	96	482795	100.0	93.8	
53 1,1,1-Trichloroethane	97	6.541	6.542	-0.001	97	366328	100.0	96.2	
54 Cyclohexane	56	6.614	6.615	-0.001	96	637776	100.0	100.1	
56 Carbon tetrachloride	117	6.718	6.718	0.000	94	319309	100.0	98.5	
55 1,1-Dichloropropene	75	6.730	6.730	0.000	91	417880	100.0	99.2	
57 Isobutyl alcohol	41	6.924	6.925	-0.001	92	224262	2500.0	2353.8	
58 Benzene	78	6.943	6.943	0.000	98	1175215	100.0	95.3	
59 1,2-Dichloroethane	62	7.022	7.022	0.000	96	399895	100.0	93.7	
62 n-Heptane	43	7.308	7.308	0.000	97	444901	100.0	96.4	
64 Trichloroethene	130	7.679	7.679	0.000	96	285365	100.0	94.6	
66 Methylcyclohexane	83	7.916	7.917	-0.001	96	484430	100.0	101.8	
67 1,2-Dichloropropane	63	7.947	7.947	-0.001	94	304322	100.0	94.0	
70 1,4-Dioxane	88	8.026	8.026	0.000	40	44562	2000.0	1996.7	
68 Dibromomethane	93	8.038	8.038	0.000	97	152946	100.0	93.1	
71 Dichlorobromomethane	83	8.232	8.233	-0.001	97	310676	100.0	95.6	
74 cis-1,3-Dichloropropene	75	8.677	8.677	0.000	90	374197	100.0	98.2	
75 4-Methyl-2-pentanone (MIBK	43	8.829	8.829	0.000	99	614019	200.0	202.8	
76 Toluene	91	9.005	9.006	-0.001	98	1201786	100.0	98.8	
77 trans-1,3-Dichloropropene	75	9.254	9.249	0.005	99	323125	100.0	101.8	
78 Ethyl methacrylate	69	9.309	9.310	-0.001	94	316812	100.0	103.2	
79 1,1,2-Trichloroethane	97	9.443	9.444	-0.001	94	224541	100.0	97.0	
80 Tetrachloroethene	164	9.516	9.517	-0.001	95	230665	100.0	97.7	
81 1,3-Dichloropropane	76	9.601	9.602	-0.001	98	408560	100.0	95.1	
82 2-Hexanone	43	9.656	9.657	-0.001	99	430988	200.0	197.2	
84 Chlorodibromomethane	129	9.820	9.815	0.005	89	202349	100.0	101.0	
85 Ethylene Dibromide	107	9.930	9.930	0.000	100	212653	100.0	95.3	
86 3-Chlorobenzotrifluoride	180	10.386	10.387	-0.001	91	368187	100.0	94.2	
87 Chlorobenzene	112	10.416	10.417	-0.001	93	752971	100.0	96.1	
88 4-Chlorobenzotrifluoride	180	10.477	10.478	-0.001	96	350243	100.0	94.7	
89 1,1,1,2-Tetrachloroethane	131	10.508	10.508	0.000	91	247335	100.0	96.9	
90 Ethylbenzene	106	10.520	10.514	0.006	99	417206	100.0	100.5	
91 m-Xylene & p-Xylene	106	10.648	10.648	0.000	0	516778	100.0	101.5	
92 o-Xylene	106	11.031	11.025	0.006	97	488783	100.0	101.0	
93 Styrene	104	11.049	11.050	-0.001	95	812783	100.0	101.4	
94 Bromoform	173	11.232	11.232	0.000	96	109983	100.0	96.2	
96 2-Chlorobenzotrifluoride	180	11.299	11.299	-0.001	95	362334	100.0	94.2	
97 Isopropylbenzene	105	11.396	11.396	0.000	97	1229067	100.0	103.7	
100 Bromobenzene	156	11.706	11.707	-0.001	95	300450	100.0	98.1	
99 1,1,2,2-Tetrachloroethane	83	11.706	11.707	-0.001	76	290248	100.0	93.0	
102 trans-1,4-Dichloro-2-buten	53	11.743	11.743	0.000	75	107372	100.0	97.0	
101 1,2,3-Trichloropropane	110	11.767	11.762	0.005	84	94129	100.0	93.2	
103 N-Propylbenzene	120	11.816	11.810	0.006	99	351814	100.0	100.4	
104 2-Chlorotoluene	126	11.901	11.901	0.000	96	301246	100.0	101.1	
105 3-Chlorotoluene	126	11.968	11.968	0.000	95	297767	100.0	97.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
106 1,3,5-Trimethylbenzene	105	11.992	11.993	-0.001	94	1014826	100.0	102.5	
107 4-Chlorotoluene	126	12.022	12.023	-0.001	98	324433	100.0	99.0	
108 tert-Butylbenzene	119	12.308	12.309	-0.001	94	836893	100.0	104.0	
110 1,2,4-Trimethylbenzene	105	12.369	12.370	-0.001	98	1013032	100.0	102.1	
111 1,2-dichloro-4-(trifluorom	214	12.412	12.412	0.000	98	258438	100.0	93.4	
112 sec-Butylbenzene	105	12.533	12.534	-0.001	95	1168492	100.0	102.8	
113 1,3-Dichlorobenzene	146	12.649	12.650	-0.001	97	523315	100.0	96.0	
114 4-Isopropyltoluene	119	12.692	12.692	0.000	96	987448	100.0	102.7	
115 1,4-Dichlorobenzene	146	12.752	12.753	-0.001	94	532103	100.0	93.9	
116 2,4-Dichloro-1-(triflourom	214	12.777	12.777	0.000	95	235991	100.0	92.1	
118 2,5-Dichlorobenzotrifluori	214	12.819	12.820	-0.001	0	254571	100.0	91.9	
120 n-Butylbenzene	91	13.099	13.100	-0.001	98	841574	100.0	102.3	
121 1,2-Dichlorobenzene	146	13.111	13.112	-0.001	94	474503	100.0	93.1	
122 1,2-Dibromo-3-Chloropropan	75	13.902	13.897	0.005	77	39315	100.0	94.0	
123 2,4- & 2,5- & 2,6- Dichlor	125	14.042	14.049	-0.007	0	827426	300.0	284.4	
125 2,3- & 3,4- Dichlorotoluen	125	14.462	14.463	-0.001	0	510138	200.0	183.9	
126 1,2,4-Trichlorobenzene	180	14.723	14.724	-0.001	94	175776	100.0	88.7	
127 Hexachlorobutadiene	225	14.869	14.870	-0.001	97	83392	100.0	87.3	
128 Naphthalene	128	14.991	14.992	-0.001	98	463258	100.0	90.9	
129 1,2,3-Trichlorobenzene	180	15.210	15.217	-0.007	96	137103	100.0	85.4	
131 2,4,5-Trichlorotoluene	159	15.995	15.990	0.005	0	45065	100.0	77.8	
130 2,3,6-Trichlorotoluene	159	16.092	16.093	-0.001	97	45128	100.0	84.5	
146 2,5-Dichlorotoluene	1		0.000				ND	ND	
148 2,3-Dichlorotoluene	1		0.000				ND	ND	
147 2,4-Dichlorotoluene	1		0.000				ND	ND	
149 3,4-Dichlorotoluene	1		0.000				ND	ND	
150 2,6-Dichlorotoluene	1		0.000				ND	ND	
S 134 1,2-Dichloroethene, Total	96				0		200.0	189.3	
S 133 Xylenes, Total	106				0		200.0	202.5	
S 135 1,3-Dichloropropene, Total	1				0		200.0	200.0	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

VOAACROLEINPR_00006	Amount Added:	8.00	Units: uL		
VOAVAPRI_00006	Amount Added:	4.00	Units: uL		
voaWKet1 Rest_00001	Amount Added:	4.00	Units: uL		
voaWEE1stRest_00001	Amount Added:	4.00	Units: uL		
VOA8260VOAPRI_00139	Amount Added:	4.00	Units: uL		
VOA8260SURR_00040	Amount Added:	4.00	Units: uL		
VOA8260INT_00040	Amount Added:	2.00	Units: uL	Run Reagent	

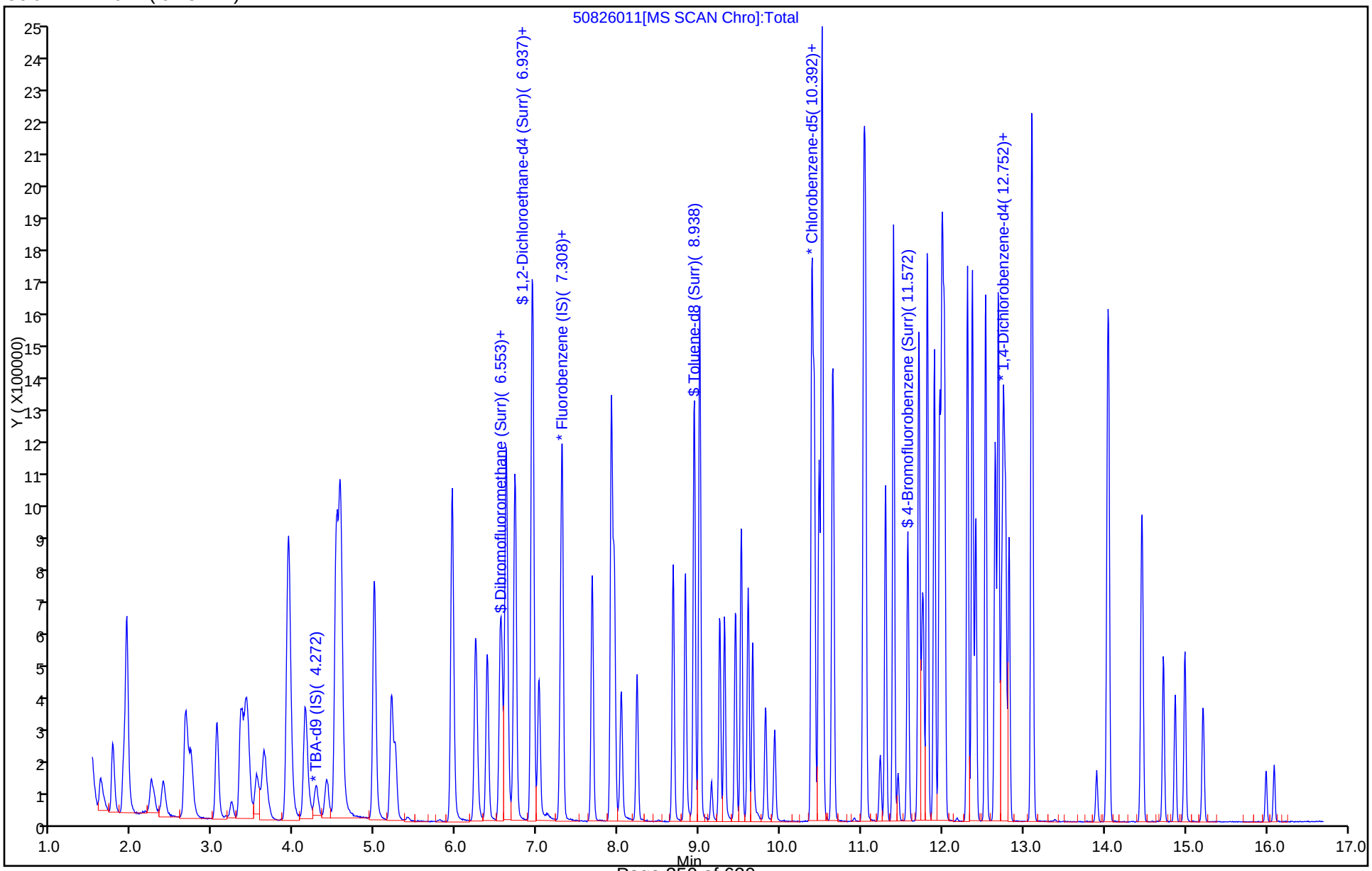
Report Date: 27-Aug-2015 11:44:06 Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20150826-8300.b\50826011.D

Injection Date:	26-Aug-2015 16:40:30	Instrument ID:	CHHP5	Operator ID:	001562
Lims ID:	IC VSTD20			Worklist Smp#:	11
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	MSVOA_LL_CHHP5	Limit Group:	VOA 8260C ICAL		

Column: DB-624 (0.18 mm)



TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20150826-8300.b\50826012.D
Lims ID: IC VSTD35
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 26-Aug-2015 17:04:30 ALS Bottle#: 11 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC VSTD35
Misc. Info.: 180-0008300-012
Operator ID: 001562 Instrument ID: CHHP5
Sublist: chrom-MSVOA_LL_CHHP5*sub4

Method: \\ChromNA\Pittsburgh\ChromData\CHHP5\20150826-8300.b\MSVOA_LL_CHHP5.m
Limit Group: VOA 8260C ICAL
Last Update: 27-Aug-2015 11:50:05 Calib Date: 26-Aug-2015 17:52:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20150826-8300.b\50826014.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK048

First Level Reviewer: fergusond Date: 27-Aug-2015 11:50:05

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
*	1 TBA-d9 (IS)	65	4.278	4.267	0.011	0	175358	1000.0	1000.0	
*	2 Fluorobenzene (IS)	96	7.289	7.290	-0.001	98	502256	50.0	50.0	
*	3 Chlorobenzene-d5	119	10.385	10.387	-0.002	63	129614	50.0	50.0	
*	4 1,4-Dichlorobenzene-d4	152	12.727	12.729	-0.002	95	181323	50.0	50.0	
$	5 Dibromofluoromethane (Surr	113	6.559	6.560	-0.001	93	399678	175.0	162.0	
$	6 1,2-Dichloroethane-d4 (Sur	65	6.930	6.931	-0.001	0	544829	175.0	160.8	
$	7 Toluene-d8 (Surr)	98	8.937	8.939	-0.002	94	1580158	175.0	158.0	
$	8 4-Bromofluorobenzene (Surr	95	11.572	11.573	-0.001	87	617045	175.0	163.6	
	11 Dichlorodifluoromethane	85	1.619	1.614	0.005	99	461015	175.0	162.5	
	12 Chloromethane	50	1.765	1.766	-0.001	99	669660	175.0	160.7	
	13 Vinyl chloride	62	1.905	1.894	0.011	98	603655	175.0	163.3	
	14 Butadiene	39	1.935	1.937	-0.002	94	700624	175.0	160.5	
	15 Bromomethane	94	2.233	2.247	-0.014	90	267454	175.0	177.8	
	16 Chloroethane	64	2.379	2.387	-0.008	99	358728	175.0	160.9	
	17 Dichlorofluoromethane	67	2.659	2.661	-0.002	98	748877	175.0	158.3	
	18 Trichlorofluoromethane	101	2.708	2.667	0.041	98	579992	175.0	163.9	
	20 Ethyl ether	59	3.049	3.050	-0.001	97	521056	175.0	158.9	
	21 Acrolein	56	3.231	3.232	-0.001	99	108307	225.0	221.7	
	22 1,1-Dichloroethene	96	3.347	3.348	-0.001	95	473565	175.0	169.3	
	23 1,1,2-Trichloro-1,2,2-trif	101	3.408	3.403	0.005	94	488054	175.0	164.7	
	24 Acetone	43	3.438	3.445	-0.007	98	332039	350.0	327.6	
	25 Iodomethane	142	3.547	3.543	0.004	98	696716	175.0	167.1	
	26 Carbon disulfide	76	3.633	3.628	0.005	100	1177201	175.0	181.2	
	28 3-Chloro-1-propene	76	3.919	3.920	-0.001	89	285911	175.0	180.5	
	30 Methyl acetate	43	3.937	3.938	-0.001	99	2539904	875.0	838.7	
	31 Methylene Chloride	84	4.138	4.139	-0.001	97	510471	175.0	168.4	
	32 2-Methyl-2-propanol	59	4.411	4.407	0.004	90	352268	1750.0	1784.8	
	33 Acrylonitrile	53	4.521	4.522	-0.001	99	2452551	1750.0	1669.2	
	34 trans-1,2-Dichloroethene	96	4.570	4.565	0.005	95	510637	175.0	168.1	
	35 Methyl tert-butyl ether	73	4.582	4.577	0.005	97	1204325	175.0	171.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
36 Hexane	57	4.989	4.997	-0.008	96	889892	175.0	174.5	
37 1,1-Dichloroethane	63	5.202	5.204	-0.002	96	998105	175.0	166.8	
38 Vinyl acetate	43	5.251	5.252	-0.001	97	801339	175.0	178.5	
44 2,2-Dichloropropane	77	5.944	5.952	-0.008	79	413686	175.0	172.5	
45 cis-1,2-Dichloroethene	96	5.950	5.952	-0.002	86	550789	175.0	169.7	
46 2-Butanone (MEK)	43	5.957	5.964	-0.007	98	514894	350.0	338.2	
49 Chlorobromomethane	128	6.236	6.238	-0.002	92	234034	175.0	164.3	
51 Tetrahydrofuran	42	6.249	6.250	-0.001	91	417684	350.0	342.0	
52 Chloroform	83	6.382	6.384	-0.002	96	838419	175.0	162.2	
53 1,1,1-Trichloroethane	97	6.541	6.542	-0.001	97	661680	175.0	173.1	
54 Cyclohexane	56	6.614	6.615	-0.001	96	1115710	175.0	174.4	
56 Carbon tetrachloride	117	6.717	6.718	-0.001	96	566329	175.0	174.0	
55 1,1-Dichloropropene	75	6.729	6.730	-0.001	91	734207	175.0	173.7	
57 Isobutyl alcohol	41	6.924	6.925	-0.001	94	417725	4375.0	4367.4	
58 Benzene	78	6.942	6.943	-0.001	98	2000326	175.0	161.5	
59 1,2-Dichloroethane	62	7.021	7.022	-0.001	97	709743	175.0	165.7	
62 n-Heptane	43	7.307	7.308	-0.001	96	819932	175.0	177.0	
64 Trichloroethene	130	7.678	7.679	-0.001	97	506964	175.0	167.3	
66 Methylcyclohexane	83	7.915	7.917	-0.002	96	866758	175.0	181.5	
67 1,2-Dichloropropane	63	7.946	7.947	-0.001	94	547361	175.0	168.4	
70 1,4-Dioxane	88	8.025	8.026	-0.001	46	82622	3500.0	3687.8	M
68 Dibromomethane	93	8.037	8.038	-0.001	96	277699	175.0	168.4	
71 Dichlorobromomethane	83	8.232	8.233	-0.001	98	576102	175.0	176.5	
74 cis-1,3-Dichloropropene	75	8.676	8.677	-0.001	90	714562	175.0	186.9	
75 4-Methyl-2-pentanone (MIBK	43	8.828	8.829	-0.001	98	1157588	350.0	362.5	
76 Toluene	91	9.004	9.006	-0.002	97	2050607	175.0	159.8	
77 trans-1,3-Dichloropropene	75	9.248	9.249	-0.001	98	619485	175.0	185.0	
78 Ethyl methacrylate	69	9.309	9.310	-0.001	94	602921	175.0	186.2	
79 1,1,2-Trichloroethane	97	9.442	9.444	-0.002	93	403722	175.0	165.4	
80 Tetrachloroethene	164	9.515	9.517	-0.002	95	401915	175.0	161.4	
81 1,3-Dichloropropane	76	9.601	9.602	-0.001	98	743698	175.0	164.1	
82 2-Hexanone	43	9.655	9.657	-0.002	99	820858	350.0	356.1	
84 Chlorodibromomethane	129	9.813	9.815	-0.002	91	377032	175.0	178.4	
85 Ethylene Dibromide	107	9.929	9.930	-0.001	99	390862	175.0	166.2	
86 3-Chlorobenzotrifluoride	180	10.385	10.387	-0.002	92	686777	175.0	166.5	
87 Chlorobenzene	112	10.416	10.417	-0.001	91	1331912	175.0	161.2	
88 4-Chlorobenzotrifluoride	180	10.477	10.478	-0.001	96	642626	175.0	164.8	
89 1,1,1,2-Tetrachloroethane	131	10.507	10.508	-0.001	93	453483	175.0	168.4	
90 Ethylbenzene	106	10.513	10.514	-0.001	98	756322	175.0	172.7	
91 m-Xylene & p-Xylene	106	10.647	10.648	-0.001	0	934055	175.0	173.9	
92 o-Xylene	106	11.030	11.025	0.005	95	890574	175.0	174.5	
93 Styrene	104	11.048	11.050	-0.002	95	1460286	175.0	172.7	
94 Bromoform	173	11.231	11.232	-0.001	96	217546	175.0	180.4	
96 2-Chlorobenzotrifluoride	180	11.298	11.299	-0.001	95	670799	175.0	165.3	
97 Isopropylbenzene	105	11.395	11.396	-0.001	97	2113845	175.0	169.1	
100 Bromobenzene	156	11.712	11.707	0.005	95	543146	175.0	174.5	
99 1,1,2,2-Tetrachloroethane	83	11.705	11.707	-0.002	77	530728	175.0	161.2	
102 trans-1,4-Dichloro-2-buten	53	11.742	11.743	-0.001	78	209384	175.0	186.1	
101 1,2,3-Trichloropropane	110	11.760	11.762	-0.002	87	177490	175.0	172.9	
103 N-Propylbenzene	120	11.815	11.810	0.005	97	636587	175.0	178.7	
104 2-Chlorotoluene	126	11.900	11.901	-0.001	95	529736	175.0	174.9	
105 3-Chlorotoluene	126	11.967	11.968	-0.001	95	552058	175.0	177.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
106 1,3,5-Trimethylbenzene	105	11.997	11.993	0.004	95	1760059	175.0	174.8	
107 4-Chlorotoluene	126	12.022	12.023	-0.001	98	582109	175.0	174.7	
108 tert-Butylbenzene	119	12.308	12.309	-0.001	94	1486960	175.0	181.7	
110 1,2,4-Trimethylbenzene	105	12.369	12.370	-0.001	98	1772230	175.0	175.7	
111 1,2-dichloro-4-(trifluorom	214	12.411	12.412	-0.001	98	484133	175.0	172.2	
112 sec-Butylbenzene	105	12.533	12.534	-0.001	96	2029430	175.0	175.6	
113 1,3-Dichlorobenzene	146	12.648	12.650	-0.002	97	937539	175.0	169.2	
114 4-Isopropyltoluene	119	12.691	12.692	-0.001	96	1738859	175.0	177.9	
115 1,4-Dichlorobenzene	146	12.752	12.753	-0.001	93	949324	175.0	164.7	
116 2,4-Dichloro-1-(triflourom	214	12.782	12.777	0.005	95	453275	175.0	174.0	
118 2,5-Dichlorobenzotrifluori	214	12.819	12.820	-0.001	0	486163	175.0	172.6	
120 n-Butylbenzene	91	13.099	13.100	-0.001	97	1504673	175.0	179.9	
121 1,2-Dichlorobenzene	146	13.111	13.112	-0.001	96	849612	175.0	164.0	
122 1,2-Dibromo-3-Chloropropan	75	13.902	13.897	0.005	79	75555	175.0	177.7	
123 2,4- & 2,5- & 2,6- Dichlor	125	14.048	14.049	-0.001	0	1576122	525.0	532.8	
125 2,3- & 3,4- Dichlorotoluen	125	14.461	14.463	-0.002	0	994231	350.0	352.5	
126 1,2,4-Trichlorobenzene	180	14.723	14.724	-0.001	94	339446	175.0	168.4	
127 Hexachlorobutadiene	225	14.869	14.870	-0.001	97	160392	175.0	165.2	
128 Naphthalene	128	14.990	14.992	-0.002	98	934428	175.0	180.4	
129 1,2,3-Trichlorobenzene	180	15.216	15.217	-0.001	94	261711	175.0	160.4	
131 2,4,5-Trichlorotoluene	159	15.988	15.990	-0.002	0	100325	175.0	170.5	
130 2,3,6-Trichlorotoluene	159	16.092	16.093	-0.001	94	99793	175.0	185.2	
148 2,3-Dichlorotoluene	1		0.000				ND	ND	
146 2,5-Dichlorotoluene	1		0.000				ND	ND	
150 2,6-Dichlorotoluene	1		0.000				ND	ND	
149 3,4-Dichlorotoluene	1		0.000				ND	ND	
147 2,4-Dichlorotoluene	1		0.000				ND	ND	
S 133 Xylenes, Total	106				0		350.0	348.4	
S 134 1,2-Dichloroethene, Total	96				0		350.0	337.9	
S 135 1,3-Dichloropropene, Total	1				0		350.0	371.9	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

VOA8260SURR_00040	Amount Added:	7.00	Units: uL	
VOA8260VOAPRI_00139	Amount Added:	7.00	Units: uL	
voaWEE1stRest_00001	Amount Added:	7.00	Units: uL	
voaWKet1 Rest_00001	Amount Added:	7.00	Units: uL	
VOAVAPRI_00006	Amount Added:	7.00	Units: uL	
VOAACROLEINPR_00006	Amount Added:	9.00	Units: uL	
VOA8260INT_00040	Amount Added:	2.00	Units: uL	Run Reagent

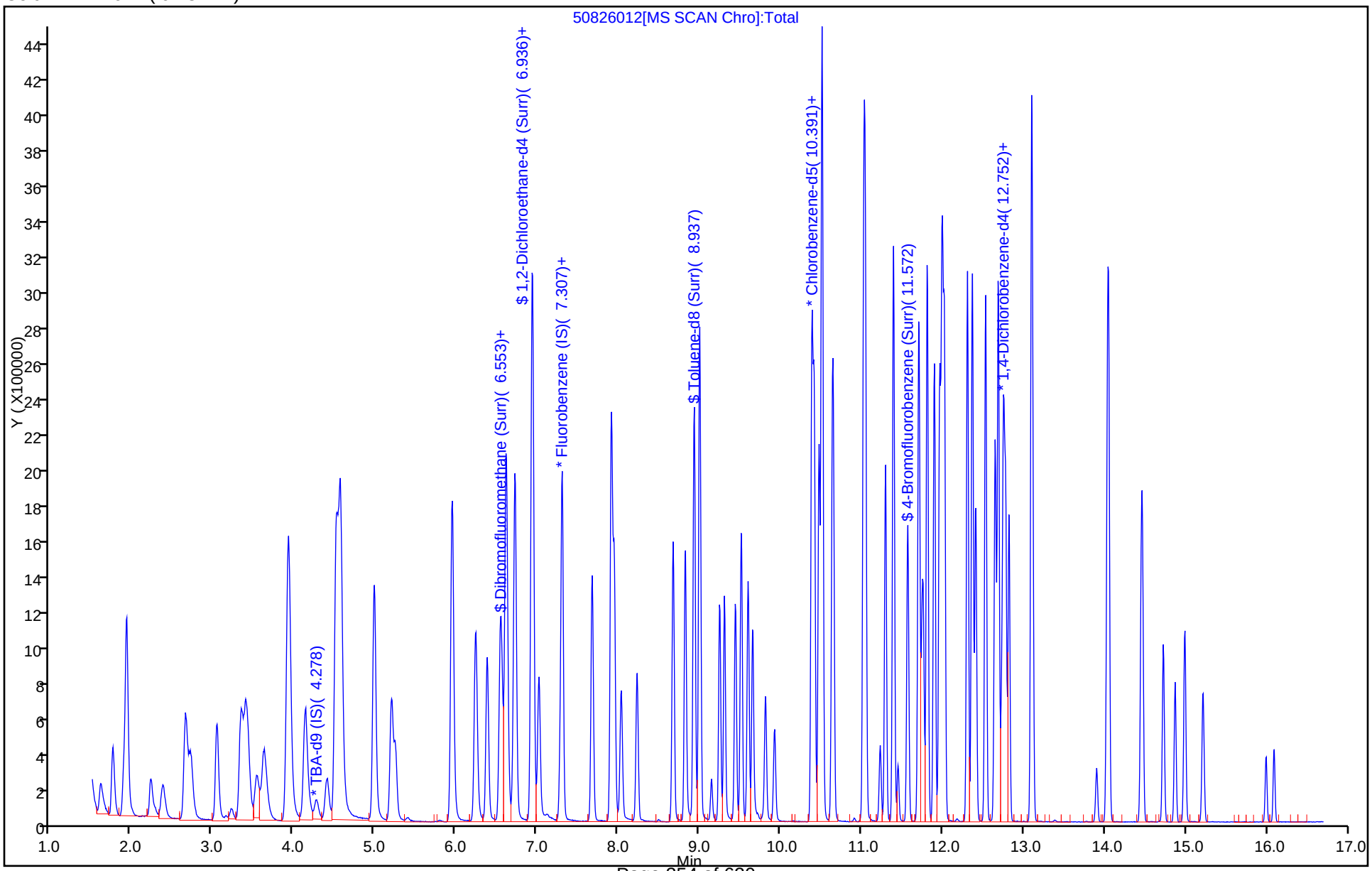
Report Date: 27-Aug-2015 11:50:07 Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20150826-8300.b\50826012.D

Injection Date:	26-Aug-2015 17:04:30	Instrument ID:	CHHP5	Operator ID:	001562
Lims ID:	IC VSTD35			Worklist Smp#:	12
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	MSVOA_LL_CHHP5	Limit Group:	VOA 8260C ICAL		

Column: DB-624 (0.18 mm)



Manual Integration/User Assign Peak Report

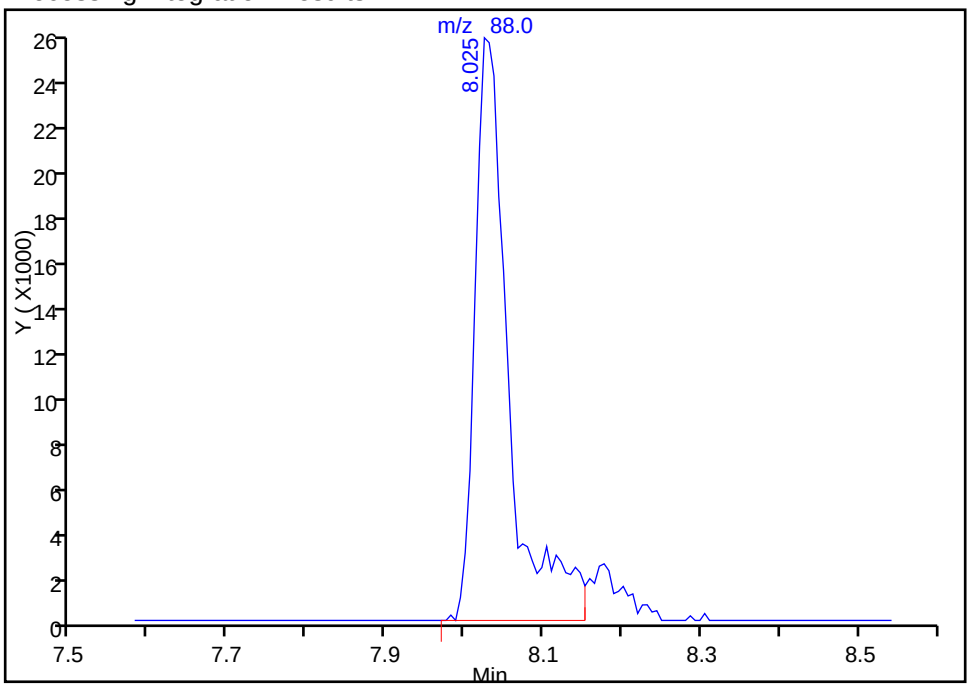
TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20150826-8300.b\50826012.D
Injection Date: 26-Aug-2015 17:04:30 Instrument ID: CHHP5
Lims ID: IC VSTD35
Client ID:
Operator ID: 001562 ALS Bottle#: 11 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP5 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

70 1,4-Dioxane, CAS: 123-91-1

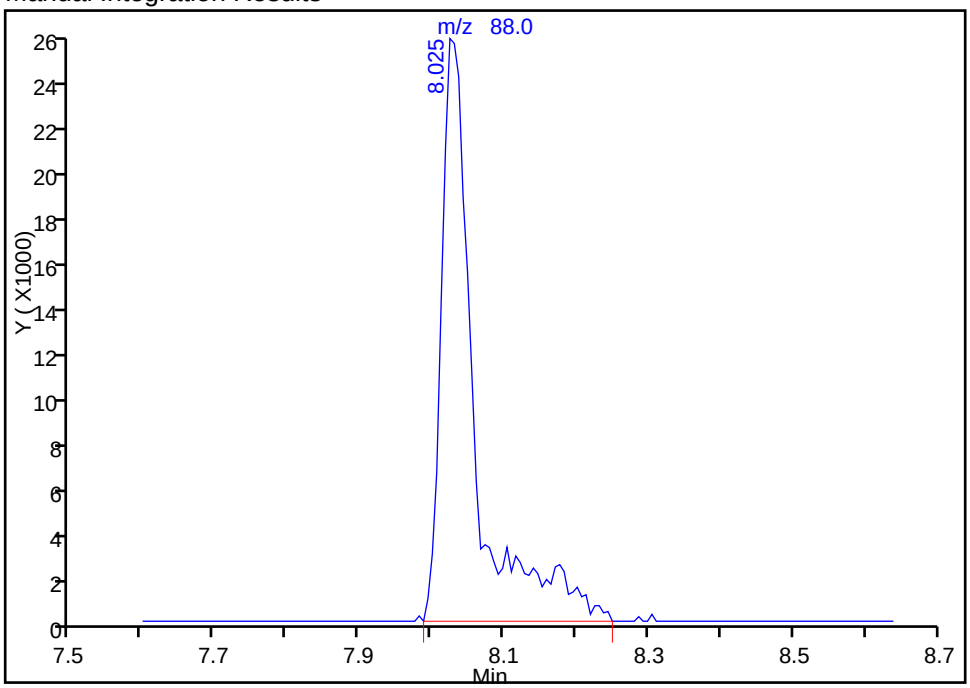
Processing Integration Results

RT: 8.02
Area: 75762
Amount: 3419.0350
Amount Units: ng



Manual Integration Results

RT: 8.02
Area: 82622
Amount: 3687.8427
Amount Units: ng



Reviewer: fergusond, 27-Aug-2015 10:34:42
Audit Action: Manually Integrated
Audit Reason: Incomplete Integration

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20150826-8300.b\50826013.D
Lims ID: IC VSTD40
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 26-Aug-2015 17:28:30 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC VSTD40
Misc. Info.: 180-0008300-013
Operator ID: 001562 Instrument ID: CHHP5
Sublist: chrom-MSVOA_LL_CHHP5*sub4

Method: \\ChromNA\Pittsburgh\ChromData\CHHP5\20150826-8300.b\MSVOA_LL_CHHP5.m
Limit Group: VOA 8260C ICAL
Last Update: 27-Aug-2015 11:50:23 Calib Date: 26-Aug-2015 17:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20150826-8300.b\50826014.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK048

First Level Reviewer: fergusond Date: 27-Aug-2015 10:38:36

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.274	4.267	0.007	0	190633	1000.0	1000.0	
* 2 Fluorobenzene (IS)	96	7.285	7.290	-0.005	98	491948	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.388	10.387	0.001	59	135336	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.730	12.729	0.001	94	186041	50.0	50.0	
$ 5 Dibromofluoromethane (Surr	113	6.562	6.560	0.002	94	438908	200.0	181.7	
$ 6 1,2-Dichloroethane-d4 (Sur	65	6.933	6.931	0.002	0	597233	200.0	180.0	
$ 7 Toluene-d8 (Surr)	98	8.934	8.939	-0.005	94	1727014	200.0	165.4	
$ 8 4-Bromofluorobenzene (Surr	95	11.568	11.573	-0.005	86	697446	200.0	177.1	
11 Dichlorodifluoromethane	85	1.616	1.614	0.002	98	506611	200.0	182.3	
12 Chloromethane	50	1.762	1.766	-0.004	99	733518	200.0	179.7	
13 Vinyl chloride	62	1.902	1.894	0.008	98	663498	200.0	183.3	
14 Butadiene	39	1.938	1.937	0.001	95	762590	200.0	178.4	
15 Bromomethane	94	2.230	2.247	-0.017	91	244127	200.0	165.7	
16 Chloroethane	64	2.382	2.387	-0.005	99	395735	200.0	181.2	
17 Dichlorofluoromethane	67	2.662	2.661	0.001	98	843233	200.0	182.0	
18 Trichlorofluoromethane	101	2.711	2.667	0.044	98	636269	200.0	183.6	
20 Ethyl ether	59	3.045	3.050	-0.005	97	582513	200.0	181.3	
21 Acrolein	56	3.228	3.232	-0.004	99	117496	250.0	245.5	
22 1,1-Dichloroethene	96	3.343	3.348	-0.005	94	516257	200.0	188.4	
23 1,1,2-Trichloro-1,2,2-trif	101	3.410	3.403	0.007	93	532678	200.0	183.5	
24 Acetone	43	3.435	3.445	-0.010	99	349354	400.0	351.9	
25 Iodomethane	142	3.538	3.543	-0.005	98	765249	200.0	187.4	
26 Carbon disulfide	76	3.629	3.628	0.001	100	1297173	200.0	203.9	
28 3-Chloro-1-propene	76	3.921	3.920	0.001	89	325399	200.0	209.7	
30 Methyl acetate	43	3.940	3.938	0.002	99	2811173	1000.0	947.8	
31 Methylene Chloride	84	4.134	4.139	-0.005	97	573290	200.0	194.0	
32 2-Methyl-2-propanol	59	4.408	4.407	0.001	90	410928	2000.0	1915.2	
33 Acrylonitrile	53	4.517	4.522	-0.005	98	2730347	2000.0	1897.2	
34 trans-1,2-Dichloroethene	96	4.560	4.565	-0.005	95	552053	200.0	185.6	
35 Methyl tert-butyl ether	73	4.578	4.577	0.001	97	1367672	200.0	198.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
36 Hexane	57	4.986	4.997	-0.011	97	948868	200.0	190.0	
37 1,1-Dichloroethane	63	5.199	5.204	-0.005	97	1104940	200.0	188.5	
38 Vinyl acetate	43	5.247	5.252	-0.005	97	887283	200.0	201.8	
45 cis-1,2-Dichloroethene	96	5.947	5.952	-0.005	84	600559	200.0	188.9	
44 2,2-Dichloropropane	77	5.947	5.952	-0.005	84	451339	200.0	192.2	
46 2-Butanone (MEK)	43	5.953	5.964	-0.011	90	569128	400.0	381.6	
49 Chlorobromomethane	128	6.239	6.238	0.001	92	262832	200.0	188.3	
51 Tetrahydrofuran	42	6.245	6.250	-0.005	95	461621	400.0	385.8	
52 Chloroform	83	6.379	6.384	-0.005	95	922240	200.0	182.1	
53 1,1,1-Trichloroethane	97	6.543	6.542	0.001	96	710348	200.0	189.7	
54 Cyclohexane	56	6.610	6.615	-0.005	96	1210903	200.0	193.3	
56 Carbon tetrachloride	117	6.714	6.718	-0.004	95	616016	200.0	193.2	
55 1,1-Dichloropropene	75	6.726	6.730	-0.004	93	785333	200.0	189.7	
57 Isobutyl alcohol	41	6.927	6.925	0.002	94	492768	5000.0	5259.9	
58 Benzene	78	6.939	6.943	-0.004	98	2197241	200.0	181.1	
59 1,2-Dichloroethane	62	7.018	7.022	-0.004	96	788760	200.0	188.0	
62 n-Heptane	43	7.310	7.308	0.002	96	859948	200.0	189.6	
64 Trichloroethene	130	7.675	7.679	-0.004	96	556980	200.0	187.7	
66 Methylcyclohexane	83	7.912	7.917	-0.005	96	937977	200.0	200.6	
67 1,2-Dichloropropane	63	7.949	7.947	0.002	94	594824	200.0	186.9	
70 1,4-Dioxane	88	8.034	8.026	0.008	41	91547	4000.0	4171.8	
68 Dibromomethane	93	8.034	8.038	-0.004	97	307857	200.0	190.6	
71 Dichlorobromomethane	83	8.228	8.233	-0.005	98	644471	200.0	201.6	
74 cis-1,3-Dichloropropene	75	8.672	8.677	-0.005	91	812298	200.0	216.9	
75 4-Methyl-2-pentanone (MIBK	43	8.825	8.829	-0.004	98	1320471	400.0	396.0	
76 Toluene	91	9.001	9.006	-0.005	97	2228576	200.0	166.3	
77 trans-1,3-Dichloropropene	75	9.250	9.249	0.001	98	704918	200.0	201.6	
78 Ethyl methacrylate	69	9.311	9.310	0.001	94	687101	200.0	203.2	
79 1,1,2-Trichloroethane	97	9.445	9.444	0.001	94	441190	200.0	173.1	
80 Tetrachloroethene	164	9.518	9.517	0.001	95	438898	200.0	168.8	
81 1,3-Dichloropropane	76	9.603	9.602	0.001	98	840507	200.0	177.6	
82 2-Hexanone	43	9.658	9.657	0.001	98	943138	400.0	391.8	
84 Chlorodibromomethane	129	9.816	9.815	0.001	91	427847	200.0	193.9	
85 Ethylene Dibromide	107	9.926	9.930	-0.004	98	449617	200.0	183.1	
86 3-Chlorobenzotrifluoride	180	10.388	10.387	0.001	93	749898	200.0	174.2	
87 Chlorobenzene	112	10.412	10.417	-0.005	92	1491257	200.0	172.9	
88 4-Chlorobenzotrifluoride	180	10.473	10.478	-0.005	96	709487	200.0	174.3	
89 1,1,1,2-Tetrachloroethane	131	10.510	10.508	0.002	94	513686	200.0	182.7	
90 Ethylbenzene	106	10.516	10.514	0.002	98	837593	200.0	183.2	
91 m-Xylene & p-Xylene	106	10.650	10.648	0.002	0	1021032	200.0	182.1	
92 o-Xylene	106	11.027	11.025	0.002	97	984811	200.0	184.8	
93 Styrene	104	11.051	11.050	0.001	94	1627751	200.0	184.4	
94 Bromoform	173	11.234	11.232	0.002	96	254607	200.0	202.2	
96 2-Chlorobenzotrifluoride	180	11.294	11.299	-0.005	95	748529	200.0	176.7	
97 Isopropylbenzene	105	11.392	11.396	-0.004	97	2317406	200.0	177.6	
100 Bromobenzene	156	11.708	11.707	0.001	95	609774	200.0	190.9	
99 1,1,2,2-Tetrachloroethane	83	11.708	11.707	0.001	78	605346	200.0	176.1	
102 trans-1,4-Dichloro-2-buten	53	11.745	11.743	0.002	43	238659	200.0	206.7	
101 1,2,3-Trichloropropane	110	11.763	11.762	0.001	86	200908	200.0	190.7	
103 N-Propylbenzene	120	11.812	11.810	0.002	97	717909	200.0	196.4	
104 2-Chlorotoluene	126	11.897	11.901	-0.004	96	608876	200.0	195.9	
105 3-Chlorotoluene	126	11.964	11.968	-0.004	95	621607	200.0	194.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
106 1,3,5-Trimethylbenzene	105	11.994	11.993	0.001	95	1952122	200.0	189.0	
107 4-Chlorotoluene	126	12.024	12.023	0.001	98	649501	200.0	189.9	
108 tert-Butylbenzene	119	12.310	12.309	0.001	94	1642231	200.0	195.6	
110 1,2,4-Trimethylbenzene	105	12.365	12.370	-0.005	98	1973541	200.0	190.7	
111 1,2-dichloro-4-(trifluorom	214	12.408	12.412	-0.004	97	529814	200.0	183.6	
112 sec-Butylbenzene	105	12.529	12.534	-0.005	96	2244027	200.0	189.3	
113 1,3-Dichlorobenzene	146	12.651	12.650	0.001	96	1071203	200.0	188.4	
114 4-Isopropyltoluene	119	12.688	12.692	-0.004	97	1944911	200.0	193.9	
115 1,4-Dichlorobenzene	146	12.754	12.753	0.001	94	1084086	200.0	183.3	
116 2,4-Dichloro-1-(triflourom	214	12.779	12.777	0.002	95	483618	200.0	180.9	
118 2,5-Dichlorobenzotrifluori	214	12.821	12.820	0.001	0	571654	200.0	197.9	
120 n-Butylbenzene	91	13.095	13.100	-0.005	98	1691227	200.0	197.0	
121 1,2-Dichlorobenzene	146	13.107	13.112	-0.005	94	988861	200.0	186.1	
122 1,2-Dibromo-3-Chloropropan	75	13.904	13.897	0.007	78	91242	200.0	209.1	
123 2,4- & 2,5- & 2,6- Dichlor	125	14.044	14.049	-0.005	0	1875036	600.0	617.8	
125 2,3- & 3,4- Dichlorotoluen	125	14.458	14.463	-0.005	0	1204899	400.0	416.3	
126 1,2,4-Trichlorobenzene	180	14.726	14.724	0.002	94	424061	200.0	205.1	
127 Hexachlorobutadiene	225	14.872	14.870	0.002	97	188644	200.0	189.4	
128 Naphthalene	128	14.987	14.992	-0.005	98	1180622	200.0	222.2	
129 1,2,3-Trichlorobenzene	180	15.212	15.217	-0.005	95	333363	200.0	199.2	
131 2,4,5-Trichlorotoluene	159	15.991	15.990	0.001	0	135933	200.0	225.1	
130 2,3,6-Trichlorotoluene	159	16.088	16.093	-0.005	95	131306	200.0	242.0	
150 2,6-Dichlorotoluene	1		0.000				ND	ND	
149 3,4-Dichlorotoluene	1		0.000				ND	ND	
146 2,5-Dichlorotoluene	1		0.000				ND	ND	
147 2,4-Dichlorotoluene	1		0.000				ND	ND	
148 2,3-Dichlorotoluene	1		0.000				ND	ND	
S 134 1,2-Dichloroethene, Total	96				0		400.0	374.5	
S 133 Xylenes, Total	106				0		400.0	366.9	
S 135 1,3-Dichloropropene, Total	1				0		400.0	418.5	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

VOAACROLEINPR_00006	Amount Added:	10.00	Units: uL	
VOAVAPRI_00006	Amount Added:	8.00	Units: uL	
voaWKet1 Rest_00001	Amount Added:	8.00	Units: uL	
voaWEE1stRest_00001	Amount Added:	8.00	Units: uL	
VOA8260VOAPRI_00139	Amount Added:	8.00	Units: uL	
VOA8260SURR_00040	Amount Added:	8.00	Units: uL	
VOA8260INT_00040	Amount Added:	2.00	Units: uL	Run Reagent

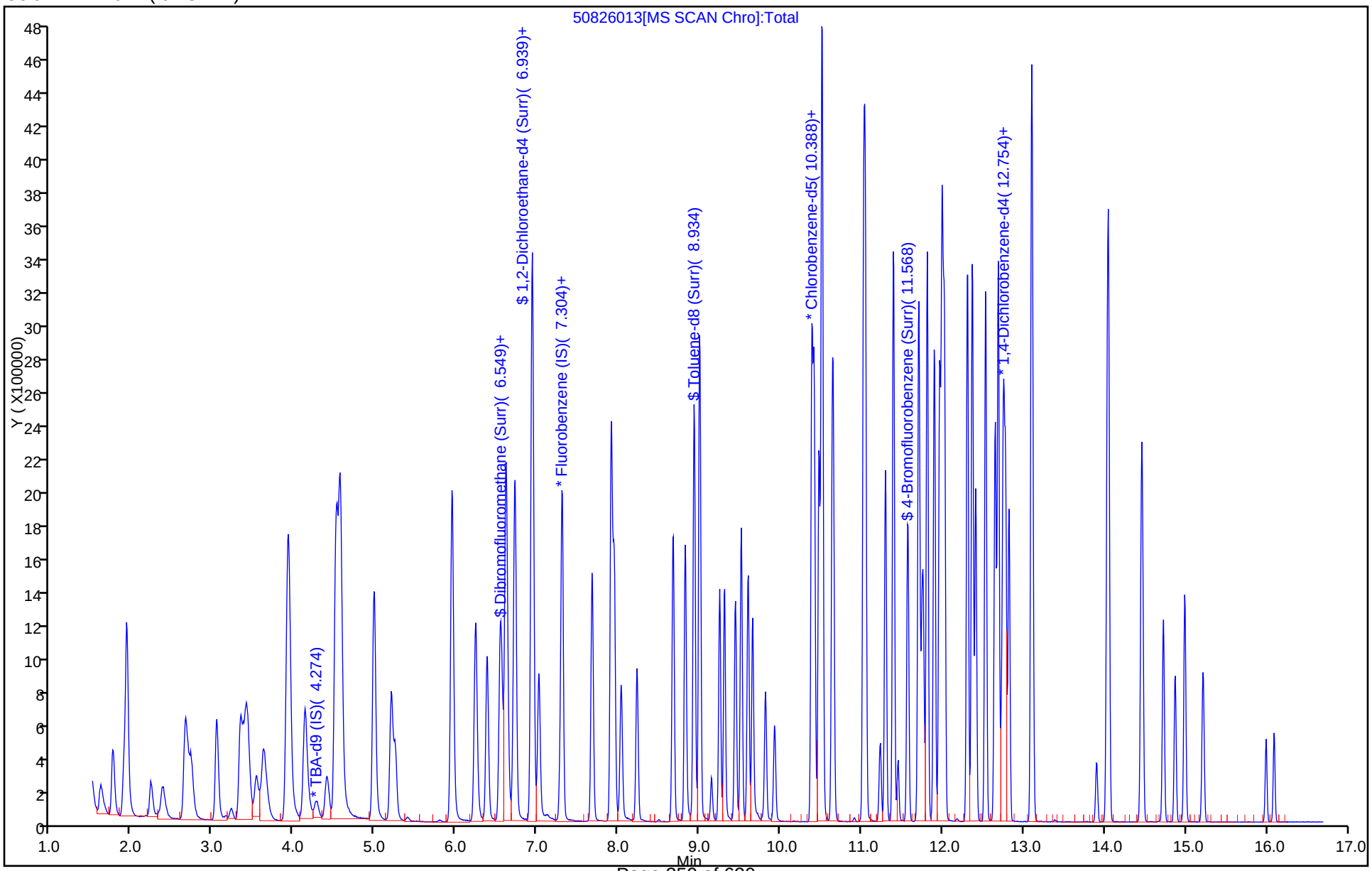
Report Date: 27-Aug-2015 11:50:25 Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20150826-8300.b\50826013.D

Injection Date:	26-Aug-2015 17:28:30	Instrument ID:	CHHP5	Operator ID:	001562
Lims ID:	IC VSTD40			Worklist Smp#:	13
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	MSVOA_LL_CHHP5	Limit Group:	VOA 8260C ICAL		

Column: DB-624 (0.18 mm)



TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20150826-8300.b\50826014.D
Lims ID: IC VSTD50
Client ID:
Sample Type: IC Calib Level: 8
Inject. Date: 26-Aug-2015 17:52:30 ALS Bottle#: 13 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC VSTD50
Misc. Info.: 180-0008300-014
Operator ID: 001562 Instrument ID: CHHP5
Sublist: chrom-MSVOA_LL_CHHP5*sub4

Method: \\ChromNA\Pittsburgh\ChromData\CHHP5\20150826-8300.b\MSVOA_LL_CHHP5.m
Limit Group: VOA 8260C ICAL
Last Update: 27-Aug-2015 11:50:43 Calib Date: 26-Aug-2015 17:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20150826-8300.b\50826014.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK048

First Level Reviewer: fergusond Date: 27-Aug-2015 10:43:05

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.271	4.267	0.004	0	178553	1000.0	1000.0	
* 2 Fluorobenzene (IS)	96	7.289	7.290	-0.001	98	422908	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.385	10.387	-0.002	56	117789	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.728	12.729	-0.001	92	156354	50.0	50.0	
$ 5 Dibromofluoromethane (Surr	113	6.559	6.560	-0.001	93	562879	250.0	271.0	
$ 6 1,2-Dichloroethane-d4 (Sur	65	6.936	6.931	0.005	0	751925	250.0	263.6	
$ 7 Toluene-d8 (Surr)	98	8.938	8.939	-0.001	94	2103482	250.0	231.5	
$ 8 4-Bromofluorobenzene (Surr	95	11.572	11.573	-0.001	86	854277	250.0	249.2	
11 Dichlorodifluoromethane	85	1.619	1.614	0.005	99	585297	250.0	245.0	
12 Chloromethane	50	1.765	1.766	-0.001	99	886889	250.0	252.8	
13 Vinyl chloride	62	1.905	1.894	0.011	99	782206	250.0	251.3	
14 Butadiene	39	1.935	1.937	-0.002	96	893578	250.0	243.1	
15 Bromomethane	94	2.234	2.247	-0.013	90	333317	250.0	263.2	
16 Chloroethane	64	2.380	2.387	-0.007	99	465079	250.0	247.7	
17 Dichlorofluoromethane	67	2.665	2.661	0.004	98	986298	250.0	247.6	
18 Trichlorofluoromethane	101	2.702	2.667	0.035	96	739174	250.0	248.1	M
20 Ethyl ether	59	3.043	3.050	-0.007	97	750491	250.0	271.8	
21 Acrolein	56	3.225	3.232	-0.007	99	127965	275.0	311.1	
22 1,1-Dichloroethene	96	3.341	3.348	-0.007	95	627614	250.0	266.5	
23 1,1,2-Trichloro-1,2,2-trif	101	3.408	3.403	0.005	93	629046	250.0	252.1	
24 Acetone	43	3.438	3.445	-0.007	99	457819	500.0	536.5	
25 Iodomethane	142	3.535	3.543	-0.008	99	963985	250.0	274.6	
26 Carbon disulfide	76	3.627	3.628	-0.001	100	1607306	250.0	293.9	
28 3-Chloro-1-propene	76	3.913	3.920	-0.007	89	399041	250.0	299.1	
30 Methyl acetate	43	3.937	3.938	-0.001	98	3450277	1250.0	1353.2	
31 Methylene Chloride	84	4.132	4.139	-0.007	98	715184	250.0	284.3	
32 2-Methyl-2-propanol	59	4.405	4.407	-0.002	91	514360	2500.0	2559.4	
33 Acrylonitrile	53	4.521	4.522	-0.001	97	3337347	2500.0	2697.5	
34 trans-1,2-Dichloroethene	96	4.563	4.565	-0.002	95	687878	250.0	269.0	
35 Methyl tert-butyl ether	73	4.576	4.577	-0.001	98	1750025	250.0	295.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
36 Hexane	57	4.989	4.997	-0.008	97	1125958	250.0	262.3	
37 1,1-Dichloroethane	63	5.202	5.204	-0.002	96	1377944	250.0	273.5	
38 Vinyl acetate	43	5.245	5.252	-0.007	97	1072494	250.0	283.7	
45 cis-1,2-Dichloroethene	96	5.951	5.952	-0.001	85	760457	250.0	278.3	
44 2,2-Dichloropropane	77	5.944	5.952	-0.008	84	564524	250.0	279.6	
46 2-Butanone (MEK)	43	5.957	5.964	-0.007	99	698551	500.0	544.9	
49 Chlorobromomethane	128	6.236	6.238	-0.002	92	336595	250.0	280.6	
51 Tetrahydrofuran	42	6.249	6.250	-0.001	93	561739	500.0	546.2	
52 Chloroform	83	6.382	6.384	-0.002	96	1166838	250.0	268.1	
53 1,1,1-Trichloroethane	97	6.541	6.542	-0.001	97	898258	250.0	279.1	
54 Cyclohexane	56	6.614	6.615	-0.001	96	1451032	250.0	269.4	
56 Carbon tetrachloride	117	6.711	6.718	-0.007	95	764597	250.0	279.0	
55 1,1-Dichloropropene	75	6.729	6.730	-0.001	91	975802	250.0	274.2	
57 Isobutyl alcohol	41	6.924	6.925	-0.001	94	588608	6250.0	7308.6	
58 Benzene	78	6.942	6.943	-0.001	99	2707324	250.0	259.6	
59 1,2-Dichloroethane	62	7.021	7.022	-0.001	96	987010	250.0	273.7	
62 n-Heptane	43	7.307	7.308	-0.001	96	1040377	250.0	266.8	
64 Trichloroethene	130	7.678	7.679	-0.001	97	693909	250.0	272.0	
66 Methylcyclohexane	83	7.915	7.917	-0.002	95	1114866	250.0	277.3	
67 1,2-Dichloropropane	63	7.946	7.947	-0.001	94	765352	250.0	279.7	
70 1,4-Dioxane	88	8.031	8.026	0.005	42	111802	5000.0	5926.6	
68 Dibromomethane	93	8.037	8.038	-0.001	97	386058	250.0	278.0	
71 Dichlorobromomethane	83	8.232	8.233	-0.001	98	812136	250.0	295.5	
74 cis-1,3-Dichloropropene	75	8.676	8.677	-0.001	91	1033255	250.0	320.9	
75 4-Methyl-2-pentanone (MIBK	43	8.828	8.829	-0.001	98	1599371	500.0	551.1	
76 Toluene	91	9.004	9.006	-0.002	96	2681762	250.0	230.0	
77 trans-1,3-Dichloropropene	75	9.248	9.249	-0.001	99	891401	250.0	292.9	
78 Ethyl methacrylate	69	9.309	9.310	-0.001	94	862044	250.0	292.9	
79 1,1,2-Trichloroethane	97	9.442	9.444	-0.002	94	557982	250.0	251.6	
80 Tetrachloroethene	164	9.515	9.517	-0.002	94	530215	250.0	234.2	
81 1,3-Dichloropropane	76	9.601	9.602	-0.001	98	1030200	250.0	250.2	
82 2-Hexanone	43	9.655	9.657	-0.002	98	1123041	500.0	536.1	
84 Chlorodibromomethane	129	9.814	9.815	-0.001	91	542940	250.0	282.7	
85 Ethylene Dibromide	107	9.929	9.930	-0.001	98	553588	250.0	259.0	
86 3-Chlorobenzotrifluoride	180	10.391	10.387	0.004	92	813323	250.0	217.0	
87 Chlorobenzene	112	10.416	10.417	-0.001	91	1793475	250.0	238.9	
88 4-Chlorobenzotrifluoride	180	10.477	10.478	-0.001	96	781989	250.0	220.7	
89 1,1,1,2-Tetrachloroethane	131	10.507	10.508	-0.001	93	642159	250.0	262.4	
90 Ethylbenzene	106	10.519	10.514	0.005	97	1001210	250.0	251.5	
91 m-Xylene & p-Xylene	106	10.647	10.648	-0.001	0	1238884	250.0	253.8	
92 o-Xylene	106	11.030	11.025	0.005	97	1203666	250.0	259.5	
93 Styrene	104	11.048	11.050	-0.002	94	1948876	250.0	253.6	
94 Bromoform	173	11.231	11.232	-0.001	95	317730	250.0	289.9	
96 2-Chlorobenzotrifluoride	180	11.298	11.299	-0.001	94	809757	250.0	219.6	
97 Isopropylbenzene	105	11.395	11.396	-0.001	98	2727755	250.0	240.1	
100 Bromobenzene	156	11.705	11.707	-0.002	95	743219	250.0	276.9	
99 1,1,2,2-Tetrachloroethane	83	11.705	11.707	-0.002	77	725938	250.0	242.6	
102 trans-1,4-Dichloro-2-buten	53	11.742	11.743	-0.001	77	290130	250.0	299.0	
101 1,2,3-Trichloropropane	110	11.766	11.762	0.004	87	246872	250.0	278.9	
103 N-Propylbenzene	120	11.809	11.810	-0.001	97	850210	250.0	276.7	
104 2-Chlorotoluene	126	11.900	11.901	-0.001	95	726063	250.0	278.0	
105 3-Chlorotoluene	126	11.967	11.968	-0.001	95	702342	250.0	261.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
106 1,3,5-Trimethylbenzene	105	11.997	11.993	0.004	95	2264532	250.0	260.9	
107 4-Chlorotoluene	126	12.022	12.023	-0.001	98	778860	250.0	271.0	
108 tert-Butylbenzene	119	12.308	12.309	-0.001	94	1938716	250.0	274.7	
110 1,2,4-Trimethylbenzene	105	12.369	12.370	-0.001	98	2303042	250.0	264.8	
111 1,2-dichloro-4-(trifluorom	214	12.411	12.412	-0.001	97	580120	250.0	239.2	
112 sec-Butylbenzene	105	12.533	12.534	-0.001	96	2563359	250.0	257.3	
113 1,3-Dichlorobenzene	146	12.648	12.650	-0.002	96	1263925	250.0	264.5	
114 4-Isopropyltoluene	119	12.691	12.692	-0.001	95	2238219	250.0	265.5	
115 1,4-Dichlorobenzene	146	12.758	12.753	0.005	91	1287906	250.0	259.1	
116 2,4-Dichloro-1-(triflourom	214	12.782	12.777	0.005	96	531698	250.0	236.7	
118 2,5-Dichlorobenzotrifluori	214	12.819	12.820	-0.001	0	585601	250.0	241.2	
120 n-Butylbenzene	91	13.099	13.100	-0.001	96	1909580	250.0	264.7	
121 1,2-Dichlorobenzene	146	13.111	13.112	-0.001	94	1135542	250.0	254.3	
122 1,2-Dibromo-3-Chloropropan	75	13.902	13.897	0.005	92	105625	250.0	288.0	
123 2,4- & 2,5- & 2,6- Dichlor	125	14.048	14.049	-0.001	0	1891413	750.0	741.5	
125 2,3- & 3,4- Dichlorotoluen	125	14.461	14.463	-0.002	0	1220209	500.0	501.7	
126 1,2,4-Trichlorobenzene	180	14.723	14.724	-0.001	94	445017	250.0	256.1	
127 Hexachlorobutadiene	225	14.869	14.870	-0.001	98	196056	250.0	234.2	
128 Naphthalene	128	14.991	14.992	-0.001	98	1235965	250.0	276.7	
129 1,2,3-Trichlorobenzene	180	15.216	15.217	-0.001	94	351787	250.0	250.1	
131 2,4,5-Trichlorotoluene	159	15.994	15.990	0.004	0	136778	250.0	269.5	
130 2,3,6-Trichlorotoluene	159	16.092	16.093	-0.001	96	133555	250.0	291.3	
146 2,5-Dichlorotoluene	1		0.000				ND	ND	
150 2,6-Dichlorotoluene	1		0.000				ND	ND	
147 2,4-Dichlorotoluene	1		0.000				ND	ND	
149 3,4-Dichlorotoluene	1		0.000				ND	ND	
148 2,3-Dichlorotoluene	1		0.000				ND	ND	
S 133 Xylenes, Total	106				0		500.0	513.3	
S 134 1,2-Dichloroethene, Total	96				0		500.0	547.3	
S 135 1,3-Dichloropropene, Total	1				0		500.0	613.8	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

VOA8260SURR_00040	Amount Added:	10.00	Units: uL	
VOA8260VOAPRI_00139	Amount Added:	10.00	Units: uL	
voaWEE1stRest_00001	Amount Added:	10.00	Units: uL	
voaWKet1 Rest_00001	Amount Added:	10.00	Units: uL	
VOAVAPRI_00006	Amount Added:	10.00	Units: uL	
VOAACROLEINPR_00006	Amount Added:	11.00	Units: uL	
VOA8260INT_00040	Amount Added:	2.00	Units: uL	Run Reagent

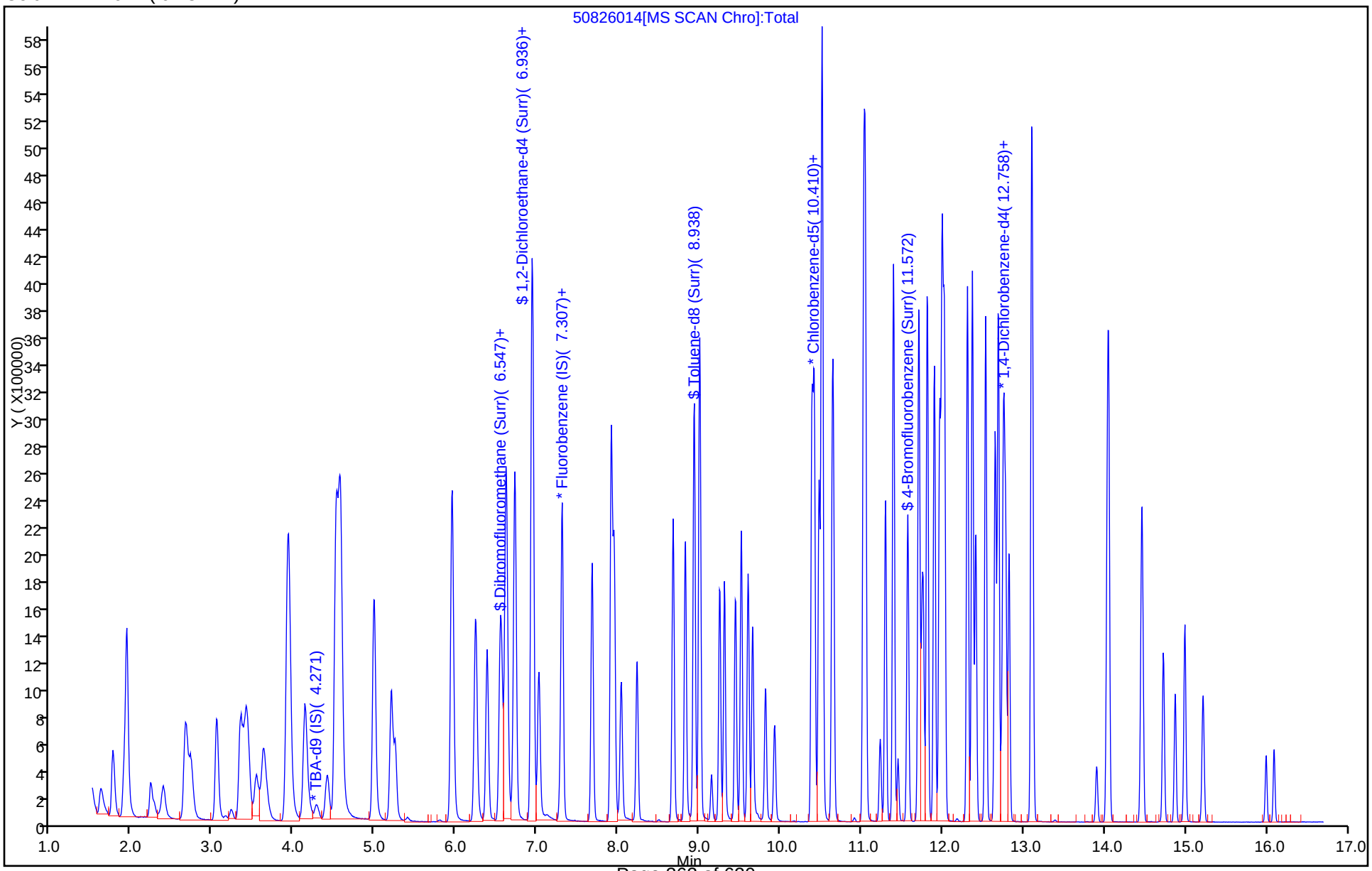
Report Date: 27-Aug-2015 11:50:46 Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20150826-8300.b\50826014.D

Injection Date:	26-Aug-2015 17:52:30	Instrument ID:	CHHP5	Operator ID:	001562
Lims ID:	IC VSTD50			Worklist Smp#:	14
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	MSVOA_LL_CHHP5	Limit Group:	VOA 8260C ICAL		

Column: DB-624 (0.18 mm)



Manual Integration/User Assign Peak Report

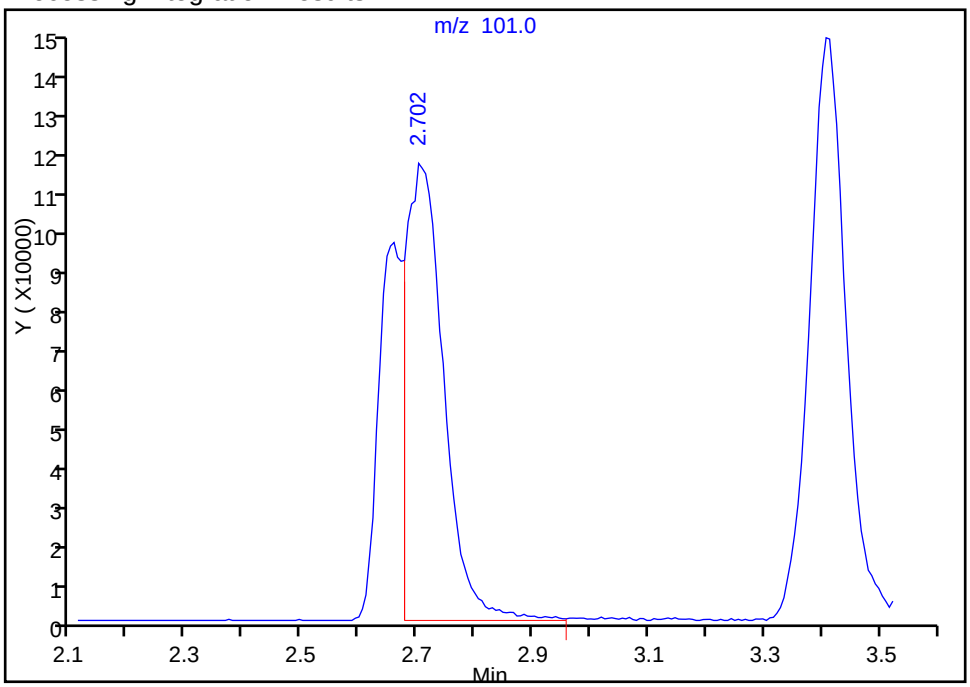
TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHHP5\20150826-8300.b\50826014.D				
Injection Date:	26-Aug-2015 17:52:30	Instrument ID:	CHHP5		
Lims ID:	IC VSTD50				
Client ID:					
Operator ID:	001562	ALS Bottle#:	13	Worklist Smp#:	14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVOA_LL_CHHP5	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

18 Trichlorofluoromethane, CAS: 75-69-4

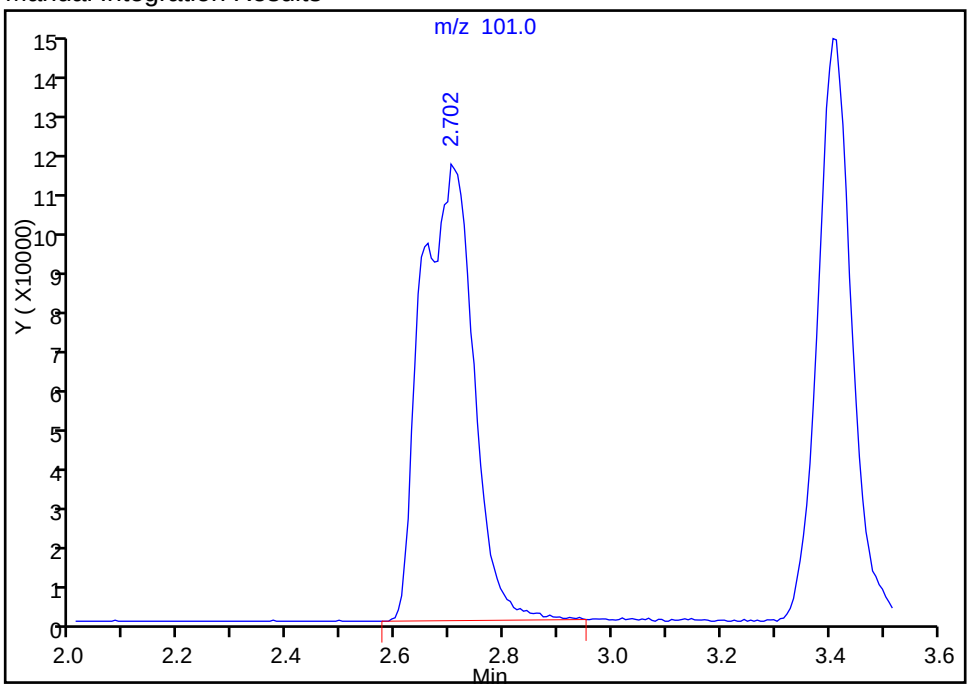
Processing Integration Results

RT: 2.70
Area: 496107
Amount: 173.5779
Amount Units: ng



Manual Integration Results

RT: 2.70
Area: 739174
Amount: 248.0735
Amount Units: ng



Reviewer: fergusond, 27-Aug-2015 10:43:05
Audit Action: Manually Integrated
Audit Reason: Incomplete Integration

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Pittsburgh Job No.: 180-48309-1 Analy Batch No.: 149469

SDG No.:

Instrument ID: CHHP6 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/31/2015 14:00 Calibration End Date: 07/31/2015 18:02 Calibration ID: 24897

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-149469/14	60731014.D
Level 2	IC 180-149469/4	60731004.D
Level 3	ICIS 180-149469/5	60731005.D
Level 4	IC 180-149469/6	60731006.D
Level 5	IC 180-149469/7	60731007.D
Level 6	IC 180-149469/8	60731008.D
Level 7	IC 180-149469/9	60731009.D
Level 8	IC 180-149469/10	60731010.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Dichlorodifluoromethane	0.3784 0.3460	0.3285 0.3562	0.3421 0.3286	0.3615	0.3285	Ave		0.3462			0.1000	5.3		20.0			
Chloromethane	0.3392 0.2834	0.3040 0.2926	0.3038 0.2799	0.2953	0.2891	Ave		0.2984			0.1000	6.2		20.0			
Vinyl chloride	0.3459 0.3113	0.3263 0.3277	0.3180 0.3087	0.3307	0.3028	Ave		0.3214			0.1000	4.4		20.0			
1,3-Butadiene	0.3349 0.2908	0.3110 0.3014	0.3020 0.2828	0.3029	0.2847	Ave		0.3013			0.0100	5.5		20.0			
Bromomethane	0.2086 0.1495	0.1854 0.1475	0.1846 +++++	0.1749	0.1644	Ave		0.1735			0.0500	12.5		20.0			
Chloroethane	0.2173 0.2164	0.2251 0.2256	0.2291 0.2095	0.2259	0.2061	Ave		0.2194			0.0500	3.8		20.0			
Dichlorofluoromethane	0.5463 0.4931	0.5444 0.5038	0.5165 0.4737	0.5267	0.4802	Ave		0.5106			0.0100	5.4		20.0			
Trichlorofluoromethane	0.4247 0.4001	0.4150 0.4067	0.4245 0.3867	0.4197	0.3805	Ave		0.4072			0.1000	4.2		20.0			
Ethyl ether	0.3195 0.2756	0.2914 0.2931	0.2819 0.2818	0.2864	0.2793	Ave		0.2886			0.0100	4.8		20.0			
Acrolein	0.0310 0.0318	0.0309 0.0342	0.0297 0.0340	0.0320	0.0281	Ave		0.0315			0.0100	6.5		20.0			
1,1-Dichloroethene	0.2600 0.2474	0.2411 0.2670	0.2447 0.2555	0.2551	0.2426	Ave		0.2517			0.1000	3.7		20.0			
1,1,2-Trichloro-1,2,2-trifluoroethane	0.2893 0.2688	0.2611 0.2694	0.2602 0.2595	0.2670	0.2502	Ave		0.2657			0.1000	4.3		20.0			
Acetone	0.0973 0.0856	0.0931 0.0888	0.0785 0.0945	0.0834	0.0864	Ave		0.0885			0.0500	7.1		20.0			
Iodomethane	0.3086 0.3409	0.3325 0.3671	0.3285 0.3511	0.3438	0.3304	Ave		0.3379			0.0100	5.1		20.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Pittsburgh Job No.: 180-48309-1 Analy Batch No.: 149469

SDG No.:

Instrument ID: CHHP6 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/31/2015 14:00 Calibration End Date: 07/31/2015 18:02 Calibration ID: 24897

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Carbon disulfide	0.5727 0.6930	0.5928 0.7451	0.6074 0.7142	0.6519	0.6407	Ave		0.6522			0.1000	9.4		20.0			
Allyl chloride	0.1218 0.1547	0.1181 0.1646	0.1364 0.1606	0.1388	0.1402	Ave		0.1419			0.0100	12.0		20.0			
Methyl acetate	0.2192 0.2022	0.2017 0.2144	0.2047 0.2065	0.2072	0.2036	Ave		0.2074			0.1000	3.0		20.0			
Methylene Chloride	0.6631 0.3174	0.3874 0.3424	0.3361 0.3218	0.3366	0.3254	Lin2	1.7443	0.3138			0.1000				0.9990		0.9900
tert-Butyl alcohol	1.2140 1.0554	1.0995 1.1213	1.1428 1.0861	1.1107	1.1728	Ave		1.1253			0.0100	4.5		20.0			
Acrylonitrile	0.1067 0.1050	0.1002 0.1099	0.1033 0.1041	0.1042	0.1030	Ave		0.1046			0.0100	2.7		20.0			
trans-1,2-Dichloroethene	0.2889 0.2884	0.2883 0.3069	0.2879 0.2909	0.2950	0.2774	Ave		0.2905			0.1000	2.9		20.0			
Methyl tert-butyl ether	0.8998 0.8761	0.8047 0.9451	0.8127 0.8903	0.8782	0.8559	Ave		0.8703			0.1000	5.3		20.0			
Hexane	0.4211 0.4030	0.3676 0.4125	0.3850 0.3998	0.3938	0.3659	Ave		0.3936			0.0100	5.0		20.0			
1,1-Dichloroethane	0.5075 0.5187	0.5138 0.5491	0.5187 0.5191	0.5246	0.5085	Ave		0.5200			0.2000	2.5		20.0			
Vinyl acetate	0.3814 0.4481	0.3469 0.4857	0.3831 0.4671	0.4180	0.4276	Ave		0.4197			0.0100	11.2		20.0			
2,2-Dichloropropane	0.2106 0.2916	0.2324 0.2998	0.2516 0.2938	0.2636	0.2601	Ave		0.2629			0.0100	12.0		20.0			
cis-1,2-Dichloroethene	0.3288 0.3134	0.2997 0.3336	0.3121 0.3178	0.3154	0.3061	Ave		0.3158			0.1000	3.5		20.0			
2-Butanone (MEK)	0.1157 0.1241	0.1112 0.1317	0.1112 0.1244	0.1274	0.1201	Ave		0.1207			0.0500	6.2		20.0			
Bromochloromethane	0.1341 0.1264	0.1227 0.1349	0.1194 0.1303	0.1248	0.1226	Ave		0.1269			0.0100	4.5		20.0			
Tetrahydrofuran	0.0899 0.0835	0.0679 0.0856	0.0729 0.0875	0.0830	0.0802	Ave		0.0813			0.0100	9.2		20.0			
Chloroform	0.5240 0.5101	0.5110 0.5372	0.5156 0.5057	0.5231	0.5023	Ave		0.5161			0.2000	2.2		20.0			
1,1,1-Trichloroethane	0.3298 0.3969	0.3454 0.4238	0.3768 0.4049	0.3936	0.3797	Ave		0.3814			0.1000	8.1		20.0			
Cyclohexane	0.4970 0.5019	0.4468 0.5151	0.4891 0.4904	0.5075	0.4613	Ave		0.4886			0.1000	4.8		20.0			
Carbon tetrachloride	0.2286 0.2886	0.2478 0.3002	0.2596 0.2920	0.2763	0.2618	Ave		0.2694			0.1000	9.1		20.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Pittsburgh Job No.: 180-48309-1 Analy Batch No.: 149469

SDG No.:

Instrument ID: CHHP6 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/31/2015 14:00 Calibration End Date: 07/31/2015 18:02 Calibration ID: 24897

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
1,1-Dichloropropene	0.3926 0.4066	0.3932 0.4288	0.4179 0.4097	0.4260	0.4065	Ave		0.4102			0.0100	3.3		20.0			
Isobutyl alcohol	0.0064 0.0079	0.0060 0.0084	0.0067 0.0082	0.0069	0.0074	Ave		0.0072		*	0.0100	12.0		20.0			
Benzene	1.3108 1.1051	1.1747 1.1573	1.1838 1.0686	1.1862	1.1360	Ave		1.1653			0.5000	6.1		20.0			
1,2-Dichloroethane	0.5170 0.4491	0.4680 0.4788	0.4635 0.4465	0.4749	0.4571	Ave		0.4694			0.1000	4.8		20.0			
n-Heptane	0.3283 0.3166	0.2930 0.3296	0.3187 0.3201	0.3273	0.3009	Ave		0.3168			0.0100	4.2		20.0			
Trichloroethene	0.2495 0.2439	0.2242 0.2580	0.2340 0.2443	0.2514	0.2390	Ave		0.2430			0.2000	4.4		20.0			
Methylcyclohexane	0.4988 0.5022	0.4670 0.5125	0.4962 0.4944	0.5026	0.4718	Ave		0.4932			0.1000	3.2		20.0			
1,2-Dichloropropane	0.3004 0.2740	0.2605 0.2918	0.2603 0.2810	0.2821	0.2771	Ave		0.2784			0.1000	5.0		20.0			
1,4-Dioxane	0.0025 0.0030	0.0022 0.0032	0.0027 0.0030	0.0026	0.0028	Ave		0.0027		*	0.0100	11.1		20.0			
Dibromomethane	0.1697 0.1704	0.1570 0.1809	0.1594 0.1730	0.1722	0.1697	Ave		0.1690			0.0100	4.5		20.0			
Bromodichloromethane	0.2616 0.3321	0.2926 0.3618	0.2967 0.3476	0.3256	0.3231	Ave		0.3176			0.2000	10.2		20.0			
cis-1,3-Dichloropropene	0.2584 0.3913	0.2782 0.4177	0.3074 0.4064	0.3604	0.3717	Ave		0.3489			0.2000	17.3		20.0			
4-Methyl-2-pentanone (MIBK)	0.8987 1.0658	0.9802 1.1445	0.9985 1.0527	1.0544	1.0284	Ave		1.0279			0.1000	7.0		20.0			
Toluene	5.9056 4.7537	5.5995 4.8374	5.4167 4.3396	5.4012	5.0191	Ave		5.1591			0.4000	9.9		20.0			
trans-1,3-Dichloropropene	0.8702 1.4914	1.1099 1.5454	1.1917 1.4764	1.4148	1.3777	Ave		1.3097			0.1000	17.8		20.0			
Ethyl methacrylate	1.0584 1.5306	1.1597 1.6211	1.2934 1.5074	1.4730	1.4851	Ave		1.3911			0.0100	14.3		20.0			
1,1,2-Trichloroethane	1.1649 1.0331	1.0986 1.0808	1.0395 0.9995	1.0976	1.0221	Ave		1.0670			0.1000	5.0		20.0			
Tetrachloroethene	0.9697 0.8437	0.9092 0.8645	0.8932 0.8142	0.9113	0.8341	Ave		0.8800			0.2000	5.8		20.0			
1,3-Dichloropropane	2.1051 1.8922	2.0770 1.9466	1.9733 1.8014	2.0412	1.9340	Ave		1.9713			0.0100	5.1		20.0			
2-Hexanone	0.5961 0.7048	0.6359 0.7303	0.6480 0.6962	0.7009	0.6879	Ave		0.6750			0.1000	6.6		20.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Pittsburgh Job No.: 180-48309-1 Analy Batch No.: 149469

SDG No.:

Instrument ID: CHHP6 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/31/2015 14:00 Calibration End Date: 07/31/2015 18:02 Calibration ID: 24897

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Dibromochloromethane	0.4970 0.7956	0.6594 0.8501	0.6992 0.7965	0.7868	0.7414	Ave		0.7283			0.1000	15.3		20.0			
1,2-Dibromoethane (EDB)	0.9377 0.9584	0.9062 1.0009	0.8845 0.9279	0.9777	0.9601	Ave		0.9442			0.1000	4.0		20.0			
3-Chlorobenzotrifluoride	1.9346 1.5843	1.7960 1.5900	1.7022 1.3868	1.6742	1.5483	Ave		1.6520			0.0100	10.1		20.0			
Chlorobenzene	3.5287 3.0123	3.3662 3.0694	3.2495 2.7949	3.2738	3.0742	Ave		3.1711			0.5000	7.2		20.0			
4-Chlorobenzotrifluoride	1.6752 1.5041	1.6791 1.5135	1.5757 1.3040	1.5621	1.4356	Ave		1.5312			0.0100	8.1		20.0			
1,1,1,2-Tetrachloroethane	0.6900 0.9213	0.8149 0.9909	0.8591 0.9158	0.8859	0.8746	Ave		0.8691			0.0100	10.2		20.0			
Ethylbenzene	1.8948 1.7498	1.7825 1.8007	1.8382 1.6637	1.8404	1.7406	Ave		1.7888			0.1000	4.0		20.0			
m-Xylene & p-Xylene	2.2690 2.1710	2.2783 2.2282	2.2514 2.0794	2.2987	2.1836	Ave		2.2200			0.1000	3.3		20.0			
o-Xylene	2.1401 2.1982	2.2838 2.2768	2.2497 2.0945	2.3260	2.1995	Ave		2.2211			0.3000	3.5		20.0			
Styrene	3.0262 3.3999	3.5063 3.5053	3.5865 3.2169	3.6244	3.4204	Ave		3.4107			0.3000	5.9		20.0			
Bromoform	0.2774 0.4245	0.3854 0.4551	0.3553 0.4390	0.3847	0.3885	Ave		0.3887			0.1000	14.3		20.0			
2-Chlorobenzotrifluoride	1.7789 1.6566	1.8882 1.6800	1.7229 1.4654	1.7518	1.5913	Ave		1.6919			0.0100	7.5		20.0			
Isopropylbenzene	5.2778 5.0660	5.7181 5.1776	5.7365 4.6086	5.7208	5.2098	Ave		5.3144			0.1000	7.4		20.0			
1,1,2,2-Tetrachloroethane	1.4524 1.4044	1.5283 1.4375	1.4123 1.3480	1.4533	1.3845	Ave		1.4276			0.3000	3.8		20.0			
Bromobenzene	0.8149 0.7981	0.7780 0.8354	0.7958 0.7913	0.8100	0.8070	Ave		0.8038			0.0100	2.1		20.0			
trans-1,4-Dichloro-2-butene	0.2183 0.2782	0.2316 0.2872	0.2398 0.2842	0.2451	0.2549	Ave		0.2549			0.0100	10.1		20.0			
1,2,3-Trichloropropane	0.3115 0.3095	0.3103 0.3168	0.2929 0.3057	0.3005	0.2983	Ave		0.3057			0.0100	2.6		20.0			
N-Propylbenzene	0.8326 0.9631	0.8814 0.9609	0.9454 0.9440	0.9506	0.9278	Ave		0.9257			0.0100	4.9		20.0			
2-Chlorotoluene	0.7094 0.7751	0.7465 0.7992	0.7798 0.7755	0.7871	0.7761	Ave		0.7686			0.0100	3.7		20.0			
3-Chlorotoluene	0.7543 0.8420	0.8134 0.8337	0.8056 0.7727	0.8118	0.8241	Ave		0.8072			0.0100	3.7		20.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Pittsburgh Job No.: 180-48309-1 Analy Batch No.: 149469

SDG No.:

Instrument ID: CHHP6 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/31/2015 14:00 Calibration End Date: 07/31/2015 18:02 Calibration ID: 24897

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
1,3,5-Trimethylbenzene	2.7736 3.0025	3.0962 3.0472	3.1690 2.8036	3.1761	3.0091	Ave		3.0097			0.0100	5.0		20.0			
4-Chlorotoluene	0.7667 0.8064	0.7905 0.8463	0.8267 0.8136	0.8328	0.8125	Ave		0.8119			0.0100	3.1		20.0			
tert-Butylbenzene	2.1654 2.4390	2.2766 2.4763	2.4320 2.3179	2.5249	2.3935	Ave		2.3782			0.0100	5.0		20.0			
1,2,4-Trimethylbenzene	2.6641 3.0999	3.1580 3.1389	3.2410 2.8935	3.2855	3.1393	Ave		3.0775			0.0100	6.6		20.0			
3,4-Dichlorobenzotrifluoride	0.9506 0.8837	0.9051 0.8812	0.8433 0.8086	0.8848	0.8177	Ave		0.8719			0.0100	5.4		20.0			
sec-Butylbenzene	3.1858 3.5384	3.7184 3.5357	3.7627 3.2573	3.8203	3.5793	Ave		3.5497			0.0100	6.4		20.0			
1,3-Dichlorobenzene	1.6112 1.5388	1.6196 1.5936	1.5650 1.5066	1.5844	1.5419	Ave		1.5701			0.6000	2.5		20.0			
4-Isopropyltoluene	2.5478 3.0138	2.9539 3.0592	3.1574 2.8450	3.2053	3.0463	Ave		2.9786			0.0100	6.9		20.0			
1,4-Dichlorobenzene	1.6477 1.5662	1.6451 1.6298	1.6095 1.5306	1.6252	1.5856	Ave		1.6050			0.5000	2.6		20.0			
2,4-Dichlorobenzotrifluoride	0.8809 0.9283	0.9010 0.9168	0.8399 0.7625	0.8415	0.8683	Ave		0.8674			0.0100	6.1		20.0			
2,5-Dichlorobenzotrifluoride	1.1148 0.9323	0.9613 0.9470	0.9883 0.9297	0.9952	0.8812	Ave		0.9687			0.0100	7.1		20.0			
n-Butylbenzene	2.7413 3.0098	2.9731 3.0263	3.1192 2.7966	3.1553	2.9714	Ave		2.9741			0.0100	4.8		20.0			
1,2-Dichlorobenzene	1.7344 1.5614	1.6042 1.5872	1.5781 1.4856	1.5970	1.5347	Ave		1.5853			0.4000	4.5		20.0			
1,2-Dibromo-3-Chloropropane	0.1041 0.1673	0.1254 0.1741	0.1287 0.1752	0.1449	0.1432	Ave		0.1454			0.0500	17.6		20.0			
2,4- & 2,5- & 2,6- Dichlorotoluene	1.3659 1.3828	1.4490 1.3691	1.4643 1.2123	1.4309	1.3634	Ave		1.3797			0.0100	5.7		20.0			
2,3- & 3,4- Dichlorotoluene	1.4220 1.5594	1.5913 1.5578	1.5507 1.4014	1.5802	1.5161	Ave		1.5224			0.0100	4.7		20.0			
1,2,4-Trichlorobenzene	1.1743 1.2613	1.2132 1.2999	1.2170 1.2151	1.2351	1.2123	Ave		1.2285			0.2000	3.1		20.0			
Hexachlorobutadiene	0.4483 0.5040	0.4710 0.5079	0.4894 0.4926	0.4879	0.4705	Ave		0.4839			0.0100	4.1		20.0			
Naphthalene	1.9638 2.6901	2.2408 2.7319	2.4855 2.5560	2.6099	2.5577	Ave		2.4795			0.0100	10.3		20.0			
1,2,3-Trichlorobenzene	1.1813 1.1689	1.1348 1.2045	1.1056 1.1331	1.1438	1.1242	Ave		1.1495			0.0100	2.8		20.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Pittsburgh Job No.: 180-48309-1 Analy Batch No.: 149469

SDG No.:

Instrument ID: CHHP6 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/31/2015 14:00 Calibration End Date: 07/31/2015 18:02 Calibration ID: 24897

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
2,4,5-Trichlorotoluene	0.6523 0.8517	0.6908 0.8911	0.7114 0.8098	0.7914	0.7765	Ave		0.7719			0.0100	10.6		20.0			
2,3,6-Trichlorotoluene	0.6747 0.7987	0.6373 0.8256	0.7048 0.7502	0.7418	0.7252	Ave		0.7323			0.0100	8.4		20.0			
Dibromofluoromethane (Surr)	0.2580 0.2278	0.2120 0.2401	0.2284 0.2160	0.2307	0.2293	Ave		0.2303				6.2		20.0			
1,2-Dichloroethane-d4 (Surr)	0.4370 0.3580	0.3544 0.3741	0.3729 0.3410	0.3684	0.3665	Ave		0.3715				7.7		20.0			
Toluene-d8 (Surr)	4.4422 3.7317	4.0733 3.7760	4.2664 3.2298	4.1020	3.9291	Ave		3.9438				9.5		20.0			
4-Bromofluorobenzene (Surr)	2.0841 1.7019	1.7074 1.7446	1.7653 1.5225	1.7965	1.6857	Ave		1.7510				9.0		20.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Pittsburgh Job No.: 180-48309-1 Analy Batch No.: 149469

SDG No.:

Instrument ID: CHHP6 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/31/2015 14:00 Calibration End Date: 07/31/2015 18:02 Calibration ID: 24897

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-149469/14	60731014.D
Level 2	IC 180-149469/4	60731004.D
Level 3	ICIS 180-149469/5	60731005.D
Level 4	IC 180-149469/6	60731006.D
Level 5	IC 180-149469/7	60731007.D
Level 6	IC 180-149469/8	60731008.D
Level 7	IC 180-149469/9	60731009.D
Level 8	IC 180-149469/10	60731010.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Dichlorodifluoromethane	FB	Ave	17276 575043	76046 636192	166146 776950	255750	316945	5.00 175	25.0 200	50.0 250	75.0	100
Chloromethane	FB	Ave	15485 470953	70391 522516	147560 661756	208858	278884	5.00 175	25.0 200	50.0 250	75.0	100
Vinyl chloride	FB	Ave	15792 517410	75541 585198	154423 729853	233901	292173	5.00 175	25.0 200	50.0 250	75.0	100
1,3-Butadiene	FB	Ave	15290 483297	72002 538199	146675 668636	214248	274693	5.00 175	25.0 200	50.0 250	75.0	100
Bromomethane	FB	Ave	9521 248522	42916 263364	89628 +++++	123705	158589	5.00 175	25.0 200	50.0 +++++	75.0	100
Chloroethane	FB	Ave	9922 359701	52119 402907	111283 495382	159781	198857	5.00 175	25.0 200	50.0 250	75.0	100
Dichlorofluoromethane	FB	Ave	24941 819476	126043 899692	250823 1120159	372545	463283	5.00 175	25.0 200	50.0 250	75.0	100
Trichlorofluoromethane	FB	Ave	19389 664854	96092 726249	206141 914267	296881	367084	5.00 175	25.0 200	50.0 250	75.0	100
Ethyl ether	FB	Ave	14586 458021	67458 523507	136903 666334	202583	269465	5.00 175	25.0 200	50.0 250	75.0	100
Acrolein	FB	Ave	28320 68050	35802 76429	43327 88331	52894	54177	100 225	125 250	150 275	175	200
1,1-Dichloroethene	FB	Ave	11872 411177	55817 476887	118856 604031	180424	234083	5.00 175	25.0 200	50.0 250	75.0	100
1,1,2-Trichloro-1,2,2-trifluoroethane	FB	Ave	13209 446711	60462 481169	126375 613669	188852	241359	5.00 175	25.0 200	50.0 250	75.0	100
Acetone	FB	Ave	22203 284563	43121 317270	76252 446823	117975	166807	25.0 350	50.0 400	100 500	150	200
Iodomethane	FB	Ave	14090 566533	76980 655616	159542 830188	243211	318736	5.00 175	25.0 200	50.0 250	75.0	100
Carbon disulfide	FB	Ave	26146 1151644	137245 1330649	294989 1688724	461167	618168	5.00 175	25.0 200	50.0 250	75.0	100

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Pittsburgh Job No.: 180-48309-1 Analy Batch No.: 149469

SDG No.:

Instrument ID: CHHP6 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/31/2015 14:00 Calibration End Date: 07/31/2015 18:02 Calibration ID: 24897

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Allyl chloride	FB	Ave	5562 257112	27346 293887	66228 379717	98190	135273	5.00 175	25.0 200	50.0 250	75.0	100
Methyl acetate	FB	Ave	50033 1680300	233460 1914014	497011 2441128	732698	982363	25.0 875	125 1000	250 1250	375	500
Methylene Chloride	FB	Lin2	30274 527474	89699 611401	163213 760977	238130	313904	5.00 175	25.0 200	50.0 250	75.0	100
tert-Butyl alcohol	TBA	Ave	9874 354063	43837 426462	91997 559063	141735	198055	50.0 1750	250 2000	500 2500	750	1000
Acrylonitrile	FB	Ave	48723 1745686	231943 1961872	501701 2461613	737397	994141	50.0 1750	250 2000	500 2500	750	1000
trans-1,2-Dichloroethene	FB	Ave	13191 479327	66744 548086	139824 687783	208665	267617	5.00 175	25.0 200	50.0 250	75.0	100
Methyl tert-butyl ether	FB	Ave	41079 1455878	186303 1687770	394698 2105039	621185	825760	5.00 175	25.0 200	50.0 250	75.0	100
Hexane	FB	Ave	19223 669795	85113 736641	186977 945322	278592	352983	5.00 175	25.0 200	50.0 250	75.0	100
1,1-Dichloroethane	FB	Ave	23168 861981	118950 980644	251887 1227440	371113	490563	5.00 175	25.0 200	50.0 250	75.0	100
Vinyl acetate	FB	Ave	17413 744628	80307 867464	186047 1104555	295714	412541	5.00 175	25.0 200	50.0 250	75.0	100
2,2-Dichloropropane	FB	Ave	9613 484574	53806 535345	122189 694588	186450	250901	5.00 175	25.0 200	50.0 250	75.0	100
cis-1,2-Dichloroethene	FB	Ave	15010 520777	69383 595718	151575 751398	223081	295290	5.00 175	25.0 200	50.0 250	75.0	100
2-Butanone (MEK)	FB	Ave	26408 412307	51510 470276	108037 588377	180292	231667	25.0 350	50.0 400	100 500	150	200
Bromochloromethane	FB	Ave	6120 209995	28403 240962	58005 308059	88252	118290	5.00 175	25.0 200	50.0 250	75.0	100
Tetrahydrofuran	FB	Ave	8204 277489	31436 305718	70787 413888	117489	154776	10.0 350	50.0 400	100 500	150	200
Chloroform	FB	Ave	23924 847765	118313 959266	250393 1195678	370042	484585	5.00 175	25.0 200	50.0 250	75.0	100
1,1,1-Trichloroethane	FB	Ave	15055 659562	79977 756837	182973 957300	278390	366376	5.00 175	25.0 200	50.0 250	75.0	100
Cyclohexane	FB	Ave	22688 834057	103455 919827	237539 1159567	359010	445084	5.00 175	25.0 200	50.0 250	75.0	100
Carbon tetrachloride	FB	Ave	10435 479558	57375 536127	126096 690480	195436	252588	5.00 175	25.0 200	50.0 250	75.0	100
1,1-Dichloropropene	FB	Ave	17924 675711	91039 765806	202951 968671	301319	392146	5.00 175	25.0 200	50.0 250	75.0	100
Isobutyl alcohol	FB	Ave	7317 326401	34707 375937	81470 482886	122452	178080	125 4375	625 5000	1250 6250	1875	2500

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Pittsburgh Job No.: 180-48309-1 Analy Batch No.: 149469

SDG No.:

Instrument ID: CHHP6 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/31/2015 14:00 Calibration End Date: 07/31/2015 18:02 Calibration ID: 24897

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Benzene	FB	Ave	59844 1836424	271972 2066671	574901 2526807	839117	1096030	5.00 175	25.0 200	50.0 250	75.0	100
1,2-Dichloroethane	FB	Ave	23604 746328	108353 855052	225116 1055651	335915	440984	5.00 175	25.0 200	50.0 250	75.0	100
n-Heptane	FB	Ave	14990 526126	67835 588643	154761 756814	231524	290327	5.00 175	25.0 200	50.0 250	75.0	100
Trichloroethene	FB	Ave	11389 405251	51907 460676	113666 577638	177868	230554	5.00 175	25.0 200	50.0 250	75.0	100
Methylcyclohexane	FB	Ave	22772 834543	108113 915285	240977 1169092	355558	455180	5.00 175	25.0 200	50.0 250	75.0	100
1,2-Dichloropropane	FB	Ave	13712 455391	60301 521174	126414 664355	199527	267345	5.00 175	25.0 200	50.0 250	75.0	100
1,4-Dioxane	FB	Ave	2321 98136	10219 114196	26388 139772	36545	54577	100 3500	500 4000	1000 5000	1500	2000
Dibromomethane	FB	Ave	7749 283101	36346 323060	77394 409028	121844	163719	5.00 175	25.0 200	50.0 250	75.0	100
Bromodichloromethane	FB	Ave	11941 551929	67754 646107	144075 821950	230314	311750	5.00 175	25.0 200	50.0 250	75.0	100
cis-1,3-Dichloropropene	FB	Ave	11797 650196	64404 745866	149301 960857	254907	358605	5.00 175	25.0 200	50.0 250	75.0	100
4-Methyl-2-pentanone (MIBK)	CBZ	Ave	42150 808342	90891 947711	208546 1194590	330779	452681	25.0 350	50.0 400	100 500	150	200
Toluene	CBZ	Ave	55394 1802740	259618 2002822	565645 2462377	847209	1104648	5.00 175	25.0 200	50.0 250	75.0	100
trans-1,3-Dichloropropene	CBZ	Ave	8162 565592	51458 639831	124444 837722	221914	303226	5.00 175	25.0 200	50.0 250	75.0	100
Ethyl methacrylate	CBZ	Ave	9928 580427	53768 671187	135064 855316	231048	326852	5.00 175	25.0 200	50.0 250	75.0	100
1,1,2-Trichloroethane	CBZ	Ave	10927 391776	50938 447467	108552 567107	172158	224945	5.00 175	25.0 200	50.0 250	75.0	100
Tetrachloroethene	CBZ	Ave	9096 319955	42156 357911	93269 461983	142949	183568	5.00 175	25.0 200	50.0 250	75.0	100
1,3-Dichloropropane	CBZ	Ave	19746 717566	96298 805963	206060 1022129	320167	425660	5.00 175	25.0 200	50.0 250	75.0	100
2-Hexanone	CBZ	Ave	27957 534519	58962 604727	135329 790089	219895	302805	25.0 350	50.0 400	100 500	150	200
Dibromochloromethane	CBZ	Ave	4662 301710	30573 351983	73014 451973	123420	163175	5.00 175	25.0 200	50.0 250	75.0	100
1,2-Dibromoethane (EDB)	CBZ	Ave	8796 363449	42016 414395	92363 526477	153351	211303	5.00 175	25.0 200	50.0 250	75.0	100
3-Chlorobenzotrifluoride	CBZ	Ave	18146 600793	83271 658293	177755 786880	262608	340769	5.00 175	25.0 200	50.0 250	75.0	100

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Pittsburgh Job No.: 180-48309-1 Analy Batch No.: 149469

SDG No.:

Instrument ID: CHHP6 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/31/2015 14:00 Calibration End Date: 07/31/2015 18:02 Calibration ID: 24897

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Chlorobenzene	CBZ	Ave	33099 1142353	156070 1270819	339330 1585885	513514	676590	5.00 175	25.0 200	50.0 250	75.0	100
4-Chlorobenzotrifluoride	CBZ	Ave	15713 570403	77852 626628	164547 739908	245021	315960	5.00 175	25.0 200	50.0 250	75.0	100
1,1,1,2-Tetrachloroethane	CBZ	Ave	6472 349368	37781 410261	89710 519653	138964	192497	5.00 175	25.0 200	50.0 250	75.0	100
Ethylbenzene	CBZ	Ave	17773 663577	82647 745552	191951 943999	288675	383099	5.00 175	25.0 200	50.0 250	75.0	100
m-Xylene & p-Xylene	CBZ	Ave	21283 823294	105633 922542	235109 1179895	360561	480587	5.00 175	25.0 200	50.0 250	75.0	100
o-Xylene	CBZ	Ave	20074 833629	105888 942660	234926 1188451	364838	484093	5.00 175	25.0 200	50.0 250	75.0	100
Styrene	CBZ	Ave	28385 1289309	162570 1451301	374525 1825312	568513	752806	5.00 175	25.0 200	50.0 250	75.0	100
Bromoform	CBZ	Ave	2602 160966	17870 188413	37102 249108	60348	85498	5.00 175	25.0 200	50.0 250	75.0	100
2-Chlorobenzotrifluoride	CBZ	Ave	16686 628216	87545 695569	179913 831476	274773	350232	5.00 175	25.0 200	50.0 250	75.0	100
Isopropylbenzene	CBZ	Ave	49505 1921153	265117 2143689	599038 2614965	897341	1146617	5.00 175	25.0 200	50.0 250	75.0	100
1,1,2,2-Tetrachloroethane	CBZ	Ave	13623 532593	70858 595171	147479 764885	227964	304710	5.00 175	25.0 200	50.0 250	75.0	100
Bromobenzene	DCB	Ave	12814 459843	61847 533334	136094 665597	203181	276525	5.00 175	25.0 200	50.0 250	75.0	100
trans-1,4-Dichloro-2-butene	DCB	Ave	3433 160304	18413 183338	41001 239026	61474	87362	5.00 175	25.0 200	50.0 250	75.0	100
1,2,3-Trichloropropane	DCB	Ave	4898 178317	24668 202262	50085 257089	75371	102213	5.00 175	25.0 200	50.0 250	75.0	100
N-Propylbenzene	DCB	Ave	13092 554932	70063 613443	161671 793964	238465	317924	5.00 175	25.0 200	50.0 250	75.0	100
2-Chlorotoluene	DCB	Ave	11155 446590	59338 510216	133354 652311	197431	265955	5.00 175	25.0 200	50.0 250	75.0	100
3-Chlorotoluene	DCB	Ave	11861 485130	64658 532252	137766 649907	203636	282386	5.00 175	25.0 200	50.0 250	75.0	100
1,3,5-Trimethylbenzene	DCB	Ave	43612 1730016	246129 1945327	541915 2358116	796704	1031152	5.00 175	25.0 200	50.0 250	75.0	100
4-Chlorotoluene	DCB	Ave	12056 464650	62837 540303	141377 684319	208897	278435	5.00 175	25.0 200	50.0 250	75.0	100
tert-Butylbenzene	DCB	Ave	34048 1405341	180978 1580824	415895 1949627	633351	820194	5.00 175	25.0 200	50.0 250	75.0	100
1,2,4-Trimethylbenzene	DCB	Ave	41890 1786151	251042 2003823	554224 2433681	824147	1075766	5.00 175	25.0 200	50.0 250	75.0	100

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Pittsburgh Job No.: 180-48309-1 Analy Batch No.: 149469

SDG No.:

Instrument ID: CHHP6 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/31/2015 14:00 Calibration End Date: 07/31/2015 18:02 Calibration ID: 24897

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
3,4-Dichlorobenzotrifluoride	DCB	Ave	14947 509173	71946 562570	144215 680073	221955	280215	5.00 175	25.0 200	50.0 250	75.0	100
sec-Butylbenzene	DCB	Ave	50094 2038837	295586 2257148	643438 2739728	958306	1226548	5.00 175	25.0 200	50.0 250	75.0	100
1,3-Dichlorobenzene	DCB	Ave	25334 886632	128745 1017363	267626 1267194	397446	528372	5.00 175	25.0 200	50.0 250	75.0	100
4-Isopropyltoluene	DCB	Ave	40061 1736569	234813 1952987	539941 2392925	804039	1043904	5.00 175	25.0 200	50.0 250	75.0	100
1,4-Dichlorobenzene	DCB	Ave	25908 902441	130776 1040432	275229 1287354	407678	543357	5.00 175	25.0 200	50.0 250	75.0	100
2,4-Dichlorobenzotrifluoride	DCB	Ave	13852 534909	71623 585295	143623 641375	211084	297534	5.00 175	25.0 200	50.0 250	75.0	100
2,5-Dichlorobenzotrifluoride	DCB	Ave	17529 537191	76420 604585	169006 781945	249633	301973	5.00 175	25.0 200	50.0 250	75.0	100
n-Butylbenzene	DCB	Ave	43104 1734264	236342 1931969	533401 2352259	791496	1018212	5.00 175	25.0 200	50.0 250	75.0	100
1,2-Dichlorobenzene	DCB	Ave	27271 899668	127520 1013269	269873 1249514	400593	525918	5.00 175	25.0 200	50.0 250	75.0	100
1,2-Dibromo-3-Chloropropane	DCB	Ave	1637 96376	9971 111156	22010 147337	36339	49062	5.00 175	25.0 200	50.0 250	75.0	100
2,4- & 2,5- & 2,6- Dichlorotoluene	DCB	Ave	64430 2390336	345570 2621988	751227 3058923	1076776	1401616	15.0 525	75.0 600	150 750	225	300
2,3- & 3,4- Dichlorotoluene	DCB	Ave	44720 1797097	252992 1989024	530353 2357462	792789	1039069	10.0 350	50.0 400	100 500	150	200
1,2,4-Trichlorobenzene	DCB	Ave	18465 726756	96442 829845	208112 1022001	309817	415442	5.00 175	25.0 200	50.0 250	75.0	100
Hexachlorobutadiene	DCB	Ave	7049 290426	37440 324236	83692 414314	122376	161228	5.00 175	25.0 200	50.0 250	75.0	100
Naphthalene	DCB	Ave	30879 1550041	178131 1744010	425036 2149836	654694	876449	5.00 175	25.0 200	50.0 250	75.0	100
1,2,3-Trichlorobenzene	DCB	Ave	18575 673533	90206 768952	189066 953082	286920	385220	5.00 175	25.0 200	50.0 250	75.0	100
2,4,5-Trichlorotoluene	DCB	Ave	10257 490754	54916 568870	121646 681135	198517	266093	5.00 175	25.0 200	50.0 250	75.0	100
2,3,6-Trichlorotoluene	DCB	Ave	10609 460224	50658 527070	120523 630961	186087	248497	5.00 175	25.0 200	50.0 250	75.0	100
Dibromofluoromethane (Surr)	FB	Ave	11777 378487	49079 428779	110929 510673	163209	221245	5.00 175	25.0 200	50.0 250	75.0	100
1,2-Dichloroethane-d4 (Surr)	FB	Ave	19952 595019	82044 668015	181120 806396	260570	353626	5.00 175	25.0 200	50.0 250	75.0	100
Toluene-d8 (Surr)	CBZ	Ave	41667 1415164	188855 1563368	445521 1832665	643420	864751	5.00 175	25.0 200	50.0 250	75.0	100

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Pittsburgh Job No.: 180-48309-1 Analy Batch No.: 149469

SDG No.:

Instrument ID: CHHP6 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/31/2015 14:00 Calibration End Date: 07/31/2015 18:02 Calibration ID: 24897

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
4-Bromofluorobenzene (Surr)	CBZ	Ave	19549 645419	79163 722308	184340 863895	281797	371000	5.00 175	25.0 200	50.0 250	75.0	100

Curve Type Legend:

Ave = Average ISTD
Lin2 = Linear 1/conc^2 ISTD

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: TestAmerica Pittsburgh Job No.: 180-48309-1 Analy Batch No.: 149469

SDG No.:

Instrument ID: CHHP6 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/31/2015 14:00 Calibration End Date: 07/31/2015 18:02 Calibration ID: 24897

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-149469/14	60731014.D
Level 2	IC 180-149469/4	60731004.D
Level 3	ICIS 180-149469/5	60731005.D
Level 4	IC 180-149469/6	60731006.D
Level 5	IC 180-149469/7	60731007.D
Level 6	IC 180-149469/8	60731008.D
Level 7	IC 180-149469/9	60731009.D
Level 8	IC 180-149469/10	60731010.D

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3	LVL 4	LVL 5	LVL 6
Methylene Chloride	0.2 6.3	1.2 0.3	-4.0	-0.1	-1.9	-2.0	40 40	40 40	40	40	40	40

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150731-7999.b\60731004.D
Lims ID: IC VSTD5
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 31-Jul-2015 14:00:30 ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC VSTD5
Misc. Info.: 180-0007999-004
Operator ID: 001562 Instrument ID: CHHP6
Sublist: chrom-MSVOA_LL_CHHP6*sub5

Method: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150731-7999.b\MSVOA_LL_CHHP6.m
Limit Group: VOA 8260C ICAL
Last Update: 03-Aug-2015 12:15:33 Calib Date: 31-Jul-2015 18:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150731-7999.b\60731014.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK049

First Level Reviewer: fergusond Date: 31-Jul-2015 16:26:45

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.245	4.248	-0.003	91	159479	1000.0	1000.0	
* 2 Fluorobenzene (IS)	96	7.286	7.284	0.002	98	463046	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.395	10.398	-0.003	92	92729	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.743	12.747	-0.004	97	158987	50.0	50.0	
$ 5 Dibromofluoromethane (Surr	113	6.556	6.554	0.002	68	49079	25.0	23.0	
$ 6 1,2-Dichloroethane-d4 (Sur	65	6.934	6.931	0.003	54	82044	25.0	23.8	
$ 7 Toluene-d8 (Surr)	98	8.941	8.938	0.003	93	188855	25.0	25.8	
$ 8 4-Bromofluorobenzene (Surr	95	11.587	11.585	0.002	81	79163	25.0	24.4	
11 Dichlorodifluoromethane	85	1.611	1.608	0.002	99	76046	25.0	23.7	
12 Chloromethane	50	1.757	1.754	0.003	100	70391	25.0	25.5	
13 Vinyl chloride	62	1.884	1.888	-0.004	98	75541	25.0	25.4	
14 Butadiene	39	1.933	1.930	0.003	92	72002	25.0	25.8	
15 Bromomethane	94	2.231	2.228	0.003	91	42916	25.0	26.7	M
16 Chloroethane	64	2.377	2.368	0.009	98	52119	25.0	25.7	
17 Dichlorofluoromethane	67	2.651	2.648	0.003	97	126043	25.0	26.7	
18 Trichlorofluoromethane	101	2.669	2.660	0.009	85	96092	25.0	25.5	
20 Ethyl ether	59	3.046	3.049	-0.003	88	67458	25.0	25.2	
21 Acrolein	56	3.223	3.220	0.003	97	35802	125.0	122.8	
22 1,1-Dichloroethene	96	3.338	3.341	-0.003	95	55817	25.0	23.9	
23 1,1,2-Trichloro-1,2,2-trif	101	3.393	3.390	0.003	94	60462	25.0	24.6	
24 Acetone	43	3.429	3.421	0.008	99	43121	50.0	52.6	
25 Iodomethane	142	3.539	3.536	0.003	97	76980	25.0	24.6	
26 Carbon disulfide	76	3.636	3.627	0.009	100	137245	25.0	22.7	
29 3-Chloro-1-propene	76	3.922	3.919	0.003	61	27346	25.0	20.8	
30 Methyl acetate	43	3.934	3.926	0.008	97	233460	125.0	121.5	
31 Methylene Chloride	84	4.135	4.132	0.003	92	89699	25.0	25.3	
32 2-Methyl-2-propanol	59	4.366	4.370	-0.004	93	43837	250.0	244.3	
33 Acrylonitrile	53	4.500	4.503	-0.003	100	231943	250.0	239.5	
34 trans-1,2-Dichloroethene	96	4.555	4.564	-0.009	95	66744	25.0	24.8	
35 Methyl tert-butyl ether	73	4.573	4.576	-0.003	97	186303	25.0	23.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
36 Hexane	57	4.987	4.990	-0.003	94	85113	25.0	23.4	
37 1,1-Dichloroethane	63	5.206	5.197	0.009	97	118950	25.0	24.7	
38 Vinyl acetate	43	5.236	5.240	-0.004	97	80307	25.0	20.7	
43 cis-1,2-Dichloroethene	96	5.948	5.939	0.009	84	69383	25.0	23.7	
44 2-Butanone (MEK)	43	5.948	5.945	0.003	56	51510	50.0	46.1	
42 2,2-Dichloropropane	77	5.942	5.945	-0.003	59	53806	25.0	22.1	
48 Chlorobromomethane	128	6.228	6.231	-0.003	94	28403	25.0	24.2	
49 Tetrahydrofuran	42	6.240	6.249	-0.009	81	31436	50.0	41.7	
50 Chloroform	83	6.368	6.371	-0.003	93	118313	25.0	24.8	
51 1,1,1-Trichloroethane	97	6.538	6.541	-0.003	96	79977	25.0	22.6	
52 Cyclohexane	56	6.611	6.620	-0.009	93	103455	25.0	22.9	
53 Carbon tetrachloride	117	6.708	6.718	-0.010	98	57375	25.0	23.0	
54 1,1-Dichloropropene	75	6.727	6.724	0.003	94	91039	25.0	24.0	
55 Isobutyl alcohol	41	6.903	6.900	0.003	95	34707	625.0	518.1	
56 Benzene	78	6.940	6.943	-0.003	97	271972	25.0	25.2	
57 1,2-Dichloroethane	62	7.019	7.016	0.003	98	108353	25.0	24.9	
59 n-Heptane	43	7.311	7.308	0.003	89	67835	25.0	23.1	
61 Trichloroethene	130	7.676	7.679	-0.003	92	51907	25.0	23.1	
63 Methylcyclohexane	83	7.925	7.922	0.003	91	108113	25.0	23.7	
64 1,2-Dichloropropane	63	7.949	7.953	-0.004	95	60301	25.0	23.4	
65 1,4-Dioxane	88	8.029	8.032	-0.003	40	10219	500.0	401.6	M
67 Dibromomethane	93	8.035	8.038	-0.003	91	36346	25.0	23.2	
68 Dichlorobromomethane	83	8.235	8.227	0.008	98	67754	25.0	23.0	
71 cis-1,3-Dichloropropene	75	8.673	8.677	-0.004	92	64404	25.0	19.9	
72 4-Methyl-2-pentanone (MIBK	43	8.826	8.823	0.003	95	90891	50.0	47.7	
73 Toluene	91	9.008	9.011	-0.003	97	259618	25.0	27.1	
74 trans-1,3-Dichloropropene	75	9.257	9.255	0.002	97	51458	25.0	21.2	
75 Ethyl methacrylate	69	9.312	9.315	-0.003	86	53768	25.0	20.8	
76 1,1,2-Trichloroethane	97	9.446	9.449	-0.003	96	50938	25.0	25.7	
77 Tetrachloroethene	164	9.525	9.522	0.003	92	42156	25.0	25.8	
78 1,3-Dichloropropane	76	9.604	9.607	-0.003	92	96298	25.0	26.3	
79 2-Hexanone	43	9.659	9.656	0.003	97	58962	50.0	47.1	
81 Chlorodibromomethane	129	9.817	9.826	-0.009	92	30573	25.0	22.6	
82 Ethylene Dibromide	107	9.939	9.942	-0.003	97	42016	25.0	24.0	
83 3-Chlorobenzotrifluoride	180	10.395	10.392	0.003	89	83271	25.0	27.2	
84 Chlorobenzene	112	10.425	10.429	-0.004	91	156070	25.0	26.5	
85 4-Chlorobenzotrifluoride	180	10.480	10.483	-0.003	95	77852	25.0	27.4	
86 1,1,1,2-Tetrachloroethane	131	10.523	10.520	0.003	87	37781	25.0	23.4	
87 Ethylbenzene	106	10.529	10.526	0.003	99	82647	25.0	24.9	
88 m-Xylene & p-Xylene	106	10.657	10.660	-0.003	99	105633	25.0	25.7	
89 o-Xylene	106	11.040	11.043	-0.003	98	105888	25.0	25.7	
90 Styrene	104	11.058	11.061	-0.003	94	162570	25.0	25.7	
91 Bromoform	173	11.241	11.244	-0.003	94	17870	25.0	24.8	
92 2-Chlorobenzotrifluoride	180	11.308	11.305	0.003	95	87545	25.0	27.9	
93 Isopropylbenzene	105	11.405	11.408	-0.003	97	265117	25.0	26.9	
96 1,1,2,2-Tetrachloroethane	83	11.715	11.712	0.003	94	70858	25.0	26.8	
95 Bromobenzene	156	11.721	11.725	-0.004	97	61847	25.0	24.2	
97 trans-1,4-Dichloro-2-buten	53	11.752	11.749	0.003	66	18413	25.0	22.7	
98 1,2,3-Trichloropropane	110	11.770	11.767	0.003	86	24668	25.0	25.4	
99 N-Propylbenzene	120	11.825	11.828	-0.003	99	70063	25.0	23.8	
100 2-Chlorotoluene	126	11.916	11.913	0.003	94	59338	25.0	24.3	
101 3-Chlorotoluene	126	11.977	11.980	-0.003	97	64658	25.0	25.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
102 1,3,5-Trimethylbenzene	105	12.007	12.010	-0.003	92	246129	25.0	25.7	
103 4-Chlorotoluene	126	12.038	12.041	-0.003	98	62837	25.0	24.3	
104 tert-Butylbenzene	119	12.323	12.321	0.002	90	180978	25.0	23.9	
106 1,2,4-Trimethylbenzene	105	12.384	12.382	0.002	97	251042	25.0	25.7	
107 1,2-dichloro-4-(trifluorom	214	12.421	12.418	0.003	95	71946	25.0	26.0	
108 sec-Butylbenzene	105	12.549	12.546	0.003	96	295586	25.0	26.2	
109 1,3-Dichlorobenzene	146	12.664	12.667	-0.003	93	128745	25.0	25.8	
110 4-Isopropyltoluene	119	12.707	12.704	0.003	96	234813	25.0	24.8	
111 1,4-Dichlorobenzene	146	12.768	12.771	-0.003	89	130776	25.0	25.6	
113 2,4-Dichloro-1-(triflourom	214	12.792	12.789	0.003	94	71623	25.0	26.0	
114 2,5-Dichlorobenzotrifluori	214	12.828	12.832	-0.004	96	76420	25.0	24.8	
116 n-Butylbenzene	91	13.114	13.112	0.002	98	236342	25.0	25.0	
117 1,2-Dichlorobenzene	146	13.120	13.124	-0.004	91	127520	25.0	25.3	
118 1,2-Dibromo-3-Chloropropan	75	13.911	13.921	-0.010	62	9971	25.0	21.6	
119 2,4- & 2,5- & 2,6- Dichlor	125	14.063	14.061	0.002	98	345570	75.0	78.8	
121 2,3- & 3,4- Dichlorotoluen	125	14.471	14.474	-0.003	99	252992	50.0	52.3	
122 1,2,4-Trichlorobenzene	180	14.745	14.736	0.009	92	96442	25.0	24.7	
123 Hexachlorobutadiene	225	14.891	14.888	0.003	96	37440	25.0	24.3	
124 Naphthalene	128	15.006	15.004	0.002	98	178131	25.0	22.6	
125 1,2,3-Trichlorobenzene	180	15.231	15.229	0.002	95	90206	25.0	24.7	
126 2,4,5-Trichlorotoluene	159	16.004	16.007	-0.003	0	54916	25.0	22.4	
127 2,3,6-Trichlorotoluene	159	16.107	16.111	-0.004	91	50658	25.0	21.8	
146 3,4-Dichlorotoluene	1		0.000				ND	ND	
147 2,6-Dichlorotoluene	1		0.000				ND	ND	
143 2,5-Dichlorotoluene	1		0.000				ND	ND	
145 2,3-Dichlorotoluene	1		0.000				ND	ND	
144 2,4-Dichlorotoluene	1		0.000				ND	ND	
S 130 1,2-Dichloroethene, Total	96				0		50.0	48.5	
S 131 Xylenes, Total	106				0		50.0	51.4	
S 132 1,3-Dichloropropene, Total	1				0		50.0	41.1	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

VOA8260SURR_00039	Amount Added:	1.00	Units: uL	
voaWket1Reste_00001	Amount Added:	1.00	Units: uL	
voaWeemix1Res_00001	Amount Added:	1.00	Units: uL	
voaWVA1st Res_00003	Amount Added:	1.00	Units: uL	
VOA8260VOAPRI_00134	Amount Added:	1.00	Units: uL	
voaWAcro2nd R_00006	Amount Added:	5.00	Units: uL	
VOA8260INT_00039	Amount Added:	2.00	Units: uL	Run Reagent

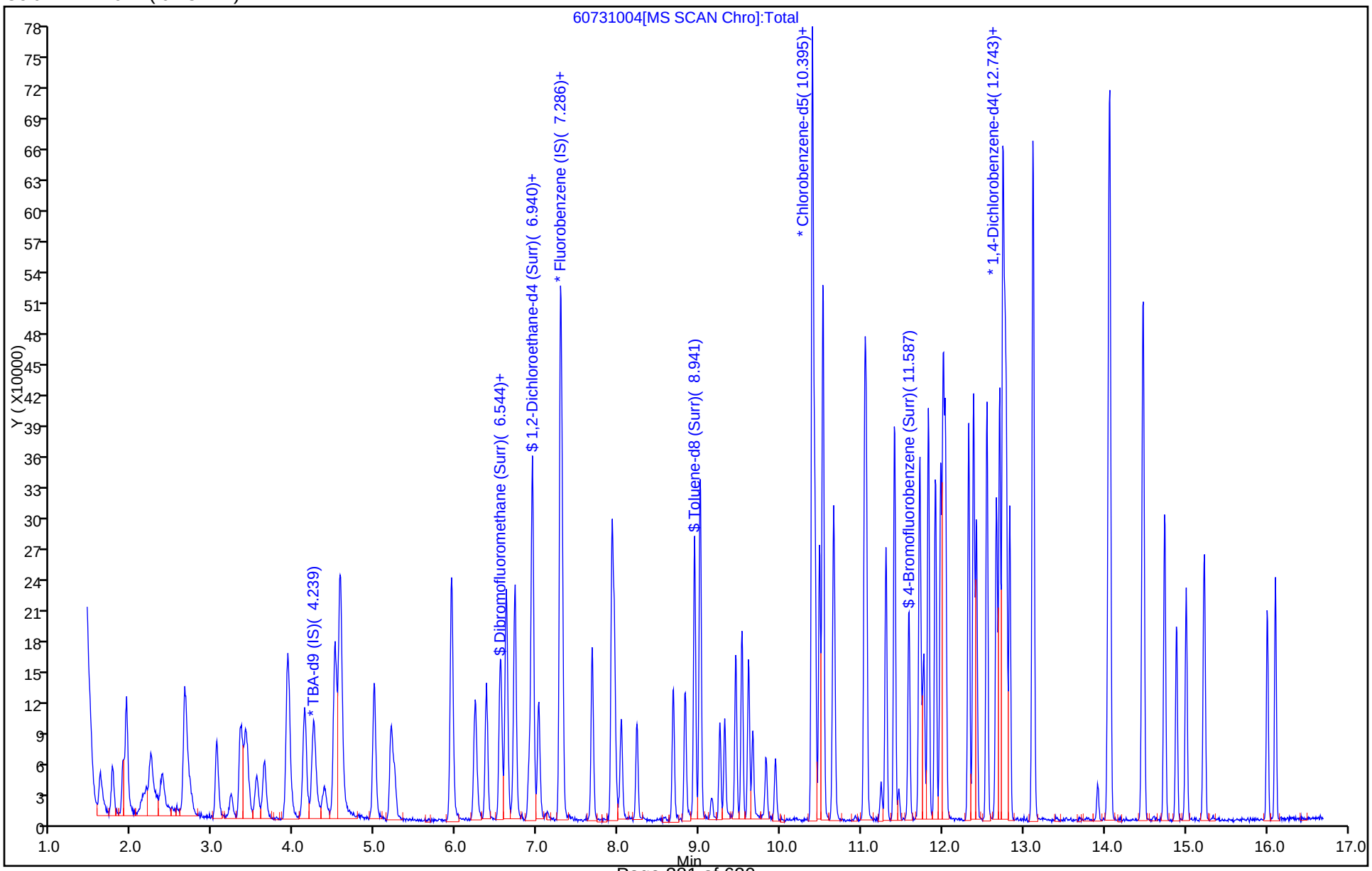
Report Date: 03-Aug-2015 12:15:35 Chrom Revision: 2.2 09-Jul-2015 10:16:20

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150731-7999.b\60731004.D

Injection Date:	31-Jul-2015 14:00:30	Instrument ID:	CHHP6	Operator ID:	001562
Lims ID:	IC VSTD5			Worklist Smp#:	4
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	MSVOA_LL_CHHP6	Limit Group:	VOA 8260C ICAL		

Column: DB-624 (0.18 mm)



Manual Integration/User Assign Peak Report

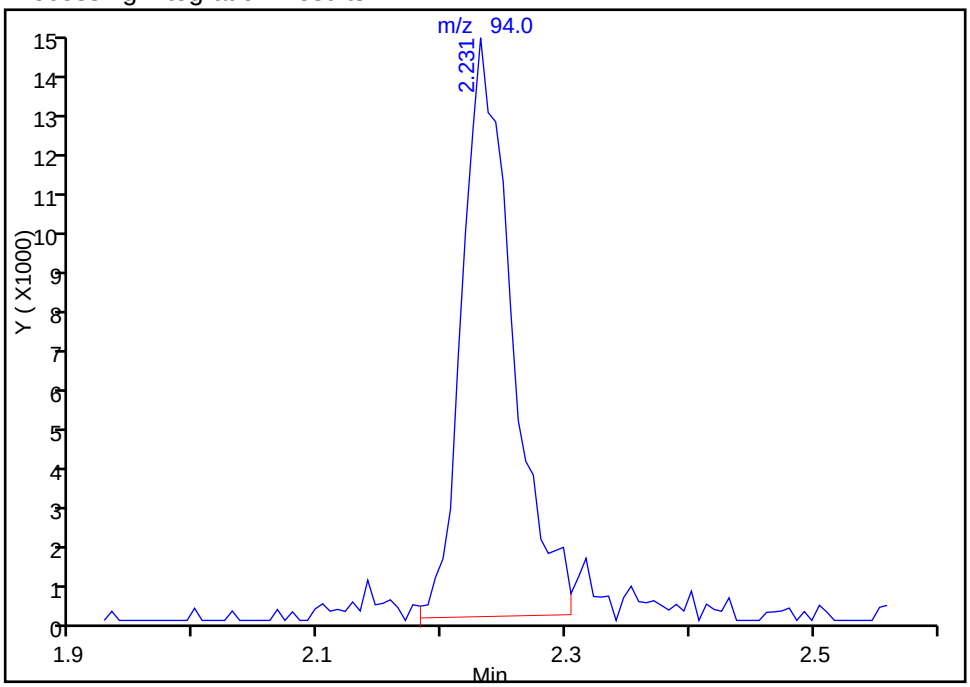
TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHHP6\20150731-7999.b\60731004.D				
Injection Date:	31-Jul-2015 14:00:30	Instrument ID:	CHHP6		
Lims ID:	IC VSTD5				
Client ID:					
Operator ID:	001562	ALS Bottle#:	4	Worklist Smp#:	4
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVOA_LL_CHHP6	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

15 Bromomethane, CAS: 74-83-9

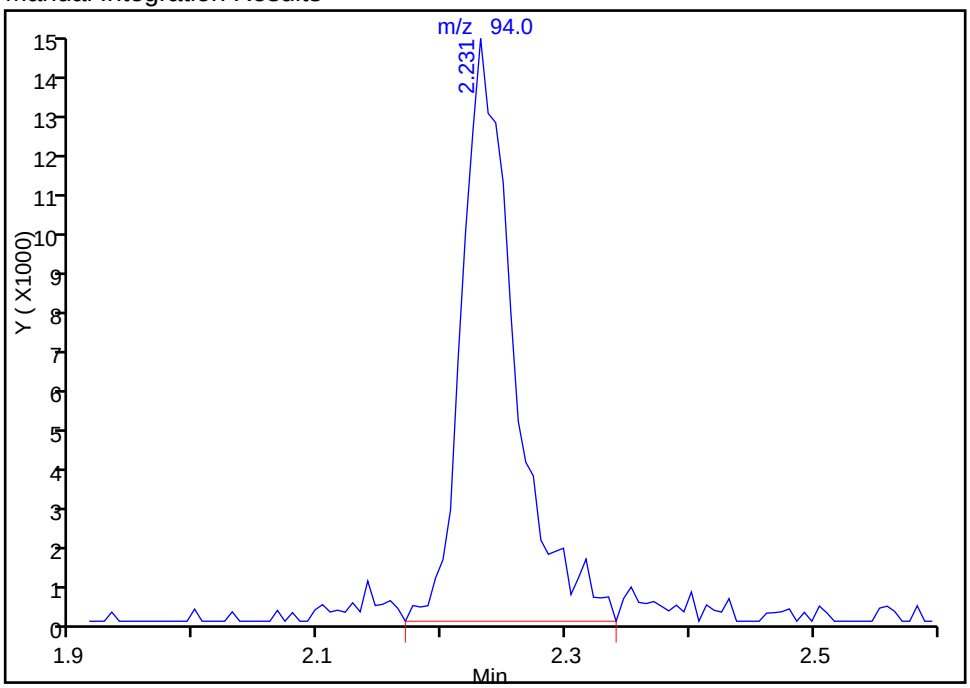
Processing Integration Results

RT: 2.23
Area: 40394
Amount: 23.319863
Amount Units: ng



Manual Integration Results

RT: 2.23
Area: 42916
Amount: 26.704234
Amount Units: ng



Reviewer: fergusond, 03-Aug-2015 10:46:01
Audit Action: Manually Integrated
Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

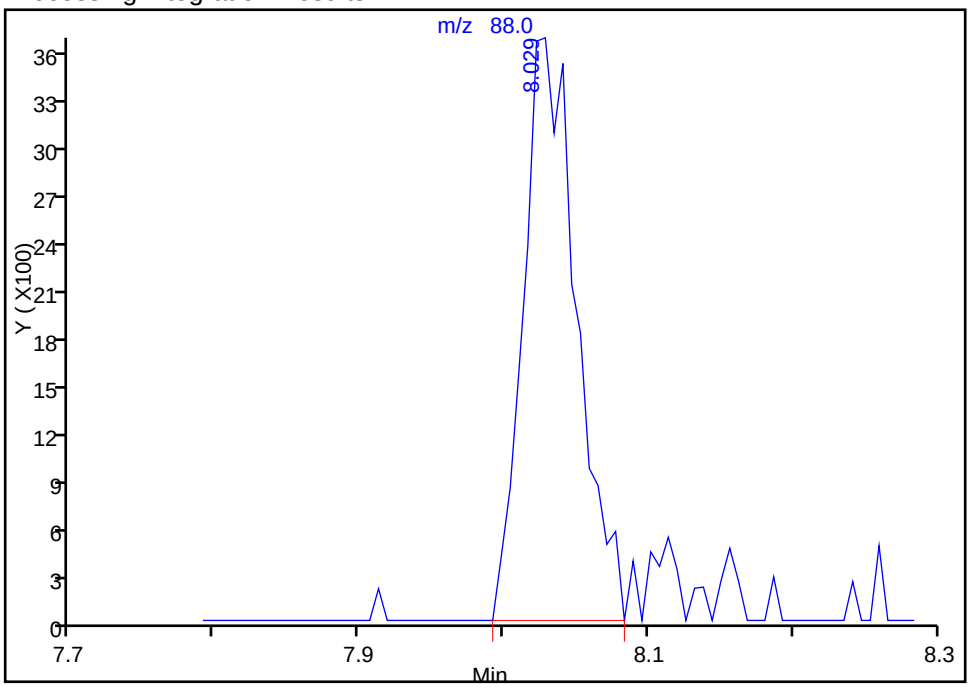
TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150731-7999.b\60731004.D
Injection Date: 31-Jul-2015 14:00:30 Instrument ID: CHHP6
Lims ID: IC VSTD5
Client ID:
Operator ID: 001562 ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

65 1,4-Dioxane, CAS: 123-91-1

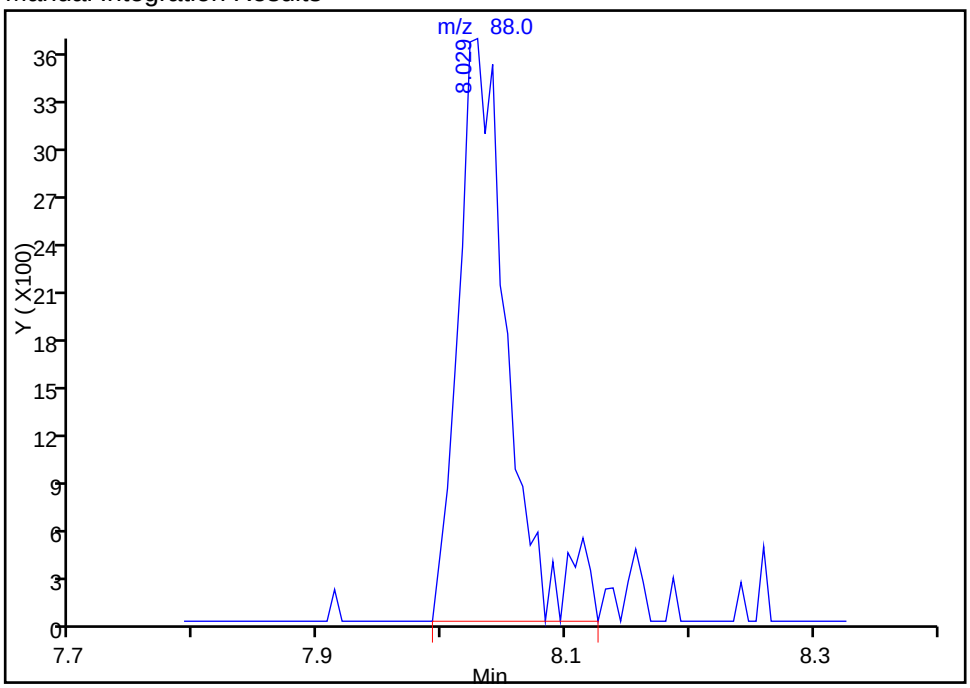
Processing Integration Results

RT: 8.03
Area: 9488
Amount: 365.3313
Amount Units: ng



Manual Integration Results

RT: 8.03
Area: 10219
Amount: 401.5715
Amount Units: ng



Reviewer: fergusond, 03-Aug-2015 10:46:01
Audit Action: Manually Integrated
Audit Reason: Incomplete Integration

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150731-7999.b\60731005.D
Lims ID: ICIS VSTD10
Client ID:
Sample Type: ICIS Calib Level: 3
Inject. Date: 31-Jul-2015 14:24:30 ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: ICIS VSTD10
Misc. Info.: 180-0007999-005
Operator ID: 001562 Instrument ID: CHHP6
Sublist: chrom-MSVOA_LL_CHHP6*sub5

Method: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150731-7999.b\MSVOA_LL_CHHP6.m
Limit Group: VOA 8260C ICAL
Last Update: 03-Aug-2015 12:56:50 Calib Date: 31-Jul-2015 18:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150731-7999.b\60731014.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK049

First Level Reviewer: fergusond Date: 03-Aug-2015 12:15:08

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.248	4.248	0.000	92	161009	1000.0	1000.0	
* 2 Fluorobenzene (IS)	96	7.284	7.284	0.000	98	485657	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.398	10.398	0.000	91	104426	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.747	12.747	0.000	94	171006	50.0	50.0	
$ 5 Dibromofluoromethane (Surr	113	6.554	6.554	0.000	92	110929	50.0	49.6	
$ 6 1,2-Dichloroethane-d4 (Sur	65	6.931	6.931	0.000	71	181120	50.0	50.2	
$ 7 Toluene-d8 (Surr)	98	8.938	8.938	0.000	94	445521	50.0	54.1	
$ 8 4-Bromofluorobenzene (Surr	95	11.585	11.585	0.000	80	184340	50.0	50.4	
11 Dichlorodifluoromethane	85	1.608	1.608	0.000	99	166146	50.0	49.4	
12 Chloromethane	50	1.754	1.754	0.000	100	147560	50.0	50.9	
13 Vinyl chloride	62	1.888	1.888	0.000	99	154423	50.0	49.5	
14 Butadiene	39	1.930	1.930	0.000	90	146675	50.0	50.1	
15 Bromomethane	94	2.228	2.228	0.000	90	89628	50.0	53.2	
16 Chloroethane	64	2.368	2.368	0.000	99	111283	50.0	52.2	
17 Dichlorofluoromethane	67	2.648	2.648	0.000	96	250823	50.0	50.6	
18 Trichlorofluoromethane	101	2.660	2.660	0.000	73	206141	50.0	52.1	
20 Ethyl ether	59	3.049	3.049	0.000	90	136903	50.0	48.8	
21 Acrolein	56	3.220	3.220	0.000	97	43327	150.0	141.7	
22 1,1-Dichloroethene	96	3.341	3.341	0.000	96	118856	50.0	48.6	
23 1,1,2-Trichloro-1,2,2-trif	101	3.390	3.390	0.000	95	126375	50.0	49.0	
24 Acetone	43	3.421	3.421	0.000	98	76252	100.0	88.7	
25 Iodomethane	142	3.536	3.536	0.000	98	159542	50.0	48.6	
26 Carbon disulfide	76	3.627	3.627	0.000	100	294989	50.0	46.6	
29 3-Chloro-1-propene	76	3.919	3.919	0.000	61	66228	50.0	48.1	
30 Methyl acetate	43	3.926	3.926	0.000	96	497011	250.0	246.7	
31 Methylene Chloride	84	4.132	4.132	0.000	93	163213	50.0	48.0	
32 2-Methyl-2-propanol	59	4.370	4.370	0.000	93	91997	500.0	507.7	
33 Acrylonitrile	53	4.503	4.503	0.000	98	501701	500.0	494.0	
34 trans-1,2-Dichloroethene	96	4.564	4.564	0.000	96	139824	50.0	49.6	
35 Methyl tert-butyl ether	73	4.576	4.576	0.000	97	394698	50.0	46.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
36 Hexane	57	4.990	4.990	0.000	93	186977	50.0	48.9	
37 1,1-Dichloroethane	63	5.197	5.197	0.000	97	251887	50.0	49.9	
38 Vinyl acetate	43	5.240	5.240	0.000	98	186047	50.0	45.6	
43 cis-1,2-Dichloroethene	96	5.939	5.939	0.000	85	151575	50.0	49.4	
44 2-Butanone (MEK)	43	5.945	5.945	0.000	60	108037	100.0	92.1	
42 2,2-Dichloropropane	77	5.945	5.945	0.000	61	122189	50.0	47.8	
48 Chlorobromomethane	128	6.231	6.231	0.000	96	58005	50.0	47.1	
49 Tetrahydrofuran	42	6.249	6.249	0.000	87	70787	100.0	89.6	
50 Chloroform	83	6.371	6.371	0.000	94	250393	50.0	49.9	
51 1,1,1-Trichloroethane	97	6.541	6.541	0.000	97	182973	50.0	49.4	
52 Cyclohexane	56	6.620	6.620	0.000	93	237539	50.0	50.0	
53 Carbon tetrachloride	117	6.718	6.718	0.000	95	126096	50.0	48.2	
54 1,1-Dichloropropene	75	6.724	6.724	0.000	95	202951	50.0	50.9	
55 Isobutyl alcohol	41	6.900	6.900	0.000	88	81470	1250.0	1159.5	
56 Benzene	78	6.943	6.943	0.000	97	574901	50.0	50.8	
57 1,2-Dichloroethane	62	7.016	7.016	0.000	99	225116	50.0	49.4	
59 n-Heptane	43	7.308	7.308	0.000	88	154761	50.0	50.3	
61 Trichloroethene	130	7.679	7.679	0.000	92	113666	50.0	48.2	
63 Methylcyclohexane	83	7.922	7.922	0.000	92	240977	50.0	50.3	
64 1,2-Dichloropropane	63	7.953	7.953	0.000	87	126414	50.0	46.8	
65 1,4-Dioxane	88	8.032	8.032	0.000	44	26388	1000.0	988.7	M
67 Dibromomethane	93	8.038	8.038	0.000	94	77394	50.0	47.1	
68 Dichlorobromomethane	83	8.227	8.227	0.000	98	144075	50.0	46.7	
71 cis-1,3-Dichloropropene	75	8.677	8.677	0.000	92	149301	50.0	44.1	
72 4-Methyl-2-pentanone (MIBK	43	8.823	8.823	0.000	96	208546	100.0	97.1	
73 Toluene	91	9.011	9.011	0.000	98	565645	50.0	52.5	
74 trans-1,3-Dichloropropene	75	9.255	9.255	0.000	95	124444	50.0	45.5	
75 Ethyl methacrylate	69	9.315	9.315	0.000	88	135064	50.0	46.5	
76 1,1,2-Trichloroethane	97	9.449	9.449	0.000	94	108552	50.0	48.7	
77 Tetrachloroethene	164	9.522	9.522	0.000	93	93269	50.0	50.7	
78 1,3-Dichloropropane	76	9.607	9.607	0.000	91	206060	50.0	50.0	
79 2-Hexanone	43	9.656	9.656	0.000	95	135329	100.0	96.0	
81 Chlorodibromomethane	129	9.826	9.826	0.000	91	73014	50.0	48.0	
82 Ethylene Dibromide	107	9.942	9.942	0.000	97	92363	50.0	46.8	
83 3-Chlorobenzotrifluoride	180	10.392	10.392	0.000	87	177755	50.0	51.5	
84 Chlorobenzene	112	10.429	10.429	0.000	91	339330	50.0	51.2	
85 4-Chlorobenzotrifluoride	180	10.483	10.483	0.000	96	164547	50.0	51.5	
86 1,1,1,2-Tetrachloroethane	131	10.520	10.520	0.000	85	89710	50.0	49.4	
87 Ethylbenzene	106	10.526	10.526	0.000	99	191951	50.0	51.4	
88 m-Xylene & p-Xylene	106	10.660	10.660	0.000	99	235109	50.0	50.7	
89 o-Xylene	106	11.043	11.043	0.000	98	234926	50.0	50.6	
90 Styrene	104	11.061	11.061	0.000	94	374525	50.0	52.6	
91 Bromoform	173	11.244	11.244	0.000	92	37102	50.0	45.7	
92 2-Chlorobenzotrifluoride	180	11.305	11.305	0.000	94	179913	50.0	50.9	
93 Isopropylbenzene	105	11.408	11.408	0.000	98	599038	50.0	54.0	
96 1,1,2,2-Tetrachloroethane	83	11.712	11.712	0.000	95	147479	50.0	49.5	
95 Bromobenzene	156	11.725	11.725	0.000	96	136094	50.0	49.5	
97 trans-1,4-Dichloro-2-buten	53	11.749	11.749	0.000	77	41001	50.0	47.0	
98 1,2,3-Trichloropropane	110	11.767	11.767	0.000	87	50085	50.0	47.9	
99 N-Propylbenzene	120	11.828	11.828	0.000	99	161671	50.0	51.1	
100 2-Chlorotoluene	126	11.913	11.913	0.000	93	133354	50.0	50.7	
101 3-Chlorotoluene	126	11.980	11.980	0.000	97	137766	50.0	49.9	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
102 1,3,5-Trimethylbenzene	105	12.010	12.010	0.000	95	541915	50.0	52.6	
103 4-Chlorotoluene	126	12.041	12.041	0.000	98	141377	50.0	50.9	
104 tert-Butylbenzene	119	12.321	12.321	0.000	91	415895	50.0	51.1	
106 1,2,4-Trimethylbenzene	105	12.382	12.382	0.000	99	554224	50.0	52.7	
107 1,2-dichloro-4-(trifluorom	214	12.418	12.418	0.000	96	144215	50.0	48.4	
108 sec-Butylbenzene	105	12.546	12.546	0.000	96	643438	50.0	53.0	
109 1,3-Dichlorobenzene	146	12.667	12.667	0.000	93	267626	50.0	49.8	
110 4-Isopropyltoluene	119	12.704	12.704	0.000	96	539941	50.0	53.0	
111 1,4-Dichlorobenzene	146	12.771	12.771	0.000	88	275229	50.0	50.1	
113 2,4-Dichloro-1-(triflourom	214	12.789	12.789	0.000	95	143623	50.0	48.4	
114 2,5-Dichlorobenzotrifluori	214	12.832	12.832	0.000	98	169006	50.0	51.0	
116 n-Butylbenzene	91	13.112	13.112	0.000	99	533401	50.0	52.4	
117 1,2-Dichlorobenzene	146	13.124	13.124	0.000	91	269873	50.0	49.8	
118 1,2-Dibromo-3-Chloropropan	75	13.915	13.921	-0.006	68	22010	50.0	44.3	
119 2,4- & 2,5- & 2,6- Dichlor	125	14.061	14.061	0.000	98	751227	150.0	159.2	
121 2,3- & 3,4- Dichlorotoluen	125	14.474	14.474	0.000	99	530353	100.0	101.9	
122 1,2,4-Trichlorobenzene	180	14.736	14.736	0.000	92	208112	50.0	49.5	
123 Hexachlorobutadiene	225	14.888	14.888	0.000	95	83692	50.0	50.6	
124 Naphthalene	128	15.004	15.004	0.000	99	425036	50.0	50.1	
125 1,2,3-Trichlorobenzene	180	15.229	15.229	0.000	91	189066	50.0	48.1	
126 2,4,5-Trichlorotoluene	159	16.007	16.007	0.000	0	121646	50.0	46.1	
127 2,3,6-Trichlorotoluene	159	16.111	16.111	0.000	92	120523	50.0	48.1	
145 2,3-Dichlorotoluene	1		0.000				ND	ND	
147 2,6-Dichlorotoluene	1		0.000				ND	ND	
146 3,4-Dichlorotoluene	1		0.000				ND	ND	
144 2,4-Dichlorotoluene	1		0.000				ND	ND	
143 2,5-Dichlorotoluene	1		0.000				ND	ND	
S 130 1,2-Dichloroethene, Total	96				0		100.0	99.0	
S 131 Xylenes, Total	106				0		100.0	101.4	
S 132 1,3-Dichloropropene, Total	1				0		100.0	89.5	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

VOA8260SURR_00039	Amount Added:	2.00	Units: uL	
voaWket1Reste_00001	Amount Added:	2.00	Units: uL	
voaWeemix1Res_00001	Amount Added:	2.00	Units: uL	
VOA8260VOAPRI_00134	Amount Added:	2.00	Units: uL	
voaWVA1st Res_00003	Amount Added:	2.00	Units: uL	
voaWAcro2nd R_00006	Amount Added:	6.00	Units: uL	
VOA8260INT_00039	Amount Added:	2.00	Units: uL	Run Reagent

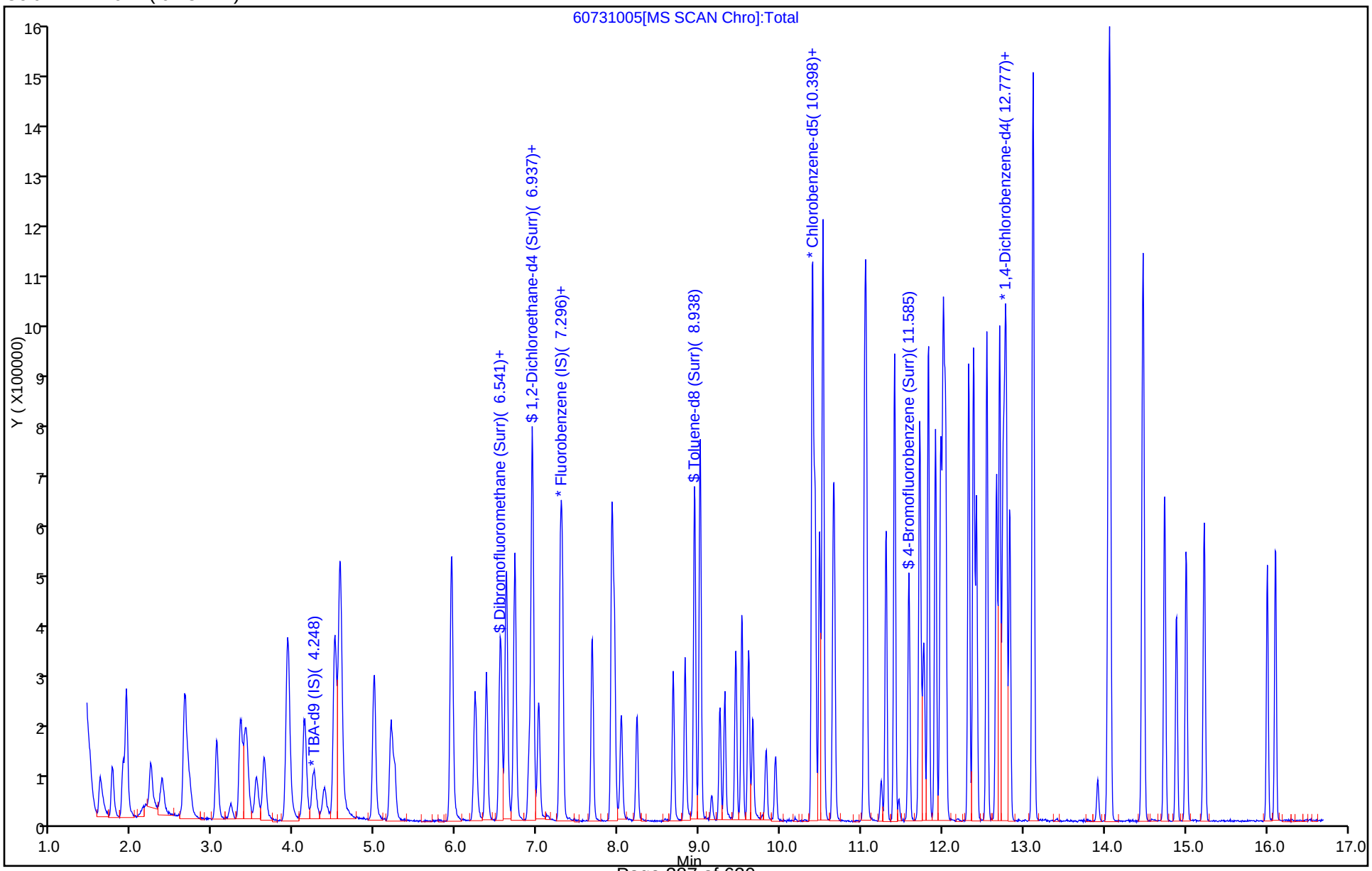
Report Date: 03-Aug-2015 12:56:52 Chrom Revision: 2.2 09-Jul-2015 10:16:20

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150731-7999.b\60731005.D

Injection Date:	31-Jul-2015 14:24:30	Instrument ID:	CHHP6	Operator ID:	001562
Lims ID:	ICIS VSTD10			Worklist Smp#:	5
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	MSVOA_LL_CHHP6	Limit Group:	VOA 8260C ICAL		

Column: DB-624 (0.18 mm)



Manual Integration/User Assign Peak Report

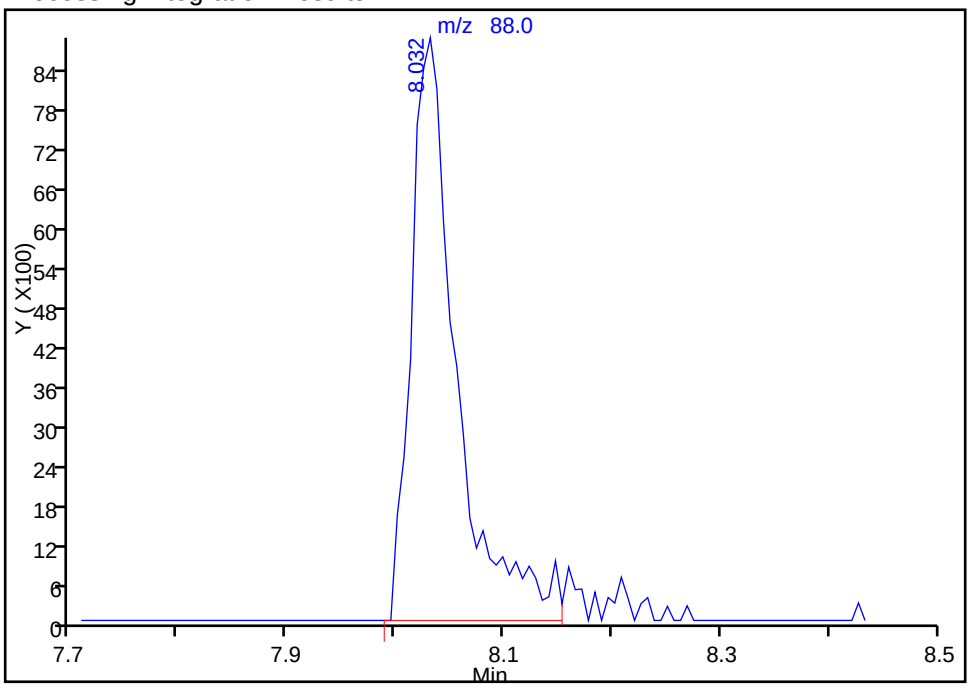
TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150731-7999.b\60731005.D
Injection Date: 31-Jul-2015 14:24:30 Instrument ID: CHHP6
Lims ID: ICIS VSTD10
Client ID:
Operator ID: 001562 ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

65 1,4-Dioxane, CAS: 123-91-1

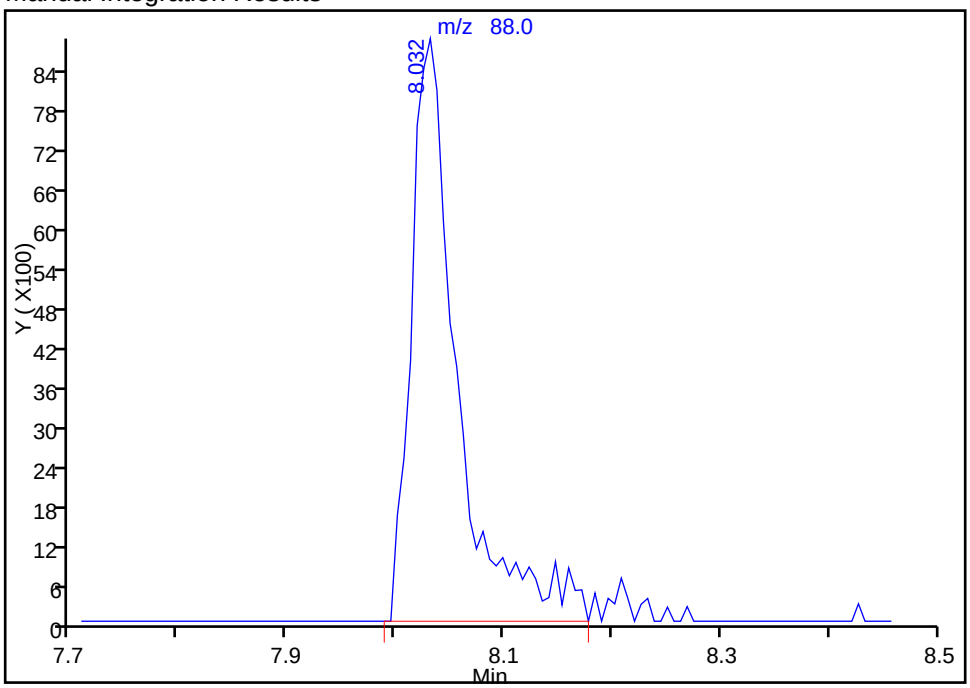
Processing Integration Results

RT: 8.03
Area: 25747
Amount: 938.6160
Amount Units: ng



Manual Integration Results

RT: 8.03
Area: 26388
Amount: 988.6792
Amount Units: ng



Reviewer: fergusond, 03-Aug-2015 10:47:28
Audit Action: Manually Integrated
Audit Reason: Peak Tail

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150731-7999.b\60731006.D
Lims ID: IC VSTD15
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 31-Jul-2015 14:49:30 ALS Bottle#: 6 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC VSTD15
Misc. Info.: 180-0007999-006
Operator ID: 001562 Instrument ID: CHHP6
Sublist: chrom-MSVOA_LL_CHHP6*sub5

Method: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150731-7999.b\MSVOA_LL_CHHP6.m
Limit Group: VOA 8260C ICAL
Last Update: 03-Aug-2015 12:15:42 Calib Date: 31-Jul-2015 18:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150731-7999.b\60731014.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK049

First Level Reviewer: fergusond Date: 03-Aug-2015 10:29:25

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.247	4.247	0.000	90	170149	1000.0	1000.0	
* 2 Fluorobenzene (IS)	96	7.289	7.289	0.000	98	471581	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.398	10.398	0.000	92	104570	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.746	12.746	0.000	95	167231	50.0	50.0	
$ 5 Dibromofluoromethane (Surr	113	6.553	6.553	0.000	92	163209	75.0	75.1	
$ 6 1,2-Dichloroethane-d4 (Sur	65	6.930	6.930	0.000	71	260570	75.0	74.4	
$ 7 Toluene-d8 (Surr)	98	8.938	8.938	0.000	94	643420	75.0	78.0	
$ 8 4-Bromofluorobenzene (Surr	95	11.584	11.584	0.000	80	281797	75.0	77.0	
11 Dichlorodifluoromethane	85	1.607	1.607	0.000	98	255750	75.0	78.3	
12 Chloromethane	50	1.759	1.759	0.000	99	208858	75.0	74.2	
13 Vinyl chloride	62	1.893	1.893	0.000	84	233901	75.0	77.2	
14 Butadiene	39	1.930	1.930	0.000	90	214248	75.0	75.4	
15 Bromomethane	94	2.228	2.228	0.000	89	123705	75.0	75.6	
16 Chloroethane	64	2.374	2.374	0.000	99	159781	75.0	77.2	
17 Dichlorofluoromethane	67	2.654	2.654	0.000	99	372545	75.0	77.4	
18 Trichlorofluoromethane	101	2.678	2.678	0.000	84	296881	75.0	77.3	
20 Ethyl ether	59	3.043	3.043	0.000	89	202583	75.0	74.4	
21 Acrolein	56	3.213	3.213	0.000	99	52894	175.0	178.1	
22 1,1-Dichloroethene	96	3.341	3.341	0.000	96	180424	75.0	76.0	
23 1,1,2-Trichloro-1,2,2-trif	101	3.402	3.402	0.000	96	188852	75.0	75.4	
24 Acetone	43	3.432	3.432	0.000	99	117975	150.0	141.4	
25 Iodomethane	142	3.530	3.530	0.000	99	243211	75.0	76.3	
26 Carbon disulfide	76	3.633	3.633	0.000	100	461167	75.0	75.0	
29 3-Chloro-1-propene	76	3.913	3.913	0.000	89	98190	75.0	73.4	
30 Methyl acetate	43	3.925	3.925	0.000	97	732698	375.0	374.5	
31 Methylene Chloride	84	4.132	4.132	0.000	93	238130	75.0	74.9	
32 2-Methyl-2-propanol	59	4.369	4.369	0.000	92	141735	750.0	740.2	
33 Acrylonitrile	53	4.497	4.497	0.000	99	737397	750.0	747.7	
34 trans-1,2-Dichloroethene	96	4.564	4.564	0.000	71	208665	75.0	76.2	
35 Methyl tert-butyl ether	73	4.576	4.576	0.000	97	621185	75.0	75.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
36 Hexane	57	4.990	4.990	0.000	94	278592	75.0	75.0	
37 1,1-Dichloroethane	63	5.196	5.196	0.000	97	371113	75.0	75.7	
38 Vinyl acetate	43	5.239	5.239	0.000	98	295714	75.0	74.7	
43 cis-1,2-Dichloroethene	96	5.939	5.939	0.000	85	223081	75.0	74.9	
44 2-Butanone (MEK)	43	5.945	5.945	0.000	61	180292	150.0	158.3	
42 2,2-Dichloropropane	77	5.945	5.945	0.000	61	186450	75.0	75.2	
48 Chlorobromomethane	128	6.225	6.225	0.000	97	88252	75.0	73.7	
49 Tetrahydrofuran	42	6.237	6.237	0.000	85	117489	150.0	153.2	
50 Chloroform	83	6.371	6.371	0.000	96	370042	75.0	76.0	
51 1,1,1-Trichloroethane	97	6.541	6.541	0.000	97	278390	75.0	77.4	
52 Cyclohexane	56	6.620	6.620	0.000	91	359010	75.0	77.9	
53 Carbon tetrachloride	117	6.717	6.717	0.000	97	195436	75.0	76.9	
54 1,1-Dichloropropene	75	6.730	6.730	0.000	95	301319	75.0	77.9	
55 Isobutyl alcohol	41	6.900	6.900	0.000	90	122452	1875.0	1794.8	
56 Benzene	78	6.942	6.942	0.000	97	839117	75.0	76.3	
57 1,2-Dichloroethane	62	7.015	7.015	0.000	99	335915	75.0	75.9	
59 n-Heptane	43	7.307	7.307	0.000	88	231524	75.0	77.5	
61 Trichloroethene	130	7.679	7.679	0.000	92	177868	75.0	77.6	
63 Methylcyclohexane	83	7.922	7.922	0.000	91	355558	75.0	76.4	
64 1,2-Dichloropropane	63	7.952	7.952	0.000	94	199527	75.0	76.0	
65 1,4-Dioxane	88	8.031	8.031	0.000	40	36545	1500.0	1410.1	
67 Dibromomethane	93	8.037	8.037	0.000	90	121844	75.0	76.4	
68 Dichlorobromomethane	83	8.226	8.226	0.000	98	230314	75.0	76.9	
71 cis-1,3-Dichloropropene	75	8.676	8.676	0.000	93	254907	75.0	77.5	
72 4-Methyl-2-pentanone (MIBK	43	8.822	8.822	0.000	94	330779	150.0	153.9	
73 Toluene	91	9.011	9.011	0.000	98	847209	75.0	78.5	
74 trans-1,3-Dichloropropene	75	9.254	9.254	0.000	97	221914	75.0	81.0	
75 Ethyl methacrylate	69	9.315	9.315	0.000	88	231048	75.0	79.4	
76 1,1,2-Trichloroethane	97	9.449	9.449	0.000	95	172158	75.0	77.1	
77 Tetrachloroethene	164	9.528	9.528	0.000	94	142949	75.0	77.7	
78 1,3-Dichloropropane	76	9.607	9.607	0.000	92	320167	75.0	77.7	
79 2-Hexanone	43	9.656	9.656	0.000	96	219895	150.0	155.8	
81 Chlorodibromomethane	129	9.826	9.826	0.000	89	123420	75.0	81.0	
82 Ethylene Dibromide	107	9.936	9.936	0.000	97	153351	75.0	77.7	
83 3-Chlorobenzotrifluoride	180	10.392	10.392	0.000	91	262608	75.0	76.0	
84 Chlorobenzene	112	10.428	10.428	0.000	91	513514	75.0	77.4	
85 4-Chlorobenzotrifluoride	180	10.483	10.483	0.000	96	245021	75.0	76.5	
86 1,1,1,2-Tetrachloroethane	131	10.520	10.520	0.000	87	138964	75.0	76.5	
87 Ethylbenzene	106	10.526	10.526	0.000	99	288675	75.0	77.2	
88 m-Xylene & p-Xylene	106	10.659	10.659	0.000	99	360561	75.0	77.7	
89 o-Xylene	106	11.037	11.037	0.000	98	364838	75.0	78.5	
90 Styrene	104	11.061	11.061	0.000	94	568513	75.0	79.7	
91 Bromoform	173	11.243	11.243	0.000	93	60348	75.0	74.2	
92 2-Chlorobenzotrifluoride	180	11.304	11.304	0.000	96	274773	75.0	77.7	
93 Isopropylbenzene	105	11.408	11.408	0.000	98	897341	75.0	80.7	
96 1,1,2,2-Tetrachloroethane	83	11.712	11.712	0.000	97	227964	75.0	76.4	
95 Bromobenzene	156	11.724	11.724	0.000	97	203181	75.0	75.6	
97 trans-1,4-Dichloro-2-buten	53	11.748	11.748	0.000	68	61474	75.0	72.1	
98 1,2,3-Trichloropropane	110	11.773	11.773	0.000	86	75371	75.0	73.7	
99 N-Propylbenzene	120	11.827	11.827	0.000	99	238465	75.0	77.0	
100 2-Chlorotoluene	126	11.913	11.913	0.000	93	197431	75.0	76.8	
101 3-Chlorotoluene	126	11.980	11.980	0.000	97	203636	75.0	75.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
102 1,3,5-Trimethylbenzene	105	12.010	12.010	0.000	92	796704	75.0	79.1	
103 4-Chlorotoluene	126	12.034	12.034	0.000	99	208897	75.0	76.9	
104 tert-Butylbenzene	119	12.320	12.320	0.000	91	633351	75.0	79.6	
106 1,2,4-Trimethylbenzene	105	12.381	12.381	0.000	99	824147	75.0	80.1	
107 1,2-dichloro-4-(trifluorom	214	12.418	12.418	0.000	96	221955	75.0	76.1	
108 sec-Butylbenzene	105	12.545	12.545	0.000	96	958306	75.0	80.7	
109 1,3-Dichlorobenzene	146	12.667	12.667	0.000	93	397446	75.0	75.7	
110 4-Isopropyltoluene	119	12.703	12.703	0.000	96	804039	75.0	80.7	
111 1,4-Dichlorobenzene	146	12.770	12.770	0.000	92	407678	75.0	75.9	
113 2,4-Dichloro-1-(triflourom	214	12.789	12.789	0.000	95	211084	75.0	72.8	
114 2,5-Dichlorobenzotrifluori	214	12.831	12.831	0.000	99	249633	75.0	77.0	
116 n-Butylbenzene	91	13.111	13.111	0.000	98	791496	75.0	79.6	
117 1,2-Dichlorobenzene	146	13.123	13.123	0.000	90	400593	75.0	75.6	
118 1,2-Dibromo-3-Chloropropan	75	13.914	13.920	-0.006	70	36339	75.0	74.7	
119 2,4- & 2,5- & 2,6- Dichlor	125	14.060	14.060	0.000	98	1076776	225.0	233.3	
121 2,3- & 3,4- Dichlorotoluen	125	14.474	14.474	0.000	98	792789	150.0	155.7	
122 1,2,4-Trichlorobenzene	180	14.741	14.741	0.000	92	309817	75.0	75.4	
123 Hexachlorobutadiene	225	14.887	14.887	0.000	96	122376	75.0	75.6	
124 Naphthalene	128	15.003	15.003	0.000	99	654694	75.0	78.9	
125 1,2,3-Trichlorobenzene	180	15.228	15.228	0.000	93	286920	75.0	74.6	
126 2,4,5-Trichlorotoluene	159	16.007	16.007	0.000	0	198517	75.0	76.9	
127 2,3,6-Trichlorotoluene	159	16.110	16.110	0.000	93	186087	75.0	76.0	
143 2,5-Dichlorotoluene	1		0.000				ND	ND	
147 2,6-Dichlorotoluene	1		0.000				ND	ND	
144 2,4-Dichlorotoluene	1		0.000				ND	ND	
145 2,3-Dichlorotoluene	1		0.000				ND	ND	
146 3,4-Dichlorotoluene	1		0.000				ND	ND	
S 130 1,2-Dichloroethene, Total	96				0		150.0	151.1	
S 131 Xylenes, Total	106				0		150.0	156.2	
S 132 1,3-Dichloropropene, Total	1				0		150.0	158.5	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

VOA8260SURR_00039	Amount Added:	3.00	Units: uL	
voaWket1Reste_00001	Amount Added:	3.00	Units: uL	
voaWeemix1Res_00001	Amount Added:	3.00	Units: uL	
voaWVA1st Res_00003	Amount Added:	3.00	Units: uL	
VOA8260VOAPRI_00134	Amount Added:	3.00	Units: uL	
voaWAcro2nd R_00006	Amount Added:	7.00	Units: uL	
VOA8260INT_00039	Amount Added:	2.00	Units: uL	Run Reagent

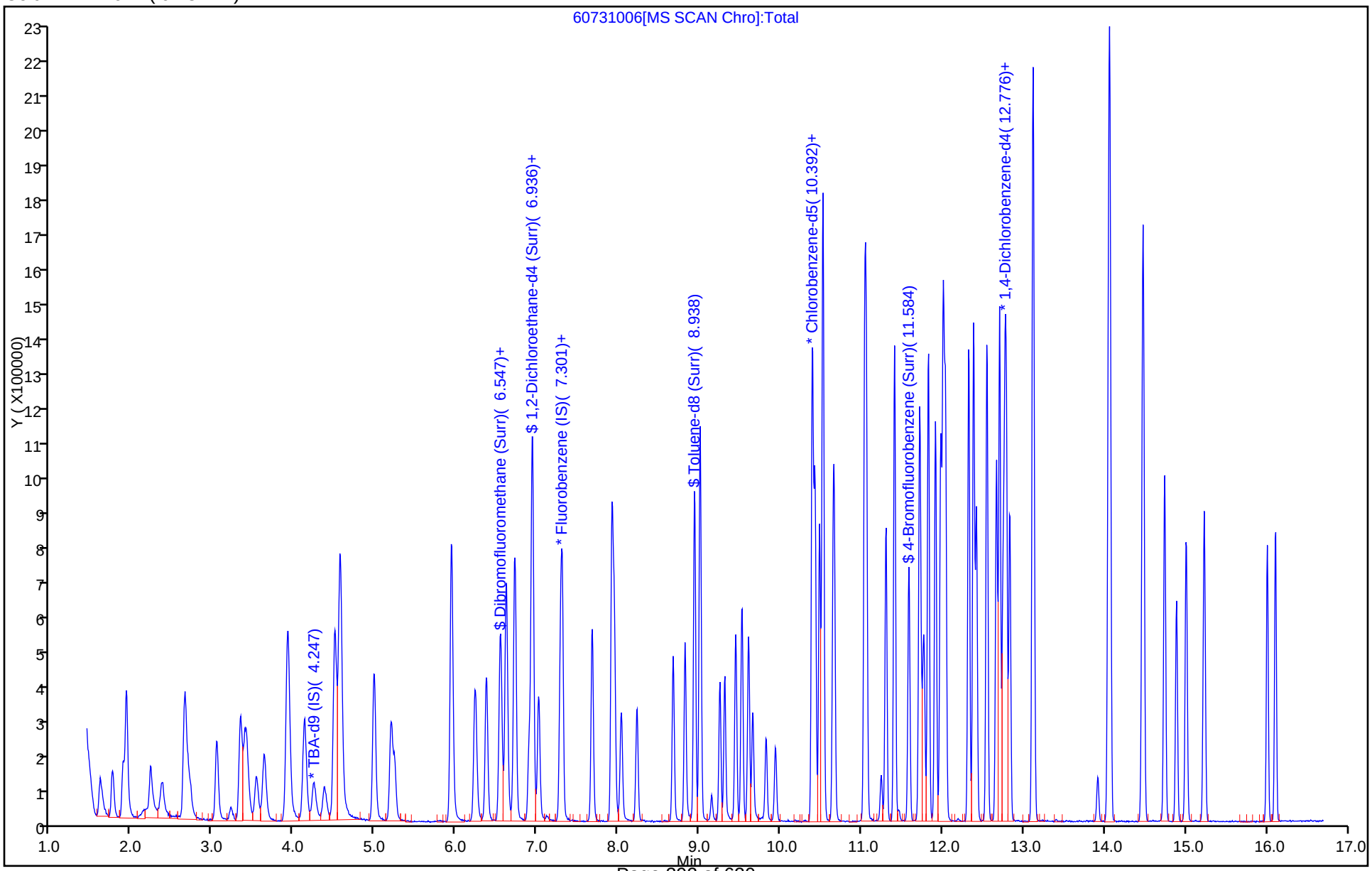
Report Date: 03-Aug-2015 12:15:44 Chrom Revision: 2.2 09-Jul-2015 10:16:20

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150731-7999.b\60731006.D

Injection Date:	31-Jul-2015 14:49:30	Instrument ID:	CHHP6	Operator ID:	001562
Lims ID:	IC VSTD15			Worklist Smp#:	6
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	MSVOA_LL_CHHP6	Limit Group:	VOA 8260C ICAL		

Column: DB-624 (0.18 mm)



TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150731-7999.b\60731007.D
Lims ID: IC VSTD20
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 31-Jul-2015 15:13:30 ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC VSTD20
Misc. Info.: 180-0007999-007
Operator ID: 001562 Instrument ID: CHHP6
Sublist: chrom-MSVOA_LL_CHHP6*sub5

Method: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150731-7999.b\MSVOA_LL_CHHP6.m
Limit Group: VOA 8260C ICAL
Last Update: 03-Aug-2015 12:15:51 Calib Date: 31-Jul-2015 18:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150731-7999.b\60731014.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK049

First Level Reviewer: fergusond Date: 03-Aug-2015 10:27:52

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.241	4.247	-0.006	92	168874	1000.0	1000.0	
* 2 Fluorobenzene (IS)	96	7.283	7.289	-0.006	98	482403	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.398	10.398	0.000	91	110045	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.746	12.746	0.000	94	171338	50.0	50.0	
$ 5 Dibromofluoromethane (Surr	113	6.553	6.553	0.000	93	221245	100.0	99.6	
$ 6 1,2-Dichloroethane-d4 (Sur	65	6.930	6.930	0.000	70	353626	100.0	98.6	
$ 7 Toluene-d8 (Surr)	98	8.938	8.938	0.000	95	864751	100.0	99.6	
$ 8 4-Bromofluorobenzene (Surr	95	11.584	11.584	0.000	81	371000	100.0	96.3	
11 Dichlorodifluoromethane	85	1.607	1.607	0.000	100	316945	100.0	94.9	
12 Chloromethane	50	1.759	1.759	0.000	99	278884	100.0	96.9	
13 Vinyl chloride	62	1.887	1.893	-0.006	99	292173	100.0	94.2	
14 Butadiene	39	1.930	1.930	0.000	90	274693	100.0	94.5	
15 Bromomethane	94	2.234	2.228	0.006	91	158589	100.0	94.7	
16 Chloroethane	64	2.368	2.374	-0.006	99	198857	100.0	93.9	
17 Dichlorofluoromethane	67	2.647	2.654	-0.007	98	463283	100.0	94.0	
18 Trichlorofluoromethane	101	2.672	2.678	-0.006	99	367084	100.0	93.4	
20 Ethyl ether	59	3.043	3.043	0.000	90	269465	100.0	96.8	
21 Acrolein	56	3.219	3.213	0.006	98	54177	200.0	178.4	
22 1,1-Dichloroethene	96	3.335	3.341	-0.006	96	234083	100.0	96.4	
23 1,1,2-Trichloro-1,2,2-trif	101	3.396	3.402	-0.006	96	241359	100.0	94.2	
24 Acetone	43	3.426	3.432	-0.006	99	166807	200.0	195.5	
25 Iodomethane	142	3.536	3.530	0.006	98	318736	100.0	97.8	
26 Carbon disulfide	76	3.633	3.633	0.000	100	618168	100.0	98.2	
29 3-Chloro-1-propene	76	3.907	3.913	-0.006	88	135273	100.0	98.8	
30 Methyl acetate	43	3.925	3.925	0.000	97	982363	500.0	490.9	
31 Methylene Chloride	84	4.132	4.132	0.000	92	313904	100.0	98.1	
32 2-Methyl-2-propanol	59	4.369	4.369	0.000	92	198055	1000.0	1042.2	
33 Acrylonitrile	53	4.503	4.497	0.006	99	994141	1000.0	985.4	
34 trans-1,2-Dichloroethene	96	4.564	4.564	0.000	97	267617	100.0	95.5	
35 Methyl tert-butyl ether	73	4.576	4.576	0.000	97	825760	100.0	98.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
36 Hexane	57	4.983	4.990	-0.007	93	352983	100.0	93.0	
37 1,1-Dichloroethane	63	5.196	5.196	0.000	97	490563	100.0	97.8	
38 Vinyl acetate	43	5.239	5.239	0.000	97	412541	100.0	101.9	
43 cis-1,2-Dichloroethene	96	5.945	5.939	0.006	85	295290	100.0	96.9	
44 2-Butanone (MEK)	43	5.945	5.945	0.000	60	231667	200.0	198.9	
42 2,2-Dichloropropane	77	5.945	5.945	0.000	62	250901	100.0	98.9	
48 Chlorobromomethane	128	6.231	6.225	0.006	97	118290	100.0	96.6	
49 Tetrahydrofuran	42	6.249	6.237	0.012	85	154776	200.0	197.3	
50 Chloroform	83	6.370	6.371	-0.001	96	484585	100.0	97.3	
51 1,1,1-Trichloroethane	97	6.535	6.541	-0.006	98	366376	100.0	99.6	
52 Cyclohexane	56	6.614	6.620	-0.006	92	445084	100.0	94.4	
53 Carbon tetrachloride	117	6.717	6.717	0.000	98	252588	100.0	97.2	
54 1,1-Dichloropropene	75	6.729	6.730	-0.001	94	392146	100.0	99.1	
55 Isobutyl alcohol	41	6.900	6.900	0.000	92	178080	2500.0	2551.6	
56 Benzene	78	6.942	6.942	0.000	98	1096030	100.0	97.5	
57 1,2-Dichloroethane	62	7.015	7.015	0.000	99	440984	100.0	97.4	
59 n-Heptane	43	7.307	7.307	0.000	85	290327	100.0	95.0	
61 Trichloroethene	130	7.678	7.679	-0.001	93	230554	100.0	98.3	
63 Methylcyclohexane	83	7.922	7.922	0.000	91	455180	100.0	95.7	
64 1,2-Dichloropropane	63	7.952	7.952	0.000	94	267345	100.0	99.5	
65 1,4-Dioxane	88	8.031	8.031	0.000	41	54577	2000.0	2058.6	M
67 Dibromomethane	93	8.037	8.037	0.000	92	163719	100.0	100.4	
68 Dichlorobromomethane	83	8.232	8.226	0.006	99	311750	100.0	101.7	
71 cis-1,3-Dichloropropene	75	8.676	8.676	0.000	93	358605	100.0	106.5	
72 4-Methyl-2-pentanone (MIBK	43	8.822	8.822	0.000	95	452681	200.0	200.1	
73 Toluene	91	9.011	9.011	0.000	98	1104648	100.0	97.3	
74 trans-1,3-Dichloropropene	75	9.254	9.254	0.000	97	303226	100.0	105.2	
75 Ethyl methacrylate	69	9.315	9.315	0.000	88	326852	100.0	106.8	
76 1,1,2-Trichloroethane	97	9.449	9.449	0.000	95	224945	100.0	95.8	
77 Tetrachloroethene	164	9.528	9.528	0.000	94	183568	100.0	94.8	
78 1,3-Dichloropropane	76	9.607	9.607	0.000	92	425660	100.0	98.1	
79 2-Hexanone	43	9.656	9.656	0.000	95	302805	200.0	203.8	
81 Chlorodibromomethane	129	9.826	9.826	0.000	90	163175	100.0	101.8	
82 Ethylene Dibromide	107	9.941	9.936	0.005	96	211303	100.0	101.7	
83 3-Chlorobenzotrifluoride	180	10.392	10.392	0.000	91	340769	100.0	93.7	
84 Chlorobenzene	112	10.428	10.428	0.000	91	676590	100.0	96.9	
85 4-Chlorobenzotrifluoride	180	10.483	10.483	0.000	96	315960	100.0	93.8	
86 1,1,1,2-Tetrachloroethane	131	10.525	10.520	0.005	88	192497	100.0	100.6	
87 Ethylbenzene	106	10.525	10.526	-0.001	99	383099	100.0	97.3	
88 m-Xylene & p-Xylene	106	10.659	10.659	0.000	100	480587	100.0	98.4	
89 o-Xylene	106	11.036	11.037	-0.001	98	484093	100.0	99.0	
90 Styrene	104	11.061	11.061	0.000	94	752806	100.0	100.3	
91 Bromoform	173	11.243	11.243	0.000	93	85498	100.0	99.9	
92 2-Chlorobenzotrifluoride	180	11.304	11.304	0.000	93	350232	100.0	94.1	
93 Isopropylbenzene	105	11.408	11.408	0.000	98	1146617	100.0	98.0	
96 1,1,2,2-Tetrachloroethane	83	11.718	11.712	0.006	96	304710	100.0	97.0	
95 Bromobenzene	156	11.724	11.724	0.000	97	276525	100.0	100.4	
97 trans-1,4-Dichloro-2-buten	53	11.748	11.748	0.000	80	87362	100.0	100.0	
98 1,2,3-Trichloropropane	110	11.773	11.773	0.000	86	102213	100.0	97.6	
99 N-Propylbenzene	120	11.827	11.827	0.000	98	317924	100.0	100.2	
100 2-Chlorotoluene	126	11.913	11.913	-0.001	93	265955	100.0	101.0	
101 3-Chlorotoluene	126	11.979	11.980	-0.001	97	282386	100.0	102.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
102 1,3,5-Trimethylbenzene	105	12.010	12.010	0.000	94	1031152	100.0	100.0	
103 4-Chlorotoluene	126	12.034	12.034	0.000	100	278435	100.0	100.1	
104 tert-Butylbenzene	119	12.326	12.320	0.006	91	820194	100.0	100.6	
106 1,2,4-Trimethylbenzene	105	12.381	12.381	0.000	99	1075766	100.0	102.0	
107 1,2-dichloro-4-(trifluorom	214	12.417	12.418	-0.001	95	280215	100.0	93.8	
108 sec-Butylbenzene	105	12.545	12.545	0.000	97	1226548	100.0	100.8	
109 1,3-Dichlorobenzene	146	12.667	12.667	0.000	93	528372	100.0	98.2	
110 4-Isopropyltoluene	119	12.703	12.703	0.000	95	1043904	100.0	102.3	
111 1,4-Dichlorobenzene	146	12.770	12.770	0.000	90	543357	100.0	98.8	
113 2,4-Dichloro-1-(triflourom	214	12.789	12.789	0.000	97	297534	100.0	100.1	
114 2,5-Dichlorobenzotrifluori	214	12.831	12.831	0.000	98	301973	100.0	91.0	
116 n-Butylbenzene	91	13.111	13.111	0.000	97	1018212	100.0	99.9	
117 1,2-Dichlorobenzene	146	13.123	13.123	0.000	92	525918	100.0	96.8	
118 1,2-Dibromo-3-Chloropropan	75	13.914	13.920	-0.006	68	49062	100.0	98.5	
119 2,4- & 2,5- & 2,6- Dichlor	125	14.060	14.060	0.000	98	1401616	300.0	296.5	
121 2,3- & 3,4- Dichlorotoluen	125	14.474	14.474	0.000	98	1039069	200.0	199.2	
122 1,2,4-Trichlorobenzene	180	14.741	14.741	0.000	92	415442	100.0	98.7	
123 Hexachlorobutadiene	225	14.887	14.887	0.000	97	161228	100.0	97.2	
124 Naphthalene	128	15.003	15.003	0.000	99	876449	100.0	103.2	
125 1,2,3-Trichlorobenzene	180	15.228	15.228	0.000	92	385220	100.0	97.8	
126 2,4,5-Trichlorotoluene	159	16.007	16.007	0.000	0	266093	100.0	100.6	
127 2,3,6-Trichlorotoluene	159	16.110	16.110	0.000	93	248497	100.0	99.0	
144 2,4-Dichlorotoluene	1		0.000				ND	ND	
147 2,6-Dichlorotoluene	1		0.000				ND	ND	
145 2,3-Dichlorotoluene	1		0.000				ND	ND	
146 3,4-Dichlorotoluene	1		0.000				ND	ND	
143 2,5-Dichlorotoluene	1		0.000				ND	ND	
S 130 1,2-Dichloroethene, Total	96				0		200.0	192.4	
S 131 Xylenes, Total	106				0		200.0	197.4	
S 132 1,3-Dichloropropene, Total	1				0		200.0	211.7	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

VOA8260SURR_00039	Amount Added:	4.00	Units: uL	
voaWket1Reste_00001	Amount Added:	4.00	Units: uL	
voaWeemix1Res_00001	Amount Added:	4.00	Units: uL	
voaWVA1st Res_00003	Amount Added:	4.00	Units: uL	
VOA8260VOAPRI_00134	Amount Added:	4.00	Units: uL	
voaWAcro2nd R_00006	Amount Added:	8.00	Units: uL	
VOA8260INT_00039	Amount Added:	2.00	Units: uL	Run Reagent

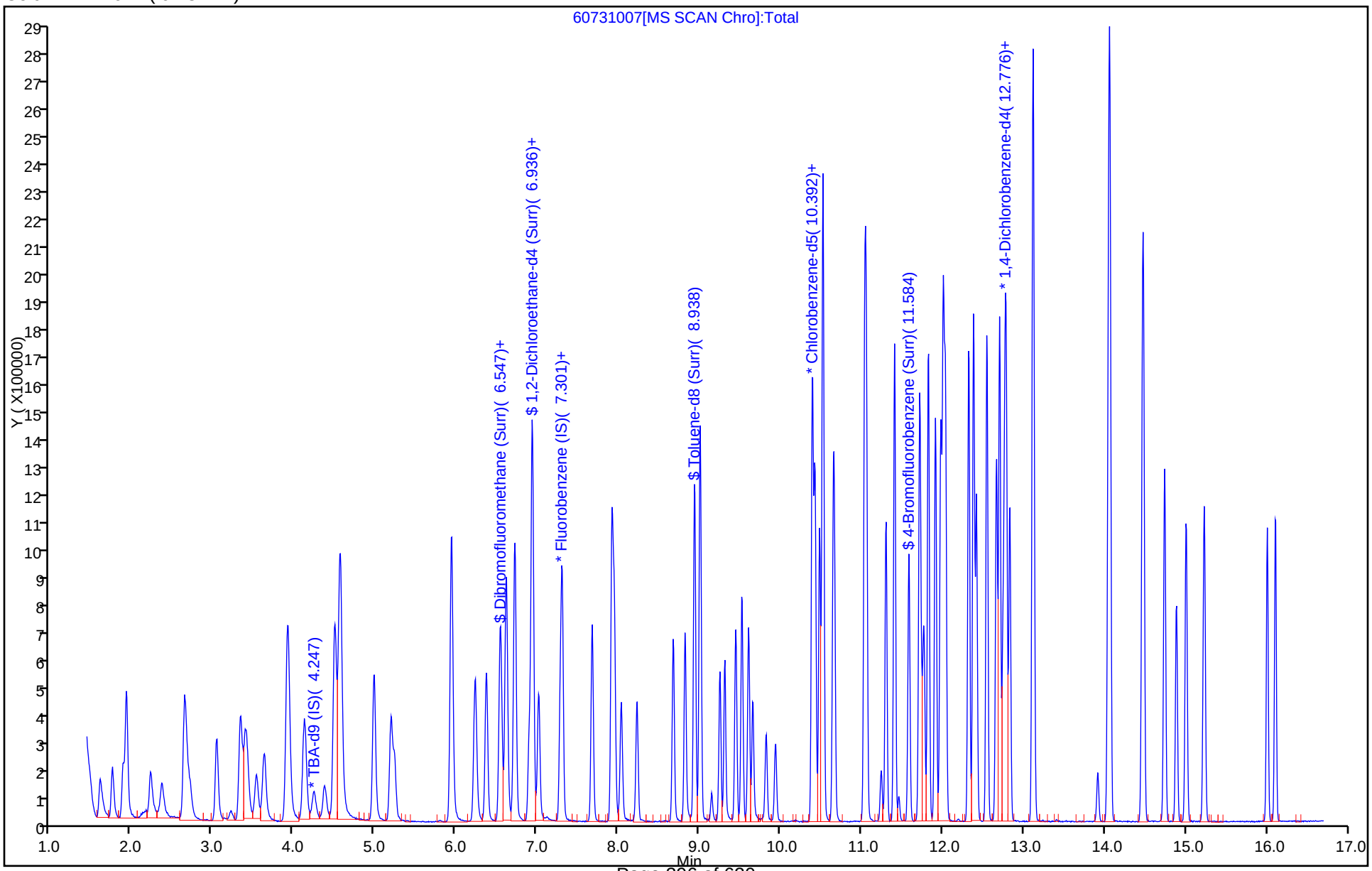
Report Date: 03-Aug-2015 12:15:52 Chrom Revision: 2.2 09-Jul-2015 10:16:20

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150731-7999.b\60731007.D

Injection Date:	31-Jul-2015 15:13:30	Instrument ID:	CHHP6	Operator ID:	001562
Lims ID:	IC VSTD20			Worklist Smp#:	7
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	MSVOA_LL_CHHP6	Limit Group:	VOA 8260C ICAL		

Column: DB-624 (0.18 mm)



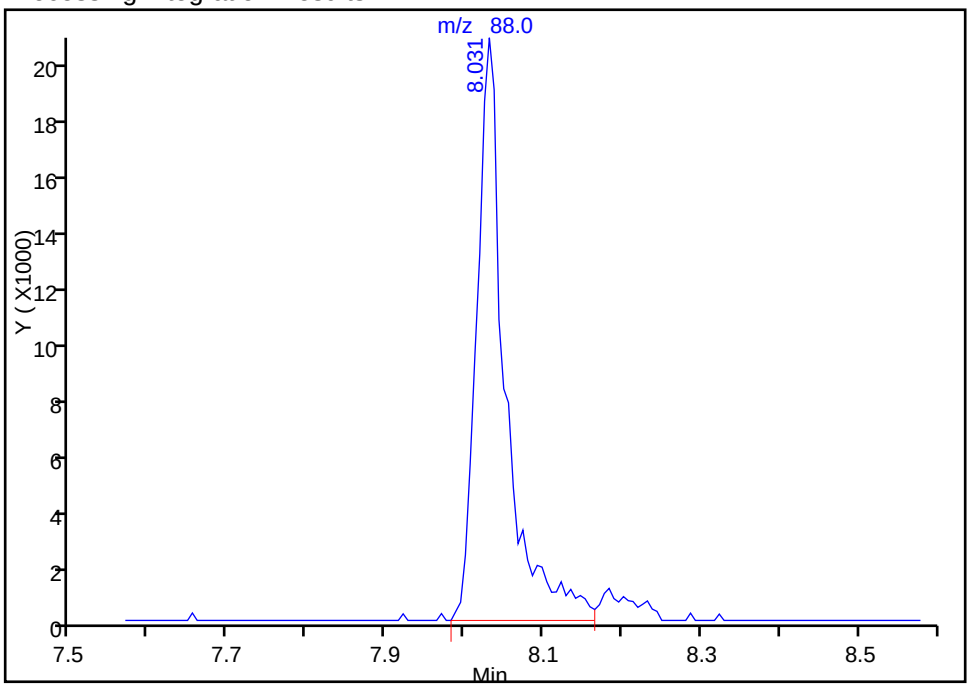
TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHHP6\20150731-7999.b\60731007.D				
Injection Date:	31-Jul-2015 15:13:30	Instrument ID:	CHHP6		
Lims ID:	IC VSTD20				
Client ID:					
Operator ID:	001562	ALS Bottle#:	7	Worklist Smp#:	7
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVOA_LL_CHHP6	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

65 1,4-Dioxane, CAS: 123-91-1

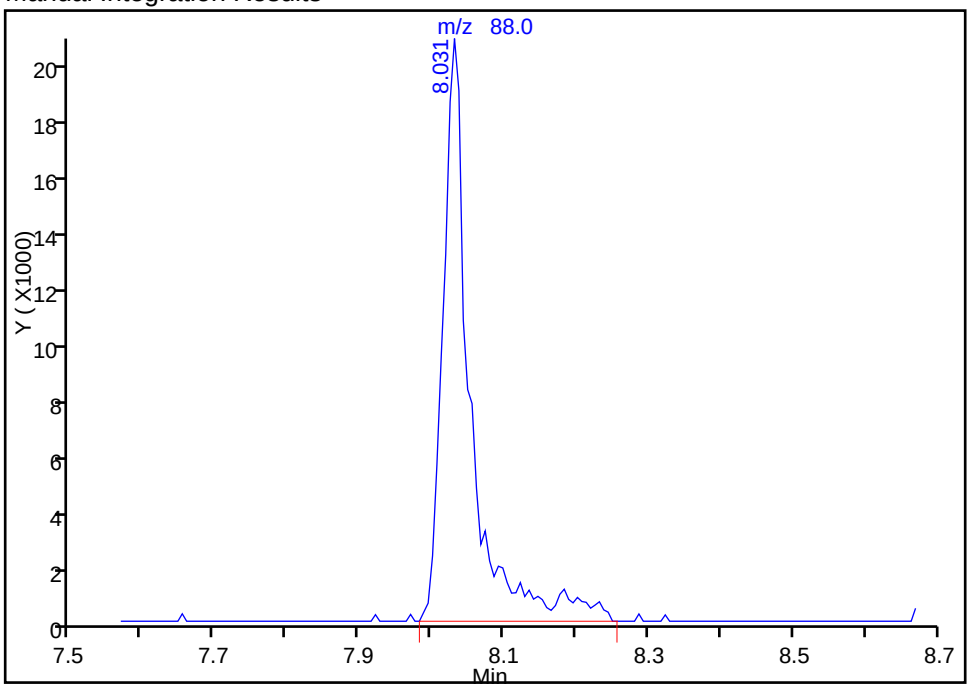
Processing Integration Results

RT: 8.03
Area: 51451
Amount: 1915.4354
Amount Units: ng



Manual Integration Results

RT: 8.03
Area: 54577
Amount: 2058.6297
Amount Units: ng



Reviewer: fergusond, 03-Aug-2015 10:27:52
Audit Action: Manually Integrated
Audit Reason: Peak Tail

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150731-7999.b\60731008.D
Lims ID: IC VSTD35
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 31-Jul-2015 15:37:30 ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC VSTD35
Misc. Info.: 180-0007999-008
Operator ID: 001562 Instrument ID: CHHP6
Sublist: chrom-MSVOA_LL_CHHP6*sub5

Method: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150731-7999.b\MSVOA_LL_CHHP6.m
Limit Group: VOA 8260C ICAL
Last Update: 03-Aug-2015 12:16:01 Calib Date: 31-Jul-2015 18:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150731-7999.b\60731014.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK049

First Level Reviewer: fergusond Date: 31-Jul-2015 16:23:22

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.254	4.247	0.007	92	191694	1000.0	1000.0	
* 2 Fluorobenzene (IS)	96	7.283	7.289	-0.006	98	474812	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.398	10.398	0.000	91	108350	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.746	12.746	0.000	96	164628	50.0	50.0	
$ 5 Dibromofluoromethane (Surr	113	6.553	6.553	0.000	92	378487	175.0	173.1	
$ 6 1,2-Dichloroethane-d4 (Sur	65	6.931	6.930	0.001	71	595019	175.0	168.6	
$ 7 Toluene-d8 (Surr)	98	8.938	8.938	0.000	94	1415164	175.0	165.6	
$ 8 4-Bromofluorobenzene (Surr	95	11.584	11.584	0.000	80	645419	175.0	170.1	
11 Dichlorodifluoromethane	85	1.601	1.607	-0.006	99	575043	175.0	174.9	
12 Chloromethane	50	1.754	1.759	-0.005	99	470953	175.0	166.2	
13 Vinyl chloride	62	1.887	1.893	-0.006	99	517410	175.0	169.5	
14 Butadiene	39	1.924	1.930	-0.006	90	483297	175.0	168.9	
15 Bromomethane	94	2.222	2.228	-0.006	90	248522	175.0	150.8	
16 Chloroethane	64	2.356	2.374	-0.018	99	359701	175.0	172.7	
17 Dichlorofluoromethane	67	2.642	2.654	-0.012	97	819476	175.0	169.0	
18 Trichlorofluoromethane	101	2.654	2.678	-0.024	76	664854	175.0	171.9	
20 Ethyl ether	59	3.043	3.043	0.000	89	458021	175.0	167.1	
21 Acrolein	56	3.220	3.213	0.007	99	68050	225.0	227.6	
22 1,1-Dichloroethene	96	3.335	3.341	-0.006	96	411177	175.0	172.0	
23 1,1,2-Trichloro-1,2,2-trif	101	3.390	3.402	-0.012	95	446711	175.0	177.0	
24 Acetone	43	3.426	3.432	-0.006	100	284563	350.0	338.8	
25 Iodomethane	142	3.536	3.530	0.006	99	566533	175.0	176.6	
26 Carbon disulfide	76	3.627	3.633	-0.006	100	1151644	175.0	185.9	
29 3-Chloro-1-propene	76	3.913	3.913	0.000	89	257112	175.0	190.8	
30 Methyl acetate	43	3.925	3.925	0.000	96	1680300	875.0	853.1	
31 Methylene Chloride	84	4.132	4.132	0.000	91	527474	175.0	171.5	
32 2-Methyl-2-propanol	59	4.382	4.369	0.013	93	354063	1750.0	1641.3	
33 Acrylonitrile	53	4.503	4.497	0.006	98	1745686	1750.0	1758.1	
34 trans-1,2-Dichloroethene	96	4.558	4.564	-0.006	98	479327	175.0	173.8	
35 Methyl tert-butyl ether	73	4.570	4.576	-0.006	97	1455878	175.0	176.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
36 Hexane	57	4.984	4.990	-0.006	92	669795	175.0	179.2	
37 1,1-Dichloroethane	63	5.191	5.196	-0.005	97	861981	175.0	174.6	
38 Vinyl acetate	43	5.239	5.239	0.000	97	744628	175.0	186.8	
43 cis-1,2-Dichloroethene	96	5.939	5.939	0.000	87	520777	175.0	173.6	
44 2-Butanone (MEK)	43	5.945	5.945	0.000	87	412307	350.0	359.6	
42 2,2-Dichloropropane	77	5.945	5.945	0.000	79	484574	175.0	194.1	
48 Chlorobromomethane	128	6.231	6.225	0.006	97	209995	175.0	174.3	
49 Tetrahydrofuran	42	6.249	6.237	0.012	86	277489	350.0	359.4	
50 Chloroform	83	6.371	6.371	0.000	94	847765	175.0	173.0	
51 1,1,1-Trichloroethane	97	6.535	6.541	-0.006	97	659562	175.0	182.1	
52 Cyclohexane	56	6.614	6.620	-0.006	92	834057	175.0	179.7	
53 Carbon tetrachloride	117	6.718	6.717	0.001	97	479558	175.0	187.5	
54 1,1-Dichloropropene	75	6.724	6.730	-0.006	95	675711	175.0	173.5	
55 Isobutyl alcohol	41	6.900	6.900	0.000	89	326401	4375.0	4751.5	
56 Benzene	78	6.943	6.942	0.001	98	1836424	175.0	166.0	
57 1,2-Dichloroethane	62	7.016	7.015	0.001	98	746328	175.0	167.4	
59 n-Heptane	43	7.308	7.307	0.001	86	526126	175.0	174.9	
61 Trichloroethene	130	7.679	7.679	0.000	93	405251	175.0	175.6	
63 Methylcyclohexane	83	7.922	7.922	0.000	91	834543	175.0	178.2	
64 1,2-Dichloropropane	63	7.953	7.952	0.001	86	455391	175.0	172.3	
65 1,4-Dioxane	88	8.032	8.031	0.001	47	98136	3500.0	3760.8	M
67 Dibromomethane	93	8.038	8.037	0.001	92	283101	175.0	176.4	
68 Dichlorobromomethane	83	8.226	8.226	0.000	98	551929	175.0	183.0	
71 cis-1,3-Dichloropropene	75	8.677	8.676	0.001	93	650196	175.0	196.2	
72 4-Methyl-2-pentanone (MIBK	43	8.823	8.822	0.001	93	808342	350.0	362.9	
73 Toluene	91	9.011	9.011	0.000	98	1802740	175.0	161.2	
74 trans-1,3-Dichloropropene	75	9.254	9.254	0.000	96	565592	175.0	199.3	
75 Ethyl methacrylate	69	9.315	9.315	0.000	87	580427	175.0	192.5	
76 1,1,2-Trichloroethane	97	9.449	9.449	0.000	94	391776	175.0	169.4	
77 Tetrachloroethene	164	9.528	9.528	0.000	95	319955	175.0	167.8	
78 1,3-Dichloropropane	76	9.607	9.607	0.000	93	717566	175.0	168.0	
79 2-Hexanone	43	9.656	9.656	0.000	94	534519	350.0	365.4	
81 Chlorodibromomethane	129	9.820	9.826	-0.006	90	301710	175.0	191.2	
82 Ethylene Dibromide	107	9.936	9.936	0.000	97	363449	175.0	177.6	
83 3-Chlorobenzotrifluoride	180	10.392	10.392	0.000	92	600793	175.0	167.8	
84 Chlorobenzene	112	10.429	10.428	0.001	89	1142353	175.0	166.2	
85 4-Chlorobenzotrifluoride	180	10.483	10.483	0.000	96	570403	175.0	171.9	
86 1,1,1,2-Tetrachloroethane	131	10.520	10.520	0.000	89	349368	175.0	185.5	
87 Ethylbenzene	106	10.526	10.526	0.000	98	663577	175.0	171.2	
88 m-Xylene & p-Xylene	106	10.660	10.659	0.001	99	823294	175.0	171.1	
89 o-Xylene	106	11.037	11.037	0.000	96	833629	175.0	173.2	
90 Styrene	104	11.061	11.061	0.000	92	1289309	175.0	174.4	
91 Bromoform	173	11.244	11.243	0.001	93	160966	175.0	191.1	
92 2-Chlorobenzotrifluoride	180	11.305	11.304	0.001	94	628216	175.0	171.3	
93 Isopropylbenzene	105	11.408	11.408	0.000	99	1921153	175.0	166.8	
96 1,1,2,2-Tetrachloroethane	83	11.712	11.712	0.000	96	532593	175.0	172.2	
95 Bromobenzene	156	11.724	11.724	0.000	98	459843	175.0	173.7	
97 trans-1,4-Dichloro-2-buten	53	11.749	11.748	0.001	80	160304	175.0	191.0	
98 1,2,3-Trichloropropane	110	11.773	11.773	0.000	84	178317	175.0	177.2	
99 N-Propylbenzene	120	11.828	11.827	0.001	98	554932	175.0	182.1	
100 2-Chlorotoluene	126	11.913	11.913	0.000	93	446590	175.0	176.5	
101 3-Chlorotoluene	126	11.980	11.980	0.000	96	485130	175.0	182.5	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
102 1,3,5-Trimethylbenzene	105	12.010	12.010	0.000	93	1730016	175.0	174.6	
103 4-Chlorotoluene	126	12.041	12.034	0.007	100	464650	175.0	173.8	
104 tert-Butylbenzene	119	12.327	12.320	0.007	90	1405341	175.0	179.5	
106 1,2,4-Trimethylbenzene	105	12.381	12.381	0.000	98	1786151	175.0	176.3	
107 1,2-dichloro-4-(trifluorom	214	12.418	12.418	0.000	95	509173	175.0	177.4	
108 sec-Butylbenzene	105	12.546	12.545	0.001	97	2038837	175.0	174.4	
109 1,3-Dichlorobenzene	146	12.667	12.667	0.000	92	886632	175.0	171.5	
110 4-Isopropyltoluene	119	12.704	12.703	0.001	94	1736569	175.0	177.1	
111 1,4-Dichlorobenzene	146	12.771	12.770	0.001	92	902441	175.0	170.8	
113 2,4-Dichloro-1-(triflourom	214	12.789	12.789	0.000	94	534909	175.0	187.3	
114 2,5-Dichlorobenzotrifluori	214	12.832	12.831	0.001	96	537191	175.0	168.4	
116 n-Butylbenzene	91	13.111	13.111	0.000	97	1734264	175.0	177.1	
117 1,2-Dichlorobenzene	146	13.124	13.123	0.001	89	899668	175.0	172.4	
118 1,2-Dibromo-3-Chloropropan	75	13.914	13.920	-0.006	71	96376	175.0	201.4	
119 2,4- & 2,5- & 2,6- Dichlor	125	14.060	14.060	0.000	95	2390336	525.0	526.2	
121 2,3- & 3,4- Dichlorotoluen	125	14.474	14.474	0.000	97	1797097	350.0	358.5	
122 1,2,4-Trichlorobenzene	180	14.742	14.741	0.001	92	726756	175.0	179.7	
123 Hexachlorobutadiene	225	14.888	14.887	0.001	97	290426	175.0	182.3	
124 Naphthalene	128	15.003	15.003	0.000	99	1550041	175.0	189.9	
125 1,2,3-Trichlorobenzene	180	15.228	15.228	0.000	93	673533	175.0	178.0	
126 2,4,5-Trichlorotoluene	159	16.007	16.007	0.000	0	490754	175.0	193.1	
127 2,3,6-Trichlorotoluene	159	16.111	16.110	0.000	94	460224	175.0	190.9	
145 2,3-Dichlorotoluene	1		0.000				ND	ND	
147 2,6-Dichlorotoluene	1		0.000				ND	ND	
146 3,4-Dichlorotoluene	1		0.000				ND	ND	
144 2,4-Dichlorotoluene	1		0.000				ND	ND	
143 2,5-Dichlorotoluene	1		0.000				ND	ND	
S 130 1,2-Dichloroethene, Total	96				0		350.0	347.4	
S 131 Xylenes, Total	106				0		350.0	344.3	
S 132 1,3-Dichloropropene, Total	1				0		350.0	395.5	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

VOA8260SURR_00039	Amount Added:	7.00	Units: uL	
voaWket1Reste_00001	Amount Added:	7.00	Units: uL	
voaWeemix1Res_00001	Amount Added:	7.00	Units: uL	
VOA8260VOAPRI_00134	Amount Added:	7.00	Units: uL	
voaWVA1st Res_00003	Amount Added:	7.00	Units: uL	
voaWAcro2nd R_00006	Amount Added:	9.00	Units: uL	
VOA8260INT_00039	Amount Added:	2.00	Units: uL	Run Reagent

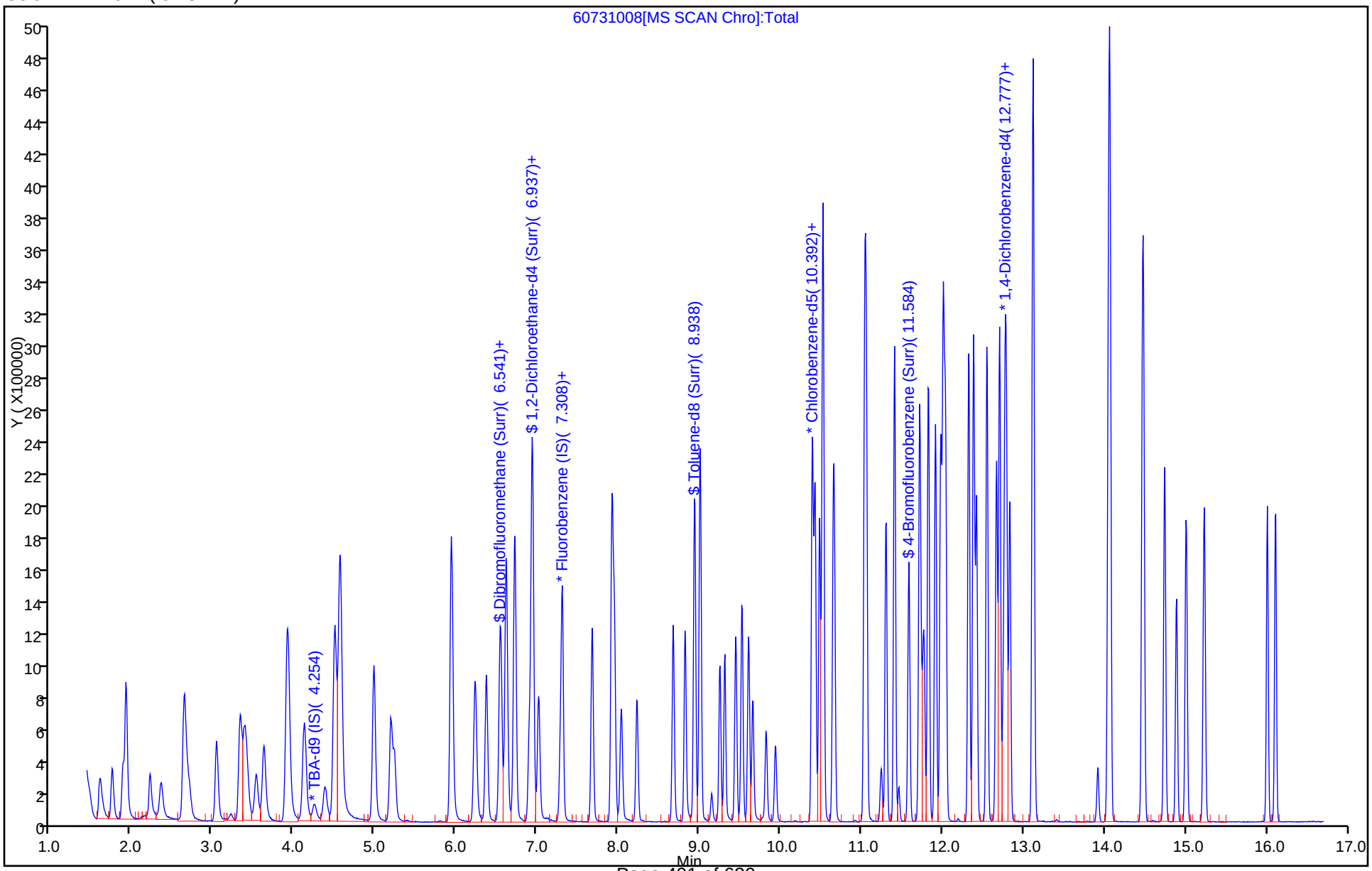
Report Date: 03-Aug-2015 12:16:03 Chrom Revision: 2.2 09-Jul-2015 10:16:20

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150731-7999.b\60731008.D

Injection Date:	31-Jul-2015 15:37:30	Instrument ID:	CHHP6	Operator ID:	001562
Lims ID:	IC VSTD35			Worklist Smp#:	8
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	MSVOA_LL_CHHP6	Limit Group:	VOA 8260C ICAL		

Column: DB-624 (0.18 mm)



Manual Integration/User Assign Peak Report

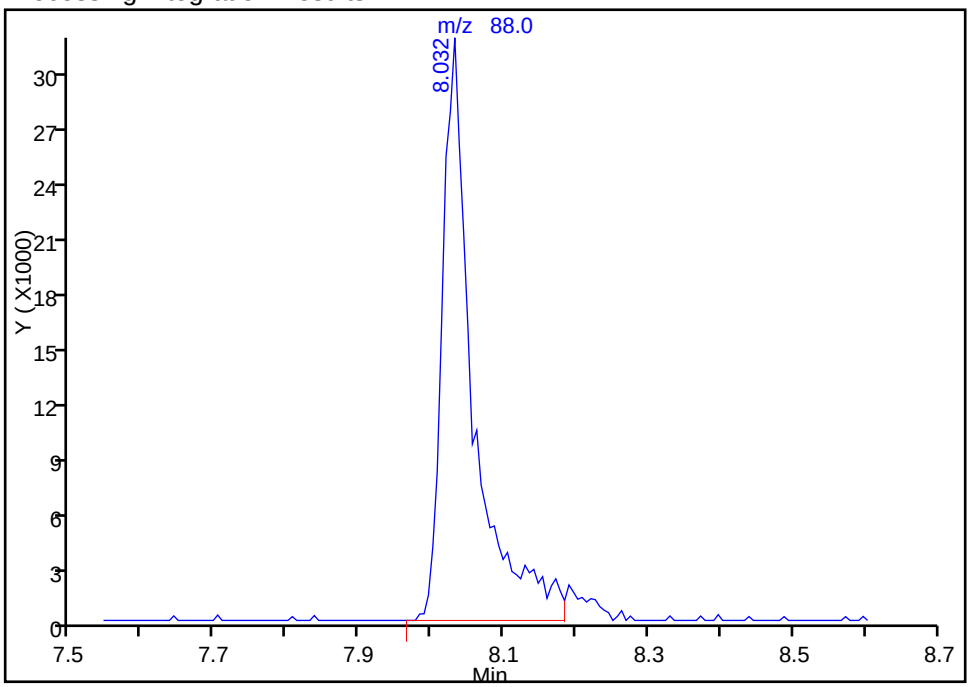
TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHHP6\20150731-7999.b\60731008.D				
Injection Date:	31-Jul-2015 15:37:30	Instrument ID:	CHHP6		
Lims ID:	IC VSTD35				
Client ID:					
Operator ID:	001562	ALS Bottle#:	8	Worklist Smp#:	8
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVOA_LL_CHHP6	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

65 1,4-Dioxane, CAS: 123-91-1

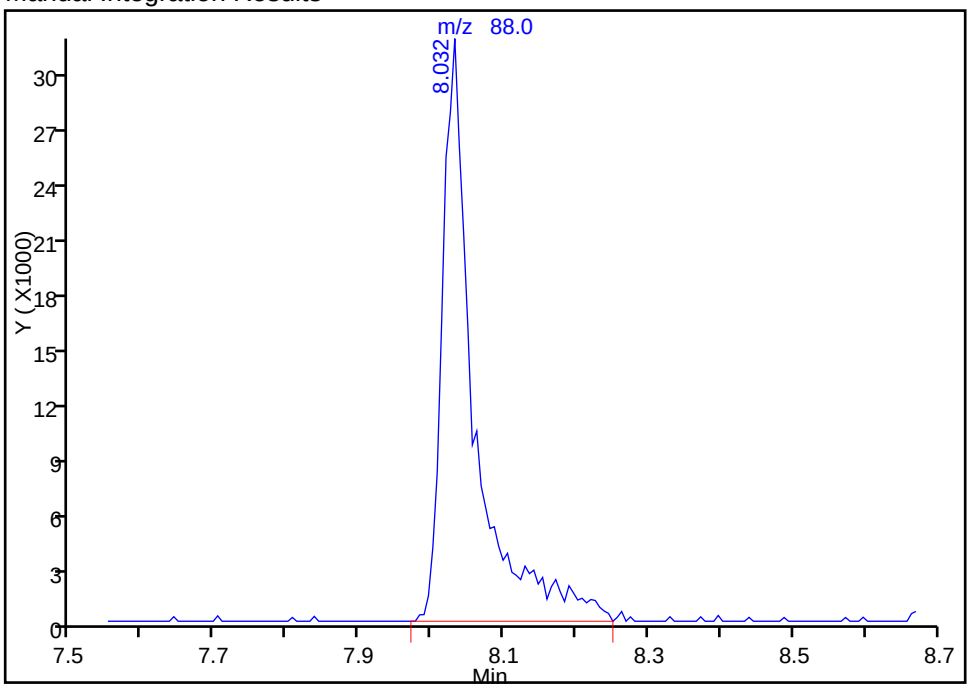
Processing Integration Results

RT: 8.03
Area: 94184
Amount: 3581.4908
Amount Units: ng



Manual Integration Results

RT: 8.03
Area: 98136
Amount: 3760.8433
Amount Units: ng



Reviewer: fergusond, 03-Aug-2015 10:13:21
Audit Action: Manually Integrated
Audit Reason: Peak Tail

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150731-7999.b\60731009.D
Lims ID: IC VSTD40
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 31-Jul-2015 16:01:30 ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC VSTD40
Misc. Info.: 180-0007999-009
Operator ID: 001562 Instrument ID: CHHP6
Sublist: chrom-MSVOA_LL_CHHP6*sub5

Method: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150731-7999.b\MSVOA_LL_CHHP6.m
Limit Group: VOA 8260C ICAL
Last Update: 03-Aug-2015 12:16:10 Calib Date: 31-Jul-2015 18:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150731-7999.b\60731014.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK049

First Level Reviewer: fergusond Date: 03-Aug-2015 10:06:32

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.253	4.247	0.006	92	190170	1000.0	1000.0	
* 2 Fluorobenzene (IS)	96	7.289	7.289	0.000	98	446456	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.398	10.398	0.000	89	103508	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.746	12.746	0.000	95	159598	50.0	50.0	
$ 5 Dibromofluoromethane (Surr	113	6.553	6.553	0.000	92	428779	200.0	208.5	
$ 6 1,2-Dichloroethane-d4 (Sur	65	6.930	6.930	0.000	72	668015	200.0	201.4	
$ 7 Toluene-d8 (Surr)	98	8.944	8.938	0.006	94	1563368	200.0	191.5	
$ 8 4-Bromofluorobenzene (Surr	95	11.584	11.584	0.000	81	722308	200.0	199.3	
11 Dichlorodifluoromethane	85	1.613	1.607	0.006	99	636192	200.0	205.8	
12 Chloromethane	50	1.759	1.759	0.000	99	522516	200.0	196.1	
13 Vinyl chloride	62	1.893	1.893	0.000	98	585198	200.0	203.9	
14 Butadiene	39	1.935	1.930	0.005	92	538199	200.0	200.0	
15 Bromomethane	94	2.233	2.228	0.005	91	263364	200.0	170.0	
16 Chloroethane	64	2.373	2.374	-0.001	99	402907	200.0	205.7	
17 Dichlorofluoromethane	67	2.647	2.654	-0.007	98	899692	200.0	197.3	
18 Trichlorofluoromethane	101	2.672	2.678	-0.006	99	726249	200.0	199.7	
20 Ethyl ether	59	3.049	3.043	0.006	89	523507	200.0	203.1	
21 Acrolein	56	3.225	3.213	0.012	96	76429	250.0	271.9	
22 1,1-Dichloroethene	96	3.341	3.341	0.000	99	476887	200.0	212.2	
23 1,1,2-Trichloro-1,2,2-trif	101	3.395	3.402	-0.007	95	481169	200.0	202.8	
24 Acetone	43	3.432	3.432	0.000	100	317270	400.0	401.7	
25 Iodomethane	142	3.529	3.530	-0.001	99	655616	200.0	217.3	
26 Carbon disulfide	76	3.627	3.633	-0.006	100	1330649	200.0	228.5	
29 3-Chloro-1-propene	76	3.906	3.913	-0.007	88	293887	200.0	231.9	
30 Methyl acetate	43	3.925	3.925	0.000	96	1914014	1000.0	1033.4	
31 Methylene Chloride	84	4.125	4.132	-0.007	91	611401	200.0	212.7	
32 2-Methyl-2-propanol	59	4.381	4.369	0.012	93	426462	2000.0	1992.8	
33 Acrylonitrile	53	4.503	4.497	0.006	97	1961872	2000.0	2101.3	
34 trans-1,2-Dichloroethene	96	4.563	4.564	-0.001	97	548086	200.0	211.3	
35 Methyl tert-butyl ether	73	4.576	4.576	0.000	98	1687770	200.0	217.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
36 Hexane	57	4.989	4.990	-0.001	91	736641	200.0	209.6	
37 1,1-Dichloroethane	63	5.196	5.196	0.000	97	980644	200.0	211.2	
38 Vinyl acetate	43	5.239	5.239	0.000	97	867464	200.0	231.4	
43 cis-1,2-Dichloroethene	96	5.944	5.939	0.005	85	595718	200.0	211.2	
44 2-Butanone (MEK)	43	5.944	5.945	-0.001	98	470276	400.0	436.3	
42 2,2-Dichloropropane	77	5.944	5.945	-0.001	66	535345	200.0	228.0	
48 Chlorobromomethane	128	6.230	6.225	0.005	97	240962	200.0	212.7	
49 Tetrahydrofuran	42	6.243	6.237	0.005	83	305718	400.0	421.1	
50 Chloroform	83	6.376	6.371	0.005	94	959266	200.0	208.2	
51 1,1,1-Trichloroethane	97	6.541	6.541	0.000	98	756837	200.0	222.3	
52 Cyclohexane	56	6.620	6.620	0.000	92	919827	200.0	210.8	
53 Carbon tetrachloride	117	6.717	6.717	0.000	97	536127	200.0	222.9	
54 1,1-Dichloropropene	75	6.729	6.730	-0.001	94	765806	200.0	209.1	
55 Isobutyl alcohol	41	6.906	6.900	0.006	92	375937	5000.0	5820.2	
56 Benzene	78	6.942	6.942	0.000	99	2066671	200.0	198.6	
57 1,2-Dichloroethane	62	7.015	7.015	0.000	98	855052	200.0	204.0	
59 n-Heptane	43	7.307	7.307	0.000	87	588643	200.0	208.1	
61 Trichloroethene	130	7.678	7.679	-0.001	92	460676	200.0	212.3	
63 Methylcyclohexane	83	7.922	7.922	0.000	91	915285	200.0	207.8	
64 1,2-Dichloropropane	63	7.952	7.952	0.000	84	521174	200.0	209.7	
65 1,4-Dioxane	88	8.031	8.031	0.000	44	114196	4000.0	4654.3	M
67 Dibromomethane	93	8.037	8.037	0.000	92	323060	200.0	214.0	
68 Dichlorobromomethane	83	8.232	8.226	0.006	99	646107	200.0	227.8	
71 cis-1,3-Dichloropropene	75	8.676	8.676	0.000	94	745866	200.0	239.4	
72 4-Methyl-2-pentanone (MIBK	43	8.822	8.822	0.000	93	947711	400.0	445.4	
73 Toluene	91	9.010	9.011	-0.001	97	2002822	200.0	187.5	
74 trans-1,3-Dichloropropene	75	9.254	9.254	0.000	96	639831	200.0	236.0	
75 Ethyl methacrylate	69	9.315	9.315	0.000	88	671187	200.0	233.1	
76 1,1,2-Trichloroethane	97	9.448	9.449	-0.001	94	447467	200.0	202.6	
77 Tetrachloroethene	164	9.528	9.528	0.000	93	357911	200.0	196.5	
78 1,3-Dichloropropane	76	9.607	9.607	0.000	93	805963	200.0	197.5	
79 2-Hexanone	43	9.655	9.656	-0.001	95	604727	400.0	432.8	
81 Chlorodibromomethane	129	9.826	9.826	0.000	91	351983	200.0	233.5	
82 Ethylene Dibromide	107	9.941	9.936	0.005	98	414395	200.0	212.0	
83 3-Chlorobenzotrifluoride	180	10.398	10.392	0.006	93	658293	200.0	192.5	
84 Chlorobenzene	112	10.428	10.428	0.000	90	1270819	200.0	193.6	
85 4-Chlorobenzotrifluoride	180	10.483	10.483	0.000	96	626628	200.0	197.7	
86 1,1,1,2-Tetrachloroethane	131	10.519	10.520	-0.001	90	410261	200.0	228.0	
87 Ethylbenzene	106	10.525	10.526	-0.001	98	745552	200.0	201.3	
88 m-Xylene & p-Xylene	106	10.659	10.659	0.000	99	922542	200.0	200.7	
89 o-Xylene	106	11.042	11.037	0.005	96	942660	200.0	205.0	
90 Styrene	104	11.061	11.061	0.000	91	1451301	200.0	205.5	
91 Bromoform	173	11.243	11.243	0.000	93	188413	200.0	234.1	
92 2-Chlorobenzotrifluoride	180	11.304	11.304	0.000	94	695569	200.0	198.6	
93 Isopropylbenzene	105	11.407	11.408	-0.001	99	2143689	200.0	194.9	
96 1,1,2,2-Tetrachloroethane	83	11.712	11.712	0.000	97	595171	200.0	201.4	
95 Bromobenzene	156	11.724	11.724	0.000	98	533334	200.0	207.9	
97 trans-1,4-Dichloro-2-buten	53	11.754	11.748	0.006	78	183338	200.0	225.3	
98 1,2,3-Trichloropropane	110	11.772	11.773	-0.001	84	202262	200.0	207.3	
99 N-Propylbenzene	120	11.827	11.827	0.000	98	613443	200.0	207.6	
100 2-Chlorotoluene	126	11.912	11.913	-0.001	93	510216	200.0	208.0	
101 3-Chlorotoluene	126	11.979	11.980	-0.001	97	532252	200.0	206.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
102 1,3,5-Trimethylbenzene	105	12.010	12.010	0.000	94	1945327	200.0	202.5	
103 4-Chlorotoluene	126	12.040	12.034	0.006	100	540303	200.0	208.5	
104 tert-Butylbenzene	119	12.326	12.320	0.006	90	1580824	200.0	208.2	
106 1,2,4-Trimethylbenzene	105	12.381	12.381	0.000	98	2003823	200.0	204.0	
107 1,2-dichloro-4-(trifluorom	214	12.423	12.418	0.005	96	562570	200.0	202.1	
108 sec-Butylbenzene	105	12.551	12.545	0.006	97	2257148	200.0	199.2	
109 1,3-Dichlorobenzene	146	12.667	12.667	0.000	92	1017363	200.0	203.0	
110 4-Isopropyltoluene	119	12.703	12.703	0.000	94	1952987	200.0	205.4	
111 1,4-Dichlorobenzene	146	12.770	12.770	0.000	91	1040432	200.0	203.1	
113 2,4-Dichloro-1-(triflourom	214	12.788	12.789	-0.001	93	585295	200.0	211.4	
114 2,5-Dichlorobenzotrifluori	214	12.831	12.831	0.000	97	604585	200.0	195.5	
116 n-Butylbenzene	91	13.111	13.111	0.000	96	1931969	200.0	203.5	
117 1,2-Dichlorobenzene	146	13.123	13.123	0.000	93	1013269	200.0	200.2	
118 1,2-Dibromo-3-Chloropropan	75	13.914	13.920	-0.006	74	111156	200.0	239.6	
119 2,4- & 2,5- & 2,6- Dichlor	125	14.060	14.060	0.000	95	2621988	600.0	595.4	
121 2,3- & 3,4- Dichlorotoluen	125	14.473	14.474	-0.001	96	1989024	400.0	409.3	
122 1,2,4-Trichlorobenzene	180	14.741	14.741	0.000	92	829845	200.0	211.6	
123 Hexachlorobutadiene	225	14.887	14.887	0.000	97	324236	200.0	209.9	
124 Naphthalene	128	15.009	15.003	0.006	99	1744010	200.0	220.4	
125 1,2,3-Trichlorobenzene	180	15.228	15.228	0.000	92	768952	200.0	209.6	
126 2,4,5-Trichlorotoluene	159	16.006	16.007	-0.001	0	568870	200.0	230.9	
127 2,3,6-Trichlorotoluene	159	16.110	16.110	0.000	94	527070	200.0	225.5	
146 3,4-Dichlorotoluene	1		0.000				ND	ND	
147 2,6-Dichlorotoluene	1		0.000				ND	ND	
143 2,5-Dichlorotoluene	1		0.000				ND	ND	
145 2,3-Dichlorotoluene	1		0.000				ND	ND	
144 2,4-Dichlorotoluene	1		0.000				ND	ND	
S 130 1,2-Dichloroethene, Total	96				0		400.0	422.6	
S 131 Xylenes, Total	106				0		400.0	405.8	
S 132 1,3-Dichloropropene, Total	1				0		400.0	475.4	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

VOA8260SURR_00039	Amount Added:	8.00	Units: uL	
voaWAcro2nd R_00006	Amount Added:	10.00	Units: uL	
voaWket1Reste_00001	Amount Added:	8.00	Units: uL	
voaWeemix1Res_00001	Amount Added:	8.00	Units: uL	
voaWVA1st Res_00003	Amount Added:	8.00	Units: uL	
VOA8260VOAPRI_00134	Amount Added:	8.00	Units: uL	
VOA8260INT_00039	Amount Added:	2.00	Units: uL	Run Reagent

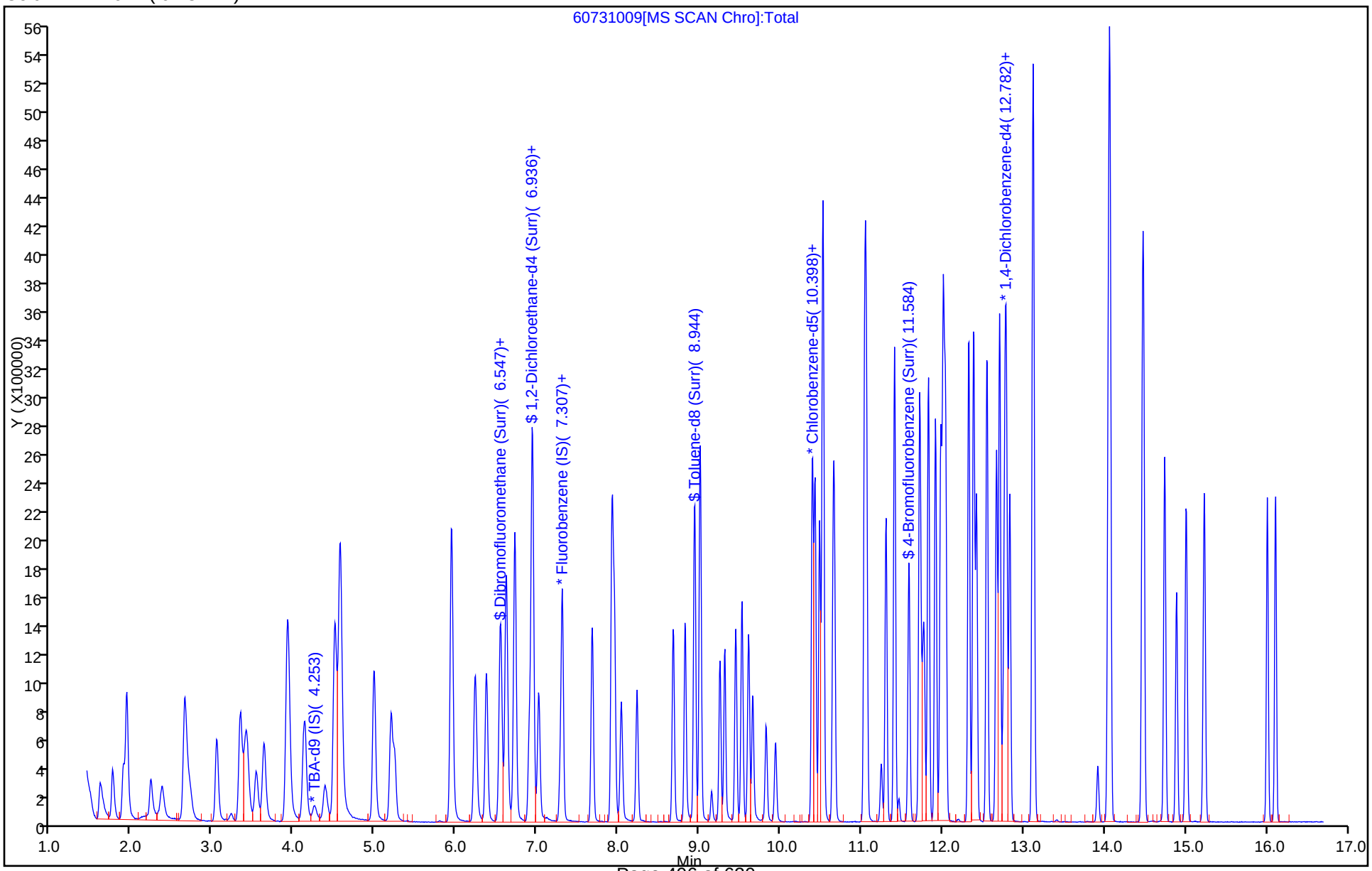
Report Date: 03-Aug-2015 12:16:13 Chrom Revision: 2.2 09-Jul-2015 10:16:20

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150731-7999.b\60731009.D

Injection Date:	31-Jul-2015 16:01:30	Instrument ID:	CHHP6	Operator ID:	001562
Lims ID:	IC VSTD40			Worklist Smp#:	9
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	MSVOA_LL_CHHP6	Limit Group:	VOA 8260C ICAL		

Column: DB-624 (0.18 mm)



Manual Integration/User Assign Peak Report

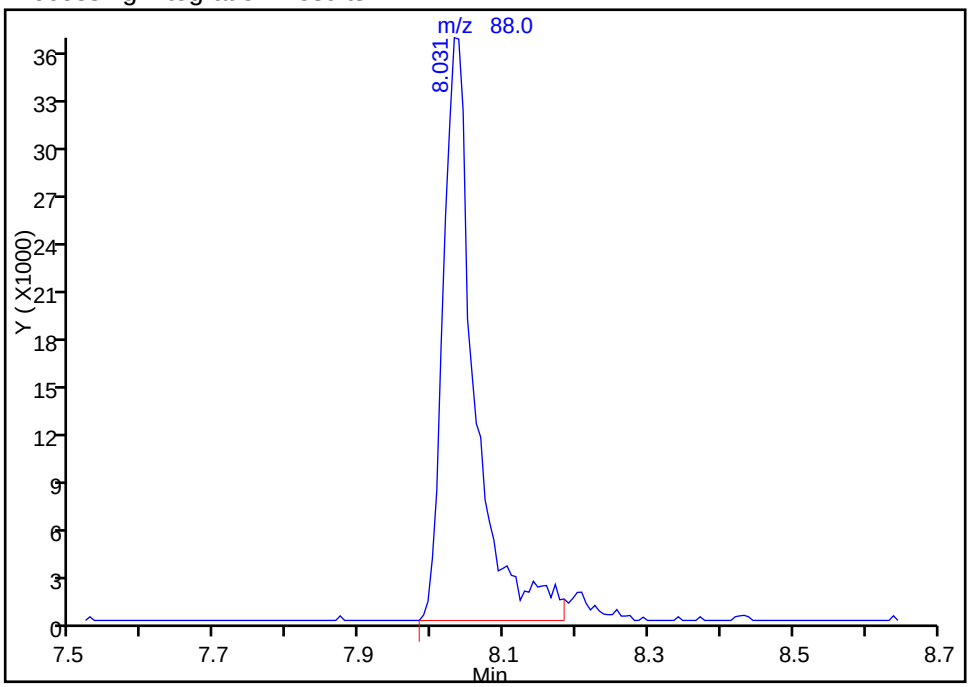
TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150731-7999.b\60731009.D
Injection Date: 31-Jul-2015 16:01:30 Instrument ID: CHHP6
Lims ID: IC VSTD40
Client ID:
Operator ID: 001562 ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

65 1,4-Dioxane, CAS: 123-91-1

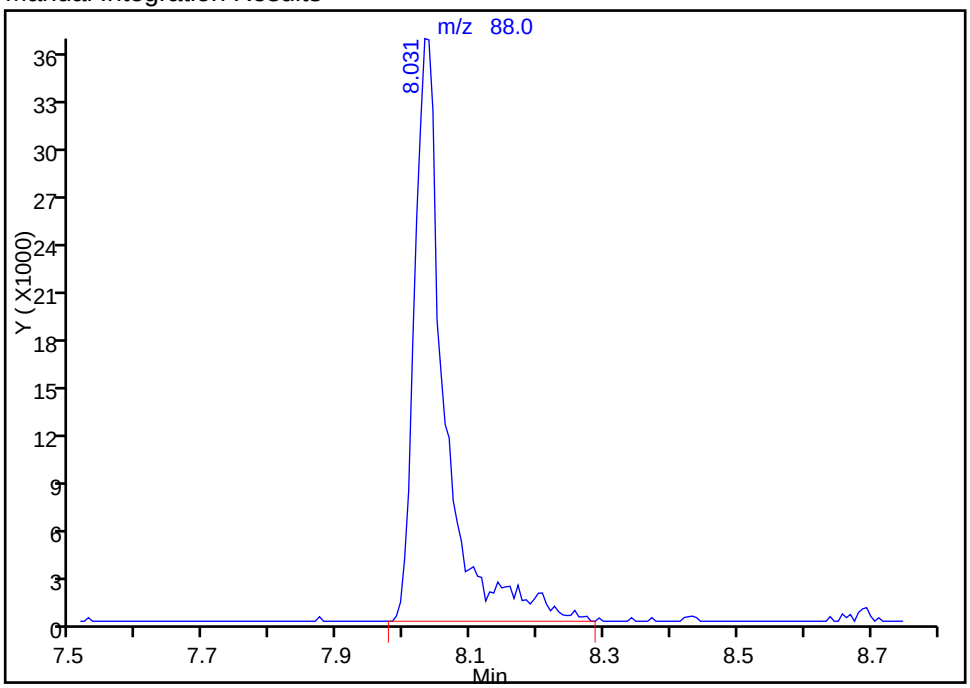
Processing Integration Results

RT: 8.03
Area: 109899
Amount: 4509.0182
Amount Units: ng



Manual Integration Results

RT: 8.03
Area: 114196
Amount: 4654.2617
Amount Units: ng



Reviewer: fergusond, 03-Aug-2015 10:06:32
Audit Action: Manually Integrated
Audit Reason: Peak Tail

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150731-7999.b\60731010.D
Lims ID: IC VSTD50
Client ID:
Sample Type: IC Calib Level: 8
Inject. Date: 31-Jul-2015 16:25:30 ALS Bottle#: 10 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC VSTD50
Misc. Info.: 180-0007999-010
Operator ID: 001562 Instrument ID: CHHP6
Sublist: chrom-MSVOA_LL_CHHP6*sub5

Method: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150731-7999.b\MSVOA_LL_CHHP6.m
Limit Group: VOA 8260C ICAL
Last Update: 03-Aug-2015 12:16:19 Calib Date: 31-Jul-2015 18:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150731-7999.b\60731014.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK049

First Level Reviewer: fergusond Date: 03-Aug-2015 10:08:16

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.266	4.247	0.019	94	205888	1000.0	1000.0	
* 2 Fluorobenzene (IS)	96	7.283	7.289	-0.006	98	472902	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.398	10.398	0.000	91	113483	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.746	12.746	0.000	92	168220	50.0	50.0	
$ 5 Dibromofluoromethane (Surr	113	6.553	6.553	0.000	92	510673	250.0	234.5	
$ 6 1,2-Dichloroethane-d4 (Sur	65	6.930	6.930	0.000	73	806396	250.0	229.5	
$ 7 Toluene-d8 (Surr)	98	8.938	8.938	0.000	94	1832665	250.0	204.7	
$ 8 4-Bromofluorobenzene (Surr	95	11.584	11.584	0.000	80	863895	250.0	217.4	
11 Dichlorodifluoromethane	85	1.607	1.607	0.000	100	776950	250.0	237.3	
12 Chloromethane	50	1.759	1.759	0.000	99	661756	250.0	234.5	
13 Vinyl chloride	62	1.893	1.893	0.000	99	729853	250.0	240.1	
14 Butadiene	39	1.936	1.930	0.006	90	668636	250.0	234.6	
15 Bromomethane	94	2.228	2.228	0.000	91	301175	250.0	183.5	
16 Chloroethane	64	2.362	2.374	-0.012	98	495382	250.0	238.7	
17 Dichlorofluoromethane	67	2.647	2.654	-0.007	97	1120159	250.0	232.0	
18 Trichlorofluoromethane	101	2.660	2.678	-0.018	74	914267	250.0	237.4	
20 Ethyl ether	59	3.043	3.043	0.000	89	666334	250.0	244.1	
21 Acrolein	56	3.225	3.213	0.012	98	88331	275.0	296.7	
22 1,1-Dichloroethene	96	3.335	3.341	-0.006	98	604031	250.0	253.7	
23 1,1,2-Trichloro-1,2,2-trif	101	3.396	3.402	-0.006	95	613669	250.0	244.2	
24 Acetone	43	3.432	3.432	0.000	100	446823	500.0	534.1	
25 Iodomethane	142	3.530	3.530	0.000	99	830188	250.0	259.8	
26 Carbon disulfide	76	3.627	3.633	-0.006	100	1688724	250.0	273.8	
29 3-Chloro-1-propene	76	3.913	3.913	0.000	87	379717	250.0	282.9	
30 Methyl acetate	43	3.925	3.925	0.000	96	2441128	1250.0	1244.3	
31 Methylene Chloride	84	4.126	4.132	-0.006	90	760977	250.0	250.8	
32 2-Methyl-2-propanol	59	4.387	4.369	0.018	93	559063	2500.0	2413.0	
33 Acrylonitrile	53	4.503	4.497	0.006	97	2461613	2500.0	2489.1	
34 trans-1,2-Dichloroethene	96	4.564	4.564	0.000	97	687783	250.0	250.4	
35 Methyl tert-butyl ether	73	4.576	4.576	0.000	98	2105039	250.0	255.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
36 Hexane	57	4.984	4.990	-0.006	92	945322	250.0	253.9	
37 1,1-Dichloroethane	63	5.196	5.196	0.000	96	1227440	250.0	249.6	
38 Vinyl acetate	43	5.239	5.239	0.000	97	1104555	250.0	278.2	
43 cis-1,2-Dichloroethene	96	5.945	5.939	0.006	83	751398	250.0	251.5	
44 2-Butanone (MEK)	43	5.945	5.945	0.000	98	588377	500.0	515.3	
42 2,2-Dichloropropane	77	5.939	5.945	-0.006	66	694588	250.0	279.3	
48 Chlorobromomethane	128	6.225	6.225	0.000	97	308059	250.0	256.7	
49 Tetrahydrofuran	42	6.243	6.237	0.006	83	413888	500.0	538.2	
50 Chloroform	83	6.371	6.371	0.000	95	1195678	250.0	244.9	
51 1,1,1-Trichloroethane	97	6.535	6.541	-0.006	98	957300	250.0	265.4	
52 Cyclohexane	56	6.614	6.620	-0.006	91	1159567	250.0	250.9	
53 Carbon tetrachloride	117	6.717	6.717	0.000	89	690480	250.0	271.0	
54 1,1-Dichloropropene	75	6.729	6.730	-0.001	93	968671	250.0	249.7	
55 Isobutyl alcohol	41	6.900	6.900	0.000	91	482886	6250.0	7057.9	
56 Benzene	78	6.942	6.942	0.000	99	2526807	250.0	229.3	
57 1,2-Dichloroethane	62	7.015	7.015	0.000	98	1055651	250.0	237.8	
59 n-Heptane	43	7.307	7.307	0.000	87	756814	250.0	252.6	
61 Trichloroethene	130	7.678	7.679	-0.001	93	577638	250.0	251.3	
63 Methylcyclohexane	83	7.922	7.922	0.000	91	1169092	250.0	250.6	
64 1,2-Dichloropropane	63	7.952	7.952	0.000	86	664355	250.0	252.3	
65 1,4-Dioxane	88	8.031	8.031	0.000	44	139772	5000.0	5378.1	M
67 Dibromomethane	93	8.037	8.037	0.000	93	409028	250.0	255.8	
68 Dichlorobromomethane	83	8.232	8.226	0.006	99	821950	250.0	273.6	
71 cis-1,3-Dichloropropene	75	8.676	8.676	0.000	93	960857	250.0	291.2	
72 4-Methyl-2-pentanone (MIBK	43	8.822	8.822	0.000	93	1194590	500.0	512.0	
73 Toluene	91	9.011	9.011	0.000	97	2462377	250.0	210.3	
74 trans-1,3-Dichloropropene	75	9.254	9.254	0.000	96	837722	250.0	281.8	
75 Ethyl methacrylate	69	9.315	9.315	0.000	88	855316	250.0	270.9	
76 1,1,2-Trichloroethane	97	9.449	9.449	0.000	93	567107	250.0	234.2	
77 Tetrachloroethene	164	9.522	9.528	-0.006	92	461983	250.0	231.3	
78 1,3-Dichloropropane	76	9.607	9.607	0.000	92	1022129	250.0	228.4	
79 2-Hexanone	43	9.656	9.656	0.000	93	790089	500.0	515.7	
81 Chlorodibromomethane	129	9.820	9.826	-0.006	90	451973	250.0	273.4	
82 Ethylene Dibromide	107	9.942	9.936	0.006	98	526477	250.0	245.7	
83 3-Chlorobenzotrifluoride	180	10.392	10.392	0.000	92	786880	250.0	209.9	
84 Chlorobenzene	112	10.428	10.428	0.000	89	1585885	250.0	220.3	
85 4-Chlorobenzotrifluoride	180	10.483	10.483	0.000	96	739908	250.0	212.9	
86 1,1,1,2-Tetrachloroethane	131	10.519	10.520	-0.001	49	519653	250.0	263.5	
87 Ethylbenzene	106	10.526	10.526	0.000	97	943999	250.0	232.5	
88 m-Xylene & p-Xylene	106	10.659	10.659	0.000	97	1179895	250.0	234.2	
89 o-Xylene	106	11.043	11.037	0.006	96	1188451	250.0	235.8	
90 Styrene	104	11.061	11.061	0.000	93	1825312	250.0	235.8	
91 Bromoform	173	11.243	11.243	0.000	93	249108	250.0	282.3	
92 2-Chlorobenzotrifluoride	180	11.304	11.304	0.000	94	831476	250.0	216.5	
93 Isopropylbenzene	105	11.408	11.408	0.000	99	2614965	250.0	216.8	
96 1,1,2,2-Tetrachloroethane	83	11.712	11.712	0.000	97	764885	250.0	236.1	
95 Bromobenzene	156	11.724	11.724	0.000	98	665597	250.0	246.1	
97 trans-1,4-Dichloro-2-buten	53	11.754	11.748	0.006	83	239026	250.0	278.7	
98 1,2,3-Trichloropropane	110	11.773	11.773	0.000	85	257089	250.0	250.0	
99 N-Propylbenzene	120	11.827	11.827	0.000	96	793964	250.0	254.9	
100 2-Chlorotoluene	126	11.913	11.913	0.000	93	652311	250.0	252.3	
101 3-Chlorotoluene	126	11.979	11.980	-0.001	96	649907	250.0	239.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
102 1,3,5-Trimethylbenzene	105	12.010	12.010	0.000	96	2358116	250.0	232.9	
103 4-Chlorotoluene	126	12.034	12.034	0.000	99	684319	250.0	250.5	
104 tert-Butylbenzene	119	12.326	12.320	0.006	90	1949627	250.0	243.7	
106 1,2,4-Trimethylbenzene	105	12.381	12.381	0.000	97	2433681	250.0	235.0	
107 1,2-dichloro-4-(trifluorom	214	12.418	12.418	0.000	95	680073	250.0	231.8	
108 sec-Butylbenzene	105	12.545	12.545	0.000	96	2739728	250.0	229.4	
109 1,3-Dichlorobenzene	146	12.667	12.667	0.000	92	1267194	250.0	239.9	
110 4-Isopropyltoluene	119	12.703	12.703	0.000	93	2392925	250.0	238.8	
111 1,4-Dichlorobenzene	146	12.770	12.770	0.000	92	1287354	250.0	238.4	
113 2,4-Dichloro-1-(triflourom	214	12.789	12.789	0.000	96	641375	250.0	219.8	
114 2,5-Dichlorobenzotrifluori	214	12.831	12.831	0.000	97	781945	250.0	239.9	
116 n-Butylbenzene	91	13.111	13.111	0.000	95	2352259	250.0	235.1	
117 1,2-Dichlorobenzene	146	13.123	13.123	0.000	95	1249514	250.0	234.3	
118 1,2-Dibromo-3-Chloropropan	75	13.914	13.920	-0.006	73	147337	250.0	301.3	
119 2,4- & 2,5- & 2,6- Dichlor	125	14.060	14.060	0.000	93	3058923	750.0	659.0	
121 2,3- & 3,4- Dichlorotoluen	125	14.474	14.474	0.000	95	2357462	500.0	460.3	
122 1,2,4-Trichlorobenzene	180	14.741	14.741	0.000	92	1022001	250.0	247.3	
123 Hexachlorobutadiene	225	14.887	14.887	0.000	97	414314	250.0	254.5	
124 Naphthalene	128	15.003	15.003	0.000	98	2149836	250.0	257.7	
125 1,2,3-Trichlorobenzene	180	15.228	15.228	0.000	92	953082	250.0	246.4	
126 2,4,5-Trichlorotoluene	159	16.007	16.007	0.000	0	681135	250.0	262.3	
127 2,3,6-Trichlorotoluene	159	16.110	16.110	0.000	93	630961	250.0	256.1	
143 2,5-Dichlorotoluene	1		0.000				ND	ND	
147 2,6-Dichlorotoluene	1		0.000				ND	ND	
144 2,4-Dichlorotoluene	1		0.000				ND	ND	
145 2,3-Dichlorotoluene	1		0.000				ND	ND	
146 3,4-Dichlorotoluene	1		0.000				ND	ND	
S 130 1,2-Dichloroethene, Total	96				0		500.0	501.9	
S 131 Xylenes, Total	106				0		500.0	469.9	
S 132 1,3-Dichloropropene, Total	1				0		500.0	573.0	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

VOA8260SURR_00039	Amount Added:	10.00	Units: uL	
voaWVA1st Res_00003	Amount Added:	10.00	Units: uL	
voaWket1Reste_00001	Amount Added:	10.00	Units: uL	
voaWeemix1Res_00001	Amount Added:	10.00	Units: uL	
VOA8260VOAPRI_00134	Amount Added:	10.00	Units: uL	
voaWAcro2nd R_00006	Amount Added:	11.00	Units: uL	
VOA8260INT_00039	Amount Added:	2.00	Units: uL	Run Reagent

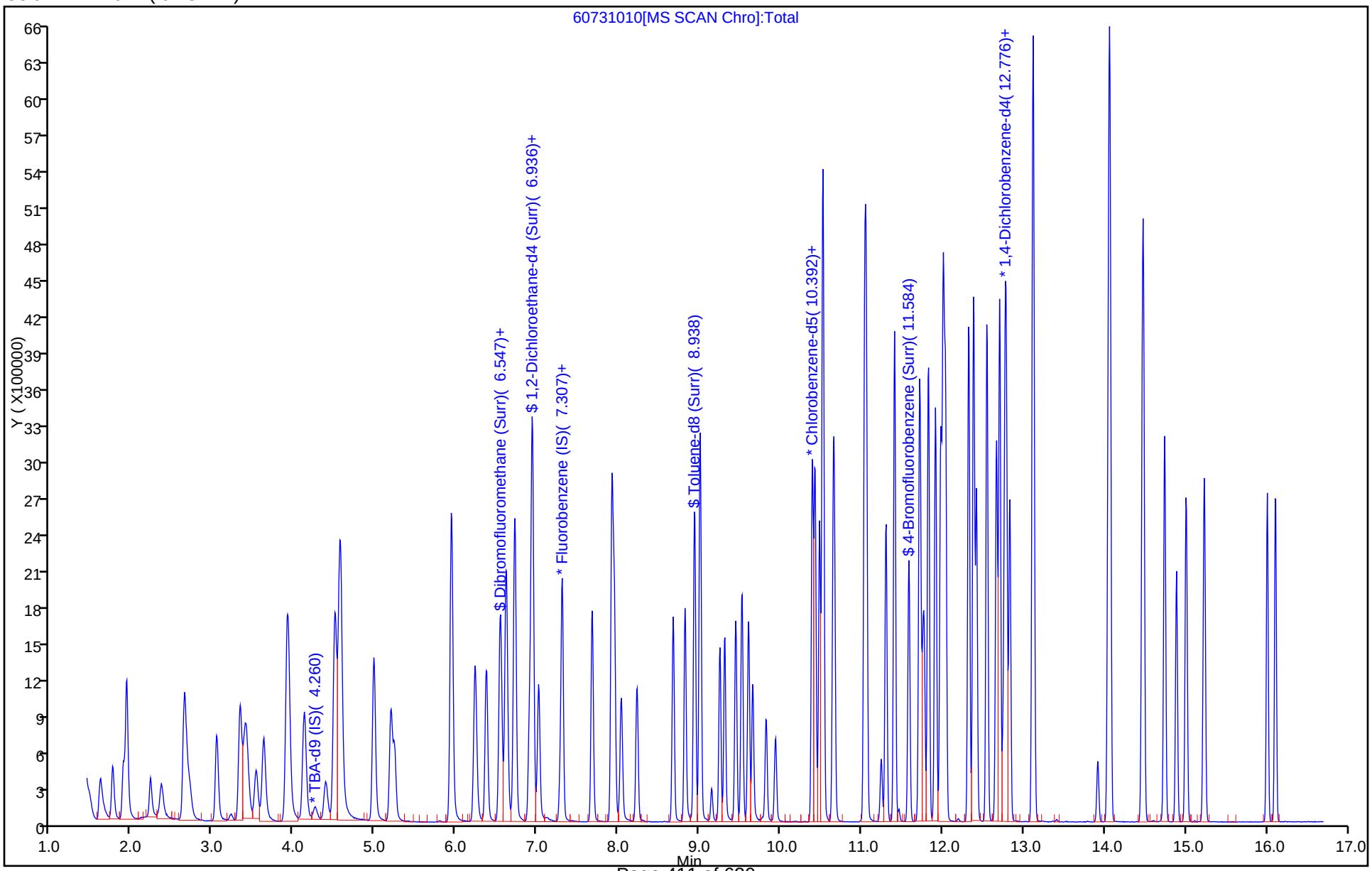
Report Date: 03-Aug-2015 12:16:21 Chrom Revision: 2.2 09-Jul-2015 10:16:20

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150731-7999.b\60731010.D

Injection Date:	31-Jul-2015 16:25:30	Instrument ID:	CHHP6	Operator ID:	001562
Lims ID:	IC VSTD50			Worklist Smp#:	10
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	MSVOA_LL_CHHP6	Limit Group:	VOA 8260C ICAL		

Column: DB-624 (0.18 mm)



Manual Integration/User Assign Peak Report

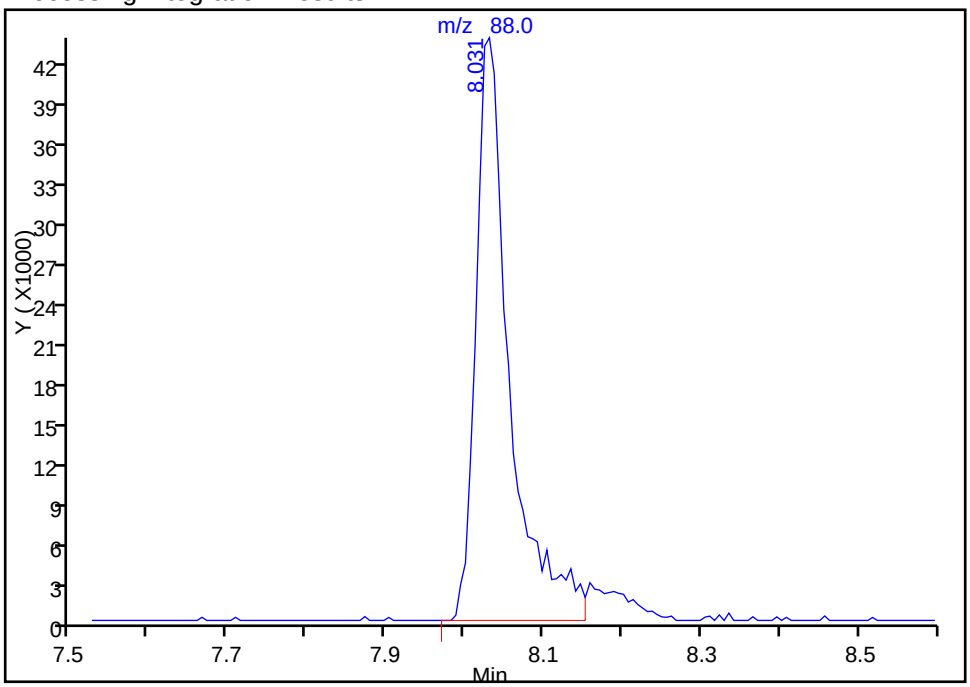
TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150731-7999.b\60731010.D
Injection Date: 31-Jul-2015 16:25:30 Instrument ID: CHHP6
Lims ID: IC VSTD50
Client ID:
Operator ID: 001562 ALS Bottle#: 10 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

65 1,4-Dioxane, CAS: 123-91-1

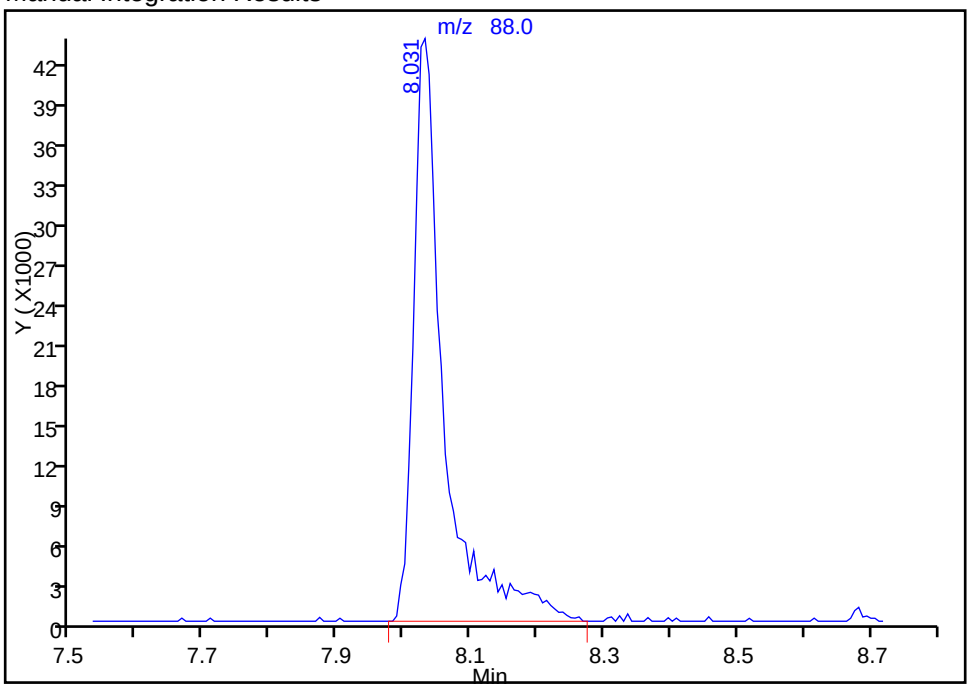
Processing Integration Results

RT: 8.03
Area: 130472
Amount: 5026.0517
Amount Units: ng



Manual Integration Results

RT: 8.03
Area: 139772
Amount: 5378.0842
Amount Units: ng



Reviewer: fergusond, 03-Aug-2015 10:08:16
Audit Action: Manually Integrated
Audit Reason: Peak Tail

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150731-7999.b\60731014.D
Lims ID: IC VSTD1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 31-Jul-2015 18:02:30 ALS Bottle#: 14 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC VSTD1
Misc. Info.: 180-0007999-014
Operator ID: 001562 Instrument ID: CHHP6
Sublist: chrom-MSVOA_LL_CHHP6*sub5

Method: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150731-7999.b\MSVOA_LL_CHHP6.m
Limit Group: VOA 8260C ICAL
Last Update: 03-Aug-2015 12:57:05 Calib Date: 31-Jul-2015 18:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150731-7999.b\60731014.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK049

First Level Reviewer: fergusond Date: 03-Aug-2015 11:05:58

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.242	4.248	-0.006	92	162667	1000.0	1000.0	
* 2 Fluorobenzene (IS)	96	7.284	7.284	0.000	98	456532	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.398	10.398	0.000	92	93799	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.746	12.747	-0.001	97	157240	50.0	50.0	
$ 5 Dibromofluoromethane (Surr	113	6.553	6.554	-0.001	89	11777	5.00	5.60	
$ 6 1,2-Dichloroethane-d4 (Sur	65	6.931	6.931	0.000	54	19952	5.00	5.88	
$ 7 Toluene-d8 (Surr)	98	8.938	8.938	0.000	94	41667	5.00	5.63	
$ 8 4-Bromofluorobenzene (Surr	95	11.585	11.585	0.000	77	19549	5.00	5.95	
11 Dichlorodifluoromethane	85	1.614	1.608	0.006	97	17276	5.00	5.46	
12 Chloromethane	50	1.754	1.754	0.000	99	15485	5.00	5.68	
13 Vinyl chloride	62	1.887	1.888	-0.001	62	15792	5.00	5.38	
14 Butadiene	39	1.930	1.930	0.000	93	15290	5.00	5.56	
15 Bromomethane	94	2.234	2.228	0.006	96	9521	5.00	6.01	
16 Chloroethane	64	2.356	2.368	-0.012	92	9922	5.00	4.95	
17 Dichlorofluoromethane	67	2.648	2.648	0.000	96	24941	5.00	5.35	
18 Trichlorofluoromethane	101	2.684	2.660	0.024	51	19389	5.00	5.21	M
20 Ethyl ether	59	3.037	3.049	-0.012	90	14586	5.00	5.53	
21 Acrolein	56	3.220	3.220	0.000	99	28320	100.0	98.5	
22 1,1-Dichloroethene	96	3.335	3.341	-0.006	95	11872	5.00	5.17	
23 1,1,2-Trichloro-1,2,2-trif	101	3.396	3.390	0.006	53	13209	5.00	5.44	
24 Acetone	43	3.421	3.421	-0.001	99	22203	25.0	27.5	M
25 Iodomethane	142	3.542	3.536	0.006	81	14090	5.00	4.57	
26 Carbon disulfide	76	3.633	3.627	0.006	99	26146	5.00	4.39	
29 3-Chloro-1-propene	76	3.919	3.919	0.000	86	5562	5.00	4.29	
30 Methyl acetate	43	3.932	3.926	0.006	98	50033	25.0	26.4	
31 Methylene Chloride	84	4.132	4.132	0.000	94	30274	5.00	5.01	
32 2-Methyl-2-propanol	59	4.363	4.370	-0.007	86	9874	50.0	53.9	
33 Acrylonitrile	53	4.509	4.503	0.006	99	48723	50.0	51.0	M
34 trans-1,2-Dichloroethene	96	4.558	4.564	-0.006	70	13191	5.00	4.97	
35 Methyl tert-butyl ether	73	4.564	4.576	-0.012	98	41079	5.00	5.17	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
36 Hexane	57	4.984	4.990	-0.006	91	19223	5.00	5.35	
37 1,1-Dichloroethane	63	5.197	5.197	0.000	89	23168	5.00	4.88	
38 Vinyl acetate	43	5.246	5.240	0.006	96	17413	5.00	4.54	
43 cis-1,2-Dichloroethene	96	5.951	5.939	0.012	83	15010	5.00	5.20	
44 2-Butanone (MEK)	43	5.945	5.945	0.000	97	26408	25.0	24.0	
42 2,2-Dichloropropane	77	5.939	5.945	-0.006	57	9613	5.00	4.00	
48 Chlorobromomethane	128	6.231	6.231	0.000	95	6120	5.00	5.28	
49 Tetrahydrofuran	42	6.249	6.249	0.000	82	8204	10.0	11.1	
50 Chloroform	83	6.371	6.371	0.000	94	23924	5.00	5.08	
51 1,1,1-Trichloroethane	97	6.547	6.541	0.006	96	15055	5.00	4.32	M
52 Cyclohexane	56	6.608	6.620	-0.012	88	22688	5.00	5.09	
53 Carbon tetrachloride	117	6.712	6.718	-0.006	92	10435	5.00	4.24	
54 1,1-Dichloropropene	75	6.724	6.724	0.000	90	17924	5.00	4.79	
55 Isobutyl alcohol	41	6.900	6.900	0.000	80	7317	125.0	110.8	M
56 Benzene	78	6.943	6.943	0.000	96	59844	5.00	5.62	
57 1,2-Dichloroethane	62	7.016	7.016	0.000	98	23604	5.00	5.51	
59 n-Heptane	43	7.302	7.308	-0.006	86	14990	5.00	5.18	
61 Trichloroethene	130	7.679	7.679	0.000	89	11389	5.00	5.13	
63 Methylcyclohexane	83	7.916	7.922	-0.006	88	22772	5.00	5.06	
64 1,2-Dichloropropane	63	7.947	7.953	-0.006	86	13712	5.00	5.39	
65 1,4-Dioxane	88	8.026	8.032	-0.006	39	2321	100.0	92.5	
67 Dibromomethane	93	8.032	8.038	-0.006	92	7749	5.00	5.02	
68 Dichlorobromomethane	83	8.226	8.227	-0.001	96	11941	5.00	4.12	
71 cis-1,3-Dichloropropene	75	8.683	8.677	0.006	90	11797	5.00	3.70	
72 4-Methyl-2-pentanone (MIBK	43	8.829	8.823	0.006	96	42150	25.0	21.9	
73 Toluene	91	9.011	9.011	0.000	98	55394	5.00	5.72	
74 trans-1,3-Dichloropropene	75	9.255	9.255	0.000	97	8162	5.00	3.32	
75 Ethyl methacrylate	69	9.315	9.315	0.000	87	9928	5.00	3.80	
76 1,1,2-Trichloroethane	97	9.449	9.449	0.000	91	10927	5.00	5.46	
77 Tetrachloroethene	164	9.528	9.522	0.006	90	9096	5.00	5.51	
78 1,3-Dichloropropane	76	9.607	9.607	0.000	91	19746	5.00	5.34	
79 2-Hexanone	43	9.656	9.656	0.000	96	27957	25.0	22.1	
81 Chlorodibromomethane	129	9.826	9.826	0.000	88	4662	5.00	3.41	
82 Ethylene Dibromide	107	9.942	9.942	0.000	93	8796	5.00	4.97	
83 3-Chlorobenzotrifluoride	180	10.392	10.392	0.000	56	18146	5.00	5.86	
84 Chlorobenzene	112	10.429	10.429	0.000	93	33099	5.00	5.56	
85 4-Chlorobenzotrifluoride	180	10.490	10.483	0.007	96	15713	5.00	5.47	
86 1,1,1,2-Tetrachloroethane	131	10.514	10.520	-0.006	40	6472	5.00	3.97	
87 Ethylbenzene	106	10.532	10.526	0.006	98	17773	5.00	5.30	
88 m-Xylene & p-Xylene	106	10.654	10.660	-0.006	97	21283	5.00	5.11	
89 o-Xylene	106	11.037	11.043	-0.006	96	20074	5.00	4.82	
90 Styrene	104	11.061	11.061	0.000	93	28385	5.00	4.44	
91 Bromoform	173	11.244	11.244	0.000	35	2602	5.00	3.57	
92 2-Chlorobenzotrifluoride	180	11.305	11.305	0.000	92	16686	5.00	5.26	
93 Isopropylbenzene	105	11.408	11.408	0.000	96	49505	5.00	4.97	
96 1,1,2,2-Tetrachloroethane	83	11.712	11.712	0.000	73	13623	5.00	5.09	
95 Bromobenzene	156	11.724	11.725	-0.001	96	12814	5.00	5.07	
97 trans-1,4-Dichloro-2-buten	53	11.749	11.749	0.000	51	3433	5.00	4.28	
98 1,2,3-Trichloropropane	110	11.773	11.767	0.006	83	4898	5.00	5.10	
99 N-Propylbenzene	120	11.822	11.828	-0.006	99	13092	5.00	4.50	
100 2-Chlorotoluene	126	11.919	11.913	0.006	93	11155	5.00	4.62	
101 3-Chlorotoluene	126	11.980	11.980	0.000	97	11861	5.00	4.67	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
102 1,3,5-Trimethylbenzene	105	12.010	12.010	0.000	93	43612	5.00	4.61	
103 4-Chlorotoluene	126	12.035	12.041	-0.006	98	12056	5.00	4.72	
104 tert-Butylbenzene	119	12.321	12.321	0.000	92	34048	5.00	4.55	
106 1,2,4-Trimethylbenzene	105	12.381	12.382	-0.001	98	41890	5.00	4.33	
107 1,2-dichloro-4-(trifluorom	214	12.418	12.418	0.000	96	14947	5.00	5.45	
108 sec-Butylbenzene	105	12.546	12.546	0.000	96	50094	5.00	4.49	
109 1,3-Dichlorobenzene	146	12.661	12.667	-0.006	88	25334	5.00	5.13	
110 4-Isopropyltoluene	119	12.704	12.704	0.000	95	40061	5.00	4.28	
111 1,4-Dichlorobenzene	146	12.771	12.771	0.000	88	25908	5.00	5.13	
113 2,4-Dichloro-1-(triflourom	214	12.789	12.789	0.000	92	13852	5.00	5.08	
114 2,5-Dichlorobenzotrifluori	214	12.832	12.832	0.000	94	17529	5.00	5.75	
116 n-Butylbenzene	91	13.111	13.112	-0.001	98	43104	5.00	4.61	
117 1,2-Dichlorobenzene	146	13.130	13.124	0.006	93	27271	5.00	5.47	
118 1,2-Dibromo-3-Chloropropan	75	13.921	13.921	0.000	62	1637	5.00	3.58	
119 2,4- & 2,5- & 2,6- Dichlor	125	14.054	14.061	-0.007	98	64430	15.0	14.8	
121 2,3- & 3,4- Dichlorotoluen	125	14.480	14.474	0.006	97	44720	10.0	9.34	
122 1,2,4-Trichlorobenzene	180	14.742	14.736	0.006	88	18465	5.00	4.78	
123 Hexachlorobutadiene	225	14.888	14.888	0.000	91	7049	5.00	4.63	
124 Naphthalene	128	15.010	15.004	0.006	97	30879	5.00	3.96	
125 1,2,3-Trichlorobenzene	180	15.229	15.229	0.000	92	18575	5.00	5.14	
126 2,4,5-Trichlorotoluene	159	16.013	16.007	0.006	0	10257	5.00	4.23	
127 2,3,6-Trichlorotoluene	159	16.111	16.111	0.000	93	10609	5.00	4.61	
146 3,4-Dichlorotoluene	1		0.000				ND	ND	
147 2,6-Dichlorotoluene	1		0.000				ND	ND	
143 2,5-Dichlorotoluene	1		0.000				ND	ND	
145 2,3-Dichlorotoluene	1		0.000				ND	ND	
144 2,4-Dichlorotoluene	1		0.000				ND	ND	
S 130 1,2-Dichloroethene, Total	96				0		10.0	10.2	
S 131 Xylenes, Total	106				0		10.0	9.93	
S 132 1,3-Dichloropropene, Total	1				0		10.0	7.03	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

VOA8260SURR_00039	Amount Added:	0.20	Units: uL	
VOA8260VOAPRI_00134	Amount Added:	0.20	Units: uL	
voaWVA1st Res_00003	Amount Added:	0.20	Units: uL	
voaWeemix1Res_00001	Amount Added:	0.20	Units: uL	
voaWket1Reste_00001	Amount Added:	0.80	Units: uL	
voaWAcro2nd R_00006	Amount Added:	4.00	Units: uL	
VOA8260INT_00039	Amount Added:	2.00	Units: uL	Run Reagent

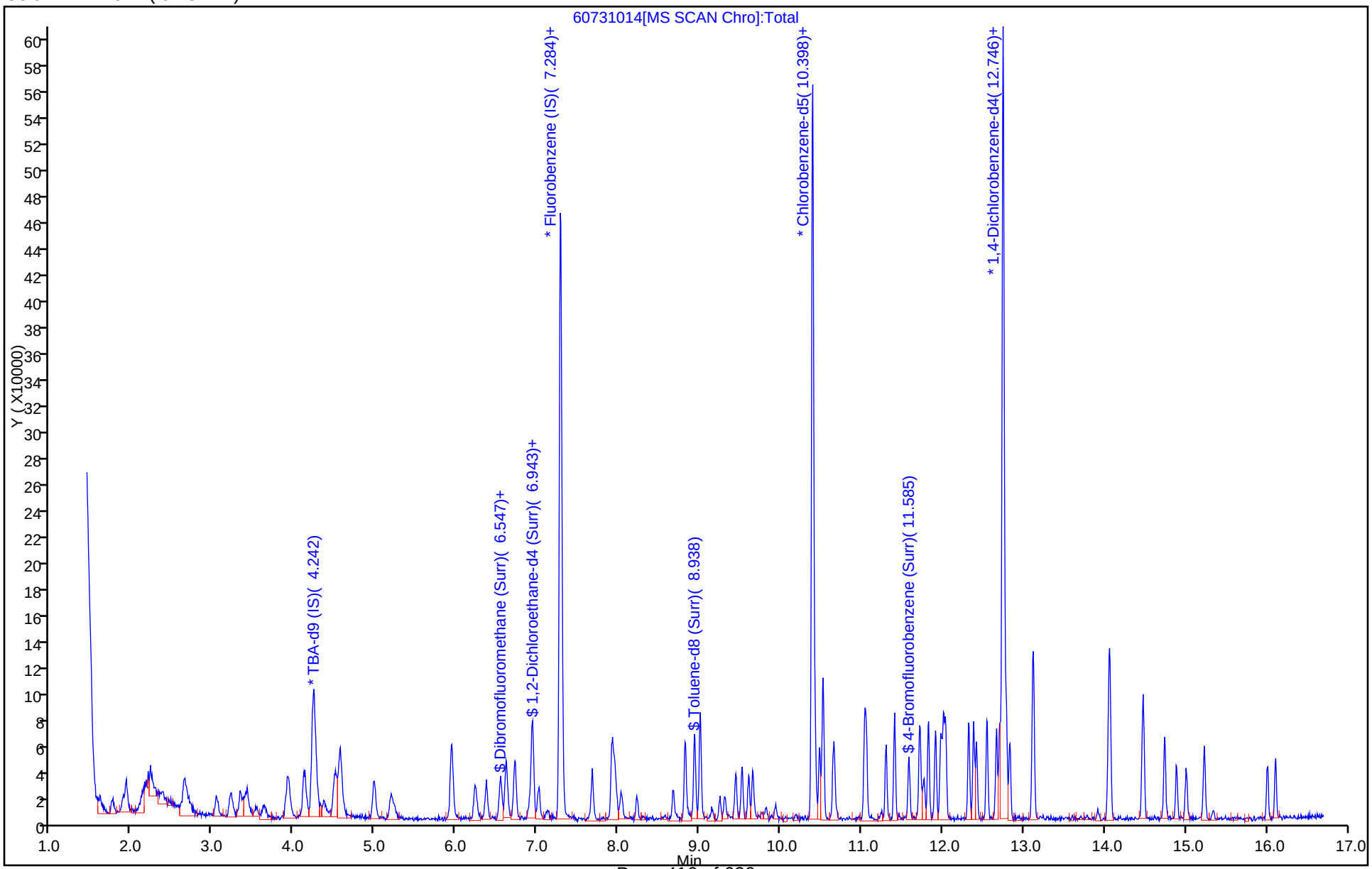
Report Date: 03-Aug-2015 12:57:06 Chrom Revision: 2.2 09-Jul-2015 10:16:20

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150731-7999.b\60731014.D

Injection Date:	31-Jul-2015 18:02:30	Instrument ID:	CHHP6	Operator ID:	001562
Lims ID:	IC VSTD1			Worklist Smp#:	14
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	MSVOA_LL_CHHP6	Limit Group:	VOA 8260C ICAL		

Column: DB-624 (0.18 mm)



Manual Integration/User Assign Peak Report

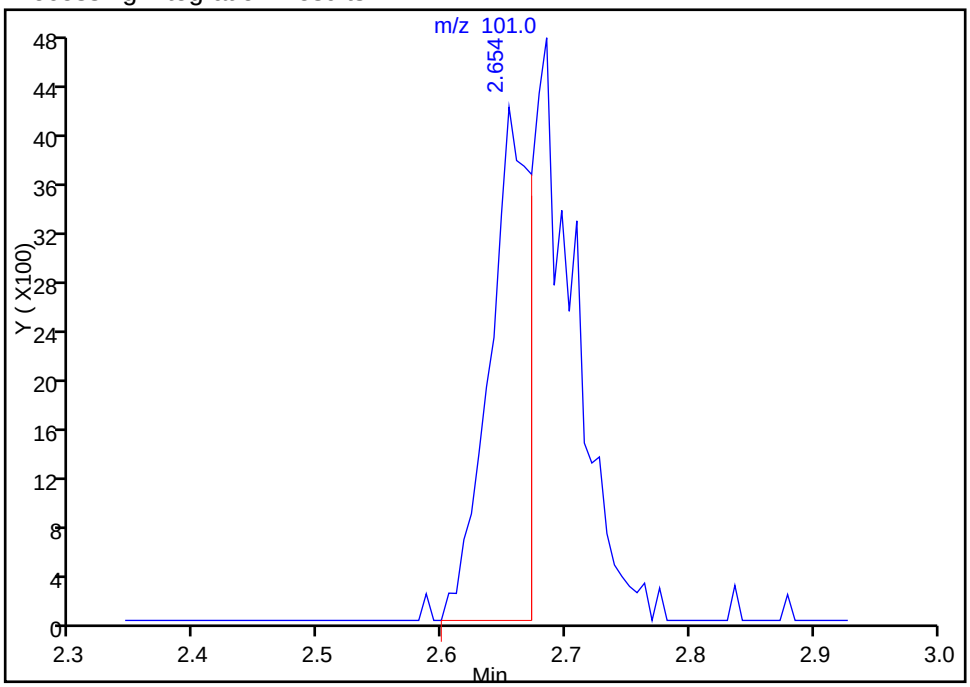
TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150731-7999.b\60731014.D
Injection Date: 31-Jul-2015 18:02:30 Instrument ID: CHHP6
Lims ID: IC VSTD1
Client ID:
Operator ID: 001562 ALS Bottle#: 14 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

18 Trichlorofluoromethane, CAS: 75-69-4

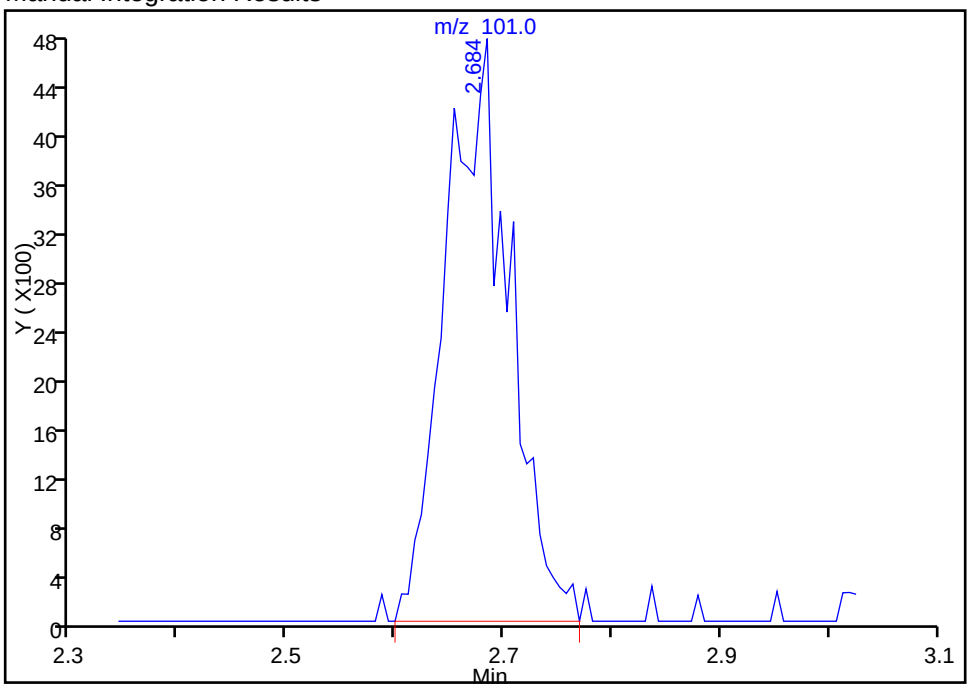
Processing Integration Results

RT: 2.65
Area: 9483
Amount: 2.504798
Amount Units: ng



Manual Integration Results

RT: 2.68
Area: 19389
Amount: 5.214616
Amount Units: ng



Reviewer: fergusond, 03-Aug-2015 11:05:58
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

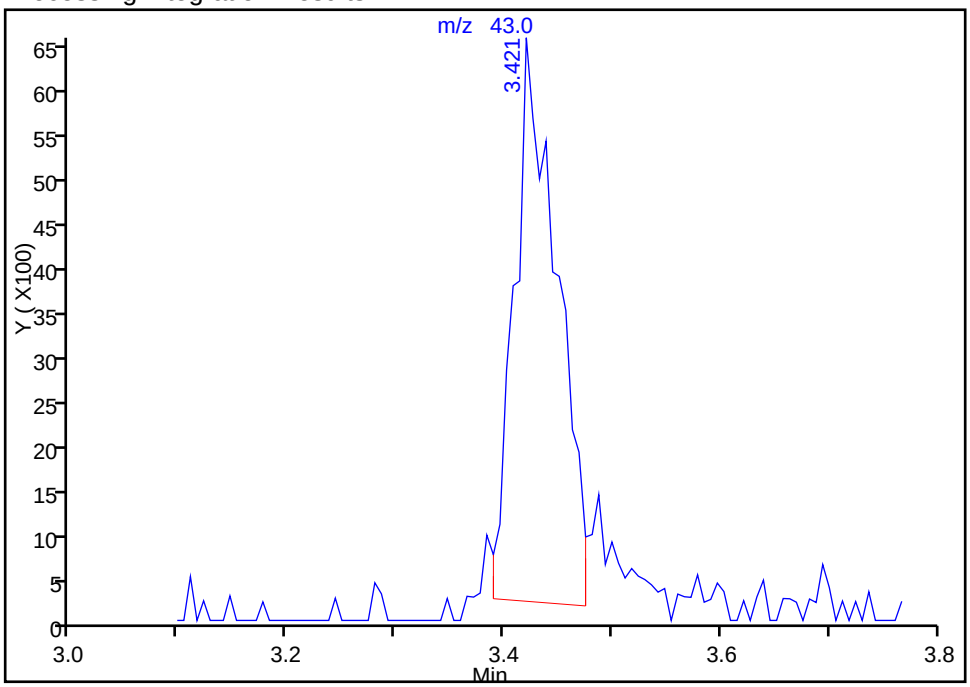
TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150731-7999.b\60731014.D
Injection Date: 31-Jul-2015 18:02:30 Instrument ID: CHHP6
Lims ID: IC VSTD1
Client ID:
Operator ID: 001562 ALS Bottle#: 14 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

24 Acetone, CAS: 67-64-1

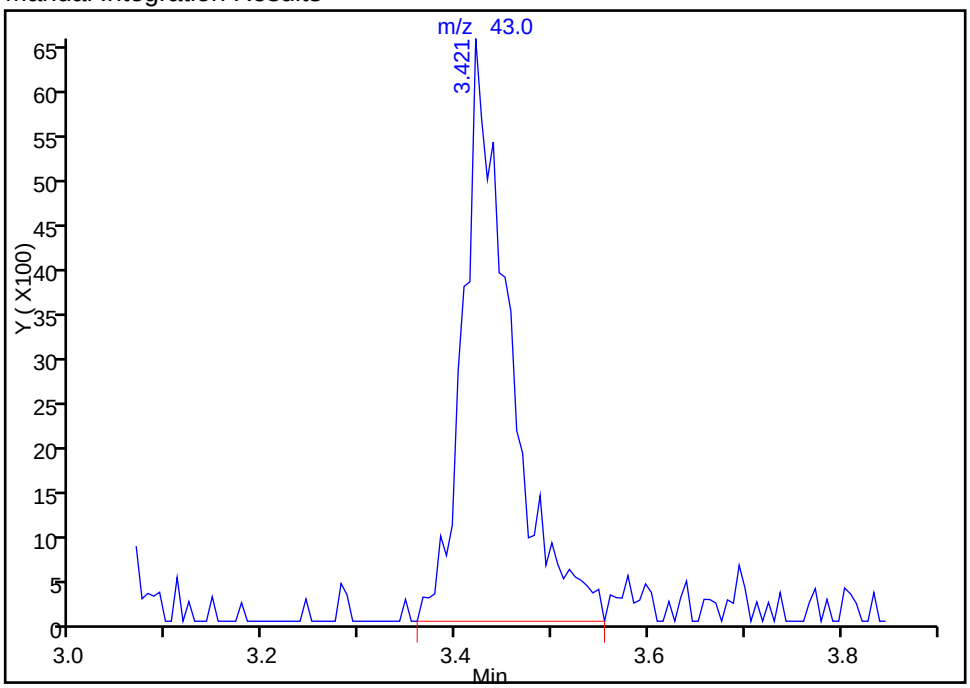
Processing Integration Results

RT: 3.42
Area: 17621
Amount: 21.931508
Amount Units: ng



Manual Integration Results

RT: 3.42
Area: 22203
Amount: 27.489890
Amount Units: ng



Reviewer: fergusond, 03-Aug-2015 11:05:58
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

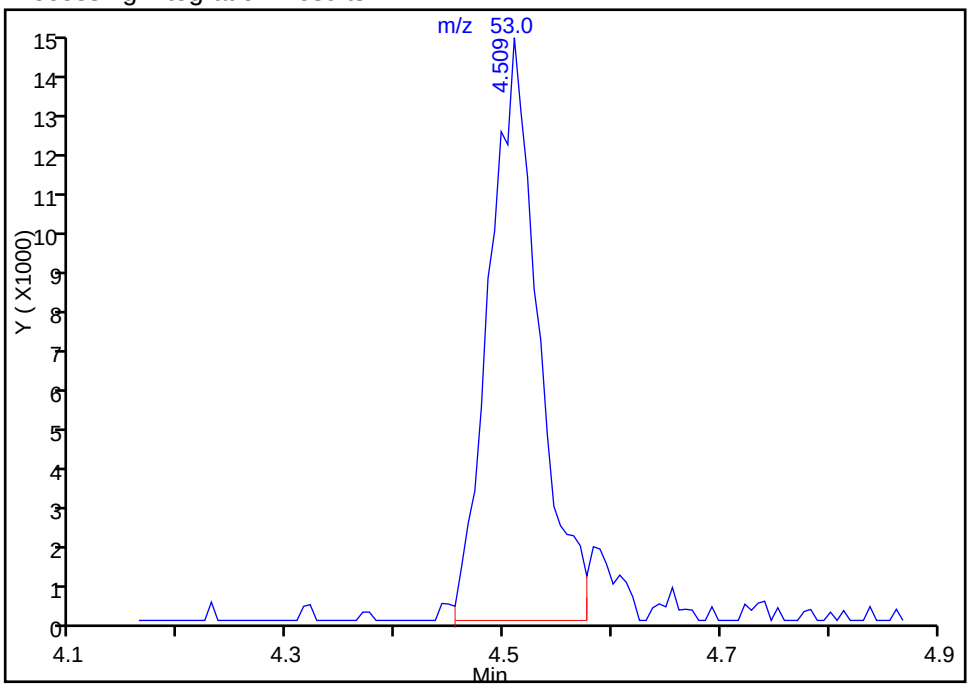
TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150731-7999.b\60731014.D
Injection Date: 31-Jul-2015 18:02:30 Instrument ID: CHHP6
Lims ID: IC VSTD1
Client ID:
Operator ID: 001562 ALS Bottle#: 14 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

33 Acrylonitrile, CAS: 107-13-1

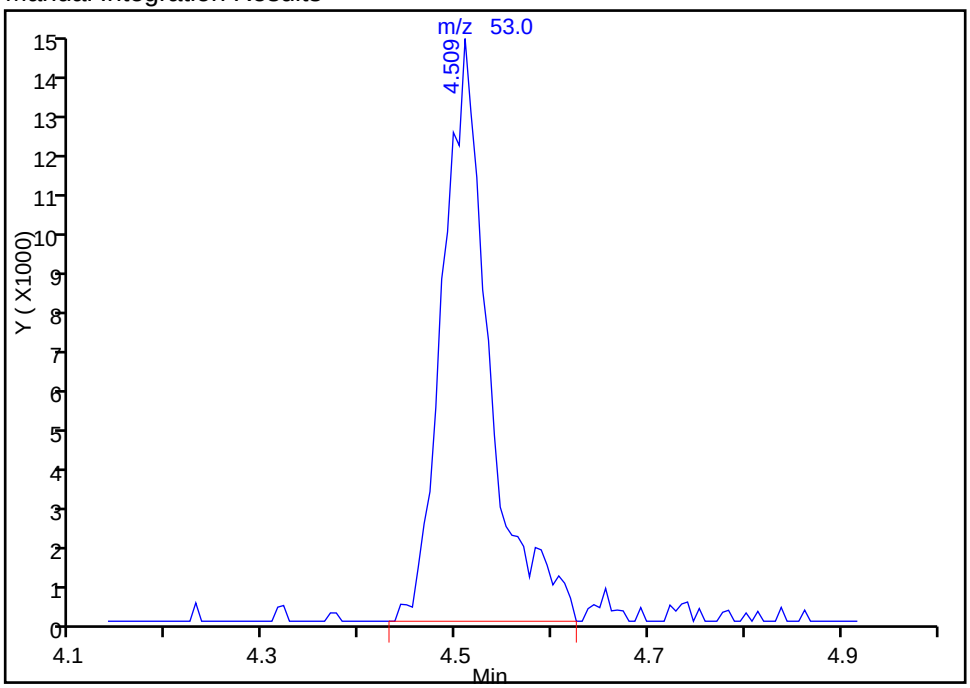
Processing Integration Results

RT: 4.51
Area: 45326
Amount: 48.323975
Amount Units: ng



Manual Integration Results

RT: 4.51
Area: 48723
Amount: 51.033411
Amount Units: ng



Reviewer: fergusond, 03-Aug-2015 11:05:58
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

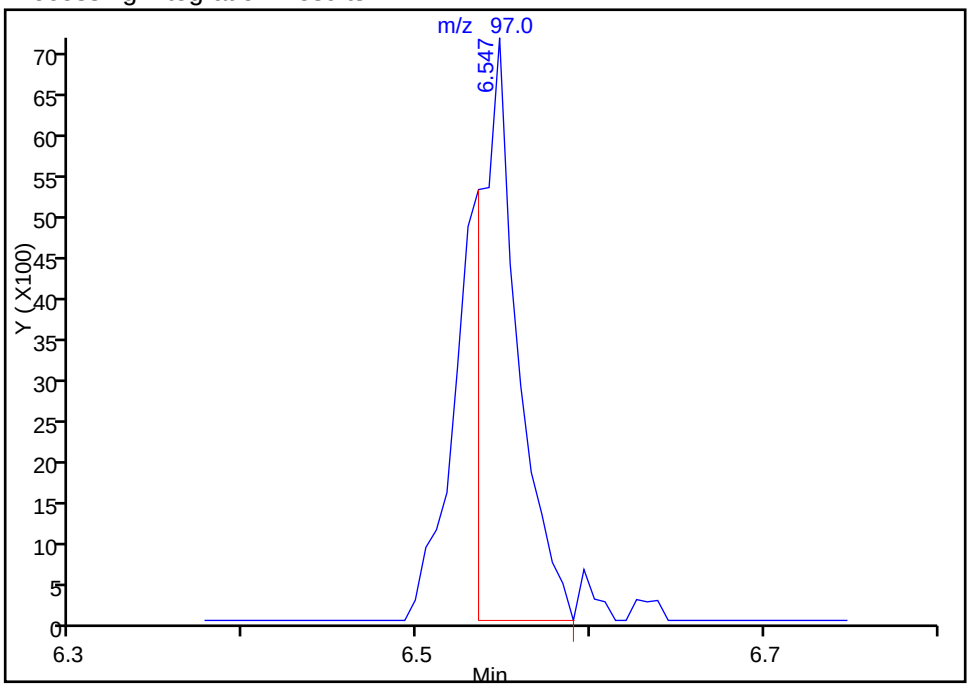
TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150731-7999.b\60731014.D
Injection Date: 31-Jul-2015 18:02:30 Instrument ID: CHHP6
Lims ID: IC VSTD1
Client ID:
Operator ID: 001562 ALS Bottle#: 14 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

51 1,1,1-Trichloroethane, CAS: 71-55-6

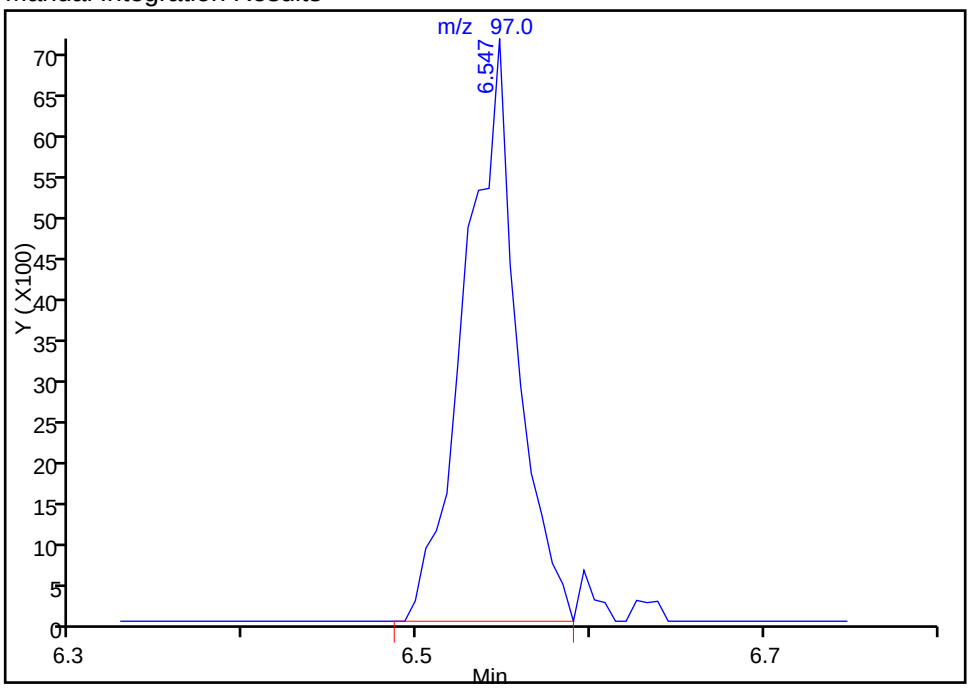
Processing Integration Results

RT: 6.55
Area: 10745
Amount: 3.045023
Amount Units: ng



Manual Integration Results

RT: 6.55
Area: 15055
Amount: 4.323691
Amount Units: ng



Reviewer: fergusond, 03-Aug-2015 11:05:58
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

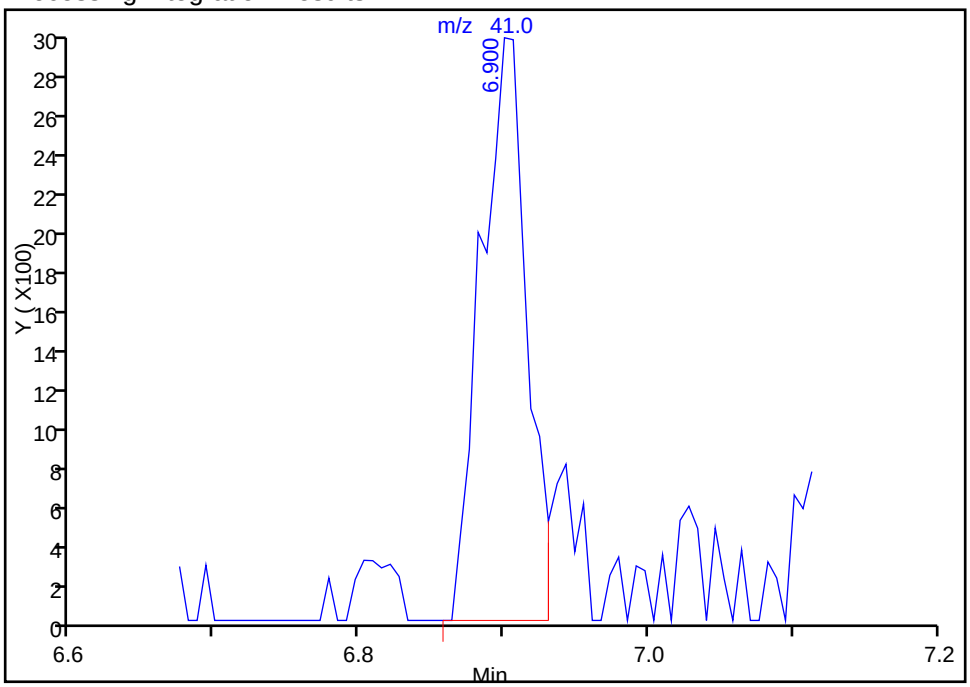
TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150731-7999.b\60731014.D
Injection Date: 31-Jul-2015 18:02:30 Instrument ID: CHHP6
Lims ID: IC VSTD1
Client ID:
Operator ID: 001562 ALS Bottle#: 14 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

55 Isobutyl alcohol, CAS: 78-83-1

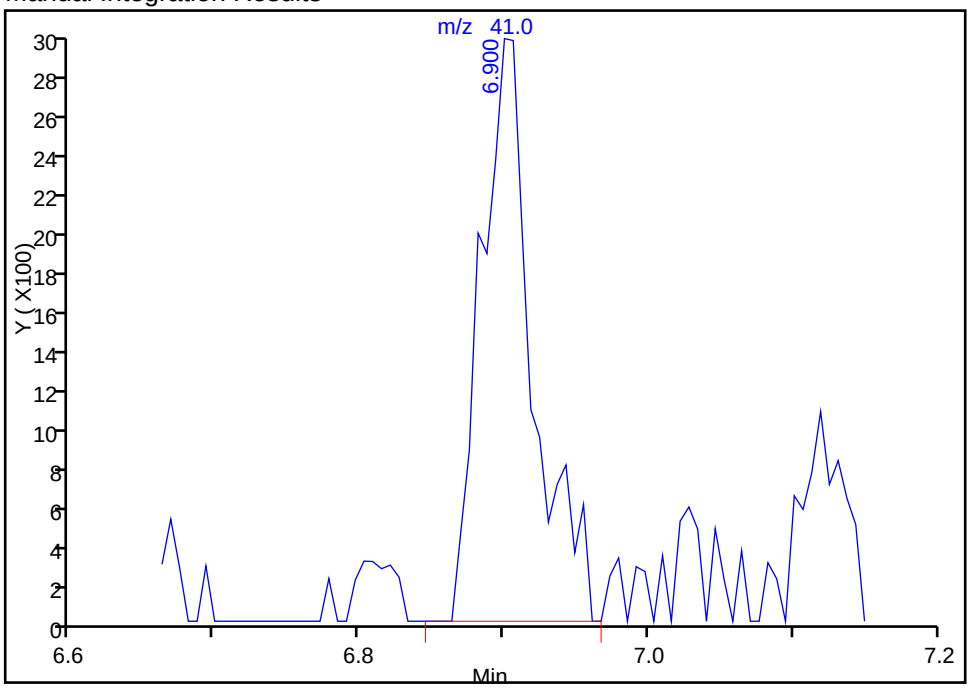
Processing Integration Results

RT: 6.90
Area: 6443
Amount: 97.511814
Amount Units: ng



Manual Integration Results

RT: 6.90
Area: 7317
Amount: 110.7809
Amount Units: ng



Reviewer: fergusond, 03-Aug-2015 11:05:58
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Pittsburgh Job No.: 180-48309-1

SDG No.:

Lab Sample ID: CCVIS 180-156309/5 Calibration Date: 10/08/2015 12:33

Instrument ID: CHHP5 Calib Start Date: 03/18/2015 13:31

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 03/18/2015 16:19

Lab File ID: 51008005.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2-Chloroethyl vinyl ether	Ave	0.1652	0.1803	0.0100	21.8	20.0	9.1	20.0

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151008-8892.b\51008005.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 08-Oct-2015 12:33:30 ALS Bottle#: 3 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: CCVIS
Misc. Info.: 180-0008892-005
Operator ID: 001562 Instrument ID: CHHP5
Sublist: chrom-MSVOA_LL_CHHP5*sub12

Method: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151008-8892.b\MSVOA_LL_CHHP5.m
Limit Group: VOA 8260C ICAL
Last Update: 08-Oct-2015 13:15:55 Calib Date: 26-Aug-2015 17:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20150826-8300.b\50826014.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK015

First Level Reviewer: fergusond Date: 08-Oct-2015 13:09:11

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.269	4.269	0.000	0	123647	1000.0	1000.0	
* 2 Fluorobenzene (IS)	96	7.286	7.286	0.000	98	342398	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.389	10.389	0.000	87	85766	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.731	12.731	0.000	92	125555	50.0	50.0	
$ 5 Dibromofluoromethane (Surr	113	6.562	6.562	0.000	94	78853	50.0	46.9	
$ 6 1,2-Dichloroethane-d4 (Sur	65	6.934	6.934	0.000	0	96515	50.0	41.8	
$ 7 Toluene-d8 (Surr)	98	8.935	8.935	0.000	94	323942	50.0	49.0	
$ 8 4-Bromofluorobenzene (Surr	95	11.569	11.569	0.000	91	113930	50.0	45.6	
11 Dichlorodifluoromethane	85	1.598	1.598	0.000	98	101212	50.0	52.3	
12 Chloromethane	50	1.769	1.769	0.000	99	116389	50.0	41.0	
13 Vinyl chloride	62	1.909	1.909	0.000	97	94016	50.0	37.3	
14 Butadiene	39	1.945	1.945	0.000	98	126209	50.0	42.4	
15 Bromomethane	94	2.255	2.255	0.000	89	38790	50.0	37.8	
16 Chloroethane	64	2.395	2.395	0.000	98	46570	50.0	30.6	
17 Dichlorofluoromethane	67	2.669	2.669	0.000	97	115360	50.0	35.8	
18 Trichlorofluoromethane	101	2.706	2.706	0.000	98	107714	50.0	44.6	
20 Ethyl ether	59	3.046	3.046	0.000	95	85438	50.0	38.2	
21 Acrolein	56	3.235	3.235	0.000	98	42911	150.0	128.8	
22 1,1-Dichloroethene	96	3.338	3.338	0.000	96	88789	50.0	46.6	
23 1,1,2-Trichloro-1,2,2-trif	101	3.423	3.423	0.000	92	96148	50.0	47.6	
24 Acetone	43	3.448	3.448	0.000	94	73160	100.0	105.9	
25 Iodomethane	142	3.539	3.539	0.000	98	136545	50.0	48.0	
26 Carbon disulfide	76	3.630	3.630	0.000	100	201549	50.0	45.5	
28 3-Chloro-1-propene	76	3.916	3.916	0.000	88	45805	50.0	42.4	
30 Methyl acetate	43	3.940	3.940	0.000	100	513576	250.0	248.8	
31 Methylene Chloride	84	4.135	4.135	0.000	98	106278	50.0	47.1	
32 2-Methyl-2-propanol	59	4.397	4.397	0.000	90	73361	500.0	527.1	
33 Acrylonitrile	53	4.525	4.525	0.000	98	481698	500.0	480.9	
34 trans-1,2-Dichloroethene	96	4.561	4.561	0.000	96	93247	50.0	45.0	
35 Methyl tert-butyl ether	73	4.573	4.573	0.000	96	218863	50.0	45.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
36 Hexane	57	4.987	4.987	0.000	96	168682	50.0	48.5	
37 1,1-Dichloroethane	63	5.200	5.200	0.000	96	180795	50.0	44.3	
38 Vinyl acetate	43	5.255	5.255	0.000	98	159946	50.0	52.3	
44 2,2-Dichloropropane	77	5.942	5.942	0.000	59	71742	50.0	43.9	
45 cis-1,2-Dichloroethene	96	5.954	5.954	0.000	83	101613	50.0	45.9	
46 2-Butanone (MEK)	43	5.960	5.960	0.000	82	106925	100.0	103.0	
49 Chlorobromomethane	128	6.234	6.234	0.000	95	49537	50.0	51.0	
51 Tetrahydrofuran	42	6.246	6.246	0.000	91	75220	100.0	90.3	
52 Chloroform	83	6.380	6.380	0.000	94	159892	50.0	45.4	
53 1,1,1-Trichloroethane	97	6.538	6.538	0.000	97	117170	50.0	45.0	
54 Cyclohexane	56	6.611	6.611	0.000	98	195272	50.0	44.8	
56 Carbon tetrachloride	117	6.715	6.715	0.000	96	106908	50.0	48.2	
55 1,1-Dichloropropene	75	6.733	6.733	0.000	90	129065	50.0	44.8	
57 Isobutyl alcohol	41	6.927	6.927	0.000	94	103323	1250.0	1584.6	
58 Benzene	78	6.946	6.946	0.000	97	390350	50.0	46.2	
59 1,2-Dichloroethane	62	7.025	7.025	0.000	96	124702	50.0	42.7	
62 n-Heptane	43	7.311	7.311	0.000	97	153258	50.0	48.5	
64 Trichloroethene	130	7.676	7.676	0.000	96	105784	50.0	51.2	
66 Methylcyclohexane	83	7.913	7.913	0.000	95	157272	50.0	48.3	
67 1,2-Dichloropropane	63	7.949	7.949	0.000	97	101955	50.0	46.0	
70 1,4-Dioxane	88	8.029	8.029	0.000	39	19727	1000.0	1291.6	M
68 Dibromomethane	93	8.035	8.035	0.000	91	52653	50.0	46.8	
71 Dichlorobromomethane	83	8.235	8.235	0.000	98	104259	50.0	46.9	
73 2-Chloroethyl vinyl ether	63	8.527	8.527	0.000	91	123440	100.0	109.1	
74 cis-1,3-Dichloropropene	75	8.673	8.673	0.000	90	121544	50.0	46.6	
75 4-Methyl-2-pentanone (MIBK	43	8.826	8.826	0.000	99	201662	100.0	95.4	
76 Toluene	91	9.002	9.002	0.000	98	415148	50.0	48.9	
77 trans-1,3-Dichloropropene	75	9.251	9.251	0.000	98	102185	50.0	46.1	
78 Ethyl methacrylate	69	9.312	9.312	0.000	95	103845	50.0	48.5	
79 1,1,2-Trichloroethane	97	9.446	9.446	0.000	92	81354	50.0	50.4	
80 Tetrachloroethene	164	9.519	9.519	0.000	97	90454	50.0	54.9	
81 1,3-Dichloropropane	76	9.604	9.604	0.000	98	140370	50.0	46.8	
82 2-Hexanone	43	9.659	9.659	0.000	99	160455	100.0	105.2	
84 Chlorodibromomethane	129	9.811	9.811	0.000	93	71574	50.0	51.2	
85 Ethylene Dibromide	107	9.927	9.927	0.000	99	77700	50.0	49.9	
86 3-Chlorobenzotrifluoride	180	10.389	10.389	0.000	87	149675	50.0	54.9	
87 Chlorobenzene	112	10.413	10.413	0.000	95	278043	50.0	50.9	
88 4-Chlorobenzotrifluoride	180	10.474	10.474	0.000	95	141452	50.0	54.8	
89 1,1,1,2-Tetrachloroethane	131	10.511	10.511	0.000	92	91123	50.0	51.1	
90 Ethylbenzene	106	10.517	10.517	0.000	98	150660	50.0	52.0	
91 m-Xylene & p-Xylene	106	10.644	10.644	0.000	0	188614	50.0	53.1	
92 o-Xylene	106	11.028	11.028	0.000	97	178614	50.0	52.9	
93 Styrene	104	11.046	11.046	0.000	96	299476	50.0	53.5	
94 Bromoform	173	11.235	11.235	0.000	95	41821	50.0	52.4	
96 2-Chlorobenzotrifluoride	180	11.295	11.295	0.000	98	143760	50.0	53.5	
97 Isopropylbenzene	105	11.399	11.399	0.000	96	447715	50.0	54.1	
99 1,1,2,2-Tetrachloroethane	83	11.709	11.709	0.000	82	111580	50.0	51.2	
100 Bromobenzene	156	11.709	11.709	0.000	90	114708	50.0	53.2	
102 trans-1,4-Dichloro-2-buten	53	11.746	11.746	0.000	80	22112	50.0	28.4	
101 1,2,3-Trichloropropane	110	11.764	11.764	0.000	86	38717	50.0	54.5	
103 N-Propylbenzene	120	11.812	11.812	0.000	99	127958	50.0	51.9	
104 2-Chlorotoluene	126	11.898	11.898	0.000	97	112790	50.0	53.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
105 3-Chlorotoluene	126	11.965	11.965	0.000	94	112828	50.0	52.3	
106 1,3,5-Trimethylbenzene	105	11.995	11.995	0.000	97	371701	50.0	53.3	
107 4-Chlorotoluene	126	12.019	12.019	0.000	98	120300	50.0	52.1	
108 tert-Butylbenzene	119	12.311	12.311	0.000	93	309709	50.0	54.6	
110 1,2,4-Trimethylbenzene	105	12.366	12.366	0.000	97	368983	50.0	52.8	
111 1,2-dichloro-4-(trifluorom	214	12.415	12.415	0.000	98	97594	50.0	50.1	
112 sec-Butylbenzene	105	12.530	12.530	0.000	94	436489	50.0	54.6	
113 1,3-Dichlorobenzene	146	12.646	12.646	0.000	99	216793	50.0	56.5	
114 4-Isopropyltoluene	119	12.689	12.689	0.000	97	373922	50.0	55.2	
115 1,4-Dichlorobenzene	146	12.755	12.755	0.000	97	222613	50.0	55.8	
116 2,4-Dichloro-1-(triflourom	214	12.780	12.780	0.000	96	87990	50.0	48.8	
118 2,5-Dichlorobenzotrifluori	214	12.822	12.822	0.000	0	103261	50.0	53.0	
120 n-Butylbenzene	91	13.096	13.096	0.000	98	291467	50.0	50.3	
121 1,2-Dichlorobenzene	146	13.108	13.108	0.000	98	198185	50.0	55.3	
122 1,2-Dibromo-3-Chloropropan	75	13.899	13.899	0.000	83	15651	50.0	53.1	
123 2,4- & 2,5- & 2,6- Dichlor	125	14.045	14.045	0.000	0	333043	150.0	162.6	
125 2,3- & 3,4- Dichlorotoluen	125	14.459	14.459	0.000	0	211622	100.0	108.4	
126 1,2,4-Trichlorobenzene	180	14.726	14.726	0.000	95	78390	50.0	56.2	
127 Hexachlorobutadiene	225	14.872	14.872	0.000	97	38050	50.0	56.6	
128 Naphthalene	128	14.988	14.988	0.000	97	231837	50.0	64.6	
129 1,2,3-Trichlorobenzene	180	15.213	15.213	0.000	95	68497	50.0	60.6	
131 2,4,5-Trichlorotoluene	159	15.992	15.992	0.000	0	22987	50.0	56.4	
130 2,3,6-Trichlorotoluene	159	16.089	16.089	0.000	97	23514	50.0	62.6	
148 2,3-Dichlorotoluene	1		0.000				ND	ND	
146 2,5-Dichlorotoluene	1		0.000				ND	ND	
150 2,6-Dichlorotoluene	1		0.000				ND	ND	
149 3,4-Dichlorotoluene	1		0.000				ND	ND	
147 2,4-Dichlorotoluene	1		0.000				ND	ND	
S 133 Xylenes, Total	106				0		100.0	106.0	
S 134 1,2-Dichloroethene, Total	96				0		100.0	91.0	
S 135 1,3-Dichloropropene, Total	1				0		100.0	92.7	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

VOA8260VOAPRI_00147	Amount Added:	2.00	Units: uL		
voaWKet1stRes_00001	Amount Added:	2.00	Units: uL		
voaWEEpri Res_00006	Amount Added:	2.00	Units: uL		
voaWVA2nd Res_00010	Amount Added:	2.00	Units: uL		
VOACEVEPRI_00012	Amount Added:	2.00	Units: uL		
voaWAcro1stRe_00001	Amount Added:	6.00	Units: uL		
VOA8260INT_00042	Amount Added:	2.00	Units: uL	Run Reagent	
VOA8260SURR_00042	Amount Added:	2.00	Units: uL	Run Reagent	

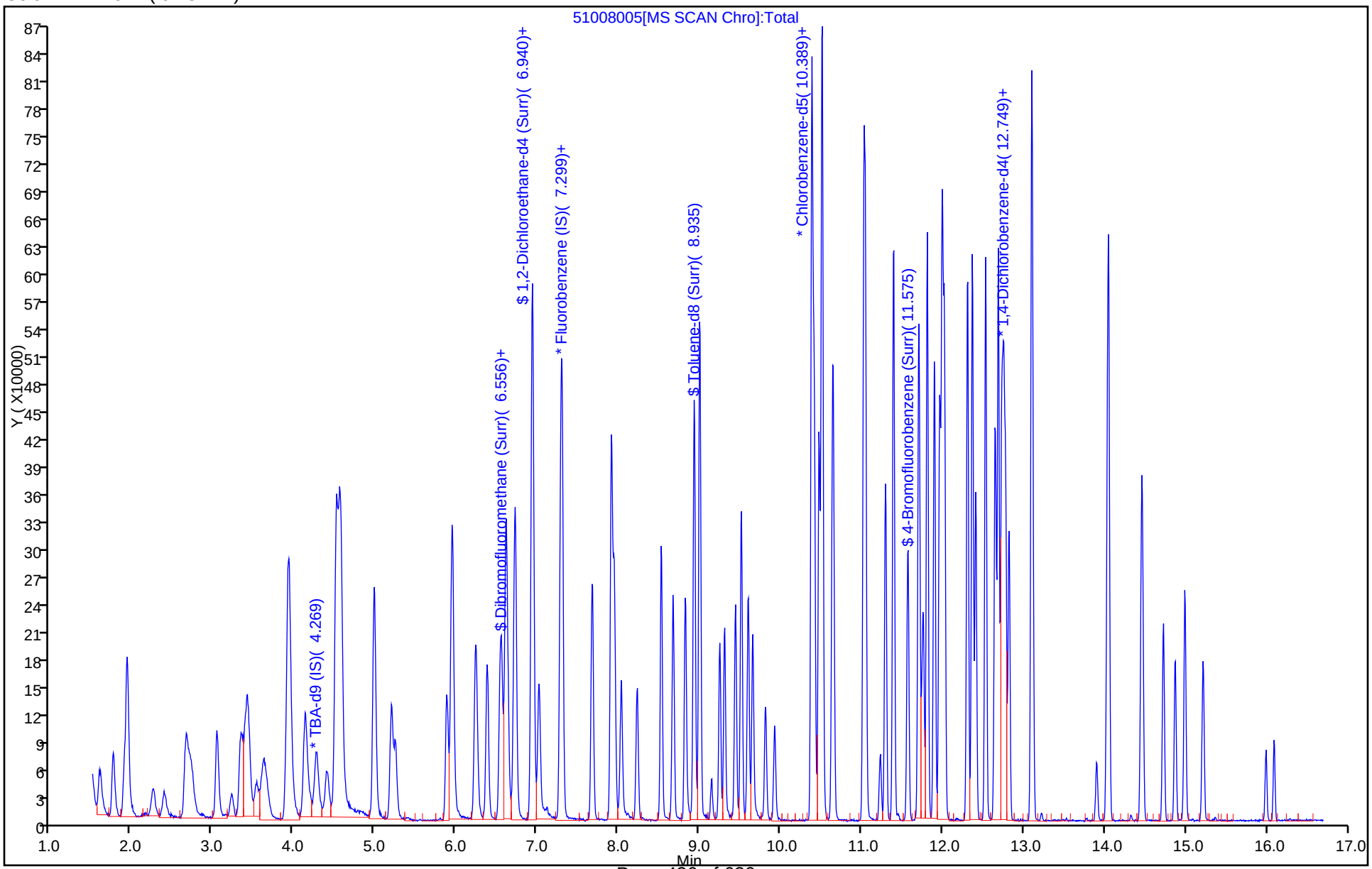
Report Date: 08-Oct-2015 13:15:56 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151008-8892.b\51008005.D

Injection Date:	08-Oct-2015 12:33:30	Instrument ID:	CHHP5	Operator ID:	001562
Lims ID:	CCVIS			Worklist Smp#:	5
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	MSVOA_LL_CHHP5	Limit Group:	VOA 8260C ICAL		

Column: DB-624 (0.18 mm)



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Pittsburgh Job No.: 180-48309-1

SDG No.:

Lab Sample ID: CCVIS 180-156309/5 Calibration Date: 10/08/2015 12:33

Instrument ID: CHHP5 Calib Start Date: 08/26/2015 15:04

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 08/26/2015 17:52

Lab File ID: 51008005.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.2825	0.2956	0.1000	10.5	10.0	4.6	20.0
Chloromethane	Ave	0.4148	0.3399	0.1000	8.20	10.0	-18.0	20.0
Vinyl chloride	Ave	0.3679	0.2746	0.1000	7.46	10.0	-25.4*	20.0
1,3-Butadiene	Ave	0.4345	0.3686	0.0100	8.48	10.0	-15.2	20.0
Bromomethane	Ave	0.1497	0.1133	0.0500	7.57	10.0	-24.3*	20.0
Chloroethane	Ave	0.2220	0.1360	0.0500	6.13	10.0	-38.7*	20.0
Dichlorofluoromethane	Ave	0.4709	0.3369	0.0100	7.15	10.0	-28.5*	20.0
Trichlorofluoromethane	Ave	0.3523	0.3146	0.1000	8.93	10.0	-10.7	20.0
Ethyl ether	Ave	0.3265	0.2495	0.0100	7.64	10.0	-23.6*	20.0
Acrolein	Ave	0.0486	0.0418	0.0100	25.8	30.0	-14.1	20.0
1,1-Dichloroethene	Ave	0.2785	0.2593	0.1000	9.31	10.0	-6.9	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.2951	0.2808	0.1000	9.52	10.0	-4.8	20.0
Acetone	Ave	0.1009	0.1068	0.0500	21.2	20.0	5.9	20.0
Iodomethane	Ave	0.4150	0.3988	0.0100	9.61	10.0	-3.9	20.0
Carbon disulfide	Ave	0.6466	0.5886	0.1000	9.10	10.0	-9.0	20.0
Allyl chloride	Ave	0.1577	0.1338	0.0100	8.48	10.0	-15.2	20.0
Methyl acetate	Ave	0.3015	0.3000	0.1000	49.8	50.0	-0.5	20.0
Methylene Chloride	Lin2		0.3104	0.1000	9.42	10.0	-5.8	20.0
tert-Butyl alcohol	Ave	1.126	1.187	0.0100	105	100	5.4	20.0
Acrylonitrile	Ave	0.1463	0.1407	0.0100	96.2	100	-3.8	20.0
trans-1,2-Dichloroethene	Ave	0.3024	0.2723	0.1000	9.01	10.0	-9.9	20.0
Methyl tert-butyl ether	Ave	0.6999	0.6392	0.1000	9.13	10.0	-8.7	20.0
Hexane	Ave	0.5076	0.4927	0.0100	9.71	10.0	-2.9	20.0
1,1-Dichloroethane	Ave	0.5957	0.5280	0.2000	8.86	10.0	-11.4	20.0
Vinyl acetate	Ave	0.4469	0.4671	0.0100	10.5	10.0	4.5	20.0
2,2-Dichloropropane	Ave	0.2387	0.2095	0.0100	8.78	10.0	-12.2	20.0
cis-1,2-Dichloroethene	Ave	0.3230	0.2968	0.1000	9.19	10.0	-8.1	20.0
2-Butanone (MEK)	Ave	0.1516	0.1561	0.0500	20.6	20.0	3.0	20.0
Bromochloromethane	Ave	0.1418	0.1447	0.0100	10.2	10.0	2.0	20.0
Tetrahydrofuran	Ave	0.1216	0.1098	0.0100	18.1	20.0	-9.7	20.0
Chloroform	Ave	0.5146	0.4670	0.2000	9.07	10.0	-9.3	20.0
1,1,1-Trichloroethane	Ave	0.3805	0.3422	0.1000	8.99	10.0	-10.1	20.0
Cyclohexane	Ave	0.6367	0.5703	0.1000	8.96	10.0	-10.4	20.0
Carbon tetrachloride	Ave	0.3240	0.3122	0.1000	9.64	10.0	-3.6	20.0
1,1-Dichloropropene	Ave	0.4208	0.3769	0.0100	8.96	10.0	-10.4	20.0
Isobutyl alcohol	Ave	0.0095	0.0121	0.0100	317	250	26.8*	20.0
Benzene	Ave	1.233	1.140	0.5000	9.25	10.0	-7.5	20.0
1,2-Dichloroethane	Ave	0.4264	0.3642	0.1000	8.54	10.0	-14.6	20.0
n-Heptane	Ave	0.4611	0.4476	0.0100	9.71	10.0	-2.9	20.0
Trichloroethene	Ave	0.3016	0.3090	0.2000	10.2	10.0	2.4	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Pittsburgh Job No.: 180-48309-1

SDG No.:

Lab Sample ID: CCVIS 180-156309/5 Calibration Date: 10/08/2015 12:33

Instrument ID: CHHP5 Calib Start Date: 08/26/2015 15:04

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 08/26/2015 17:52

Lab File ID: 51008005.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methylcyclohexane	Ave	0.4753	0.4593	0.1000	9.66	10.0	-3.4	20.0
1,2-Dichloropropane	Ave	0.3235	0.2978	0.1000	9.20	10.0	-8.0	20.0
1,4-Dioxane	Ave	0.0022	0.0029*	0.0100	258	200	29.2*	20.0
Dibromomethane	Ave	0.1642	0.1538	0.0100	9.37	10.0	-6.3	20.0
Bromodichloromethane	Ave	0.3249	0.3045	0.2000	9.37	10.0	-6.3	20.0
cis-1,3-Dichloropropene	Ave	0.3807	0.3550	0.2000	9.32	10.0	-6.8	20.0
4-Methyl-2-pentanone (MIBK)	Ave	1.232	1.176	0.1000	19.1	20.0	-4.6	20.0
Toluene	Ave	4.950	4.840	0.4000	9.78	10.0	-2.2	20.0
trans-1,3-Dichloropropene	Ave	1.292	1.191	0.1000	9.22	10.0	-7.8	20.0
Ethyl methacrylate	Ave	1.249	1.211	0.0100	9.69	10.0	-3.1	20.0
1,1,2-Trichloroethane	Ave	0.9416	0.9486	0.1000	10.1	10.0	0.7	20.0
Tetrachloroethene	Ave	0.9609	1.055	0.2000	11.0	10.0	9.8	20.0
1,3-Dichloropropane	Ave	1.748	1.637	0.0100	9.36	10.0	-6.4	20.0
2-Hexanone	Ave	0.8893	0.9354	0.1000	21.0	20.0	5.2	20.0
Dibromochloromethane	Ave	0.8152	0.8345	0.1000	10.2	10.0	2.4	20.0
1,2-Dibromoethane (EDB)	Ave	0.9073	0.9060	0.1000	9.98	10.0	-0.2	20.0
3-Chlorobenzotrifluoride	Ave	1.591	1.745	0.0100	11.0	10.0	9.7	20.0
Chlorobenzene	Ave	3.187	3.242	0.5000	10.2	10.0	1.7	20.0
4-Chlorobenzotrifluoride	Ave	1.504	1.649	0.0100	11.0	10.0	9.7	20.0
1,1,1,2-Tetrachloroethane	Ave	1.039	1.062	0.0100	10.2	10.0	2.3	20.0
Ethylbenzene	Ave	1.690	1.757	0.1000	10.4	10.0	4.0	20.0
m-Xylene & p-Xylene	Ave	2.072	2.199	0.1000	10.6	10.0	6.2	20.0
o-Xylene	Ave	1.969	2.083	0.3000	10.6	10.0	5.8	20.0
Styrene	Ave	3.262	3.492	0.3000	10.7	10.0	7.1	20.0
Bromoform	Ave	0.4652	0.4876	0.1000	10.5	10.0	4.8	20.0
2-Chlorobenzotrifluoride	Ave	1.565	1.676	0.0100	10.7	10.0	7.1	20.0
Isopropylbenzene	Ave	4.822	5.220	0.1000	10.8	10.0	8.3	20.0
1,1,2,2-Tetrachloroethane	Ave	1.270	1.301	0.3000	10.2	10.0	2.4	20.0
Bromobenzene	Ave	0.8583	0.9136	0.0100	10.6	10.0	6.4	20.0
trans-1,4-Dichloro-2-butene	Ave	0.3103	0.1761	0.0100	5.68	10.0	-43.2*	20.0
1,2,3-Trichloropropane	Ave	0.2831	0.3084	0.0100	10.9	10.0	8.9	20.0
N-Propylbenzene	Ave	0.9825	1.019	0.0100	10.4	10.0	3.7	20.0
2-Chlorotoluene	Ave	0.8351	0.8983	0.0100	10.8	10.0	7.6	20.0
3-Chlorotoluene	Ave	0.8583	0.8986	0.0100	10.5	10.0	4.7	20.0
1,3,5-Trimethylbenzene	Ave	2.776	2.960	0.0100	10.7	10.0	6.6	20.0
4-Chlorotoluene	Ave	0.9190	0.9582	0.0100	10.4	10.0	4.3	20.0
tert-Butylbenzene	Ave	2.257	2.467	0.0100	10.9	10.0	9.3	20.0
1,2,4-Trimethylbenzene	Ave	2.781	2.939	0.0100	10.6	10.0	5.7	20.0
3,4-Dichlorobenzotrifluoride	Ave	0.7754	0.7773	0.0100	10.0	10.0	0.2	20.0
sec-Butylbenzene	Ave	3.187	3.476	0.0100	10.9	10.0	9.1	20.0
1,3-Dichlorobenzene	Ave	1.528	1.727	0.6000	11.3	10.0	13.0	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Pittsburgh Job No.: 180-48309-1

SDG No.:

Lab Sample ID: CCVIS 180-156309/5 Calibration Date: 10/08/2015 12:33

Instrument ID: CHHP5 Calib Start Date: 08/26/2015 15:04

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 08/26/2015 17:52

Lab File ID: 51008005.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
4-Isopropyltoluene	Ave	2.696	2.978	0.0100	11.0	10.0	10.5	20.0
1,4-Dichlorobenzene	Ave	1.590	1.773	0.5000	11.2	10.0	11.5	20.0
2,4-Dichlorobenzotrifluoride	Ave	0.7185	0.7008	0.0100	9.75	10.0	-2.5	20.0
2,5-Dichlorobenzotrifluoride	Ave	0.7765	0.8224	0.0100	10.6	10.0	5.9	20.0
n-Butylbenzene	Ave	2.307	2.321	0.0100	10.1	10.0	0.6	20.0
1,2-Dichlorobenzene	Ave	1.428	1.578	0.4000	11.1	10.0	10.5	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.1173	0.1247	0.0500	10.6	10.0	6.3	20.0
2,4- & 2,5- & 2,6-Dichlorotoluene	Ave	0.8157	0.8842	0.0100	32.5	30.0	8.4	20.0
2,3- & 3,4- Dichlorotoluene	Ave	0.7778	0.8428	0.0100	21.7	20.0	8.4	20.0
1,2,4-Trichlorobenzene	Ave	0.5557	0.6244	0.2000	11.2	10.0	12.4	20.0
Hexachlorobutadiene	Ave	0.2677	0.3031	0.0100	11.3	10.0	13.2	20.0
Naphthalene	Ave	1.428	1.847	0.0100	12.9	10.0	29.3*	20.0
1,2,3-Trichlorobenzene	Ave	0.4498	0.5456	0.0100	12.1	10.0	21.3*	20.0
2,4,5-Trichlorotoluene	Ave	0.1623	0.1831	0.0100	11.3	10.0	12.8	20.0
2,3,6-Trichlorotoluene	Ave	0.1496	0.1873	0.0100	12.5	10.0	25.1*	20.0
Dibromofluoromethane (Surr)	Ave	0.2455	0.2303		9.38	10.0	-6.2	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3373	0.2819		8.36	10.0	-16.4	20.0
Toluene-d8 (Surr)	Ave	3.857	3.777		9.79	10.0	-2.1	20.0
4-Bromofluorobenzene (Surr)	Ave	1.455	1.328		9.13	10.0	-8.7	20.0

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151008-8892.b\51008005.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 08-Oct-2015 12:33:30 ALS Bottle#: 3 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: CCVIS
Misc. Info.: 180-0008892-005
Operator ID: 001562 Instrument ID: CHHP5
Sublist: chrom-MSVOA_LL_CHHP5*sub12

Method: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151008-8892.b\MSVOA_LL_CHHP5.m
Limit Group: VOA 8260C ICAL
Last Update: 08-Oct-2015 13:15:55 Calib Date: 26-Aug-2015 17:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20150826-8300.b\50826014.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK015

First Level Reviewer: fergusond Date: 08-Oct-2015 13:09:11

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.269	4.269	0.000	0	123647	1000.0	1000.0	
* 2 Fluorobenzene (IS)	96	7.286	7.286	0.000	98	342398	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.389	10.389	0.000	87	85766	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.731	12.731	0.000	92	125555	50.0	50.0	
$ 5 Dibromofluoromethane (Surr	113	6.562	6.562	0.000	94	78853	50.0	46.9	
$ 6 1,2-Dichloroethane-d4 (Sur	65	6.934	6.934	0.000	0	96515	50.0	41.8	
$ 7 Toluene-d8 (Surr)	98	8.935	8.935	0.000	94	323942	50.0	49.0	
$ 8 4-Bromofluorobenzene (Surr	95	11.569	11.569	0.000	91	113930	50.0	45.6	
11 Dichlorodifluoromethane	85	1.598	1.598	0.000	98	101212	50.0	52.3	
12 Chloromethane	50	1.769	1.769	0.000	99	116389	50.0	41.0	
13 Vinyl chloride	62	1.909	1.909	0.000	97	94016	50.0	37.3	
14 Butadiene	39	1.945	1.945	0.000	98	126209	50.0	42.4	
15 Bromomethane	94	2.255	2.255	0.000	89	38790	50.0	37.8	
16 Chloroethane	64	2.395	2.395	0.000	98	46570	50.0	30.6	
17 Dichlorofluoromethane	67	2.669	2.669	0.000	97	115360	50.0	35.8	
18 Trichlorofluoromethane	101	2.706	2.706	0.000	98	107714	50.0	44.6	
20 Ethyl ether	59	3.046	3.046	0.000	95	85438	50.0	38.2	
21 Acrolein	56	3.235	3.235	0.000	98	42911	150.0	128.8	
22 1,1-Dichloroethene	96	3.338	3.338	0.000	96	88789	50.0	46.6	
23 1,1,2-Trichloro-1,2,2-trif	101	3.423	3.423	0.000	92	96148	50.0	47.6	
24 Acetone	43	3.448	3.448	0.000	94	73160	100.0	105.9	
25 Iodomethane	142	3.539	3.539	0.000	98	136545	50.0	48.0	
26 Carbon disulfide	76	3.630	3.630	0.000	100	201549	50.0	45.5	
28 3-Chloro-1-propene	76	3.916	3.916	0.000	88	45805	50.0	42.4	
30 Methyl acetate	43	3.940	3.940	0.000	100	513576	250.0	248.8	
31 Methylene Chloride	84	4.135	4.135	0.000	98	106278	50.0	47.1	
32 2-Methyl-2-propanol	59	4.397	4.397	0.000	90	73361	500.0	527.1	
33 Acrylonitrile	53	4.525	4.525	0.000	98	481698	500.0	480.9	
34 trans-1,2-Dichloroethene	96	4.561	4.561	0.000	96	93247	50.0	45.0	
35 Methyl tert-butyl ether	73	4.573	4.573	0.000	96	218863	50.0	45.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
36 Hexane	57	4.987	4.987	0.000	96	168682	50.0	48.5	
37 1,1-Dichloroethane	63	5.200	5.200	0.000	96	180795	50.0	44.3	
38 Vinyl acetate	43	5.255	5.255	0.000	98	159946	50.0	52.3	
44 2,2-Dichloropropane	77	5.942	5.942	0.000	59	71742	50.0	43.9	
45 cis-1,2-Dichloroethene	96	5.954	5.954	0.000	83	101613	50.0	45.9	
46 2-Butanone (MEK)	43	5.960	5.960	0.000	82	106925	100.0	103.0	
49 Chlorobromomethane	128	6.234	6.234	0.000	95	49537	50.0	51.0	
51 Tetrahydrofuran	42	6.246	6.246	0.000	91	75220	100.0	90.3	
52 Chloroform	83	6.380	6.380	0.000	94	159892	50.0	45.4	
53 1,1,1-Trichloroethane	97	6.538	6.538	0.000	97	117170	50.0	45.0	
54 Cyclohexane	56	6.611	6.611	0.000	98	195272	50.0	44.8	
56 Carbon tetrachloride	117	6.715	6.715	0.000	96	106908	50.0	48.2	
55 1,1-Dichloropropene	75	6.733	6.733	0.000	90	129065	50.0	44.8	
57 Isobutyl alcohol	41	6.927	6.927	0.000	94	103323	1250.0	1584.6	
58 Benzene	78	6.946	6.946	0.000	97	390350	50.0	46.2	
59 1,2-Dichloroethane	62	7.025	7.025	0.000	96	124702	50.0	42.7	
62 n-Heptane	43	7.311	7.311	0.000	97	153258	50.0	48.5	
64 Trichloroethene	130	7.676	7.676	0.000	96	105784	50.0	51.2	
66 Methylcyclohexane	83	7.913	7.913	0.000	95	157272	50.0	48.3	
67 1,2-Dichloropropane	63	7.949	7.949	0.000	97	101955	50.0	46.0	
70 1,4-Dioxane	88	8.029	8.029	0.000	39	19727	1000.0	1291.6	M
68 Dibromomethane	93	8.035	8.035	0.000	91	52653	50.0	46.8	
71 Dichlorobromomethane	83	8.235	8.235	0.000	98	104259	50.0	46.9	
73 2-Chloroethyl vinyl ether	63	8.527	8.527	0.000	91	123440	100.0	109.1	
74 cis-1,3-Dichloropropene	75	8.673	8.673	0.000	90	121544	50.0	46.6	
75 4-Methyl-2-pentanone (MIBK	43	8.826	8.826	0.000	99	201662	100.0	95.4	
76 Toluene	91	9.002	9.002	0.000	98	415148	50.0	48.9	
77 trans-1,3-Dichloropropene	75	9.251	9.251	0.000	98	102185	50.0	46.1	
78 Ethyl methacrylate	69	9.312	9.312	0.000	95	103845	50.0	48.5	
79 1,1,2-Trichloroethane	97	9.446	9.446	0.000	92	81354	50.0	50.4	
80 Tetrachloroethene	164	9.519	9.519	0.000	97	90454	50.0	54.9	
81 1,3-Dichloropropane	76	9.604	9.604	0.000	98	140370	50.0	46.8	
82 2-Hexanone	43	9.659	9.659	0.000	99	160455	100.0	105.2	
84 Chlorodibromomethane	129	9.811	9.811	0.000	93	71574	50.0	51.2	
85 Ethylene Dibromide	107	9.927	9.927	0.000	99	77700	50.0	49.9	
86 3-Chlorobenzotrifluoride	180	10.389	10.389	0.000	87	149675	50.0	54.9	
87 Chlorobenzene	112	10.413	10.413	0.000	95	278043	50.0	50.9	
88 4-Chlorobenzotrifluoride	180	10.474	10.474	0.000	95	141452	50.0	54.8	
89 1,1,1,2-Tetrachloroethane	131	10.511	10.511	0.000	92	91123	50.0	51.1	
90 Ethylbenzene	106	10.517	10.517	0.000	98	150660	50.0	52.0	
91 m-Xylene & p-Xylene	106	10.644	10.644	0.000	0	188614	50.0	53.1	
92 o-Xylene	106	11.028	11.028	0.000	97	178614	50.0	52.9	
93 Styrene	104	11.046	11.046	0.000	96	299476	50.0	53.5	
94 Bromoform	173	11.235	11.235	0.000	95	41821	50.0	52.4	
96 2-Chlorobenzotrifluoride	180	11.295	11.295	0.000	98	143760	50.0	53.5	
97 Isopropylbenzene	105	11.399	11.399	0.000	96	447715	50.0	54.1	
99 1,1,2,2-Tetrachloroethane	83	11.709	11.709	0.000	82	111580	50.0	51.2	
100 Bromobenzene	156	11.709	11.709	0.000	90	114708	50.0	53.2	
102 trans-1,4-Dichloro-2-buten	53	11.746	11.746	0.000	80	22112	50.0	28.4	
101 1,2,3-Trichloropropane	110	11.764	11.764	0.000	86	38717	50.0	54.5	
103 N-Propylbenzene	120	11.812	11.812	0.000	99	127958	50.0	51.9	
104 2-Chlorotoluene	126	11.898	11.898	0.000	97	112790	50.0	53.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
105 3-Chlorotoluene	126	11.965	11.965	0.000	94	112828	50.0	52.3	
106 1,3,5-Trimethylbenzene	105	11.995	11.995	0.000	97	371701	50.0	53.3	
107 4-Chlorotoluene	126	12.019	12.019	0.000	98	120300	50.0	52.1	
108 tert-Butylbenzene	119	12.311	12.311	0.000	93	309709	50.0	54.6	
110 1,2,4-Trimethylbenzene	105	12.366	12.366	0.000	97	368983	50.0	52.8	
111 1,2-dichloro-4-(trifluorom	214	12.415	12.415	0.000	98	97594	50.0	50.1	
112 sec-Butylbenzene	105	12.530	12.530	0.000	94	436489	50.0	54.6	
113 1,3-Dichlorobenzene	146	12.646	12.646	0.000	99	216793	50.0	56.5	
114 4-Isopropyltoluene	119	12.689	12.689	0.000	97	373922	50.0	55.2	
115 1,4-Dichlorobenzene	146	12.755	12.755	0.000	97	222613	50.0	55.8	
116 2,4-Dichloro-1-(triflourom	214	12.780	12.780	0.000	96	87990	50.0	48.8	
118 2,5-Dichlorobenzotrifluori	214	12.822	12.822	0.000	0	103261	50.0	53.0	
120 n-Butylbenzene	91	13.096	13.096	0.000	98	291467	50.0	50.3	
121 1,2-Dichlorobenzene	146	13.108	13.108	0.000	98	198185	50.0	55.3	
122 1,2-Dibromo-3-Chloropropan	75	13.899	13.899	0.000	83	15651	50.0	53.1	
123 2,4- & 2,5- & 2,6- Dichlor	125	14.045	14.045	0.000	0	333043	150.0	162.6	
125 2,3- & 3,4- Dichlorotoluen	125	14.459	14.459	0.000	0	211622	100.0	108.4	
126 1,2,4-Trichlorobenzene	180	14.726	14.726	0.000	95	78390	50.0	56.2	
127 Hexachlorobutadiene	225	14.872	14.872	0.000	97	38050	50.0	56.6	
128 Naphthalene	128	14.988	14.988	0.000	97	231837	50.0	64.6	
129 1,2,3-Trichlorobenzene	180	15.213	15.213	0.000	95	68497	50.0	60.6	
131 2,4,5-Trichlorotoluene	159	15.992	15.992	0.000	0	22987	50.0	56.4	
130 2,3,6-Trichlorotoluene	159	16.089	16.089	0.000	97	23514	50.0	62.6	
148 2,3-Dichlorotoluene	1		0.000				ND	ND	
146 2,5-Dichlorotoluene	1		0.000				ND	ND	
150 2,6-Dichlorotoluene	1		0.000				ND	ND	
149 3,4-Dichlorotoluene	1		0.000				ND	ND	
147 2,4-Dichlorotoluene	1		0.000				ND	ND	
S 133 Xylenes, Total	106				0		100.0	106.0	
S 134 1,2-Dichloroethene, Total	96				0		100.0	91.0	
S 135 1,3-Dichloropropene, Total	1				0		100.0	92.7	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

VOA8260VOAPRI_00147	Amount Added:	2.00	Units: uL		
voaWKet1stRes_00001	Amount Added:	2.00	Units: uL		
voaWEEpri Res_00006	Amount Added:	2.00	Units: uL		
voaWVA2nd Res_00010	Amount Added:	2.00	Units: uL		
VOACEVEPRI_00012	Amount Added:	2.00	Units: uL		
voaWAcro1stRe_00001	Amount Added:	6.00	Units: uL		
VOA8260INT_00042	Amount Added:	2.00	Units: uL	Run Reagent	
VOA8260SURR_00042	Amount Added:	2.00	Units: uL	Run Reagent	

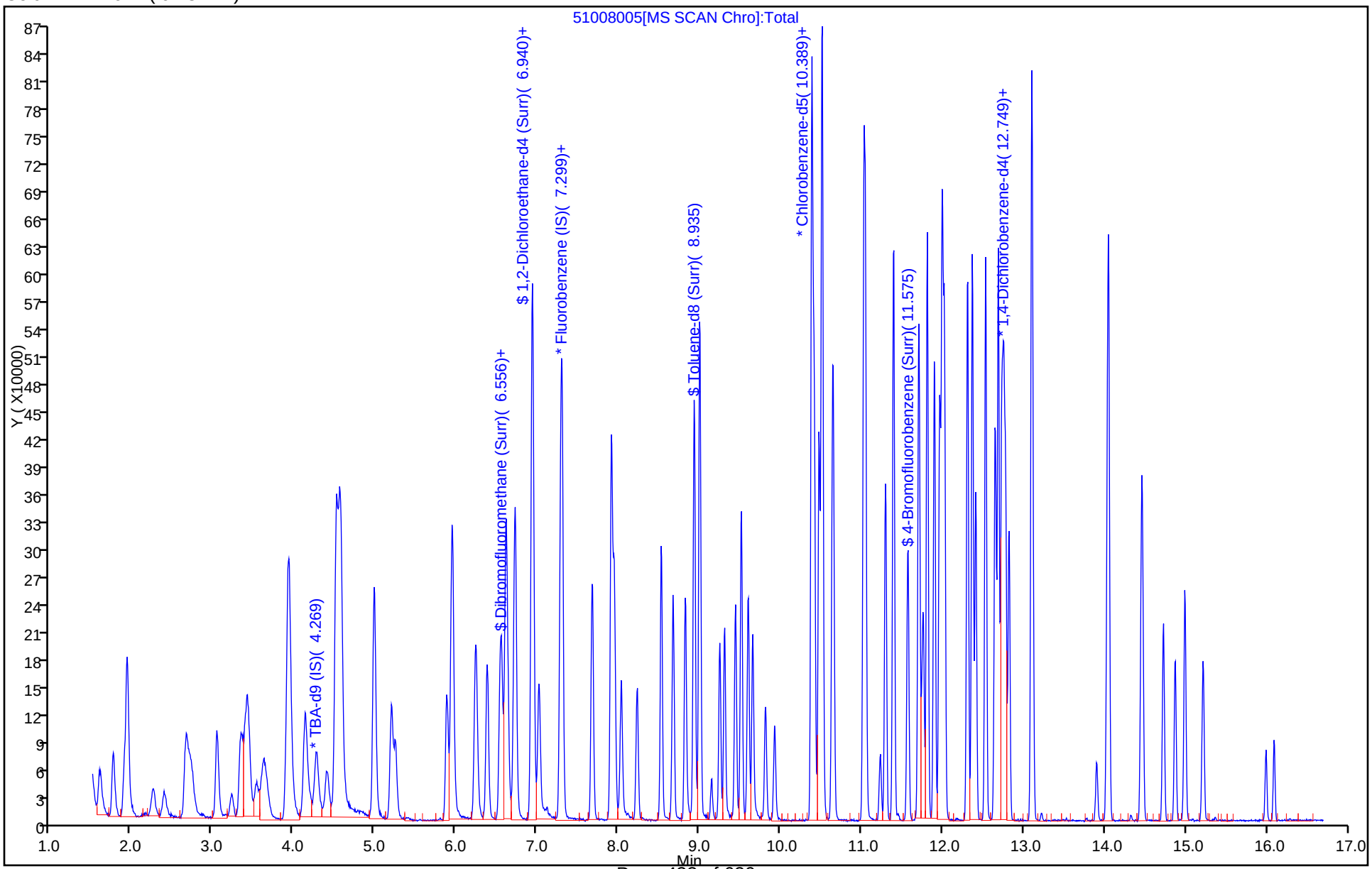
Report Date: 08-Oct-2015 13:15:56 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151008-8892.b\51008005.D

Injection Date:	08-Oct-2015 12:33:30	Instrument ID:	CHHP5	Operator ID:	001562
Lims ID:	CCVIS			Worklist Smp#:	5
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	MSVOA_LL_CHHP5	Limit Group:	VOA 8260C ICAL		

Column: DB-624 (0.18 mm)



Manual Integration/User Assign Peak Report

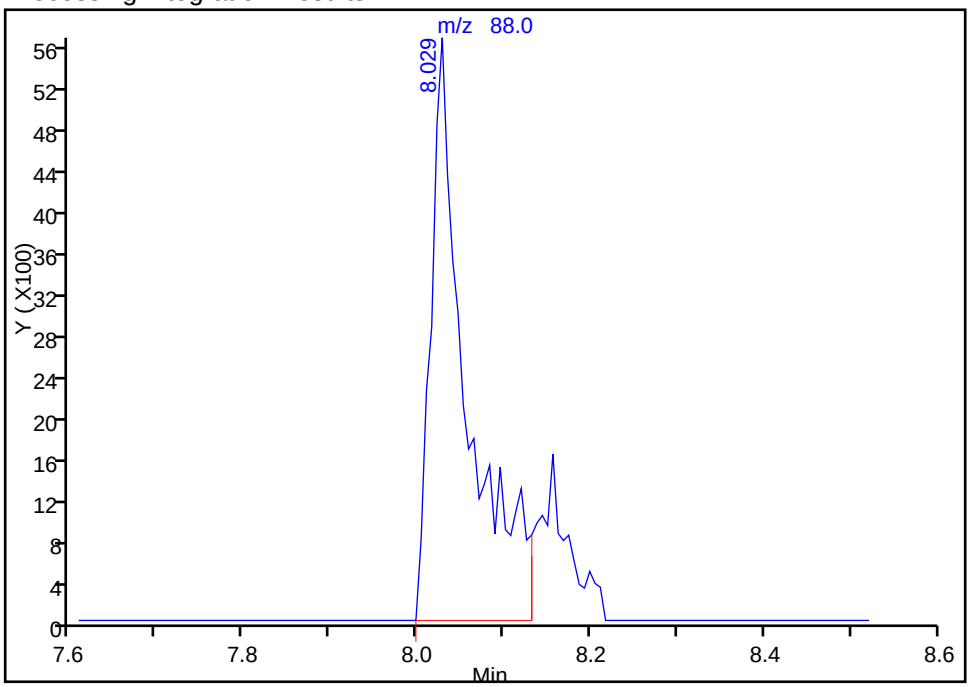
TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151008-8892.b\51008005.D
Injection Date: 08-Oct-2015 12:33:30 Instrument ID: CHHP5
Lims ID: CCVIS
Client ID:
Operator ID: 001562 ALS Bottle#: 3 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP5 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

70 1,4-Dioxane, CAS: 123-91-1

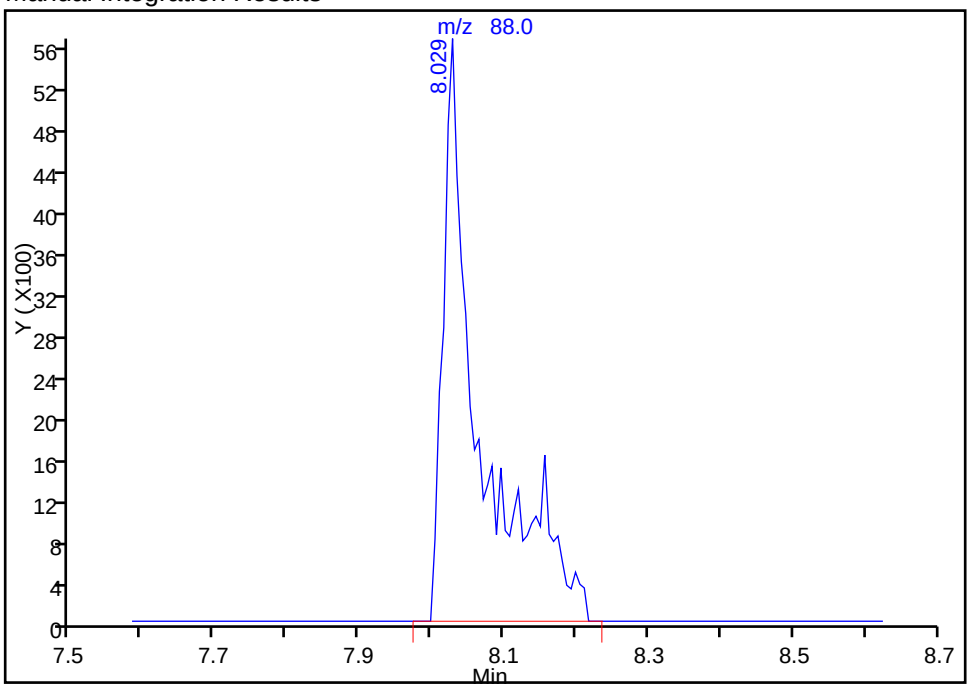
Processing Integration Results

RT: 8.03
Area: 16313
Amount: 1068.0816
Amount Units: ng



Manual Integration Results

RT: 8.03
Area: 19727
Amount: 1291.6107
Amount Units: ng



Reviewer: fergusond, 08-Oct-2015 13:09:11
Audit Action: Manually Integrated
Audit Reason: Incomplete Integration

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Pittsburgh Job No.: 180-48309-1

SDG No.:

Lab Sample ID: CCVIS 180-156189/2 Calibration Date: 10/07/2015 12:51

Instrument ID: CHHP6 Calib Start Date: 07/31/2015 14:00

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 07/31/2015 18:02

Lab File ID: 61007002.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.3462	0.3170	0.1000	9.15	10.0	-8.5	20.0
Chloromethane	Ave	0.2984	0.3476	0.1000	11.6	10.0	16.5	20.0
Vinyl chloride	Ave	0.3214	0.3296	0.1000	10.3	10.0	2.5	20.0
1,3-Butadiene	Ave	0.3013	0.3533	0.0100	11.7	10.0	17.3	20.0
Bromomethane	Ave	0.1735	0.1357	0.0500	7.82	10.0	-21.8*	20.0
Chloroethane	Ave	0.2194	0.2083	0.0500	9.49	10.0	-5.1	20.0
Dichlorofluoromethane	Ave	0.5106	0.4946	0.0100	9.69	10.0	-3.1	20.0
Trichlorofluoromethane	Ave	0.4072	0.3592	0.1000	8.82	10.0	-11.8	20.0
Ethyl ether	Ave	0.2886	0.3154	0.0100	10.9	10.0	9.3	20.0
Acrolein	Ave	0.0315	0.0291	0.0100	27.7	30.0	-7.5	20.0
1,1-Dichloroethene	Ave	0.2517	0.2446	0.1000	9.72	10.0	-2.8	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.2657	0.2618	0.1000	9.85	10.0	-1.5	20.0
Acetone	Ave	0.0885	0.1034	0.0500	23.4	20.0	16.9	20.0
Iodomethane	Ave	0.3379	0.3425	0.0100	10.1	10.0	1.4	20.0
Carbon disulfide	Ave	0.6522	0.6393	0.1000	9.80	10.0	-2.0	20.0
Allyl chloride	Ave	0.1419	0.1347	0.0100	9.49	10.0	-5.1	20.0
Methyl acetate	Ave	0.2074	0.2576	0.1000	62.1	50.0	24.2*	20.0
Methylene Chloride	Lin2		0.3484	0.1000	9.99	10.0	-0.0	20.0
tert-Butyl alcohol	Ave	1.125	1.176	0.0100	105	100	4.5	20.0
Acrylonitrile	Ave	0.1046	0.1293	0.0100	124	100	23.6*	20.0
trans-1,2-Dichloroethene	Ave	0.2905	0.2811	0.1000	9.68	10.0	-3.2	20.0
Methyl tert-butyl ether	Ave	0.8703	0.7819	0.1000	8.98	10.0	-10.2	20.0
Hexane	Ave	0.3936	0.4274	0.0100	10.9	10.0	8.6	20.0
1,1-Dichloroethane	Ave	0.5200	0.5466	0.2000	10.5	10.0	5.1	20.0
Vinyl acetate	Ave	0.4197	0.4131	0.0100	9.84	10.0	-1.6	20.0
cis-1,2-Dichloroethene	Ave	0.3158	0.3085	0.1000	9.77	10.0	-2.3	20.0
2,2-Dichloropropane	Ave	0.2629	0.2419	0.0100	9.20	10.0	-8.0	20.0
2-Butanone (MEK)	Ave	0.1207	0.1425	0.0500	23.6	20.0	18.1	20.0
Bromochloromethane	Ave	0.1269	0.1345	0.0100	10.6	10.0	6.0	20.0
Tetrahydrofuran	Ave	0.0813	0.0966	0.0100	23.8	20.0	18.8	20.0
Chloroform	Ave	0.5161	0.5096	0.2000	9.87	10.0	-1.3	20.0
1,1,1-Trichloroethane	Ave	0.3814	0.3706	0.1000	9.72	10.0	-2.8	20.0
Cyclohexane	Ave	0.4886	0.5374	0.1000	11.0	10.0	10.0	20.0
Carbon tetrachloride	Ave	0.2694	0.2912	0.1000	10.8	10.0	8.1	20.0
1,1-Dichloropropene	Ave	0.4102	0.4173	0.0100	10.2	10.0	1.7	20.0
Isobutyl alcohol	Ave	0.0072	0.0097*	0.0100	336	250	34.4*	20.0
Benzene	Ave	1.165	1.303	0.5000	11.2	10.0	11.9	20.0
1,2-Dichloroethane	Ave	0.4694	0.4792	0.1000	10.2	10.0	2.1	20.0
n-Heptane	Ave	0.3168	0.4352	0.0100	13.7	10.0	37.4*	20.0
Trichloroethene	Ave	0.2430	0.2719	0.2000	11.2	10.0	11.9	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Pittsburgh Job No.: 180-48309-1

SDG No.:

Lab Sample ID: CCVIS 180-156189/2 Calibration Date: 10/07/2015 12:51

Instrument ID: CHHP6 Calib Start Date: 07/31/2015 14:00

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 07/31/2015 18:02

Lab File ID: 61007002.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methylcyclohexane	Ave	0.4932	0.4739	0.1000	9.61	10.0	-3.9	20.0
1,2-Dichloropropane	Ave	0.2784	0.3318	0.1000	11.9	10.0	19.2	20.0
1,4-Dioxane	Ave	0.0027	0.0034*	0.0100	250	200	24.8*	20.0
Dibromomethane	Ave	0.1690	0.1788	0.0100	10.6	10.0	5.8	20.0
Bromodichloromethane	Ave	0.3176	0.3350	0.2000	10.5	10.0	5.5	20.0
cis-1,3-Dichloropropene	Ave	0.3489	0.3823	0.2000	11.0	10.0	9.6	20.0
4-Methyl-2-pentanone (MIBK)	Ave	1.028	1.002	0.1000	19.5	20.0	-2.6	20.0
Toluene	Ave	5.159	5.655	0.4000	11.0	10.0	9.6	20.0
trans-1,3-Dichloropropene	Ave	1.310	1.466	0.1000	11.2	10.0	12.0	20.0
Ethyl methacrylate	Ave	1.391	1.466	0.0100	10.5	10.0	5.4	20.0
1,1,2-Trichloroethane	Ave	1.067	1.177	0.1000	11.0	10.0	10.3	20.0
Tetrachloroethene	Ave	0.8800	1.056	0.2000	12.0	10.0	20.0	20.0
1,3-Dichloropropane	Ave	1.971	2.231	0.0100	11.3	10.0	13.2	20.0
2-Hexanone	Ave	0.6750	0.8559	0.1000	25.4	20.0	26.8*	20.0
Dibromochloromethane	Ave	0.7283	0.8685	0.1000	11.9	10.0	19.3	20.0
1,2-Dibromoethane (EDB)	Ave	0.9442	1.024	0.1000	10.8	10.0	8.4	20.0
3-Chlorobenzotrifluoride	Ave	1.652	1.838	0.0100	11.1	10.0	11.3	20.0
Chlorobenzene	Ave	3.171	3.591	0.5000	11.3	10.0	13.3	20.0
4-Chlorobenzotrifluoride	Ave	1.531	1.781	0.0100	11.6	10.0	16.3	20.0
1,1,1,2-Tetrachloroethane	Ave	0.8691	1.064	0.0100	12.2	10.0	22.5*	20.0
Ethylbenzene	Ave	1.789	2.005	0.1000	11.2	10.0	12.1	20.0
m-Xylene & p-Xylene	Ave	2.220	2.538	0.1000	11.4	10.0	14.3	20.0
o-Xylene	Ave	2.221	2.459	0.3000	11.1	10.0	10.7	20.0
Styrene	Ave	3.411	4.134	0.3000	12.1	10.0	21.2*	20.0
Bromoform	Ave	0.3887	0.4681	0.1000	12.0	10.0	20.4*	20.0
2-Chlorobenzotrifluoride	Ave	1.692	1.939	0.0100	11.5	10.0	14.6	20.0
Isopropylbenzene	Ave	5.314	5.863	0.1000	11.0	10.0	10.3	20.0
1,1,2,2-Tetrachloroethane	Ave	1.428	1.500	0.3000	10.5	10.0	5.1	20.0
Bromobenzene	Ave	0.8038	0.8144	0.0100	10.1	10.0	1.3	20.0
trans-1,4-Dichloro-2-butene	Ave	0.2549	0.2257	0.0100	8.86	10.0	-11.4	20.0
1,2,3-Trichloropropane	Ave	0.3057	0.2632	0.0100	8.61	10.0	-13.9	20.0
N-Propylbenzene	Ave	0.9257	0.8766	0.0100	9.47	10.0	-5.3	20.0
2-Chlorotoluene	Ave	0.7686	0.7731	0.0100	10.1	10.0	0.6	20.0
3-Chlorotoluene	Ave	0.8072	0.8027	0.0100	9.94	10.0	-0.6	20.0
1,3,5-Trimethylbenzene	Ave	3.010	2.853	0.0100	9.48	10.0	-5.2	20.0
4-Chlorotoluene	Ave	0.8119	0.8340	0.0100	10.3	10.0	2.7	20.0
tert-Butylbenzene	Ave	2.378	2.054	0.0100	8.64	10.0	-13.6	20.0
1,2,4-Trimethylbenzene	Ave	3.078	2.912	0.0100	9.46	10.0	-5.4	20.0
3,4-Dichlorobenzotrifluoride	Ave	0.8719	0.8802	0.0100	10.1	10.0	1.0	20.0
sec-Butylbenzene	Ave	3.550	3.385	0.0100	9.54	10.0	-4.6	20.0
1,3-Dichlorobenzene	Ave	1.570	1.565	0.6000	9.97	10.0	-0.3	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Pittsburgh Job No.: 180-48309-1

SDG No.:

Lab Sample ID: CCVIS 180-156189/2 Calibration Date: 10/07/2015 12:51

Instrument ID: CHHP6 Calib Start Date: 07/31/2015 14:00

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 07/31/2015 18:02

Lab File ID: 61007002.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
4-Isopropyltoluene	Ave	2.979	2.773	0.0100	9.31	10.0	-6.9	20.0
1,4-Dichlorobenzene	Ave	1.605	1.612	0.5000	10.0	10.0	0.4	20.0
2,4-Dichlorobenzotrifluoride	Ave	0.8674	0.8726	0.0100	10.1	10.0	0.6	20.0
2,5-Dichlorobenzotrifluoride	Ave	0.9687	0.9408	0.0100	9.71	10.0	-2.9	20.0
n-Butylbenzene	Ave	2.974	2.604	0.0100	8.75	10.0	-12.5	20.0
1,2-Dichlorobenzene	Ave	1.585	1.535	0.4000	9.69	10.0	-3.1	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.1454	0.1054	0.0500	7.25	10.0	-27.5*	20.0
2,4- & 2,5- & 2,6-Dichlorotoluene	Ave	1.380	1.204	0.0100	26.2	30.0	-12.7	20.0
2,3- & 3,4- Dichlorotoluene	Ave	1.522	1.310	0.0100	17.2	20.0	-13.9	20.0
1,2,4-Trichlorobenzene	Ave	1.229	1.115	0.2000	9.08	10.0	-9.2	20.0
Hexachlorobutadiene	Ave	0.4839	0.4705	0.0100	9.72	10.0	-2.8	20.0
Naphthalene	Ave	2.479	2.169	0.0100	8.75	10.0	-12.5	20.0
1,2,3-Trichlorobenzene	Ave	1.150	1.029	0.0100	8.95	10.0	-10.5	20.0
2,4,5-Trichlorotoluene	Ave	0.7719	0.5834	0.0100	7.56	10.0	-24.4*	20.0
2,3,6-Trichlorotoluene	Ave	0.7323	0.6474	0.0100	8.84	10.0	-11.6	20.0
Dibromofluoromethane (Surr)	Ave	0.2303	0.2377		10.3	10.0	3.2	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3715	0.3821		10.3	10.0	2.8	20.0
Toluene-d8 (Surr)	Ave	3.944	4.357		11.0	10.0	10.5	20.0
4-Bromofluorobenzene (Surr)	Ave	1.751	1.704		9.73	10.0	-2.7	20.0

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20151007-8874.b\61007002.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 07-Oct-2015 12:51:30 ALS Bottle#: 2 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: CCVIS
Misc. Info.: 180-0008874-002
Operator ID: 001562 Instrument ID: CHHP6
Sublist: chrom-MSVOA_LL_CHHP6*sub5

Method: \\ChromNA\Pittsburgh\ChromData\CHHP6\20151007-8874.b\MSVOA_LL_CHHP6.m
Limit Group: VOA 8260C ICAL
Last Update: 07-Oct-2015 14:05:12 Calib Date: 14-Sep-2015 16:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150914-8521.b\60914006.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK012

First Level Reviewer: fergusond Date: 07-Oct-2015 13:57:39

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.245	4.245	0.000	88	168577	1000.0	1000.0	
* 2 Fluorobenzene (IS)	96	7.281	7.281	0.000	98	430181	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.396	10.396	0.000	90	101182	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.750	12.750	0.000	96	190331	50.0	50.0	
$ 5 Dibromofluoromethane (Surr	113	6.551	6.551	0.000	93	102234	50.0	51.6	
$ 6 1,2-Dichloroethane-d4 (Sur	65	6.928	6.928	0.000	73	164360	50.0	51.4	
$ 7 Toluene-d8 (Surr)	98	8.942	8.942	0.000	94	440866	50.0	55.2	
$ 8 4-Bromofluorobenzene (Surr	95	11.588	11.588	0.000	85	172430	50.0	48.7	
11 Dichlorodifluoromethane	85	1.605	1.605	0.000	99	136346	50.0	45.8	
12 Chloromethane	50	1.757	1.757	0.000	100	149532	50.0	58.2	
13 Vinyl chloride	62	1.903	1.903	0.000	98	141771	50.0	51.3	
14 Butadiene	39	1.933	1.933	0.000	96	151983	50.0	58.6	
15 Bromomethane	94	2.232	2.232	0.000	93	58377	50.0	39.1	
16 Chloroethane	64	2.371	2.371	0.000	98	89590	50.0	47.5	
17 Dichlorofluoromethane	67	2.651	2.651	0.000	98	212755	50.0	48.4	
18 Trichlorofluoromethane	101	2.694	2.694	0.000	84	154533	50.0	44.1	
20 Ethyl ether	59	3.047	3.047	0.000	94	135685	50.0	54.6	
21 Acrolein	56	3.211	3.211	0.000	96	37562	150.0	138.7	
22 1,1-Dichloroethene	96	3.339	3.339	0.000	95	105229	50.0	48.6	
23 1,1,2-Trichloro-1,2,2-trif	101	3.412	3.412	0.000	93	112607	50.0	49.3	
24 Acetone	43	3.418	3.418	0.000	79	88964	100.0	116.9	
25 Iodomethane	142	3.533	3.533	0.000	100	147340	50.0	50.7	
26 Carbon disulfide	76	3.625	3.625	0.000	100	275015	50.0	49.0	
29 3-Chloro-1-propene	76	3.911	3.911	0.000	63	57924	50.0	47.4	
30 Methyl acetate	43	3.923	3.923	0.000	98	554116	250.0	310.5	
31 Methylene Chloride	84	4.124	4.124	0.000	97	149876	50.0	50.0	
32 2-Methyl-2-propanol	59	4.379	4.379	0.000	90	99159	500.0	522.7	
33 Acrylonitrile	53	4.501	4.501	0.000	97	556137	500.0	618.2	
34 trans-1,2-Dichloroethene	96	4.568	4.568	0.000	91	120901	50.0	48.4	
35 Methyl tert-butyl ether	73	4.574	4.574	0.000	96	336362	50.0	44.9	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
36 Hexane	57	4.981	4.981	0.000	94	183848	50.0	54.3	
37 1,1-Dichloroethane	63	5.188	5.188	0.000	97	235134	50.0	52.6	
38 Vinyl acetate	43	5.237	5.237	0.000	98	177716	50.0	49.2	
43 cis-1,2-Dichloroethene	96	5.936	5.936	0.000	86	132699	50.0	48.8	
42 2,2-Dichloropropane	77	5.942	5.942	0.000	58	104071	50.0	46.0	
44 2-Butanone (MEK)	43	5.949	5.949	0.000	76	122624	100.0	118.1	
48 Chlorobromomethane	128	6.222	6.222	0.000	95	57853	50.0	53.0	
49 Tetrahydrofuran	42	6.241	6.241	0.000	89	83135	100.0	118.8	
50 Chloroform	83	6.368	6.368	0.000	95	219197	50.0	49.4	
51 1,1,1-Trichloroethane	97	6.539	6.539	0.000	96	159421	50.0	48.6	
52 Cyclohexane	56	6.612	6.612	0.000	96	231183	50.0	55.0	
53 Carbon tetrachloride	117	6.709	6.709	0.000	96	125255	50.0	54.0	
54 1,1-Dichloropropene	75	6.727	6.727	0.000	95	179505	50.0	50.9	
55 Isobutyl alcohol	41	6.904	6.904	0.000	89	104523	1250.0	1679.4	
56 Benzene	78	6.940	6.940	0.000	98	560720	50.0	55.9	
57 1,2-Dichloroethane	62	7.013	7.013	0.000	98	206120	50.0	51.0	
59 n-Heptane	43	7.305	7.305	0.000	93	187214	50.0	68.7	
61 Trichloroethene	130	7.676	7.676	0.000	96	116951	50.0	55.9	
63 Methylcyclohexane	83	7.920	7.920	0.000	95	203841	50.0	48.0	
64 1,2-Dichloropropane	63	7.950	7.950	0.000	94	142732	50.0	59.6	
65 1,4-Dioxane	88	8.029	8.029	0.000	38	29512	1000.0	1248.3	
67 Dibromomethane	93	8.035	8.035	0.000	95	76908	50.0	52.9	
68 Dichlorobromomethane	83	8.230	8.230	0.000	97	144100	50.0	52.7	
71 cis-1,3-Dichloropropene	75	8.674	8.674	0.000	92	164461	50.0	54.8	
72 4-Methyl-2-pentanone (MIBK	43	8.826	8.826	0.000	98	202675	100.0	97.4	
73 Toluene	91	9.009	9.009	0.000	98	572145	50.0	54.8	
74 trans-1,3-Dichloropropene	75	9.252	9.252	0.000	98	148378	50.0	56.0	
75 Ethyl methacrylate	69	9.313	9.313	0.000	91	148369	50.0	52.7	
76 1,1,2-Trichloroethane	97	9.447	9.447	0.000	94	119053	50.0	55.1	
77 Tetrachloroethene	164	9.526	9.526	0.000	97	106889	50.0	60.0	
78 1,3-Dichloropropane	76	9.605	9.605	0.000	95	225744	50.0	56.6	
79 2-Hexanone	43	9.659	9.659	0.000	98	173195	100.0	126.8	
81 Chlorodibromomethane	129	9.824	9.824	0.000	90	87875	50.0	59.6	
82 Ethylene Dibromide	107	9.939	9.939	0.000	97	103578	50.0	54.2	
83 3-Chlorobenzotrifluoride	180	10.390	10.390	0.000	93	185963	50.0	55.6	
84 Chlorobenzene	112	10.426	10.426	0.000	92	363390	50.0	56.6	
85 4-Chlorobenzotrifluoride	180	10.481	10.481	0.000	96	180186	50.0	58.2	
87 Ethylbenzene	106	10.523	10.523	0.000	99	202836	50.0	56.0	
86 1,1,1,2-Tetrachloroethane	131	10.523	10.523	0.000	90	107687	50.0	61.2	
88 m-Xylene & p-Xylene	106	10.657	10.657	0.000	99	256794	50.0	57.2	
89 o-Xylene	106	11.040	11.040	0.000	97	248791	50.0	55.4	
90 Styrene	104	11.059	11.059	0.000	94	418282	50.0	60.6	
91 Bromoform	173	11.241	11.241	0.000	96	47359	50.0	60.2	
92 2-Chlorobenzotrifluoride	180	11.302	11.302	0.000	96	196198	50.0	57.3	
93 Isopropylbenzene	105	11.405	11.405	0.000	98	593256	50.0	55.2	
96 1,1,2,2-Tetrachloroethane	83	11.716	11.716	0.000	95	151801	50.0	52.5	
95 Bromobenzene	156	11.722	11.722	0.000	97	155001	50.0	50.7	
97 trans-1,4-Dichloro-2-buten	53	11.746	11.746	0.000	80	42963	50.0	44.3	
98 1,2,3-Trichloropropane	110	11.770	11.770	0.000	86	50092	50.0	43.0	
99 N-Propylbenzene	120	11.825	11.825	0.000	99	166851	50.0	47.3	
100 2-Chlorotoluene	126	11.910	11.910	0.000	95	147150	50.0	50.3	
101 3-Chlorotoluene	126	11.977	11.977	0.000	96	152769	50.0	49.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
102 1,3,5-Trimethylbenzene	105	12.008	12.008	0.000	94	543052	50.0	47.4	
103 4-Chlorotoluene	126	12.038	12.038	0.000	99	158737	50.0	51.4	
104 tert-Butylbenzene	119	12.324	12.324	0.000	92	390957	50.0	43.2	
106 1,2,4-Trimethylbenzene	105	12.385	12.385	0.000	99	554157	50.0	47.3	
107 1,2-dichloro-4-(trifluorom	214	12.421	12.421	0.000	98	167530	50.0	50.5	
108 sec-Butylbenzene	105	12.549	12.549	0.000	95	644276	50.0	47.7	
109 1,3-Dichlorobenzene	146	12.665	12.665	0.000	95	297837	50.0	49.8	
110 4-Isopropyltoluene	119	12.707	12.707	0.000	96	527780	50.0	46.5	
111 1,4-Dichlorobenzene	146	12.774	12.774	0.000	90	306846	50.0	50.2	
113 2,4-Dichloro-1-(triflourom	214	12.792	12.792	0.000	96	166090	50.0	50.3	
114 2,5-Dichlorobenzotrifluori	214	12.835	12.835	0.000	97	179071	50.0	48.6	
116 n-Butylbenzene	91	13.115	13.115	0.000	99	495581	50.0	43.8	
117 1,2-Dichlorobenzene	146	13.127	13.127	0.000	94	292233	50.0	48.4	
118 1,2-Dibromo-3-Chloropropan	75	13.918	13.918	0.000	69	20055	50.0	36.2	
119 2,4- & 2,5- & 2,6- Dichlor	125	14.058	14.058	0.000	99	687573	150.0	130.9	
121 2,3- & 3,4- Dichlorotoluen	125	14.478	14.478	0.000	98	498770	100.0	86.1	
122 1,2,4-Trichlorobenzene	180	14.739	14.739	0.000	94	212282	50.0	45.4	
123 Hexachlorobutadiene	225	14.891	14.891	0.000	96	89541	50.0	48.6	
124 Naphthalene	128	15.007	15.007	0.000	98	412873	50.0	43.7	
125 1,2,3-Trichlorobenzene	180	15.232	15.232	0.000	96	195834	50.0	44.8	
126 2,4,5-Trichlorotoluene	159	16.011	16.011	0.000	0	111029	50.0	37.8	
127 2,3,6-Trichlorotoluene	159	16.108	16.108	0.000	96	123210	50.0	44.2	
146 3,4-Dichlorotoluene	1		0.000				ND	ND	
147 2,6-Dichlorotoluene	1		0.000				ND	ND	
143 2,5-Dichlorotoluene	1		0.000				ND	ND	
145 2,3-Dichlorotoluene	1		0.000				ND	ND	
144 2,4-Dichlorotoluene	1		0.000				ND	ND	
S 130 1,2-Dichloroethene, Total	96				0		100.0	97.2	
S 131 Xylenes, Total	106				0		100.0	112.5	
S 132 1,3-Dichloropropene, Total	1				0		100.0	110.8	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

VOA8260VOAPRI_00147	Amount Added:	2.00	Units: uL	
voaWKet1stRes_00001	Amount Added:	2.00	Units: uL	
voaWAcro1stRe_00001	Amount Added:	6.00	Units: uL	
voaWEEpri Res_00006	Amount Added:	2.00	Units: uL	
voaWVA2nd Res_00010	Amount Added:	2.00	Units: uL	
VOA8260INT_00042	Amount Added:	2.00	Units: uL	Run Reagent
VOA8260SURR_00042	Amount Added:	2.00	Units: uL	Run Reagent

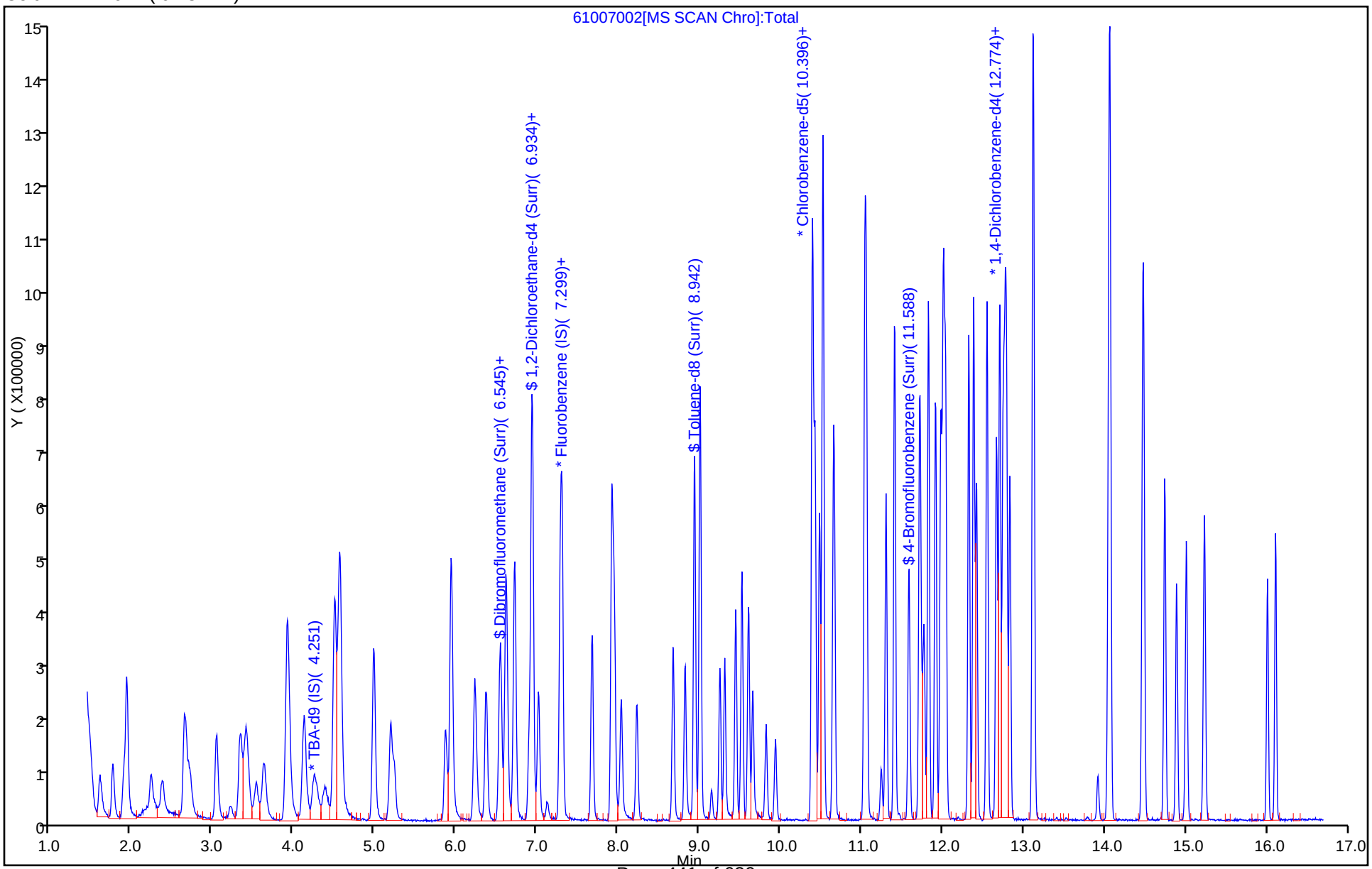
Report Date: 07-Oct-2015 14:05:13 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20151007-8874.b\61007002.D

Injection Date:	07-Oct-2015 12:51:30	Instrument ID:	CHHP6	Operator ID:	001562
Lims ID:	CCVIS			Worklist Smp#:	2
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	MSVOA_LL_CHHP6	Limit Group:	VOA 8260C ICAL		

Column: DB-624 (0.18 mm)



TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20150826-8300.b\50826007.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 26-Aug-2015 14:01:30 ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Sample Info: BFB
Misc. Info.: 180-0008300-007
Operator ID: 001562 Instrument ID: CHHP5

Method: \\ChromNA\Pittsburgh\ChromData\CHHP5\20150826-8300.b\MSVOA_LL_CHHP5.m
Limit Group: VOA 8260C ICAL
Last Update: 27-Aug-2015 11:26:53 Calib Date: 26-Aug-2015 17:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20150826-8300.b\50826014.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK048

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
$ 10 BFB	95	8.366	8.366	0.000	0	128431	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

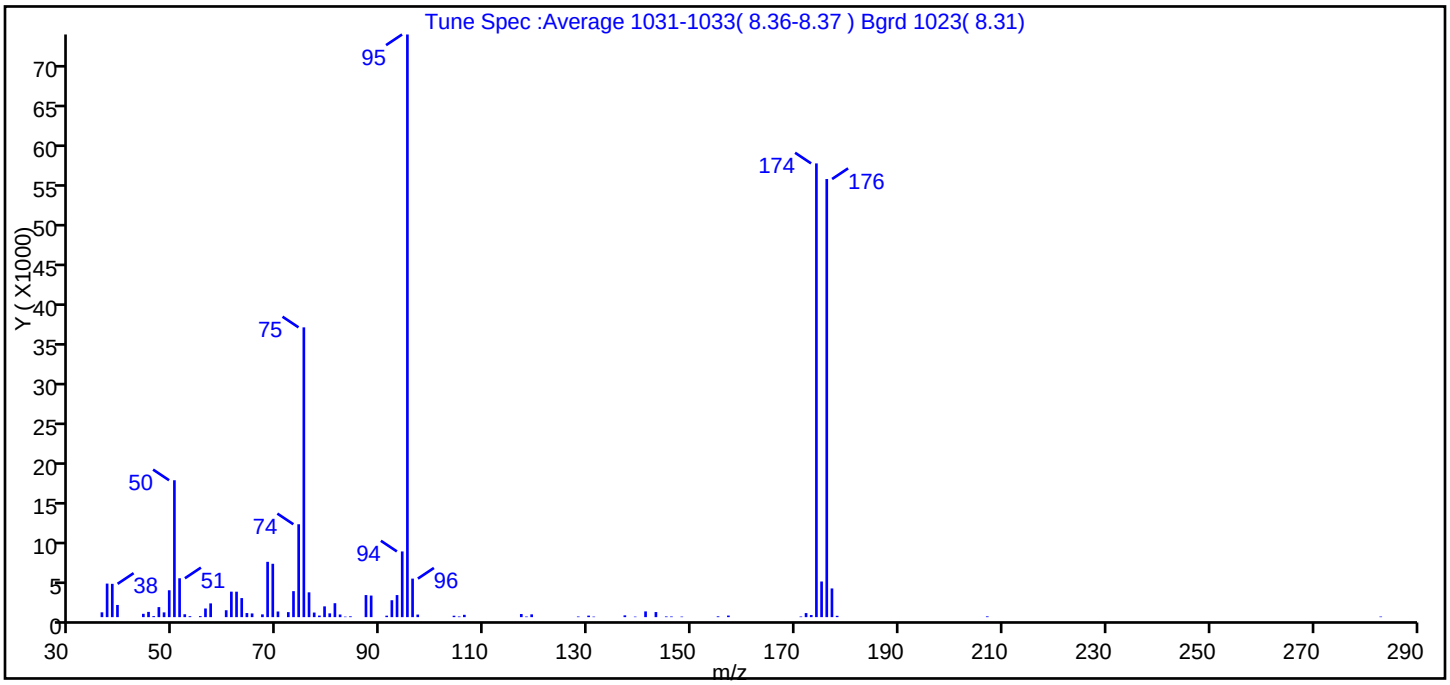
VOABFB25_00065 Amount Added: 1.00 Units: uL

MS Tune Report

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20150826-8300.b\50826007.D
Injection Date: 26-Aug-2015 14:01:30 Instrument ID: CHHP5
Lims ID: BFB
Client ID:
Operator ID: 001562 ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP5 Limit Group: VOA 8260C ICAL
Tune Method: BFB Method 8260

$ 10 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	23.5
75	30 to 60% of m/z 95	49.7
96	5 to 9% of m/z 95	6.6
173	Less than 2% of m/z 174	0.4 (0.5)
174	50 to 120% of m/z 95	77.9
175	5 to 9% of m/z 174	6.1 (7.9)
176	Greater than 95% but less than 101% of m/z 174	75.2 (96.6)
177	5 to 9% of m/z 176	4.9 (6.6)

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20150826-8300.b\50826007.D\MSVOA_LL_CHHP5.rslt\spectra
Injection Date: 26-Aug-2015 14:01:30
Spectrum: Tune Spec :Average 1031-1033(8.36-8.37) Bgrd 1023(8.31)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 77

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	611	63.00	2411	87.00	2793	141.00	728
37.00	4245	64.00	518	88.00	2731	143.00	645
38.00	4214	65.00	470	91.00	185	145.00	90
39.00	1541	67.00	350	92.00	2139	146.00	83
44.00	422	68.00	6998	93.00	2793	148.00	69
45.00	664	69.00	6752	94.00	8313	155.00	103
46.00	131	70.00	715	95.00	73720	157.00	200
47.00	1270	72.00	635	96.00	4875	171.00	82
48.00	602	73.00	3289	97.00	325	172.00	516
49.00	3402	74.00	11753	104.00	180	173.00	266
50.00	17320	75.00	36664	105.00	86	174.00	57408
51.00	4919	76.00	3139	106.00	295	175.00	4509
52.00	366	77.00	580	117.00	395	176.00	55432
53.00	119	78.00	199	118.00	78	177.00	3632
55.00	129	79.00	1363	119.00	354	178.00	170
56.00	1095	80.00	480	128.00	80	207.00	97
57.00	1741	81.00	1763	130.00	191	283.00	74
60.00	873	82.00	333	131.00	68		
61.00	3226	83.00	66	137.00	226		
62.00	3220	84.00	102	139.00	67		

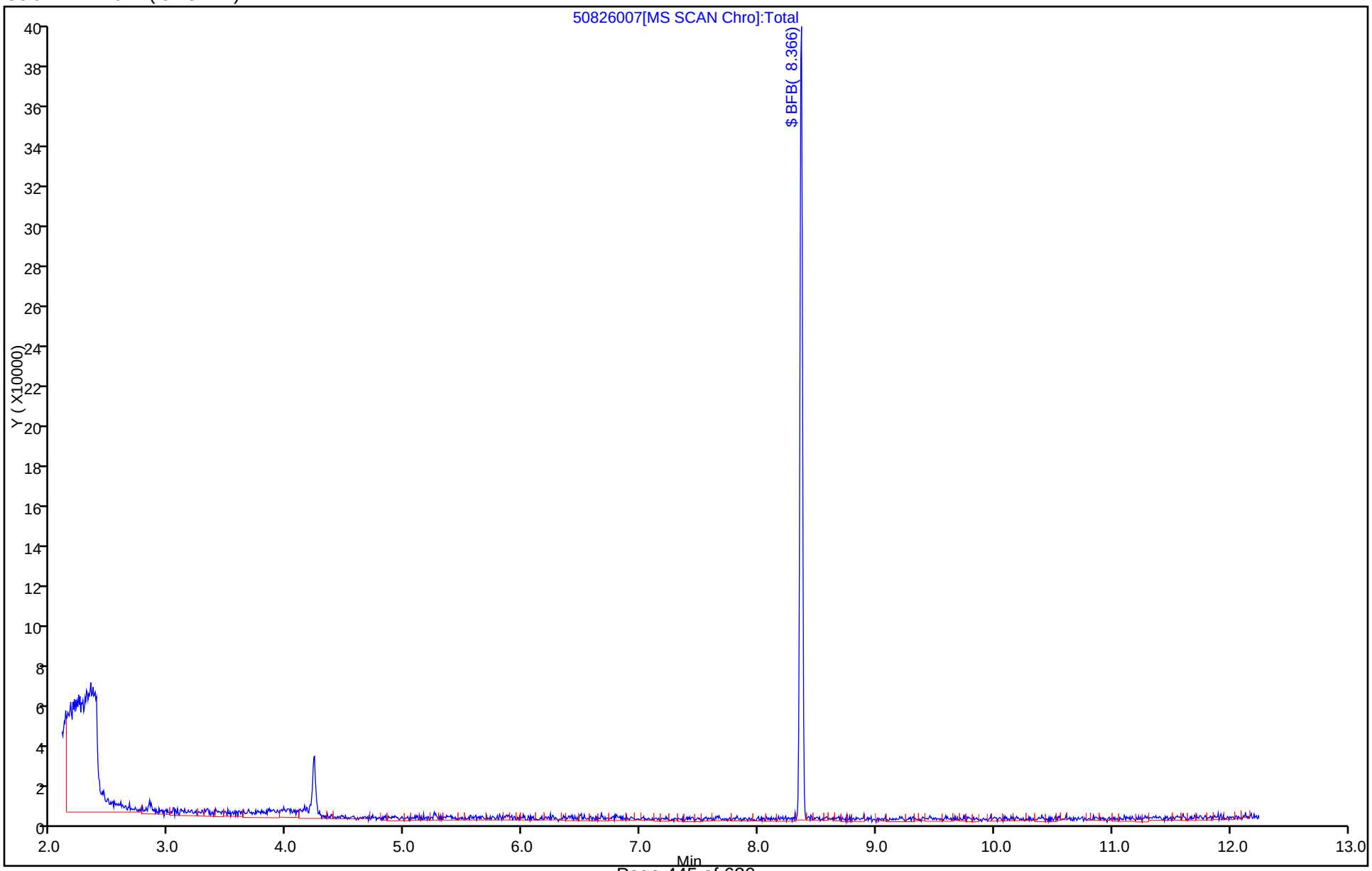
Report Date: 27-Aug-2015 11:26:54 Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20150826-8300.b\50826007.D

Injection Date:	26-Aug-2015 14:01:30	Instrument ID:	CHHP5	Operator ID:	001562
Lims ID:	BFB			Worklist Smp#:	7
Client ID:					
Injection Vol:	5.0 mL	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	MSVOA_LL_CHHP5	Limit Group:	VOA 8260C ICAL		

Column: DB-624 (0.18 mm)



TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151008-8892.b\51008004.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 08-Oct-2015 11:00:30 ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Sample Info: BFB
Misc. Info.: 180-0008892-004
Operator ID: 001562 Instrument ID: CHHP5

Method: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151008-8892.b\MSVOA_LL_CHHP5.m
Limit Group: VOA 8260C ICAL
Last Update: 08-Oct-2015 13:15:45 Calib Date: 26-Aug-2015 17:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20150826-8300.b\50826014.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK015

First Level Reviewer: fergusond Date: 08-Oct-2015 11:25:52

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
$ 10 BFB	95	8.360	8.360	0.000	0	59613	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

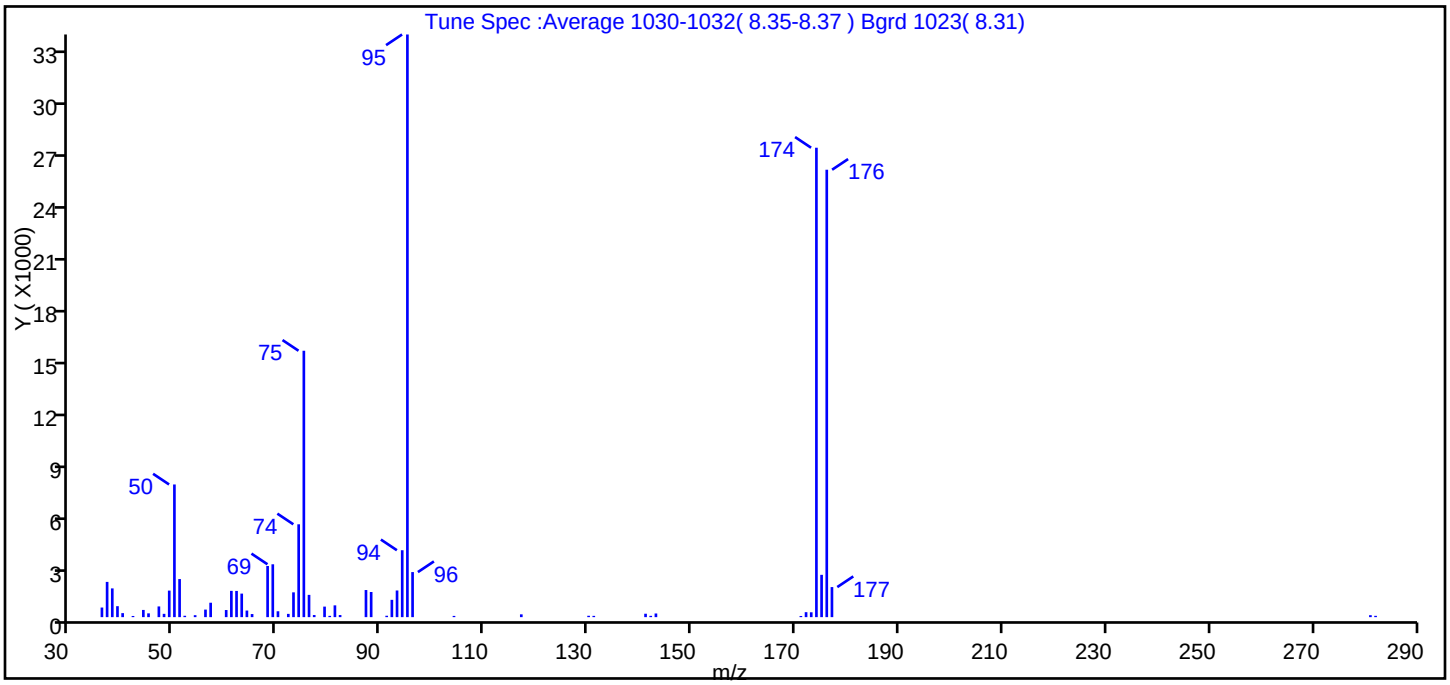
VOABFB25_00067 Amount Added: 1.00 Units: uL

MS Tune Report

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151008-8892.b\51008004.D
Injection Date: 08-Oct-2015 11:00:30 Instrument ID: CHHP5
Lims ID: BFB
Client ID:
Operator ID: 001562 ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP5 Limit Group: VOA 8260C ICAL
Tune Method: BFB Method 8260

$ 10 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	22.8
75	30 to 60% of m/z 95	45.7
96	5 to 9% of m/z 95	7.7
173	Less than 2% of m/z 174	0.8 (1.0)
174	50 to 120% of m/z 95	80.6
175	5 to 9% of m/z 174	7.3 (9.0)
176	Greater than 95% but less than 101% of m/z 174	76.8 (95.3)
177	5 to 9% of m/z 176	5.2 (6.7)

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151008-8892.b\51008004.D\MSVOA_LL_CHHP5.rslt\spectra
Injection Date: 08-Oct-2015 11:00:30
Spectrum: Tune Spec :Average 1030-1032(8.35-8.37) Bgrd 1023(8.31)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 60

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	552	56.00	434	76.00	1279	117.00	161
37.00	2024	57.00	828	77.00	121	130.00	79
38.00	1651	60.00	409	79.00	605	131.00	73
39.00	630	61.00	1510	80.00	74	141.00	196
40.00	231	62.00	1505	81.00	677	142.00	75
42.00	67	63.00	1352	82.00	120	143.00	210
44.00	414	64.00	379	87.00	1557	171.00	67
45.00	218	65.00	178	88.00	1444	172.00	286
47.00	615	68.00	2938	91.00	80	173.00	279
48.00	190	69.00	3036	92.00	994	174.00	26960
49.00	1524	70.00	338	93.00	1531	175.00	2430
50.00	7620	72.00	188	94.00	3843	176.00	25696
51.00	2188	73.00	1424	95.00	33464	177.00	1727
52.00	79	74.00	5332	96.00	2588	281.00	112
54.00	112	75.00	15300	104.00	71	282.00	76

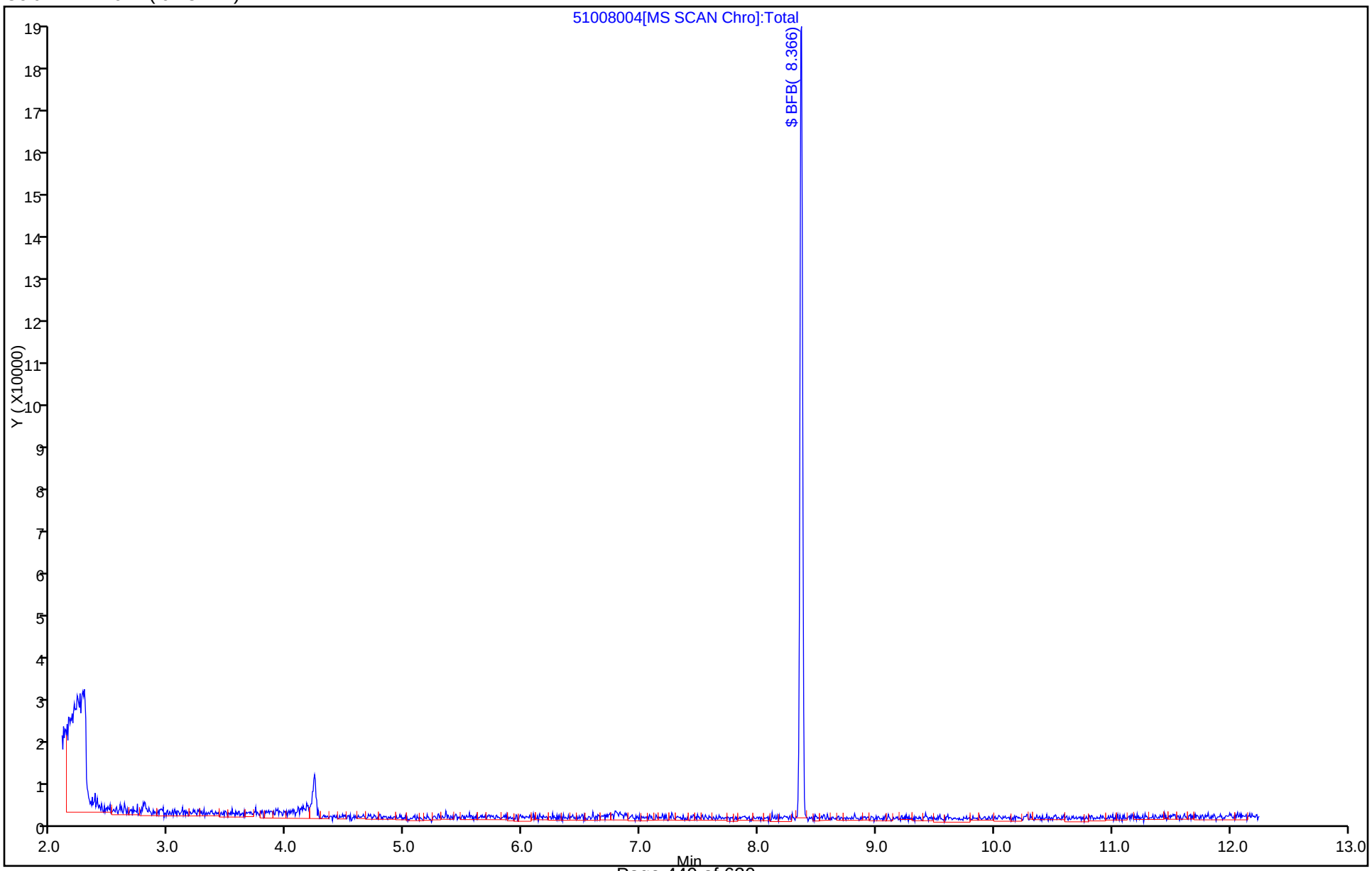
Report Date: 08-Oct-2015 13:15:49 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151008-8892.b\51008004.D

Injection Date:	08-Oct-2015 11:00:30	Instrument ID:	CHHP5	Operator ID:	001562
Lims ID:	BFB			Worklist Smp#:	4
Client ID:					
Injection Vol:	5.0 mL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	MSVOA_LL_CHHP5	Limit Group:	VOA 8260C ICAL		

Column: DB-624 (0.18 mm)



TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File:	\\ChromNA\Pittsburgh\ChromData\CHHP6\20150731-7999.b\60731001.D				
Lims ID:	BFB				
Client ID:					
Sample Type:	BFB				
Inject. Date:	31-Jul-2015 12:10:30	ALS Bottle#:	1	Worklist Smp#:	1
Injection Vol:	5.0 mL	Dil. Factor:	1.0000		
Sample Info:	BFB				
Misc. Info.:	180-0007999-001				
Operator ID:	001562	Instrument ID:	CHHP6		
Method:	\\ChromNA\Pittsburgh\ChromData\CHHP6\20150731-7999.b\MSVOA_LL_CHHP6.m				
Limit Group:	VOA 8260C ICAL				
Last Update:	03-Aug-2015 12:15:22	Calib Date:	31-Jul-2015 18:02:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Pittsburgh\ChromData\CHHP6\20150731-7999.b\60731014.D				
Column 1 :	DB-624 (0.18 mm)		Det: MS SCAN		
Process Host:	XAWRK049				

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
$ 10 BFB	95	8.381	8.381	0.000	0	114672	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

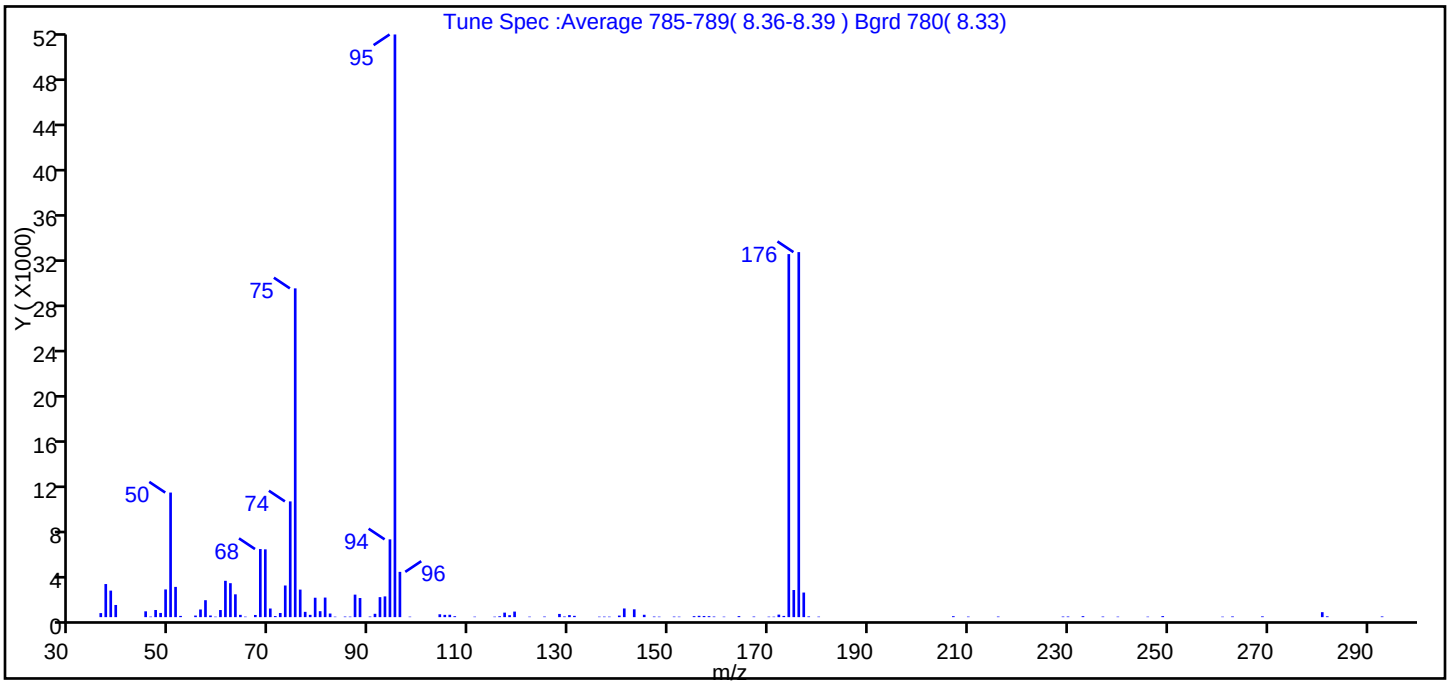
VOABFB25_00064 Amount Added: 1.00 Units: uL

MS Tune Report

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150731-7999.b\60731001.D
Injection Date: 31-Jul-2015 12:10:30 Instrument ID: CHHP6
Lims ID: BFB
Client ID:
Operator ID: 001562 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C ICAL
Tune Method: BFB Method 8260

$ 10 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	21.4
75	30 to 60% of m/z 95	56.4
96	5 to 9% of m/z 95	7.8
173	Less than 2% of m/z 174	0.2 (0.3)
174	50 to 120% of m/z 95	62.3
175	5 to 9% of m/z 174	4.7 (7.5)
176	Greater than 95% but less than 101% of m/z 174	62.6 (100.6)
177	5 to 9% of m/z 176	4.2 (6.7)

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150731-7999.b\60731001.D\MSVOA_LL_CHHP6.rslt\spectra
Injection Date: 31-Jul-2015 12:10:30
Spectrum: Tune Spec :Average 785-789(8.36-8.39) Bgrd 780(8.33)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 113

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	357	73.00	2786	116.00	79	170.00	42
37.00	2914	74.00	10190	117.00	397	171.00	42
38.00	2336	75.00	28944	118.00	172	172.00	223
39.00	1071	76.00	2425	119.00	489	173.00	107
45.00	513	77.00	467	122.00	43	174.00	31960
46.00	47	78.00	201	125.00	52	175.00	2388
47.00	630	79.00	1709	128.00	283	176.00	32136
48.00	370	80.00	524	129.00	57	177.00	2165
49.00	2439	81.00	1723	130.00	180	178.00	64
50.00	10968	82.00	318	131.00	115	180.00	45
51.00	2663	83.00	42	136.00	43	207.00	82
52.00	110	85.00	51	137.00	46	210.00	48
55.00	140	86.00	45	138.00	43	216.00	52
56.00	674	87.00	1982	140.00	137	229.00	53
57.00	1491	88.00	1683	141.00	763	230.00	56
58.00	144	90.00	51	143.00	689	233.00	85
59.00	42	91.00	295	145.00	209	237.00	52
60.00	626	92.00	1761	147.00	52	240.00	44
61.00	3200	93.00	1826	148.00	43	246.00	42
62.00	2990	94.00	6848	151.00	49	249.00	90
63.00	2009	95.00	51296	152.00	43	261.00	42
64.00	201	96.00	3987	155.00	87	263.00	61
65.00	44	98.00	42	156.00	116	269.00	68
67.00	191	104.00	251	157.00	98	281.00	438
68.00	5995	105.00	201	158.00	87	282.00	71
69.00	5969	106.00	210	159.00	54	293.00	62
70.00	760	107.00	82	161.00	42		
71.00	96	111.00	42	164.00	89		
72.00	366	115.00	42	167.00	53		

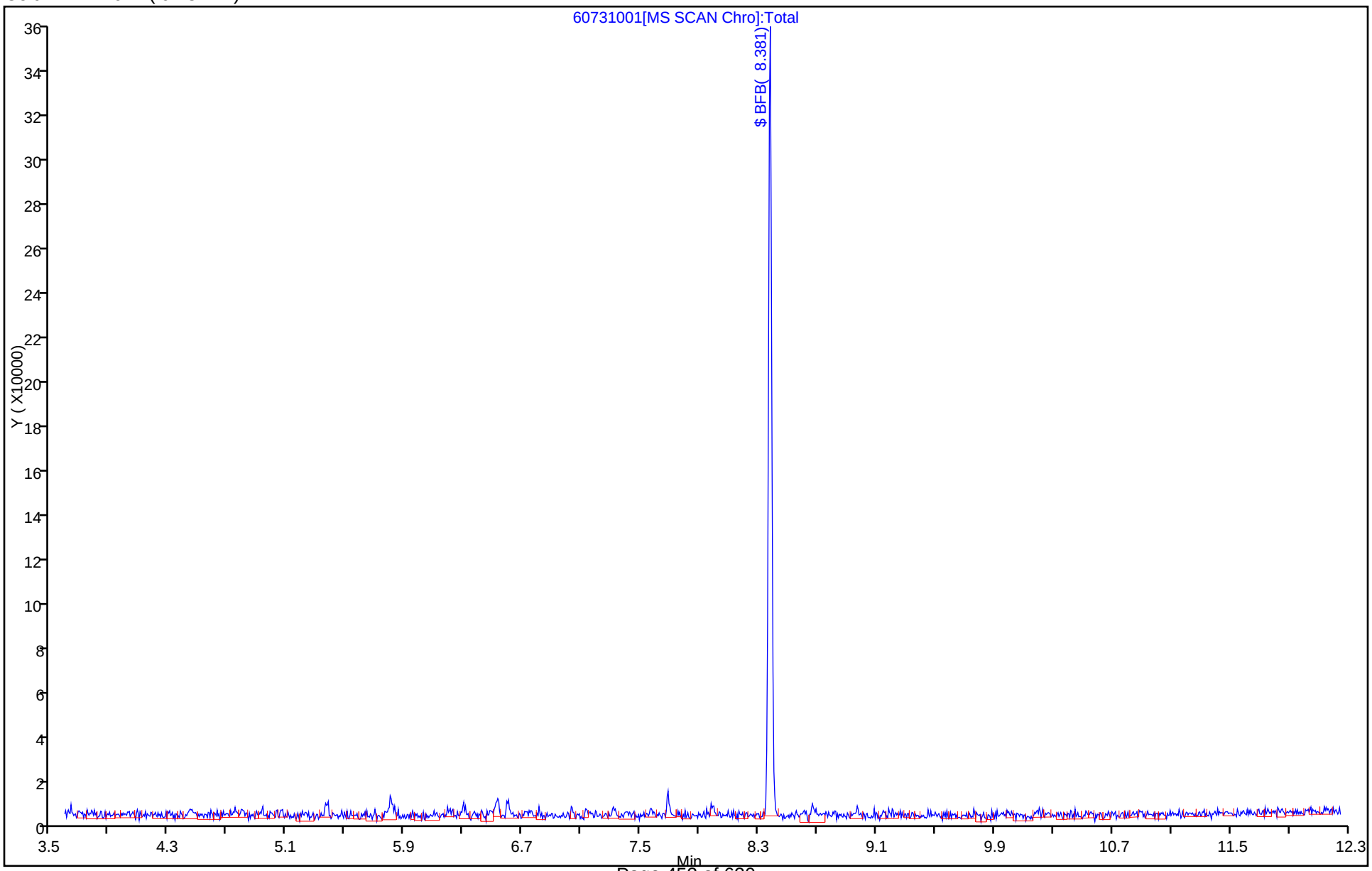
Report Date: 03-Aug-2015 12:15:24 Chrom Revision: 2.2 09-Jul-2015 10:16:20

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150731-7999.b\60731001.D

Injection Date:	31-Jul-2015 12:10:30	Instrument ID:	CHHP6	Operator ID:	001562
Lims ID:	BFB			Worklist Smp#:	1
Client ID:					
Injection Vol:	5.0 mL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	MSVOA_LL_CHHP6	Limit Group:	VOA 8260C ICAL		

Column: DB-624 (0.18 mm)



TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File:	\\ChromNA\Pittsburgh\ChromData\CHHP6\20151007-8874.b\61007004.D				
Lims ID:	BFB				
Client ID:					
Sample Type:	BFB				
Inject. Date:	07-Oct-2015 11:51:30	ALS Bottle#:	1	Worklist Smp#:	4
Injection Vol:	5.0 mL	Dil. Factor:	1.0000		
Sample Info:	BFB				
Misc. Info.:	180-0008874-004				
Operator ID:	001562	Instrument ID:	CHHP6		
Method:	\\ChromNA\Pittsburgh\ChromData\CHHP6\20151007-8874.b\MSVOA_LL_CHHP6.m				
Limit Group:	VOA 8260C ICAL				
Last Update:	07-Oct-2015 14:05:06	Calib Date:	14-Sep-2015 16:03:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Pittsburgh\ChromData\CHHP6\20150914-8521.b\60914006.D				
Column 1 :	DB-624 (0.18 mm)		Det: MS SCAN		
Process Host:	XAWRK012				
First Level Reviewer: fergusond		Date:	07-Oct-2015 12:01:04		

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
$ 10 BFB	95	8.375	8.375	0.000	0	151730	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

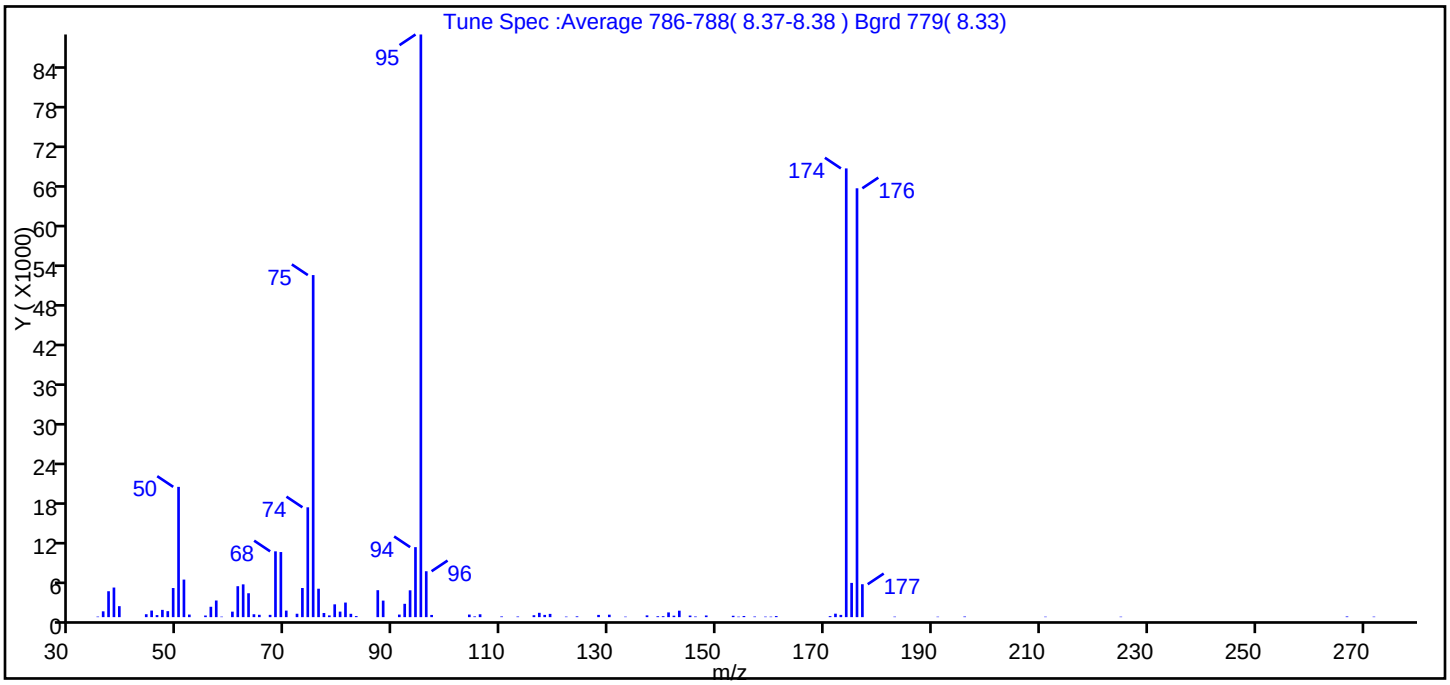
VOABFB25_00067 Amount Added: 1.00 Units: uL

MS Tune Report

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20151007-8874.b\61007004.D
Injection Date: 07-Oct-2015 11:51:30 Instrument ID: CHHP6
Lims ID: BFB
Client ID:
Operator ID: 001562 ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C ICAL
Tune Method: BFB Method 8260

$ 10 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	22.4
75	30 to 60% of m/z 95	58.7
96	5 to 9% of m/z 95	7.9
173	Less than 2% of m/z 174	0.4 (0.5)
174	50 to 120% of m/z 95	77.0
175	5 to 9% of m/z 174	5.9 (7.6)
176	Greater than 95% but less than 101% of m/z 174	73.6 (95.6)
177	5 to 9% of m/z 176	5.6 (7.7)

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20151007-8874.b\61007004.D\MSVOA_LL_CHHP6.rslt\spectra
Injection Date: 07-Oct-2015 11:51:30
Spectrum: Tune Spec :Average 786-788(8.37-8.38) Bgrd 779(8.33)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 93

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	82	67.00	346	97.00	334	153.00	207
36.00	882	68.00	9960	104.00	391	154.00	74
37.00	3922	69.00	9853	105.00	113	155.00	169
38.00	4480	70.00	990	106.00	434	157.00	95
39.00	1663	72.00	516	110.00	106	159.00	80
44.00	442	73.00	4409	113.00	95	160.00	74
45.00	997	74.00	16624	116.00	289	161.00	164
46.00	310	75.00	51776	117.00	654	171.00	153
47.00	1102	76.00	4303	118.00	339	172.00	524
48.00	907	77.00	627	119.00	493	173.00	339
49.00	4406	78.00	263	122.00	82	174.00	67920
50.00	19720	79.00	1939	124.00	121	175.00	5183
51.00	5685	80.00	838	128.00	340	176.00	64912
52.00	390	81.00	2207	130.00	371	177.00	4982
55.00	245	82.00	505	133.00	76	183.00	76
56.00	1569	83.00	160	137.00	267	191.00	67
57.00	2518	87.00	4079	139.00	137	196.00	94
58.00	75	88.00	2504	140.00	143	211.00	68
60.00	833	91.00	387	141.00	716	225.00	68
61.00	4684	92.00	2018	142.00	220	267.00	105
62.00	4963	93.00	4062	143.00	977	272.00	76
63.00	3617	94.00	10595	145.00	239		
64.00	438	95.00	88192	146.00	99		
65.00	357	96.00	6948	148.00	250		

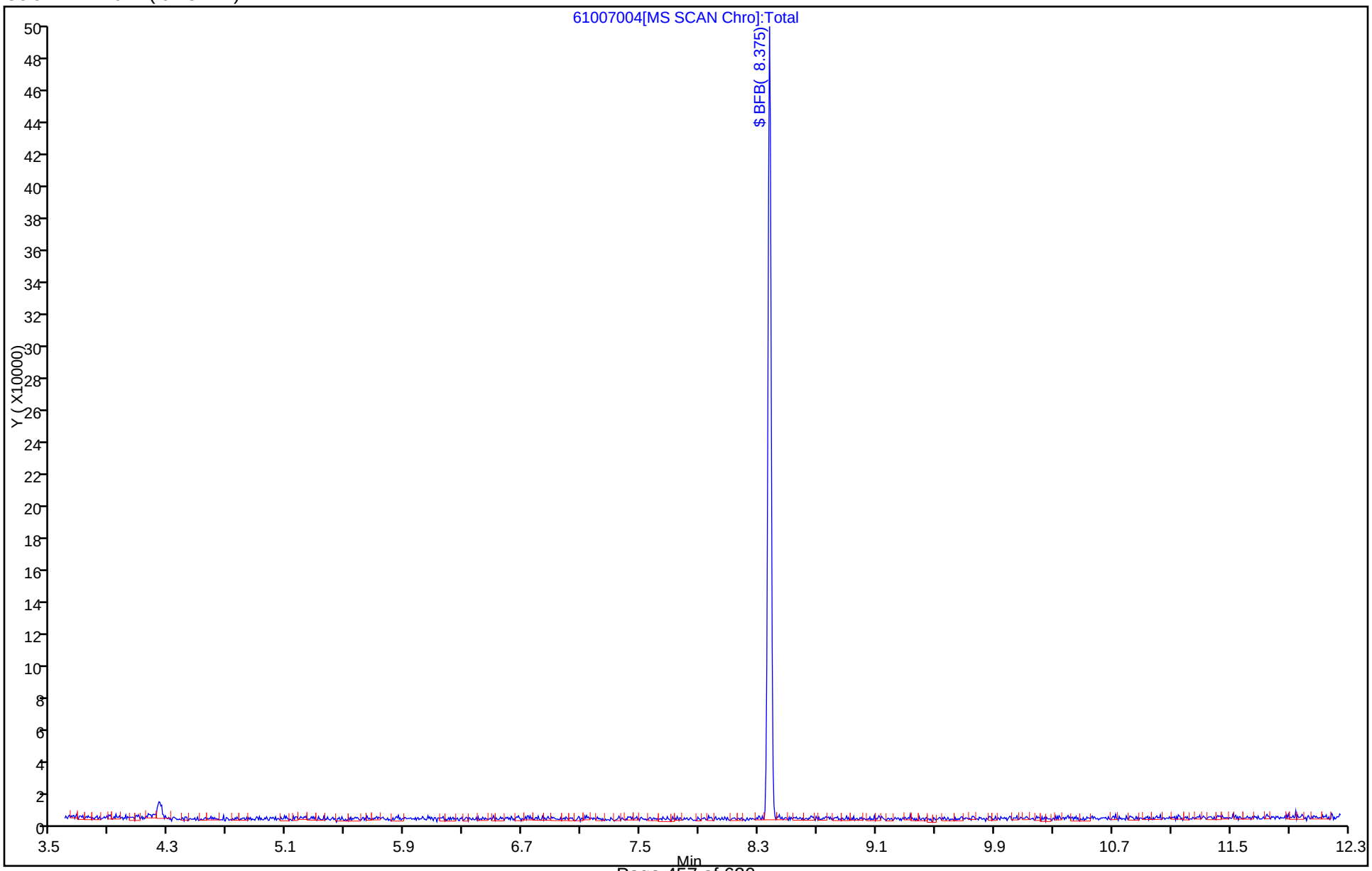
Report Date: 07-Oct-2015 14:05:08 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20151007-8874.b\61007004.D

Injection Date:	07-Oct-2015 11:51:30	Instrument ID:	CHHP6	Operator ID:	001562
Lims ID:	BFB			Worklist Smp#:	4
Client ID:					
Injection Vol:	5.0 mL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	MSVOA_LL_CHHP6	Limit Group:	VOA 8260C ICAL		

Column: DB-624 (0.18 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-48309-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 180-156189/5

Matrix: Water | Lab File ID: 61007005.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 10/07/2015 14:07

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 156189 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	1.0	U	1.0	0.28
75-01-4	Vinyl chloride	1.0	U	1.0	0.23
74-83-9	Bromomethane	1.0	U	1.0	0.31
75-00-3	Chloroethane	1.0	U	1.0	0.21
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.30
67-64-1	Acetone	5.0	U	5.0	2.5
75-15-0	Carbon disulfide	1.0	U	1.0	0.21
75-09-2	Methylene Chloride	1.0	U	1.0	0.13
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.17
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.18
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.12
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.24
74-97-5	Bromochloromethane	1.0	U	1.0	0.18
78-93-3	2-Butanone (MEK)	5.0	U	5.0	0.55
67-66-3	Chloroform	1.0	U	1.0	0.17
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.29
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.14
71-43-2	Benzene	1.0	U	1.0	0.11
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
79-01-6	Trichloroethene	1.0	U	1.0	0.14
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.095
75-27-4	Bromodichloromethane	1.0	U	1.0	0.13
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.19
108-10-1	4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	0.53
108-88-3	Toluene	1.0	U	1.0	0.15
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.15
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.20
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
591-78-6	2-Hexanone	5.0	U	5.0	0.16
124-48-1	Dibromochloromethane	1.0	U	1.0	0.14
106-93-4	1,2-Dibromoethane (EDB)	1.0	U	1.0	0.18
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.28
100-41-4	Ethylbenzene	1.0	U	1.0	0.23
1330-20-7	Xylenes, Total	3.0	U	3.0	0.49
100-42-5	Styrene	1.0	U	1.0	0.097

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh Job No.: 180-48309-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 180-156189/5

Matrix: Water Lab File ID: 61007005.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 10/07/2015 14:07

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 156189 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-25-2	Bromoform	1.0	U	1.0	0.19
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.20
107-13-1	Acrylonitrile	20	U	20	0.55
123-91-1	1,4-Dioxane	200	U	200	34

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		64-135
2037-26-5	Toluene-d8 (Surr)	102		71-118
460-00-4	4-Bromofluorobenzene (Surr)	86		70-118
1868-53-7	Dibromofluoromethane (Surr)	101		70-128

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20151007-8874.b\61007005.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 07-Oct-2015 14:07:30 ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: MB
Misc. Info.: 180-0008874-005
Operator ID: 001562 Instrument ID: CHHP6

Method: \\ChromNA\Pittsburgh\ChromData\CHHP6\20151007-8874.b\MSVOA_LL_CHHP6.m
Limit Group: VOA 8260C ICAL
Last Update: 07-Oct-2015 14:36:30 Calib Date: 14-Sep-2015 16:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150914-8521.b\60914006.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK012

First Level Reviewer: fergusond Date: 07-Oct-2015 14:36:29

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
*	1 TBA-d9 (IS)	65	4.224	4.245	-0.021	92	185013	1000.0	1000.0	
*	2 Fluorobenzene (IS)	96	7.290	7.281	0.009	97	465495	50.0	50.0	
*	3 Chlorobenzene-d5	119	10.398	10.396	0.002	90	112798	50.0	50.0	
*	4 1,4-Dichlorobenzene-d4	152	12.746	12.750	-0.004	98	182602	50.0	50.0	
$	5 Dibromofluoromethane (Surr	113	6.553	6.551	0.002	93	107821	50.0	50.3	
$	6 1,2-Dichloroethane-d4 (Sur	65	6.931	6.928	0.003	70	174216	50.0	50.4	
$	7 Toluene-d8 (Surr)	98	8.944	8.942	0.002	94	452122	50.0	50.8	
$	8 4-Bromofluorobenzene (Surr	95	11.585	11.588	-0.004	86	169915	50.0	43.0	
	11 Dichlorodifluoromethane	85		1.605					ND	
	12 Chloromethane	50		1.757					ND	
	13 Vinyl chloride	62		1.903					ND	
	14 Butadiene	39		1.933					ND	
	15 Bromomethane	94		2.232					ND	
	17 Dichlorofluoromethane	67		2.651					ND	
	18 Trichlorofluoromethane	101		2.694					ND	
	19 Ethanol	45		2.928					ND	
	20 Ethyl ether	59		3.047					ND	
	21 Acrolein	56		3.211					ND	
	22 1,1-Dichloroethene	96		3.339					ND	
	23 1,1,2-Trichloro-1,2,2-trif	101		3.412					ND	
	24 Acetone	43		3.418					ND	
	25 Iodomethane	142		3.533					ND	
	26 Carbon disulfide	76		3.625					ND	
	27 Isopropyl alcohol	45		3.683					ND	
	28 Acetonitrile	40		3.841					ND	
	29 3-Chloro-1-propene	76		3.911					ND	
	30 Methyl acetate	43		3.923					ND	
	32 2-Methyl-2-propanol	59		4.379					ND	
	33 Acrylonitrile	53		4.501					ND	
	34 trans-1,2-Dichloroethene	96		4.568					ND	
	35 Methyl tert-butyl ether	73		4.574					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
37 1,1-Dichloroethane	63		5.188					ND	
39 2-Chloro-1,3-butadiene	53		5.295					ND	
40 Isopropyl ether	45		5.295					ND	
41 Tert-butyl ethyl ether	59		5.769					ND	
43 cis-1,2-Dichloroethene	96		5.936					ND	
42 2,2-Dichloropropane	77		5.942					ND	
44 2-Butanone (MEK)	43		5.949					ND	
45 Propionitrile	54		6.013					ND	
46 Ethyl acetate	43		6.025					ND	
47 Methacrylonitrile	41		6.195					ND	
48 Chlorobromomethane	128		6.222					ND	
49 Tetrahydrofuran	42		6.241					ND	
50 Chloroform	83		6.368					ND	
51 1,1,1-Trichloroethane	97		6.539					ND	
52 Cyclohexane	56		6.612					ND	
53 Carbon tetrachloride	117		6.709					ND	
54 1,1-Dichloropropene	75		6.727					ND	
55 Isobutyl alcohol	41		6.904					ND	
56 Benzene	78		6.940					ND	
57 1,2-Dichloroethane	62		7.013					ND	
148 Isooctane	57		7.102					ND	
58 Tert-amyl methyl ether	73		7.126					ND	
59 n-Heptane	43		7.305					ND	
60 n-Butanol	56		7.606					ND	
61 Trichloroethene	130		7.676					ND	
62 Ethyl acrylate	55		7.789					ND	
63 Methylcyclohexane	83		7.920					ND	
64 1,2-Dichloropropane	63		7.950					ND	
65 1,4-Dioxane	88		8.029					ND	
66 Methyl methacrylate	69		8.032					ND	
67 Dibromomethane	93		8.035					ND	
68 Dichlorobromomethane	83		8.230					ND	
69 2-Nitropropane	41		8.446					ND	
70 2-Chloroethyl vinyl ether	63		8.530					ND	
71 cis-1,3-Dichloropropene	75		8.674					ND	
72 4-Methyl-2-pentanone (MIBK	43		8.826					ND	
73 Toluene	91		9.009					ND	
74 trans-1,3-Dichloropropene	75		9.252					ND	
75 Ethyl methacrylate	69		9.313					ND	
77 Tetrachloroethene	164		9.526					ND	
78 1,3-Dichloropropane	76		9.605					ND	
79 2-Hexanone	43		9.659					ND	
80 n-Butyl acetate	43		9.784					ND	
81 Chlorodibromomethane	129		9.824					ND	
82 Ethylene Dibromide	107		9.939					ND	
83 3-Chlorobenzotrifluoride	180		10.390					ND	
84 Chlorobenzene	112		10.426					ND	
85 4-Chlorobenzotrifluoride	180		10.481					ND	
87 Ethylbenzene	106		10.523					ND	
86 1,1,1,2-Tetrachloroethane	131		10.523					ND	
88 m-Xylene & p-Xylene	106		10.657					ND	
89 o-Xylene	106		11.040					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
91 Bromoform	173		11.241					ND	
129 Cyclohexanol	57		11.246					ND	
92 2-Chlorobenzotrifluoride	180		11.302					ND	
93 Isopropylbenzene	105		11.405					ND	
94 Cyclohexanone	55		11.494					ND	
96 1,1,2,2-Tetrachloroethane	83		11.716					ND	
95 Bromobenzene	156		11.722					ND	
97 trans-1,4-Dichloro-2-buten	53		11.746					ND	
98 1,2,3-Trichloropropane	110		11.770					ND	
99 N-Propylbenzene	120		11.825					ND	
100 2-Chlorotoluene	126		11.910					ND	
101 3-Chlorotoluene	126		11.977					ND	
102 1,3,5-Trimethylbenzene	105		12.008					ND	
103 4-Chlorotoluene	126		12.038					ND	
104 tert-Butylbenzene	119		12.324					ND	
105 Pentachloroethane	167		12.352					ND	
106 1,2,4-Trimethylbenzene	105		12.385					ND	
107 1,2-dichloro-4-(trifluorom	214		12.421					ND	
108 sec-Butylbenzene	105		12.549					ND	
109 1,3-Dichlorobenzene	146		12.665					ND	
110 4-Isopropyltoluene	119		12.707					ND	
111 1,4-Dichlorobenzene	146		12.774					ND	
113 2,4-Dichloro-1-(triflourom	214		12.792					ND	
112 1,2,3-Trimethylbenzene	105		12.796					ND	
114 2,5-Dichlorobenzotrifluori	214		12.835					ND	
115 Benzyl chloride	91		12.881					ND	
116 n-Butylbenzene	91		13.115					ND	
117 1,2-Dichlorobenzene	146		13.127					ND	
118 1,2-Dibromo-3-Chloropropan	75		13.918					ND	
119 2,4- & 2,5- & 2,6- Dichlor	125		14.058					ND	
120 1,3,5-Trichlorobenzene	180		14.110					ND	
121 2,3- & 3,4- Dichlorotoluen	125		14.478					ND	
122 1,2,4-Trichlorobenzene	180		14.739					ND	
125 1,2,3-Trichlorobenzene	180		15.232					ND	
126 2,4,5-Trichlorotoluene	159		16.011					ND	
127 2,3,6-Trichlorotoluene	159		16.108					ND	
128 2-Methylnaphthalene	142		16.154					ND	
153 1,2 Epoxybutane TIC	1		0.000					ND	
145 2,3-Dichlorotoluene	1		0.000					ND	
147 2,6-Dichlorotoluene	1		0.000					ND	
146 3,4-Dichlorotoluene	1		0.000					ND	
152 Formaldehyde TIC	1		0.000					ND	
150 Tert-butyl ethyl ether (TI	1		0.000					ND	
151 Tert-amyl methyl ether (TI	1		0.000					ND	
144 2,4-Dichlorotoluene	1		0.000					ND	
149 Isopropyl ether TIC	1		0.000					ND	
143 2,5-Dichlorotoluene	1		0.000					ND	
S 130 1,2-Dichloroethene, Total	96		1.000					ND	
S 131 Xylenes, Total	106		1.000					ND	
S 132 1,3-Dichloropropene, Total	1		0.000					ND	
T 133 Tetrahydrofuran TIC	42		0.000					ND	
T 134 Methyl n-amyl ketone TIC	43		0.000					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
T 135 Mesityl oxide TIC	83		0.000					ND	

Reagents:

VOA8260INT_00042	Amount Added:	2.00	Units: uL	Run Reagent
VOA8260SURR_00042	Amount Added:	2.00	Units: uL	Run Reagent

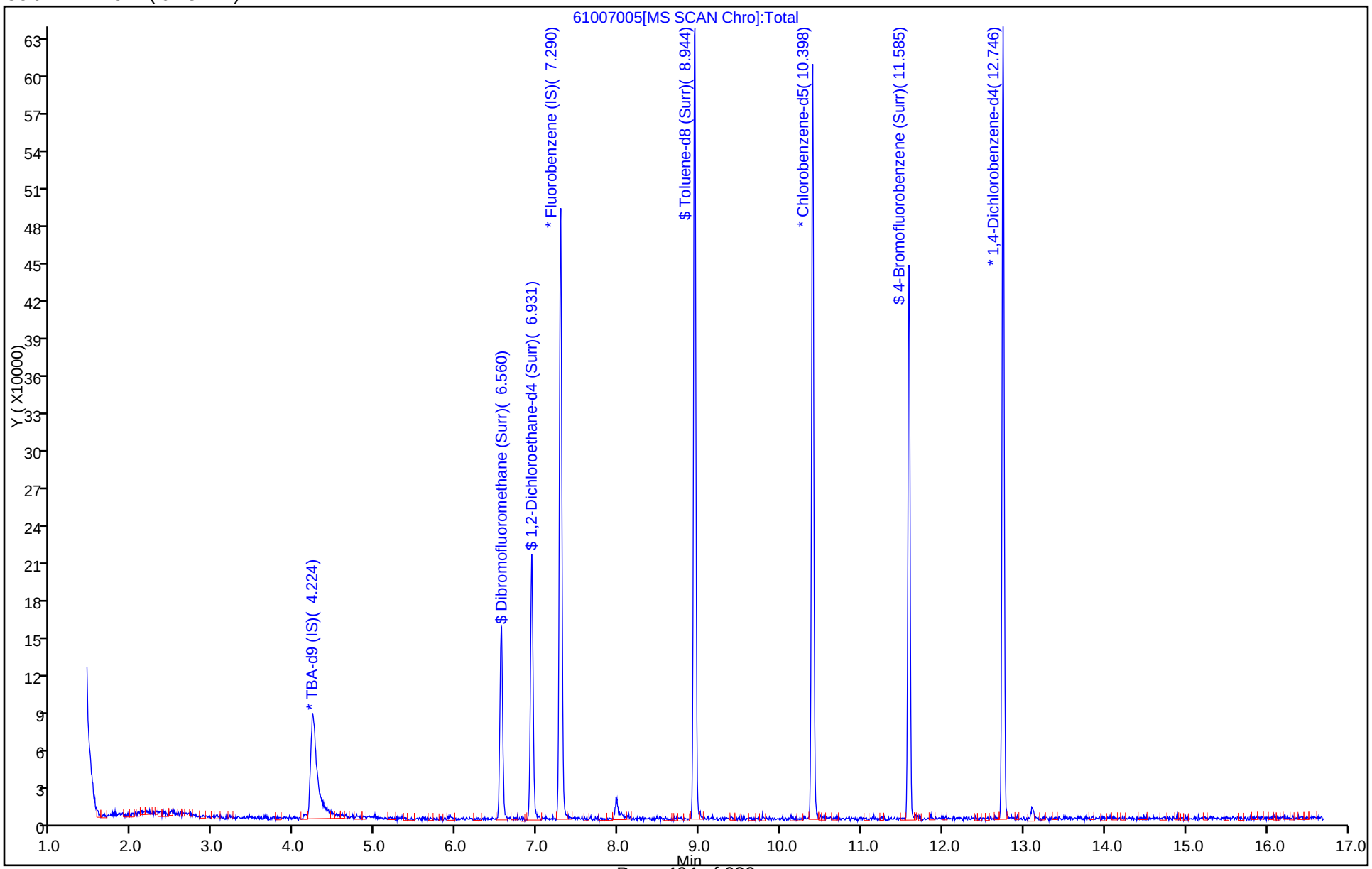
Report Date: 07-Oct-2015 14:36:31 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20151007-8874.b\61007005.D

Injection Date:	07-Oct-2015 14:07:30	Instrument ID:	CHHP6	Operator ID:	001562
Lims ID:	MB			Worklist Smp#:	5
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	MSVOA_LL_CHHP6	Limit Group:	VOA 8260C ICAL		

Column: DB-624 (0.18 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-48309-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 180-156309/6

Matrix: Water | Lab File ID: 51008006.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 10/08/2015 13:21

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 156309 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	1.0	U	1.0	0.28
75-01-4	Vinyl chloride	1.0	U	1.0	0.23
74-83-9	Bromomethane	1.0	U	1.0	0.31
75-00-3	Chloroethane	1.0	U	1.0	0.21
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.30
67-64-1	Acetone	5.0	U	5.0	2.5
75-15-0	Carbon disulfide	1.0	U	1.0	0.21
75-09-2	Methylene Chloride	1.0	U	1.0	0.13
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.17
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.18
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.12
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.24
74-97-5	Bromochloromethane	1.0	U	1.0	0.18
78-93-3	2-Butanone (MEK)	5.0	U	5.0	0.55
67-66-3	Chloroform	1.0	U	1.0	0.17
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.29
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.14
71-43-2	Benzene	1.0	U	1.0	0.11
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
79-01-6	Trichloroethene	1.0	U	1.0	0.14
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.095
75-27-4	Bromodichloromethane	1.0	U	1.0	0.13
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.19
108-10-1	4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	0.53
108-88-3	Toluene	1.0	U	1.0	0.15
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.15
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.20
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
591-78-6	2-Hexanone	5.0	U	5.0	0.16
124-48-1	Dibromochloromethane	1.0	U	1.0	0.14
106-93-4	1,2-Dibromoethane (EDB)	1.0	U	1.0	0.18
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.28
100-41-4	Ethylbenzene	1.0	U	1.0	0.23
1330-20-7	Xylenes, Total	3.0	U	3.0	0.49
100-42-5	Styrene	1.0	U	1.0	0.097

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh Job No.: 180-48309-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 180-156309/6

Matrix: Water Lab File ID: 51008006.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 10/08/2015 13:21

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 156309 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-25-2	Bromoform	1.0	U	1.0	0.19
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.20
107-13-1	Acrylonitrile	20	U	20	0.55
123-91-1	1,4-Dioxane	200	U	200	34

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	90		64-135
2037-26-5	Toluene-d8 (Surr)	91		71-118
460-00-4	4-Bromofluorobenzene (Surr)	92		70-118
1868-53-7	Dibromofluoromethane (Surr)	100		70-128

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151008-8892.b\51008006.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 08-Oct-2015 13:21:30 ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: MB
Misc. Info.: 180-0008892-006
Operator ID: 001562 Instrument ID: CHHP5

Method: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151008-8892.b\MSVOA_LL_CHHP5.m
Limit Group: VOA 8260C ICAL
Last Update: 08-Oct-2015 13:33:59 Calib Date: 26-Aug-2015 17:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20150826-8300.b\50826014.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK015

First Level Reviewer: fergusond Date: 08-Oct-2015 13:33:58

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.268	4.269	-0.001	0	152547	1000.0	1000.0	
* 2 Fluorobenzene (IS)	96	7.292	7.286	0.006	98	310216	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.388	10.389	-0.001	86	82365	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.730	12.731	-0.001	95	126878	50.0	50.0	
$ 5 Dibromofluoromethane (Surr	113	6.562	6.562	0.000	94	75931	50.0	49.8	
$ 6 1,2-Dichloroethane-d4 (Sur	65	6.939	6.934	0.005	0	93672	50.0	44.8	
$ 7 Toluene-d8 (Surr)	98	8.940	8.935	0.005	93	290408	50.0	45.7	
$ 8 4-Bromofluorobenzene (Surr	95	11.568	11.569	-0.001	91	110765	50.0	46.2	
11 Dichlorodifluoromethane	85		1.598					ND	
12 Chloromethane	50		1.769					ND	
13 Vinyl chloride	62		1.909					ND	
14 Butadiene	39		1.945					ND	
15 Bromomethane	94		2.255					ND	
16 Chloroethane	64		2.395					ND	
17 Dichlorofluoromethane	67		2.669					ND	
18 Trichlorofluoromethane	101		2.706					ND	
19 Ethanol	45		2.957					ND	
20 Ethyl ether	59		3.046					ND	
21 Acrolein	56		3.235					ND	
22 1,1-Dichloroethene	96		3.338					ND	
23 1,1,2-Trichloro-1,2,2-trif	101		3.423					ND	
24 Acetone	43		3.448					ND	
25 Iodomethane	142		3.539					ND	
26 Carbon disulfide	76		3.630					ND	
27 Isopropyl alcohol	45		3.706					ND	
29 Acetonitrile	40		3.870					ND	
28 3-Chloro-1-propene	76		3.916					ND	
30 Methyl acetate	43		3.940					ND	
31 Methylene Chloride	84		4.135					ND	
32 2-Methyl-2-propanol	59		4.397					ND	
33 Acrylonitrile	53		4.525					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
34 trans-1,2-Dichloroethene	96		4.561					ND	
35 Methyl tert-butyl ether	73		4.573					ND	
36 Hexane	57		4.987					ND	
37 1,1-Dichloroethane	63		5.200					ND	
38 Vinyl acetate	43		5.255					ND	
39 2-Chloro-1,3-butadiene	53		5.299					ND	
41 Isopropyl ether	45		5.299					ND	
40 Isopropyl ether TIC	45		5.409					ND	
42 Tert-butyl ethyl ether	59		5.780					ND	
44 2,2-Dichloropropane	77		5.942					ND	
45 cis-1,2-Dichloroethene	96		5.954					ND	
46 2-Butanone (MEK)	43		5.960					ND	
43 Tert-butyl ethyl ether (TI	59		5.961					ND	
47 Propionitrile	54		6.036					ND	
48 Ethyl acetate	43		6.036					ND	
50 Methacrylonitrile	41		6.212					ND	
49 Chlorobromomethane	128		6.234					ND	
51 Tetrahydrofuran	42		6.246					ND	
52 Chloroform	83		6.380					ND	
53 1,1,1-Trichloroethane	97		6.538					ND	
54 Cyclohexane	56		6.611					ND	
56 Carbon tetrachloride	117		6.715					ND	
55 1,1-Dichloropropene	75		6.733					ND	
57 Isobutyl alcohol	41		6.927					ND	
58 Benzene	78		6.946					ND	
59 1,2-Dichloroethane	62		7.025					ND	
61 Tert-amyl methyl ether	73		7.125					ND	
60 Tert-amyl methyl ether (TI	73		7.262					ND	
62 n-Heptane	43		7.311					ND	
63 n-Butanol	56		7.629					ND	
64 Trichloroethene	130		7.676					ND	
65 Ethyl acrylate	55		7.800					ND	
66 Methylcyclohexane	83		7.913					ND	
67 1,2-Dichloropropane	63		7.949					ND	
70 1,4-Dioxane	88		8.029					ND	
69 Methyl methacrylate	69		8.031					ND	
68 Dibromomethane	93		8.035					ND	
71 Dichlorobromomethane	83		8.235					ND	
72 2-Nitropropane	41		8.451					ND	
73 2-Chloroethyl vinyl ether	63		8.527					ND	
74 cis-1,3-Dichloropropene	75		8.673					ND	
75 4-Methyl-2-pentanone (MIBK	43		8.826					ND	
76 Toluene	91		9.002					ND	
77 trans-1,3-Dichloropropene	75		9.251					ND	
78 Ethyl methacrylate	69		9.312					ND	
79 1,1,2-Trichloroethane	97		9.446					ND	
80 Tetrachloroethene	164		9.519					ND	
81 1,3-Dichloropropane	76		9.604					ND	
82 2-Hexanone	43		9.659					ND	
83 n-Butyl acetate	43		9.783					ND	
84 Chlorodibromomethane	129		9.811					ND	
85 Ethylene Dibromide	107		9.927					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
86 3-Chlorobenzotrifluoride	180		10.389					ND	
87 Chlorobenzene	112		10.413					ND	
88 4-Chlorobenzotrifluoride	180		10.474					ND	
89 1,1,1,2-Tetrachloroethane	131		10.511					ND	
90 Ethylbenzene	106		10.517					ND	
91 m-Xylene & p-Xylene	106		10.644					ND	
92 o-Xylene	106		11.028					ND	
93 Styrene	104		11.046					ND	
94 Bromoform	173		11.235					ND	
95 Cyclohexanol	57		11.245					ND	
96 2-Chlorobenzotrifluoride	180		11.295					ND	
97 Isopropylbenzene	105		11.399					ND	
98 Cyclohexanone	55		11.480					ND	
99 1,1,2,2-Tetrachloroethane	83		11.709					ND	
100 Bromobenzene	156		11.709					ND	
102 trans-1,4-Dichloro-2-buten	53		11.746					ND	
101 1,2,3-Trichloropropane	110		11.764					ND	
103 N-Propylbenzene	120		11.812					ND	
104 2-Chlorotoluene	126		11.898					ND	
105 3-Chlorotoluene	126		11.965					ND	
106 1,3,5-Trimethylbenzene	105		11.995					ND	
107 4-Chlorotoluene	126		12.019					ND	
108 tert-Butylbenzene	119		12.311					ND	
109 Pentachloroethane	167		12.338					ND	
110 1,2,4-Trimethylbenzene	105		12.366					ND	
111 1,2-dichloro-4-(trifluorom	214		12.415					ND	
112 sec-Butylbenzene	105		12.530					ND	
113 1,3-Dichlorobenzene	146		12.646					ND	
114 4-Isopropyltoluene	119		12.689					ND	
115 1,4-Dichlorobenzene	146		12.755					ND	
117 1,2,3-Trimethylbenzene	105		12.776					ND	
116 2,4-Dichloro-1-(triflourom	214		12.780					ND	
118 2,5-Dichlorobenzotrifluori	214		12.822					ND	
119 Benzyl chloride	91		12.867					ND	
120 n-Butylbenzene	91		13.096					ND	
121 1,2-Dichlorobenzene	146		13.108					ND	
122 1,2-Dibromo-3-Chloropropan	75		13.899					ND	
123 2,4- & 2,5- & 2,6- Dichlor	125		14.045					ND	
124 1,3,5-Trichlorobenzene	180		14.087					ND	
125 2,3- & 3,4- Dichlorotoluen	125		14.459					ND	
126 1,2,4-Trichlorobenzene	180		14.726					ND	
127 Hexachlorobutadiene	225		14.872					ND	
128 Naphthalene	128		14.988					ND	
129 1,2,3-Trichlorobenzene	180		15.213					ND	
131 2,4,5-Trichlorotoluene	159		15.992					ND	
130 2,3,6-Trichlorotoluene	159		16.089					ND	
132 2-Methylnaphthalene	142		16.134					ND	
146 2,5-Dichlorotoluene	1		0.000					ND	
150 2,6-Dichlorotoluene	1		0.000					ND	
147 2,4-Dichlorotoluene	1		0.000					ND	
149 3,4-Dichlorotoluene	1		0.000					ND	
151 Isooctane	57		0.000					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
148 2,3-Dichlorotoluene	1		0.000					ND	
152 Formaldehyde TIC	1		0.000					ND	
S 133 Xylenes, Total	106		1.000					ND	
S 134 1,2-Dichloroethene, Total	96		1.000					ND	
S 135 1,3-Dichloropropene, Total	1		0.000					ND	
T 136 Mesityl oxide TIC	83		0.000					ND	
T 138 Methyl n-amyl ketone TIC	43		0.000					ND	
T 137 Tetrahydrofuran TIC	42		6.253					ND	
T 153 1,2 Epoxybutane TIC	42		6.253					ND	

Reagents:

VOA8260INT_00042	Amount Added:	2.00	Units: uL	Run Reagent
VOA8260SURR_00042	Amount Added:	2.00	Units: uL	Run Reagent

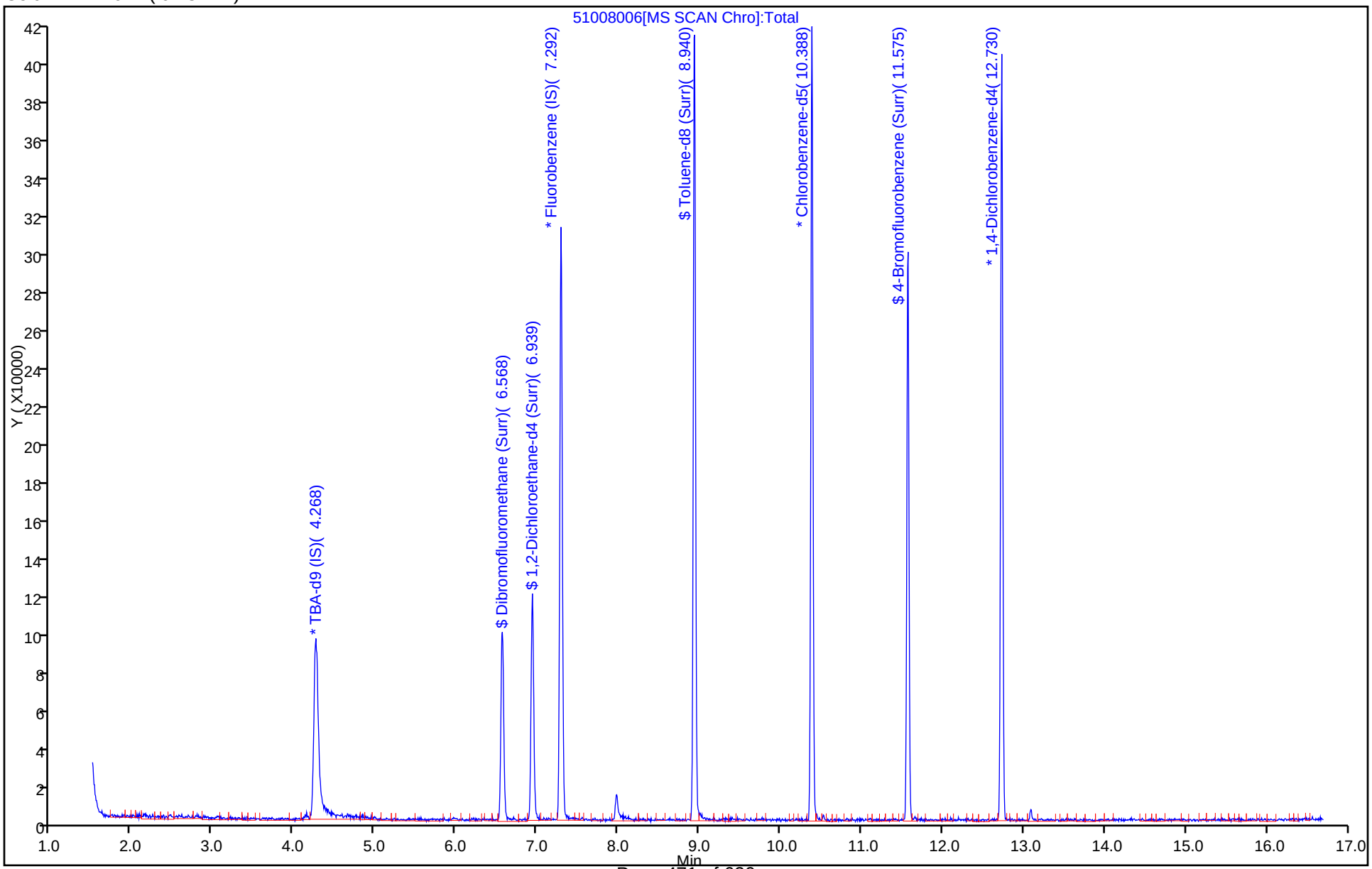
Report Date: 08-Oct-2015 13:33:59 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151008-8892.b\51008006.D

Injection Date:	08-Oct-2015 13:21:30	Instrument ID:	CHHP5	Operator ID:	001562
Lims ID:	MB			Worklist Smp#:	6
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	MSVOA_LL_CHHP5	Limit Group:	VOA 8260C ICAL		

Column: DB-624 (0.18 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-48309-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 180-156189/8

Matrix: Water | Lab File ID: 61007008.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 10/07/2015 15:36

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 156189 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	11.3		1.0	0.28
75-01-4	Vinyl chloride	9.97		1.0	0.23
74-83-9	Bromomethane	8.04		1.0	0.31
75-00-3	Chloroethane	8.97		1.0	0.21
75-35-4	1,1-Dichloroethene	8.60		1.0	0.30
67-64-1	Acetone	20.8		5.0	2.5
75-15-0	Carbon disulfide	8.38		1.0	0.21
75-09-2	Methylene Chloride	8.72		1.0	0.13
156-60-5	trans-1,2-Dichloroethene	8.87		1.0	0.17
1634-04-4	Methyl tert-butyl ether	8.96		1.0	0.18
75-34-3	1,1-Dichloroethane	9.57		1.0	0.12
156-59-2	cis-1,2-Dichloroethene	8.99		1.0	0.24
74-97-5	Bromochloromethane	10.0		1.0	0.18
78-93-3	2-Butanone (MEK)	24.0		5.0	0.55
67-66-3	Chloroform	8.87		1.0	0.17
71-55-6	1,1,1-Trichloroethane	8.02		1.0	0.29
56-23-5	Carbon tetrachloride	8.84		1.0	0.14
71-43-2	Benzene	9.97		1.0	0.11
107-06-2	1,2-Dichloroethane	9.18		1.0	0.21
79-01-6	Trichloroethene	10.4		1.0	0.14
78-87-5	1,2-Dichloropropane	10.7		1.0	0.095
75-27-4	Bromodichloromethane	9.15		1.0	0.13
10061-01-5	cis-1,3-Dichloropropene	9.63		1.0	0.19
108-10-1	4-Methyl-2-pentanone (MIBK)	20.8		5.0	0.53
108-88-3	Toluene	10.1		1.0	0.15
10061-02-6	trans-1,3-Dichloropropene	8.94		1.0	0.15
79-00-5	1,1,2-Trichloroethane	9.90		1.0	0.20
127-18-4	Tetrachloroethene	10.2		1.0	0.15
591-78-6	2-Hexanone	20.7		5.0	0.16
124-48-1	Dibromochloromethane	9.99		1.0	0.14
106-93-4	1,2-Dibromoethane (EDB)	10.2		1.0	0.18
108-90-7	Chlorobenzene	10.2		1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	10.2		1.0	0.28
100-41-4	Ethylbenzene	9.50		1.0	0.23
1330-20-7	Xylenes, Total	19.1		3.0	0.49
100-42-5	Styrene	10.5		1.0	0.097

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-48309-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 180-156189/8

Matrix: Water | Lab File ID: 61007008.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 10/07/2015 15:36

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 156189 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-25-2	Bromoform	10.8		1.0	0.19
79-34-5	1,1,2,2-Tetrachloroethane	9.90		1.0	0.20
107-13-1	Acrylonitrile	125		20	0.55
123-91-1	1,4-Dioxane	223		200	34

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	98		64-135
2037-26-5	Toluene-d8 (Surr)	106		71-118
460-00-4	4-Bromofluorobenzene (Surr)	91		70-118
1868-53-7	Dibromofluoromethane (Surr)	98		70-128

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20151007-8874.b\61007008.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 07-Oct-2015 15:36:30 ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCS
Misc. Info.: 180-0008874-008
Operator ID: 001562 Instrument ID: CHHP6

Method: \\ChromNA\Pittsburgh\ChromData\CHHP6\20151007-8874.b\MSVOA_LL_CHHP6.m
Limit Group: VOA 8260C ICAL
Last Update: 08-Oct-2015 09:01:50 Calib Date: 14-Sep-2015 16:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20150914-8521.b\60914006.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK015

First Level Reviewer: fergusond Date: 07-Oct-2015 15:59:33

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.254	4.245	0.009	95	207975	1000.0	1000.0	
* 2 Fluorobenzene (IS)	96	7.290	7.281	0.009	97	460649	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.398	10.396	0.002	89	105123	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.746	12.750	-0.004	95	187985	50.0	50.0	
$ 5 Dibromofluoromethane (Surr	113	6.554	6.551	0.003	94	104249	50.0	49.1	
$ 6 1,2-Dichloroethane-d4 (Sur	65	6.931	6.928	0.003	72	168195	50.0	49.1	
$ 7 Toluene-d8 (Surr)	98	8.944	8.942	0.002	93	441124	50.0	53.2	
$ 8 4-Bromofluorobenzene (Surr	95	11.585	11.588	-0.003	85	167135	50.0	45.4	
11 Dichlorodifluoromethane	85	1.602	1.605	-0.003	99	129230	50.0	40.5	
12 Chloromethane	50	1.766	1.757	0.009	100	155775	50.0	56.7	
13 Vinyl chloride	62	1.906	1.903	0.003	98	147577	50.0	49.8	
14 Butadiene	39	1.942	1.933	0.009	92	150149	50.0	54.1	
15 Bromomethane	94	2.246	2.232	0.014	91	64231	50.0	40.2	
16 Chloroethane	64	2.380	2.371	0.009	100	90694	50.0	44.9	
17 Dichlorofluoromethane	67	2.648	2.651	-0.003	98	194348	50.0	41.3	
18 Trichlorofluoromethane	101	2.697	2.694	0.003	82	144273	50.0	38.5	
20 Ethyl ether	59	3.049	3.047	0.002	93	135441	50.0	50.9	
21 Acrolein	56	3.226	3.211	0.015	99	41352	150.0	142.6	
22 1,1-Dichloroethene	96	3.354	3.339	0.015	95	99736	50.0	43.0	
23 1,1,2-Trichloro-1,2,2-trif	101	3.408	3.412	-0.004	93	105429	50.0	43.1	
24 Acetone	43	3.433	3.418	0.015	83	84913	100.0	104.2	
25 Iodomethane	142	3.542	3.533	0.009	98	142630	50.0	45.8	
26 Carbon disulfide	76	3.640	3.625	0.015	100	251688	50.0	41.9	
29 3-Chloro-1-propene	76	3.913	3.911	0.002	64	54916	50.0	42.0	
30 Methyl acetate	43	3.925	3.923	0.002	98	615462	250.0	322.1	
31 Methylene Chloride	84	4.126	4.124	0.002	97	142081	50.0	43.6	
32 2-Methyl-2-propanol	59	4.370	4.379	-0.009	91	105276	500.0	449.8	
33 Acrylonitrile	53	4.509	4.501	0.008	98	600580	500.0	623.4	
34 trans-1,2-Dichloroethene	96	4.564	4.568	-0.004	96	118687	50.0	44.4	
35 Methyl tert-butyl ether	73	4.576	4.574	0.002	97	359224	50.0	44.8	
36 Hexane	57	4.990	4.981	0.009	95	174035	50.0	48.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
37 1,1-Dichloroethane	63	5.203	5.188	0.015	96	229333	50.0	47.9	
38 Vinyl acetate	43	5.239	5.237	0.002	98	194379	50.0	50.3	
43 cis-1,2-Dichloroethene	96	5.939	5.936	0.003	86	130860	50.0	45.0	
42 2,2-Dichloropropane	77	5.939	5.942	-0.003	55	99976	50.0	41.3	
44 2-Butanone (MEK)	43	5.945	5.949	-0.004	99	133602	100.0	120.1	
48 Chlorobromomethane	128	6.231	6.222	0.009	93	58631	50.0	50.2	
49 Tetrahydrofuran	42	6.243	6.241	0.002	90	89962	100.0	120.1	
50 Chloroform	83	6.371	6.368	0.003	94	210851	50.0	44.3	
51 1,1,1-Trichloroethane	97	6.541	6.539	0.002	97	140896	50.0	40.1	
52 Cyclohexane	56	6.620	6.612	0.008	93	212823	50.0	47.3	
53 Carbon tetrachloride	117	6.718	6.709	0.009	73	109637	50.0	44.2	
54 1,1-Dichloropropene	75	6.724	6.727	-0.003	93	164565	50.0	43.6	
55 Isobutyl alcohol	41	6.900	6.904	-0.004	91	114725	1250.0	1721.4	
56 Benzene	78	6.943	6.940	0.003	98	534964	50.0	49.8	
57 1,2-Dichloroethane	62	7.022	7.013	0.009	98	198502	50.0	45.9	
59 n-Heptane	43	7.308	7.305	0.003	92	163105	50.0	55.9	
61 Trichloroethene	130	7.679	7.676	0.003	97	115940	50.0	51.8	
63 Methylcyclohexane	83	7.922	7.920	0.002	95	182020	50.0	40.1	
64 1,2-Dichloropropane	63	7.953	7.950	0.003	95	137045	50.0	53.4	
65 1,4-Dioxane	88	8.032	8.029	0.003	42	28170	1000.0	1112.7	M
67 Dibromomethane	93	8.038	8.035	0.003	96	75912	50.0	48.7	
68 Dichlorobromomethane	83	8.233	8.230	0.003	98	133922	50.0	45.8	
71 cis-1,3-Dichloropropene	75	8.677	8.674	0.003	92	154721	50.0	48.1	
72 4-Methyl-2-pentanone (MIBK	43	8.823	8.826	-0.003	97	224769	100.0	104.0	
73 Toluene	91	9.011	9.009	0.002	99	547322	50.0	50.5	
74 trans-1,3-Dichloropropene	75	9.255	9.252	0.003	97	123016	50.0	44.7	
75 Ethyl methacrylate	69	9.315	9.313	0.002	91	148169	50.0	50.7	
76 1,1,2-Trichloroethane	97	9.449	9.447	0.002	94	111096	50.0	49.5	
77 Tetrachloroethene	164	9.528	9.526	0.002	96	94317	50.0	51.0	
78 1,3-Dichloropropane	76	9.607	9.605	0.002	94	209517	50.0	50.6	
79 2-Hexanone	43	9.656	9.659	-0.003	97	146763	100.0	103.4	
81 Chlorodibromomethane	129	9.826	9.824	0.002	91	76501	50.0	50.0	
82 Ethylene Dibromide	107	9.942	9.939	0.003	97	101115	50.0	50.9	
83 3-Chlorobenzotrifluoride	180	10.392	10.390	0.002	94	184931	50.0	53.2	
84 Chlorobenzene	112	10.429	10.426	0.003	93	340436	50.0	51.1	
85 4-Chlorobenzotrifluoride	180	10.483	10.481	0.002	95	177029	50.0	55.0	
86 1,1,1,2-Tetrachloroethane	131	10.520	10.523	-0.003	89	93553	50.0	51.2	
87 Ethylbenzene	106	10.532	10.523	0.009	99	178585	50.0	47.5	
88 m-Xylene & p-Xylene	106	10.660	10.657	0.003	99	228220	50.0	48.9	
89 o-Xylene	106	11.043	11.040	0.003	97	216812	50.0	46.4	
90 Styrene	104	11.061	11.059	0.002	94	377775	50.0	52.7	
91 Bromoform	173	11.244	11.241	0.003	95	44087	50.0	53.9	
92 2-Chlorobenzotrifluoride	180	11.305	11.302	0.003	97	188213	50.0	52.9	
93 Isopropylbenzene	105	11.408	11.405	0.003	97	535650	50.0	47.9	
96 1,1,2,2-Tetrachloroethane	83	11.718	11.716	0.002	96	148539	50.0	49.5	
95 Bromobenzene	156	11.724	11.722	0.002	96	141550	50.0	46.8	
97 trans-1,4-Dichloro-2-buten	53	11.755	11.746	0.009	74	38617	50.0	40.3	
98 1,2,3-Trichloropropane	110	11.773	11.770	0.003	84	51684	50.0	45.0	
99 N-Propylbenzene	120	11.828	11.825	0.003	99	144602	50.0	41.5	
100 2-Chlorotoluene	126	11.913	11.910	0.003	94	130361	50.0	45.1	
101 3-Chlorotoluene	126	11.980	11.977	0.003	96	142665	50.0	47.0	
102 1,3,5-Trimethylbenzene	105	12.010	12.008	0.002	93	494712	50.0	43.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
103 4-Chlorotoluene	126	12.041	12.038	0.003	98	142782	50.0	46.8	
104 tert-Butylbenzene	119	12.327	12.324	0.003	92	353710	50.0	39.6	
106 1,2,4-Trimethylbenzene	105	12.388	12.385	0.003	98	496660	50.0	42.9	
107 1,2-dichloro-4-(trifluorom	214	12.424	12.421	0.003	98	162526	50.0	49.6	
108 sec-Butylbenzene	105	12.552	12.549	0.003	95	562992	50.0	42.2	
109 1,3-Dichlorobenzene	146	12.667	12.665	0.002	96	268293	50.0	45.4	
110 4-Isopropyltoluene	119	12.704	12.707	-0.003	96	455755	50.0	40.7	
111 1,4-Dichlorobenzene	146	12.771	12.774	-0.003	91	274629	50.0	45.5	
113 2,4-Dichloro-1-(triflourom	214	12.789	12.792	-0.003	97	168934	50.0	51.8	
114 2,5-Dichlorobenzotrifluori	214	12.832	12.835	-0.003	98	171258	50.0	47.0	
116 n-Butylbenzene	91	13.111	13.115	-0.004	98	428139	50.0	38.3	
117 1,2-Dichlorobenzene	146	13.124	13.127	-0.003	94	268244	50.0	45.0	
118 1,2-Dibromo-3-Chloropropan	75	13.914	13.918	-0.004	73	20803	50.0	38.1	
119 2,4- & 2,5- & 2,6- Dichlor	125	14.061	14.058	0.002	98	690413	150.0	133.1	
121 2,3- & 3,4- Dichlorotoluen	125	14.474	14.478	-0.004	98	496601	100.0	86.8	
122 1,2,4-Trichlorobenzene	180	14.742	14.739	0.003	93	197915	50.0	42.8	
123 Hexachlorobutadiene	225	14.888	14.891	-0.003	96	81509	50.0	44.8	
124 Naphthalene	128	15.010	15.007	0.003	98	425548	50.0	45.6	
125 1,2,3-Trichlorobenzene	180	15.229	15.232	-0.003	95	183890	50.0	42.5	
126 2,4,5-Trichlorotoluene	159	16.013	16.011	0.002	0	110429	50.0	38.1	
127 2,3,6-Trichlorotoluene	159	16.111	16.108	0.003	95	117029	50.0	42.5	
145 2,3-Dichlorotoluene	1		0.000				ND	ND	
144 2,4-Dichlorotoluene	1		0.000				ND	ND	
146 3,4-Dichlorotoluene	1		0.000				ND	ND	
147 2,6-Dichlorotoluene	1		0.000				ND	ND	
143 2,5-Dichlorotoluene	1		0.000				ND	ND	
S 131 Xylenes, Total	106				0		100.0	95.3	
S 130 1,2-Dichloroethene, Total	96				0		100.0	89.3	
S 132 1,3-Dichloropropene, Total	1				0		100.0	92.8	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

VOA8260VOA2ND_00146	Amount Added:	2.00	Units: uL	
voaWKetmix2nd_00002	Amount Added:	2.00	Units: uL	
voaWVA2nd Res_00010	Amount Added:	2.00	Units: uL	
voaWEEpri Res_00006	Amount Added:	2.00	Units: uL	
voaWAcro1stRe_00001	Amount Added:	6.00	Units: uL	
VOA8260INT_00042	Amount Added:	2.00	Units: uL	Run Reagent
VOA8260SURR_00042	Amount Added:	2.00	Units: uL	Run Reagent

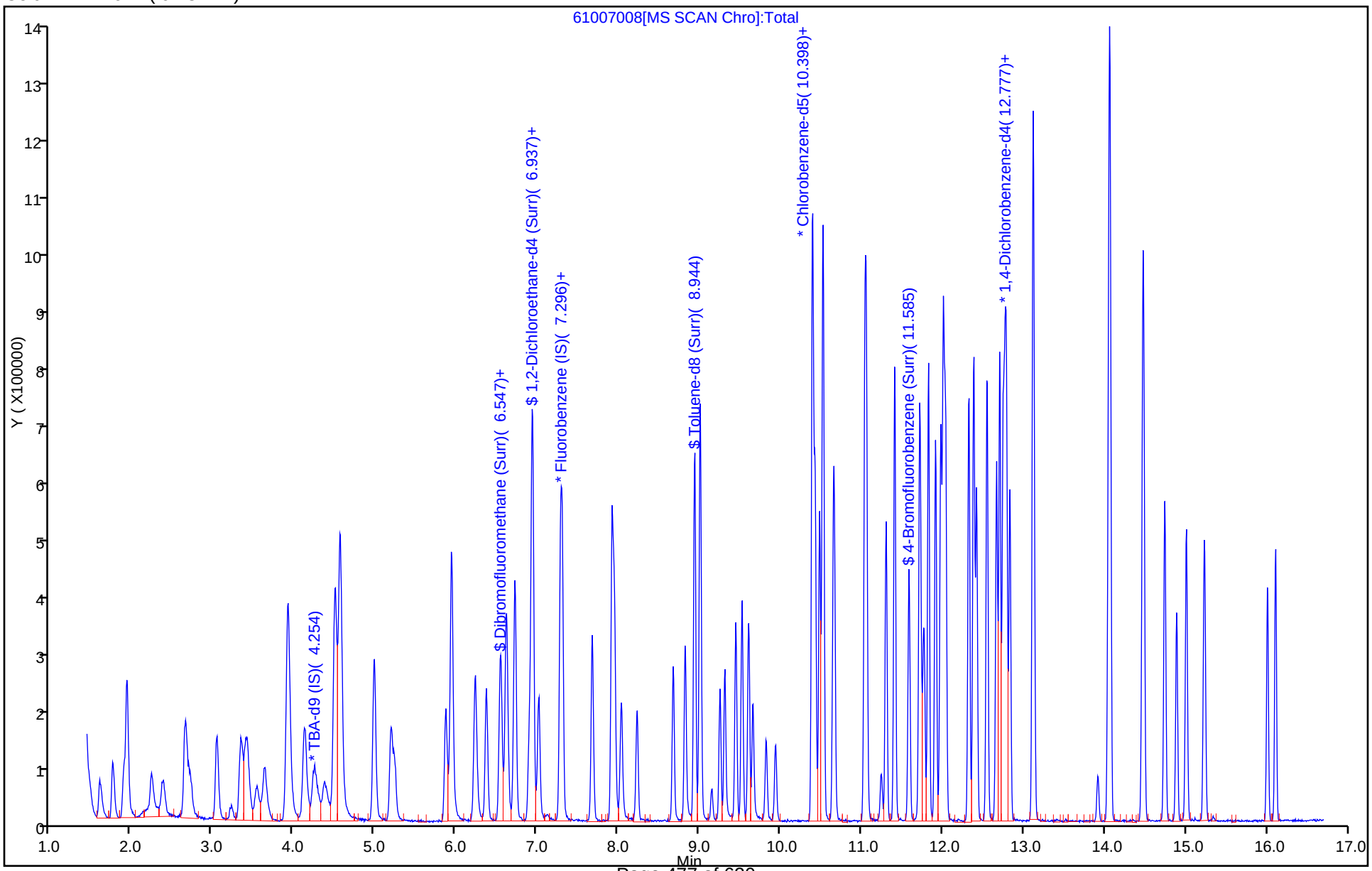
Report Date: 08-Oct-2015 10:05:19 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20151007-8874.b\61007008.D

Injection Date:	07-Oct-2015 15:36:30	Instrument ID:	CHHP6	Operator ID:	001562
Lims ID:	LCS			Worklist Smp#:	8
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	MSVOA_LL_CHHP6	Limit Group:	VOA 8260C ICAL		

Column: DB-624 (0.18 mm)



Manual Integration/User Assign Peak Report

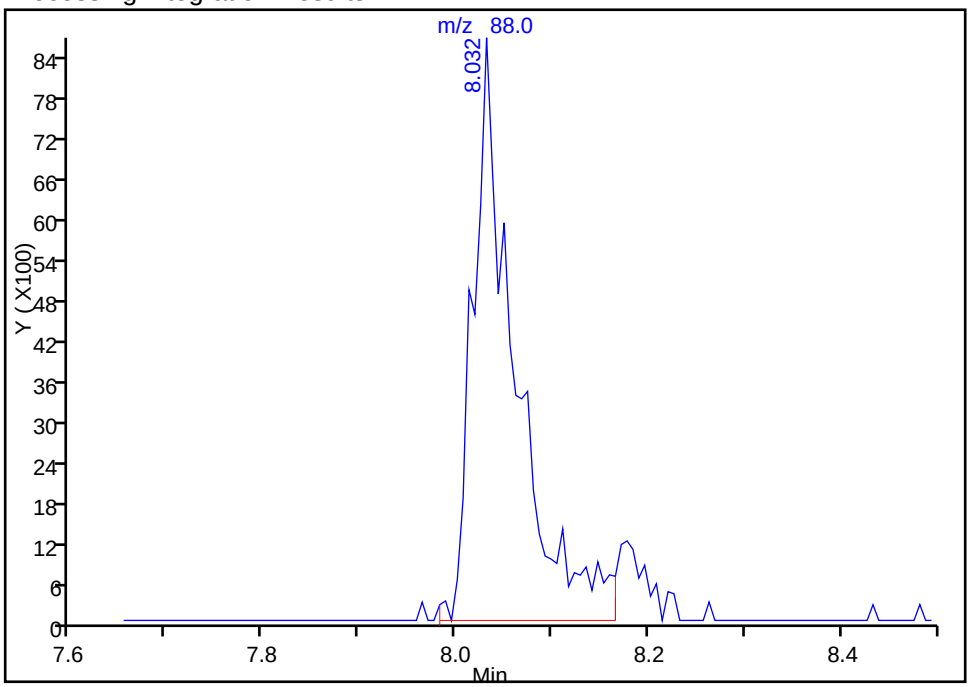
TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP6\20151007-8874.b\61007008.D
Injection Date: 07-Oct-2015 15:36:30 Instrument ID: CHHP6
Lims ID: LCS
Client ID:
Operator ID: 001562 ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVOA_LL_CHHP6 Limit Group: VOA 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

65 1,4-Dioxane, CAS: 123-91-1

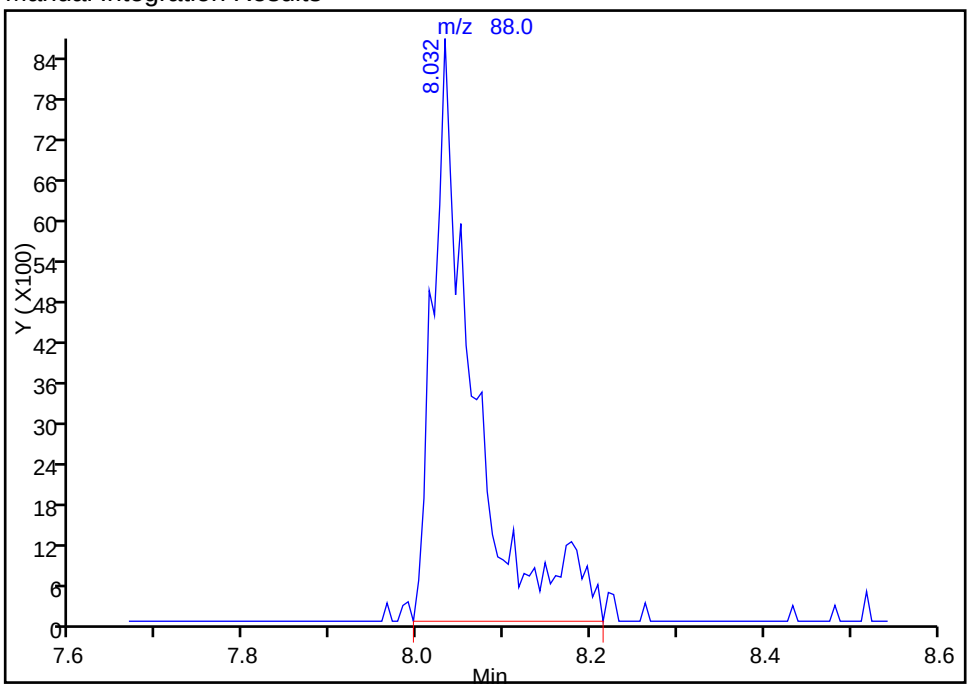
Processing Integration Results

RT: 8.03
Area: 26274
Amount: 1037.8501
Amount Units: ng



Manual Integration Results

RT: 8.03
Area: 28170
Amount: 1112.7441
Amount Units: ng



Reviewer: fergusond, 07-Oct-2015 15:59:33
Audit Action: Manually Integrated
Audit Reason: Incomplete Integration

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-48309-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 180-156309/9

Matrix: Water | Lab File ID: 51008009.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 10/08/2015 14:48

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 156309 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	9.02		1.0	0.28
75-01-4	Vinyl chloride	7.57		1.0	0.23
74-83-9	Bromomethane	8.60		1.0	0.31
75-00-3	Chloroethane	6.91		1.0	0.21
75-35-4	1,1-Dichloroethene	9.25		1.0	0.30
67-64-1	Acetone	20.6		5.0	2.5
75-15-0	Carbon disulfide	8.90		1.0	0.21
75-09-2	Methylene Chloride	9.77		1.0	0.13
156-60-5	trans-1,2-Dichloroethene	9.37		1.0	0.17
1634-04-4	Methyl tert-butyl ether	9.47		1.0	0.18
75-34-3	1,1-Dichloroethane	8.74		1.0	0.12
156-59-2	cis-1,2-Dichloroethene	9.22		1.0	0.24
74-97-5	Bromochloromethane	10.7		1.0	0.18
78-93-3	2-Butanone (MEK)	21.8		5.0	0.55
67-66-3	Chloroform	9.19		1.0	0.17
71-55-6	1,1,1-Trichloroethane	9.09		1.0	0.29
56-23-5	Carbon tetrachloride	9.75		1.0	0.14
71-43-2	Benzene	9.47		1.0	0.11
107-06-2	1,2-Dichloroethane	8.97		1.0	0.21
79-01-6	Trichloroethene	10.3		1.0	0.14
78-87-5	1,2-Dichloropropane	9.63		1.0	0.095
75-27-4	Bromodichloromethane	9.29		1.0	0.13
10061-01-5	cis-1,3-Dichloropropene	8.92		1.0	0.19
108-10-1	4-Methyl-2-pentanone (MIBK)	19.5		5.0	0.53
108-88-3	Toluene	10.0		1.0	0.15
10061-02-6	trans-1,3-Dichloropropene	8.85		1.0	0.15
79-00-5	1,1,2-Trichloroethane	10.1		1.0	0.20
127-18-4	Tetrachloroethene	10.7		1.0	0.15
591-78-6	2-Hexanone	18.9		5.0	0.16
124-48-1	Dibromochloromethane	10.7		1.0	0.14
106-93-4	1,2-Dibromoethane (EDB)	10.5		1.0	0.18
108-90-7	Chlorobenzene	10.4		1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	10.2		1.0	0.28
100-41-4	Ethylbenzene	10.2		1.0	0.23
1330-20-7	Xylenes, Total	21.0		3.0	0.49
100-42-5	Styrene	11.1		1.0	0.097

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-48309-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 180-156309/9

Matrix: Water | Lab File ID: 51008009.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 10/08/2015 14:48

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 156309 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-25-2	Bromoform	11.0		1.0	0.19
79-34-5	1,1,2,2-Tetrachloroethane	10.2		1.0	0.20
107-13-1	Acrylonitrile	102		20	0.55
123-91-1	1,4-Dioxane	258		200	34

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	90		64-135
2037-26-5	Toluene-d8 (Surr)	102		71-118
460-00-4	4-Bromofluorobenzene (Surr)	96		70-118
1868-53-7	Dibromofluoromethane (Surr)	103		70-128

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151008-8892.b\51008009.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 08-Oct-2015 14:48:30 ALS Bottle#: 8 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCS
Misc. Info.: 180-0008892-009
Operator ID: 001562 Instrument ID: CHHP5

Method: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151008-8892.b\MSVOA_LL_CHHP5.m
Limit Group: VOA 8260C ICAL
Last Update: 08-Oct-2015 15:18:29 Calib Date: 26-Aug-2015 17:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20150826-8300.b\50826014.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK015

First Level Reviewer: fergusond Date: 08-Oct-2015 15:18:27

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.279	4.269	0.010	0	127184	1000.0	1000.0	
* 2 Fluorobenzene (IS)	96	7.290	7.286	0.004	98	319307	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.386	10.389	-0.003	86	80373	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.728	12.731	-0.003	92	122270	50.0	50.0	
$ 5 Dibromofluoromethane (Surr	113	6.566	6.562	0.004	94	80389	50.0	51.3	
$ 6 1,2-Dichloroethane-d4 (Sur	65	6.937	6.934	0.003	0	96664	50.0	44.9	
$ 7 Toluene-d8 (Surr)	98	8.938	8.935	0.003	94	315631	50.0	50.9	
$ 8 4-Bromofluorobenzene (Surr	95	11.573	11.569	0.004	91	112300	50.0	48.0	
11 Dichlorodifluoromethane	85	1.608	1.598	0.010	98	95904	50.0	53.2	
12 Chloromethane	50	1.772	1.769	0.003	100	119403	50.0	45.1	
13 Vinyl chloride	62	1.906	1.909	-0.003	98	88961	50.0	37.9	
14 Butadiene	39	1.949	1.945	0.004	98	124477	50.0	44.9	
15 Bromomethane	94	2.277	2.255	0.022	89	41129	50.0	43.0	
16 Chloroethane	64	2.411	2.395	0.016	98	48974	50.0	34.6	
17 Dichlorofluoromethane	67	2.679	2.669	0.010	98	120074	50.0	39.9	
18 Trichlorofluoromethane	101	2.721	2.706	0.015	78	107135	50.0	47.6	
20 Ethyl ether	59	3.050	3.046	0.004	97	88642	50.0	42.5	
21 Acrolein	56	3.232	3.235	-0.003	99	40719	150.0	131.1	
22 1,1-Dichloroethene	96	3.354	3.338	0.016	95	82235	50.0	46.2	
23 1,1,2-Trichloro-1,2,2-trif	101	3.433	3.423	0.010	91	86471	50.0	45.9	
24 Acetone	43	3.451	3.448	0.003	99	66292	100.0	102.9	
25 Iodomethane	142	3.536	3.539	-0.003	98	139377	50.0	52.6	
26 Carbon disulfide	76	3.646	3.630	0.016	100	183739	50.0	44.5	
28 3-Chloro-1-propene	76	3.926	3.916	0.010	89	43309	50.0	43.0	
30 Methyl acetate	43	3.944	3.940	0.004	99	499003	250.0	259.2	
31 Methylene Chloride	84	4.139	4.135	0.004	97	102300	50.0	48.8	
32 2-Methyl-2-propanol	59	4.412	4.397	0.015	88	73687	500.0	514.8	
33 Acrylonitrile	53	4.522	4.525	-0.002	98	476310	500.0	509.9	
34 trans-1,2-Dichloroethene	96	4.571	4.561	0.010	96	90425	50.0	46.8	
35 Methyl tert-butyl ether	73	4.583	4.573	0.010	96	211589	50.0	47.3	
36 Hexane	57	4.990	4.987	0.003	96	153380	50.0	47.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
37 1,1-Dichloroethane	63	5.203	5.200	0.003	96	166139	50.0	43.7	
38 Vinyl acetate	43	5.252	5.255	-0.002	97	155951	50.0	54.6	
44 2,2-Dichloropropane	77	5.952	5.942	0.010	55	70519	50.0	46.3	
45 cis-1,2-Dichloroethene	96	5.952	5.954	-0.002	85	95096	50.0	46.1	
46 2-Butanone (MEK)	43	5.958	5.960	-0.002	73	105555	100.0	109.0	
49 Chlorobromomethane	128	6.237	6.234	0.003	96	48608	50.0	53.7	
51 Tetrahydrofuran	42	6.256	6.246	0.010	92	70960	100.0	91.4	
52 Chloroform	83	6.383	6.380	0.003	95	151005	50.0	45.9	
53 1,1,1-Trichloroethane	97	6.548	6.538	0.010	96	110491	50.0	45.5	
54 Cyclohexane	56	6.621	6.611	0.010	95	181762	50.0	44.7	
56 Carbon tetrachloride	117	6.718	6.715	0.003	97	100864	50.0	48.7	
55 1,1-Dichloropropene	75	6.730	6.733	-0.003	91	120181	50.0	44.7	
57 Isobutyl alcohol	41	6.931	6.927	0.004	90	88719	1250.0	1459.0	
58 Benzene	78	6.949	6.946	0.003	98	372856	50.0	47.4	
59 1,2-Dichloroethane	62	7.022	7.025	-0.003	96	122099	50.0	44.8	
62 n-Heptane	43	7.308	7.311	-0.003	97	141275	50.0	48.0	
64 Trichloroethene	130	7.679	7.676	0.003	95	98906	50.0	51.3	
66 Methylcyclohexane	83	7.916	7.913	0.003	96	140463	50.0	46.3	
67 1,2-Dichloropropane	63	7.953	7.949	0.004	95	99447	50.0	48.1	
70 1,4-Dioxane	88	8.026	8.029	-0.003	39	18402	1000.0	1292.0	
68 Dibromomethane	93	8.038	8.035	0.003	94	51204	50.0	48.8	
71 Dichlorobromomethane	83	8.233	8.235	-0.002	98	96331	50.0	46.4	
74 cis-1,3-Dichloropropene	75	8.677	8.673	0.004	91	108465	50.0	44.6	
75 4-Methyl-2-pentanone (MIBK	43	8.829	8.826	0.003	99	193299	100.0	97.6	
76 Toluene	91	9.005	9.002	0.003	99	399397	50.0	50.2	
77 trans-1,3-Dichloropropene	75	9.255	9.251	0.004	98	91926	50.0	44.3	
78 Ethyl methacrylate	69	9.310	9.312	-0.002	95	98986	50.0	49.3	
79 1,1,2-Trichloroethane	97	9.443	9.446	-0.003	91	76451	50.0	50.5	
80 Tetrachloroethene	164	9.516	9.519	-0.003	98	82334	50.0	53.3	
81 1,3-Dichloropropane	76	9.602	9.604	-0.002	99	134659	50.0	47.9	
82 2-Hexanone	43	9.656	9.659	-0.003	98	135324	100.0	94.7	
84 Chlorodibromomethane	129	9.815	9.811	0.003	90	70275	50.0	53.6	
85 Ethylene Dibromide	107	9.930	9.927	0.003	100	76817	50.0	52.7	
86 3-Chlorobenzotrifluoride	180	10.386	10.389	-0.003	87	146501	50.0	57.3	
87 Chlorobenzene	112	10.417	10.413	0.004	95	265403	50.0	51.8	
88 4-Chlorobenzotrifluoride	180	10.478	10.474	0.004	95	143616	50.0	59.4	
89 1,1,1,2-Tetrachloroethane	131	10.508	10.511	-0.003	90	85288	50.0	51.1	
90 Ethylbenzene	106	10.514	10.517	-0.003	98	138341	50.0	50.9	
91 m-Xylene & p-Xylene	106	10.648	10.644	0.004	0	174634	50.0	52.4	
92 o-Xylene	106	11.031	11.028	0.003	96	165948	50.0	52.4	
93 Styrene	104	11.049	11.046	0.003	96	289823	50.0	55.3	
94 Bromoform	173	11.232	11.235	-0.003	97	41258	50.0	55.2	
96 2-Chlorobenzotrifluoride	180	11.299	11.295	0.004	98	145867	50.0	58.0	
97 Isopropylbenzene	105	11.396	11.399	-0.003	96	420967	50.0	54.3	
99 1,1,2,2-Tetrachloroethane	83	11.706	11.709	-0.003	90	104369	50.0	51.1	
100 Bromobenzene	156	11.706	11.709	-0.003	93	110426	50.0	52.6	
102 trans-1,4-Dichloro-2-buten	53	11.743	11.746	-0.003	80	11774	50.0	15.5	
101 1,2,3-Trichloropropane	110	11.767	11.764	0.003	87	34504	50.0	49.8	
103 N-Propylbenzene	120	11.810	11.812	-0.002	99	117347	50.0	48.8	
104 2-Chlorotoluene	126	11.901	11.898	0.003	97	105773	50.0	51.8	
105 3-Chlorotoluene	126	11.968	11.965	0.003	94	112797	50.0	53.7	
106 1,3,5-Trimethylbenzene	105	11.998	11.995	0.003	95	353892	50.0	52.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
107 4-Chlorotoluene	126	12.023	12.019	0.004	97	119279	50.0	53.1	
108 tert-Butylbenzene	119	12.309	12.311	-0.002	94	282529	50.0	51.2	
110 1,2,4-Trimethylbenzene	105	12.370	12.366	0.004	98	350677	50.0	51.6	
111 1,2-dichloro-4-(trifluorom	214	12.412	12.415	-0.003	98	102275	50.0	53.9	
112 sec-Butylbenzene	105	12.534	12.530	0.004	94	404147	50.0	51.9	
113 1,3-Dichlorobenzene	146	12.649	12.646	0.003	99	209693	50.0	56.1	
114 4-Isopropyltoluene	119	12.686	12.689	-0.002	97	345537	50.0	52.4	
115 1,4-Dichlorobenzene	146	12.753	12.755	-0.002	97	215414	50.0	55.4	
116 2,4-Dichloro-1-(triflourom	214	12.777	12.780	-0.003	95	95114	50.0	54.1	
118 2,5-Dichlorobenzotrifluori	214	12.820	12.822	-0.002	0	100573	50.0	53.0	
120 n-Butylbenzene	91	13.100	13.096	0.004	97	266675	50.0	47.3	
121 1,2-Dichlorobenzene	146	13.112	13.108	0.004	98	189795	50.0	54.3	
122 1,2-Dibromo-3-Chloropropan	75	13.903	13.899	0.004	82	14671	50.0	51.2	
123 2,4- & 2,5- & 2,6- Dichlor	125	14.049	14.045	0.004	0	325582	150.0	163.2	
125 2,3- & 3,4- Dichlorotoluen	125	14.462	14.459	0.003	0	204451	100.0	107.5	
126 1,2,4-Trichlorobenzene	180	14.724	14.726	-0.002	93	72084	50.0	53.0	
127 Hexachlorobutadiene	225	14.870	14.872	-0.002	96	34685	50.0	53.0	
128 Naphthalene	128	14.992	14.988	0.004	97	196982	50.0	56.4	
129 1,2,3-Trichlorobenzene	180	15.217	15.213	0.004	95	56712	50.0	51.6	
131 2,4,5-Trichlorotoluene	159	15.989	15.992	-0.003	0	18123	50.0	45.7	
130 2,3,6-Trichlorotoluene	159	16.087	16.089	-0.002	94	17966	50.0	49.1	
149 3,4-Dichlorotoluene	1		0.000				ND	ND	
148 2,3-Dichlorotoluene	1		0.000				ND	ND	
147 2,4-Dichlorotoluene	1		0.000				ND	ND	
150 2,6-Dichlorotoluene	1		0.000				ND	ND	
146 2,5-Dichlorotoluene	1		0.000				ND	ND	
S 134 1,2-Dichloroethene, Total	96				0		100.0	92.9	
S 133 Xylenes, Total	106				0		100.0	104.9	
S 135 1,3-Dichloropropene, Total	1				0		100.0	88.9	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

VOA8260VOA2ND_00146	Amount Added:	2.00	Units: uL		
voaWKetmix2nd_00002	Amount Added:	2.00	Units: uL		
voaWVA2nd Res_00010	Amount Added:	2.00	Units: uL		
voaWEEpri Res_00006	Amount Added:	2.00	Units: uL		
voaWAcro1stRe_00001	Amount Added:	6.00	Units: uL		
VOA8260INT_00042	Amount Added:	2.00	Units: uL	Run Reagent	
VOA8260SURR_00042	Amount Added:	2.00	Units: uL	Run Reagent	

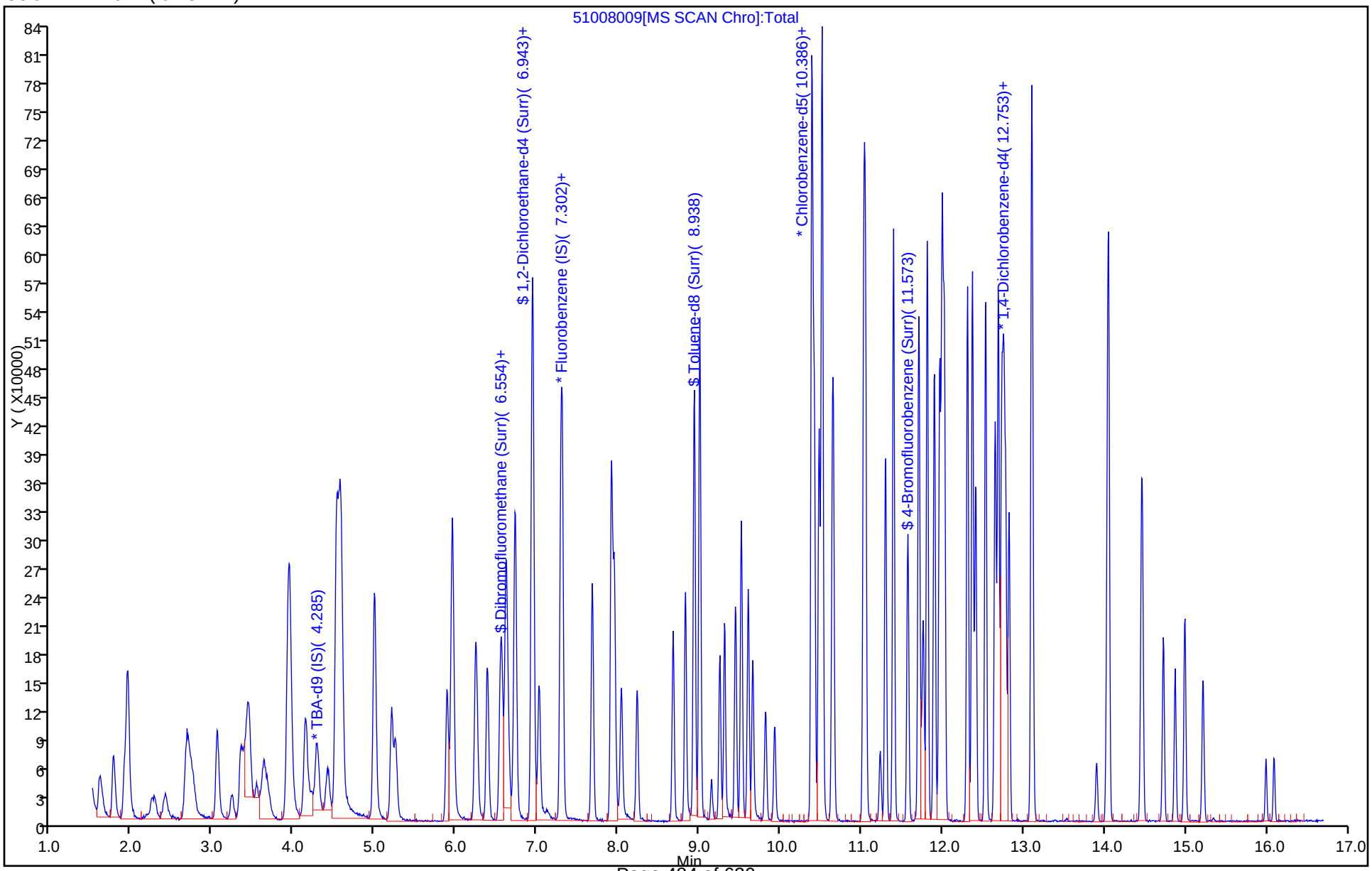
Report Date: 08-Oct-2015 15:18:32 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151008-8892.b\51008009.D

Injection Date:	08-Oct-2015 14:48:30	Instrument ID:	CHHP5	Operator ID:	001562
Lims ID:	LCS			Worklist Smp#:	9
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	MSVOA_LL_CHHP5	Limit Group:	VOA 8260C ICAL		

Column: DB-624 (0.18 mm)



GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Pittsburgh Job No.: 180-48309-1

SDG No.:

Instrument ID: CHHP6 Start Date: 07/31/2015 12:10

Analysis Batch Number: 149469 End Date: 07/31/2015 18:50

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 180-149469/1		07/31/2015 12:10	1	60731001.D	DB-624 0.18(mm)
IC 180-149469/4		07/31/2015 14:00	1	60731004.D	DB-624 0.18(mm)
ICIS 180-149469/5		07/31/2015 14:24	1	60731005.D	DB-624 0.18(mm)
IC 180-149469/6		07/31/2015 14:49	1	60731006.D	DB-624 0.18(mm)
IC 180-149469/7		07/31/2015 15:13	1	60731007.D	DB-624 0.18(mm)
IC 180-149469/8		07/31/2015 15:37	1	60731008.D	DB-624 0.18(mm)
IC 180-149469/9		07/31/2015 16:01	1	60731009.D	DB-624 0.18(mm)
IC 180-149469/10		07/31/2015 16:25	1	60731010.D	DB-624 0.18(mm)
IC 180-149469/14		07/31/2015 18:02	1	60731014.D	DB-624 0.18(mm)
ZZZZZ		07/31/2015 18:26	1		DB-624 0.18(mm)
ICV 180-149469/16		07/31/2015 18:50	1		DB-624 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Pittsburgh Job No.: 180-48309-1

SDG No.:

Instrument ID: CHHP5 Start Date: 08/26/2015 14:01

Analysis Batch Number: 151868 End Date: 08/26/2015 20:16

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 180-151868/7		08/26/2015 14:01	1	50826007.D	DB-624 0.18(mm)
IC 180-151868/6		08/26/2015 15:04	1	50826006.D	DB-624 0.18(mm)
IC 180-151868/8		08/26/2015 15:28	1	50826008.D	DB-624 0.18(mm)
ICIS 180-151868/9		08/26/2015 15:52	1	50826009.D	DB-624 0.18(mm)
IC 180-151868/10		08/26/2015 16:16	1	50826010.D	DB-624 0.18(mm)
IC 180-151868/11		08/26/2015 16:40	1	50826011.D	DB-624 0.18(mm)
IC 180-151868/12		08/26/2015 17:04	1	50826012.D	DB-624 0.18(mm)
IC 180-151868/13		08/26/2015 17:28	1	50826013.D	DB-624 0.18(mm)
IC 180-151868/14		08/26/2015 17:52	1	50826014.D	DB-624 0.18(mm)
ZZZZZ		08/26/2015 19:52	1		DB-624 0.18(mm)
ICV 180-151868/20		08/26/2015 20:16	1		DB-624 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Pittsburgh Job No.: 180-48309-1

SDG No.:

Instrument ID: CHHP6 Start Date: 10/07/2015 11:51

Analysis Batch Number: 156189 End Date: 10/07/2015 23:42

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 180-156189/4		10/07/2015 11:51	1	61007004.D	DB-624 0.18(mm)
CCVIS 180-156189/2		10/07/2015 12:51	1	61007002.D	DB-624 0.18(mm)
ZZZZZ		10/07/2015 13:33	1		DB-624 0.18(mm)
MB 180-156189/5		10/07/2015 14:07	1	61007005.D	DB-624 0.18(mm)
LCS 180-156189/8		10/07/2015 15:36	1	61007008.D	DB-624 0.18(mm)
ZZZZZ		10/07/2015 17:13	12.5		DB-624 0.18(mm)
180-48309-7	HD-QC12-0/1-2	10/07/2015 19:39	1	61007018.D	DB-624 0.18(mm)
180-48309-2	HD-MW-143S-0/1-0	10/07/2015 20:03	1	61007019.D	DB-624 0.18(mm)
180-48309-3	HD-MW-143D-0/1-0	10/07/2015 20:27	1	61007020.D	DB-624 0.18(mm)
180-48309-4	HD-MW-20M-0/1-0	10/07/2015 20:51	1	61007021.D	DB-624 0.18(mm)
180-48309-6 DL	HD-MW-64D-0/1-0 DL	10/07/2015 21:15	25	61007022.D	DB-624 0.18(mm)
180-48309-5	HD-MW-92-0/1-0	10/07/2015 23:42	1	61007028.D	DB-624 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Pittsburgh Job No.: 180-48309-1

SDG No.:

Instrument ID: CHHP5 Start Date: 10/08/2015 11:00

Analysis Batch Number: 156309 End Date: 10/08/2015 22:50

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 180-156309/4		10/08/2015 11:00	1	51008004.D	DB-624 0.18(mm)
CCVIS 180-156309/5		10/08/2015 12:33	1	51008005.D	DB-624 0.18(mm)
ZZZZZ		10/08/2015 12:57	1		DB-624 0.18(mm)
MB 180-156309/6		10/08/2015 13:21	1	51008006.D	DB-624 0.18(mm)
ZZZZZ		10/08/2015 14:00	1		DB-624 0.18(mm)
ZZZZZ		10/08/2015 14:24	1		DB-624 0.18(mm)
LCS 180-156309/9		10/08/2015 14:48	1	51008009.D	DB-624 0.18(mm)
ZZZZZ		10/08/2015 15:12	1		DB-624 0.18(mm)
ZZZZZ		10/08/2015 15:36	1		DB-624 0.18(mm)
180-48309-1	HD-MW-87-0/1-0	10/08/2015 16:24	12.5	51008013.D	DB-624 0.18(mm)
180-48309-5 DL	HD-MW-92-0/1-0 DL	10/08/2015 16:48	10	51008014.D	DB-624 0.18(mm)
ZZZZZ		10/08/2015 17:12	1		DB-624 0.18(mm)
ZZZZZ		10/08/2015 17:36	50		DB-624 0.18(mm)
ZZZZZ		10/08/2015 18:00	1		DB-624 0.18(mm)
ZZZZZ		10/08/2015 18:25	1		DB-624 0.18(mm)
ZZZZZ		10/08/2015 18:49	2		DB-624 0.18(mm)
ZZZZZ		10/08/2015 19:13	2		DB-624 0.18(mm)
ZZZZZ		10/08/2015 19:37	1		DB-624 0.18(mm)
ZZZZZ		10/08/2015 20:01	1		DB-624 0.18(mm)
ZZZZZ		10/08/2015 20:25	1		DB-624 0.18(mm)
ZZZZZ		10/08/2015 20:49	1		DB-624 0.18(mm)
ZZZZZ		10/08/2015 21:13	1		DB-624 0.18(mm)
ZZZZZ		10/08/2015 21:37	1		DB-624 0.18(mm)
ZZZZZ		10/08/2015 22:01	1		DB-624 0.18(mm)
ZZZZZ		10/08/2015 22:25	5		DB-624 0.18(mm)
180-48309-6	HD-MW-64D-0/1-0	10/08/2015 22:50	2.5	51008029.D	DB-624 0.18(mm)

Method 8270D Low Level

Semivolatile Organic Compounds (GC/MS) Low Level by Method 8270D

FORM II
GC/MS SEMI VOA SURROGATE RECOVERY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48309-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): Rxi-5SilMS ID: 0.32(mm)

Client Sample ID	Lab Sample ID	2FP #	PHL #	NBZ #	FBP #	TBP #	TPH #
HD-MW-87-0/1-0	180-48309-1	50	56	60	59	54	76
	MB 180-156027/1-A	64	64	62	60	58	71
	LCS 180-156027/2-A	67	67	68	66	73	78

	QC LIMITS
2FP = 2-Fluorophenol (Surr)	20-105
PHL = Phenol-d5 (Surr)	25-105
NBZ = Nitrobenzene-d5 (Surr)	27-114
FBP = 2-Fluorobiphenyl	28-109
TBP = 2,4,6-Tribromophenol (Surr)	30-118
TPH = Terphenyl-d14 (Surr)	20-118

Column to be used to flag recovery values

FORM II 8270D LL

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48309-1

SDG No.:

Matrix: Water Level: Low Lab File ID: V1009006.D

Lab ID: LCS 180-156027/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,4-Dioxane	20.0	14.4	72	36-100	

Column to be used to flag recovery and RPD values

FORM III 8270D LL

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48309-1

SDG No.:

Lab File ID: V1009004.D Lab Sample ID: MB 180-156027/1-A

Matrix: Water Date Extracted: 10/06/2015 10:44

Instrument ID: CH731 Date Analyzed: 10/09/2015 09:46

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 180-156027/2-A	V1009006.D	10/09/2015 10:42
HD-MW-87-0/1-0	180-48309-1	V1011025.D	10/11/2015 19:44

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Pittsburgh Job No.: 180-48309-1

SDG No.:

Lab File ID: V0901002.D DFTPP Injection Date: 08/31/2015

Instrument ID: CH731 DFTPP Injection Time: 13:24

Analysis Batch No.: 152241

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30.0 - 60.0 % of mass 198	40.2	
68	Less than 2.0 % of mass 69	0.2	(0.6) 1
69	Mass 69 relative abundance	43.8	
70	Less than 2.0 % of mass 69	0.0	(0.0) 1
127	40.0 - 60.0 % of mass 198	48.1	
197	Less than 1.0 % of mass 198	0.0	
198	Base Peak, 100 % relative abundance	100.0	
199	5.0- 9.0 % of mass 198	7.4	
275	10.0 - 30.0 % of mass 198	21.1	
365	Greater than 1.0 % of mass 198	2.4	
441	Present but less than mass 443	7.3	(67.7) 3
442	Greater than 40.0 % of mass 198	55.1	
443	17.0 - 23.0 % of mass 442	10.9	(19.7) 2

1-Value is % mass 69 2-Value is % mass 442 3-Value is % mass 443

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 180-152241/3	V0901003.D	08/31/2015	13:40
	IC 180-152241/4	V0901004.D	08/31/2015	14:08
	IC 180-152241/5	V0901005.D	08/31/2015	14:36
	ICIS 180-152241/6	V0901006.D	08/31/2015	15:03
	IC 180-152241/7	V0901007.D	08/31/2015	15:31
	IC 180-152241/8	V0901008.D	08/31/2015	15:59
	IC 180-152241/9	V0901009.D	08/31/2015	16:27
	IC 180-152241/10	V0901010.D	08/31/2015	16:55

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Pittsburgh Job No.: 180-48309-1

SDG No.:

Lab File ID: V1009002.D DFTPP Injection Date: 10/09/2015

Instrument ID: CH731 DFTPP Injection Time: 09:01

Analysis Batch No.: 156466

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30.0 - 60.0 % of mass 198	39.5	
68	Less than 2.0 % of mass 69	0.0	(0.0) 1
69	Mass 69 relative abundance	42.4	
70	Less than 2.0 % of mass 69	0.1	(0.3) 1
127	40.0 - 60.0 % of mass 198	47.0	
197	Less than 1.0 % of mass 198	0.3	
198	Base Peak, 100 % relative abundance	100.0	
199	5.0- 9.0 % of mass 198	6.7	
275	10.0 - 30.0 % of mass 198	22.7	
365	Greater than 1.0 % of mass 198	2.7	
441	Present but less than mass 443	8.7	(78.1) 3
442	Greater than 40.0 % of mass 198	60.8	
443	17.0 - 23.0 % of mass 442	11.1	(18.2) 2

1-Value is % mass 69 2-Value is % mass 442 3-Value is % mass 443

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 180-156466/3	V1009003.D	10/09/2015	09:18
	MB 180-156027/1-A	V1009004.D	10/09/2015	09:46
	LCS 180-156027/2-A	V1009006.D	10/09/2015	10:42

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Pittsburgh Job No.: 180-48309-1

SDG No.:

Lab File ID: V1011002.D DFTPP Injection Date: 10/11/2015

Instrument ID: CH731 DFTPP Injection Time: 09:16

Analysis Batch No.: 156605

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30.0 - 60.0 % of mass 198	36.3	
68	Less than 2.0 % of mass 69	0.3	(0.6) 1
69	Mass 69 relative abundance	41.0	
70	Less than 2.0 % of mass 69	0.2	(0.5) 1
127	40.0 - 60.0 % of mass 198	44.1	
197	Less than 1.0 % of mass 198	0.0	
198	Base Peak, 100 % relative abundance	100.0	
199	5.0- 9.0 % of mass 198	5.9	
275	10.0 - 30.0 % of mass 198	22.8	
365	Greater than 1.0 % of mass 198	2.8	
441	Present but less than mass 443	8.4	(68.0) 3
442	Greater than 40.0 % of mass 198	62.3	
443	17.0 - 23.0 % of mass 442	12.4	(19.8) 2

1-Value is % mass 69 2-Value is % mass 442 3-Value is % mass 443

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 180-156605/3	V1011003.D	10/11/2015	09:33
HD-MW-87-0/1-0	180-48309-1	V1011025.D	10/11/2015	19:44

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48309-1

SDG No.:

Sample No.: CCVIS 180-156466/3 Date Analyzed: 10/09/2015 09:18

Instrument ID: CH731 GC Column: Rxi-5SilMS ID: 0.32(mm)

Lab File ID (Standard): V1009003.D Heated Purge: (Y/N) N

Calibration ID: 25150

		DCB		NPT		ANT	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		197119	6.31	804831	7.54	505326	9.18
UPPER LIMIT		394238	6.81	1609662	8.04	1010652	9.68
LOWER LIMIT		98560	5.81	402416	7.04	252663	8.68
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 180-156027/1-A		182230	6.31	765778	7.54	506044	9.18
LCS 180-156027/2-A		171890	6.31	731792	7.54	500334	9.18

DCB = 1,4-Dichlorobenzene-d4
NPT = Naphthalene-d8
ANT = Acenaphthene-d10

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8270D LL

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48309-1

SDG No.:

Sample No.: CCVIS 180-156466/3 Date Analyzed: 10/09/2015 09:18

Instrument ID: CH731 GC Column: Rxi-5SilMS ID: 0.32(mm)

Lab File ID (Standard): V1009003.D Heated Purge: (Y/N) N

Calibration ID: 25150

		PHN		CRY		PRY	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		951658	10.57	864459	14.18	713136	17.17
UPPER LIMIT		1903316	11.07	1728918	14.68	1426272	17.67
LOWER LIMIT		475829	10.07	432230	13.68	356568	16.67
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 180-156027/1-A		955168	10.56	873334	14.18	675530	17.16
LCS 180-156027/2-A		961061	10.57	853355	14.18	704595	17.15

PHN = Phenanthrene-d10
CRY = Chrysene-d12
PRY = Perylene-d12

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8270D LL

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48309-1

SDG No.:

Sample No.: CCVIS 180-156605/3 Date Analyzed: 10/11/2015 09:33

Instrument ID: CH731 GC Column: Rxi-5SilMS ID: 0.32(mm)

Lab File ID (Standard): V1011003.D Heated Purge: (Y/N) N

Calibration ID: 25150

		DCB		NPT		ANT	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		135067	6.30	531363	7.53	333175	9.16
UPPER LIMIT		270134	6.80	1062726	8.03	666350	9.66
LOWER LIMIT		67534	5.80	265682	7.03	166588	8.66
LAB SAMPLE ID	CLIENT SAMPLE ID						
180-48309-1	HD-MW-87-0/1-0	130340	6.29	511594	7.50	306260	9.14

DCB = 1,4-Dichlorobenzene-d4
NPT = Naphthalene-d8
ANT = Acenaphthene-d10

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8270D LL

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48309-1

SDG No.:

Sample No.: CCVIS 180-156605/3 Date Analyzed: 10/11/2015 09:33

Instrument ID: CH731 GC Column: Rxi-5SilMS ID: 0.32(mm)

Lab File ID (Standard): V1011003.D Heated Purge: (Y/N) N

Calibration ID: 25150

		PHN		CRY		PRY	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		643030	10.54	744112	14.13	716576	17.10
UPPER LIMIT		1286060	11.04	1488224	14.63	1433152	17.60
LOWER LIMIT		321515	10.04	372056	13.63	358288	16.60
LAB SAMPLE ID	CLIENT SAMPLE ID						
180-48309-1	HD-MW-87-0/1-0	535167	10.52	631344	14.09	687574	17.05

PHN = Phenanthrene-d10
CRY = Chrysene-d12
PRY = Perylene-d12

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8270D LL

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-48309-1

SDG No.:

Client Sample ID: HD-MW-87-0/1-0 | Lab Sample ID: 180-48309-1

Matrix: Water | Lab File ID: V1011025.D

Analysis Method: 8270D LL | Date Collected: 09/30/2015 10:37

Extract. Method: 3520C | Date Extracted: 10/06/2015 10:46

Sample wt/vol: 270(mL) | Date Analyzed: 10/11/2015 19:44

Con. Extract Vol.: 0.25(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 156605 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	9.7		1.9	0.049

CAS NO.	SURROGATE	%REC	Q	LIMITS
321-60-8	2-Fluorobiphenyl	59		28-109
367-12-4	2-Fluorophenol (Surr)	50		20-105
118-79-6	2,4,6-Tribromophenol (Surr)	54		30-118
4165-60-0	Nitrobenzene-d5 (Surr)	60		27-114
4165-62-2	Phenol-d5 (Surr)	56		25-105
1718-51-0	Terphenyl-d14 (Surr)	76		20-118

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CH731\20151011-8939.b\V1011025.D
Lims ID: 180-48309-A-1-A Lab Sample ID: 180-48309-1
Client ID: HD-MW-87-0/1-0
Sample Type: Client
Inject. Date: 11-Oct-2015 19:44:30 ALS Bottle#: 24 Worklist Smp#: 25
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 180-0008939-025
Operator ID: 003200 Instrument ID: CH731

Method: \\ChromNA\Pittsburgh\ChromData\CH731\20151011-8939.b\BNA_CH731.m
Limit Group: BNA 8270D ICAL
Last Update: 12-Oct-2015 06:37:50 Calib Date: 01-Sep-2015 07:35:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CH731\20150901-8368.b\V0901N11.D

Column 1 : Rxi-5SilMS (0.32 mm) Det: MS SCAN
Process Host: XAWRK051

First Level Reviewer: piccolinov Date: 12-Oct-2015 06:35:54

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.286	6.301	-0.015	94	130340	8.00	
* 2 Naphthalene-d8	136	7.504	7.525	-0.021	100	511594	8.00	
* 3 Acenaphthene-d10	164	9.138	9.159	-0.021	91	306260	8.00	
* 4 Phenanthrene-d10	188	10.517	10.543	-0.026	97	535167	8.00	
* 5 Chrysene-d12	240	14.085	14.128	-0.043	96	631344	8.00	
* 6 Perylene-d12	264	17.045	17.103	-0.058	99	687574	8.00	
$ 7 2-Fluorophenol	112	4.918	4.912	0.006	93	387359	20.2	
$ 8 Phenol-d5	99	5.933	5.938	-0.005	94	558117	22.3	
$ 9 Nitrobenzene-d5	82	6.820	6.830	-0.010	91	592870	23.8	
$ 10 2-Fluorobiphenyl	172	8.497	8.513	-0.016	100	1252011	23.4	
$ 11 2,4,6-Tribromophenol	330	9.865	9.886	-0.021	92	159538	21.5	
$ 12 Terphenyl-d14	244	12.312	12.343	-0.031	99	1823136	30.4	
13 1,4-Dioxane	88	1.547	1.526	0.021	92	139184	21.0	

Reagents:

SVTAPITINTRNi_00009 Amount Added: 1.00 Units: uL Run Reagent

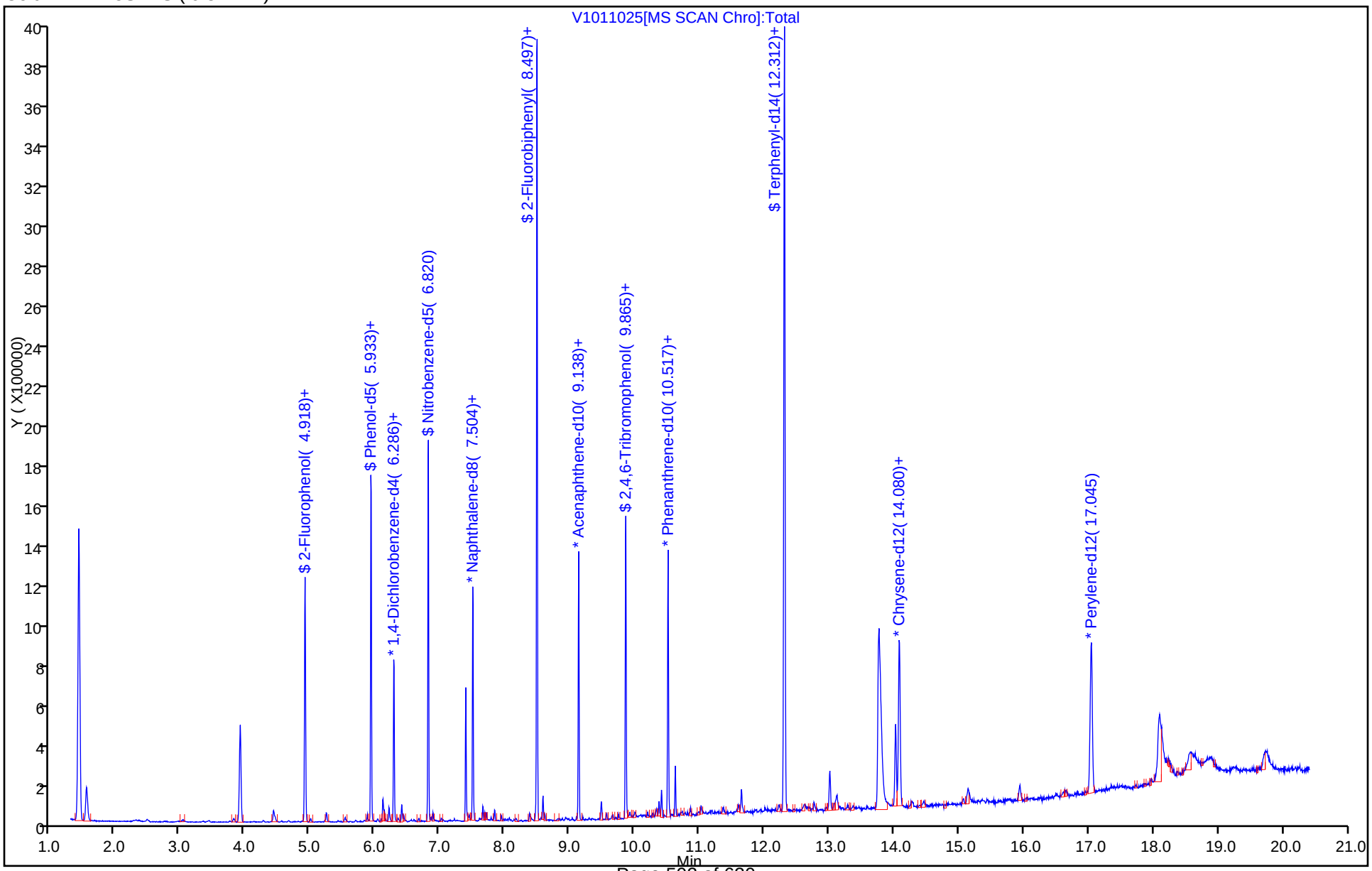
Report Date: 12-Oct-2015 06:38:46 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CH731\20151011-8939.b\V1011025.D

Injection Date:	11-Oct-2015 19:44:30	Instrument ID:	CH731	Operator ID:	003200
Lims ID:	180-48309-A-1-A	Lab Sample ID:	180-48309-1	Worklist Smp#:	25
Client ID:	HD-MW-87-0/1-0				
Injection Vol:	2.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	24
Method:	BNA_CH731	Limit Group:	BNA 8270D ICAL		

Column: Rxi-5SilMS (0.32 mm)



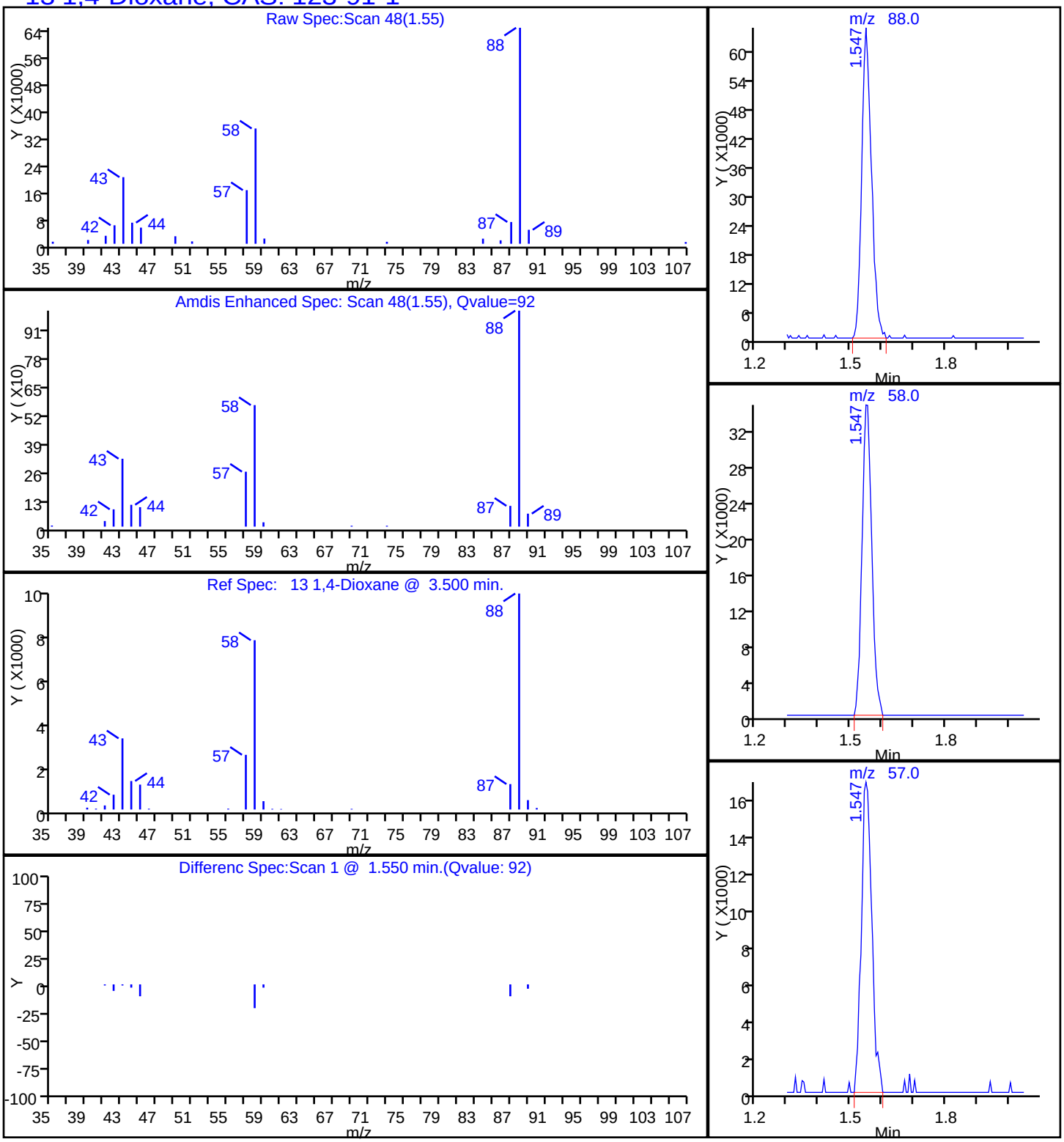
Report Date: 12-Oct-2015 06:38:46 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CH731\20151011-8939.b\V1011025.D

Injection Date:	11-Oct-2015 19:44:30	Instrument ID:	CH731		
Lims ID:	180-48309-A-1-A	Lab Sample ID:	180-48309-1		
Client ID:	HD-MW-87-0/1-0				
Operator ID:	003200	ALS Bottle#:	24	Worklist Smp#:	25
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	BNA_CH731	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

13 1,4-Dioxane, CAS: 123-91-1



FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Pittsburgh Job No.: 180-48309-1 Analy Batch No.: 152241

SDG No.:

Instrument ID: CH731 GC Column: Rxi-5SilMS ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/31/2015 13:40 Calibration End Date: 08/31/2015 16:55 Calibration ID: 25150

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-152241/3	V0901003.D
Level 2	IC 180-152241/4	V0901004.D
Level 3	IC 180-152241/5	V0901005.D
Level 4	ICIS 180-152241/6	V0901006.D
Level 5	IC 180-152241/7	V0901007.D
Level 6	IC 180-152241/8	V0901008.D
Level 7	IC 180-152241/9	V0901009.D
Level 8	IC 180-152241/10	V0901010.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
1,4-Dioxane	0.4441 0.3874	0.4103 0.3736	0.4322 0.3619	0.4341	0.4042	Ave		0.4059			0.0100	7.4		20.0			
N-Nitrosodimethylamine	0.4416 0.5304	0.5038 0.5080	0.5354 0.4938	0.5555	0.5565	Ave		0.5156			0.0100	7.3		20.0			
Pyridine	0.7823 0.9872	0.9768 0.9522	1.0624 0.9098	1.0393	1.0097	Ave		0.9650			0.0100	9.1		20.0			
Methyl methanesulfonate	0.6579 0.6602	0.6713 0.6349	0.7053 0.6125	0.7390	0.6901	Ave		0.6714			0.0100	6.0		20.0			
Benzaldehyde	0.8726 0.7638	0.8392 0.7323	0.8430 0.7015	0.8384	0.7940	Ave		0.7981			0.0100	7.6		20.0			
Phenol	1.7514 1.6077	1.7539 1.5404	1.8219 1.4618	1.8017	1.6952	Ave		1.6792			0.8000	7.7		20.0			
Aniline	1.8895 1.8491	1.9457 1.7710	1.9934 1.6943	2.0563	1.9512	Ave		1.8938			0.0100	6.3		20.0			
Bis(2-chloroethyl)ether	1.1720 1.1364	1.1751 1.0883	1.2743 1.0419	1.2341	1.1685	Ave		1.1613			0.7000	6.4		20.0			
2-Chlorophenol	1.4473 1.4131	1.3955 1.3360	1.5303 1.3059	1.5104	1.4395	Ave		1.4222			0.8000	5.5		20.0			
n-Decane	1.4081 1.3056	1.3570 1.2489	1.5049 1.1893	1.4477	1.3992	Ave		1.3576				7.7		20.0			
1,3-Dichlorobenzene	1.7278 1.6024	1.5915 1.5632	1.7184 1.5147	1.7074	1.6413	Ave		1.6333			0.0100	4.8		20.0			
1,4-Dichlorobenzene	1.6666 1.6429	1.7104 1.6057	1.7639 1.5625	1.7729	1.6609	Ave		1.6732			0.0100	4.4		20.0			
Benzyl alcohol	0.8304 0.8421	0.8396 0.8171	0.9252 0.7863	0.9081	0.8672	Ave		0.8520			0.0100	5.4		20.0			
1,2-Dichlorobenzene	1.6286 1.5823	1.5840 1.5087	1.7134 1.4839	1.6984	1.6035	Ave		1.6004			0.0100	5.1		20.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Pittsburgh Job No.: 180-48309-1 Analy Batch No.: 152241

SDG No.:

Instrument ID: CH731 GC Column: Rxi-5SilMS ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/31/2015 13:40 Calibration End Date: 08/31/2015 16:55 Calibration ID: 25150

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
2-Methylphenol	1.2179 1.1972	1.3115 1.1425	1.3595 1.0895	1.3263	1.2529	Ave		1.2372			0.7000	7.6		20.0			
Indene	2.5089 2.3365	2.3830 2.2463	2.5496 2.1711	2.5450	2.4289	Ave		2.3962			0.0100	5.8		20.0			
2,2'-oxybis[1-chloropropane]	1.8377 1.5879	1.8001 1.5289	1.8343 1.4497	1.8567	1.7179	Ave		1.7016			0.0100	9.3		20.0			
N-Nitrosopyrrolidine	0.6535 0.5501	0.5406 0.5356	0.5590 0.5246	0.5890	0.5657	Ave		0.5648			0.0100	7.3		20.0			
Acetophenone	2.0757 1.7446	1.9699 1.6761	2.0876 1.5866	2.0251	1.8603	Ave		1.8782			0.0100	10.2		20.0			
N-Nitrosodi-n-propylamine	0.9562 0.8487	0.9832 0.8020	1.0103 0.7534	0.9879	0.9281	Ave		0.9087			0.5000	10.5		20.0			
Methylphenol, 3 & 4	1.4675 1.2377	1.3160 1.1683	1.3940 1.1242	1.4135	1.3087	Ave		1.3037			0.6000	9.3		20.0			
Hexachloroethane	0.7578 0.7167	0.7372 0.6940	0.7482 0.6768	0.7584	0.7450	Ave		0.7293			0.3000	4.2		20.0			
Nitrobenzene	0.3854 0.3623	0.4008 0.3499	0.4127 0.3409	0.3986	0.3923	Ave		0.3804			0.2000	6.9		20.0			
Isophorone	0.6276 0.5956	0.6530 0.5835	0.6582 0.5712	0.6464	0.6568	Ave		0.6240			0.4000	5.7		20.0			
2-Nitrophenol	0.1589 0.1959	0.2026 0.1915	0.1923 0.1890	0.2008	0.2025	Ave		0.1917			0.1000	7.4		20.0			
2,4-Dimethylphenol	0.3838 0.3512	0.3833 0.3418	0.3982 0.3325	0.3944	0.3877	Ave		0.3716			0.2000	6.9		20.0			
Benzoic acid	+++++ 0.1752	+++++ 0.1950	0.0736 0.1783	0.1047	0.1585	Lin1	-0.579	0.1914			0.0100				0.9950		0.9900
Bis(2-chloroethoxy)methane	0.4014 0.3592	0.3823 0.3494	0.3900 0.3436	0.3928	0.3931	Ave		0.3765			0.3000	5.9		20.0			
2,4-Dichlorophenol	0.2955 0.3112	0.3229 0.3099	0.3366 0.3072	0.3310	0.3336	Ave		0.3185			0.2000	4.6		20.0			
1,2,4-Trichlorobenzene	0.4065 0.3704	0.3860 0.3639	0.4065 0.3588	0.3908	0.3873	Ave		0.3838			0.0100	4.7		20.0			
Naphthalene	1.1634 1.0343	1.1272 1.0183	1.1301 1.0010	1.1248	1.1161	Ave		1.0894			0.7000	5.6		20.0			
4-Chloroaniline	0.4399 0.4316	0.4512 0.4348	0.4667 0.4274	0.4762	0.4682	Ave		0.4495			0.0100	4.2		20.0			
2,6-Dichlorophenol	0.3103 0.3101	0.3312 0.3041	0.3311 0.3005	0.3366	0.3301	Ave		0.3193			0.0100	4.5		20.0			
Hexachlorobutadiene	0.2350 0.2327	0.2479 0.2381	0.2594 0.2357	0.2559	0.2580	Ave		0.2453			0.0100	4.6		20.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Pittsburgh Job No.: 180-48309-1 Analy Batch No.: 152241

SDG No.:

Instrument ID: CH731 GC Column: Rxi-5SilMS ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/31/2015 13:40 Calibration End Date: 08/31/2015 16:55 Calibration ID: 25150

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Caprolactam	0.1034 0.0914	0.0914 0.0988	0.0899 0.0987	0.0951	0.0981	Ave		0.0958			0.0100	4.9		20.0			
4-Chloro-3-methylphenol	0.3029 0.3022	0.3278 0.3075	0.3276 0.3015	0.3294	0.3316	Ave		0.3163			0.2000	4.4		20.0			
2-Methylnaphthalene	0.7982 0.7423	0.8127 0.7328	0.8169 0.7191	0.7932	0.7864	Ave		0.7752			0.4000	4.9		20.0			
1-Methylnaphthalene	0.7129 0.6461	0.7093 0.6444	0.7284 0.6345	0.6860	0.6856	Ave		0.6809			0.0100	5.2		20.0			
Hexachlorocyclopentadiene	0.3465 0.4544	0.4122 0.4460	0.4334 0.4387	0.4560	0.4568	Ave		0.4305			0.0500	8.6		20.0			
1,2,4,5-Tetrachlorobenzene	0.6706 0.6138	0.6663 0.5919	0.6720 0.5747	0.6604	0.6370	Ave		0.6358			0.0100	6.0		20.0			
2,4,6-Trichlorophenol	0.3754 0.3958	0.3861 0.3865	0.4149 0.3906	0.4122	0.4033	Ave		0.3956			0.2000	3.5		20.0			
2,4,5-Trichlorophenol	0.3667 0.4154	0.4088 0.4133	0.4266 0.4099	0.4342	0.4444	Ave		0.4149			0.2000	5.6		20.0			
1,1'-Biphenyl	1.6038 1.4963	1.5568 1.4399	1.6378 1.4274	1.6230	1.5703	Ave		1.5444			0.0100	5.3		20.0			
2-Chloronaphthalene	1.2873 1.1611	1.2521 1.1302	1.3017 1.0964	1.2551	1.2202	Ave		1.2130			0.8000	6.2		20.0			
2-Nitroaniline	0.3021 0.3455	0.3369 0.3402	0.3591 0.3313	0.3697	0.3586	Ave		0.3429			0.0100	6.1		20.0			
Dimethyl phthalate	1.3607 1.2496	1.2693 1.2446	1.3540 1.2342	1.3226	1.3141	Ave		1.2937			0.0100	3.9		20.0			
1,3-Dinitrobenzene	+++++ 0.2121	0.1703 0.2184	0.1978 0.2177	0.2068	0.2178	Ave		0.2058			0.0100	8.4		20.0			
2,6-Dinitrotoluene	0.2544 0.2962	0.2785 0.2981	0.3090 0.2995	0.3062	0.3088	Ave		0.2938			0.2000	6.4		20.0			
Acenaphthylene	1.9221 1.8056	1.9107 1.7601	1.9154 1.7332	1.9435	1.9115	Ave		1.8628			0.9000	4.4		20.0			
3-Nitroaniline	0.2596 0.3148	0.2987 0.3253	0.3262 0.3213	0.3332	0.3376	Ave		0.3146			0.0100	8.0		20.0			
Acenaphthene	1.2321 1.1141	1.2206 1.0718	1.2787 1.0459	1.2611	1.2157	Ave		1.1800			0.9000	7.6		20.0			
2,4-Dinitrophenol	+++++ 0.2011	0.0914 0.2174	0.1283 0.2225	0.1680	0.1883	Lin2	-0.515	0.2090			0.0100				0.9940		0.9900
4-Nitrophenol	0.1724 0.2147	0.1987 0.2218	0.2090 0.2194	0.2198	0.2264	Ave		0.2103			0.0100	8.3		20.0			
2,4-Dinitrotoluene	0.3055 0.4096	0.3763 0.4160	0.3916 0.4200	0.4145	0.4235	Ave		0.3946			0.2000	10.0		20.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Pittsburgh Job No.: 180-48309-1 Analy Batch No.: 152241

SDG No.:

Instrument ID: CH731 GC Column: Rxi-5SilMS ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/31/2015 13:40 Calibration End Date: 08/31/2015 16:55 Calibration ID: 25150

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Dibenzofuran	1.7928 1.6843	1.8049 1.6681	1.8515 1.6273	1.8266	1.8030	Ave		1.7573			0.8000	4.8		20.0			
2,3,5,6-Tetrachlorophenol	0.2947 0.3986	0.3569 0.4044	0.3773 0.4115	0.3838	0.4065	Ave		0.3792			0.0100	10.2		20.0			
2,3,4,6-Tetrachlorophenol	0.3388 0.3973	0.3667 0.4036	0.3850 0.4000	0.4018	0.4111	Ave		0.3880			0.0100	6.2		20.0			
2-Naphthylamine	1.1676 1.1381	1.2415 1.1505	1.2361 1.1228	1.2669	1.2522	Ave		1.1970			0.0100	4.8		20.0			
Diethyl phthalate	1.5099 1.2723	1.3987 1.2540	1.3938 1.2345	1.3922	1.3765	Ave		1.3540			0.0100	6.9		20.0			
Hexadecane	0.5394 0.4798	0.5762 0.4585	0.5773 0.4309	0.5738	0.5606	Ave		0.5246				11.3		20.0			
4-Chlorophenyl phenyl ether	0.7554 0.7149	0.7027 0.7070	0.7303 0.7034	0.7533	0.7428	Ave		0.7262			0.4000	3.1		20.0			
4-Nitroaniline	0.2838 0.3335	0.3260 0.3393	0.3359 0.3408	0.3489	0.3530	Ave		0.3326			0.0100	6.5		20.0			
Fluorene	1.4219 1.3705	1.4989 1.3566	1.5164 1.3410	1.5171	1.4935	Ave		1.4395			0.9000	5.3		20.0			
4,6-Dinitro-2-methylphenol	0.1054 0.1514	0.1244 0.1531	0.1162 0.1544	0.1382	0.1480	Ave		0.1364			0.0100	13.8		20.0			
N-Nitrosodiphenylamine	0.5870 0.5344	0.5842 0.5108	0.5791 0.5023	0.5781	0.5664	Ave		0.5553			0.0100	6.2		20.0			
1,2-Diphenylhydrazine(as Azobenzene)	0.7624 0.7195	0.8134 0.6675	0.8043 0.6433	0.8113	0.7819	Ave		0.7505			0.0100	8.9		20.0			
4-Bromophenyl phenyl ether	0.1964 0.2305	0.2294 0.2206	0.2319 0.2178	0.2365	0.2357	Ave		0.2248			0.1000	5.9		20.0			
Hexachlorobenzene	0.2391 0.2495	0.2325 0.2442	0.2465 0.2434	0.2472	0.2556	Ave		0.2447			0.1000	2.8		20.0			
Atrazine	0.1822 0.2249	0.2068 0.2185	0.2267 0.2150	0.2353	0.2351	Ave		0.2181			0.0100	8.0		20.0			
Pentachlorophenol	0.2103 0.1664	0.1771 0.1665	0.1387 0.1661	0.1516	0.1640	Ave		0.1676			0.0500	12.4		20.0			
n-Octadecane	2.3521 2.1757	2.4613 2.0608	2.4940 1.8822	2.5316	2.4392	Ave		2.2996				10.2		20.0			
Phenanthrene	1.2891 1.1546	1.2878 1.1187	1.2856 1.1036	1.2539	1.2534	Ave		1.2183			0.7000	6.5		20.0			
Anthracene	1.2301 1.1759	1.2487 1.1358	1.2775 1.1248	1.2766	1.2552	Ave		1.2156			0.7000	5.1		20.0			
Carbazole	1.0530 1.0541	1.0771 1.0190	1.1275 1.0014	1.1174	1.1110	Ave		1.0701			0.0100	4.3		20.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Pittsburgh Job No.: 180-48309-1 Analy Batch No.: 152241

SDG No.:

Instrument ID: CH731 GC Column: Rxi-5SilMS ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/31/2015 13:40 Calibration End Date: 08/31/2015 16:55 Calibration ID: 25150

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Di-n-butyl phthalate	1.1278 1.2358	1.2054 1.2132	1.2628 1.1940	1.2971	1.3049	Ave		1.2301			0.0100	4.7		20.0			
Fluoranthene	1.2846 1.3087	1.2354 1.2858	1.3319 1.2675	1.3499	1.3415	Ave		1.3007			0.6000	3.0		20.0			
Benzidine	0.4370 0.5402	0.4253 0.5568	0.4608 0.5462	0.5353	0.5425	Ave		0.5055			0.0100	10.8		20.0			
Pyrene	1.2464 1.1686	1.2921 1.1330	1.3084 1.0869	1.3295	1.2929	Ave		1.2322			0.6000	7.4		20.0			
Butyl benzyl phthalate	0.4773 0.5019	0.4757 0.4860	0.4985 0.4664	0.5293	0.5298	Ave		0.4956			0.0100	4.8		20.0			
3,3'-Dichlorobenzidine	0.4146 0.4592	0.4126 0.4499	0.4142 0.4425	0.4277	0.4656	Ave		0.4358			0.0100	4.9		20.0			
Bis(2-ethylhexyl) phthalate	0.6159 0.7086	0.6648 0.6777	0.7032 0.6456	0.7363	0.7405	Ave		0.6866			0.0100	6.4		20.0			
Benzo[a]anthracene	1.1868 1.1339	1.1898 1.1161	1.2099 1.0904	1.2140	1.1955	Ave		1.1671			0.8000	4.0		20.0			
Chrysene	1.0944 1.0853	1.1004 1.0526	1.1394 1.0249	1.1377	1.1082	Ave		1.0929			0.7000	3.6		20.0			
Di-n-octyl phthalate	1.5986 1.2457	1.3781 1.2059	1.1720 1.1722	1.2657	1.2914	Ave		1.2912			0.0100	11.0		20.0			
7,12-Dimethylbenz(a)anthracene	0.4894 0.5495	0.5316 0.5322	0.5396 0.5300	0.5719	0.5650	Ave		0.5386			0.0100	4.7		20.0			
Benzo[b]fluoranthene	1.1982 1.2459	1.2244 1.1722	1.2837 1.2129	1.2956	1.2813	Ave		1.2393			0.7000	3.6		20.0			
Benzo[k]fluoranthene	1.2019 1.2251	1.2294 1.1922	1.3048 1.1298	1.3208	1.3032	Ave		1.2384			0.7000	5.4		20.0			
Benzo[e]pyrene	1.1093 1.1622	1.1431 1.1253	1.1852 1.0963	1.2032	1.2090	Ave		1.1542			0.0100	3.7		20.0			
Benzo[a]pyrene	1.0947 1.2113	1.1764 1.1651	1.1980 1.1415	1.2304	1.2187	Ave		1.1795			0.7000	3.8		20.0			
Indeno[1,2,3-cd]pyrene	1.2251 1.3822	1.3397 1.3292	1.3494 1.3191	1.4107	1.4279	Ave		1.3479			0.5000	4.7		20.0			
Dibenz(a,h)anthracene	1.0181 1.1823	1.1211 1.1487	1.1369 1.1357	1.1749	1.2120	Ave		1.1412			0.4000	5.1		20.0			
Benzo[g,h,i]perylene	1.1389 1.1809	1.1421 1.1626	1.1885 1.1557	1.1999	1.2203	Ave		1.1736			0.5000	2.5		20.0			
2-Fluorophenol (Surr)	1.2489 1.1564	1.2030 1.1208	1.1963 1.0862	1.2288	1.1838	Ave		1.1780				4.6		20.0			
Phenol-d5 (Surr)	1.5979 1.4953	1.5500 1.4311	1.6299 1.3716	1.6576	1.5700	Ave		1.5379				6.4		20.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Pittsburgh Job No.: 180-48309-1 Analy Batch No.: 152241

SDG No.:

Instrument ID: CH731 GC Column: Rxi-5SilMS ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/31/2015 13:40 Calibration End Date: 08/31/2015 16:55 Calibration ID: 25150

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Nitrobenzene-d5 (Surr)	0.3878 0.3705	0.4020 0.3655	0.4168 0.3615	0.4084	0.4009	Ave		0.3892				5.4		20.0			
2-Fluorobiphenyl	1.4732 1.3539	1.4246 1.3137	1.4562 1.2890	1.4552	1.4151	Ave		1.3976				5.0		20.0			
2,4,6-Tribromophenol (Surr)	0.1022 0.1198	0.0949 0.1219	0.1021 0.1183	0.1085	0.1193	Ave		0.1109			0.0100	9.3		20.0			
Terphenyl-d14 (Surr)	0.7142 0.7564	0.7747 0.7352	0.7862 0.7093	0.7962	0.8057	Ave		0.7597				4.9		20.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Pittsburgh Job No.: 180-48309-1 Analy Batch No.: 152241

SDG No.:

Instrument ID: CH731 GC Column: Rxi-5SilMS ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/31/2015 13:40 Calibration End Date: 08/31/2015 16:55 Calibration ID: 25150

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-152241/3	V0901003.D
Level 2	IC 180-152241/4	V0901004.D
Level 3	IC 180-152241/5	V0901005.D
Level 4	ICIS 180-152241/6	V0901006.D
Level 5	IC 180-152241/7	V0901007.D
Level 6	IC 180-152241/8	V0901008.D
Level 7	IC 180-152241/9	V0901009.D
Level 8	IC 180-152241/10	V0901010.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
1,4-Dioxane	DCB	Ave	2513 201364	11101 279408	22493 356294	55565	105203	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
N-Nitrosodimethylamine	DCB	Ave	2499 275725	13632 379885	27865 486190	71109	144862	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Pyridine	DCB	Ave	4427 513191	26429 712099	55292 895807	133039	262838	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Methyl methanesulfonate	DCB	Ave	3723 343206	18162 474822	36708 603096	94603	179632	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Benzaldehyde	DCB	Ave	4938 397070	22705 547639	43874 690724	107323	206688	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Phenol	DCB	Ave	9911 835757	47455 1151982	94817 1439322	230637	441274	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Aniline	DCB	Ave	10692 961258	52643 1324460	103745 1668289	263241	507890	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Bis(2-chloroethyl)ether	DCB	Ave	6632 590760	31795 813920	66318 1025923	157984	304156	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
2-Chlorophenol	DCB	Ave	8190 734589	37759 999145	79641 1285834	193353	374694	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
n-Decane	DCB	Ave	7968 678691	36716 933974	78321 1170998	185321	364217	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
1,3-Dichlorobenzene	DCB	Ave	9777 833025	43060 1169034	89430 1491482	218573	427222	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
1,4-Dichlorobenzene	DCB	Ave	9431 854038	46277 1200818	91801 1538522	226954	432346	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Benzyl alcohol	DCB	Ave	4699 437762	22716 611039	48151 774191	116255	225733	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
1,2-Dichlorobenzene	DCB	Ave	9216 822563	42858 1128307	89174 1461140	217421	417384	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
2-Methylphenol	DCB	Ave	6892 622346	35486 854410	70753 1072808	169780	326132	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Pittsburgh Job No.: 180-48309-1 Analy Batch No.: 152241

SDG No.:

Instrument ID: CH731 GC Column: Rxi-5SilMS ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/31/2015 13:40 Calibration End Date: 08/31/2015 16:55 Calibration ID: 25150

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Indene	DCB	Ave	14197 1214617	64475 1679927	132693 2137786	325789	632252	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
2,2'-oxybis[1-chloropropane]	DCB	Ave	10399 825469	48704 1143395	95463 1427446	237680	447186	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
N-Nitrosopyrrolidine	DCB	Ave	3698 285945	14628 400584	29094 516581	75398	147255	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Acetophenone	DCB	Ave	11746 906914	53299 1253461	108645 1562211	259244	484244	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
N-Nitrosodi-n-propylamine	DCB	Ave	5411 441214	26603 599779	52581 741815	126465	241584	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Methylphenol, 3 & 4	DCB	Ave	8304 643394	35608 873748	72549 1106901	180950	340648	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Hexachloroethane	DCB	Ave	4288 372580	19947 519024	38937 666391	97090	193936	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Nitrobenzene	NPT	Ave	9006 776952	43310 1066255	87150 1349192	211409	407395	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Isophorone	NPT	Ave	14666 1277258	70568 1778003	138999 2260645	342824	682023	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
2-Nitrophenol	NPT	Ave	3712 420234	21894 583637	40619 748083	106487	210297	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
2,4-Dimethylphenol	NPT	Ave	8968 753151	41418 1041480	84102 1315779	209203	402567	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Benzoic acid	NPT	Lin1	+++++ 375654	+++++ 594277	15551 705621	55532	164640	+++++ 40.0	+++++ 60.0	4.00 80.0	10.0	20.0
Bis(2-chloroethoxy)methane	NPT	Ave	9380 770276	41308 1064713	82356 1360002	208359	408194	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
2,4-Dichlorophenol	NPT	Ave	6905 667300	34899 944141	71088 1215699	175582	346426	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
1,2,4-Trichlorobenzene	NPT	Ave	9499 794260	41709 1108717	85855 1419941	207252	402160	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Naphthalene	NPT	Ave	27184 2218172	121813 3102774	238651 3961496	596566	1159009	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
4-Chloroaniline	NPT	Ave	10278 925530	48762 1324788	98566 1691471	252553	486250	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
2,6-Dichlorophenol	NPT	Ave	7251 665137	35789 926626	69925 1189347	178546	342783	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Hexachlorobutadiene	NPT	Ave	5492 498986	26793 725569	54777 932690	135720	267889	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Caprolactam	NPT	Ave	2415 195994	9876 300973	18977 390460	50427	101850	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
4-Chloro-3-methylphenol	NPT	Ave	7078 648108	35420 936942	69183 1193205	174727	344404	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Pittsburgh Job No.: 180-48309-1 Analy Batch No.: 152241

SDG No.:

Instrument ID: CH731 GC Column: Rxi-5SilMS ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/31/2015 13:40 Calibration End Date: 08/31/2015 16:55 Calibration ID: 25150

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
2-Methylnaphthalene	NPT	Ave	18652 1592038	87821 2232756	172507 2845722	420716	816700	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
1-Methylnaphthalene	NPT	Ave	16658 1385626	76649 1963496	153822 2510891	363823	711948	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Hexachlorocyclopentadiene	ANT	Ave	4913 608183	28210 886261	56673 1135006	149399	302691	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
1,2,4,5-Tetrachlorobenzene	ANT	Ave	9508 821465	45600 1176134	87870 1486780	216369	422134	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
2,4,6-Trichlorophenol	ANT	Ave	5323 529802	26423 767943	54244 1010572	135055	267261	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
2,4,5-Trichlorophenol	ANT	Ave	5199 556002	27979 821214	55772 1060563	142254	294500	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
1,1'-Biphenyl	ANT	Ave	22740 2002667	106547 2860874	214141 3692898	531753	1040543	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
2-Chloronaphthalene	ANT	Ave	18252 1554017	85690 2245596	170202 2836533	411214	808559	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
2-Nitroaniline	ANT	Ave	4283 462376	23054 675895	46947 856991	121138	237605	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Dimethyl phthalate	ANT	Ave	19292 1672530	86872 2472869	177042 3193164	433347	870830	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
1,3-Dinitrobenzene	ANT	Ave	+++++ 283925	11653 433868	25857 563184	67750	144305	+++++ 40.0	2.00 60.0	4.00 80.0	10.0	20.0
2,6-Dinitrotoluene	ANT	Ave	3607 396407	19061 592384	40402 774781	100319	204627	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Acenaphthylene	ANT	Ave	27253 2416661	130763 3497114	250435 4484129	636764	1266666	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
3-Nitroaniline	ANT	Ave	3681 421304	20444 646266	42653 831142	109177	223742	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Acenaphthene	ANT	Ave	17469 1491106	83539 2129611	167192 2705975	413191	805607	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
2,4-Dinitrophenol	ANT	Lin2	+++++ 538395	12511 863873	33546 1151263	110082	249612	+++++ 80.0	4.00 120	8.00 160	20.0	40.0
4-Nitrophenol	ANT	Ave	4889 574831	27200 881491	54652 1135055	144007	300056	0.800 80.0	4.00 120	8.00 160	20.0	40.0
2,4-Dinitrotoluene	ANT	Ave	4331 548279	25755 826591	51206 1086532	135793	280619	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Dibenzofuran	ANT	Ave	25419 2254271	123527 3314307	242079 4210142	598462	1194756	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
2,3,5,6-Tetrachlorophenol	ANT	Ave	4178 533477	24428 803463	49331 1064721	125764	269363	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
2,3,4,6-Tetrachlorophenol	ANT	Ave	4803 531770	25094 801901	50343 1034946	131643	272412	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Pittsburgh Job No.: 180-48309-1 Analy Batch No.: 152241

SDG No.:

Instrument ID: CH731 GC Column: Rxi-5SilMS ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/31/2015 13:40 Calibration End Date: 08/31/2015 16:55 Calibration ID: 25150

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
2-Naphthylamine	ANT	Ave	16555 1523242	84965 2285872	161622 2904871	415085	829799	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Diethyl phthalate	ANT	Ave	21408 1702838	95724 2491639	182244 3193948	456132	912137	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Hexadecane	NPT	Ave	12604 1028978	62263 1397088	121910 1705323	304348	582121	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
4-Chlorophenyl phenyl ether	ANT	Ave	10711 956781	48092 1404700	95483 1819749	246798	492206	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
4-Nitroaniline	ANT	Ave	4024 446405	22310 674066	43917 881666	114302	233917	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Fluorene	ANT	Ave	20161 1834343	102583 2695516	198272 3469462	497068	989672	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
4,6-Dinitro-2-methylphenol	PHN	Ave	5441 755388	30508 1188730	55789 1577783	165565	365342	0.800 80.0	4.00 120	8.00 160	20.0	40.0
N-Nitrosodiphenylamine	PHN	Ave	30291 2666058	143210 3965267	278021 5134418	692525	1398657	0.800 80.0	4.00 120	8.00 160	20.0	40.0
1,2-Diphenylhydrazine(as Azobenzene)	PHN	Ave	19671 1794860	99702 2591039	193083 3287555	485927	965418	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
4-Bromophenyl phenyl ether	PHN	Ave	5068 574987	28113 856180	55667 1113159	141647	291000	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Hexachlorobenzene	PHN	Ave	6169 622415	28493 947897	59184 1244142	148037	315515	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Atrazine	PHN	Ave	4701 561004	25353 848278	54428 1098657	140905	290220	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Pentachlorophenol	PHN	Ave	10851 829971	43404 1292579	66577 1697903	181579	404974	0.800 80.0	4.00 120	8.00 160	20.0	40.0
n-Octadecane	DCB	Ave	13310 1131057	66596 1541202	129797 1853282	324076	634923	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Phenanthrene	PHN	Ave	33259 2880228	157847 4342458	308622 5640236	751020	1547520	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Anthracene	PHN	Ave	31738 2933520	153060 4408878	306661 5748524	764639	1549689	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Carbazole	PHN	Ave	27168 2629503	132022 3955502	270667 5117901	669248	1371651	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Di-n-butyl phthalate	PHN	Ave	29099 3082799	147747 4709352	303130 6102278	776911	1611079	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Fluoranthene	PHN	Ave	33144 3264797	151430 4990877	319725 6477904	808503	1656336	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Benzidine	CRY	Ave	11290 1562314	52731 2535078	118831 3407934	339390	725455	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Pyrene	CRY	Ave	32201 3379936	160209 5158428	337422 6781286	842830	1728923	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Pittsburgh Job No.: 180-48309-1 Analy Batch No.: 152241

SDG No.:

Instrument ID: CH731 GC Column: Rxi-5SilMS ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/31/2015 13:40 Calibration End Date: 08/31/2015 16:55 Calibration ID: 25150

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Butyl benzyl phthalate	CRY	Ave	12332 1451542	58980 2212652	128551 2909727	335533	708523	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
3,3'-Dichlorobenzidine	CRY	Ave	10712 1328092	51162 2048467	106814 2760473	271127	622565	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Bis(2-ethylhexyl) phthalate	CRY	Ave	15912 2049564	82430 3085719	181356 4027626	466768	990284	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Benzo[a]anthracene	CRY	Ave	30661 3279613	147520 5081417	312044 6802828	769643	1598686	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Chrysene	CRY	Ave	28274 3138949	136440 4792327	293847 6394304	721253	1481921	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Di-n-octyl phthalate	PRY	Ave	38875 3629195	161544 5602751	278022 7419754	761128	1669687	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
7,12-Dimethylbenz(a)anthracene	PRY	Ave	11900 1601028	62316 2472560	127997 3354970	343910	730487	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Benzo[b]fluoranthene	PRY	Ave	29136 3629886	143518 5446463	304513 7677405	779148	1656570	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Benzo[k]fluoranthene	PRY	Ave	29227 3569072	144106 5539285	309524 7151269	794316	1684888	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Benzo[e]pyrene	PRY	Ave	26976 3386071	133992 5228496	281151 6938914	723563	1563201	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Benzo[a]pyrene	PRY	Ave	26620 3529029	137893 5413285	284194 7225435	739933	1575640	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Indeno[1,2,3-cd]pyrene	PRY	Ave	29792 4026833	157033 6175786	320102 8349705	848365	1846211	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Dibenz(a,h)anthracene	PRY	Ave	24757 3444565	131409 5337190	269706 7188461	706557	1567050	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Benzo[g,h,i]perylene	PRY	Ave	27696 3440452	133873 5401597	281951 7315071	721609	1577795	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
2-Fluorophenol (Surr)	DCB	Ave	7067 601129	32550 838231	62258 1069551	157305	308134	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Phenol-d5 (Surr)	DCB	Ave	9042 777332	41939 1070228	84827 1350534	212190	408662	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Nitrobenzene-d5 (Surr)	NPT	Ave	9061 794610	43441 1113656	88028 1430717	216601	416340	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
2-Fluorobiphenyl	ANT	Ave	20887 1812070	97501 2610251	190403 3334934	476787	937705	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
2,4,6-Tribromophenol (Surr)	PHN	Ave	2636 298800	11634 473316	24511 604617	64980	147244	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Terphenyl-d14 (Surr)	CRY	Ave	18450 2187918	96061 3347581	202747 4425141	504747	1077468	0.400 40.0	2.00 60.0	4.00 80.0	10.0	20.0

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Pittsburgh Job No.: 180-48309-1 Analy Batch No.: 152241

SDG No.:

Instrument ID: CH731 GC Column: Rxi-5SilMS ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/31/2015 13:40 Calibration End Date: 08/31/2015 16:55 Calibration ID: 25150

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD
Lin2 = Linear 1/conc^2 ISTD

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: TestAmerica Pittsburgh Job No.: 180-48309-1 Analy Batch No.: 152241

SDG No.:

Instrument ID: CH731 GC Column: Rxi-5SilMS ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/31/2015 13:40 Calibration End Date: 08/31/2015 16:55 Calibration ID: 25150

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-152241/3	V0901003.D
Level 2	IC 180-152241/4	V0901004.D
Level 3	IC 180-152241/5	V0901005.D
Level 4	ICIS 180-152241/6	V0901006.D
Level 5	IC 180-152241/7	V0901007.D
Level 6	IC 180-152241/8	V0901008.D
Level 7	IC 180-152241/9	V0901009.D
Level 8	IC 180-152241/10	V0901010.D

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3	LVL 4	LVL 5	LVL 6
Benzoic acid	+++++ 6.9	+++++ -3.1	14.1	-15.0	-2.0	-0.9	40	40	40	40	40	40
2,4-Dinitrophenol	+++++ 6.1	5.4 8.0	-7.8	-7.3	-3.7	-0.7	40	40 40	40	40	40	40

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CH731\20150831-8349.b\V0901003.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 31-Aug-2015 13:40:30 ALS Bottle#: 2 Worklist Smp#: 3
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 180-0008349-003
Operator ID: 003200 Instrument ID: CH731
Sublist: chrom-BNA_CH731*sub4

Method: \\ChromNA\Pittsburgh\ChromData\CH731\20150831-8349.b\BNA_CH731.m
Limit Group: BNA 8270D ICAL
Last Update: 01-Sep-2015 04:26:25 Calib Date: 31-Aug-2015 16:55:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CH731\20150831-8349.b\V0901010.D

Column 1 : Rxi-5SilMS (0.32 mm) Det: MS SCAN
Process Host: XAWRK024

First Level Reviewer: piccolinov Date: 01-Sep-2015 04:09:03

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.256	6.256	0.000	94	113175	8.00	8.00	
* 2 Naphthalene-d8	136	7.490	7.490	0.000	100	467332	8.00	8.00	
* 3 Acenaphthene-d10	164	9.130	9.130	0.000	93	283569	8.00	8.00	
* 4 Phenanthrene-d10	188	10.509	10.509	0.000	98	516017	8.00	8.00	
* 5 Chrysene-d12	240	14.072	14.072	0.000	97	516686	8.00	8.00	
* 6 Perylene-d12	264	17.031	17.031	0.000	97	486349	8.00	8.00	
$ 7 2-Fluorophenol	112	4.851	4.851	0.000	88	7067	0.4000	0.4241	
$ 8 Phenol-d5	99	5.893	5.893	0.000	94	9042	0.4000	0.4156	
$ 9 Nitrobenzene-d5	82	6.796	6.796	0.000	90	9061	0.4000	0.3986	
$ 10 2-Fluorobiphenyl	172	8.489	8.489	0.000	99	20887	0.4000	0.4216	
$ 11 2,4,6-Tribromophenol	330	9.857	9.857	0.000	85	2636	0.4000	0.3686	
$ 12 Terphenyl-d14	244	12.304	12.304	0.000	98	18450	0.4000	0.3760	
13 1,4-Dioxane	88	1.432	1.432	0.000	1	2513	0.4000	0.4376	M
14 N-Nitrosodimethylamine	74	2.084	2.084	0.000	58	2499	0.4000	0.3426	M
15 Pyridine	79	2.170	2.170	0.000	92	4427	0.4000	0.3243	M
22 Methyl methanesulfonate	80	4.600	4.600	0.000	84	3723	0.4000	0.3920	
26 Benzaldehyde	77	5.802	5.802	0.000	92	4938	0.4000	0.4374	
27 Phenol	94	5.909	5.909	0.000	97	9911	0.4000	0.4172	
28 Aniline	93	5.920	5.920	0.000	95	10692	0.4000	0.3991	
29 Bis(2-chloroethyl)ether	93	5.989	5.989	0.000	89	6632	0.4000	0.4037	
31 2-Chlorophenol	128	6.048	6.048	0.000	95	8190	0.4000	0.4071	
32 n-Decane	43	6.117	6.117	0.000	84	7968	0.4000	0.4149	
33 1,3-Dichlorobenzene	146	6.203	6.203	0.000	96	9777	0.4000	0.4231	
34 1,4-Dichlorobenzene	146	6.278	6.278	0.000	90	9431	0.4000	0.3984	
36 Benzyl alcohol	108	6.390	6.390	0.000	89	4699	0.4000	0.3899	
37 1,2-Dichlorobenzene	146	6.427	6.427	0.000	95	9216	0.4000	0.4071	
38 2-Methylphenol	108	6.502	6.502	0.000	95	6892	0.4000	0.3938	
39 Indene	116	6.513	6.513	0.000	90	14197	0.4000	0.4188	
40 2,2'-oxybis[1-chloropropan	45	6.529	6.529	0.000	91	10399	0.4000	0.4320	
41 N-Nitrosopyrrolidine	100	6.614	6.614	0.000	81	3698	0.4000	0.4628	
44 N-Nitrosodi-n-propylamine	70	6.646	6.646	0.000	70	5411	0.4000	0.4209	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
43 Acetophenone	105	6.646	6.646	0.000	86	11746	0.4000	0.4421	
45 4-Methylphenol	108	6.652	6.652	0.000	88	8304	0.4000	0.4502	
47 Hexachloroethane	117	6.764	6.764	0.000	93	4288	0.4000	0.4156	
48 Nitrobenzene	77	6.812	6.812	0.000	88	9006	0.4000	0.4053	
50 Isophorone	82	7.036	7.036	0.000	97	14666	0.4000	0.4023	
51 2-Nitrophenol	139	7.122	7.122	0.000	89	3712	0.4000	0.3315	
52 2,4-Dimethylphenol	107	7.154	7.154	0.000	97	8968	0.4000	0.4131	
56 Benzoic acid	122	7.213	7.213	0.000	1	180	0.4000	3.04	M
55 Bis(2-chloroethoxy)methane	93	7.239	7.239	0.000	97	9380	0.4000	0.4265	
57 2,4-Dichlorophenol	162	7.346	7.346	0.000	93	6905	0.4000	0.3711	
59 1,2,4-Trichlorobenzene	180	7.437	7.437	0.000	90	9499	0.4000	0.4237	
60 Naphthalene	128	7.506	7.506	0.000	97	27184	0.4000	0.4272	
62 4-Chloroaniline	127	7.544	7.544	0.000	94	10278	0.4000	0.3914	
63 2,6-Dichlorophenol	162	7.560	7.560	0.000	95	7251	0.4000	0.3888	
64 Hexachlorobutadiene	225	7.629	7.629	0.000	93	5492	0.4000	0.3832	
67 Caprolactam	113	7.832	7.832	0.000	77	2415	0.4000	0.4314	
70 4-Chloro-3-methylphenol	107	7.987	7.987	0.000	94	7078	0.4000	0.3830	
72 2-Methylnaphthalene	142	8.158	8.158	0.000	92	18652	0.4000	0.4119	
75 1-Methylnaphthalene	142	8.249	8.249	0.000	92	16658	0.4000	0.4188	
76 Hexachlorocyclopentadiene	237	8.308	8.308	0.000	91	4913	0.4000	0.3220	
77 1,2,4,5-Tetrachlorobenzene	216	8.313	8.313	0.000	94	9508	0.4000	0.4219	
78 2,4,6-Trichlorophenol	196	8.409	8.409	0.000	89	5323	0.4000	0.3796	
79 2,4,5-Trichlorophenol	196	8.441	8.441	0.000	90	5199	0.4000	0.3535	
80 1,1'-Biphenyl	154	8.580	8.580	0.000	94	22740	0.4000	0.4154	
81 2-Chloronaphthalene	162	8.612	8.612	0.000	95	18252	0.4000	0.4245	
82 2-Nitroaniline	65	8.687	8.687	0.000	78	4283	0.4000	0.3524	
86 Dimethyl phthalate	163	8.842	8.842	0.000	98	19292	0.4000	0.4207	
87 1,3-Dinitrobenzene	168	8.874	8.874	0.000	80	1605	0.4000	0.2200	
88 2,6-Dinitrotoluene	165	8.901	8.901	0.000	88	3607	0.4000	0.3463	
89 Acenaphthylene	152	8.997	8.997	0.000	98	27253	0.4000	0.4128	
90 3-Nitroaniline	138	9.061	9.061	0.000	57	3681	0.4000	0.3301	
91 Acenaphthene	153	9.157	9.157	0.000	91	17469	0.4000	0.4177	
92 2,4-Dinitrophenol	184	9.168	9.168	0.000	57	2566	0.8000	2.81	
93 4-Nitrophenol	109	9.195	9.195	0.000	83	4889	0.8000	0.6559	
94 2,4-Dinitrotoluene	165	9.275	9.275	0.000	90	4331	0.4000	0.3096	
95 Dibenzofuran	168	9.317	9.317	0.000	95	25419	0.4000	0.4081	
97 2,3,5,6-Tetrachlorophenol	232	9.387	9.387	0.000	85	4178	0.4000	0.3108	
99 2,3,4,6-Tetrachlorophenol	232	9.424	9.424	0.000	72	4803	0.4000	0.3492	
100 2-Naphthylamine	143	9.451	9.451	0.000	95	16555	0.4000	0.3902	
101 Diethyl phthalate	149	9.483	9.483	0.000	97	21408	0.4000	0.4461	
102 Hexadecane	57	9.494	9.494	0.000	96	12604	0.4000	0.4113	
104 4-Chlorophenyl phenyl ethe	204	9.617	9.617	0.000	91	10711	0.4000	0.4161	
105 4-Nitroaniline	138	9.622	9.622	0.000	75	4024	0.4000	0.3413	
106 Fluorene	166	9.633	9.633	0.000	94	20161	0.4000	0.3951	
108 4,6-Dinitro-2-methylphenol	198	9.654	9.654	0.000	71	5441	0.8000	0.6185	
109 N-Nitrosodiphenylamine	169	9.718	9.718	0.000	62	30291	0.8000	0.8457	
61 Azobenzene	77	9.761	9.761	0.000	98	19671	0.4000	0.4064	
111 1,2-Diphenylhydrazine	77	9.761	9.761	0.000	98	19671	0.4000	0.4064	
116 4-Bromophenyl phenyl ether	248	10.071	10.071	0.000	67	5068	0.4000	0.3494	
118 Hexachlorobenzene	284	10.156	10.156	0.000	89	6169	0.4000	0.3908	
119 Atrazine	200	10.188	10.188	0.000	88	4701	0.4000	0.3342	
122 Pentachlorophenol	266	10.327	10.327	0.000	89	10851	0.8000	1.00	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
121 n-Octadecane	57	10.338	10.338	0.000	93	13310	0.4000	0.4091	
126 Phenanthrene	178	10.530	10.530	0.000	95	33259	0.4000	0.4232	
128 Anthracene	178	10.584	10.584	0.000	97	31738	0.4000	0.4048	
130 Carbazole	167	10.722	10.722	0.000	96	27168	0.4000	0.3936	
132 Di-n-butyl phthalate	149	11.027	11.027	0.000	99	29099	0.4000	0.3667	
137 Fluoranthene	202	11.839	11.839	0.000	97	33144	0.4000	0.3951	
138 Benzidine	184	11.962	11.962	0.000	0	11290	0.4000	0.3458	M
139 Pyrene	202	12.143	12.143	0.000	96	32201	0.4000	0.4046	
144 Butyl benzyl phthalate	149	13.009	13.009	0.000	96	12332	0.4000	0.3853	
149 3,3'-Dichlorobenzidine	252	13.981	13.981	0.000	71	10712	0.4000	0.3806	
151 Bis(2-ethylhexyl) phthalat	149	14.040	14.040	0.000	0	15912	0.4000	0.3588	M
152 Benzo[a]anthracene	228	14.051	14.051	0.000	98	30661	0.4000	0.4068	
153 Chrysene	228	14.120	14.120	0.000	74	28274	0.4000	0.4006	
156 Di-n-octyl phthalate	149	15.359	15.359	0.000	0	38875	0.4000	0.4952	M
157 7,12-Dimethylbenz(a)anthra	256	16.203	16.203	0.000	80	11900	0.4000	0.3634	M
158 Benzo[b]fluoranthene	252	16.225	16.225	0.000	98	29136	0.4000	0.3867	
159 Benzo[k]fluoranthene	252	16.284	16.284	0.000	97	29227	0.4000	0.3882	
176 Benzo[e]pyrene	252	16.796	16.796	0.000	0	26976	0.4000	0.3844	M
160 Benzo[a]pyrene	252	16.914	16.914	0.000	77	26620	0.4000	0.3712	
163 Indeno[1,2,3-cd]pyrene	276	19.275	19.275	0.000	97	29792	0.4000	0.3636	
164 Dibenz(a,h)anthracene	278	19.313	19.313	0.000	78	24757	0.4000	0.3568	M
165 Benzo[g,h,i]perylene	276	19.890	19.890	0.000	94	27696	0.4000	0.3882	M
S 208 Methyl Phenols,Total	108				0		0.8000	0.8440	
S 206 Total Cresols	108				0		0.8000	0.8440	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

SVTAPSTD0.4i_00009 Amount Added: 1.00 Units: mL

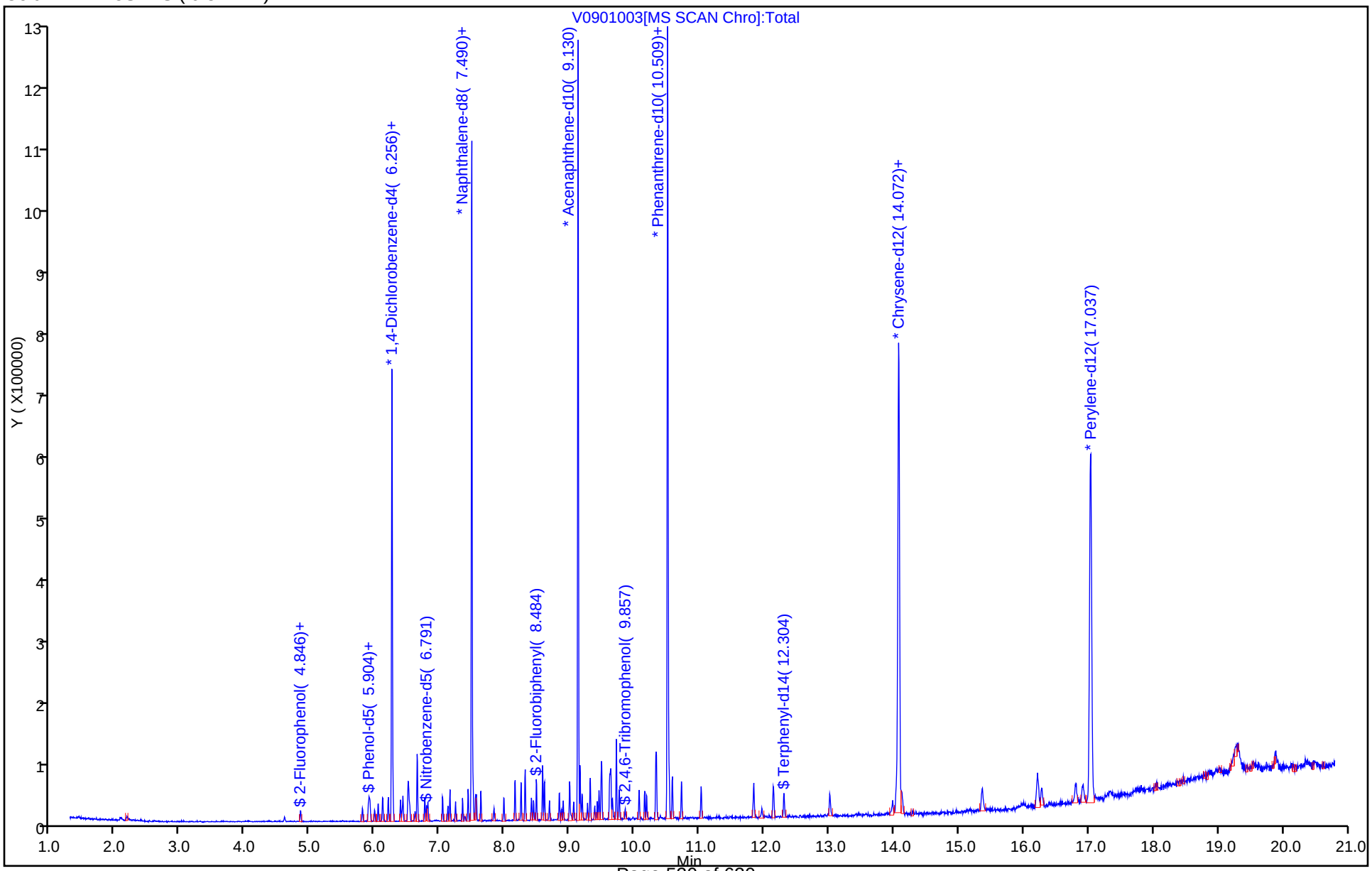
Report Date: 01-Sep-2015 04:26:26 Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CH731\20150831-8349.b\V0901003.D

Injection Date:	31-Aug-2015 13:40:30	Instrument ID:	CH731	Operator ID:	003200
Lims ID:	IC			Worklist Smp#:	3
Client ID:					
Injection Vol:	2.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	BNA_CH731	Limit Group:	BNA 8270D ICAL		

Column: Rxi-5SilMS (0.32 mm)



Manual Integration/User Assign Peak Report

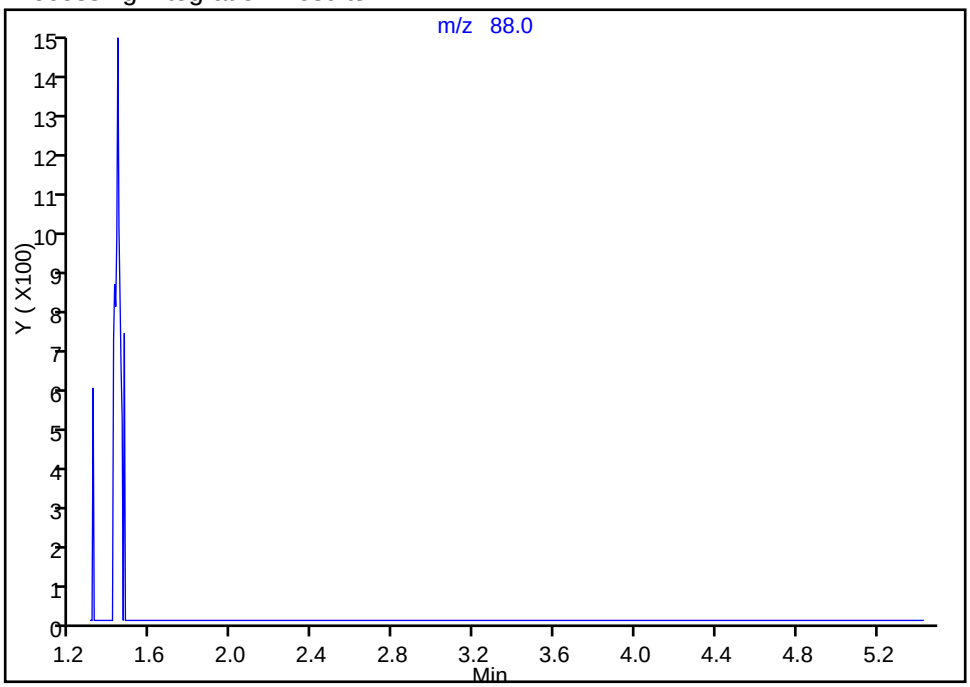
TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CH731\20150831-8349.b\V0901003.D
Injection Date: 31-Aug-2015 13:40:30 Instrument ID: CH731
Lims ID: IC
Client ID:
Operator ID: 003200 ALS Bottle#: 2 Worklist Smp#: 3
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: BNA_CH731 Limit Group: BNA 8270D ICAL
Column: Rxi-5SilMS (0.32 mm) Detector MS SCAN

13 1,4-Dioxane, CAS: 123-91-1

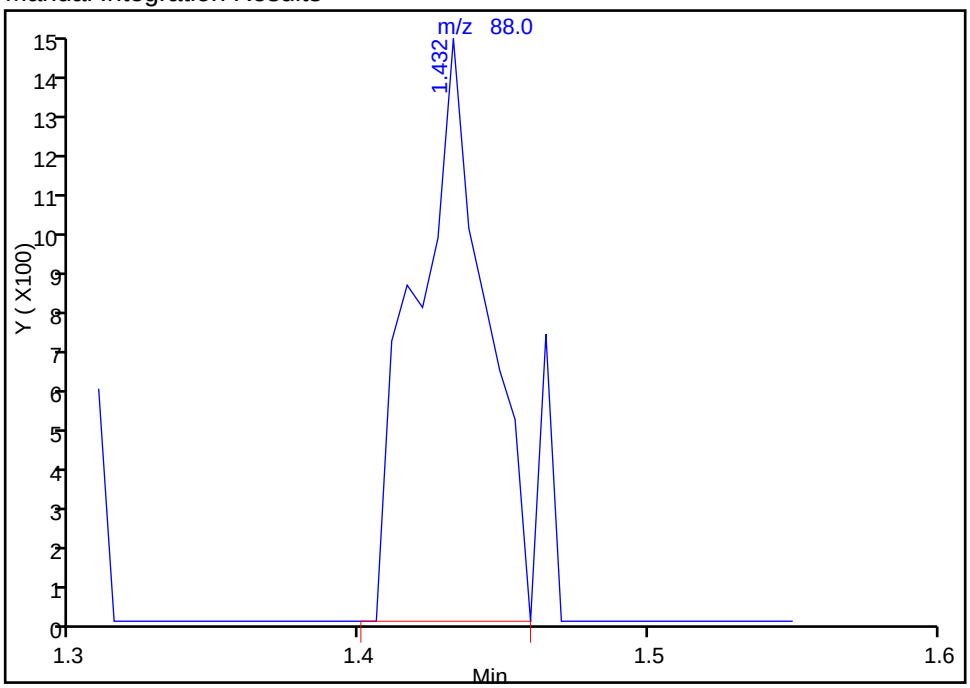
Not Detected
Expected RT: 1.43

Processing Integration Results



Manual Integration Results

RT: 1.43
Area: 2513
Amount: 0.437583
Amount Units: ng



Reviewer: piccolinov, 01-Sep-2015 04:09:03
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

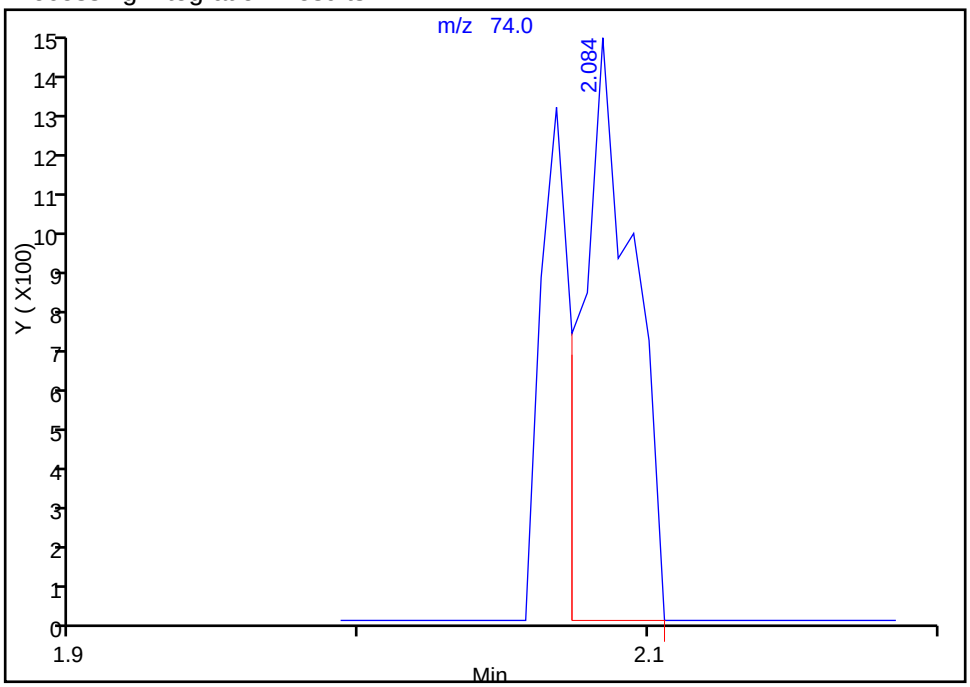
TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CH731\20150831-8349.b\V0901003.D				
Injection Date:	31-Aug-2015 13:40:30	Instrument ID:	CH731		
Lims ID:	IC				
Client ID:					
Operator ID:	003200	ALS Bottle#:	2	Worklist Smp#:	3
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	BNA_CH731	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

14 N-Nitrosodimethylamine, CAS: 62-75-9

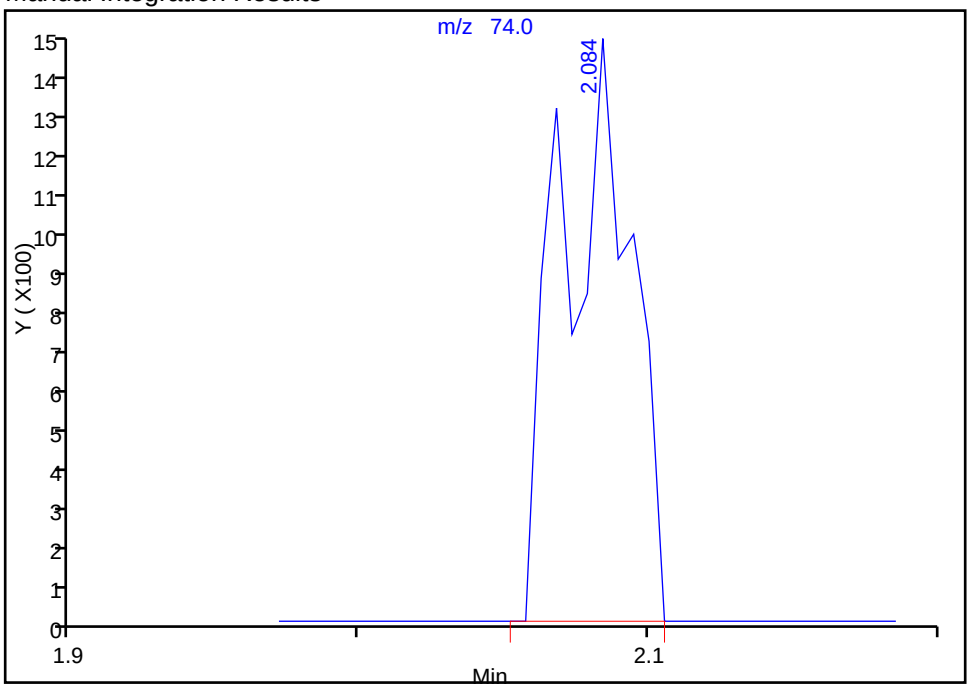
Processing Integration Results

RT: 2.08
Area: 1805
Amount: 0.396321
Amount Units: ng



Manual Integration Results

RT: 2.08
Area: 2499
Amount: 0.342589
Amount Units: ng



Reviewer: piccolinov, 01-Sep-2015 04:09:03
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

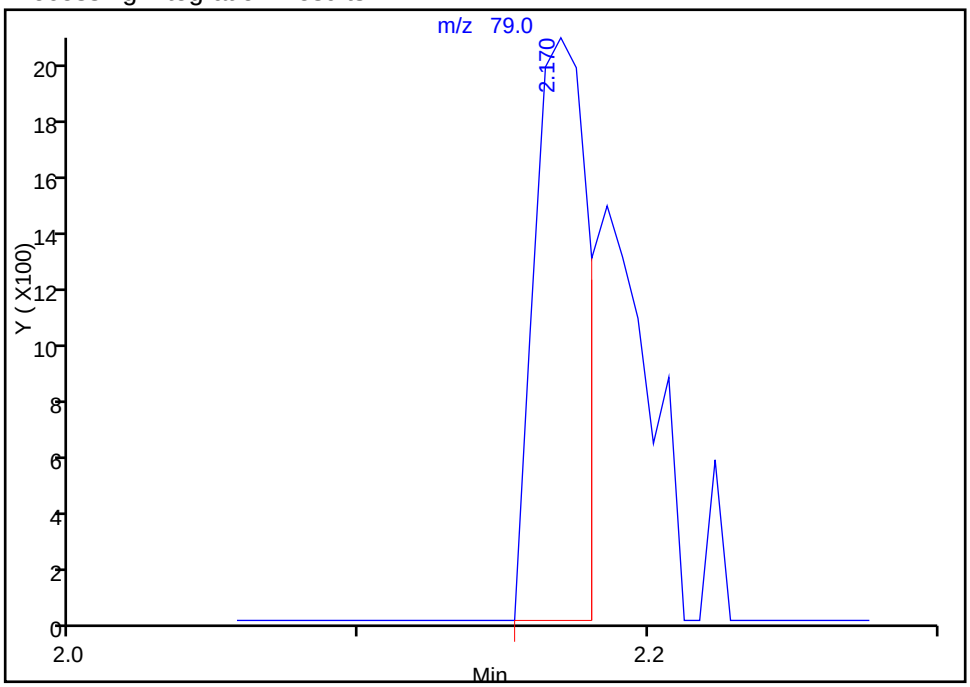
TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CH731\20150831-8349.b\V0901003.D
Injection Date: 31-Aug-2015 13:40:30 Instrument ID: CH731
Lims ID: IC
Client ID:
Operator ID: 003200 ALS Bottle#: 2 Worklist Smp#: 3
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: BNA_CH731 Limit Group: BNA 8270D ICAL
Column: Rxi-5SilMS (0.32 mm) Detector MS SCAN

15 Pyridine, CAS: 110-86-1

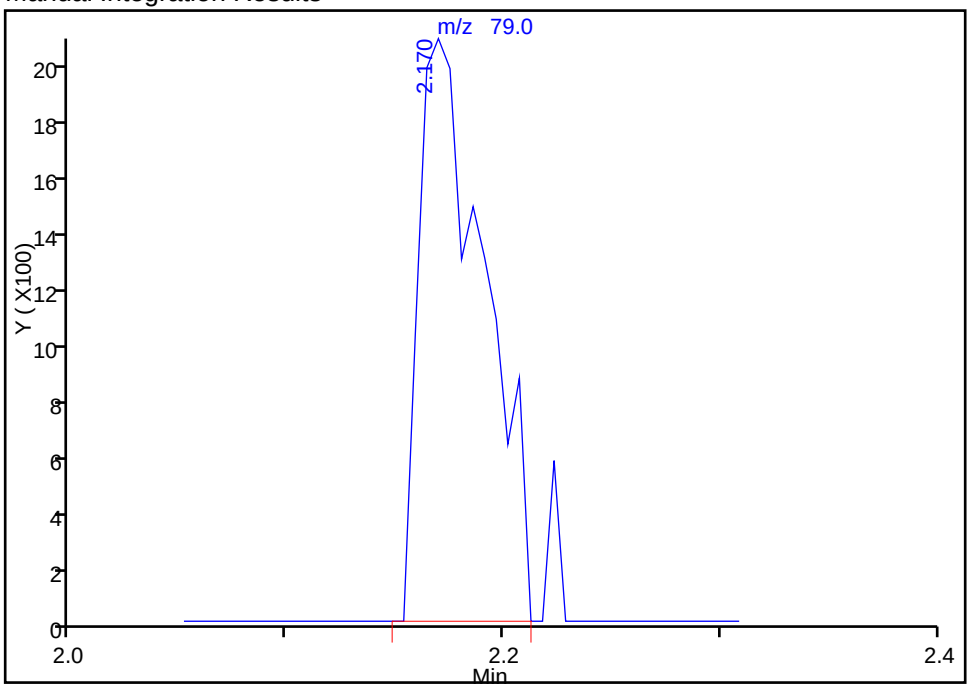
Processing Integration Results

RT: 2.17
Area: 2695
Amount: 0.390808
Amount Units: ng



Manual Integration Results

RT: 2.17
Area: 4427
Amount: 0.324294
Amount Units: ng



Reviewer: piccolinov, 01-Sep-2015 04:09:03
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

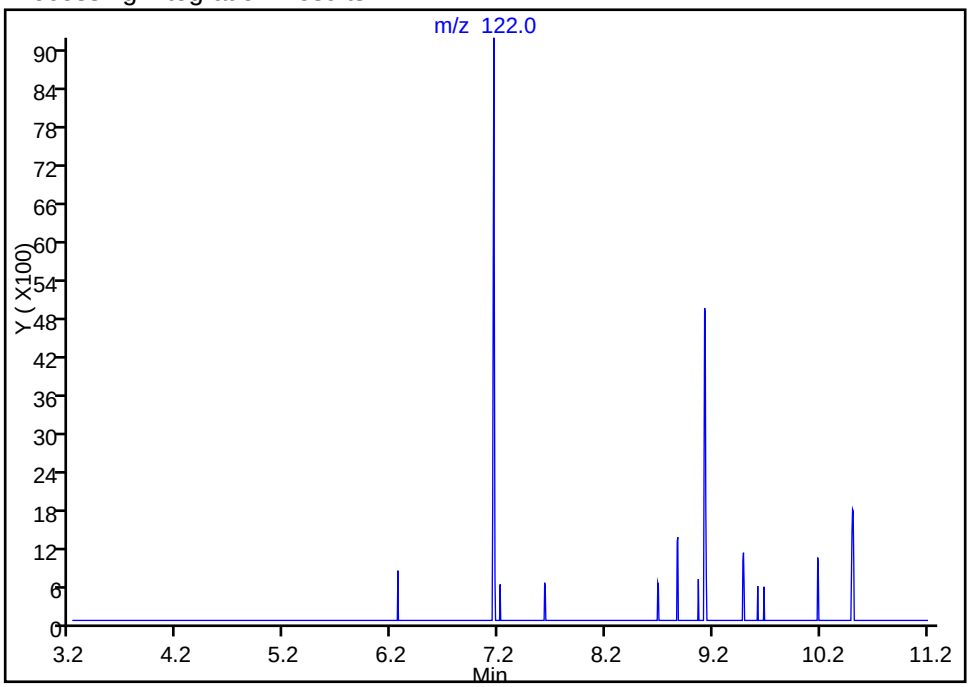
TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CH731\20150831-8349.b\V0901003.D				
Injection Date:	31-Aug-2015 13:40:30	Instrument ID:	CH731		
Lims ID:	IC				
Client ID:					
Operator ID:	003200	ALS Bottle#:	2	Worklist Smp#:	3
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	BNA_CH731	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

56 Benzoic acid, CAS: 65-85-0

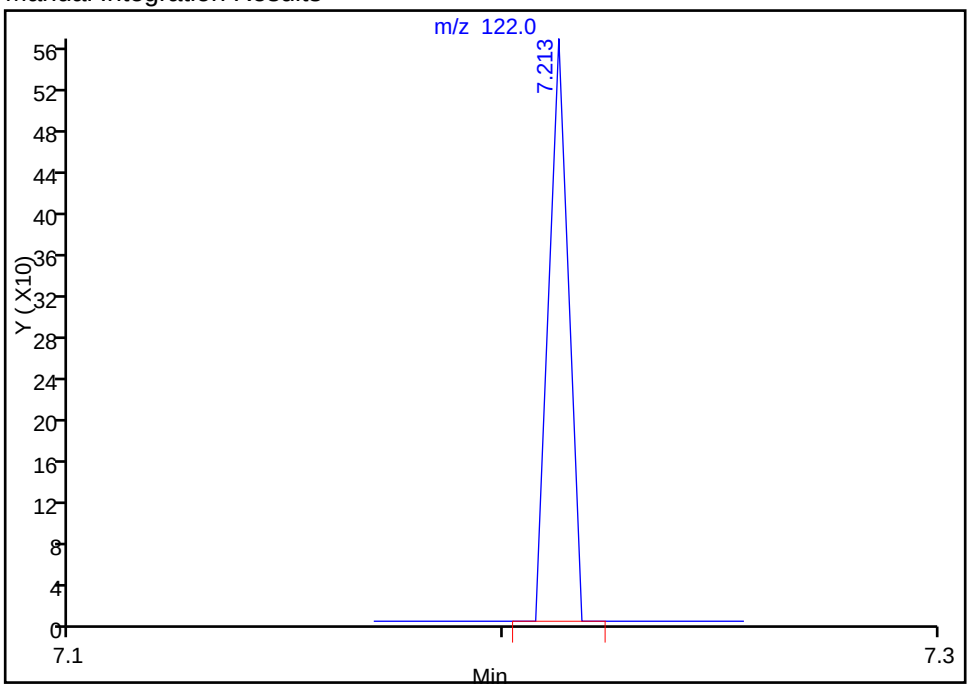
Not Detected
Expected RT: 7.21

Processing Integration Results



Manual Integration Results

RT: 7.21
Area: 180
Amount: 3.041930
Amount Units: ng



Reviewer: piccolinov, 01-Sep-2015 04:09:03
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

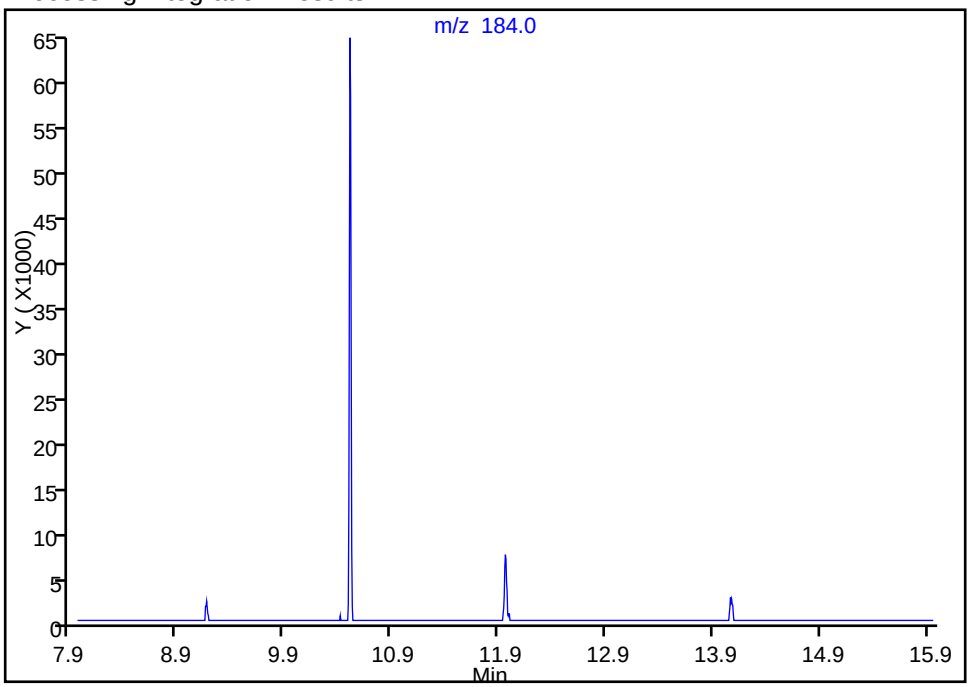
TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CH731\20150831-8349.b\V0901003.D				
Injection Date:	31-Aug-2015 13:40:30	Instrument ID:	CH731		
Lims ID:	IC				
Client ID:					
Operator ID:	003200	ALS Bottle#:	2	Worklist Smp#:	3
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	BNA_CH731	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

138 Benzidine, CAS: 92-87-5

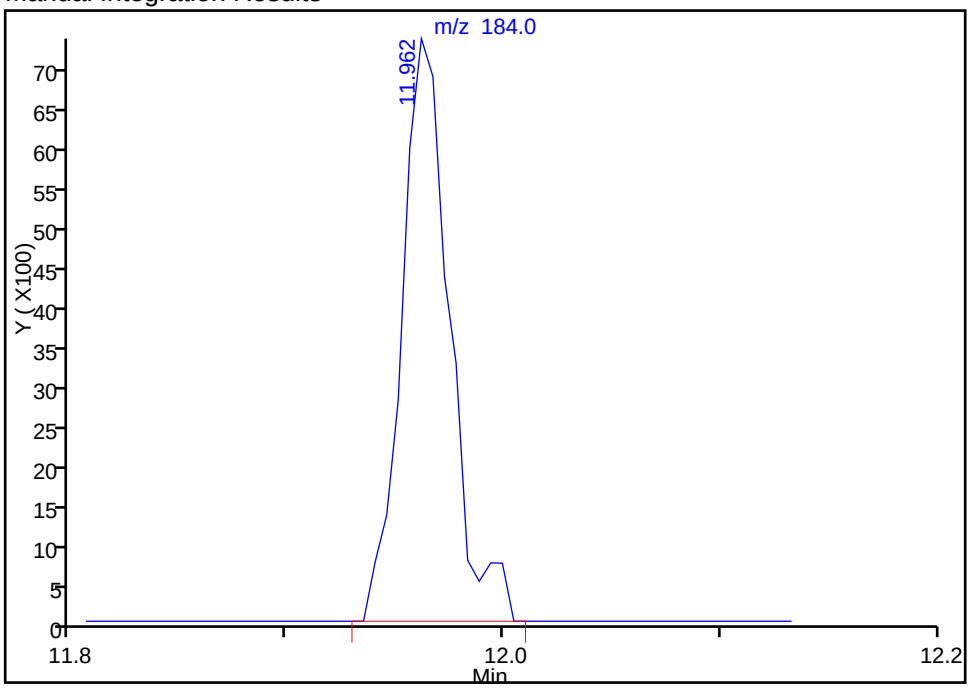
Not Detected
Expected RT: 11.96

Processing Integration Results



Manual Integration Results

RT: 11.96
Area: 11290
Amount: 0.345801
Amount Units: ng



Reviewer: piccolinov, 01-Sep-2015 04:09:03
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

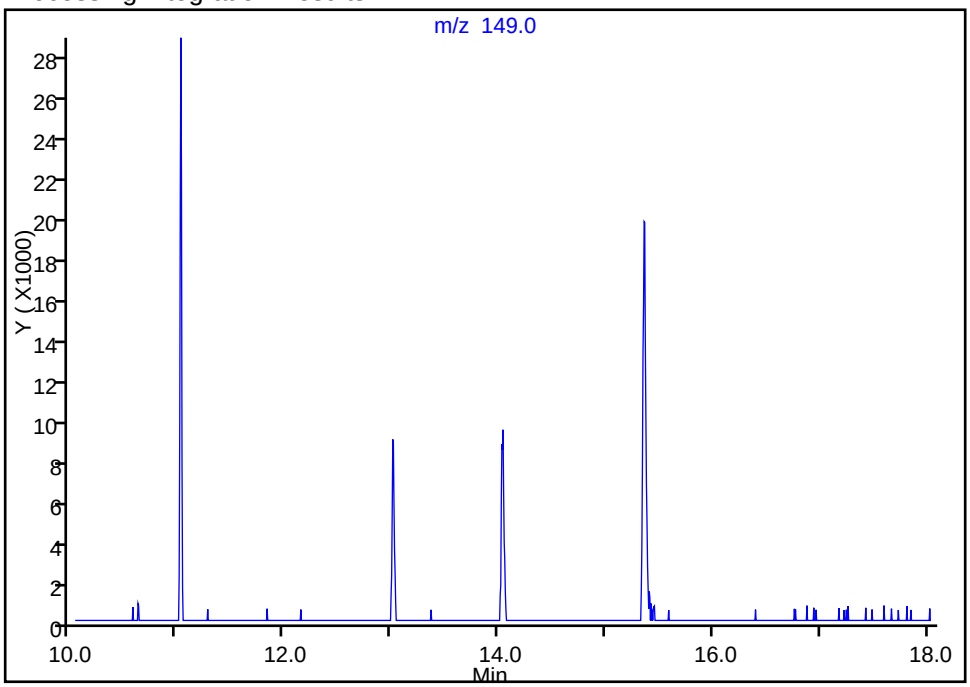
TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CH731\20150831-8349.b\V0901003.D				
Injection Date:	31-Aug-2015 13:40:30	Instrument ID:	CH731		
Lims ID:	IC				
Client ID:					
Operator ID:	003200	ALS Bottle#:	2	Worklist Smp#:	3
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	BNA_CH731	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

151 Bis(2-ethylhexyl) phthalate, CAS: 117-81-7

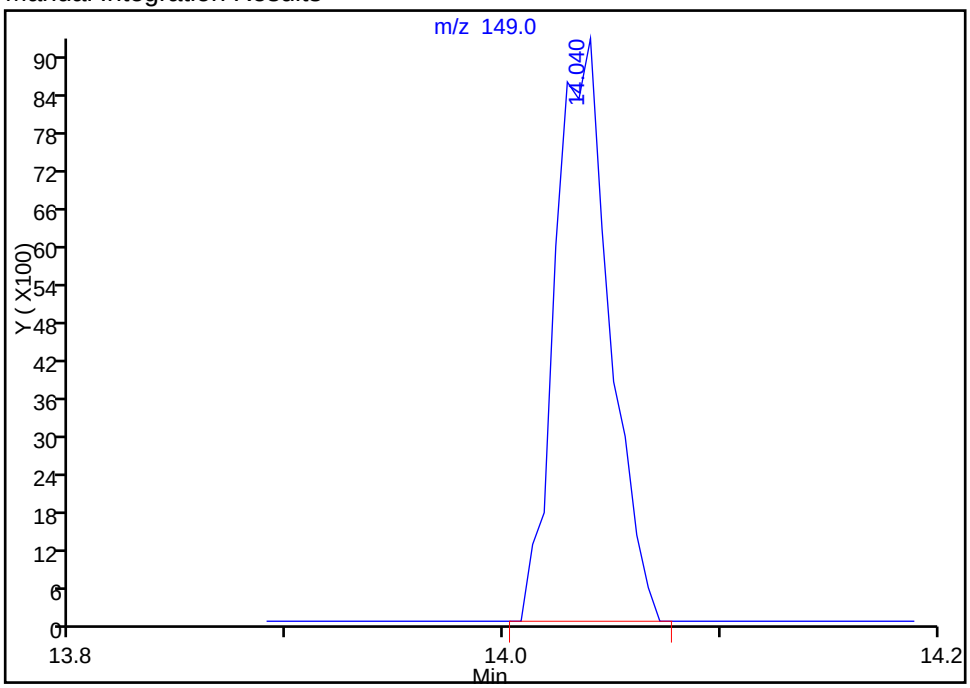
Processing Integration Results

Not Detected
Expected RT: 14.04



Manual Integration Results

RT: 14.04
Area: 15912
Amount: 0.358836
Amount Units: ng



Reviewer: piccolinov, 01-Sep-2015 04:09:03
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

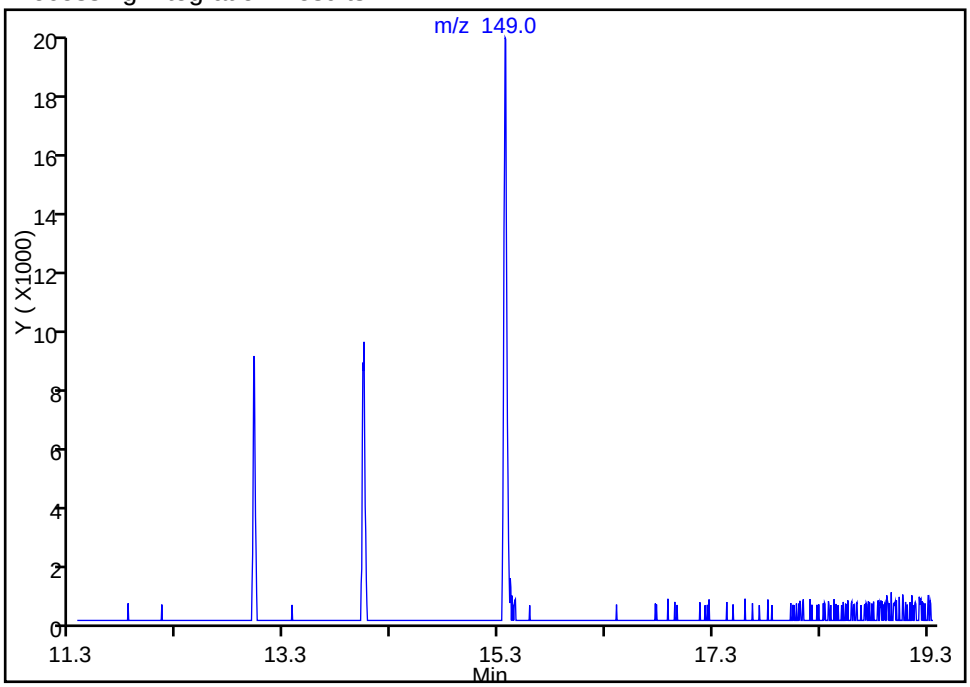
TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CH731\20150831-8349.b\V0901003.D				
Injection Date:	31-Aug-2015 13:40:30	Instrument ID:	CH731		
Lims ID:	IC				
Client ID:					
Operator ID:	003200	ALS Bottle#:	2	Worklist Smp#:	3
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	BNA_CH731	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

156 Di-n-octyl phthalate, CAS: 117-84-0

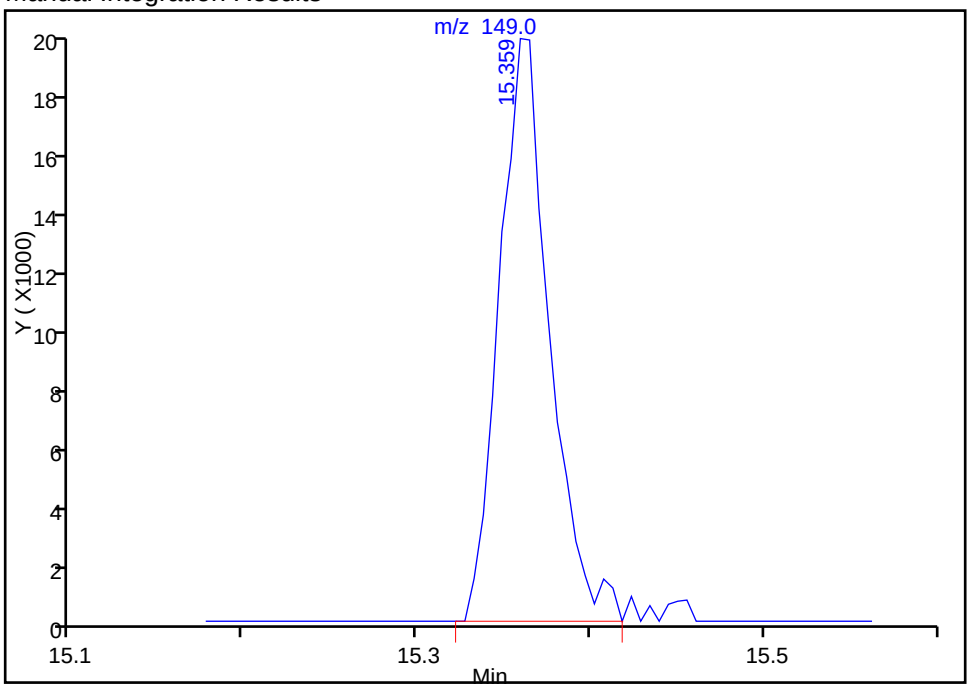
Not Detected
Expected RT: 15.36

Processing Integration Results



Manual Integration Results

RT: 15.36
Area: 38875
Amount: 0.495243
Amount Units: ng



Reviewer: piccolinov, 01-Sep-2015 04:09:03
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

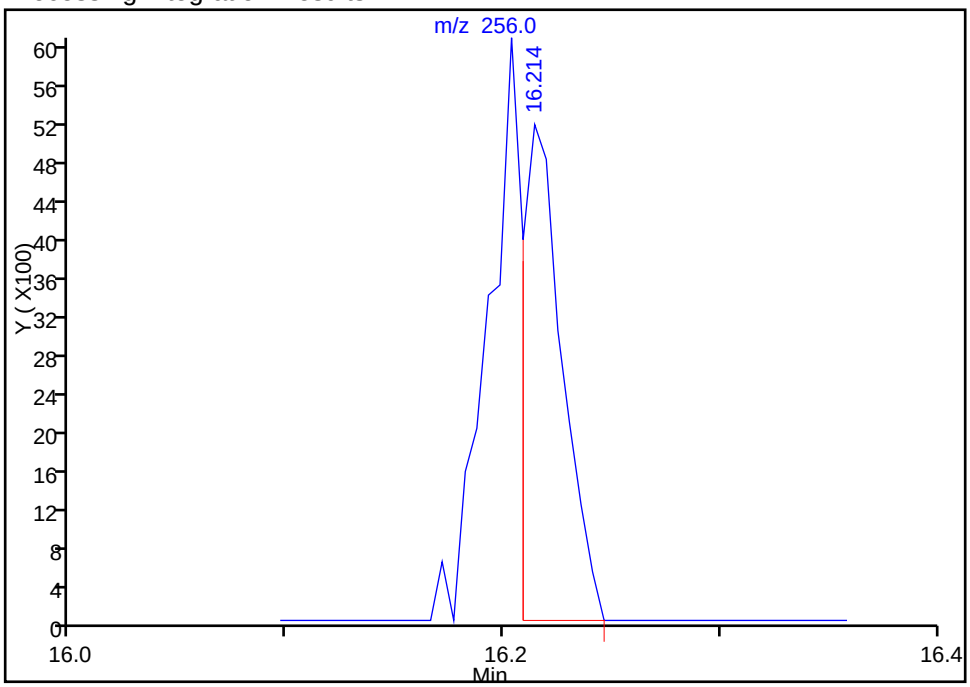
TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CH731\20150831-8349.b\V0901003.D				
Injection Date:	31-Aug-2015 13:40:30	Instrument ID:	CH731		
Lims ID:	IC				
Client ID:					
Operator ID:	003200	ALS Bottle#:	2	Worklist Smp#:	3
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	BNA_CH731	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

157 7,12-Dimethylbenz(a)anthracene, CAS: 57-97-6

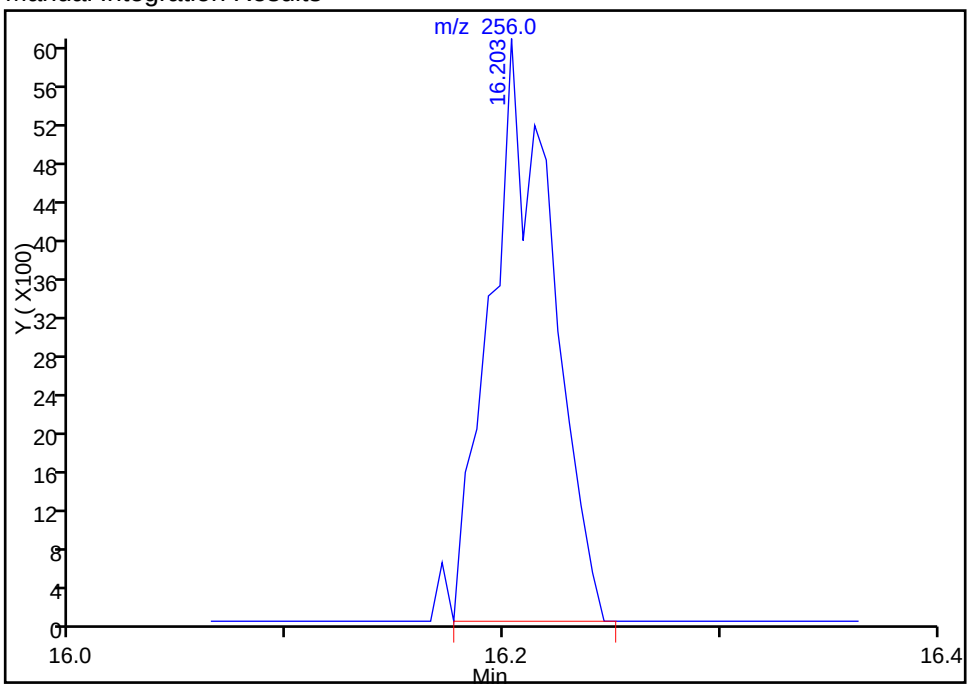
Processing Integration Results

RT: 16.21
Area: 6627
Amount: 0.397567
Amount Units: ng



Manual Integration Results

RT: 16.20
Area: 11900
Amount: 0.363402
Amount Units: ng



Reviewer: piccolinov, 01-Sep-2015 04:09:03
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

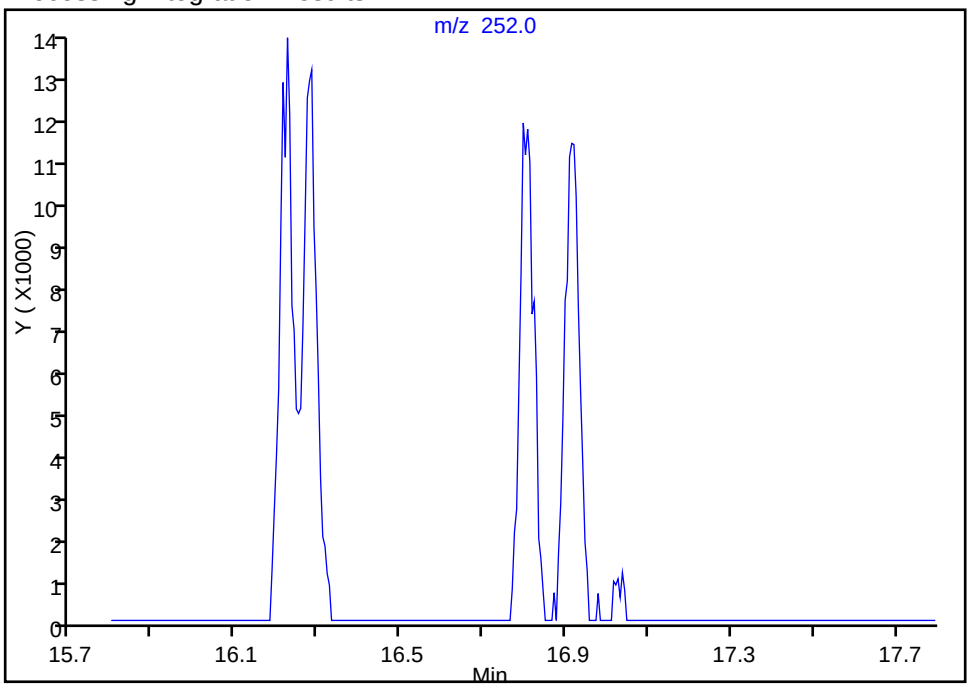
TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CH731\20150831-8349.b\V0901003.D				
Injection Date:	31-Aug-2015 13:40:30	Instrument ID:	CH731		
Lims ID:	IC				
Client ID:					
Operator ID:	003200	ALS Bottle#:	2	Worklist Smp#:	3
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	BNA_CH731	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

176 Benzo[e]pyrene, CAS: 192-97-2

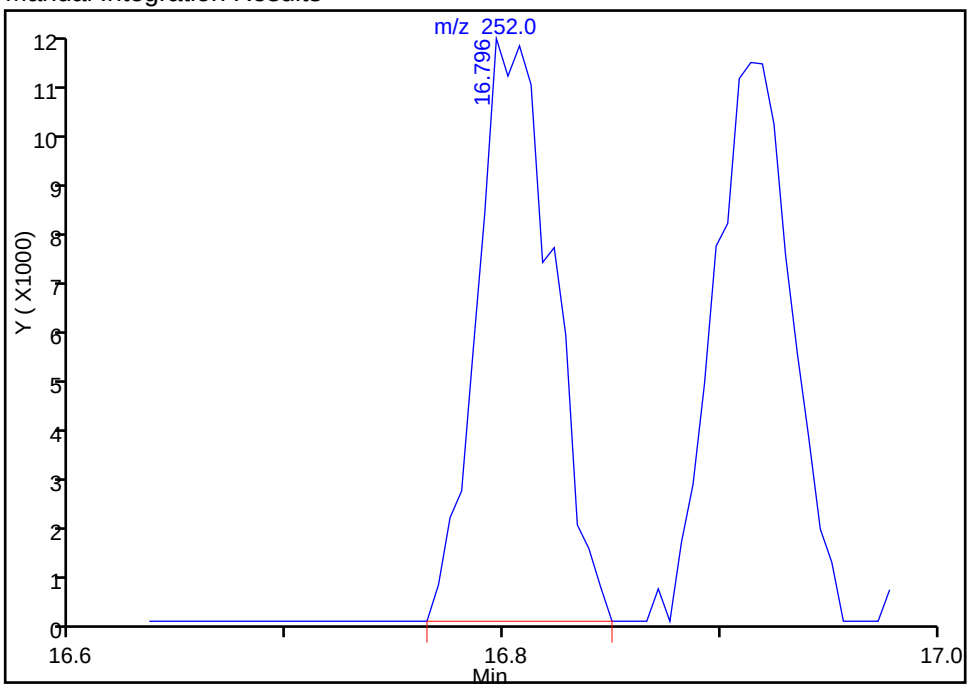
Not Detected
Expected RT: 16.80

Processing Integration Results



Manual Integration Results

RT: 16.80
Area: 26976
Amount: 0.384447
Amount Units: ng



Reviewer: piccolinov, 01-Sep-2015 04:09:03
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

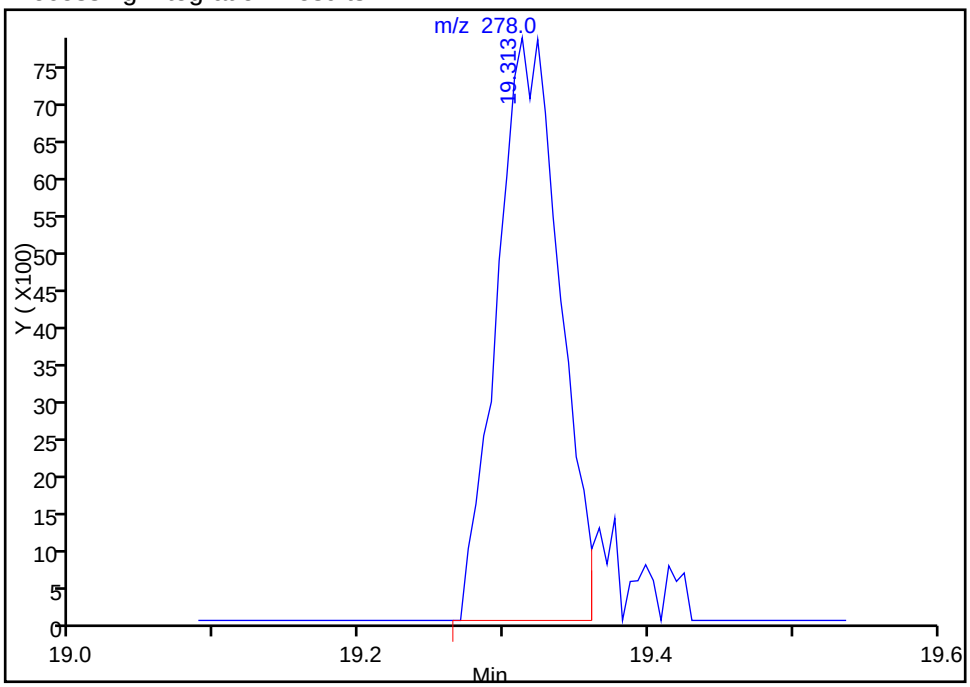
TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CH731\20150831-8349.b\V0901003.D				
Injection Date:	31-Aug-2015 13:40:30	Instrument ID:	CH731		
Lims ID:	IC				
Client ID:					
Operator ID:	003200	ALS Bottle#:	2	Worklist Smp#:	3
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	BNA_CH731	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

164 Dibenz(a,h)anthracene, CAS: 53-70-3

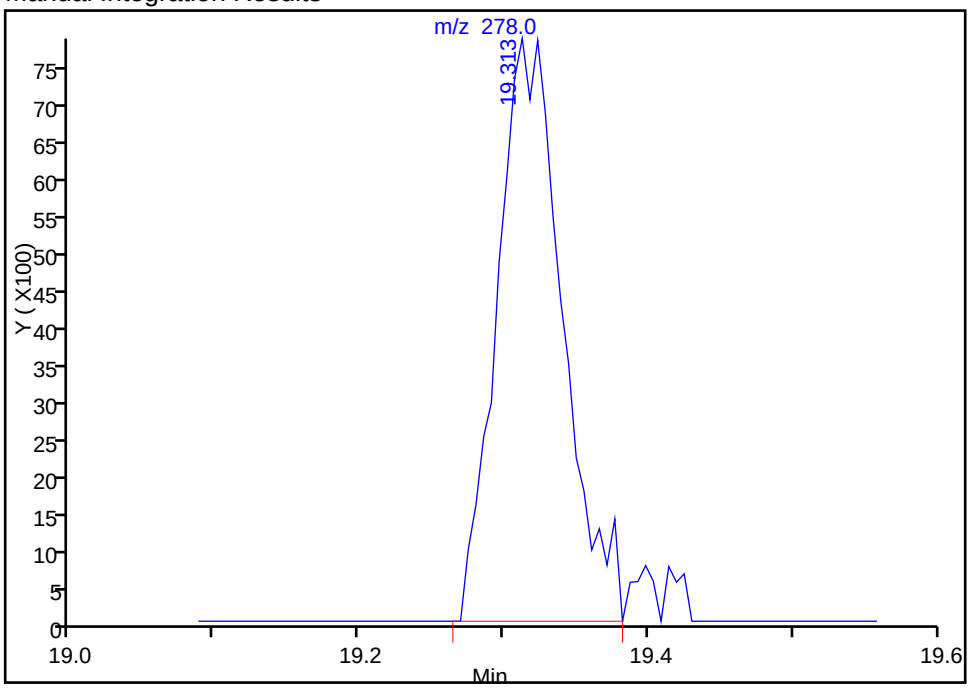
Processing Integration Results

RT: 19.31
Area: 23672
Amount: 0.343538
Amount Units: ng



Manual Integration Results

RT: 19.31
Area: 24757
Amount: 0.356840
Amount Units: ng



Reviewer: piccolinov, 01-Sep-2015 04:09:03
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

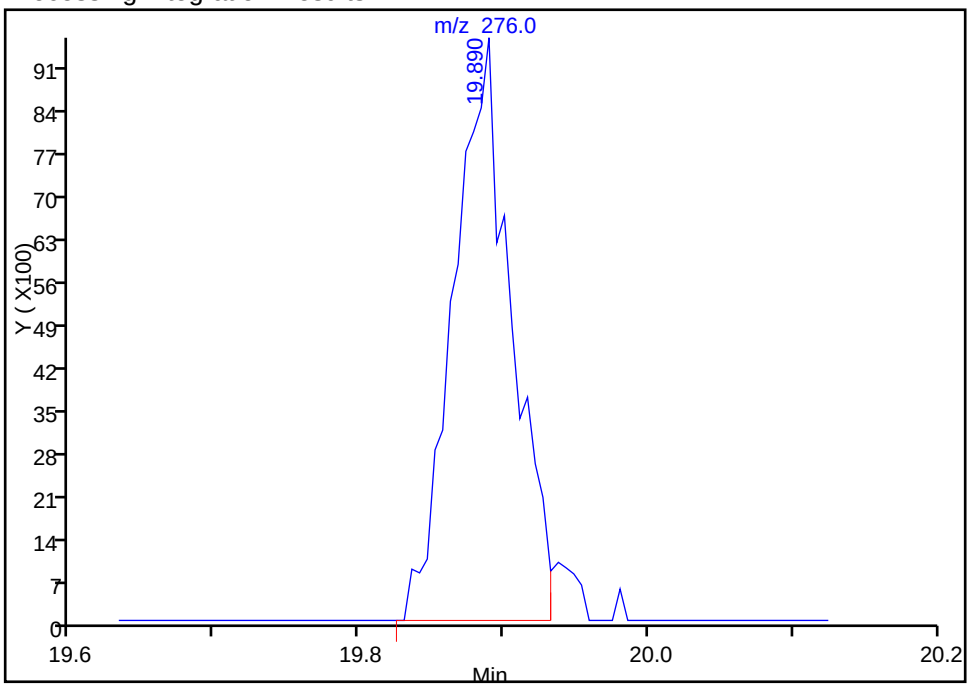
TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CH731\20150831-8349.b\V0901003.D				
Injection Date:	31-Aug-2015 13:40:30	Instrument ID:	CH731		
Lims ID:	IC				
Client ID:					
Operator ID:	003200	ALS Bottle#:	2	Worklist Smp#:	3
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	BNA_CH731	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

165 Benzo[g,h,i]perylene, CAS: 191-24-2

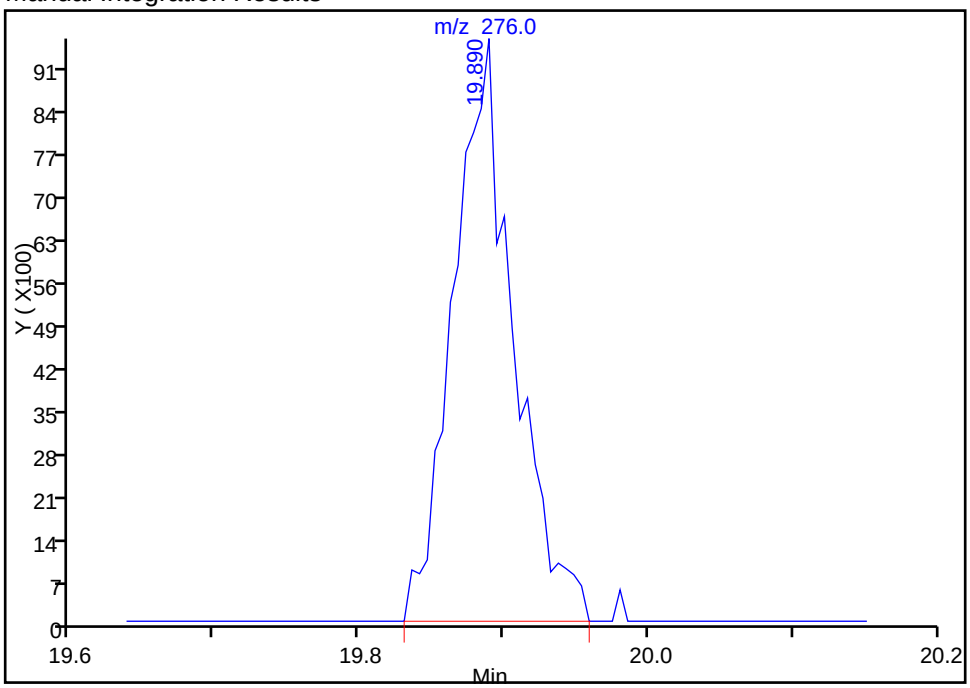
Processing Integration Results

RT: 19.89
Area: 26688
Amount: 0.374712
Amount Units: ng



Manual Integration Results

RT: 19.89
Area: 27696
Amount: 0.388177
Amount Units: ng



Reviewer: piccolinov, 01-Sep-2015 04:09:03
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CH731\20150831-8349.b\V0901004.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 31-Aug-2015 14:08:30 ALS Bottle#: 3 Worklist Smp#: 4
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 180-0008349-004
Operator ID: 003200 Instrument ID: CH731
Sublist: chrom-BNA_CH731*sub4

Method: \\ChromNA\Pittsburgh\ChromData\CH731\20150831-8349.b\BNA_CH731.m
Limit Group: BNA 8270D ICAL
Last Update: 01-Sep-2015 04:26:30 Calib Date: 31-Aug-2015 16:55:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CH731\20150831-8349.b\V0901010.D

Column 1 : Rxi-5SilMS (0.32 mm) Det: MS SCAN
Process Host: XAWRK024

First Level Reviewer: piccolinov Date: 01-Sep-2015 04:10:30

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.257	6.256	0.001	94	108227	8.00	8.00	
* 2 Naphthalene-d8	136	7.485	7.490	-0.005	100	432257	8.00	8.00	
* 3 Acenaphthene-d10	164	9.125	9.130	-0.005	92	273755	8.00	8.00	
* 4 Phenanthrene-d10	188	10.509	10.509	0.000	97	490293	8.00	8.00	
* 5 Chrysene-d12	240	14.067	14.072	-0.005	97	495963	8.00	8.00	
* 6 Perylene-d12	264	17.026	17.031	-0.005	97	468875	8.00	8.00	
$ 7 2-Fluorophenol	112	4.852	4.851	0.001	92	32550	2.00	2.04	
$ 8 Phenol-d5	99	5.893	5.893	0.000	95	41939	2.00	2.02	
$ 9 Nitrobenzene-d5	82	6.791	6.796	-0.005	91	43441	2.00	2.07	
$ 10 2-Fluorobiphenyl	172	8.484	8.489	-0.005	100	97501	2.00	2.04	
$ 11 2,4,6-Tribromophenol	330	9.852	9.857	-0.005	89	11634	2.00	1.71	
$ 12 Terphenyl-d14	244	12.299	12.304	-0.005	99	96061	2.00	2.04	
13 1,4-Dioxane	88	1.433	1.432	0.001	88	11101	2.00	2.02	
14 N-Nitrosodimethylamine	74	2.068	2.084	-0.016	85	13632	2.00	1.95	
15 Pyridine	79	2.154	2.170	-0.016	95	26429	2.00	2.02	
22 Methyl methanesulfonate	80	4.601	4.600	0.001	89	18162	2.00	2.00	
26 Benzaldehyde	77	5.803	5.802	0.001	90	22705	2.00	2.10	
27 Phenol	94	5.909	5.909	0.000	99	47455	2.00	2.09	
28 Aniline	93	5.920	5.920	0.000	97	52643	2.00	2.05	
29 Bis(2-chloroethyl)ether	93	5.990	5.989	0.001	96	31795	2.00	2.02	
31 2-Chlorophenol	128	6.043	6.048	-0.005	95	37759	2.00	1.96	
32 n-Decane	43	6.112	6.117	-0.005	88	36716	2.00	2.00	
33 1,3-Dichlorobenzene	146	6.198	6.203	-0.005	95	43060	2.00	1.95	
34 1,4-Dichlorobenzene	146	6.273	6.278	-0.005	95	46277	2.00	2.04	
36 Benzyl alcohol	108	6.390	6.390	0.000	90	22716	2.00	1.97	
37 1,2-Dichlorobenzene	146	6.428	6.427	0.001	94	42858	2.00	1.98	
38 2-Methylphenol	108	6.502	6.502	0.000	97	35486	2.00	2.12	
39 Indene	116	6.513	6.513	0.000	88	64475	2.00	1.99	
40 2,2'-oxybis[1-chloropropan	45	6.529	6.529	0.000	89	48704	2.00	2.12	
41 N-Nitrosopyrrolidine	100	6.615	6.614	0.001	81	14628	2.00	1.91	
44 N-Nitrosodi-n-propylamine	70	6.647	6.646	0.001	70	26603	2.00	2.16	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
43 Acetophenone	105	6.647	6.646	0.001	78	53299	2.00	2.10	
45 4-Methylphenol	108	6.647	6.652	-0.005	61	35608	2.00	2.02	
47 Hexachloroethane	117	6.764	6.764	0.000	93	19947	2.00	2.02	
48 Nitrobenzene	77	6.812	6.812	0.000	90	43310	2.00	2.11	
50 Isophorone	82	7.037	7.036	0.001	99	70568	2.00	2.09	
51 2-Nitrophenol	139	7.122	7.122	0.000	97	21894	2.00	2.11	
52 2,4-Dimethylphenol	107	7.149	7.154	-0.005	97	41418	2.00	2.06	
56 Benzoic acid	122	7.208	7.213	-0.005	56	1307	2.00	3.15	M
55 Bis(2-chloroethoxy)methane	93	7.240	7.239	0.001	97	41308	2.00	2.03	
57 2,4-Dichlorophenol	162	7.347	7.346	0.001	94	34899	2.00	2.03	
59 1,2,4-Trichlorobenzene	180	7.432	7.437	-0.005	94	41709	2.00	2.01	
60 Naphthalene	128	7.507	7.506	0.001	98	121813	2.00	2.07	
62 4-Chloroaniline	127	7.544	7.544	0.000	95	48762	2.00	2.01	
63 2,6-Dichlorophenol	162	7.560	7.560	0.000	96	35789	2.00	2.07	
64 Hexachlorobutadiene	225	7.630	7.629	0.001	96	26793	2.00	2.02	
67 Caprolactam	113	7.833	7.832	0.001	78	9876	2.00	1.91	
70 4-Chloro-3-methylphenol	107	7.982	7.987	-0.005	96	35420	2.00	2.07	
72 2-Methylnaphthalene	142	8.153	8.158	-0.005	92	87821	2.00	2.10	
75 1-Methylnaphthalene	142	8.249	8.249	0.000	92	76649	2.00	2.08	
76 Hexachlorocyclopentadiene	237	8.308	8.308	0.000	95	28210	2.00	1.91	
77 1,2,4,5-Tetrachlorobenzene	216	8.313	8.313	0.000	96	45600	2.00	2.10	
78 2,4,6-Trichlorophenol	196	8.410	8.409	0.001	94	26423	2.00	1.95	
79 2,4,5-Trichlorophenol	196	8.442	8.441	0.001	95	27979	2.00	1.97	
80 1,1'-Biphenyl	154	8.581	8.580	0.001	95	106547	2.00	2.02	
81 2-Chloronaphthalene	162	8.607	8.612	-0.005	96	85690	2.00	2.06	
82 2-Nitroaniline	65	8.682	8.687	-0.005	82	23054	2.00	1.96	
86 Dimethyl phthalate	163	8.837	8.842	-0.005	97	86872	2.00	1.96	
87 1,3-Dinitrobenzene	168	8.869	8.874	-0.005	85	11653	2.00	1.65	
88 2,6-Dinitrotoluene	165	8.901	8.901	0.000	91	19061	2.00	1.90	
89 Acenaphthylene	152	8.997	8.997	0.000	98	130763	2.00	2.05	
90 3-Nitroaniline	138	9.061	9.061	0.000	94	20444	2.00	1.90	
91 Acenaphthene	153	9.158	9.157	0.001	92	83539	2.00	2.07	
92 2,4-Dinitrophenol	184	9.158	9.168	-0.010	60	12511	4.00	4.21	
93 4-Nitrophenol	109	9.190	9.195	-0.005	82	27200	4.00	3.78	
94 2,4-Dinitrotoluene	165	9.275	9.275	0.000	90	25755	2.00	1.91	
95 Dibenzofuran	168	9.312	9.317	-0.005	95	123527	2.00	2.05	
97 2,3,5,6-Tetrachlorophenol	232	9.382	9.387	-0.005	93	24428	2.00	1.88	
99 2,3,4,6-Tetrachlorophenol	232	9.425	9.424	0.001	73	25094	2.00	1.89	
100 2-Naphthylamine	143	9.451	9.451	0.000	96	84965	2.00	2.07	
101 Diethyl phthalate	149	9.483	9.483	0.000	98	95724	2.00	2.07	
102 Hexadecane	57	9.494	9.494	0.000	96	62263	2.00	2.20	
104 4-Chlorophenyl phenyl ethe	204	9.612	9.617	-0.005	93	48092	2.00	1.94	
105 4-Nitroaniline	138	9.622	9.622	0.000	84	22310	2.00	1.96	
106 Fluorene	166	9.633	9.633	0.000	95	102583	2.00	2.08	
108 4,6-Dinitro-2-methylphenol	198	9.654	9.654	0.000	84	30508	4.00	3.65	
109 N-Nitrosodiphenylamine	169	9.718	9.718	0.000	63	143210	4.00	4.21	
61 Azobenzene	77	9.761	9.761	0.000	99	99702	2.00	2.17	
111 1,2-Diphenylhydrazine	77	9.761	9.761	0.000	99	99702	2.00	2.17	
116 4-Bromophenyl phenyl ether	248	10.071	10.071	0.000	68	28113	2.00	2.04	
118 Hexachlorobenzene	284	10.151	10.156	-0.005	91	28493	2.00	1.90	
119 Atrazine	200	10.183	10.188	-0.005	92	25353	2.00	1.90	
122 Pentachlorophenol	266	10.322	10.327	-0.005	90	43404	4.00	4.23	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
121 n-Octadecane	57	10.333	10.338	-0.005	95	66596	2.00	2.14	
126 Phenanthrene	178	10.530	10.530	0.000	96	157847	2.00	2.11	
128 Anthracene	178	10.579	10.584	-0.005	97	153060	2.00	2.05	
130 Carbazole	167	10.723	10.722	0.001	96	132022	2.00	2.01	
132 Di-n-butyl phthalate	149	11.022	11.027	-0.005	100	147747	2.00	1.96	
137 Fluoranthene	202	11.834	11.839	-0.005	97	151430	2.00	1.90	
138 Benzidine	184	11.957	11.962	-0.005	99	52731	2.00	1.68	
139 Pyrene	202	12.138	12.143	-0.005	98	160209	2.00	2.10	
144 Butyl benzyl phthalate	149	13.009	13.009	0.000	98	58980	2.00	1.92	
149 3,3'-Dichlorobenzidine	252	13.976	13.981	-0.005	74	51162	2.00	1.89	
151 Bis(2-ethylhexyl) phthalat	149	14.030	14.040	-0.010	97	82430	2.00	1.94	
152 Benzo[a]anthracene	228	14.051	14.051	0.000	98	147520	2.00	2.04	
153 Chrysene	228	14.115	14.120	-0.005	97	136440	2.00	2.01	
156 Di-n-octyl phthalate	149	15.354	15.359	-0.005	99	161544	2.00	2.13	
157 7,12-Dimethylbenz(a)anthra	256	16.204	16.203	0.001	91	62316	2.00	1.97	
158 Benzo[b]fluoranthene	252	16.214	16.225	-0.011	97	143518	2.00	1.98	
159 Benzo[k]fluoranthene	252	16.273	16.284	-0.011	99	144106	2.00	1.99	
176 Benzo[e]pyrene	252	16.802	16.796	0.006	0	133992	2.00	1.98	
160 Benzo[a]pyrene	252	16.909	16.914	-0.005	77	137893	2.00	1.99	
163 Indeno[1,2,3-cd]pyrene	276	19.276	19.275	0.001	99	157033	2.00	1.99	
164 Dibenz(a,h)anthracene	278	19.302	19.313	-0.011	82	131409	2.00	1.96	
165 Benzo[g,h,i]perylene	276	19.874	19.890	-0.016	97	133873	2.00	1.95	
S 208 Methyl Phenols,Total	108				0		4.00	4.14	
S 206 Total Cresols	108				0		4.00	4.14	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

SVTAPSTD2.0i_00007 Amount Added: 1.00 Units: mL

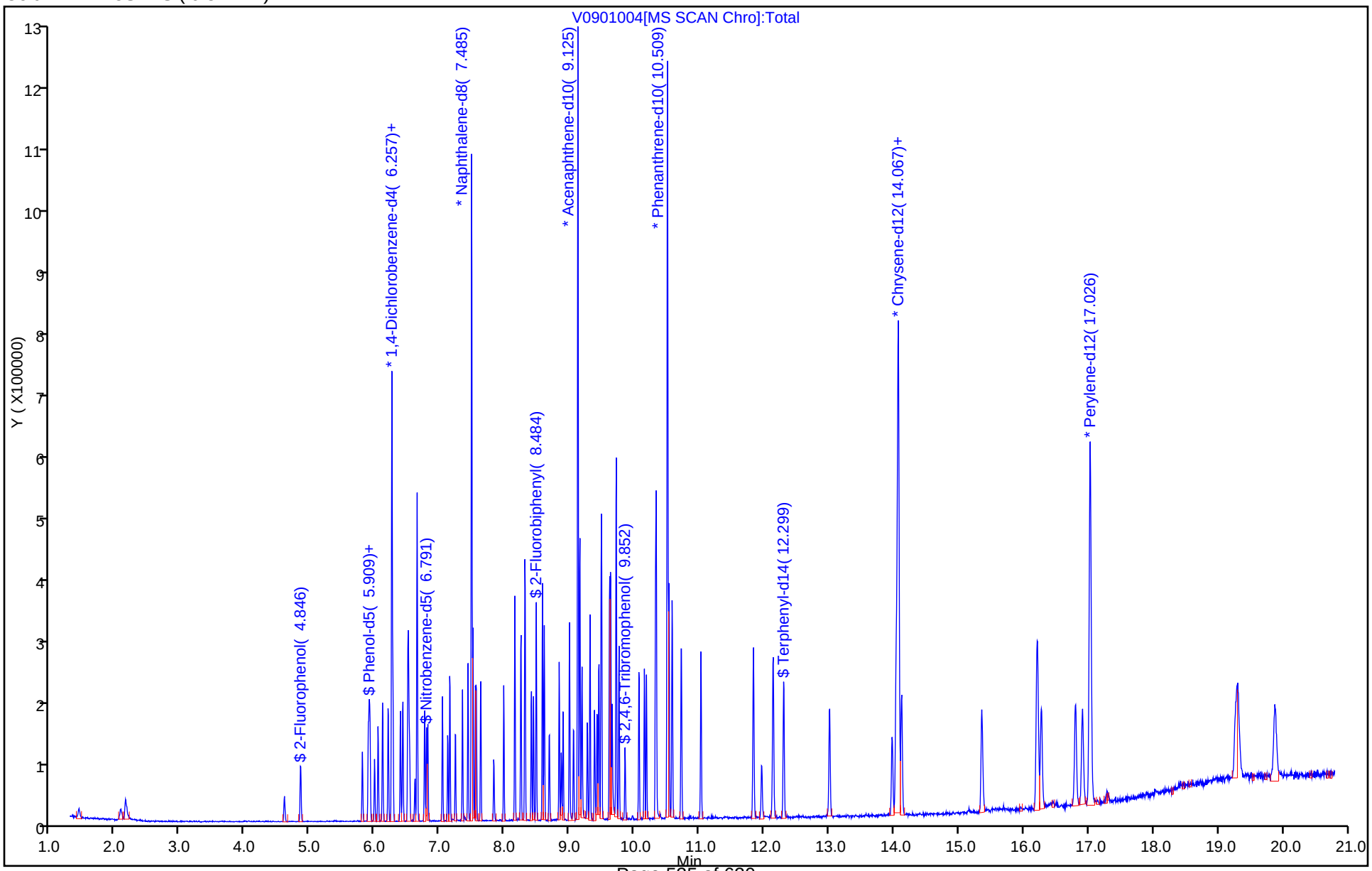
Report Date: 01-Sep-2015 04:26:31 Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CH731\20150831-8349.b\V0901004.D

Injection Date:	31-Aug-2015 14:08:30	Instrument ID:	CH731	Operator ID:	003200
Lims ID:	IC			Worklist Smp#:	4
Client ID:					
Injection Vol:	2.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	BNA_CH731	Limit Group:	BNA 8270D ICAL		

Column: Rxi-5SilMS (0.32 mm)



Manual Integration/User Assign Peak Report

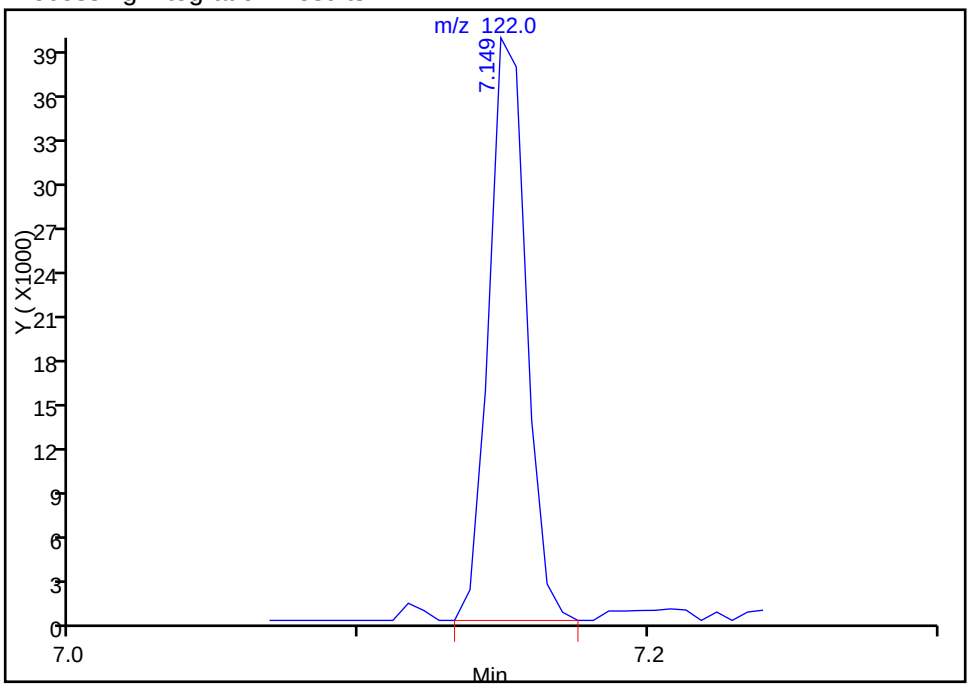
TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CH731\20150831-8349.b\V0901004.D
Injection Date: 31-Aug-2015 14:08:30 Instrument ID: CH731
Lims ID: IC
Client ID:
Operator ID: 003200 ALS Bottle#: 3 Worklist Smp#: 4
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: BNA_CH731 Limit Group: BNA 8270D ICAL
Column: Rxi-5SilMS (0.32 mm) Detector MS SCAN

56 Benzoic acid, CAS: 65-85-0

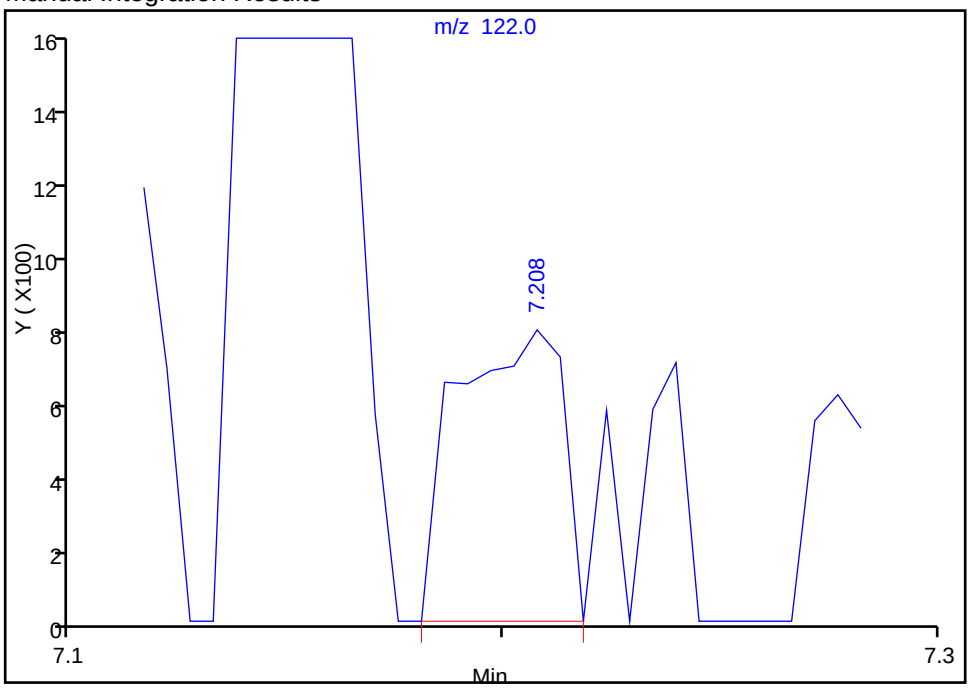
Processing Integration Results

RT: 7.15
Area: 35300
Amount: 4.639225
Amount Units: ng



Manual Integration Results

RT: 7.21
Area: 1307
Amount: 3.152212
Amount Units: ng



Reviewer: piccolinov, 01-Sep-2015 04:10:30
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CH731\20150831-8349.b\V0901005.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 31-Aug-2015 14:36:30 ALS Bottle#: 4 Worklist Smp#: 5
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 180-0008349-005
Operator ID: 003200 Instrument ID: CH731
Sublist: chrom-BNA_CH731*sub4

Method: \\ChromNA\Pittsburgh\ChromData\CH731\20150831-8349.b\BNA_CH731.m
Limit Group: BNA 8270D ICAL
Last Update: 01-Sep-2015 04:26:32 Calib Date: 31-Aug-2015 16:55:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CH731\20150831-8349.b\V0901010.D

Column 1 : Rxi-5SilMS (0.32 mm) Det: MS SCAN
Process Host: XAWRK024

First Level Reviewer: piccolinov Date: 01-Sep-2015 04:11:10

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.261	6.256	0.005	94	104088	8.00	8.00	
* 2 Naphthalene-d8	136	7.490	7.490	0.000	100	422371	8.00	8.00	
* 3 Acenaphthene-d10	164	9.130	9.130	0.000	92	261501	8.00	8.00	
* 4 Phenanthrene-d10	188	10.514	10.509	0.005	97	480103	8.00	8.00	
* 5 Chrysene-d12	240	14.082	14.072	0.010	97	515797	8.00	8.00	
* 6 Perylene-d12	264	17.037	17.031	0.005	97	474446	8.00	8.00	
$ 7 2-Fluorophenol	112	4.856	4.851	0.005	93	62258	4.00	4.06	
$ 8 Phenol-d5	99	5.898	5.893	0.005	95	84827	4.00	4.24	
$ 9 Nitrobenzene-d5	82	6.796	6.796	0.000	90	88028	4.00	4.28	
$ 10 2-Fluorobiphenyl	172	8.489	8.489	0.000	100	190403	4.00	4.17	
$ 11 2,4,6-Tribromophenol	330	9.862	9.857	0.005	90	24511	4.00	3.68	
$ 12 Terphenyl-d14	244	12.309	12.304	0.005	99	202747	4.00	4.14	
13 1,4-Dioxane	88	1.437	1.432	0.005	88	22493	4.00	4.26	
14 N-Nitrosodimethylamine	74	2.089	2.084	0.005	89	27865	4.00	4.15	
15 Pyridine	79	2.153	2.170	-0.017	94	55292	4.00	4.40	
22 Methyl methanesulfonate	80	4.605	4.600	0.005	90	36708	4.00	4.20	
26 Benzaldehyde	77	5.807	5.802	0.005	94	43874	4.00	4.23	
27 Phenol	94	5.914	5.909	0.005	100	94817	4.00	4.34	
28 Aniline	93	5.925	5.920	0.005	96	103745	4.00	4.21	
29 Bis(2-chloroethyl)ether	93	5.994	5.989	0.005	95	66318	4.00	4.39	
31 2-Chlorophenol	128	6.048	6.048	0.000	96	79641	4.00	4.30	
32 n-Decane	43	6.117	6.117	0.000	89	78321	4.00	4.43	
33 1,3-Dichlorobenzene	146	6.208	6.203	0.005	96	89430	4.00	4.21	
34 1,4-Dichlorobenzene	146	6.277	6.278	-0.001	92	91801	4.00	4.22	
36 Benzyl alcohol	108	6.395	6.390	0.005	89	48151	4.00	4.34	
37 1,2-Dichlorobenzene	146	6.432	6.427	0.005	95	89174	4.00	4.28	
38 2-Methylphenol	108	6.507	6.502	0.005	97	70753	4.00	4.40	
39 Indene	116	6.518	6.513	0.005	89	132693	4.00	4.26	
40 2,2'-oxybis[1-chloropropan	45	6.534	6.529	0.005	88	95463	4.00	4.31	
41 N-Nitrosopyrrolidine	100	6.614	6.614	0.000	82	29094	4.00	3.96	
44 N-Nitrosodi-n-propylamine	70	6.651	6.646	0.005	71	52581	4.00	4.45	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
43 Acetophenone	105	6.651	6.646	0.005	81	108645	4.00	4.45	
45 4-Methylphenol	108	6.651	6.652	-0.001	63	72549	4.00	4.28	
47 Hexachloroethane	117	6.769	6.764	0.005	92	38937	4.00	4.10	
48 Nitrobenzene	77	6.817	6.812	0.005	90	87150	4.00	4.34	
50 Isophorone	82	7.041	7.036	0.005	99	138999	4.00	4.22	
51 2-Nitrophenol	139	7.127	7.122	0.005	98	40619	4.00	4.01	
52 2,4-Dimethylphenol	107	7.154	7.154	0.000	99	84102	4.00	4.29	
56 Benzoic acid	122	7.191	7.213	-0.022	89	15551	4.00	4.56	M
55 Bis(2-chloroethoxy)methane	93	7.239	7.239	0.000	97	82356	4.00	4.14	
57 2,4-Dichlorophenol	162	7.351	7.346	0.005	94	71088	4.00	4.23	
59 1,2,4-Trichlorobenzene	180	7.437	7.437	0.000	93	85855	4.00	4.24	
60 Naphthalene	128	7.511	7.506	0.005	97	238651	4.00	4.15	
62 4-Chloroaniline	127	7.549	7.544	0.005	94	98566	4.00	4.15	
63 2,6-Dichlorophenol	162	7.565	7.560	0.005	96	69925	4.00	4.15	
64 Hexachlorobutadiene	225	7.634	7.629	0.005	96	54777	4.00	4.23	
67 Caprolactam	113	7.837	7.832	0.005	77	18977	4.00	3.75	
70 4-Chloro-3-methylphenol	107	7.987	7.987	0.000	95	69183	4.00	4.14	
72 2-Methylnaphthalene	142	8.158	8.158	0.000	92	172507	4.00	4.21	
75 1-Methylnaphthalene	142	8.254	8.249	0.005	93	153822	4.00	4.28	
76 Hexachlorocyclopentadiene	237	8.313	8.308	0.005	97	56673	4.00	4.03	
77 1,2,4,5-Tetrachlorobenzene	216	8.318	8.313	0.005	98	87870	4.00	4.23	
78 2,4,6-Trichlorophenol	196	8.414	8.409	0.005	94	54244	4.00	4.19	
79 2,4,5-Trichlorophenol	196	8.446	8.441	0.005	93	55772	4.00	4.11	
80 1,1'-Biphenyl	154	8.585	8.580	0.005	94	214141	4.00	4.24	
81 2-Chloronaphthalene	162	8.612	8.612	0.000	97	170202	4.00	4.29	
82 2-Nitroaniline	65	8.692	8.687	0.005	82	46947	4.00	4.19	
86 Dimethyl phthalate	163	8.842	8.842	0.000	97	177042	4.00	4.19	
87 1,3-Dinitrobenzene	168	8.874	8.874	0.000	88	25857	4.00	3.84	
88 2,6-Dinitrotoluene	165	8.906	8.901	0.005	95	40402	4.00	4.21	
89 Acenaphthylene	152	9.002	8.997	0.005	98	250435	4.00	4.11	
90 3-Nitroaniline	138	9.066	9.061	0.005	92	42653	4.00	4.15	
91 Acenaphthene	153	9.162	9.157	0.005	91	167192	4.00	4.33	
92 2,4-Dinitrophenol	184	9.162	9.168	-0.006	62	33546	8.00	7.38	
93 4-Nitrophenol	109	9.194	9.195	-0.001	83	54652	8.00	7.95	
94 2,4-Dinitrotoluene	165	9.280	9.275	0.005	91	51206	4.00	3.97	
95 Dibenzofuran	168	9.317	9.317	0.000	95	242079	4.00	4.21	
97 2,3,5,6-Tetrachlorophenol	232	9.387	9.387	0.000	93	49331	4.00	3.98	
99 2,3,4,6-Tetrachlorophenol	232	9.429	9.424	0.005	74	50343	4.00	3.97	
100 2-Naphthylamine	143	9.456	9.451	0.005	96	161622	4.00	4.13	
101 Diethyl phthalate	149	9.488	9.483	0.005	97	182244	4.00	4.12	
102 Hexadecane	57	9.499	9.494	0.005	96	121910	4.00	4.40	
104 4-Chlorophenyl phenyl ethe	204	9.616	9.617	-0.001	95	95483	4.00	4.02	
105 4-Nitroaniline	138	9.627	9.622	0.005	82	43917	4.00	4.04	
106 Fluorene	166	9.638	9.633	0.005	95	198272	4.00	4.21	
108 4,6-Dinitro-2-methylphenol	198	9.659	9.654	0.005	83	55789	8.00	6.82	
109 N-Nitrosodiphenylamine	169	9.723	9.718	0.005	63	278021	8.00	8.34	
61 Azobenzene	77	9.766	9.761	0.005	99	193083	4.00	4.29	
111 1,2-Diphenylhydrazine	77	9.766	9.761	0.005	99	193083	4.00	4.29	
116 4-Bromophenyl phenyl ether	248	10.076	10.071	0.005	67	55667	4.00	4.13	
118 Hexachlorobenzene	284	10.156	10.156	0.000	93	59184	4.00	4.03	
119 Atrazine	200	10.188	10.188	0.000	93	54428	4.00	4.16	
122 Pentachlorophenol	266	10.327	10.327	0.000	91	66577	8.00	6.62	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
121 n-Octadecane	57	10.337	10.338	-0.001	95	129797	4.00	4.34	
126 Phenanthrene	178	10.535	10.530	0.005	97	308622	4.00	4.22	
128 Anthracene	178	10.589	10.584	0.005	97	306661	4.00	4.20	
130 Carbazole	167	10.727	10.722	0.005	96	270667	4.00	4.21	
132 Di-n-butyl phthalate	149	11.032	11.027	0.005	100	303130	4.00	4.11	
137 Fluoranthene	202	11.844	11.839	0.005	97	319725	4.00	4.10	
138 Benzidine	184	11.972	11.962	0.010	99	118831	4.00	3.65	
139 Pyrene	202	12.148	12.143	0.005	98	337422	4.00	4.25	
144 Butyl benzyl phthalate	149	13.019	13.009	0.010	99	128551	4.00	4.02	
149 3,3'-Dichlorobenzidine	252	13.986	13.981	0.005	74	106814	4.00	3.80	
151 Bis(2-ethylhexyl) phthalat	149	14.040	14.040	0.000	97	181356	4.00	4.10	
152 Benzo[a]anthracene	228	14.061	14.051	0.010	98	312044	4.00	4.15	
153 Chrysene	228	14.130	14.120	0.010	97	293847	4.00	4.17	
156 Di-n-octyl phthalate	149	15.370	15.359	0.011	100	278022	4.00	3.63	
157 7,12-Dimethylbenz(a)anthra	256	16.219	16.203	0.016	90	127997	4.00	4.01	
158 Benzo[b]fluoranthene	252	16.230	16.225	0.005	98	304513	4.00	4.14	
159 Benzo[k]fluoranthene	252	16.283	16.284	-0.001	99	309524	4.00	4.21	
176 Benzo[e]pyrene	252	16.812	16.796	0.016	0	281151	4.00	4.11	
160 Benzo[a]pyrene	252	16.924	16.914	0.010	78	284194	4.00	4.06	
163 Indeno[1,2,3-cd]pyrene	276	19.286	19.275	0.011	98	320102	4.00	4.00	
164 Dibenz(a,h)anthracene	278	19.318	19.313	0.005	83	269706	4.00	3.98	
165 Benzo[g,h,i]perylene	276	19.895	19.890	0.005	98	281951	4.00	4.05	
S 208 Methyl Phenols,Total	108				0		8.00	8.67	
S 206 Total Cresols	108				0		8.00	8.67	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

SVTAPSTD4.0i_00008 Amount Added: 1.00 Units: mL

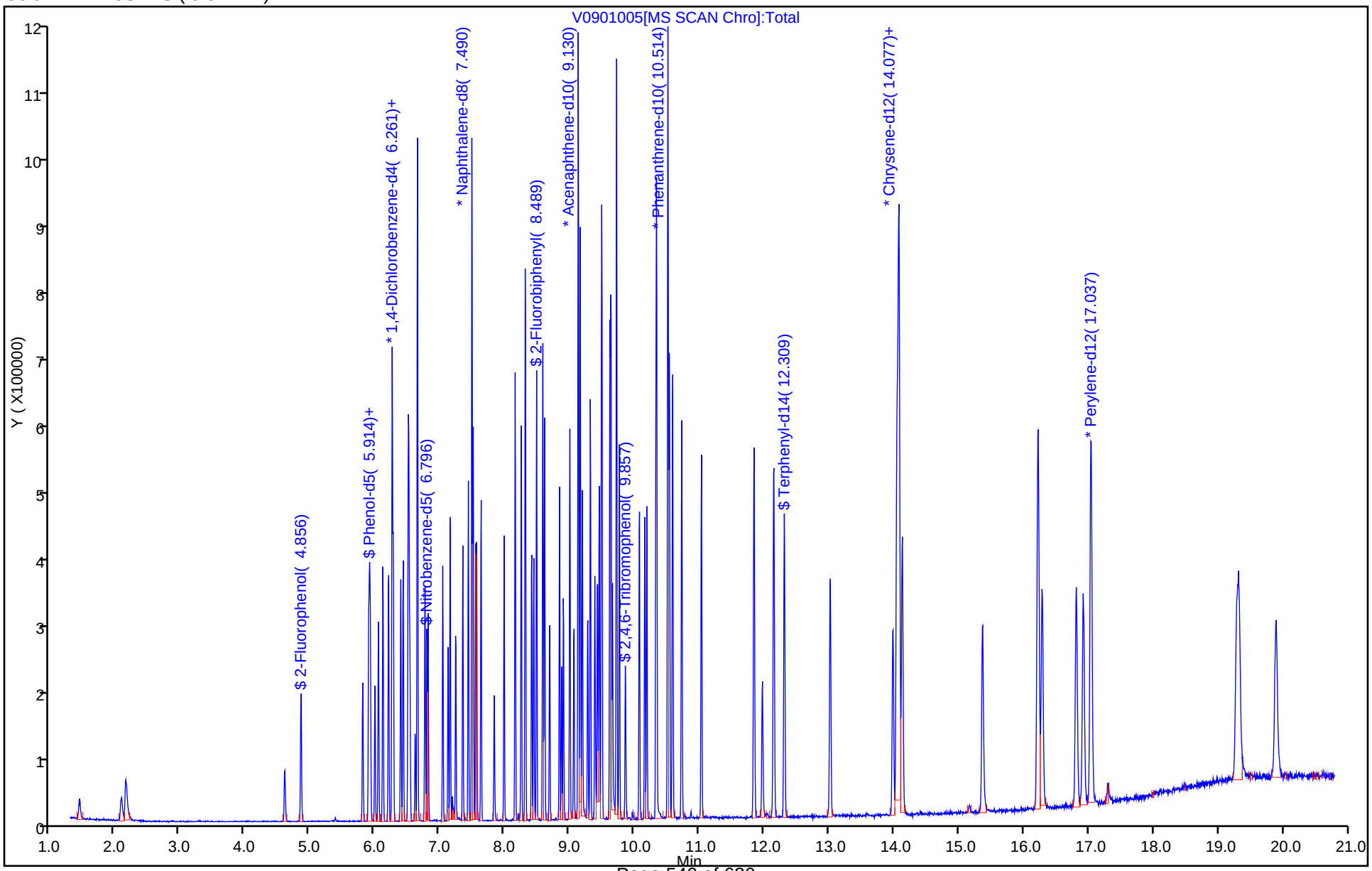
Report Date: 01-Sep-2015 04:26:34 Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CH731\20150831-8349.b\V0901005.D

Injection Date:	31-Aug-2015 14:36:30	Instrument ID:	CH731	Operator ID:	003200
Lims ID:	IC			Worklist Smp#:	5
Client ID:					
Injection Vol:	2.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	BNA_CH731	Limit Group:	BNA 8270D ICAL		

Column: Rxi-5SilMS (0.32 mm)



Manual Integration/User Assign Peak Report

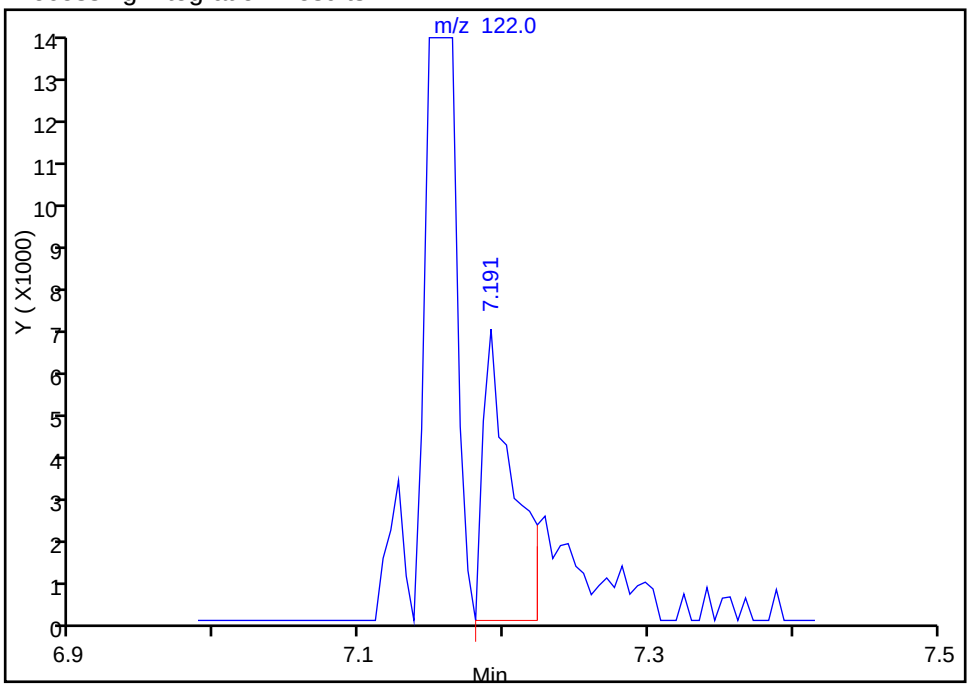
TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CH731\20150831-8349.b\V0901005.D
Injection Date: 31-Aug-2015 14:36:30 Instrument ID: CH731
Lims ID: IC
Client ID:
Operator ID: 003200 ALS Bottle#: 4 Worklist Smp#: 5
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: BNA_CH731 Limit Group: BNA 8270D ICAL
Column: Rxi-5SilMS (0.32 mm) Detector MS SCAN

56 Benzoic acid, CAS: 65-85-0

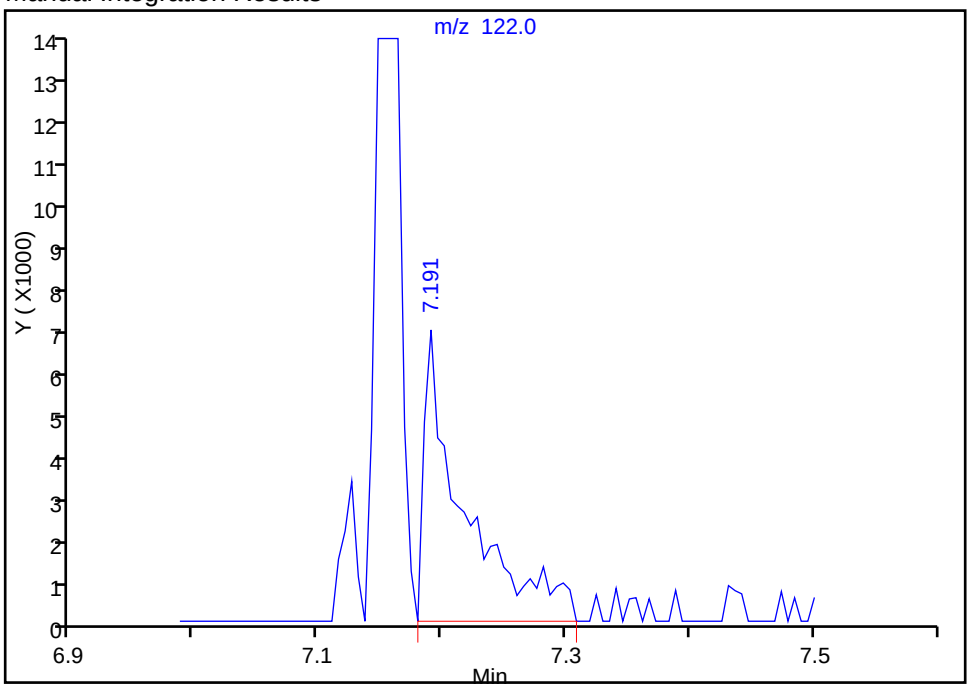
Processing Integration Results

RT: 7.19
Area: 9886
Amount: 1.844735
Amount Units: ng



Manual Integration Results

RT: 7.19
Area: 15551
Amount: 4.564739
Amount Units: ng



Reviewer: piccolinov, 01-Sep-2015 04:11:10
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CH731\20150831-8349.b\V0901006.D
Lims ID: ICIS
Client ID:
Sample Type: ICIS Calib Level: 4
Inject. Date: 31-Aug-2015 15:03:30 ALS Bottle#: 5 Worklist Smp#: 6
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 180-0008349-006
Operator ID: 003200 Instrument ID: CH731
Sublist: chrom-BNA_CH731*sub4

Method: \\ChromNA\Pittsburgh\ChromData\CH731\20150831-8349.b\BNA_CH731.m
Limit Group: BNA 8270D ICAL
Last Update: 01-Sep-2015 04:26:35 Calib Date: 31-Aug-2015 16:55:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CH731\20150831-8349.b\V0901010.D

Column 1 : Rxi-5SilMS (0.32 mm) Det: MS SCAN
Process Host: XAWRK024

First Level Reviewer: piccolinov Date: 01-Sep-2015 04:12:02

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.261	6.261	0.000	93	102411	8.00	8.00	
* 2 Naphthalene-d8	136	7.490	7.490	0.000	100	424311	8.00	8.00	
* 3 Acenaphthene-d10	164	9.130	9.130	0.000	93	262115	8.00	8.00	
* 4 Phenanthrene-d10	188	10.508	10.508	0.000	97	479159	8.00	8.00	
* 5 Chrysene-d12	240	14.071	14.071	0.000	97	507170	8.00	8.00	
* 6 Perylene-d12	264	17.031	17.031	0.000	98	481094	8.00	8.00	
$ 7 2-Fluorophenol	112	4.851	4.851	0.000	93	157305	10.0	10.4	
$ 8 Phenol-d5	99	5.898	5.898	0.000	95	212190	10.0	10.8	
$ 9 Nitrobenzene-d5	82	6.795	6.795	0.000	90	216601	10.0	10.5	
$ 10 2-Fluorobiphenyl	172	8.484	8.484	0.000	99	476787	10.0	10.4	
$ 11 2,4,6-Tribromophenol	330	9.856	9.856	0.000	91	64980	10.0	9.79	
$ 12 Terphenyl-d14	244	12.303	12.303	0.000	99	504747	10.0	10.5	
13 1,4-Dioxane	88	1.437	1.437	0.000	92	55565	10.0	10.7	
14 N-Nitrosodimethylamine	74	2.078	2.078	0.000	87	71109	10.0	10.8	
15 Pyridine	79	2.142	2.142	0.000	95	133039	10.0	10.8	
22 Methyl methanesulfonate	80	4.600	4.600	0.000	90	94603	10.0	11.0	
26 Benzaldehyde	77	5.802	5.802	0.000	93	107323	10.0	10.5	
27 Phenol	94	5.909	5.909	0.000	96	230637	10.0	10.7	
28 Aniline	93	5.919	5.919	0.000	98	263241	10.0	10.9	
29 Bis(2-chloroethyl)ether	93	5.994	5.994	0.000	94	157984	10.0	10.6	
31 2-Chlorophenol	128	6.048	6.048	0.000	96	193353	10.0	10.6	
32 n-Decane	43	6.117	6.117	0.000	88	185321	10.0	10.7	
33 1,3-Dichlorobenzene	146	6.202	6.202	0.000	97	218573	10.0	10.5	
34 1,4-Dichlorobenzene	146	6.277	6.277	0.000	93	226954	10.0	10.6	
36 Benzyl alcohol	108	6.389	6.389	0.000	89	116255	10.0	10.7	
37 1,2-Dichlorobenzene	146	6.427	6.427	0.000	95	217421	10.0	10.6	
38 2-Methylphenol	108	6.507	6.507	0.000	96	169780	10.0	10.7	
39 Indene	116	6.518	6.518	0.000	90	325789	10.0	10.6	
40 2,2'-oxybis[1-chloropropan	45	6.534	6.534	0.000	91	237680	10.0	10.9	
41 N-Nitrosopyrrolidine	100	6.614	6.614	0.000	85	75398	10.0	10.4	
44 N-Nitrosodi-n-propylamine	70	6.646	6.646	0.000	70	126465	10.0	10.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
43 Acetophenone	105	6.646	6.646	0.000	81	259244	10.0	10.8	
45 4-Methylphenol	108	6.651	6.651	0.000	71	180950	10.0	10.8	
47 Hexachloroethane	117	6.763	6.763	0.000	95	97090	10.0	10.4	
48 Nitrobenzene	77	6.811	6.811	0.000	90	211409	10.0	10.5	
50 Isophorone	82	7.041	7.041	0.000	99	342824	10.0	10.4	
51 2-Nitrophenol	139	7.121	7.121	0.000	98	106487	10.0	10.5	
52 2,4-Dimethylphenol	107	7.153	7.153	0.000	98	209203	10.0	10.6	
56 Benzoic acid	122	7.196	7.196	0.000	81	55532	10.0	8.50	M
55 Bis(2-chloroethoxy)methane	93	7.239	7.239	0.000	97	208359	10.0	10.4	
57 2,4-Dichlorophenol	162	7.346	7.346	0.000	95	175582	10.0	10.4	
59 1,2,4-Trichlorobenzene	180	7.436	7.436	0.000	94	207252	10.0	10.2	
60 Naphthalene	128	7.511	7.511	0.000	97	596566	10.0	10.3	
62 4-Chloroaniline	127	7.549	7.549	0.000	96	252553	10.0	10.6	
63 2,6-Dichlorophenol	162	7.559	7.559	0.000	96	178546	10.0	10.5	
64 Hexachlorobutadiene	225	7.629	7.629	0.000	96	135720	10.0	10.4	
67 Caprolactam	113	7.837	7.837	0.000	78	50427	10.0	9.92	
70 4-Chloro-3-methylphenol	107	7.987	7.987	0.000	96	174727	10.0	10.4	
72 2-Methylnaphthalene	142	8.158	8.158	0.000	91	420716	10.0	10.2	
75 1-Methylnaphthalene	142	8.248	8.248	0.000	92	363823	10.0	10.1	
76 Hexachlorocyclopentadiene	237	8.307	8.307	0.000	97	149399	10.0	10.6	
77 1,2,4,5-Tetrachlorobenzene	216	8.313	8.313	0.000	98	216369	10.0	10.4	
78 2,4,6-Trichlorophenol	196	8.409	8.409	0.000	93	135055	10.0	10.4	
79 2,4,5-Trichlorophenol	196	8.441	8.441	0.000	93	142254	10.0	10.5	
80 1,1'-Biphenyl	154	8.580	8.580	0.000	95	531753	10.0	10.5	
81 2-Chloronaphthalene	162	8.612	8.612	0.000	97	411214	10.0	10.3	
82 2-Nitroaniline	65	8.687	8.687	0.000	82	121138	10.0	10.8	
86 Dimethyl phthalate	163	8.841	8.841	0.000	98	433347	10.0	10.2	
87 1,3-Dinitrobenzene	168	8.873	8.873	0.000	86	67750	10.0	10.0	
88 2,6-Dinitrotoluene	165	8.900	8.900	0.000	94	100319	10.0	10.4	
89 Acenaphthylene	152	8.996	8.996	0.000	98	636764	10.0	10.4	
90 3-Nitroaniline	138	9.060	9.060	0.000	91	109177	10.0	10.6	
91 Acenaphthene	153	9.157	9.157	0.000	90	413191	10.0	10.7	
92 2,4-Dinitrophenol	184	9.157	9.157	0.000	79	110082	20.0	18.5	
93 4-Nitrophenol	109	9.194	9.194	0.000	89	144007	20.0	20.9	
94 2,4-Dinitrotoluene	165	9.274	9.274	0.000	93	135793	10.0	10.5	
95 Dibenzofuran	168	9.317	9.317	0.000	96	598462	10.0	10.4	
97 2,3,5,6-Tetrachlorophenol	232	9.381	9.381	0.000	93	125764	10.0	10.1	
99 2,3,4,6-Tetrachlorophenol	232	9.424	9.424	0.000	72	131643	10.0	10.4	
100 2-Naphthylamine	143	9.450	9.450	0.000	97	415085	10.0	10.6	
101 Diethyl phthalate	149	9.488	9.488	0.000	98	456132	10.0	10.3	
102 Hexadecane	57	9.493	9.493	0.000	95	304348	10.0	10.9	
104 4-Chlorophenyl phenyl ethe	204	9.616	9.616	0.000	93	246798	10.0	10.4	
105 4-Nitroaniline	138	9.627	9.627	0.000	83	114302	10.0	10.5	
106 Fluorene	166	9.632	9.632	0.000	94	497068	10.0	10.5	
108 4,6-Dinitro-2-methylphenol	198	9.659	9.659	0.000	86	165565	20.0	20.3	
109 N-Nitrosodiphenylamine	169	9.718	9.718	0.000	63	692525	20.0	20.8	
61 Azobenzene	77	9.760	9.760	0.000	100	485927	10.0	10.8	
111 1,2-Diphenylhydrazine	77	9.760	9.760	0.000	99	485927	10.0	10.8	
116 4-Bromophenyl phenyl ether	248	10.070	10.070	0.000	67	141647	10.0	10.5	
118 Hexachlorobenzene	284	10.156	10.156	0.000	93	148037	10.0	10.1	
119 Atrazine	200	10.188	10.188	0.000	93	140905	10.0	10.8	
122 Pentachlorophenol	266	10.327	10.327	0.000	91	181579	20.0	18.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
121 n-Octadecane	57	10.337	10.337	0.000	96	324076	10.0	11.0	
126 Phenanthrene	178	10.535	10.535	0.000	97	751020	10.0	10.3	
128 Anthracene	178	10.583	10.583	0.000	97	764639	10.0	10.5	
130 Carbazole	167	10.722	10.722	0.000	96	669248	10.0	10.4	
132 Di-n-butyl phthalate	149	11.026	11.026	0.000	100	776911	10.0	10.5	
137 Fluoranthene	202	11.838	11.838	0.000	97	808503	10.0	10.4	
138 Benzidine	184	11.967	11.967	0.000	99	339390	10.0	10.6	
139 Pyrene	202	12.143	12.143	0.000	98	842830	10.0	10.8	
144 Butyl benzyl phthalate	149	13.014	13.014	0.000	99	335533	10.0	10.7	
149 3,3'-Dichlorobenzidine	252	13.975	13.975	0.000	74	271127	10.0	9.81	
151 Bis(2-ethylhexyl) phthalat	149	14.034	14.034	0.000	96	466768	10.0	10.7	
152 Benzo[a]anthracene	228	14.055	14.055	0.000	99	769643	10.0	10.4	
153 Chrysene	228	14.125	14.125	0.000	97	721253	10.0	10.4	
156 Di-n-octyl phthalate	149	15.359	15.359	0.000	99	761128	10.0	9.80	
157 7,12-Dimethylbenz(a)anthra	256	16.208	16.208	0.000	90	343910	10.0	10.6	
158 Benzo[b]fluoranthene	252	16.224	16.224	0.000	98	779148	10.0	10.5	
159 Benzo[k]fluoranthene	252	16.278	16.278	0.000	99	794316	10.0	10.7	
176 Benzo[e]pyrene	252	16.807	16.807	0.000	0	723563	10.0	10.4	
160 Benzo[a]pyrene	252	16.913	16.913	0.000	77	739933	10.0	10.4	
163 Indeno[1,2,3-cd]pyrene	276	19.275	19.275	0.000	99	848365	10.0	10.5	
164 Dibenz(a,h)anthracene	278	19.312	19.312	0.000	87	706557	10.0	10.3	
165 Benzo[g,h,i]perylene	276	19.889	19.889	0.000	98	721609	10.0	10.2	
S 208 Methyl Phenols,Total	108				0		20.0	21.6	
S 206 Total Cresols	108				0		20.0	21.6	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

SVTAPSTD10i_00124 Amount Added: 1.00 Units: mL

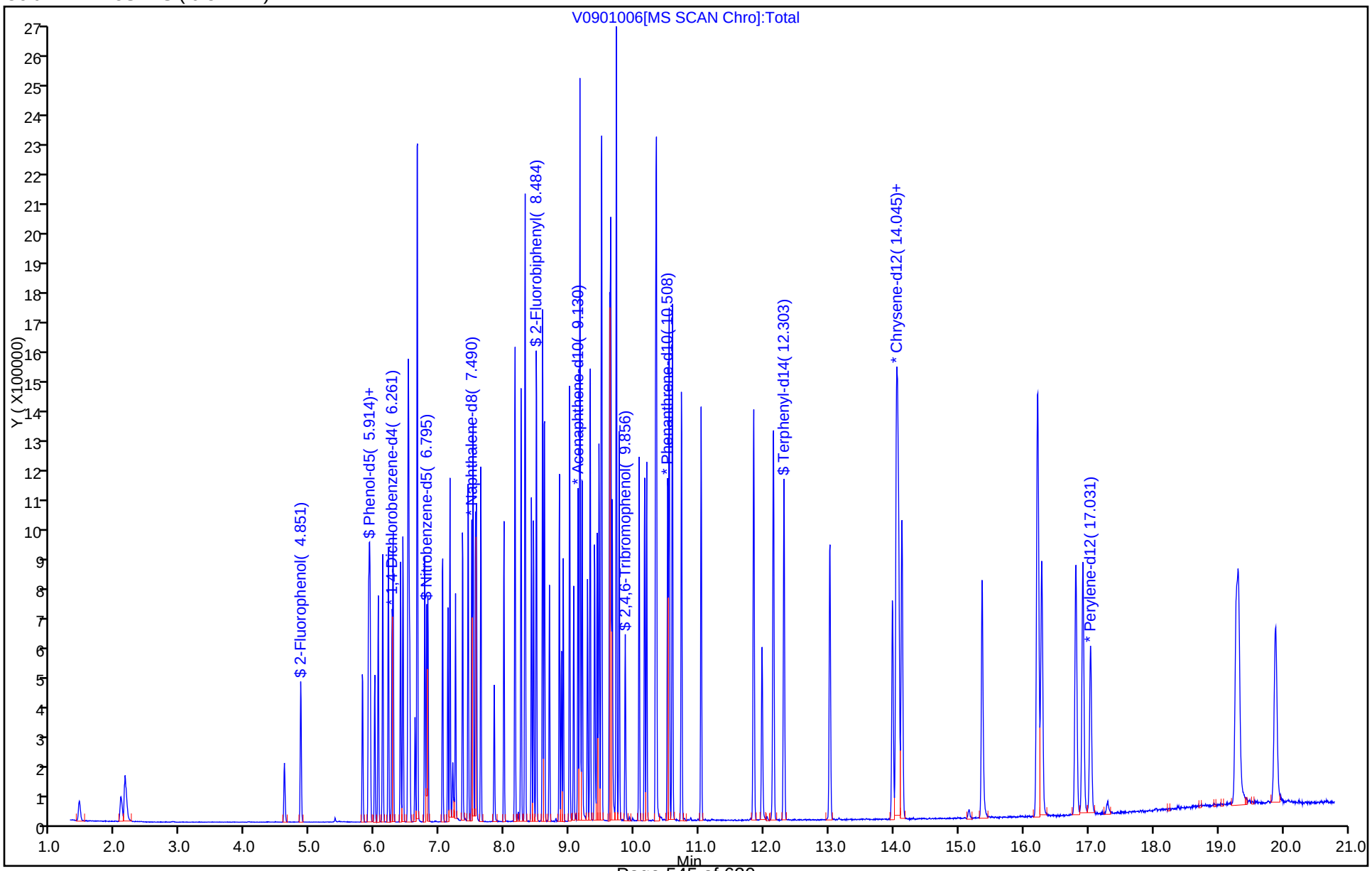
Report Date: 01-Sep-2015 04:26:37 Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CH731\20150831-8349.b\V0901006.D

Injection Date:	31-Aug-2015 15:03:30	Instrument ID:	CH731	Operator ID:	003200
Lims ID:	ICIS			Worklist Smp#:	6
Client ID:					
Injection Vol:	2.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	BNA_CH731	Limit Group:	BNA 8270D ICAL		

Column: Rxi-5SilMS (0.32 mm)



Manual Integration/User Assign Peak Report

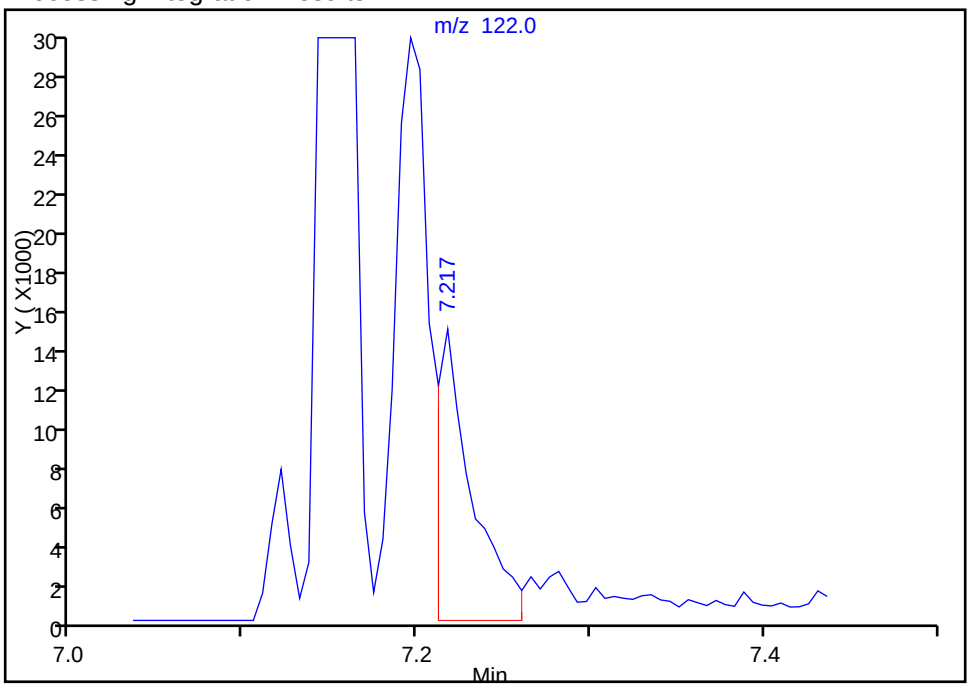
TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CH731\20150831-8349.b\V0901006.D
Injection Date: 31-Aug-2015 15:03:30 Instrument ID: CH731
Lims ID: ICIS
Client ID:
Operator ID: 003200 ALS Bottle#: 5 Worklist Smp#: 6
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: BNA_CH731 Limit Group: BNA 8270D ICAL
Column: Rxi-5SilMS (0.32 mm) Detector MS SCAN

56 Benzoic acid, CAS: 65-85-0

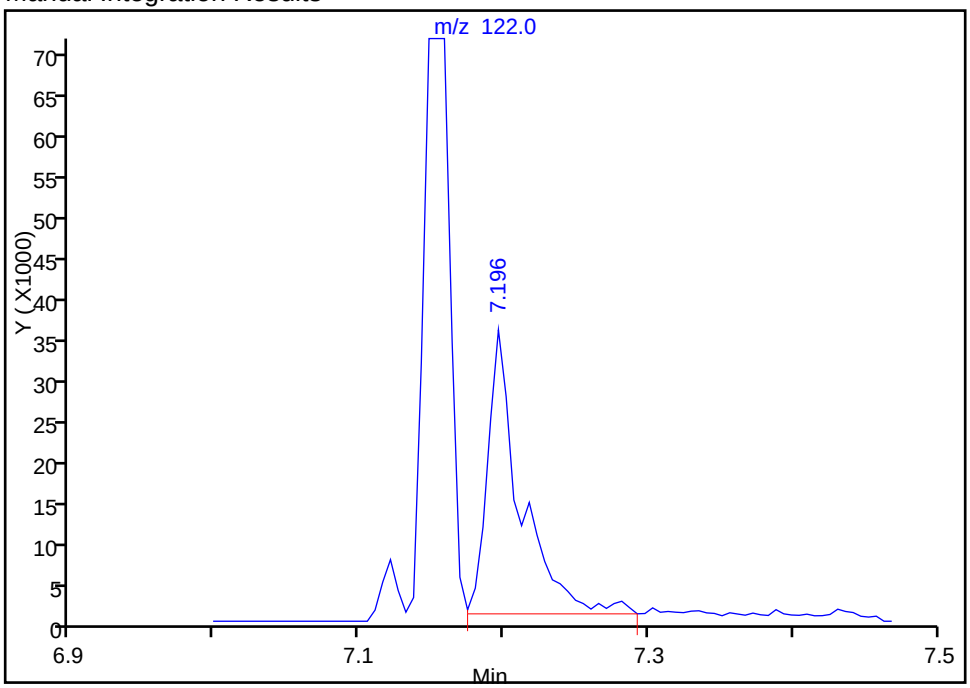
Processing Integration Results

RT: 7.22
Area: 20360
Amount: 3.660887
Amount Units: ng



Manual Integration Results

RT: 7.20
Area: 55532
Amount: 8.496086
Amount Units: ng



Reviewer: piccolinov, 01-Sep-2015 04:12:02
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CH731\20150831-8349.b\V0901007.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 31-Aug-2015 15:31:30 ALS Bottle#: 6 Worklist Smp#: 7
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 180-0008349-007
Operator ID: 003200 Instrument ID: CH731
Sublist: chrom-BNA_CH731*sub4

Method: \\ChromNA\Pittsburgh\ChromData\CH731\20150831-8349.b\BNA_CH731.m
Limit Group: BNA 8270D ICAL
Last Update: 01-Sep-2015 04:26:38 Calib Date: 31-Aug-2015 16:55:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CH731\20150831-8349.b\V0901010.D

Column 1 : Rxi-5SilMS (0.32 mm) Det: MS SCAN
Process Host: XAWRK024

First Level Reviewer: piccolinov Date: 01-Sep-2015 04:12:44

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.266	6.261	0.005	94	104121	8.00	8.00	
* 2 Naphthalene-d8	136	7.495	7.490	0.005	100	415390	8.00	8.00	
* 3 Acenaphthene-d10	164	9.135	9.130	0.005	92	265063	8.00	8.00	
* 4 Phenanthrene-d10	188	10.519	10.508	0.011	97	493859	8.00	8.00	
* 5 Chrysene-d12	240	14.087	14.071	0.016	97	534907	8.00	8.00	
* 6 Perylene-d12	264	17.047	17.031	0.016	98	517173	8.00	8.00	
$ 7 2-Fluorophenol	112	4.856	4.851	0.005	92	308134	20.0	20.1	
$ 8 Phenol-d5	99	5.903	5.898	0.005	95	408662	20.0	20.4	
$ 9 Nitrobenzene-d5	82	6.800	6.795	0.005	91	416340	20.0	20.6	
$ 10 2-Fluorobiphenyl	172	8.489	8.484	0.005	99	937705	20.0	20.2	
$ 11 2,4,6-Tribromophenol	330	9.861	9.856	0.005	93	147244	20.0	21.5	
$ 12 Terphenyl-d14	244	12.314	12.303	0.011	100	1077468	20.0	21.2	
13 1,4-Dioxane	88	1.432	1.437	-0.005	91	105203	20.0	19.9	
14 N-Nitrosodimethylamine	74	2.078	2.078	0.000	89	144862	20.0	21.6	
15 Pyridine	79	2.137	2.142	-0.005	96	262838	20.0	20.9	
22 Methyl methanesulfonate	80	4.599	4.600	-0.001	89	179632	20.0	20.6	
26 Benzaldehyde	77	5.807	5.802	0.005	93	206688	20.0	19.9	
27 Phenol	94	5.914	5.909	0.005	96	441274	20.0	20.2	
28 Aniline	93	5.924	5.919	0.005	94	507890	20.0	20.6	
29 Bis(2-chloroethyl)ether	93	5.999	5.994	0.005	95	304156	20.0	20.1	
31 2-Chlorophenol	128	6.053	6.048	0.005	96	374694	20.0	20.2	
32 n-Decane	43	6.122	6.117	0.005	89	364217	20.0	20.6	
33 1,3-Dichlorobenzene	146	6.207	6.202	0.005	97	427222	20.0	20.1	
34 1,4-Dichlorobenzene	146	6.282	6.277	0.005	92	432346	20.0	19.9	
36 Benzyl alcohol	108	6.394	6.389	0.005	89	225733	20.0	20.4	
37 1,2-Dichlorobenzene	146	6.432	6.427	0.005	96	417384	20.0	20.0	
38 2-Methylphenol	108	6.512	6.507	0.005	97	326132	20.0	20.3	
39 Indene	116	6.523	6.518	0.005	91	632252	20.0	20.3	
40 2,2'-oxybis[1-chloropropan	45	6.533	6.534	-0.001	90	447186	20.0	20.2	
41 N-Nitrosopyrrolidine	100	6.624	6.614	0.010	86	147255	20.0	20.0	
44 N-Nitrosodi-n-propylamine	70	6.651	6.646	0.005	71	241584	20.0	20.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
43 Acetophenone	105	6.651	6.646	0.005	81	484244	20.0	19.8	
45 4-Methylphenol	108	6.656	6.651	0.005	70	340648	20.0	20.1	
47 Hexachloroethane	117	6.768	6.763	0.005	92	193936	20.0	20.4	
48 Nitrobenzene	77	6.816	6.811	0.005	89	407395	20.0	20.6	
50 Isophorone	82	7.046	7.041	0.005	99	682023	20.0	21.0	
51 2-Nitrophenol	139	7.126	7.121	0.005	98	210297	20.0	21.1	
52 2,4-Dimethylphenol	107	7.158	7.153	0.005	98	402567	20.0	20.9	
56 Benzoic acid	122	7.217	7.196	0.021	87	164640	20.0	19.6	
55 Bis(2-chloroethoxy)methane	93	7.244	7.239	0.005	97	408194	20.0	20.9	
57 2,4-Dichlorophenol	162	7.356	7.346	0.010	95	346426	20.0	20.9	
59 1,2,4-Trichlorobenzene	180	7.441	7.436	0.005	94	402160	20.0	20.2	
60 Naphthalene	128	7.516	7.511	0.005	97	1159009	20.0	20.5	
62 4-Chloroaniline	127	7.554	7.549	0.005	96	486250	20.0	20.8	
63 2,6-Dichlorophenol	162	7.564	7.559	0.005	97	342783	20.0	20.7	
64 Hexachlorobutadiene	225	7.634	7.629	0.005	96	267889	20.0	21.0	
67 Caprolactam	113	7.847	7.837	0.010	77	101850	20.0	20.5	
70 4-Chloro-3-methylphenol	107	7.992	7.987	0.005	96	344404	20.0	21.0	
72 2-Methylnaphthalene	142	8.163	8.158	0.005	92	816700	20.0	20.3	
75 1-Methylnaphthalene	142	8.253	8.248	0.005	93	711948	20.0	20.1	
76 Hexachlorocyclopentadiene	237	8.312	8.307	0.005	97	302691	20.0	21.2	
77 1,2,4,5-Tetrachlorobenzene	216	8.318	8.313	0.005	98	422134	20.0	20.0	
78 2,4,6-Trichlorophenol	196	8.414	8.409	0.005	92	267261	20.0	20.4	
79 2,4,5-Trichlorophenol	196	8.451	8.441	0.010	93	294500	20.0	21.4	
80 1,1'-Biphenyl	154	8.585	8.580	0.005	95	1040543	20.0	20.3	
81 2-Chloronaphthalene	162	8.617	8.612	0.005	97	808559	20.0	20.1	
82 2-Nitroaniline	65	8.692	8.687	0.006	83	237605	20.0	20.9	
86 Dimethyl phthalate	163	8.846	8.841	0.005	98	870830	20.0	20.3	
87 1,3-Dinitrobenzene	168	8.879	8.873	0.005	86	144305	20.0	21.2	
88 2,6-Dinitrotoluene	165	8.905	8.900	0.005	94	204627	20.0	21.0	
89 Acenaphthylene	152	9.007	8.996	0.011	98	1266666	20.0	20.5	
90 3-Nitroaniline	138	9.065	9.060	0.005	93	223742	20.0	21.5	
91 Acenaphthene	153	9.162	9.157	0.005	89	805607	20.0	20.6	
92 2,4-Dinitrophenol	184	9.162	9.157	0.005	84	249612	40.0	38.5	
93 4-Nitrophenol	109	9.199	9.194	0.005	85	300056	40.0	43.1	
94 2,4-Dinitrotoluene	165	9.279	9.274	0.005	92	280619	20.0	21.5	
95 Dibenzofuran	168	9.322	9.317	0.005	96	1194756	20.0	20.5	
97 2,3,5,6-Tetrachlorophenol	232	9.391	9.381	0.010	93	269363	20.0	21.4	
99 2,3,4,6-Tetrachlorophenol	232	9.429	9.424	0.005	72	272412	20.0	21.2	
100 2-Naphthylamine	143	9.455	9.450	0.005	96	829799	20.0	20.9	
101 Diethyl phthalate	149	9.493	9.488	0.005	98	912137	20.0	20.3	
102 Hexadecane	57	9.498	9.493	0.005	96	582121	20.0	21.4	
104 4-Chlorophenyl phenyl ethe	204	9.621	9.616	0.005	93	492206	20.0	20.5	
105 4-Nitroaniline	138	9.632	9.627	0.005	84	233917	20.0	21.2	
106 Fluorene	166	9.637	9.632	0.005	94	989672	20.0	20.8	
108 4,6-Dinitro-2-methylphenol	198	9.664	9.659	0.005	87	365342	40.0	43.4	
109 N-Nitrosodiphenylamine	169	9.728	9.718	0.010	62	1398657	40.0	40.8	
61 Azobenzene	77	9.771	9.760	0.011	99	965418	20.0	20.8	
111 1,2-Diphenylhydrazine	77	9.771	9.760	0.011	98	965418	20.0	20.8	
116 4-Bromophenyl phenyl ether	248	10.075	10.070	0.005	66	291000	20.0	21.0	
118 Hexachlorobenzene	284	10.161	10.156	0.005	94	315515	20.0	20.9	
119 Atrazine	200	10.193	10.188	0.005	94	290220	20.0	21.6	
122 Pentachlorophenol	266	10.332	10.327	0.005	91	404974	40.0	39.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
121 n-Octadecane	57	10.342	10.337	0.005	96	634923	20.0	21.2	
126 Phenanthrene	178	10.540	10.535	0.005	97	1547520	20.0	20.6	
128 Anthracene	178	10.588	10.583	0.005	97	1549689	20.0	20.7	
130 Carbazole	167	10.732	10.722	0.010	96	1371651	20.0	20.8	
132 Di-n-butyl phthalate	149	11.031	11.026	0.005	100	1611079	20.0	21.2	
137 Fluoranthene	202	11.843	11.838	0.005	97	1656336	20.0	20.6	
138 Benzidine	184	11.972	11.967	0.005	99	725455	20.0	21.5	
139 Pyrene	202	12.148	12.143	0.005	98	1728923	20.0	21.0	
144 Butyl benzyl phthalate	149	13.019	13.014	0.005	98	708523	20.0	21.4	
149 3,3'-Dichlorobenzidine	252	13.991	13.975	0.016	74	622565	20.0	21.4	
151 Bis(2-ethylhexyl) phthalat	149	14.044	14.034	0.010	96	990284	20.0	21.6	
152 Benzo[a]anthracene	228	14.066	14.055	0.011	99	1598686	20.0	20.5	
153 Chrysene	228	14.135	14.125	0.010	97	1481921	20.0	20.3	
156 Di-n-octyl phthalate	149	15.369	15.359	0.010	99	1669687	20.0	20.0	
157 7,12-Dimethylbenz(a)anthra	256	16.224	16.208	0.016	93	730487	20.0	21.0	
158 Benzo[b]fluoranthene	252	16.240	16.224	0.016	97	1656570	20.0	20.7	
159 Benzo[k]fluoranthene	252	16.293	16.278	0.015	99	1684888	20.0	21.0	
176 Benzo[e]pyrene	252	16.822	16.807	0.015	0	1563201	20.0	21.0	
160 Benzo[a]pyrene	252	16.929	16.913	0.016	77	1575640	20.0	20.7	
163 Indeno[1,2,3-cd]pyrene	276	19.296	19.275	0.021	99	1846211	20.0	21.2	
164 Dibenz(a,h)anthracene	278	19.333	19.312	0.021	88	1567050	20.0	21.2	
165 Benzo[g,h,i]perylene	276	19.905	19.889	0.016	98	1577795	20.0	20.8	
S 208 Methyl Phenols,Total	108				0		40.0	40.3	
S 206 Total Cresols	108				0		40.0	40.3	

Reagents:

SVTAPSTD20i_00007 Amount Added: 1.00 Units: mL

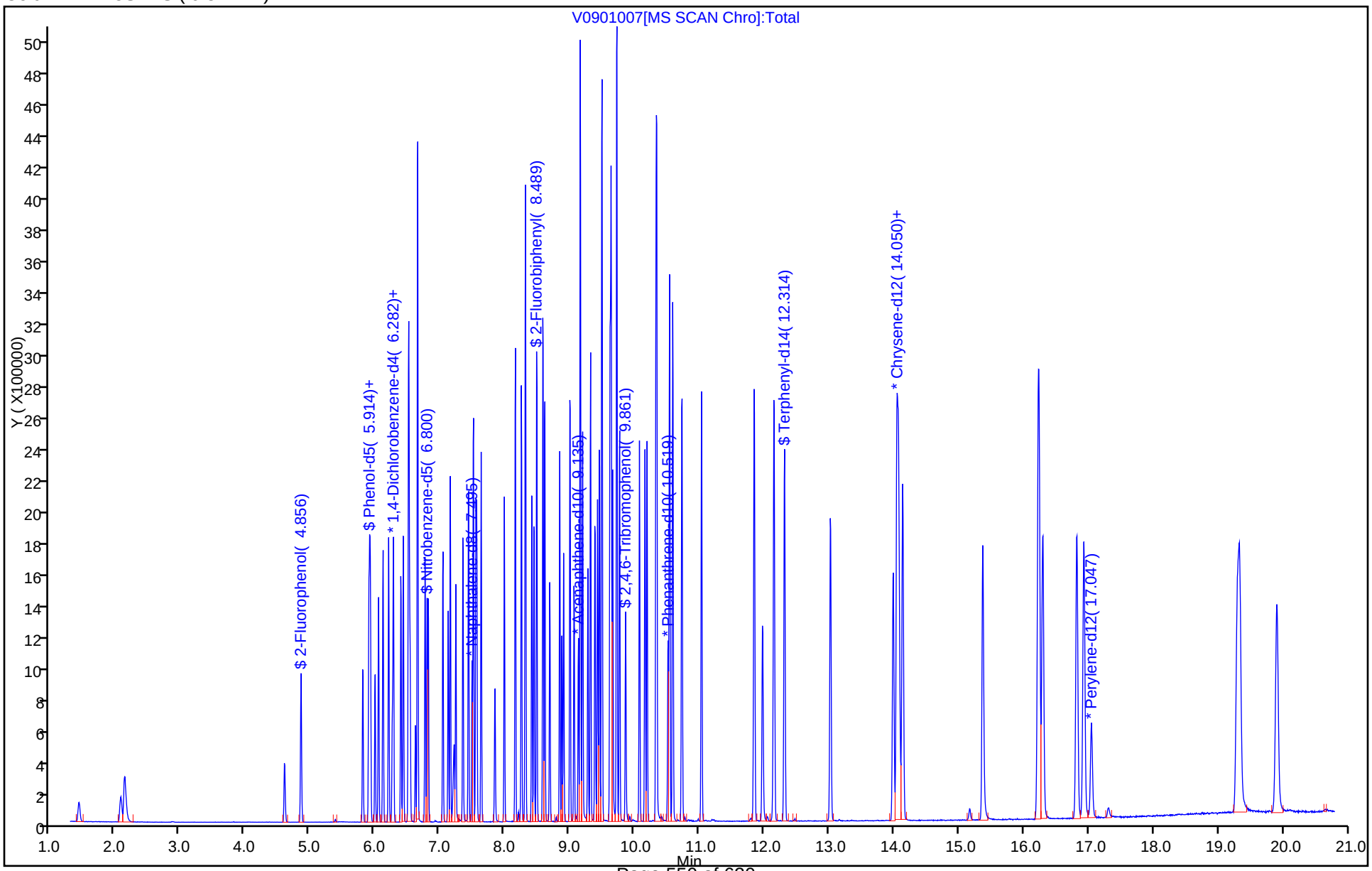
Report Date: 01-Sep-2015 04:26:40 Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CH731\20150831-8349.b\V0901007.D

Injection Date:	31-Aug-2015 15:31:30	Instrument ID:	CH731	Operator ID:	003200
Lims ID:	IC			Worklist Smp#:	7
Client ID:					
Injection Vol:	2.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	BNA_CH731	Limit Group:	BNA 8270D ICAL		

Column: Rxi-5SilMS (0.32 mm)



TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CH731\20150831-8349.b\V0901008.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 31-Aug-2015 15:59:30 ALS Bottle#: 7 Worklist Smp#: 8
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 180-0008349-008
Operator ID: 003200 Instrument ID: CH731
Sublist: chrom-BNA_CH731*sub4

Method: \\ChromNA\Pittsburgh\ChromData\CH731\20150831-8349.b\BNA_CH731.m
Limit Group: BNA 8270D ICAL
Last Update: 01-Sep-2015 04:26:41 Calib Date: 31-Aug-2015 16:55:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CH731\20150831-8349.b\V0901010.D

Column 1 : Rxi-5SilMS (0.32 mm) Det: MS SCAN
Process Host: XAWRK024

First Level Reviewer: piccolinov Date: 01-Sep-2015 04:13:59

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.256	6.261	-0.005	94	103970	8.00	8.00	
* 2 Naphthalene-d8	136	7.485	7.490	-0.005	100	428923	8.00	8.00	
* 3 Acenaphthene-d10	164	9.125	9.130	-0.005	91	267687	8.00	8.00	
* 4 Phenanthrene-d10	188	10.508	10.508	0.000	97	498920	8.00	8.00	
* 5 Chrysene-d12	240	14.072	14.071	0.001	97	578473	8.00	8.00	
* 6 Perylene-d12	264	17.031	17.031	0.000	98	582677	8.00	8.00	
$ 7 2-Fluorophenol	112	4.851	4.851	0.000	92	601129	40.0	39.3	
$ 8 Phenol-d5	99	5.898	5.898	0.000	95	777332	40.0	38.9	
$ 9 Nitrobenzene-d5	82	6.796	6.795	0.001	90	794610	40.0	38.1	
$ 10 2-Fluorobiphenyl	172	8.484	8.484	0.000	100	1812070	40.0	38.7	
$ 11 2,4,6-Tribromophenol	330	9.857	9.856	0.001	94	298800	40.0	43.2	
$ 12 Terphenyl-d14	244	12.303	12.303	0.000	99	2187918	40.0	39.8	
13 1,4-Dioxane	88	1.427	1.437	-0.010	91	201364	40.0	38.2	
14 N-Nitrosodimethylamine	74	2.073	2.078	-0.005	89	275725	40.0	41.1	
15 Pyridine	79	2.132	2.142	-0.010	96	513191	40.0	40.9	
22 Methyl methanesulfonate	80	4.600	4.600	0.000	89	343206	40.0	39.3	
26 Benzaldehyde	77	5.802	5.802	0.000	94	397070	40.0	38.3	
27 Phenol	94	5.909	5.909	0.000	98	835757	40.0	38.3	
28 Aniline	93	5.919	5.919	0.000	98	961258	40.0	39.1	
29 Bis(2-chloroethyl)ether	93	5.994	5.994	0.000	96	590760	40.0	39.1	
31 2-Chlorophenol	128	6.048	6.048	0.000	96	734589	40.0	39.7	
32 n-Decane	43	6.112	6.117	-0.005	88	678691	40.0	38.5	
33 1,3-Dichlorobenzene	146	6.203	6.202	0.001	97	833025	40.0	39.2	
34 1,4-Dichlorobenzene	146	6.272	6.277	-0.005	93	854038	40.0	39.3	
36 Benzyl alcohol	108	6.390	6.389	0.001	90	437762	40.0	39.5	
37 1,2-Dichlorobenzene	146	6.427	6.427	0.000	96	822563	40.0	39.5	
38 2-Methylphenol	108	6.507	6.507	0.000	97	622346	40.0	38.7	
39 Indene	116	6.512	6.518	-0.006	90	1214617	40.0	39.0	
40 2,2'-oxybis[1-chloropropan	45	6.528	6.534	-0.006	90	825469	40.0	37.3	
41 N-Nitrosopyrrolidine	100	6.619	6.614	0.005	84	285945	40.0	39.0	
44 N-Nitrosodi-n-propylamine	70	6.646	6.646	0.000	69	441214	40.0	37.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
43 Acetophenone	105	6.646	6.646	0.000	80	906914	40.0	37.2	
45 4-Methylphenol	108	6.651	6.651	0.000	73	643394	40.0	38.0	
47 Hexachloroethane	117	6.764	6.763	0.001	92	372580	40.0	39.3	
48 Nitrobenzene	77	6.812	6.811	0.001	89	776952	40.0	38.1	
50 Isophorone	82	7.036	7.041	-0.005	99	1277258	40.0	38.2	
51 2-Nitrophenol	139	7.121	7.121	0.000	97	420234	40.0	40.9	
52 2,4-Dimethylphenol	107	7.154	7.153	0.001	98	753151	40.0	37.8	
56 Benzoic acid	122	7.228	7.196	0.032	89	375654	40.0	39.6	
55 Bis(2-chloroethoxy)methane	93	7.239	7.239	0.000	98	770276	40.0	38.2	
57 2,4-Dichlorophenol	162	7.346	7.346	0.000	95	667300	40.0	39.1	
59 1,2,4-Trichlorobenzene	180	7.431	7.436	-0.005	94	794260	40.0	38.6	
60 Naphthalene	128	7.506	7.511	-0.005	97	2218172	40.0	38.0	
62 4-Chloroaniline	127	7.543	7.549	-0.006	96	925530	40.0	38.4	
63 2,6-Dichlorophenol	162	7.560	7.559	0.001	97	665137	40.0	38.9	
64 Hexachlorobutadiene	225	7.629	7.629	0.000	97	498986	40.0	37.9	
67 Caprolactam	113	7.848	7.837	0.011	77	195994	40.0	38.1	
70 4-Chloro-3-methylphenol	107	7.987	7.987	0.000	96	648108	40.0	38.2	
72 2-Methylnaphthalene	142	8.152	8.158	-0.006	92	1592038	40.0	38.3	
75 1-Methylnaphthalene	142	8.249	8.248	0.001	93	1385626	40.0	38.0	
76 Hexachlorocyclopentadiene	237	8.307	8.307	0.000	96	608183	40.0	42.2	
77 1,2,4,5-Tetrachlorobenzene	216	8.313	8.313	0.000	98	821465	40.0	38.6	
78 2,4,6-Trichlorophenol	196	8.409	8.409	0.000	92	529802	40.0	40.0	
79 2,4,5-Trichlorophenol	196	8.441	8.441	0.000	93	556002	40.0	40.0	
80 1,1'-Biphenyl	154	8.580	8.580	0.000	94	2002667	40.0	38.8	
81 2-Chloronaphthalene	162	8.607	8.612	-0.005	96	1554017	40.0	38.3	
82 2-Nitroaniline	65	8.687	8.687	0.001	83	462376	40.0	40.3	
86 Dimethyl phthalate	163	8.842	8.841	0.001	99	1672530	40.0	38.6	
87 1,3-Dinitrobenzene	168	8.874	8.873	0.001	86	283925	40.0	41.2	
88 2,6-Dinitrotoluene	165	8.900	8.900	0.000	95	396407	40.0	40.3	
89 Acenaphthylene	152	8.997	8.996	0.001	98	2416661	40.0	38.8	
90 3-Nitroaniline	138	9.061	9.060	0.001	93	421304	40.0	40.0	
91 Acenaphthene	153	9.157	9.157	0.000	86	1491106	40.0	37.8	
92 2,4-Dinitrophenol	184	9.157	9.157	0.000	69	538395	80.0	79.5	
93 4-Nitrophenol	109	9.194	9.194	0.000	87	574831	80.0	81.7	
94 2,4-Dinitrotoluene	165	9.274	9.274	0.000	93	548279	40.0	41.5	
95 Dibenzofuran	168	9.312	9.317	-0.005	96	2254271	40.0	38.3	
97 2,3,5,6-Tetrachlorophenol	232	9.381	9.381	0.000	93	533477	40.0	42.0	
99 2,3,4,6-Tetrachlorophenol	232	9.424	9.424	0.000	72	531770	40.0	41.0	
100 2-Naphthylamine	143	9.451	9.450	0.001	97	1523242	40.0	38.0	
101 Diethyl phthalate	149	9.488	9.488	0.000	98	1702838	40.0	37.6	
102 Hexadecane	57	9.493	9.493	0.000	96	1028978	40.0	36.6	
104 4-Chlorophenyl phenyl ethe	204	9.616	9.616	0.000	90	956781	40.0	39.4	
105 4-Nitroaniline	138	9.627	9.627	0.000	81	446405	40.0	40.1	
106 Fluorene	166	9.632	9.632	0.000	94	1834343	40.0	38.1	
108 4,6-Dinitro-2-methylphenol	198	9.654	9.659	-0.005	89	755388	80.0	88.8	
109 N-Nitrosodiphenylamine	169	9.718	9.718	0.000	61	2666058	80.0	77.0	
61 Azobenzene	77	9.760	9.760	0.000	99	1794860	40.0	38.3	
111 1,2-Diphenylhydrazine	77	9.760	9.760	0.000	98	1794860	40.0	38.3	
116 4-Bromophenyl phenyl ether	248	10.070	10.070	0.000	65	574987	40.0	41.0	
118 Hexachlorobenzene	284	10.156	10.156	0.000	95	622415	40.0	40.8	
119 Atrazine	200	10.188	10.188	0.000	94	561004	40.0	41.3	
122 Pentachlorophenol	266	10.321	10.327	-0.006	92	829971	80.0	79.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
121 n-Octadecane	57	10.332	10.337	-0.005	96	1131057	40.0	37.8	
126 Phenanthrene	178	10.530	10.535	-0.005	97	2880228	40.0	37.9	
128 Anthracene	178	10.583	10.583	0.000	96	2933520	40.0	38.7	
130 Carbazole	167	10.722	10.722	0.000	96	2629503	40.0	39.4	
132 Di-n-butyl phthalate	149	11.021	11.026	-0.005	100	3082799	40.0	40.2	
137 Fluoranthene	202	11.833	11.838	-0.005	97	3264797	40.0	40.2	
138 Benzidine	184	11.961	11.967	-0.006	99	1562314	40.0	42.7	
139 Pyrene	202	12.138	12.143	-0.005	98	3379936	40.0	37.9	
144 Butyl benzyl phthalate	149	13.008	13.014	-0.006	98	1451542	40.0	40.5	
149 3,3'-Dichlorobenzidine	252	13.975	13.975	0.000	74	1328092	40.0	42.1	
151 Bis(2-ethylhexyl) phthalat	149	14.029	14.034	-0.005	96	2049564	40.0	41.3	
152 Benzo[a]anthracene	228	14.056	14.055	0.001	98	3279613	40.0	38.9	
153 Chrysene	228	14.125	14.125	0.000	97	3138949	40.0	39.7	
156 Di-n-octyl phthalate	149	15.354	15.359	-0.005	99	3629195	40.0	38.6	
157 7,12-Dimethylbenz(a)anthra	256	16.214	16.208	0.006	91	1601028	40.0	40.8	
158 Benzo[b]fluoranthene	252	16.230	16.224	0.006	98	3629886	40.0	40.2	
159 Benzo[k]fluoranthene	252	16.283	16.278	0.005	99	3569072	40.0	39.6	
176 Benzo[e]pyrene	252	16.807	16.807	0.000	0	3386071	40.0	40.3	
160 Benzo[a]pyrene	252	16.919	16.913	0.006	85	3529029	40.0	41.1	
163 Indeno[1,2,3-cd]pyrene	276	19.285	19.275	0.010	99	4026833	40.0	41.0	
164 Dibenz(a,h)anthracene	278	19.318	19.312	0.006	93	3444565	40.0	41.4	
165 Benzo[g,h,i]perylene	276	19.889	19.889	0.000	99	3440452	40.0	40.2	
S 208 Methyl Phenols,Total	108				0		80.0	76.7	
S 206 Total Cresols	108				0		80.0	76.7	

Reagents:

SVTAPSTD40i_00007 Amount Added: 1.00 Units: mL

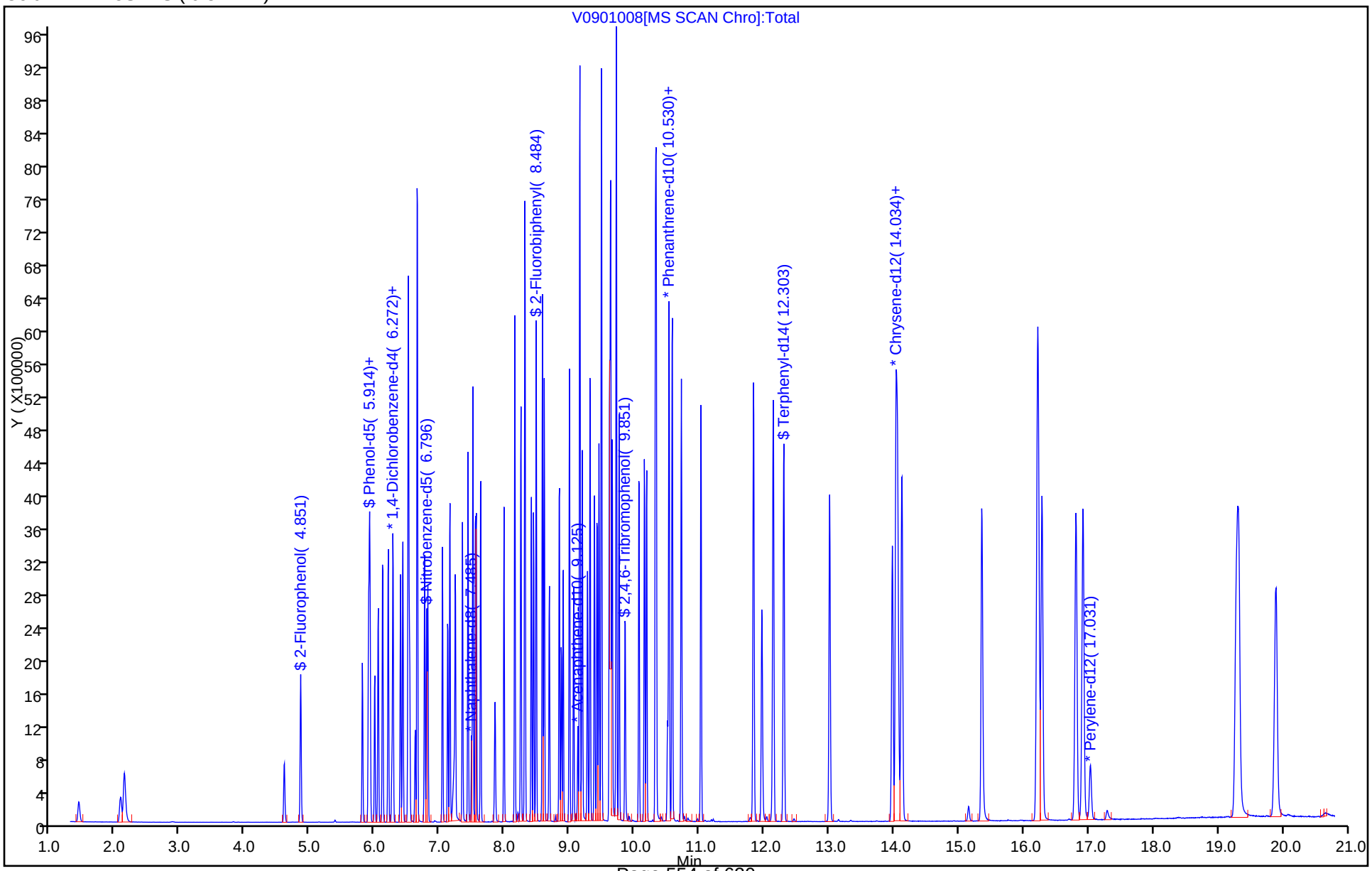
Report Date: 01-Sep-2015 04:26:42 Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CH731\20150831-8349.b\V0901008.D

Injection Date:	31-Aug-2015 15:59:30	Instrument ID:	CH731	Operator ID:	003200
Lims ID:	IC			Worklist Smp#:	8
Client ID:					
Injection Vol:	2.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	BNA_CH731	Limit Group:	BNA 8270D ICAL		

Column: Rxi-5SilMS (0.32 mm)



TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CH731\20150831-8349.b\V0901009.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 31-Aug-2015 16:27:30 ALS Bottle#: 8 Worklist Smp#: 9
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 180-0008349-009
Operator ID: 003200 Instrument ID: CH731
Sublist: chrom-BNA_CH731*sub4

Method: \\ChromNA\Pittsburgh\ChromData\CH731\20150831-8349.b\BNA_CH731.m
Limit Group: BNA 8270D ICAL
Last Update: 01-Sep-2015 04:26:43 Calib Date: 31-Aug-2015 16:55:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CH731\20150831-8349.b\V0901010.D

Column 1 : Rxi-5SilMS (0.32 mm) Det: MS SCAN
Process Host: XAWRK024

First Level Reviewer: piccolinov Date: 01-Sep-2015 04:15:33

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.259	6.261	-0.002	94	99714	8.00	8.00	
* 2 Naphthalene-d8	136	7.488	7.490	-0.002	100	406271	8.00	8.00	
* 3 Acenaphthene-d10	164	9.128	9.130	-0.002	92	264922	8.00	8.00	
* 4 Phenanthrene-d10	188	10.511	10.508	0.003	97	517551	8.00	8.00	
* 5 Chrysene-d12	240	14.080	14.071	0.009	97	607066	8.00	8.00	
* 6 Perylene-d12	264	17.040	17.031	0.009	98	619503	8.00	8.00	
$ 7 2-Fluorophenol	112	4.854	4.851	0.003	92	838231	60.0	57.1	
$ 8 Phenol-d5	99	5.901	5.898	0.003	96	1070228	60.0	55.8	
$ 9 Nitrobenzene-d5	82	6.799	6.795	0.004	89	1113656	60.0	56.3	
$ 10 2-Fluorobiphenyl	172	8.487	8.484	0.003	99	2610251	60.0	56.4	
$ 11 2,4,6-Tribromophenol	330	9.860	9.856	0.004	94	473316	60.0	66.0	
$ 12 Terphenyl-d14	244	12.306	12.303	0.003	99	3347581	60.0	58.1	
13 1,4-Dioxane	88	1.430	1.437	-0.007	91	279408	60.0	55.2	
14 N-Nitrosodimethylamine	74	2.076	2.078	-0.002	88	379885	60.0	59.1	
15 Pyridine	79	2.130	2.142	-0.012	96	712099	60.0	59.2	
22 Methyl methanesulfonate	80	4.603	4.600	0.003	89	474822	60.0	56.7	
26 Benzaldehyde	77	5.805	5.802	0.003	94	547639	60.0	55.1	
27 Phenol	94	5.917	5.909	0.008	99	1151982	60.0	55.0	
28 Aniline	93	5.923	5.919	0.004	98	1324460	60.0	56.1	
29 Bis(2-chloroethyl)ether	93	5.997	5.994	0.003	97	813920	60.0	56.2	
31 2-Chlorophenol	128	6.051	6.048	0.003	96	999145	60.0	56.4	
32 n-Decane	43	6.115	6.117	-0.002	88	933974	60.0	55.2	
33 1,3-Dichlorobenzene	146	6.206	6.202	0.004	98	1169034	60.0	57.4	
34 1,4-Dichlorobenzene	146	6.275	6.277	-0.002	93	1200818	60.0	57.6	
36 Benzyl alcohol	108	6.393	6.389	0.004	90	611039	60.0	57.5	
37 1,2-Dichlorobenzene	146	6.430	6.427	0.003	96	1128307	60.0	56.6	
38 2-Methylphenol	108	6.510	6.507	0.003	96	854410	60.0	55.4	
39 Indene	116	6.516	6.518	-0.002	90	1679927	60.0	56.2	
40 2,2'-oxybis[1-chloropropan	45	6.532	6.534	-0.002	91	1143395	60.0	53.9	
41 N-Nitrosopyrrolidine	100	6.622	6.614	0.008	85	400584	60.0	56.9	
44 N-Nitrosodi-n-propylamine	70	6.654	6.646	0.008	70	599779	60.0	53.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
43 Acetophenone	105	6.649	6.646	0.003	81	1253461	60.0	53.5	
45 4-Methylphenol	108	6.654	6.651	0.003	73	873748	60.0	53.8	
47 Hexachloroethane	117	6.767	6.763	0.004	92	519024	60.0	57.1	
48 Nitrobenzene	77	6.815	6.811	0.004	89	1066255	60.0	55.2	
50 Isophorone	82	7.039	7.041	-0.002	99	1778003	60.0	56.1	
51 2-Nitrophenol	139	7.125	7.121	0.004	98	583637	60.0	60.0	
52 2,4-Dimethylphenol	107	7.157	7.153	0.004	97	1041480	60.0	55.2	
56 Benzoic acid	122	7.247	7.196	0.051	91	594277	60.0	64.2	
55 Bis(2-chloroethoxy)methane	93	7.242	7.239	0.003	99	1064713	60.0	55.7	
57 2,4-Dichlorophenol	162	7.349	7.346	0.003	94	944141	60.0	58.4	
59 1,2,4-Trichlorobenzene	180	7.434	7.436	-0.002	94	1108717	60.0	56.9	
60 Naphthalene	128	7.509	7.511	-0.002	97	3102774	60.0	56.1	
62 4-Chloroaniline	127	7.547	7.549	-0.002	96	1324788	60.0	58.0	
63 2,6-Dichlorophenol	162	7.563	7.559	0.004	97	926626	60.0	57.2	
64 Hexachlorobutadiene	225	7.627	7.629	-0.002	96	725569	60.0	58.2	
67 Caprolactam	113	7.856	7.837	0.019	78	300973	60.0	61.8	
70 4-Chloro-3-methylphenol	107	7.990	7.987	0.003	96	936942	60.0	58.3	
72 2-Methylnaphthalene	142	8.156	8.158	-0.002	93	2232756	60.0	56.7	
75 1-Methylnaphthalene	142	8.252	8.248	0.004	93	1963496	60.0	56.8	
76 Hexachlorocyclopentadiene	237	8.311	8.307	0.004	96	886261	60.0	62.2	
77 1,2,4,5-Tetrachlorobenzene	216	8.316	8.313	0.003	97	1176134	60.0	55.9	
78 2,4,6-Trichlorophenol	196	8.412	8.409	0.003	92	767943	60.0	58.6	
79 2,4,5-Trichlorophenol	196	8.449	8.441	0.008	94	821214	60.0	59.8	
80 1,1'-Biphenyl	154	8.583	8.580	0.003	94	2860874	60.0	55.9	
81 2-Chloronaphthalene	162	8.610	8.612	-0.002	96	2245596	60.0	55.9	
82 2-Nitroaniline	65	8.690	8.687	0.004	84	675895	60.0	59.5	
86 Dimethyl phthalate	163	8.845	8.841	0.004	99	2472869	60.0	57.7	
87 1,3-Dinitrobenzene	168	8.877	8.873	0.004	87	433868	60.0	63.7	
88 2,6-Dinitrotoluene	165	8.904	8.900	0.004	95	592384	60.0	60.9	
89 Acenaphthylene	152	9.000	8.996	0.004	98	3497114	60.0	56.7	
90 3-Nitroaniline	138	9.064	9.060	0.004	93	646266	60.0	62.0	
91 Acenaphthene	153	9.160	9.157	0.003	85	2129611	60.0	54.5	
92 2,4-Dinitrophenol	184	9.160	9.157	0.003	70	863873	120.0	127.3	
93 4-Nitrophenol	109	9.203	9.194	0.009	89	881491	120.0	126.6	
94 2,4-Dinitrotoluene	165	9.277	9.274	0.003	93	826591	60.0	63.3	
95 Dibenzofuran	168	9.315	9.317	-0.002	96	3314307	60.0	57.0	
97 2,3,5,6-Tetrachlorophenol	232	9.384	9.381	0.003	93	803463	60.0	64.0	
99 2,3,4,6-Tetrachlorophenol	232	9.427	9.424	0.003	72	801901	60.0	62.4	
100 2-Naphthylamine	143	9.454	9.450	0.004	97	2285872	60.0	57.7	
101 Diethyl phthalate	149	9.491	9.488	0.003	98	2491639	60.0	55.6	
102 Hexadecane	57	9.496	9.493	0.003	97	1397088	60.0	52.4	
104 4-Chlorophenyl phenyl ethe	204	9.614	9.616	-0.002	92	1404700	60.0	58.4	
105 4-Nitroaniline	138	9.635	9.627	0.008	56	674066	60.0	61.2	
106 Fluorene	166	9.635	9.632	0.003	95	2695516	60.0	56.5	
108 4,6-Dinitro-2-methylphenol	198	9.662	9.659	0.003	90	1188730	120.0	134.7	
109 N-Nitrosodiphenylamine	169	9.721	9.718	0.003	61	3965267	120.0	110.4	
61 Azobenzene	77	9.764	9.760	0.004	99	2591039	60.0	53.4	
111 1,2-Diphenylhydrazine	77	9.764	9.760	0.004	98	2591039	60.0	53.4	
116 4-Bromophenyl phenyl ether	248	10.073	10.070	0.003	64	856180	60.0	58.9	
118 Hexachlorobenzene	284	10.154	10.156	-0.002	95	947897	60.0	59.9	
119 Atrazine	200	10.191	10.188	0.003	94	848278	60.0	60.1	
122 Pentachlorophenol	266	10.325	10.327	-0.002	92	1292579	120.0	119.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
121 n-Octadecane	57	10.335	10.337	-0.002	96	1541202	60.0	53.8	
126 Phenanthrene	178	10.533	10.535	-0.002	97	4342458	60.0	55.1	
128 Anthracene	178	10.586	10.583	0.003	97	4408878	60.0	56.1	
130 Carbazole	167	10.725	10.722	0.003	96	3955502	60.0	57.1	
132 Di-n-butyl phthalate	149	11.024	11.026	-0.002	100	4709352	60.0	59.2	
137 Fluoranthene	202	11.842	11.838	0.004	97	4990877	60.0	59.3	
138 Benzidine	184	11.970	11.967	0.003	99	2535078	60.0	66.1	
139 Pyrene	202	12.146	12.143	0.003	98	5158428	60.0	55.2	
144 Butyl benzyl phthalate	149	13.012	13.014	-0.002	98	2212652	60.0	58.8	
149 3,3'-Dichlorobenzidine	252	13.984	13.975	0.009	69	2048467	60.0	61.9	
151 Bis(2-ethylhexyl) phthalat	149	14.032	14.034	-0.002	96	3085719	60.0	59.2	
152 Benzo[a]anthracene	228	14.059	14.055	0.004	96	5081417	60.0	57.4	
153 Chrysene	228	14.128	14.125	0.003	94	4792327	60.0	57.8	
156 Di-n-octyl phthalate	149	15.362	15.359	0.003	99	5602751	60.0	56.0	
157 7,12-Dimethylbenz(a)anthra	256	16.222	16.208	0.014	71	2472560	60.0	59.3	
158 Benzo[b]fluoranthene	252	16.238	16.224	0.014	95	5446463	60.0	56.8	
159 Benzo[k]fluoranthene	252	16.297	16.278	0.019	98	5539285	60.0	57.8	
176 Benzo[e]pyrene	252	16.821	16.807	0.014	0	5228496	60.0	58.5	
160 Benzo[a]pyrene	252	16.927	16.913	0.014	73	5413285	60.0	59.3	
163 Indeno[1,2,3-cd]pyrene	276	19.299	19.275	0.024	94	6175786	60.0	59.2	
164 Dibenz(a,h)anthracene	278	19.331	19.312	0.019	59	5337190	60.0	60.4	
165 Benzo[g,h,i]perylene	276	19.908	19.889	0.019	91	5401597	60.0	59.4	
S 208 Methyl Phenols,Total	108				0		120.0	109.2	
S 206 Total Cresols	108				0		120.0	109.2	

Reagents:

SVTAPSTD60i_00007 Amount Added: 1.00 Units: mL

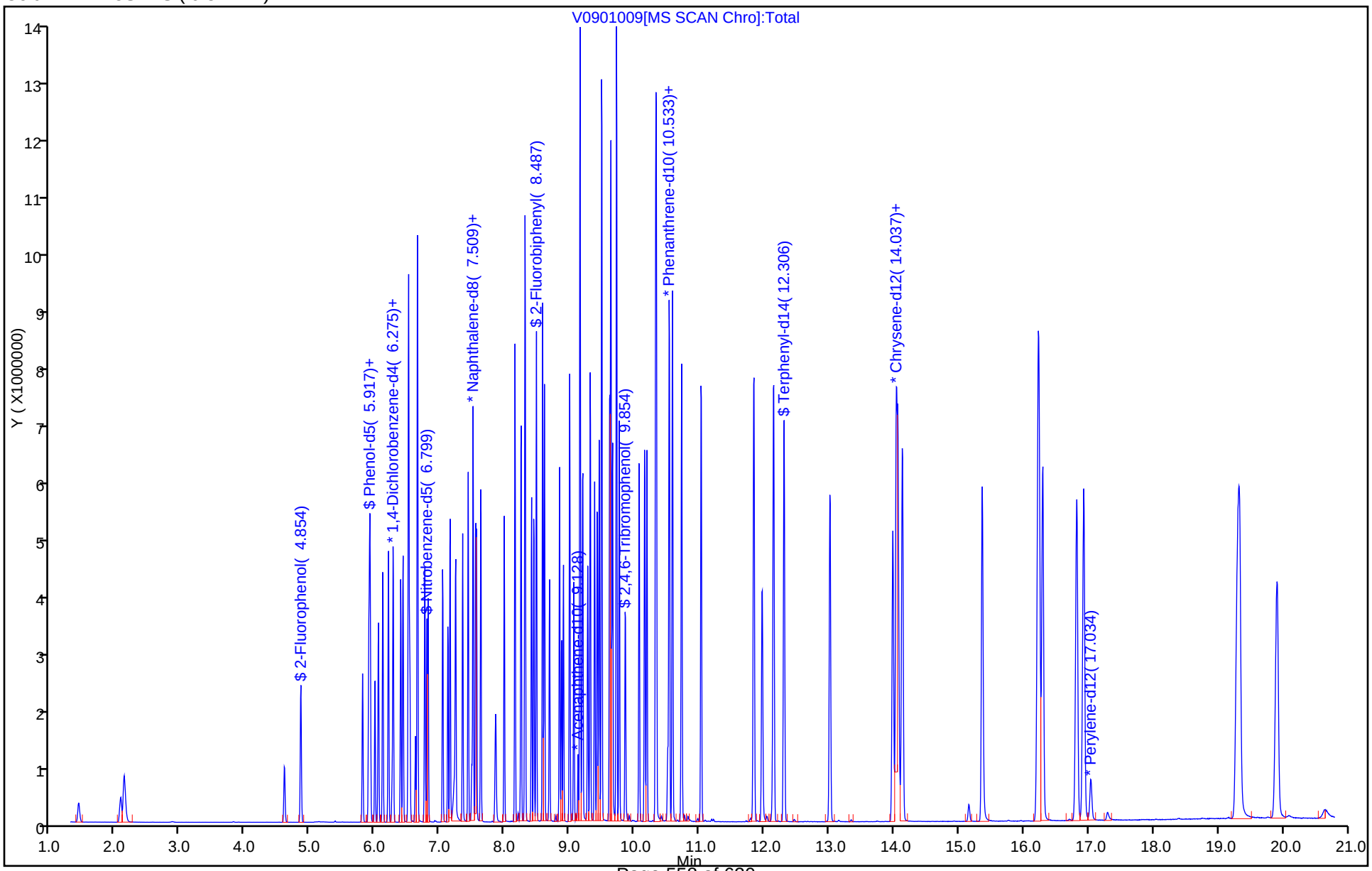
Report Date: 01-Sep-2015 04:26:44 Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CH731\20150831-8349.b\V0901009.D

Injection Date:	31-Aug-2015 16:27:30	Instrument ID:	CH731	Operator ID:	003200
Lims ID:	IC			Worklist Smp#:	9
Client ID:					
Injection Vol:	2.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	BNA_CH731	Limit Group:	BNA 8270D ICAL		

Column: Rxi-5SilMS (0.32 mm)



TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CH731\20150831-8349.b\V0901010.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 8
Inject. Date: 31-Aug-2015 16:55:30 ALS Bottle#: 9 Worklist Smp#: 10
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 180-0008349-010
Operator ID: 003200 Instrument ID: CH731
Sublist: chrom-BNA_CH731*sub4

Method: \\ChromNA\Pittsburgh\ChromData\CH731\20150831-8349.b\BNA_CH731.m
Limit Group: BNA 8270D ICAL
Last Update: 01-Sep-2015 04:26:45 Calib Date: 31-Aug-2015 16:55:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CH731\20150831-8349.b\V0901010.D

Column 1 : Rxi-5SilMS (0.32 mm) Det: MS SCAN
Process Host: XAWRK024

First Level Reviewer: piccolinov Date: 01-Sep-2015 04:17:13

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.262	6.261	0.001	95	98464	8.00	8.00	
* 2 Naphthalene-d8	136	7.491	7.490	0.001	99	395755	8.00	8.00	
* 3 Acenaphthene-d10	164	9.131	9.130	0.001	91	258714	8.00	8.00	
* 4 Phenanthrene-d10	188	10.515	10.508	0.007	97	511081	8.00	8.00	
* 5 Chrysene-d12	240	14.083	14.071	0.012	97	623884	8.00	8.00	
* 6 Perylene-d12	264	17.037	17.031	0.006	98	632963	8.00	8.00	
$ 7 2-Fluorophenol	112	4.852	4.851	0.001	92	1069551	80.0	73.8	
$ 8 Phenol-d5	99	5.904	5.898	0.006	95	1350534	80.0	71.3	
$ 9 Nitrobenzene-d5	82	6.797	6.795	0.002	89	1430717	80.0	74.3	
$ 10 2-Fluorobiphenyl	172	8.485	8.484	0.001	99	3334934	80.0	73.8	
$ 11 2,4,6-Tribromophenol	330	9.858	9.856	0.002	94	604617	80.0	85.4	
$ 12 Terphenyl-d14	244	12.304	12.303	0.001	99	4425141	80.0	74.7	
13 1,4-Dioxane	88	1.428	1.437	-0.009	91	356294	80.0	71.3	
14 N-Nitrosodimethylamine	74	2.074	2.078	-0.004	88	486190	80.0	76.6	
15 Pyridine	79	2.128	2.142	-0.014	96	895807	80.0	75.4	
22 Methyl methanesulfonate	80	4.601	4.600	0.001	89	603096	80.0	73.0	
26 Benzaldehyde	77	5.803	5.802	0.001	94	690724	80.0	70.3	
27 Phenol	94	5.915	5.909	0.006	98	1439322	80.0	69.6	
28 Aniline	93	5.926	5.919	0.007	98	1668289	80.0	71.6	
29 Bis(2-chloroethyl)ether	93	5.995	5.994	0.001	96	1025923	80.0	71.8	
31 2-Chlorophenol	128	6.049	6.048	0.001	96	1285834	80.0	73.5	
32 n-Decane	43	6.118	6.117	0.001	88	1170998	80.0	70.1	
33 1,3-Dichlorobenzene	146	6.204	6.202	0.002	97	1491482	80.0	74.2	
34 1,4-Dichlorobenzene	146	6.278	6.277	0.001	94	1538522	80.0	74.7	
36 Benzyl alcohol	108	6.396	6.389	0.007	90	774191	80.0	73.8	
37 1,2-Dichlorobenzene	146	6.428	6.427	0.001	96	1461140	80.0	74.2	
38 2-Methylphenol	108	6.513	6.507	0.006	93	1072808	80.0	70.5	
39 Indene	116	6.519	6.518	0.001	90	2137786	80.0	72.5	
40 2,2'-oxybis[1-chloropropan	45	6.529	6.534	-0.005	91	1427446	80.0	68.2	
41 N-Nitrosopyrrolidine	100	6.626	6.614	0.012	85	516581	80.0	74.3	
44 N-Nitrosodi-n-propylamine	70	6.652	6.646	0.006	79	741815	80.0	66.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
43 Acetophenone	105	6.652	6.646	0.006	90	1562211	80.0	67.6	
45 4-Methylphenol	108	6.652	6.651	0.001	88	1106901	80.0	69.0	
47 Hexachloroethane	117	6.765	6.763	0.002	91	666391	80.0	74.2	
48 Nitrobenzene	77	6.818	6.811	0.007	89	1349192	80.0	71.7	
50 Isophorone	82	7.042	7.041	0.001	99	2260645	80.0	73.2	
51 2-Nitrophenol	139	7.122	7.121	0.001	97	748083	80.0	78.9	
52 2,4-Dimethylphenol	107	7.154	7.153	0.001	97	1315779	80.0	71.6	
56 Benzoic acid	122	7.251	7.196	0.055	89	705621	80.0	77.5	
55 Bis(2-chloroethoxy)methane	93	7.240	7.239	0.001	99	1360002	80.0	73.0	
57 2,4-Dichlorophenol	162	7.347	7.346	0.001	94	1215699	80.0	77.2	
59 1,2,4-Trichlorobenzene	180	7.432	7.436	-0.004	94	1419941	80.0	74.8	
60 Naphthalene	128	7.507	7.511	-0.004	97	3961496	80.0	73.5	
62 4-Chloroaniline	127	7.550	7.549	0.001	96	1691471	80.0	76.1	
63 2,6-Dichlorophenol	162	7.560	7.559	0.001	97	1189347	80.0	75.3	
64 Hexachlorobutadiene	225	7.630	7.629	0.001	96	932690	80.0	76.9	
67 Caprolactam	113	7.865	7.837	0.028	79	390460	80.0	82.4	
70 4-Chloro-3-methylphenol	107	7.993	7.987	0.006	96	1193205	80.0	76.3	
72 2-Methylnaphthalene	142	8.153	8.158	-0.005	92	2845722	80.0	74.2	
75 1-Methylnaphthalene	142	8.250	8.248	0.002	93	2510891	80.0	74.5	
76 Hexachlorocyclopentadiene	237	8.308	8.307	0.001	96	1135006	80.0	81.5	
77 1,2,4,5-Tetrachlorobenzene	216	8.314	8.313	0.001	97	1486780	80.0	72.3	
78 2,4,6-Trichlorophenol	196	8.410	8.409	0.001	92	1010572	80.0	79.0	
79 2,4,5-Trichlorophenol	196	8.447	8.441	0.006	94	1060563	80.0	79.0	
80 1,1'-Biphenyl	154	8.581	8.580	0.001	93	3692898	80.0	73.9	
81 2-Chloronaphthalene	162	8.613	8.612	0.001	96	2836533	80.0	72.3	
82 2-Nitroaniline	65	8.688	8.687	0.002	84	856991	80.0	77.3	
86 Dimethyl phthalate	163	8.843	8.841	0.002	99	3193164	80.0	76.3	
87 1,3-Dinitrobenzene	168	8.875	8.873	0.002	87	563184	80.0	84.6	
88 2,6-Dinitrotoluene	165	8.901	8.900	0.001	96	774781	80.0	81.5	
89 Acenaphthylene	152	8.998	8.996	0.002	98	4484129	80.0	74.4	
90 3-Nitroaniline	138	9.067	9.060	0.007	94	831142	80.0	81.7	
91 Acenaphthene	153	9.158	9.157	0.001	85	2705975	80.0	70.9	
92 2,4-Dinitrophenol	184	9.158	9.157	0.001	70	1151263	160.0	172.8	
93 4-Nitrophenol	109	9.206	9.194	0.012	89	1135055	160.0	166.9	
94 2,4-Dinitrotoluene	165	9.281	9.274	0.007	94	1086532	80.0	85.1	
95 Dibenzofuran	168	9.318	9.317	0.001	96	4210142	80.0	74.1	
97 2,3,5,6-Tetrachlorophenol	232	9.388	9.381	0.007	93	1064721	80.0	86.8	
99 2,3,4,6-Tetrachlorophenol	232	9.425	9.424	0.001	71	1034946	80.0	82.5	
100 2-Naphthylamine	143	9.457	9.450	0.007	97	2904871	80.0	75.0	
101 Diethyl phthalate	149	9.494	9.488	0.006	98	3193948	80.0	72.9	
102 Hexadecane	57	9.494	9.493	0.001	96	1705323	80.0	65.7	
104 4-Chlorophenyl phenyl ethe	204	9.617	9.616	0.001	90	1819749	80.0	77.5	
105 4-Nitroaniline	138	9.639	9.627	0.012	82	881666	80.0	82.0	
106 Fluorene	166	9.633	9.632	0.001	96	3469462	80.0	74.5	
108 4,6-Dinitro-2-methylphenol	198	9.665	9.659	0.006	91	1577783	160.0	181.1	
109 N-Nitrosodiphenylamine	169	9.724	9.718	0.006	60	5134418	160.0	144.7	
61 Azobenzene	77	9.767	9.760	0.007	98	3287555	80.0	68.6	
111 1,2-Diphenylhydrazine	77	9.767	9.760	0.007	97	3287555	80.0	68.6	
116 4-Bromophenyl phenyl ether	248	10.071	10.070	0.001	64	1113159	80.0	77.5	
118 Hexachlorobenzene	284	10.157	10.156	0.001	96	1244142	80.0	79.6	
119 Atrazine	200	10.194	10.188	0.006	95	1098657	80.0	78.9	
122 Pentachlorophenol	266	10.328	10.327	0.001	93	1697903	160.0	158.6	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
121 n-Octadecane	57	10.338	10.337	0.001	97	1853282	80.0	65.5	
126 Phenanthrene	178	10.536	10.535	0.001	97	5640236	80.0	72.5	
128 Anthracene	178	10.584	10.583	0.001	96	5748524	80.0	74.0	
130 Carbazole	167	10.728	10.722	0.006	96	5117901	80.0	74.9	
132 Di-n-butyl phthalate	149	11.028	11.026	0.002	100	6102278	80.0	77.7	
137 Fluoranthene	202	11.840	11.838	0.002	97	6477904	80.0	78.0	
138 Benzidine	184	11.968	11.967	0.001	99	3407934	80.0	86.4	
139 Pyrene	202	12.144	12.143	0.001	98	6781286	80.0	70.6	
144 Butyl benzyl phthalate	149	13.015	13.014	0.001	97	2909727	80.0	75.3	
149 3,3'-Dichlorobenzidine	252	13.987	13.975	0.012	65	2760473	80.0	81.2	
151 Bis(2-ethylhexyl) phthalat	149	14.035	14.034	0.001	95	4027626	80.0	75.2	
152 Benzo[a]anthracene	228	14.062	14.055	0.007	96	6802828	80.0	74.7	
153 Chrysene	228	14.131	14.125	0.006	93	6394304	80.0	75.0	
156 Di-n-octyl phthalate	149	15.365	15.359	0.006	99	7419754	80.0	72.6	
157 7,12-Dimethylbenz(a)anthra	256	16.231	16.208	0.023	68	3354970	80.0	78.7	
158 Benzo[b]fluoranthene	252	16.247	16.224	0.023	92	7677405	80.0	78.3	
159 Benzo[k]fluoranthene	252	16.300	16.278	0.022	98	7151269	80.0	73.0	
176 Benzo[e]pyrene	252	16.824	16.807	0.017	0	6938914	80.0	76.0	
160 Benzo[a]pyrene	252	16.931	16.913	0.018	73	7225435	80.0	77.4	
163 Indeno[1,2,3-cd]pyrene	276	19.303	19.275	0.027	94	8349705	80.0	78.3	
164 Dibenz(a,h)anthracene	278	19.335	19.312	0.023	67	7188461	80.0	79.6	
165 Benzo[g,h,i]perylene	276	19.917	19.889	0.028	91	7315071	80.0	78.8	
S 208 Methyl Phenols,Total	108				0		160.0	139.4	
S 206 Total Cresols	108				0		160.0	139.4	

Reagents:

SVTAPSTD80i_00007 Amount Added: 1.00 Units: mL

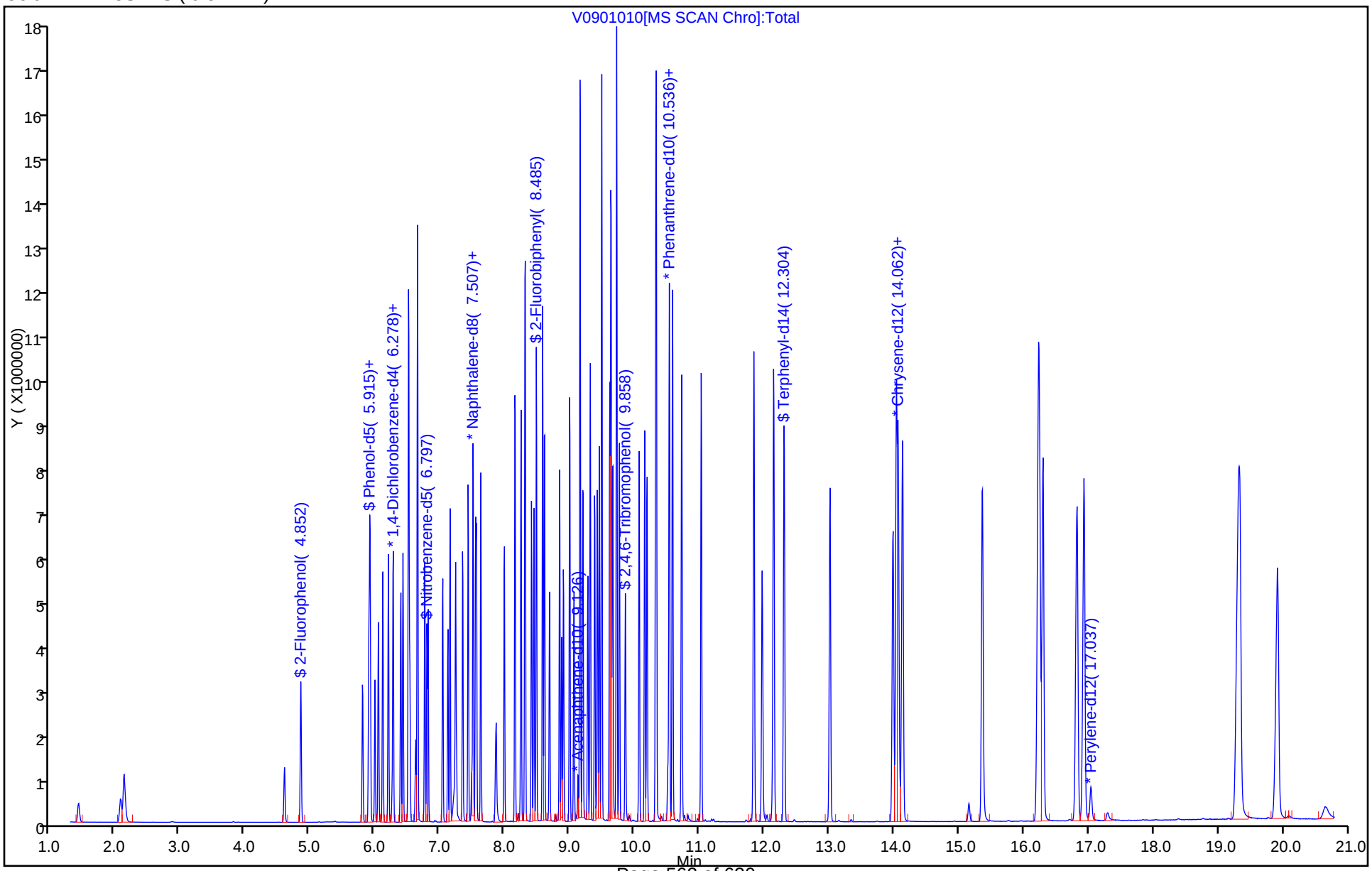
Report Date: 01-Sep-2015 04:26:46 Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CH731\20150831-8349.b\V0901010.D

Injection Date:	31-Aug-2015 16:55:30	Instrument ID:	CH731	Operator ID:	003200
Lims ID:	IC			Worklist Smp#:	10
Client ID:					
Injection Vol:	2.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	BNA_CH731	Limit Group:	BNA 8270D ICAL		

Column: Rxi-5SilMS (0.32 mm)



FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Pittsburgh Job No.: 180-48309-1

SDG No.:

Lab Sample ID: CCVIS 180-156466/3 Calibration Date: 10/09/2015 09:18

Instrument ID: CH731 Calib Start Date: 08/31/2015 13:40

GC Column: Rxi-5SilMS ID: 0.32(mm) Calib End Date: 08/31/2015 16:55

Lab File ID: V1009003.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.4059	0.4366	0.0100	5.38	5.00	7.5	20.0
N-Nitrosodimethylamine	Ave	0.5156	0.5917	0.0100	5.74	5.00	14.8	20.0
Pyridine	Ave	0.9650	1.080	0.0100	5.59	5.00	11.9	20.0
Methyl methanesulfonate	Ave	0.6714	0.7645	0.0100	5.69	5.00	13.9	20.0
Benzaldehyde	Ave	0.7981	1.067	0.0100	6.68	5.00	33.6*	20.0
Phenol	Ave	1.679	1.786	0.8000	5.32	5.00	6.3	20.0
Aniline	Ave	1.894	2.029	0.0100	5.36	5.00	7.1	20.0
Bis(2-chloroethyl)ether	Ave	1.161	1.260	0.7000	5.42	5.00	8.5	20.0
2-Chlorophenol	Ave	1.422	1.473	0.8000	5.18	5.00	3.6	20.0
n-Decane	Ave	1.358	1.376		5.07	5.00	1.4	20.0
1,3-Dichlorobenzene	Ave	1.633	1.639	0.0100	5.02	5.00	0.4	20.0
1,4-Dichlorobenzene	Ave	1.673	1.701	0.0100	5.08	5.00	1.7	20.0
Benzyl alcohol	Ave	0.8520	0.8586	0.0100	5.04	5.00	0.8	20.0
1,2-Dichlorobenzene	Ave	1.600	1.642	0.0100	5.13	5.00	2.6	20.0
2-Methylphenol	Ave	1.237	1.307	0.7000	5.28	5.00	5.6	20.0
Indene	Ave	2.396	2.478	0.0100	5.17	5.00	3.4	20.0
2,2'-oxybis[1-chloropropane]	Ave	1.702	1.828	0.0100	5.37	5.00	7.4	20.0
N-Nitrosopyrrolidine	Ave	0.5648	0.5706	0.0100	5.05	5.00	1.0	20.0
Acetophenone	Ave	1.878	2.027	0.0100	5.40	5.00	7.9	20.0
N-Nitrosodi-n-propylamine	Ave	0.9087	1.006	0.5000	5.54	5.00	10.7	20.0
Methylphenol, 3 & 4	Ave	1.304	1.372	0.6000	5.26	5.00	5.3	20.0
Hexachloroethane	Ave	0.7293	0.7212	0.3000	4.94	5.00	-1.1	20.0
Nitrobenzene	Ave	0.3804	0.4025	0.2000	5.29	5.00	5.8	20.0
Isophorone	Ave	0.6240	0.6670	0.4000	5.34	5.00	6.9	20.0
2-Nitrophenol	Ave	0.1917	0.2042	0.1000	5.33	5.00	6.5	20.0
2,4-Dimethylphenol	Ave	0.3716	0.3970	0.2000	5.34	5.00	6.8	20.0
Benzoic acid	Lin1		0.1657	0.0100	5.84	5.00	16.8	20.0
Bis(2-chloroethoxy)methane	Ave	0.3765	0.3974	0.3000	5.28	5.00	5.5	20.0
2,4-Dichlorophenol	Ave	0.3185	0.3392	0.2000	5.32	5.00	6.5	20.0
1,2,4-Trichlorobenzene	Ave	0.3838	0.3956	0.0100	5.15	5.00	3.1	20.0
Naphthalene	Ave	1.089	1.109	0.7000	5.09	5.00	1.8	20.0
4-Chloroaniline	Ave	0.4495	0.4740	0.0100	5.27	5.00	5.5	20.0
2,6-Dichlorophenol	Ave	0.3193	0.3276	0.0100	5.13	5.00	2.6	20.0
Hexachlorobutadiene	Ave	0.2453	0.2495	0.0100	5.09	5.00	1.7	20.0
Caprolactam	Ave	0.0958	0.0960	0.0100	5.01	5.00	0.2	20.0
4-Chloro-3-methylphenol	Ave	0.3163	0.3397	0.2000	5.37	5.00	7.4	20.0
2-Methylnaphthalene	Ave	0.7752	0.7959	0.4000	5.13	5.00	2.7	20.0
1-Methylnaphthalene	Ave	0.6809	0.7011	0.0100	5.15	5.00	3.0	20.0
Hexachlorocyclopentadiene	Ave	0.4305	0.4957	0.0500	5.76	5.00	15.2	20.0
1,2,4,5-Tetrachlorobenzene	Ave	0.6358	0.6670	0.0100	5.24	5.00	4.9	20.0
2,4,6-Trichlorophenol	Ave	0.3956	0.4277	0.2000	5.41	5.00	8.1	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Pittsburgh Job No.: 180-48309-1

SDG No.:

Lab Sample ID: CCVIS 180-156466/3 Calibration Date: 10/09/2015 09:18

Instrument ID: CH731 Calib Start Date: 08/31/2015 13:40

GC Column: Rxi-5SilMS ID: 0.32(mm) Calib End Date: 08/31/2015 16:55

Lab File ID: V1009003.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2,4,5-Trichlorophenol	Ave	0.4149	0.4520	0.2000	5.45	5.00	8.9	20.0
1,1'-Biphenyl	Ave	1.544	1.623	0.0100	5.25	5.00	5.1	20.0
2-Chloronaphthalene	Ave	1.213	1.263	0.8000	5.21	5.00	4.1	20.0
2-Nitroaniline	Ave	0.3429	0.3595	0.0100	5.24	5.00	4.8	20.0
Dimethyl phthalate	Ave	1.294	1.401	0.0100	5.42	5.00	8.3	20.0
1,3-Dinitrobenzene	Ave	0.2058	0.2116	0.0100	5.14	5.00	2.8	20.0
2,6-Dinitrotoluene	Ave	0.2938	0.3180	0.2000	5.41	5.00	8.2	20.0
Acenaphthylene	Ave	1.863	1.954	0.9000	5.25	5.00	4.9	20.0
3-Nitroaniline	Ave	0.3146	0.3274	0.0100	5.20	5.00	4.1	20.0
2,4-Dinitrophenol	Lin2		0.2066	0.0100	11.1	10.0	11.2	20.0
Acenaphthene	Ave	1.180	1.250	0.9000	5.29	5.00	5.9	20.0
4-Nitrophenol	Ave	0.2103	0.2212	0.0100	10.5	10.0	5.2	20.0
2,4-Dinitrotoluene	Ave	0.3946	0.4281	0.2000	5.42	5.00	8.5	20.0
Dibenzofuran	Ave	1.757	1.854	0.8000	5.28	5.00	5.5	20.0
2,3,5,6-Tetrachlorophenol	Ave	0.3792	0.4264	0.0100	5.62	5.00	12.4	20.0
2,3,4,6-Tetrachlorophenol	Ave	0.3880	0.4070	0.0100	5.24	5.00	4.9	20.0
2-Naphthylamine	Ave	1.197	1.252	0.0100	5.23	5.00	4.6	20.0
Diethyl phthalate	Ave	1.354	1.399	0.0100	5.17	5.00	3.3	20.0
Hexadecane	Ave	0.5246	0.5600		5.34	5.00	6.8	20.0
4-Chlorophenyl phenyl ether	Ave	0.7262	0.7909	0.4000	5.45	5.00	8.9	20.0
4-Nitroaniline	Ave	0.3326	0.3275	0.0100	4.92	5.00	-1.5	20.0
Fluorene	Ave	1.440	1.517	0.9000	5.27	5.00	5.4	20.0
4,6-Dinitro-2-methylphenol	Ave	0.1364	0.1506	0.0100	11.0	10.0	10.4	20.0
N-Nitrosodiphenylamine	Ave	0.5553	0.5700	0.0100	10.3	10.0	2.7	20.0
1,2-Diphenylhydrazine(as Azobenzene)	Ave	0.7505	0.7708	0.0100	5.14	5.00	2.7	20.0
4-Bromophenyl phenyl ether	Ave	0.2248	0.2373	0.1000	5.28	5.00	5.5	20.0
Hexachlorobenzene	Ave	0.2447	0.2545	0.1000	5.20	5.00	4.0	20.0
Atrazine	Ave	0.2181	0.2260	0.0100	5.18	5.00	3.7	20.0
Pentachlorophenol	Ave	0.1676	0.1582	0.0500	9.44	10.0	-5.6	20.0
n-Octadecane	Ave	2.300	2.423		5.27	5.00	5.4	20.0
Phenanthrene	Ave	1.218	1.227	0.7000	5.04	5.00	0.7	20.0
Anthracene	Ave	1.216	1.249	0.7000	5.14	5.00	2.7	20.0
Carbazole	Ave	1.070	1.061	0.0100	4.96	5.00	-0.8	20.0
Di-n-butyl phthalate	Ave	1.230	1.272	0.0100	5.17	5.00	3.4	20.0
Fluoranthene	Ave	1.301	1.271	0.6000	4.88	5.00	-2.3	20.0
Benzidine	Ave	0.5055	0.5994	0.0100	5.93	5.00	18.6	20.0
Pyrene	Ave	1.232	1.451	0.6000	5.89	5.00	17.8	20.0
Butyl benzyl phthalate	Ave	0.4956	0.5484	0.0100	5.53	5.00	10.6	20.0
3,3'-Dichlorobenzidine	Ave	0.4358	0.4237	0.0100	4.86	5.00	-2.8	20.0
Bis(2-ethylhexyl) phthalate	Ave	0.6866	0.7549	0.0100	5.50	5.00	10.0	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Pittsburgh Job No.: 180-48309-1

SDG No.:

Lab Sample ID: CCVIS 180-156466/3 Calibration Date: 10/09/2015 09:18

Instrument ID: CH731 Calib Start Date: 08/31/2015 13:40

GC Column: Rxi-5SilMS ID: 0.32(mm) Calib End Date: 08/31/2015 16:55

Lab File ID: V1009003.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Benzo[a]anthracene	Ave	1.167	1.196	0.8000	5.13	5.00	2.5	20.0
Chrysene	Ave	1.093	1.116	0.7000	5.10	5.00	2.1	20.0
Di-n-octyl phthalate	Ave	1.291	1.421	0.0100	5.50	5.00	10.1	20.0
7,12-Dimethylbenz(a)anthracene	Ave	0.5386	0.5860	0.0100	5.44	5.00	8.8	20.0
Benzo[b]fluoranthene	Ave	1.239	1.334	0.7000	5.38	5.00	7.6	20.0
Benzo[k]fluoranthene	Ave	1.238	1.283	0.7000	5.18	5.00	3.6	20.0
Benzo[e]pyrene	Ave	1.154	1.189	0.0100	5.15	5.00	3.0	20.0
Benzo[a]pyrene	Ave	1.180	1.211	0.7000	5.13	5.00	2.7	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.348	1.247	0.5000	4.63	5.00	-7.5	20.0
Dibenz(a,h)anthracene	Ave	1.141	1.056	0.4000	4.63	5.00	-7.5	20.0
Benzo[g,h,i]perylene	Ave	1.174	1.065	0.5000	4.54	5.00	-9.3	20.0
2-Fluorophenol (Surr)	Ave	1.178	1.216		5.16	5.00	3.2	20.0
Phenol-d5 (Surr)	Ave	1.538	1.626		5.28	5.00	5.7	20.0
Nitrobenzene-d5 (Surr)	Ave	0.3892	0.4025		5.17	5.00	3.4	20.0
2-Fluorobiphenyl	Ave	1.398	1.482		5.30	5.00	6.0	20.0
2,4,6-Tribromophenol (Surr)	Ave	0.1109	0.1160	0.0100	5.23	5.00	4.6	20.0
Terphenyl-d14 (Surr)	Ave	0.7597	0.8927		5.87	5.00	17.5	20.0

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CH731\20151009-8910.b\V1009003.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 09-Oct-2015 09:18:30 ALS Bottle#: 2 Worklist Smp#: 3
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 180-0008910-003
Operator ID: 003200 Instrument ID: CH731
Sublist: chrom-BNA_CH731*sub4

Method: \\ChromNA\Pittsburgh\ChromData\CH731\20151009-8910.b\BNA_CH731.m
Limit Group: BNA 8270D ICAL
Last Update: 11-Oct-2015 08:06:48 Calib Date: 01-Sep-2015 07:35:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CH731\20150901-8368.b\V0901N11.D

Column 1 : Rxi-5SilMS (0.32 mm) Det: MS SCAN
Process Host: XAWRK031

First Level Reviewer: piccolinov Date: 09-Oct-2015 11:51:09

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.310	6.310	0.000	94	197119	8.00	8.00	
* 2 Naphthalene-d8	136	7.539	7.539	0.000	100	804831	8.00	8.00	
* 3 Acenaphthene-d10	164	9.179	9.179	0.000	92	505326	8.00	8.00	
* 4 Phenanthrene-d10	188	10.573	10.573	0.000	97	951658	8.00	8.00	
* 5 Chrysene-d12	240	14.184	14.184	0.000	96	864459	8.00	8.00	
* 6 Perylene-d12	264	17.171	17.171	0.000	98	713136	8.00	8.00	
$ 7 2-Fluorophenol	112	4.900	4.900	0.000	92	299653	10.0	10.3	
$ 8 Phenol-d5	99	5.941	5.941	0.000	96	400520	10.0	10.6	
$ 9 Nitrobenzene-d5	82	6.844	6.844	0.000	91	404937	10.0	10.3	
$ 10 2-Fluorobiphenyl	172	8.538	8.538	0.000	100	935825	10.0	10.6	
$ 11 2,4,6-Tribromophenol	330	9.911	9.911	0.000	93	137994	10.0	10.5	
$ 12 Terphenyl-d14	244	12.389	12.389	0.000	99	964581	10.0	11.7	
13 1,4-Dioxane	88	1.502	1.502	0.000	92	107575	10.0	10.8	
14 N-Nitrosodimethylamine	74	2.159	2.159	0.000	88	145794	10.0	11.5	
15 Pyridine	79	2.234	2.234	0.000	96	266023	10.0	11.2	
22 Methyl methanesulfonate	80	4.649	4.649	0.000	90	188379	10.0	11.4	
26 Benzaldehyde	77	5.851	5.851	0.000	94	262816	10.0	13.4	
27 Phenol	94	5.957	5.957	0.000	98	439947	10.0	10.6	
28 Aniline	93	5.968	5.968	0.000	93	499845	10.0	10.7	
29 Bis(2-chloroethyl)ether	93	6.038	6.038	0.000	96	310361	10.0	10.8	
31 2-Chlorophenol	128	6.096	6.096	0.000	96	362982	10.0	10.4	
32 n-Decane	43	6.160	6.160	0.000	88	339120	10.0	10.1	
33 1,3-Dichlorobenzene	146	6.251	6.251	0.000	96	403891	10.0	10.0	
34 1,4-Dichlorobenzene	146	6.326	6.326	0.000	92	419197	10.0	10.2	
36 Benzyl alcohol	108	6.438	6.438	0.000	89	211550	10.0	10.1	
37 1,2-Dichlorobenzene	146	6.476	6.476	0.000	95	404653	10.0	10.3	
38 2-Methylphenol	108	6.556	6.556	0.000	97	321923	10.0	10.6	
39 Indene	116	6.567	6.567	0.000	92	610626	10.0	10.3	
40 2,2'-oxybis[1-chloropropan	45	6.577	6.577	0.000	89	450309	10.0	10.7	
41 N-Nitrosopyrrolidine	100	6.668	6.668	0.000	81	140604	10.0	10.1	
43 Acetophenone	105	6.695	6.695	0.000	79	499456	10.0	10.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
44 N-Nitrosodi-n-propylamine	70	6.695	6.695	0.000	71	247931	10.0	11.1	
45 4-Methylphenol	108	6.700	6.700	0.000	66	338107	10.0	10.5	
47 Hexachloroethane	117	6.818	6.818	0.000	92	177713	10.0	9.89	
48 Nitrobenzene	77	6.866	6.866	0.000	89	404973	10.0	10.6	
50 Isophorone	82	7.090	7.090	0.000	99	671001	10.0	10.7	
51 2-Nitrophenol	139	7.170	7.170	0.000	98	205459	10.0	10.7	
52 2,4-Dimethylphenol	107	7.202	7.202	0.000	98	399396	10.0	10.7	
56 Benzoic acid	122	7.256	7.256	0.000	89	166703	10.0	11.7	
55 Bis(2-chloroethoxy)methane	93	7.288	7.288	0.000	97	399756	10.0	10.6	
57 2,4-Dichlorophenol	162	7.400	7.400	0.000	95	341222	10.0	10.6	
59 1,2,4-Trichlorobenzene	180	7.485	7.485	0.000	94	398028	10.0	10.3	
60 Naphthalene	128	7.560	7.560	0.000	97	1116009	10.0	10.2	
62 4-Chloroaniline	127	7.598	7.598	0.000	95	476878	10.0	10.5	
63 2,6-Dichlorophenol	162	7.614	7.614	0.000	96	329603	10.0	10.3	
64 Hexachlorobutadiene	225	7.683	7.683	0.000	96	251041	10.0	10.2	
67 Caprolactam	113	7.886	7.886	0.000	76	96611	10.0	10.0	
70 4-Chloro-3-methylphenol	107	8.036	8.036	0.000	97	341715	10.0	10.7	
72 2-Methylnaphthalene	142	8.207	8.207	0.000	92	800734	10.0	10.3	
75 1-Methylnaphthalene	142	8.303	8.303	0.000	92	705291	10.0	10.3	
76 Hexachlorocyclopentadiene	237	8.361	8.361	0.000	96	313133	10.0	11.5	
77 1,2,4,5-Tetrachlorobenzene	216	8.367	8.367	0.000	98	421307	10.0	10.5	
78 2,4,6-Trichlorophenol	196	8.463	8.463	0.000	92	270161	10.0	10.8	
79 2,4,5-Trichlorophenol	196	8.495	8.495	0.000	94	285502	10.0	10.9	
80 1,1'-Biphenyl	154	8.634	8.634	0.000	94	1024995	10.0	10.5	
81 2-Chloronaphthalene	162	8.661	8.661	0.000	96	797907	10.0	10.4	
82 2-Nitroaniline	65	8.741	8.741	0.000	81	227061	10.0	10.5	
86 Dimethyl phthalate	163	8.890	8.890	0.000	98	885223	10.0	10.8	
87 1,3-Dinitrobenzene	168	8.922	8.922	0.000	85	133642	10.0	10.3	
88 2,6-Dinitrotoluene	165	8.954	8.954	0.000	94	200888	10.0	10.8	
89 Acenaphthylene	152	9.051	9.051	0.000	98	1234386	10.0	10.5	
90 3-Nitroaniline	138	9.115	9.115	0.000	91	206822	10.0	10.4	
92 2,4-Dinitrophenol	184	9.211	9.211	0.000	83	260998	20.0	22.2	
91 Acenaphthene	153	9.211	9.211	0.000	88	789313	10.0	10.6	
93 4-Nitrophenol	109	9.248	9.248	0.000	86	279455	20.0	21.0	
94 2,4-Dinitrotoluene	165	9.328	9.328	0.000	93	270440	10.0	10.8	
95 Dibenzofuran	168	9.371	9.371	0.000	96	1171379	10.0	10.6	
97 2,3,5,6-Tetrachlorophenol	232	9.441	9.441	0.000	93	269339	10.0	11.2	
99 2,3,4,6-Tetrachlorophenol	232	9.478	9.478	0.000	73	257060	10.0	10.5	
100 2-Naphthylamine	143	9.510	9.510	0.000	96	790961	10.0	10.5	
101 Diethyl phthalate	149	9.537	9.537	0.000	98	883808	10.0	10.3	
102 Hexadecane	57	9.542	9.542	0.000	96	563386	10.0	10.7	
104 4-Chlorophenyl phenyl ethe	204	9.670	9.670	0.000	91	499559	10.0	10.9	
105 4-Nitroaniline	138	9.681	9.681	0.000	83	206882	10.0	9.85	
106 Fluorene	166	9.692	9.692	0.000	95	958305	10.0	10.5	
108 4,6-Dinitro-2-methylphenol	198	9.713	9.713	0.000	88	358269	20.0	22.1	
109 N-Nitrosodiphenylamine	169	9.777	9.777	0.000	62	1356136	20.0	20.5	
61 Azobenzene	77	9.815	9.815	0.000	100	916870	10.0	10.3	
111 1,2-Diphenylhydrazine	77	9.815	9.815	0.000	99	916870	10.0	10.3	
116 4-Bromophenyl phenyl ether	248	10.124	10.124	0.000	66	282296	10.0	10.6	
118 Hexachlorobenzene	284	10.215	10.215	0.000	94	302773	10.0	10.4	
119 Atrazine	200	10.242	10.242	0.000	94	268872	10.0	10.4	
122 Pentachlorophenol	266	10.381	10.381	0.000	90	376329	20.0	18.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
121 n-Octadecane	57	10.386	10.386	0.000	95	597092	10.0	10.5	
126 Phenanthrene	178	10.594	10.594	0.000	97	1459595	10.0	10.1	
128 Anthracene	178	10.643	10.643	0.000	97	1485242	10.0	10.3	
130 Carbazole	167	10.787	10.787	0.000	96	1262296	10.0	9.92	
132 Di-n-butyl phthalate	149	11.086	11.086	0.000	100	1512804	10.0	10.3	
137 Fluoranthene	202	11.919	11.919	0.000	97	1511455	10.0	9.77	
138 Benzidine	184	12.048	12.048	0.000	99	647648	10.0	11.9	
139 Pyrene	202	12.229	12.229	0.000	99	1567934	10.0	11.8	
144 Butyl benzyl phthalate	149	13.100	13.100	0.000	98	592555	10.0	11.1	
149 3,3'-Dichlorobenzidine	252	14.083	14.083	0.000	74	457799	10.0	9.72	
151 Bis(2-ethylhexyl) phthalat	149	14.131	14.131	0.000	95	815764	10.0	11.0	
152 Benzo[a]anthracene	228	14.168	14.168	0.000	97	1292649	10.0	10.3	
153 Chrysene	228	14.238	14.238	0.000	96	1205653	10.0	10.2	
156 Di-n-octyl phthalate	149	15.466	15.466	0.000	100	1266952	10.0	11.0	
157 7,12-Dimethylbenz(a)anthra	256	16.337	16.337	0.000	90	522379	10.0	10.9	
158 Benzo[b]fluoranthene	252	16.353	16.353	0.000	97	1189161	10.0	10.8	
159 Benzo[k]fluoranthene	252	16.412	16.412	0.000	98	1143775	10.0	10.4	
176 Benzo[e]pyrene	252	16.941	16.941	0.000	0	1059876	10.0	10.3	
160 Benzo[a]pyrene	252	17.053	17.053	0.000	76	1079508	10.0	10.3	
163 Indeno[1,2,3-cd]pyrene	276	19.452	19.452	0.000	99	1111959	10.0	9.25	
164 Dibenz(a,h)anthracene	278	19.489	19.489	0.000	87	941082	10.0	9.25	
165 Benzo[g,h,i]perylene	276	20.071	20.071	0.000	99	949080	10.0	9.07	
S 206 Total Cresols	108				0		20.0	21.1	
S 208 Methyl Phenols,Total	108				0		20.0	21.1	

Reagents:

SVTAPSTD10i_00129 Amount Added: 1.00 Units: mL

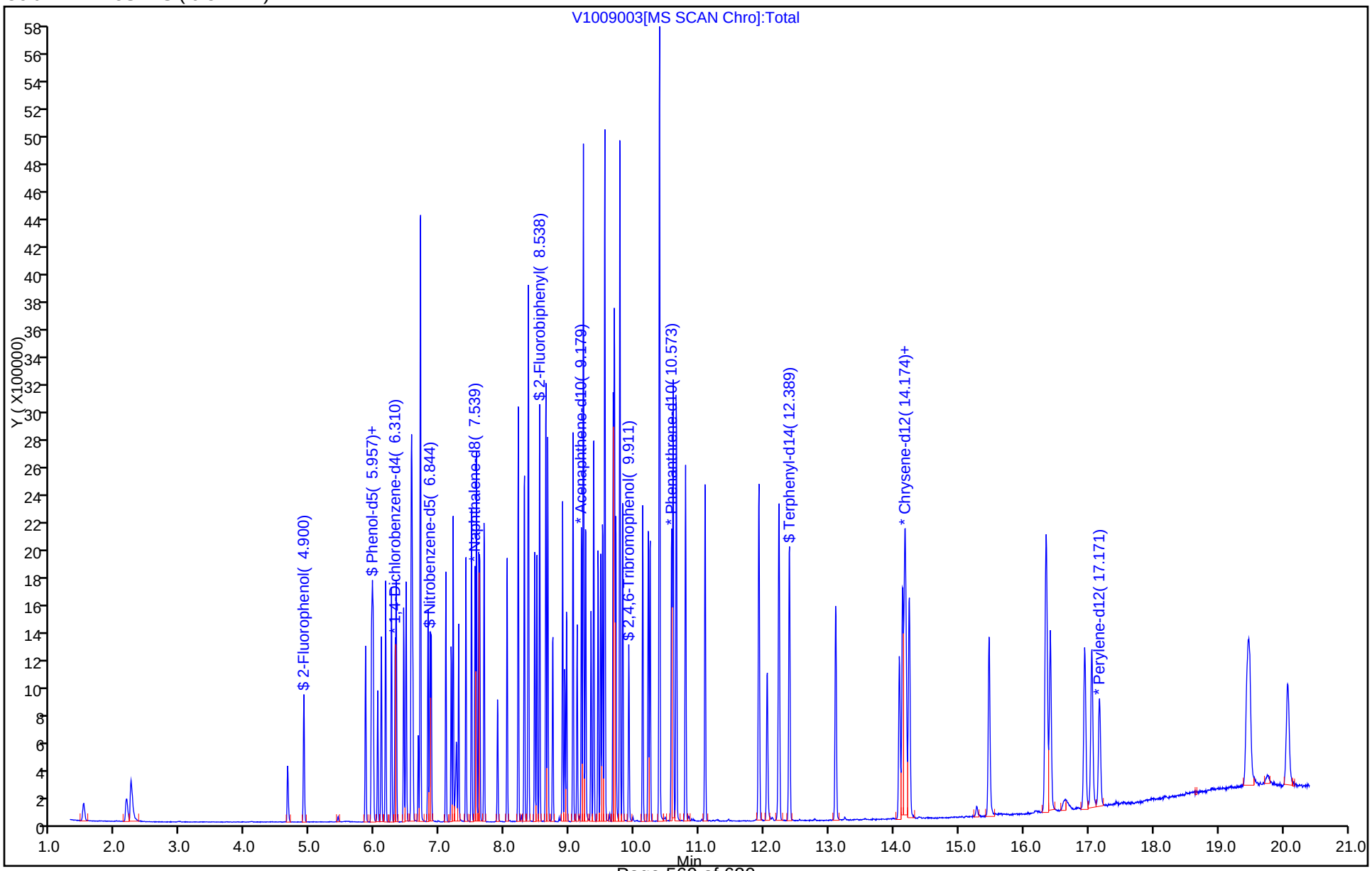
Report Date: 11-Oct-2015 08:06:48 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CH731\20151009-8910.b\V1009003.D

Injection Date:	09-Oct-2015 09:18:30	Instrument ID:	CH731	Operator ID:	003200
Lims ID:	CCVIS			Worklist Smp#:	3
Client ID:					
Injection Vol:	2.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	BNA_CH731	Limit Group:	BNA 8270D ICAL		

Column: Rxi-5SilMS (0.32 mm)



FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Pittsburgh Job No.: 180-48309-1

SDG No.:

Lab Sample ID: CCVIS 180-156605/3 Calibration Date: 10/11/2015 09:33

Instrument ID: CH731 Calib Start Date: 08/31/2015 13:40

GC Column: Rxi-5SilMS ID: 0.32(mm) Calib End Date: 08/31/2015 16:55

Lab File ID: V1011003.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.4059	0.4641	0.0100	5.72	5.00	14.3	20.0
N-Nitrosodimethylamine	Ave	0.5156	0.5796	0.0100	5.62	5.00	12.4	20.0
Pyridine	Ave	0.9650	1.044	0.0100	5.41	5.00	8.2	20.0
Methyl methanesulfonate	Ave	0.6714	0.7538	0.0100	5.61	5.00	12.3	20.0
Benzaldehyde	Ave	0.7981	1.073	0.0100	6.72	5.00	34.5*	20.0
Phenol	Ave	1.679	1.798	0.8000	5.35	5.00	7.1	20.0
Aniline	Ave	1.894	2.027	0.0100	5.35	5.00	7.0	20.0
Bis(2-chloroethyl)ether	Ave	1.161	1.228	0.7000	5.29	5.00	5.7	20.0
2-Chlorophenol	Ave	1.422	1.434	0.8000	5.04	5.00	0.8	20.0
n-Decane	Ave	1.358	1.397		5.14	5.00	2.9	20.0
1,3-Dichlorobenzene	Ave	1.633	1.642	0.0100	5.03	5.00	0.5	20.0
1,4-Dichlorobenzene	Ave	1.673	1.691	0.0100	5.05	5.00	1.1	20.0
Benzyl alcohol	Ave	0.8520	0.8756	0.0100	5.14	5.00	2.8	20.0
1,2-Dichlorobenzene	Ave	1.600	1.639	0.0100	5.12	5.00	2.4	20.0
2-Methylphenol	Ave	1.237	1.271	0.7000	5.14	5.00	2.7	20.0
Indene	Ave	2.396	2.463	0.0100	5.14	5.00	2.8	20.0
2,2'-oxybis[1-chloropropane]	Ave	1.702	1.804	0.0100	5.30	5.00	6.0	20.0
N-Nitrosopyrrolidine	Ave	0.5648	0.5656	0.0100	5.01	5.00	0.2	20.0
Acetophenone	Ave	1.878	2.000	0.0100	5.33	5.00	6.5	20.0
Methylphenol, 3 & 4	Ave	1.304	1.356	0.6000	5.20	5.00	4.0	20.0
N-Nitrosodi-n-propylamine	Ave	0.9087	0.9544	0.5000	5.25	5.00	5.0	20.0
Hexachloroethane	Ave	0.7293	0.7325	0.3000	5.02	5.00	0.4	20.0
Nitrobenzene	Ave	0.3804	0.3973	0.2000	5.22	5.00	4.5	20.0
Isophorone	Ave	0.6240	0.6627	0.4000	5.31	5.00	6.2	20.0
2-Nitrophenol	Ave	0.1917	0.2075	0.1000	5.41	5.00	8.2	20.0
2,4-Dimethylphenol	Ave	0.3716	0.4046	0.2000	5.44	5.00	8.9	20.0
Benzoic acid	Lin1		0.1626	0.0100	5.76	5.00	15.2	20.0
Bis(2-chloroethoxy)methane	Ave	0.3765	0.4010	0.3000	5.33	5.00	6.5	20.0
2,4-Dichlorophenol	Ave	0.3185	0.3428	0.2000	5.38	5.00	7.6	20.0
1,2,4-Trichlorobenzene	Ave	0.3838	0.4056	0.0100	5.29	5.00	5.7	20.0
Naphthalene	Ave	1.089	1.134	0.7000	5.21	5.00	4.1	20.0
4-Chloroaniline	Ave	0.4495	0.4787	0.0100	5.33	5.00	6.5	20.0
2,6-Dichlorophenol	Ave	0.3193	0.3250	0.0100	5.09	5.00	1.8	20.0
Hexachlorobutadiene	Ave	0.2453	0.2503	0.0100	5.10	5.00	2.0	20.0
Caprolactam	Ave	0.0958	0.0981	0.0100	5.12	5.00	2.4	20.0
4-Chloro-3-methylphenol	Ave	0.3163	0.3350	0.2000	5.30	5.00	5.9	20.0
2-Methylnaphthalene	Ave	0.7752	0.8082	0.4000	5.21	5.00	4.3	20.0
1-Methylnaphthalene	Ave	0.6809	0.7000	0.0100	5.14	5.00	2.8	20.0
Hexachlorocyclopentadiene	Ave	0.4305	0.4659	0.0500	5.41	5.00	8.2	20.0
1,2,4,5-Tetrachlorobenzene	Ave	0.6358	0.6692	0.0100	5.26	5.00	5.2	20.0
2,4,6-Trichlorophenol	Ave	0.3956	0.4230	0.2000	5.35	5.00	6.9	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Pittsburgh Job No.: 180-48309-1

SDG No.:

Lab Sample ID: CCVIS 180-156605/3 Calibration Date: 10/11/2015 09:33

Instrument ID: CH731 Calib Start Date: 08/31/2015 13:40

GC Column: Rxi-5SilMS ID: 0.32(mm) Calib End Date: 08/31/2015 16:55

Lab File ID: V1011003.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2,4,5-Trichlorophenol	Ave	0.4149	0.4524	0.2000	5.45	5.00	9.0	20.0
1,1'-Biphenyl	Ave	1.544	1.616	0.0100	5.23	5.00	4.6	20.0
2-Chloronaphthalene	Ave	1.213	1.241	0.8000	5.12	5.00	2.3	20.0
2-Nitroaniline	Ave	0.3429	0.3629	0.0100	5.29	5.00	5.8	20.0
Dimethyl phthalate	Ave	1.294	1.402	0.0100	5.42	5.00	8.4	20.0
1,3-Dinitrobenzene	Ave	0.2058	0.2181	0.0100	5.30	5.00	5.9	20.0
2,6-Dinitrotoluene	Ave	0.2938	0.3181	0.2000	5.41	5.00	8.3	20.0
Acenaphthylene	Ave	1.863	1.915	0.9000	5.14	5.00	2.8	20.0
3-Nitroaniline	Ave	0.3146	0.3362	0.0100	5.34	5.00	6.9	20.0
2,4-Dinitrophenol	Lin2		0.2182	0.0100	11.7	10.0	16.7	20.0
Acenaphthene	Ave	1.180	1.255	0.9000	5.32	5.00	6.3	20.0
4-Nitrophenol	Ave	0.2103	0.2493	0.0100	11.9	10.0	18.5	20.0
2,4-Dinitrotoluene	Ave	0.3946	0.4332	0.2000	5.49	5.00	9.8	20.0
Dibenzofuran	Ave	1.757	1.844	0.8000	5.25	5.00	4.9	20.0
2,3,5,6-Tetrachlorophenol	Ave	0.3792	0.4132	0.0100	5.45	5.00	9.0	20.0
2,3,4,6-Tetrachlorophenol	Ave	0.3880	0.4121	0.0100	5.31	5.00	6.2	20.0
2-Naphthylamine	Ave	1.197	1.298	0.0100	5.42	5.00	8.4	20.0
Diethyl phthalate	Ave	1.354	1.437	0.0100	5.31	5.00	6.1	20.0
Hexadecane	Ave	0.5246	0.5511		5.25	5.00	5.1	20.0
4-Chlorophenyl phenyl ether	Ave	0.7262	0.7663	0.4000	5.28	5.00	5.5	20.0
4-Nitroaniline	Ave	0.3326	0.3517	0.0100	5.29	5.00	5.7	20.0
Fluorene	Ave	1.440	1.522	0.9000	5.29	5.00	5.7	20.0
4,6-Dinitro-2-methylphenol	Ave	0.1364	0.1556	0.0100	11.4	10.0	14.1	20.0
N-Nitrosodiphenylamine	Ave	0.5553	0.5672	0.0100	10.2	10.0	2.1	20.0
1,2-Diphenylhydrazine(as Azobenzene)	Ave	0.7505	0.7580	0.0100	5.05	5.00	1.0	20.0
4-Bromophenyl phenyl ether	Ave	0.2248	0.2336	0.1000	5.20	5.00	3.9	20.0
Hexachlorobenzene	Ave	0.2447	0.2489	0.1000	5.08	5.00	1.7	20.0
Atrazine	Ave	0.2181	0.2404	0.0100	5.51	5.00	10.2	20.0
n-Octadecane	Ave	2.300	2.314		5.03	5.00	0.6	20.0
Pentachlorophenol	Ave	0.1676	0.1614	0.0500	9.63	10.0	-3.7	20.0
Phenanthrene	Ave	1.218	1.254	0.7000	5.15	5.00	2.9	20.0
Anthracene	Ave	1.216	1.259	0.7000	5.18	5.00	3.6	20.0
Carbazole	Ave	1.070	1.124	0.0100	5.25	5.00	5.0	20.0
Di-n-butyl phthalate	Ave	1.230	1.311	0.0100	5.33	5.00	6.5	20.0
Fluoranthene	Ave	1.301	1.415	0.6000	5.44	5.00	8.8	20.0
Benzidine	Ave	0.5055	0.5950	0.0100	5.89	5.00	17.7	20.0
Pyrene	Ave	1.232	1.266	0.6000	5.14	5.00	2.7	20.0
Butyl benzyl phthalate	Ave	0.4956	0.5103	0.0100	5.15	5.00	3.0	20.0
3,3'-Dichlorobenzidine	Ave	0.4358	0.4496	0.0100	5.16	5.00	3.2	20.0
Bis(2-ethylhexyl) phthalate	Ave	0.6866	0.7269	0.0100	5.29	5.00	5.9	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Pittsburgh Job No.: 180-48309-1

SDG No.:

Lab Sample ID: CCVIS 180-156605/3 Calibration Date: 10/11/2015 09:33

Instrument ID: CH731 Calib Start Date: 08/31/2015 13:40

GC Column: Rxi-5SilMS ID: 0.32(mm) Calib End Date: 08/31/2015 16:55

Lab File ID: V1011003.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Benzo[a]anthracene	Ave	1.167	1.210	0.8000	5.18	5.00	3.7	20.0
Chrysene	Ave	1.093	1.127	0.7000	5.16	5.00	3.1	20.0
Di-n-octyl phthalate	Ave	1.291	1.278	0.0100	4.95	5.00	-1.0	20.0
7,12-Dimethylbenz(a)anthracene	Ave	0.5386	0.5469	0.0100	5.08	5.00	1.5	20.0
Benzo[b]fluoranthene	Ave	1.239	1.236	0.7000	4.99	5.00	-0.3	20.0
Benzo[k]fluoranthene	Ave	1.238	1.316	0.7000	5.31	5.00	6.3	20.0
Benzo[e]pyrene	Ave	1.154	1.196	0.0100	5.18	5.00	3.6	20.0
Benzo[a]pyrene	Ave	1.180	1.228	0.7000	5.21	5.00	4.1	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.348	1.373	0.5000	5.09	5.00	1.9	20.0
Dibenz(a,h)anthracene	Ave	1.141	1.158	0.4000	5.08	5.00	1.5	20.0
Benzo[g,h,i]perylene	Ave	1.174	1.166	0.5000	4.97	5.00	-0.6	20.0
2-Fluorophenol (Surr)	Ave	1.178	1.194		5.07	5.00	1.4	20.0
Phenol-d5 (Surr)	Ave	1.538	1.589		5.16	5.00	3.3	20.0
Nitrobenzene-d5 (Surr)	Ave	0.3892	0.4134		5.31	5.00	6.2	20.0
2-Fluorobiphenyl	Ave	1.398	1.451		5.19	5.00	3.8	20.0
2,4,6-Tribromophenol (Surr)	Ave	0.1109	0.1116	0.0100	5.03	5.00	0.6	20.0
Terphenyl-d14 (Surr)	Ave	0.7597	0.7974		5.25	5.00	5.0	20.0

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CH731\20151011-8939.b\V1011003.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 11-Oct-2015 09:33:30 ALS Bottle#: 2 Worklist Smp#: 3
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 180-0008939-003
Operator ID: 003200 Instrument ID: CH731
Sublist: chrom-BNA_CH731*sub4

Method: \\ChromNA\Pittsburgh\ChromData\CH731\20151011-8939.b\BNA_CH731.m
Limit Group: BNA 8270D ICAL
Last Update: 12-Oct-2015 06:37:50 Calib Date: 01-Sep-2015 07:35:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CH731\20150901-8368.b\V0901N11.D

Column 1 : Rxi-5SilMS (0.32 mm) Det: MS SCAN
Process Host: XAWRK051

First Level Reviewer: piccolinov Date: 11-Oct-2015 11:15:33

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.301	6.301	0.000	94	135067	8.00	8.00	
* 2 Naphthalene-d8	136	7.525	7.525	0.000	99	531363	8.00	8.00	
* 3 Acenaphthene-d10	164	9.159	9.159	0.000	92	333175	8.00	8.00	
* 4 Phenanthrene-d10	188	10.543	10.543	0.000	97	643030	8.00	8.00	
* 5 Chrysene-d12	240	14.128	14.128	0.000	97	744112	8.00	8.00	
* 6 Perylene-d12	264	17.103	17.103	0.000	98	716576	8.00	8.00	
$ 7 2-Fluorophenol	112	4.912	4.912	0.000	93	201648	10.0	10.1	
$ 8 Phenol-d5	99	5.938	5.938	0.000	95	268192	10.0	10.3	
$ 9 Nitrobenzene-d5	82	6.830	6.830	0.000	91	274572	10.0	10.6	
$ 10 2-Fluorobiphenyl	172	8.513	8.513	0.000	99	604149	10.0	10.4	
$ 11 2,4,6-Tribromophenol	330	9.886	9.886	0.000	92	89677	10.0	10.1	
$ 12 Terphenyl-d14	244	12.343	12.343	0.000	99	741735	10.0	10.5	
13 1,4-Dioxane	88	1.526	1.526	0.000	94	78354	10.0	11.4	
14 N-Nitrosodimethylamine	74	2.204	2.204	0.000	84	97860	10.0	11.2	
15 Pyridine	79	2.273	2.273	0.000	95	176292	10.0	10.8	
22 Methyl methanesulfonate	80	4.667	4.667	0.000	89	127269	10.0	11.2	
26 Benzaldehyde	77	5.847	5.847	0.000	94	181210	10.0	13.4	
27 Phenol	94	5.949	5.949	0.000	98	303585	10.0	10.7	
28 Aniline	93	5.965	5.965	0.000	93	342222	10.0	10.7	
29 Bis(2-chloroethyl)ether	93	6.034	6.034	0.000	95	207284	10.0	10.6	
31 2-Chlorophenol	128	6.088	6.088	0.000	96	242112	10.0	10.1	
32 n-Decane	43	6.152	6.152	0.000	88	235812	10.0	10.3	
33 1,3-Dichlorobenzene	146	6.243	6.243	0.000	97	277181	10.0	10.1	
34 1,4-Dichlorobenzene	146	6.317	6.317	0.000	92	285498	10.0	10.1	
36 Benzyl alcohol	108	6.430	6.430	0.000	89	147834	10.0	10.3	
37 1,2-Dichlorobenzene	146	6.467	6.467	0.000	95	276737	10.0	10.2	
38 2-Methylphenol	108	6.542	6.542	0.000	97	214531	10.0	10.3	
39 Indene	116	6.552	6.552	0.000	90	415807	10.0	10.3	
40 2,2'-oxybis[1-chloropropan	45	6.568	6.568	0.000	91	304498	10.0	10.6	
41 N-Nitrosopyrrolidine	100	6.654	6.654	0.000	83	95498	10.0	10.0	
44 N-Nitrosodi-n-propylamine	70	6.686	6.686	0.000	70	161132	10.0	10.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
43 Acetophenone	105	6.686	6.686	0.000	81	337729	10.0	10.7	
45 4-Methylphenol	108	6.686	6.686	0.000	64	229019	10.0	10.4	
47 Hexachloroethane	117	6.804	6.804	0.000	91	123672	10.0	10.0	
48 Nitrobenzene	77	6.852	6.852	0.000	91	263903	10.0	10.4	
50 Isophorone	82	7.076	7.076	0.000	99	440151	10.0	10.6	
51 2-Nitrophenol	139	7.156	7.156	0.000	98	137822	10.0	10.8	
52 2,4-Dimethylphenol	107	7.188	7.188	0.000	98	268710	10.0	10.9	
56 Benzoic acid	122	7.231	7.231	0.000	90	107976	10.0	11.5	
55 Bis(2-chloroethoxy)methane	93	7.268	7.268	0.000	97	266327	10.0	10.7	
57 2,4-Dichlorophenol	162	7.380	7.380	0.000	95	227706	10.0	10.8	
59 1,2,4-Trichlorobenzene	180	7.466	7.466	0.000	93	269428	10.0	10.6	
60 Naphthalene	128	7.541	7.541	0.000	97	753246	10.0	10.4	
62 4-Chloroaniline	127	7.578	7.578	0.000	95	317976	10.0	10.7	
63 2,6-Dichlorophenol	162	7.594	7.594	0.000	96	215887	10.0	10.2	
64 Hexachlorobutadiene	225	7.664	7.664	0.000	97	166279	10.0	10.2	
67 Caprolactam	113	7.867	7.867	0.000	77	65170	10.0	10.2	
70 4-Chloro-3-methylphenol	107	8.016	8.016	0.000	97	222510	10.0	10.6	
72 2-Methylnaphthalene	142	8.187	8.187	0.000	92	536775	10.0	10.4	
75 1-Methylnaphthalene	142	8.278	8.278	0.000	93	464932	10.0	10.3	
76 Hexachlorocyclopentadiene	237	8.337	8.337	0.000	96	194018	10.0	10.8	
77 1,2,4,5-Tetrachlorobenzene	216	8.342	8.342	0.000	98	278701	10.0	10.5	
78 2,4,6-Trichlorophenol	196	8.438	8.438	0.000	93	176179	10.0	10.7	
79 2,4,5-Trichlorophenol	196	8.470	8.470	0.000	94	188421	10.0	10.9	
80 1,1'-Biphenyl	154	8.609	8.609	0.000	95	673027	10.0	10.5	
81 2-Chloronaphthalene	162	8.641	8.641	0.000	97	516993	10.0	10.2	
82 2-Nitroaniline	65	8.716	8.716	0.000	81	151136	10.0	10.6	
86 Dimethyl phthalate	163	8.866	8.866	0.000	98	583755	10.0	10.8	
87 1,3-Dinitrobenzene	168	8.903	8.903	0.000	83	90814	10.0	10.6	
88 2,6-Dinitrotoluene	165	8.930	8.930	0.000	93	132495	10.0	10.8	
89 Acenaphthylene	152	9.031	9.031	0.000	98	797346	10.0	10.3	
90 3-Nitroaniline	138	9.090	9.090	0.000	93	140012	10.0	10.7	
92 2,4-Dinitrophenol	184	9.186	9.186	0.000	85	181737	20.0	23.3	
91 Acenaphthene	153	9.191	9.191	0.000	93	522582	10.0	10.6	
93 4-Nitrophenol	109	9.218	9.218	0.000	82	207626	20.0	23.7	
94 2,4-Dinitrotoluene	165	9.304	9.304	0.000	92	180418	10.0	11.0	
95 Dibenzofuran	168	9.346	9.346	0.000	96	767939	10.0	10.5	
97 2,3,5,6-Tetrachlorophenol	232	9.411	9.411	0.000	93	172080	10.0	10.9	
99 2,3,4,6-Tetrachlorophenol	232	9.453	9.453	0.000	73	171606	10.0	10.6	
100 2-Naphthylamine	143	9.480	9.480	0.000	97	540543	10.0	10.8	
101 Diethyl phthalate	149	9.512	9.512	0.000	98	598541	10.0	10.6	
102 Hexadecane	57	9.517	9.517	0.000	95	366063	10.0	10.5	
104 4-Chlorophenyl phenyl ethe	204	9.646	9.646	0.000	91	319156	10.0	10.6	
105 4-Nitroaniline	138	9.656	9.656	0.000	80	146476	10.0	10.6	
106 Fluorene	166	9.662	9.662	0.000	94	633743	10.0	10.6	
108 4,6-Dinitro-2-methylphenol	198	9.683	9.683	0.000	87	250200	20.0	22.8	
109 N-Nitrosodiphenylamine	169	9.747	9.747	0.000	63	911846	20.0	20.4	
61 Azobenzene	77	9.790	9.790	0.000	99	609267	10.0	10.1	
111 1,2-Diphenylhydrazine	77	9.790	9.790	0.000	98	609267	10.0	10.1	
116 4-Bromophenyl phenyl ether	248	10.100	10.100	0.000	67	187781	10.0	10.4	
118 Hexachlorobenzene	284	10.185	10.185	0.000	94	200046	10.0	10.2	
119 Atrazine	200	10.212	10.212	0.000	94	193191	10.0	11.0	
122 Pentachlorophenol	266	10.356	10.356	0.000	91	259398	20.0	19.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
121 n-Octadecane	57	10.356	10.356	0.000	96	390709	10.0	10.1	
126 Phenanthrene	178	10.564	10.564	0.000	97	1008163	10.0	10.3	
128 Anthracene	178	10.612	10.612	0.000	97	1011843	10.0	10.4	
130 Carbazole	167	10.757	10.757	0.000	96	903102	10.0	10.5	
132 Di-n-butyl phthalate	149	11.056	11.056	0.000	100	1053486	10.0	10.7	
137 Fluoranthene	202	11.879	11.879	0.000	97	1137635	10.0	10.9	
138 Benzidine	184	12.007	12.007	0.000	98	553463	10.0	11.8	
139 Pyrene	202	12.183	12.183	0.000	99	1177564	10.0	10.3	
144 Butyl benzyl phthalate	149	13.054	13.054	0.000	98	474674	10.0	10.3	
149 3,3'-Dichlorobenzidine	252	14.031	14.031	0.000	74	418173	10.0	10.3	
151 Bis(2-ethylhexyl) phthalat	149	14.074	14.074	0.000	95	676099	10.0	10.6	
152 Benzo[a]anthracene	228	14.112	14.112	0.000	98	1125209	10.0	10.4	
153 Chrysene	228	14.181	14.181	0.000	96	1048248	10.0	10.3	
156 Di-n-octyl phthalate	149	15.404	15.404	0.000	99	1144958	10.0	9.90	
157 7,12-Dimethylbenz(a)anthra	256	16.275	16.275	0.000	90	489842	10.0	10.2	
158 Benzo[b]fluoranthene	252	16.297	16.297	0.000	97	1106730	10.0	9.97	
159 Benzo[k]fluoranthene	252	16.350	16.350	0.000	99	1178894	10.0	10.6	
176 Benzo[e]pyrene	252	16.879	16.879	0.000	0	1071367	10.0	10.4	
160 Benzo[a]pyrene	252	16.991	16.991	0.000	76	1100282	10.0	10.4	
163 Indeno[1,2,3-cd]pyrene	276	19.374	19.374	0.000	99	1229801	10.0	10.2	
164 Dibenz(a,h)anthracene	278	19.406	19.406	0.000	91	1037660	10.0	10.2	
165 Benzo[g,h,i]perylene	276	19.993	19.993	0.000	99	1044631	10.0	9.94	
S 206 Total Cresols	108				0		20.0	20.7	
S 208 Methyl Phenols,Total	108				0		20.0	20.7	

Reagents:

SVTAPSTD10i_00129 Amount Added: 1.00 Units: mL

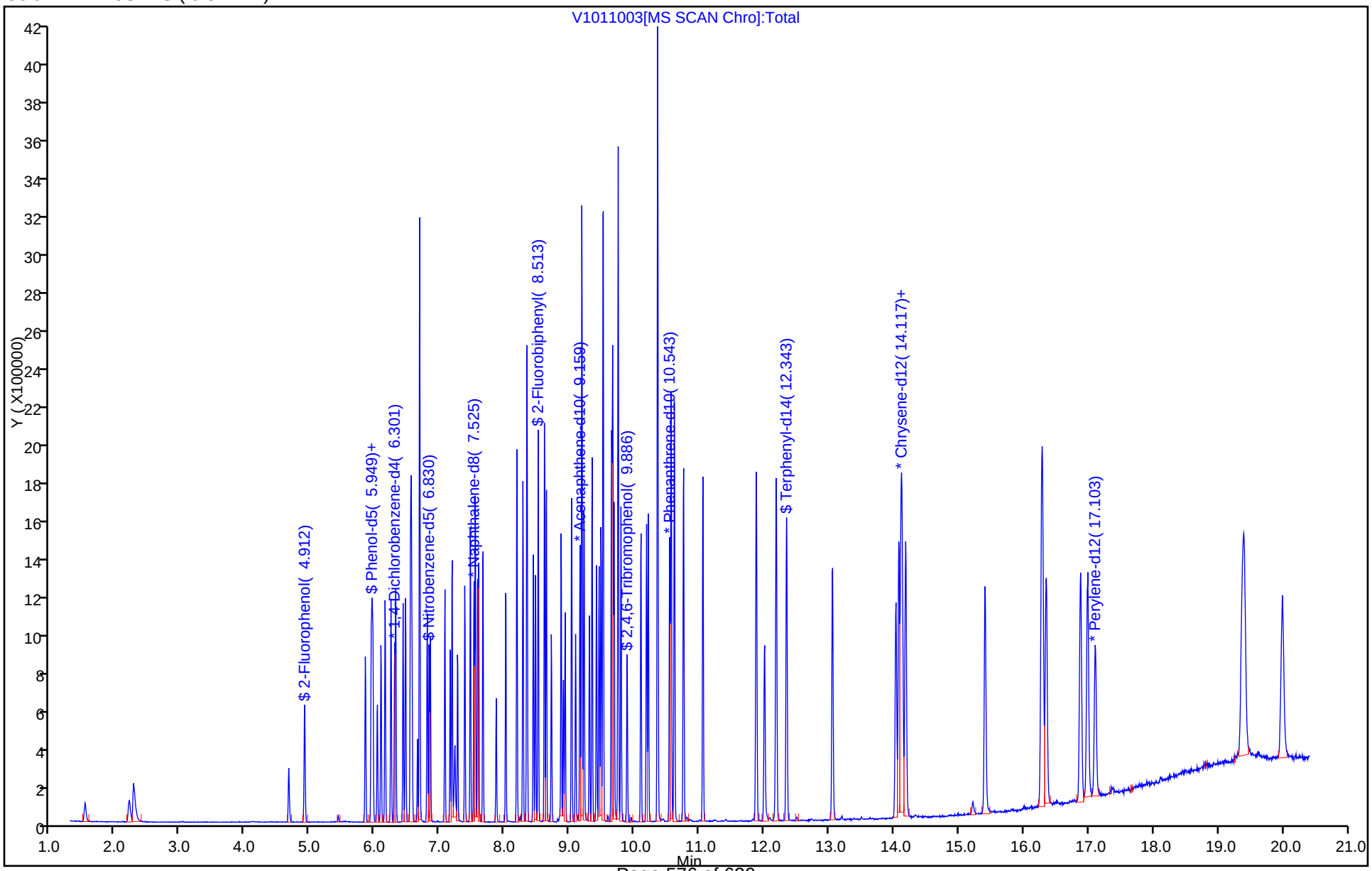
Report Date: 12-Oct-2015 06:37:50 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CH731\20151011-8939.b\V1011003.D

Injection Date:	11-Oct-2015 09:33:30	Instrument ID:	CH731	Operator ID:	003200
Lims ID:	CCVIS			Worklist Smp#:	3
Client ID:					
Injection Vol:	2.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	BNA_CH731	Limit Group:	BNA 8270D ICAL		

Column: Rxi-5SilMS (0.32 mm)



TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CH731\20150831-8349.b\V0901002.D
Lims ID: DFTPP
Client ID:
Sample Type: DFTPP
Inject. Date: 31-Aug-2015 13:24:30 ALS Bottle#: 1 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 180-0008349-002
Misc. Info.: DFTPP
Operator ID: 003200 Instrument ID: CH731

Method: \\ChromNA\Pittsburgh\ChromData\CH731\20150831-8349.b\BNA_CH731.m
Limit Group: BNA 8270D ICAL
Last Update: 01-Sep-2015 04:26:22 Calib Date: 31-Aug-2015 16:55:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CH731\20150831-8349.b\V0901010.D

Column 1 : Rxi-5SilMS (0.32 mm) Det: MS SCAN
Process Host: XAWRK024

First Level Reviewer: piccolinov Date: 01-Sep-2015 04:06:56

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
198 Pentachlorophenol_T	266	5.377	5.377	0.000	90	195908	NR	NR	
199 DFTPP									
200 Benzidine_T	184	8.006	8.006	0.000	99	1599239	NR	NR	
201 4,4'-DDE	246		8.436					ND	
202 4,4'-DDD	235	9.021	9.028	-0.007	91	7061		NR	
203 4,4'-DDT	235	9.555	9.555	0.000	98	649669	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

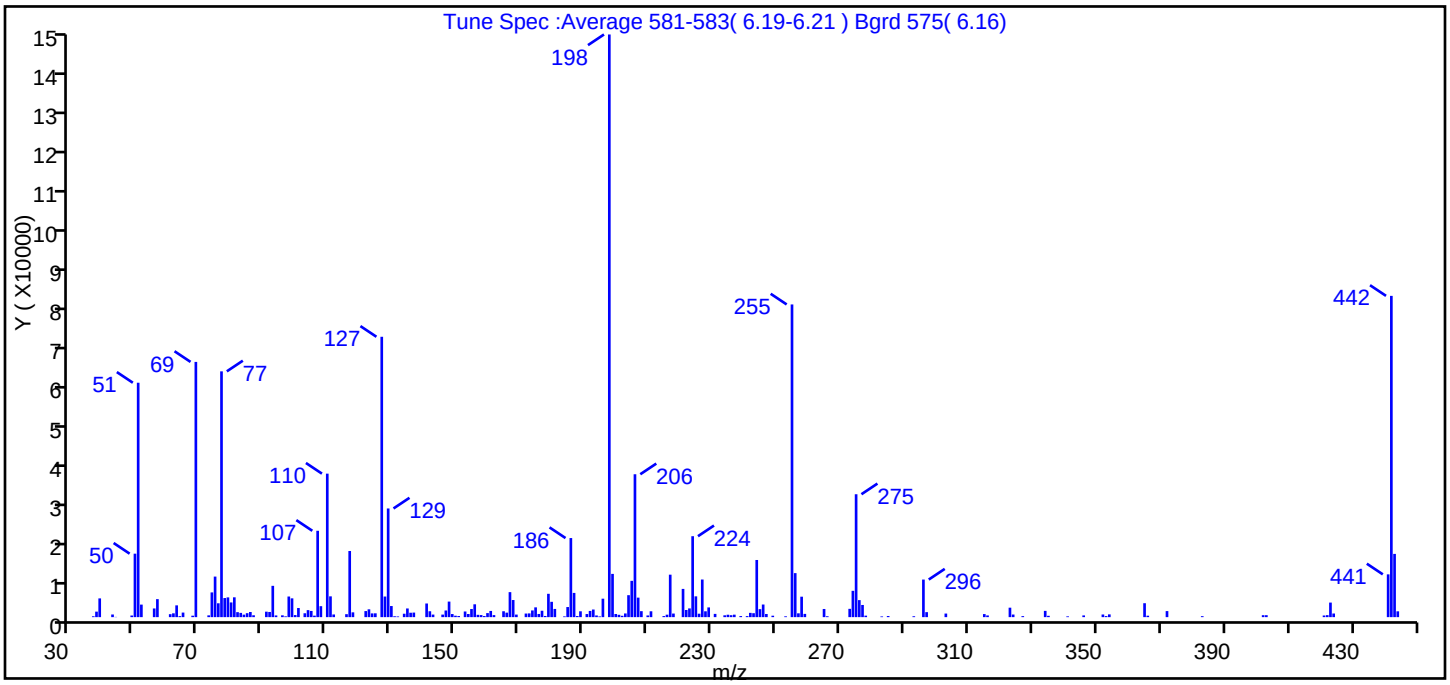
SVDFTPP50i_00023 Amount Added: 1.00 Units: mL

MS Tune Report

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CH731\20150831-8349.b\V0901002.D
Injection Date: 31-Aug-2015 13:24:30 Instrument ID: CH731
Lims ID: DFTPP
Client ID:
Operator ID: 003200 ALS Bottle#: 1 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: BNA_CH731 Limit Group: BNA 8270D ICAL
Tune Method: DFTPP Method 8270

199 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	Base peak, 100% relative abundance	100.0
51	30-60% of mass 198	40.2
68	<2% of mass 69	0.2 (0.6)
69	Present	43.8
70	<2% of mass 69	0.0 (0.0)
127	40-60% of mass 198	48.1
197	<1% of mass 198	0.0
199	5-9% of mass 198	7.4
275	10-30% of mass 198	21.1
365	>1% of mass 198	2.4
441	Present but less than mass 443	7.3 (67.7)
442	>40% of mass 198	55.1
443	17-23% of mass 442	10.9 (19.7)

Data File: \\ChromNA\Pittsburgh\ChromData\CH731\20150831-8349.b\V0901002.D\BNA_CH731.rslt\spectra.d
Injection Date: 31-Aug-2015 13:24:30
Spectrum: Tune Spec :Average 581-583(6.19-6.21) Bgrd 575(6.16)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 201

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	216	112.00	672	181.00	2060	247.00	790
38.00	1381	116.00	745	184.00	186	249.00	359
39.00	4703	117.00	16592	185.00	2534	253.00	207
43.00	666	118.00	1206	186.00	19840	255.00	78448
44.00	55	122.00	1520	187.00	6078	256.00	11042
49.00	405	123.00	1962	188.00	288	257.00	958
50.00	15922	124.00	940	189.00	1467	258.00	5131
51.00	58808	125.00	959	191.00	779	259.00	817
52.00	3146	127.00	70336	192.00	1556	265.00	2048
56.00	2177	128.00	5171	193.00	1911	266.00	221
57.00	4519	129.00	27264	194.00	422	273.00	2084
61.00	744	130.00	2785	195.00	177	274.00	6603
62.00	958	131.00	216	196.00	4630	275.00	30832
63.00	2957	132.00	170	198.00	146176	276.00	4269
64.00	249	134.00	856	199.00	10851	277.00	3053
65.00	1147	135.00	2177	200.00	787	278.00	375
68.00	361	136.00	1106	201.00	584	283.00	177
69.00	64032	137.00	1144	202.00	341	285.00	281
73.00	448	141.00	3424	203.00	926	293.00	223
74.00	6204	142.00	1479	204.00	5510	296.00	9429
75.00	10174	143.00	645	205.00	9107	297.00	1253
76.00	3476	146.00	640	206.00	35848	303.00	899
77.00	61664	147.00	1667	207.00	4896	315.00	770
78.00	4792	148.00	3904	208.00	1498	316.00	426
79.00	4956	149.00	776	210.00	422	323.00	2373
80.00	3688	150.00	358	211.00	1472	324.00	656
81.00	4976	151.00	281	215.00	266	327.00	253
82.00	1250	153.00	1419	216.00	616	334.00	1571
83.00	1068	154.00	784	217.00	10655	335.00	336
84.00	626	155.00	2037	218.00	901	341.00	195
85.00	992	156.00	3223	221.00	7084	346.00	432
86.00	1291	157.00	582	222.00	1792	352.00	665
87.00	470	158.00	519	223.00	2190	353.00	269

Report Date: 01-Sep-2015 04:26:23 Chrom Revision: 2.2 23-Jul-2015 08:26:08
Data File: \\ChromNA\Pittsburgh\ChromData\CH731\20150831-8349.b\V0901002.D\BNA_CH731.rslt\spectra.d
Injection Date: 31-Aug-2015 13:24:30
Spectrum: Tune Spec :Average 581-583(6.19-6.21) Bgrd 575(6.16)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 201

m/z	Y	m/z	Y	m/z	Y	m/z	Y
91.00	1372	159.00	273	224.00	20304	354.00	691
92.00	1297	160.00	1016	225.00	5220	365.00	3494
93.00	7854	161.00	1558	226.00	862	366.00	360
94.00	428	162.00	510	227.00	9440	372.00	1519
96.00	453	165.00	1478	228.00	1466	383.00	242
97.00	193	166.00	1126	229.00	2439	402.00	490
98.00	5175	167.00	6273	231.00	817	403.00	489
99.00	4716	168.00	4294	234.00	460	421.00	414
100.00	521	169.00	641	235.00	604	422.00	499
101.00	2290	172.00	902	236.00	489	423.00	3654
103.00	973	173.00	938	237.00	620	424.00	911
104.00	1758	174.00	1678	239.00	270	441.00	10734
105.00	1558	175.00	2454	241.00	258	442.00	80600
106.00	373	176.00	798	242.00	1074	443.00	15866
107.00	21664	177.00	1605	243.00	988	444.00	1461
108.00	2752	178.00	293	244.00	14338		
110.00	36000	179.00	5856	245.00	2006		
111.00	5217	180.00	3846	246.00	3168		

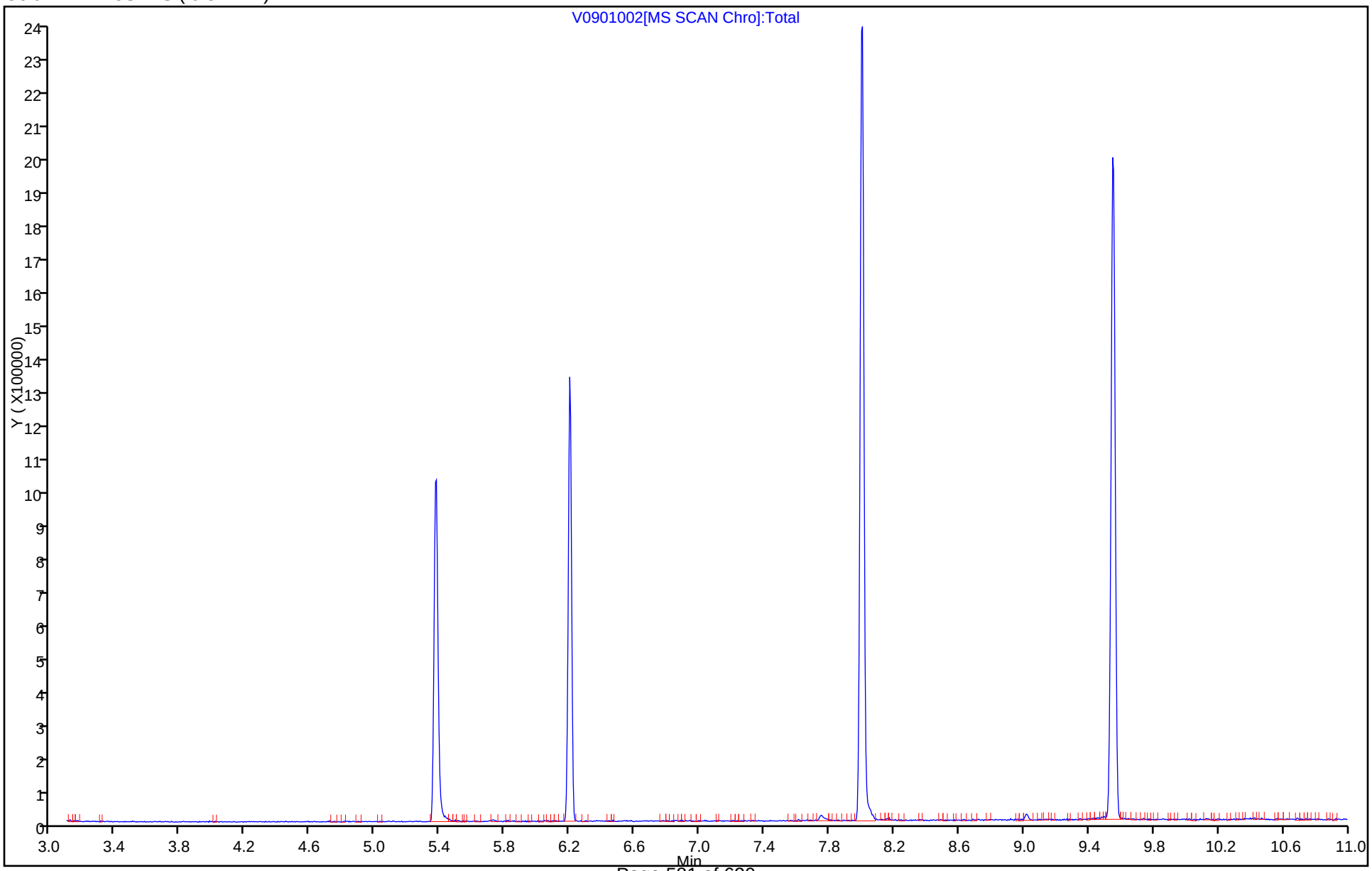
Report Date: 01-Sep-2015 04:26:23 Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CH731\20150831-8349.b\V0901002.D

Injection Date:	31-Aug-2015 13:24:30	Instrument ID:	CH731	Operator ID:	003200
Lims ID:	DFTPP			Worklist Smp#:	2
Client ID:					
Injection Vol:	2.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	BNA_CH731	Limit Group:	BNA 8270D ICAL		

Column: Rxi-5SilMS (0.32 mm)

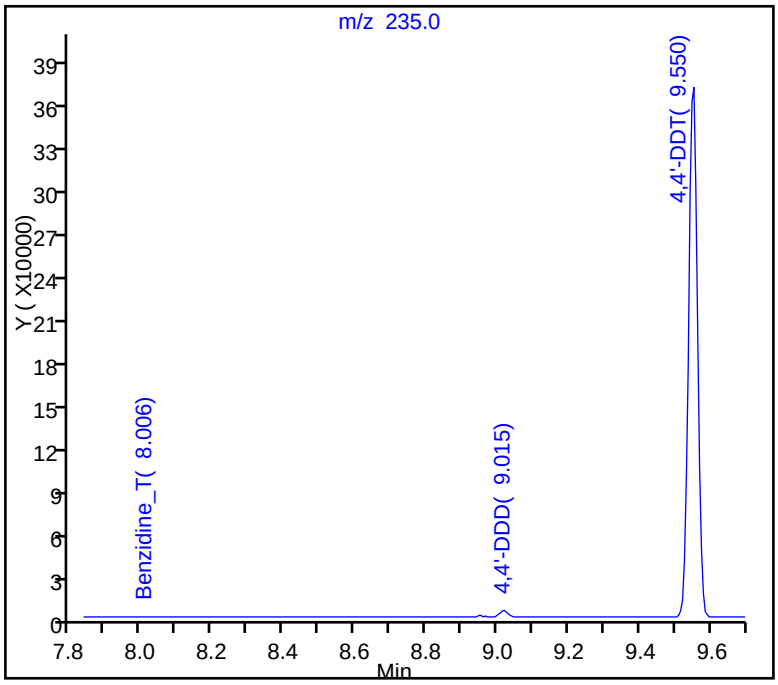


Breakdown Report

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CH731\20150831-8349.b\V0901002.D
Injection Date: 31-Aug-2015 13:24:30 Instrument ID: CH731
Lims ID: DFTPP
Client ID:
Operator ID: 003200 ALS Bottle#: 1 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: BNA_CH731 Limit Group: BNA 8270D ICAL

203 4,4'-DDT, Detector: MS SCAN



SW-846 Method

%Breakdown =
(Area Breakdown Cpnds/
Total Area Breakdown Cpnds) * 100

203 4,4'-DDT, Area = 649669
201 4,4'-DDE, Area = 0
202 4,4'-DDD, Area = 7061

%Breakdown: 1.08%, Max Limit: 20.00%
Passed

Peak Tailing Report

TestAmerica Pittsburgh

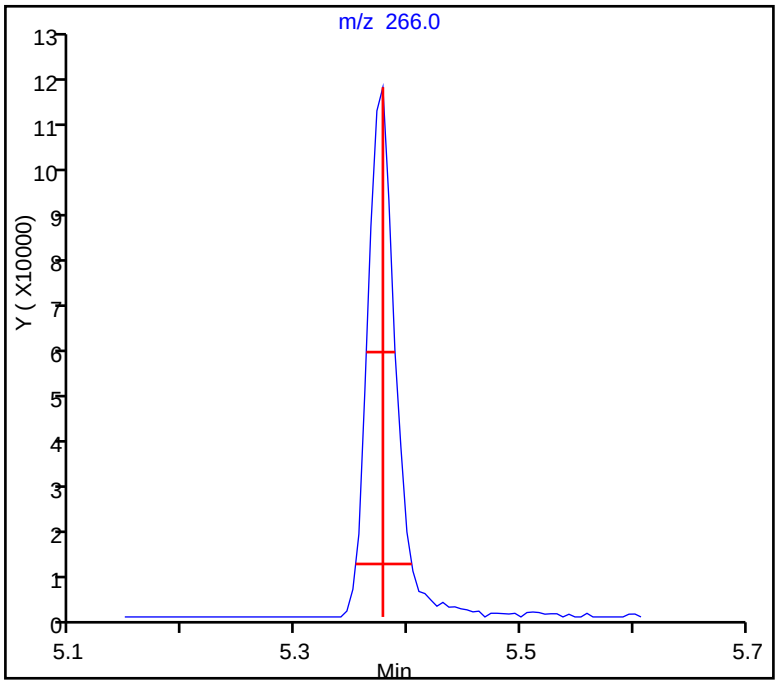
Data File: \\ChromNA\Pittsburgh\ChromData\CH731\20150831-8349.b\V0901002.D
Injection Date: 31-Aug-2015 13:24:30 Instrument ID: CH731
Lims ID: DFTPP
Client ID:
Operator ID: 003200 ALS Bottle#: 1 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: BNA_CH731 Limit Group: BNA 8270D ICAL

198 Pentachlorophenol_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.026 (min.)
Front Width = 0.024 (min.)

Tailing Factor = 1.1, Max. Tailing < 2.00
Passed



Peak Tailing Report

TestAmerica Pittsburgh

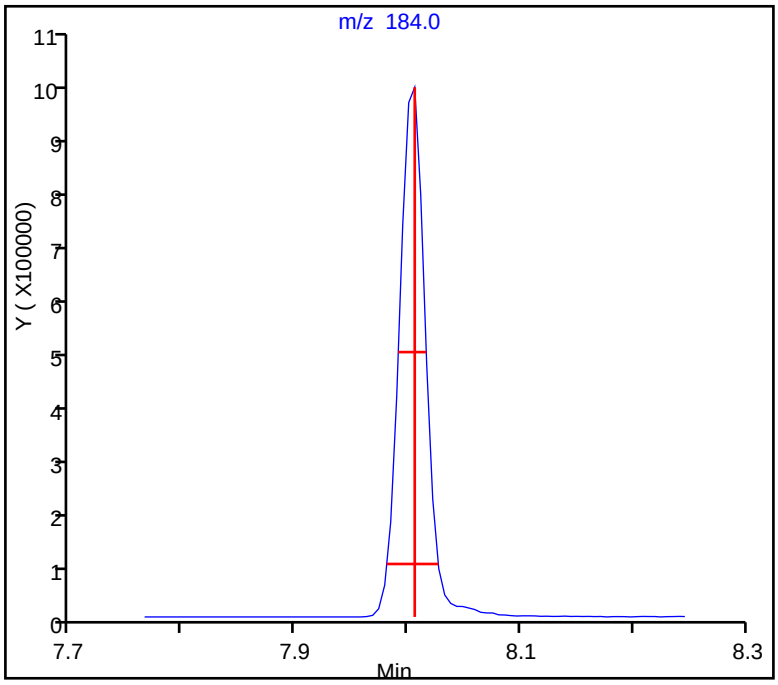
Data File: \\ChromNA\Pittsburgh\ChromData\CH731\20150831-8349.b\V0901002.D
Injection Date: 31-Aug-2015 13:24:30 Instrument ID: CH731
Lims ID: DFTPP
Client ID:
Operator ID: 003200 ALS Bottle#: 1 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: BNA_CH731 Limit Group: BNA 8270D ICAL

200 Benzidine_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.021 (min.)
Front Width = 0.025 (min.)

Tailing Factor = 0.8, Max. Tailing < 2.00
Passed



TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CH731\20151009-8910.b\V1009002.D
Lims ID: DFTPP
Client ID:
Sample Type: DFTPP
Inject. Date: 09-Oct-2015 09:01:30 ALS Bottle#: 1 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 180-0008910-002
Misc. Info.: DFTPP
Operator ID: 003200 Instrument ID: CH731

Method: \\ChromNA\Pittsburgh\ChromData\CH731\20151009-8910.b\BNA_CH731.m
Limit Group: BNA 8270D ICAL
Last Update: 11-Oct-2015 08:06:46 Calib Date: 01-Sep-2015 07:35:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CH731\20150901-8368.b\V0901N11.D

Column 1 : Rxi-5SilMS (0.32 mm) Det: MS SCAN
Process Host: XAWRK031

First Level Reviewer: piccolinov Date: 09-Oct-2015 11:00:02

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
198 Pentachlorophenol_T	266	5.449	5.449	0.000	90	347203	NR	NR	
199 DFTPP									
200 Benzidine_T	184	8.082	8.082	0.000	99	2255597	NR	NR	
201 4,4'-DDE	246		8.435					ND	
202 4,4'-DDD	235	9.108	9.028	0.080	95	11745		NR	
203 4,4'-DDT	235	9.647	9.647	0.000	97	1136417	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

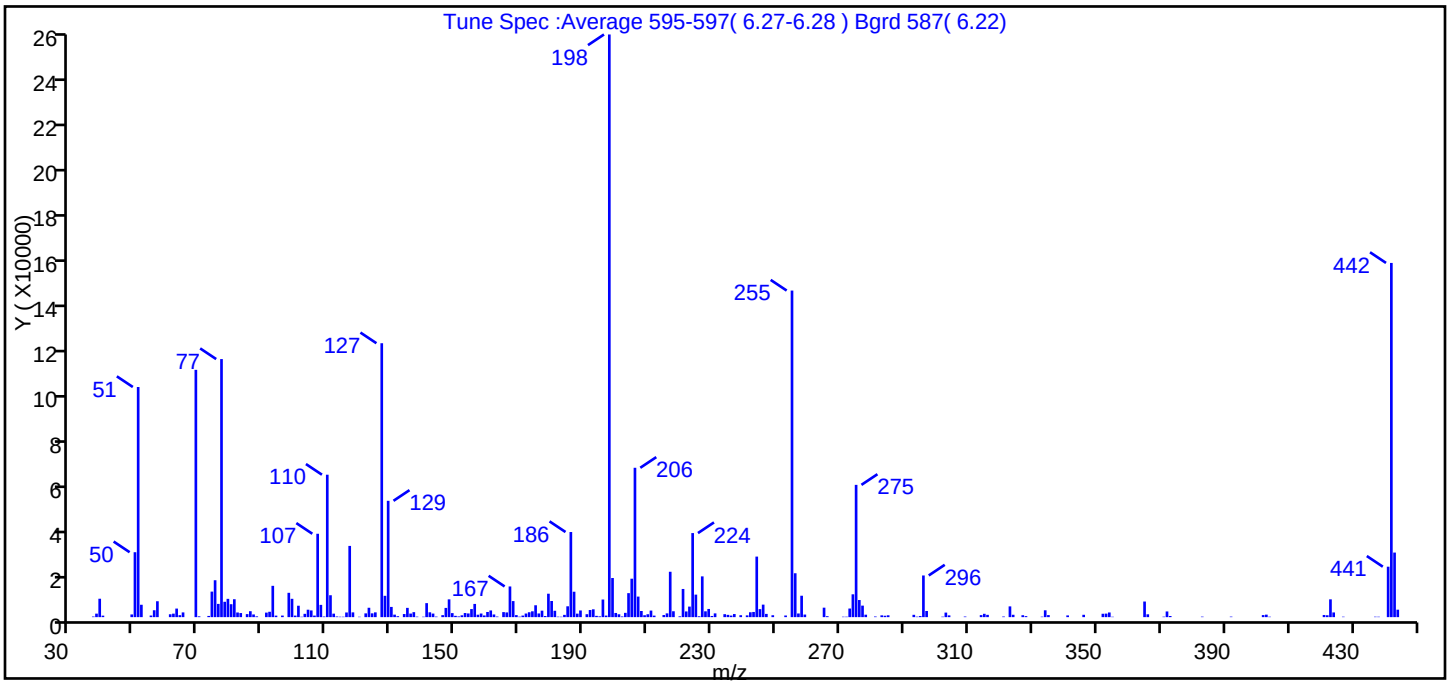
SVDFTPP50i_00023 Amount Added: 1.00 Units: mL

MS Tune Report

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CH731\20151009-8910.b\V1009002.D
Injection Date: 09-Oct-2015 09:01:30 Instrument ID: CH731
Lims ID: DFTPP
Client ID:
Operator ID: 003200 ALS Bottle#: 1 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: BNA_CH731 Limit Group: BNA 8270D ICAL
Tune Method: DFTPP Method 8270

199 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	Base peak, 100% relative abundance	100.0
51	30-60% of mass 198	39.5
68	<2% of mass 69	0.0 (0.0)
69	Present	42.4
70	<2% of mass 69	0.1 (0.3)
127	40-60% of mass 198	47.0
197	<1% of mass 198	0.3
199	5-9% of mass 198	6.7
275	10-30% of mass 198	22.7
365	>1% of mass 198	2.7
441	Present but less than mass 443	8.7 (78.1)
442	>40% of mass 198	60.8
443	17-23% of mass 442	11.1 (18.2)

Data File: \\ChromNA\Pittsburgh\ChromData\CH731\20151009-8910.b\V1009002.D\BNA_CH731.rslt\spectra.d
Injection Date: 09-Oct-2015 09:01:30
Spectrum: Tune Spec :Average 595-597(6.27-6.28) Bgrd 587(6.22)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 241

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	266	123.00	4064	189.00	2892	272.00	191
38.00	1517	124.00	1652	191.00	1272	273.00	3730
39.00	7973	125.00	2071	192.00	3084	274.00	9891
40.00	647	127.00	118632	193.00	3394	275.00	57288
49.00	1169	128.00	9236	194.00	562	276.00	7411
50.00	28120	129.00	50384	195.00	342	277.00	4988
51.00	99672	130.00	4425	196.00	7630	278.00	1062
52.00	5362	131.00	1084	197.00	669	281.00	276
55.00	698	132.00	407	198.00	252352	283.00	780
56.00	2984	134.00	1344	199.00	16944	284.00	610
57.00	6888	135.00	4015	200.00	1813	285.00	798
61.00	1247	136.00	1547	201.00	1238	293.00	1010
62.00	1514	137.00	2159	202.00	298	294.00	202
63.00	3711	138.00	216	203.00	1860	295.00	461
64.00	851	140.00	187	204.00	10394	296.00	18048
65.00	2054	141.00	6066	205.00	16648	297.00	2659
69.00	107104	142.00	2097	206.00	64688	302.00	203
70.00	345	143.00	1543	207.00	8898	303.00	1970
73.00	524	144.00	226	208.00	2666	304.00	763
74.00	11059	146.00	862	209.00	827	309.00	258
75.00	15983	147.00	3997	210.00	1249	314.00	877
76.00	5736	148.00	7706	211.00	2844	315.00	1447
77.00	111768	149.00	1747	212.00	657	316.00	994
78.00	6648	150.00	568	215.00	914	321.00	266
79.00	7923	151.00	307	216.00	1634	323.00	4660
80.00	5603	152.00	794	217.00	19656	324.00	1027
81.00	7758	153.00	1785	218.00	2551	327.00	834
82.00	2014	154.00	1598	220.00	342	328.00	441
83.00	1772	155.00	3500	221.00	12203	333.00	202
85.00	1310	156.00	5724	222.00	2472	334.00	2966
86.00	2569	157.00	1052	223.00	4570	335.00	887
87.00	1166	158.00	1572	224.00	36408	341.00	749
88.00	336	159.00	725	225.00	9755	346.00	1019

Report Date: 11-Oct-2015 08:06:46 Chrom Revision: 2.2 08-Sep-2015 13:41:46
Data File: \\ChromNA\Pittsburgh\ChromData\CH731\20151009-8910.b\V1009002.D\BNA_CH731.rslt\spectra.d
Injection Date: 09-Oct-2015 09:01:30
Spectrum: Tune Spec :Average 595-597(6.27-6.28) Bgrd 587(6.22)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 241

m/z	Y	m/z	Y	m/z	Y	m/z	Y
91.00	1964	160.00	2236	226.00	377	352.00	1469
92.00	2328	161.00	2898	227.00	17656	353.00	1526
93.00	13560	162.00	1157	228.00	2524	354.00	2021
94.00	657	163.00	256	229.00	3544	355.00	170
96.00	680	165.00	2179	230.00	509	365.00	6764
98.00	10537	166.00	2041	231.00	1626	366.00	1228
99.00	7943	167.00	13290	234.00	1285	371.00	202
100.00	668	168.00	6955	235.00	990	372.00	2464
101.00	4945	169.00	879	236.00	682	373.00	495
102.00	167	170.00	206	237.00	1345	383.00	219
103.00	1433	171.00	682	239.00	834	392.00	229
104.00	3220	172.00	1564	241.00	772	402.00	892
105.00	2907	173.00	2117	242.00	2113	403.00	1081
106.00	672	174.00	2531	243.00	2243	404.00	192
107.00	36112	175.00	5143	244.00	26224	421.00	935
108.00	5314	176.00	1595	245.00	3470	422.00	814
109.00	265	177.00	2805	246.00	5422	423.00	7712
110.00	61688	178.00	483	247.00	1403	424.00	2038
111.00	9481	179.00	10149	249.00	823	427.00	192
112.00	1511	180.00	6992	253.00	710	437.00	193
113.00	283	181.00	2756	255.00	141440	438.00	182
114.00	184	182.00	207	256.00	19008	441.00	21848
115.00	185	183.00	171	257.00	1580	442.00	153408
116.00	2022	184.00	985	258.00	9274	443.00	27968
117.00	30848	185.00	4700	259.00	1121	444.00	3229
118.00	2068	186.00	36864	265.00	4101		
120.00	168	187.00	11009	266.00	406		
122.00	1633	188.00	1514	271.00	189		

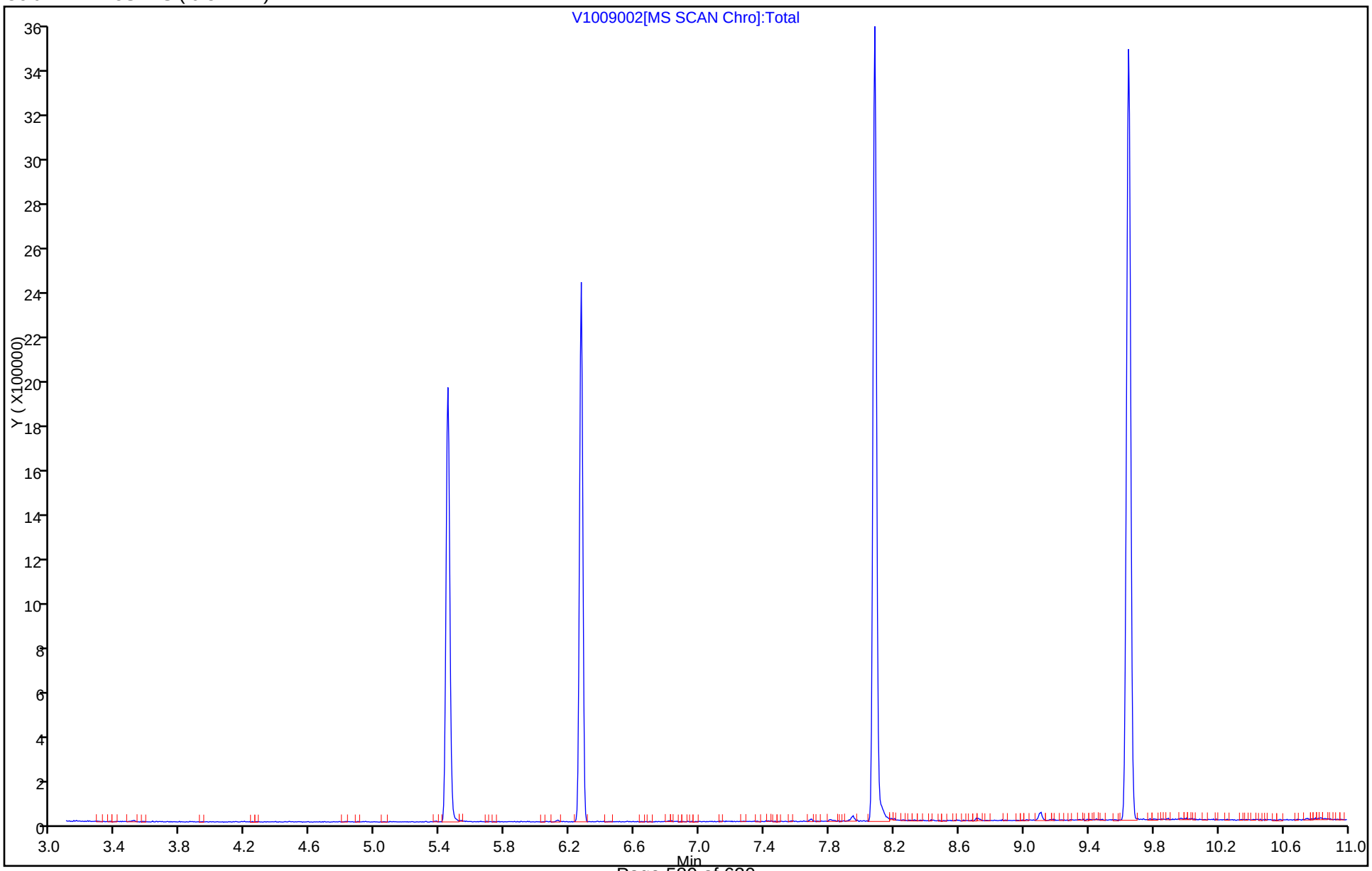
Report Date: 11-Oct-2015 08:06:46 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CH731\20151009-8910.b\V1009002.D

Injection Date:	09-Oct-2015 09:01:30	Instrument ID:	CH731	Operator ID:	003200
Lims ID:	DFTPP			Worklist Smp#:	2
Client ID:					
Injection Vol:	2.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	BNA_CH731	Limit Group:	BNA 8270D ICAL		

Column: Rxi-5SilMS (0.32 mm)

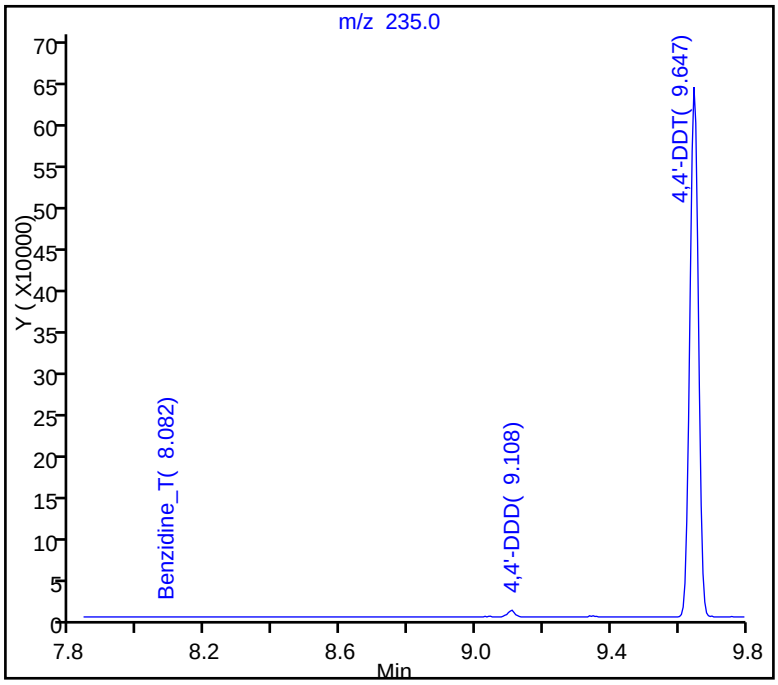


Breakdown Report

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CH731\20151009-8910.b\V1009002.D
Injection Date: 09-Oct-2015 09:01:30 Instrument ID: CH731
Lims ID: DFTPP
Client ID:
Operator ID: 003200 ALS Bottle#: 1 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: BNA_CH731 Limit Group: BNA 8270D ICAL

203 4,4'-DDT, Detector: MS SCAN



SW-846 Method

%Breakdown =
(Area Breakdown Cpnds/
Total Area Breakdown Cpnds) * 100

203 4,4'-DDT, Area = 1136417
201 4,4'-DDE, Area = 0
202 4,4'-DDD, Area = 11745

%Breakdown: 1.02%, Max Limit: 20.00%
Passed

Peak Tailing Report

TestAmerica Pittsburgh

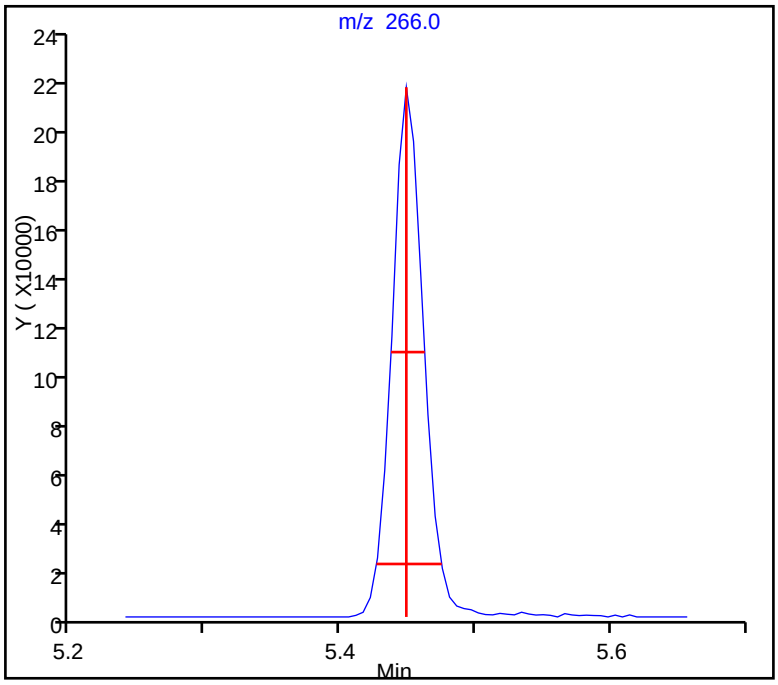
Data File: \\ChromNA\Pittsburgh\ChromData\CH731\20151009-8910.b\V1009002.D
Injection Date: 09-Oct-2015 09:01:30 Instrument ID: CH731
Lims ID: DFTPP
Client ID:
Operator ID: 003200 ALS Bottle#: 1 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: BNA_CH731 Limit Group: BNA 8270D ICAL

198 Pentachlorophenol_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.026 (min.)
Front Width = 0.022 (min.)

Tailing Factor = 1.2, Max. Tailing < 2.00
Passed



Peak Tailing Report

TestAmerica Pittsburgh

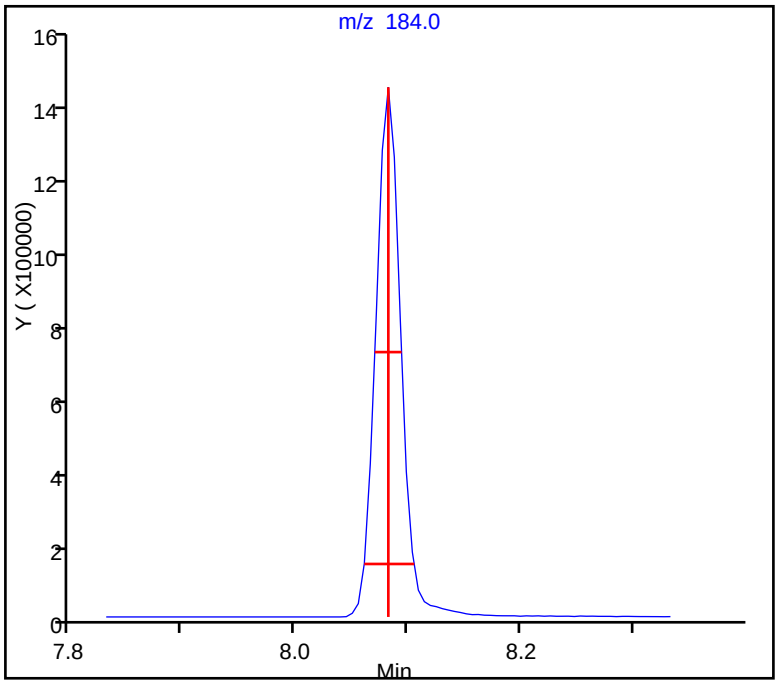
Data File: \\ChromNA\Pittsburgh\ChromData\CH731\20151009-8910.b\V1009002.D
Injection Date: 09-Oct-2015 09:01:30 Instrument ID: CH731
Lims ID: DFTPP
Client ID:
Operator ID: 003200 ALS Bottle#: 1 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: BNA_CH731 Limit Group: BNA 8270D ICAL

200 Benzidine_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.023 (min.)
Front Width = 0.021 (min.)

Tailing Factor = 1.1, Max. Tailing < 2.00
Passed



TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CH731\20151011-8939.b\V1011002.D
Lims ID: DFTPP
Client ID:
Sample Type: DFTPP
Inject. Date: 11-Oct-2015 09:16:30 ALS Bottle#: 1 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 180-0008939-002
Misc. Info.: DFTPP
Operator ID: 003200 Instrument ID: CH731

Method: \\ChromNA\Pittsburgh\ChromData\CH731\20151011-8939.b\BNA_CH731.m
Limit Group: BNA 8270D ICAL
Last Update: 12-Oct-2015 06:37:48 Calib Date: 01-Sep-2015 07:35:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CH731\20150901-8368.b\V0901N11.D

Column 1 : Rxi-5SilMS (0.32 mm) Det: MS SCAN
Process Host: XAWRK051

First Level Reviewer: piccolinov Date: 12-Oct-2015 05:04:23

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
198 Pentachlorophenol_T	266	5.441	5.441	0.000	90	408902	NR	NR	
199 DFTPP									
200 Benzidine_T	184	8.058	8.058	0.000	99	2889921	NR	NR	
201 4,4'-DDE	246		8.431				ND		
202 4,4'-DDD	235	9.015	9.028	-0.013	1	2110		NR	
203 4,4'-DDT	235	9.618	9.618	0.000	98	1403762	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

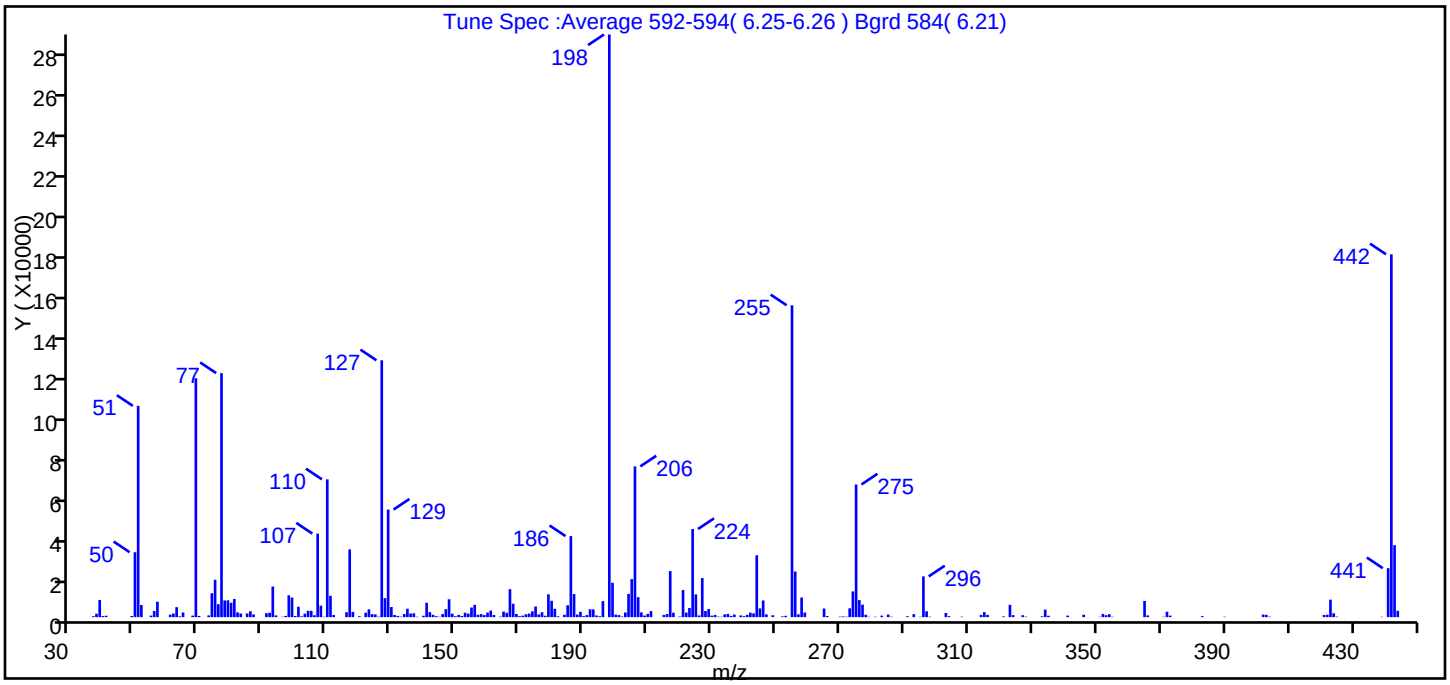
SVDFTPP50i_00023 Amount Added: 1.00 Units: mL

MS Tune Report

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CH731\20151011-8939.b\V1011002.D
Injection Date: 11-Oct-2015 09:16:30 Instrument ID: CH731
Lims ID: DFTPP
Client ID:
Operator ID: 003200 ALS Bottle#: 1 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: BNA_CH731 Limit Group: BNA 8270D ICAL
Tune Method: DFTPP Method 8270

199 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	Base peak, 100% relative abundance	100.0
51	30-60% of mass 198	36.3
68	<2% of mass 69	0.3 (0.6)
69	Present	41.0
70	<2% of mass 69	0.2 (0.5)
127	40-60% of mass 198	44.1
197	<1% of mass 198	0.0
199	5-9% of mass 198	5.9
275	10-30% of mass 198	22.8
365	>1% of mass 198	2.8
441	Present but less than mass 443	8.4 (68.0)
442	>40% of mass 198	62.3
443	17-23% of mass 442	12.4 (19.8)

Data File: \\ChromNA\Pittsburgh\ChromData\CH731\20151011-8939.b\V1011002.D\BNA_CH731.rslt\spectra.d
Injection Date: 11-Oct-2015 09:16:30
Spectrum: Tune Spec :Average 592-594(6.25-6.26) Bgrd 584(6.21)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 247

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	469	125.00	1321	190.00	492	270.00	248
38.00	1671	126.00	232	191.00	990	271.00	327
39.00	8301	127.00	124136	192.00	3805	272.00	216
40.00	528	128.00	9181	193.00	3737	273.00	4270
41.00	682	129.00	51984	194.00	803	274.00	12447
49.00	545	130.00	4892	195.00	439	275.00	64112
50.00	31376	131.00	1020	196.00	7736	276.00	8232
51.00	102112	132.00	607	198.00	281600	277.00	6030
52.00	5877	133.00	226	199.00	16608	278.00	1143
55.00	763	134.00	1515	200.00	1210	279.00	176
56.00	2955	135.00	4064	201.00	988	281.00	196
57.00	7442	136.00	1761	202.00	300	283.00	736
61.00	1212	137.00	1871	203.00	2252	285.00	1268
62.00	1757	138.00	200	204.00	11249	286.00	206
63.00	4840	140.00	686	205.00	18392	291.00	452
64.00	384	141.00	6955	206.00	72848	293.00	1439
65.00	2245	142.00	2425	207.00	9652	295.00	185
68.00	731	143.00	1113	208.00	2295	296.00	19696
69.00	115456	144.00	499	209.00	783	297.00	2829
70.00	601	145.00	173	210.00	1592	298.00	226
73.00	845	146.00	1473	211.00	2941	303.00	2025
74.00	11566	147.00	3857	215.00	1082	304.00	481
75.00	18056	148.00	8643	216.00	1493	308.00	234
76.00	6264	149.00	1676	217.00	22264	314.00	1066
77.00	117944	150.00	456	218.00	2152	315.00	2429
78.00	8080	151.00	1105	220.00	288	316.00	1099
79.00	8132	152.00	558	221.00	13088	321.00	373
80.00	6953	153.00	2142	222.00	2225	323.00	5960
81.00	8793	154.00	1706	223.00	4418	324.00	969
82.00	2301	155.00	4643	224.00	42584	327.00	927
83.00	1748	156.00	5907	225.00	10973	328.00	226
85.00	1794	157.00	1122	226.00	805	333.00	384
86.00	2855	158.00	1488	227.00	18880	334.00	3629

Report Date: 12-Oct-2015 06:37:48 Chrom Revision: 2.2 08-Sep-2015 13:41:46
Data File: \\ChromNA\Pittsburgh\ChromData\CH731\20151011-8939.b\V1011002.D\BNA_CH731.rslt\spectra.d
Injection Date: 11-Oct-2015 09:16:30
Spectrum: Tune Spec :Average 592-594(6.25-6.26) Bgrd 584(6.21)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 247

m/z	Y	m/z	Y	m/z	Y	m/z	Y
87.00	1324	159.00	991	228.00	2983	335.00	679
91.00	1909	160.00	2202	229.00	3936	341.00	745
92.00	2100	161.00	3159	230.00	726	346.00	1157
93.00	14802	162.00	1028	231.00	1056	351.00	176
94.00	848	164.00	243	232.00	237	352.00	1553
96.00	169	165.00	2688	233.00	202	353.00	958
97.00	609	166.00	2100	234.00	1313	354.00	1418
98.00	10550	167.00	13530	235.00	1567	355.00	181
99.00	9463	168.00	6473	236.00	599	365.00	7822
100.00	548	169.00	1546	237.00	1279	366.00	838
101.00	5045	170.00	478	239.00	843	371.00	192
102.00	385	171.00	730	240.00	472	372.00	2594
103.00	1666	172.00	1388	241.00	1095	373.00	736
104.00	3084	173.00	1695	242.00	2166	383.00	497
105.00	3064	174.00	2828	243.00	1822	390.00	192
106.00	923	175.00	5121	244.00	29896	402.00	1255
107.00	40376	176.00	1318	245.00	4220	403.00	1112
108.00	5551	177.00	2373	246.00	8060	404.00	224
109.00	190	178.00	675	247.00	1322	421.00	1081
110.00	66592	179.00	11030	249.00	908	422.00	1163
111.00	10309	180.00	7890	252.00	369	423.00	8444
112.00	1024	181.00	4036	253.00	626	424.00	1848
116.00	2381	182.00	434	255.00	150720	425.00	259
117.00	32736	184.00	1138	256.00	22040	439.00	178
118.00	2532	185.00	5738	257.00	1361	441.00	23664
120.00	435	186.00	39168	258.00	9457	442.00	175360
122.00	2124	187.00	11141	259.00	2227	443.00	34784
123.00	3758	188.00	1237	265.00	4175	444.00	3037
124.00	1446	189.00	2570	266.00	530		

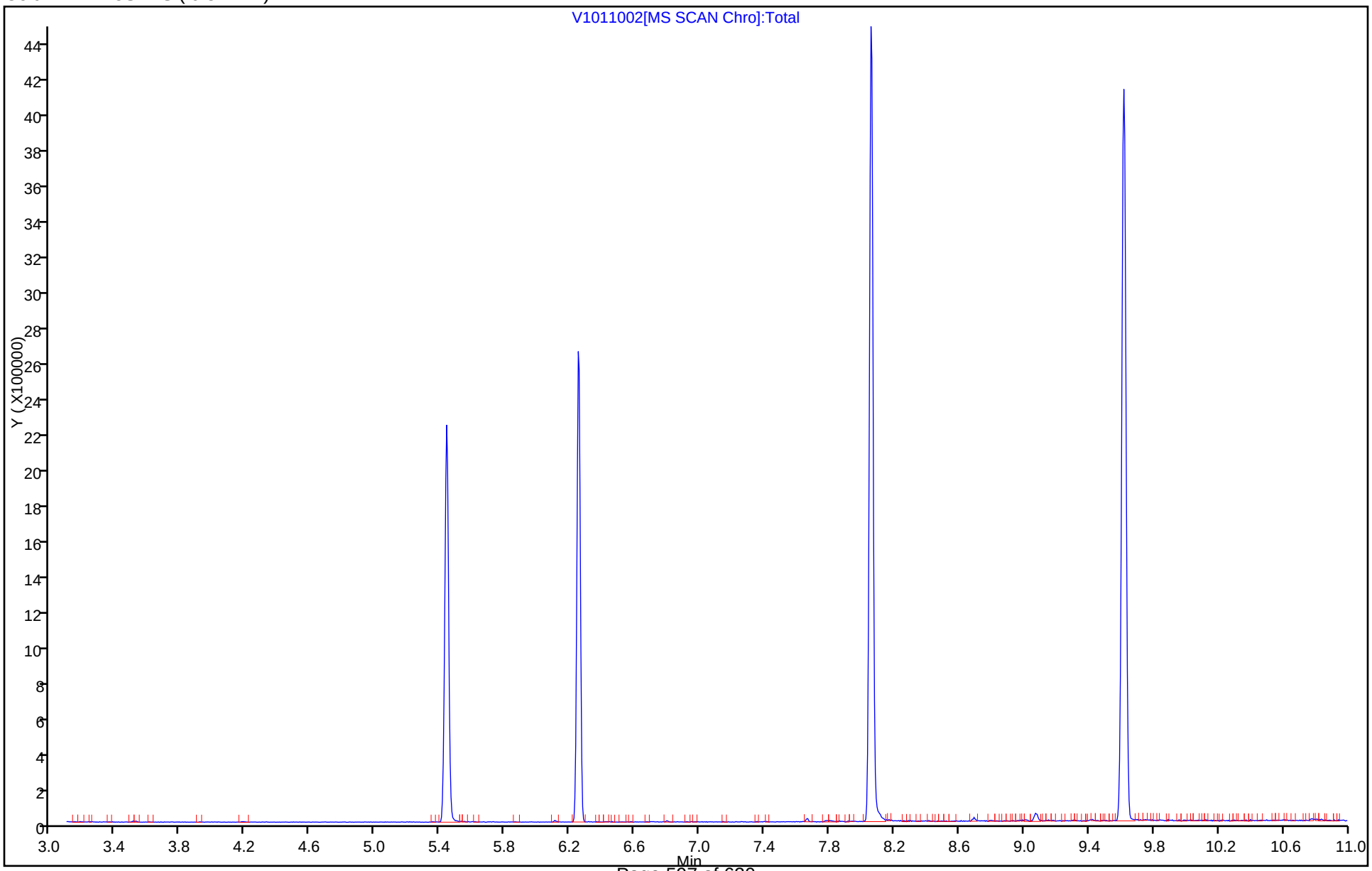
Report Date: 12-Oct-2015 06:37:48 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CH731\20151011-8939.b\V1011002.D

Injection Date:	11-Oct-2015 09:16:30	Instrument ID:	CH731	Operator ID:	003200
Lims ID:	DFTPP			Worklist Smp#:	2
Client ID:					
Injection Vol:	2.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	BNA_CH731	Limit Group:	BNA 8270D ICAL		

Column: Rxi-5SilMS (0.32 mm)

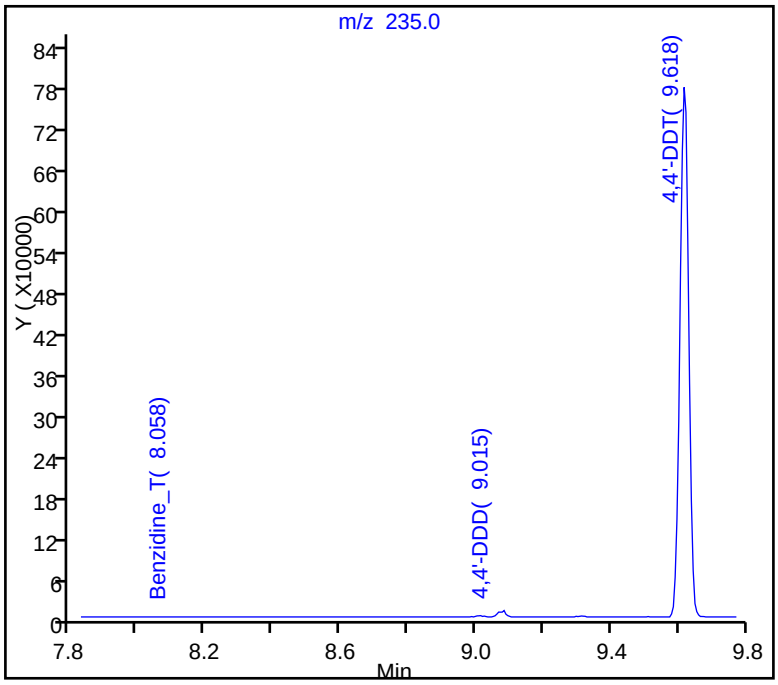


Breakdown Report

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CH731\20151011-8939.b\V1011002.D
Injection Date: 11-Oct-2015 09:16:30 Instrument ID: CH731
Lims ID: DFTPP
Client ID:
Operator ID: 003200 ALS Bottle#: 1 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: BNA_CH731 Limit Group: BNA 8270D ICAL

203 4,4'-DDT, Detector: MS SCAN



SW-846 Method

%Breakdown =
(Area Breakdown Cpnds/
Total Area Breakdown Cpnds) * 100

203 4,4'-DDT, Area = 1403762
201 4,4'-DDE, Area = 0
202 4,4'-DDD, Area = 2110

%Breakdown: 0.15%, Max Limit: 20.00%
Passed

Peak Tailing Report

TestAmerica Pittsburgh

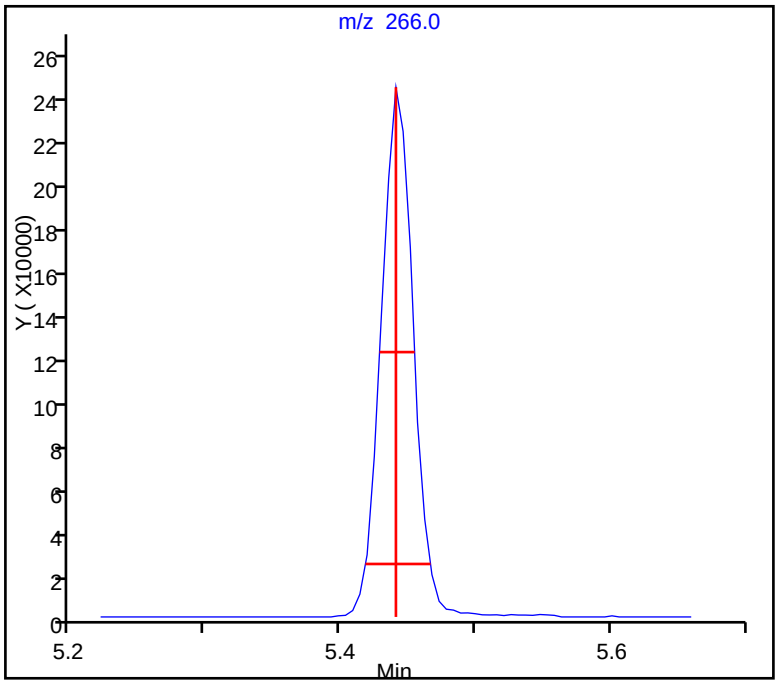
Data File: \\ChromNA\Pittsburgh\ChromData\CH731\20151011-8939.b\V1011002.D
Injection Date: 11-Oct-2015 09:16:30 Instrument ID: CH731
Lims ID: DFTPP
Client ID:
Operator ID: 003200 ALS Bottle#: 1 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: BNA_CH731 Limit Group: BNA 8270D ICAL

198 Pentachlorophenol_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.026 (min.)
Front Width = 0.023 (min.)

Tailing Factor = 1.1, Max. Tailing < 2.00
Passed



Peak Tailing Report

TestAmerica Pittsburgh

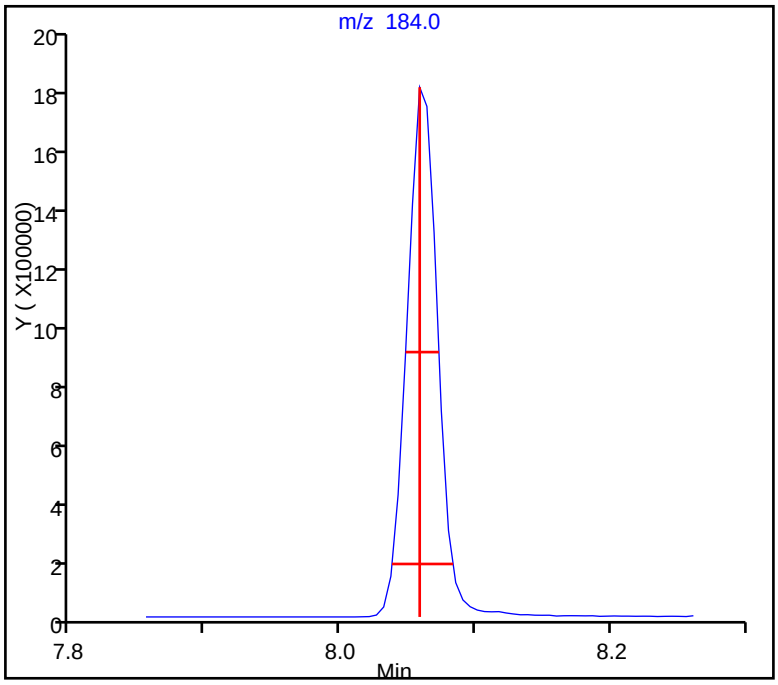
Data File: \\ChromNA\Pittsburgh\ChromData\CH731\20151011-8939.b\V1011002.D
Injection Date: 11-Oct-2015 09:16:30 Instrument ID: CH731
Lims ID: DFTPP
Client ID:
Operator ID: 003200 ALS Bottle#: 1 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: BNA_CH731 Limit Group: BNA 8270D ICAL

200 Benzidine_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.025 (min.)
Front Width = 0.021 (min.)

Tailing Factor = 1.2, Max. Tailing < 2.00
Passed



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-48309-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 180-156027/1-A

Matrix: Water | Lab File ID: V1009004.D

Analysis Method: 8270D LL | Date Collected:

Extract. Method: 3520C | Date Extracted: 10/06/2015 10:44

Sample wt/vol: 250(mL) | Date Analyzed: 10/09/2015 09:46

Con. Extract Vol.: 0.25(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 156466 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	ND		2.0	0.052

CAS NO.	SURROGATE	%REC	Q	LIMITS
321-60-8	2-Fluorobiphenyl	60		28-109
367-12-4	2-Fluorophenol (Surr)	64		20-105
118-79-6	2,4,6-Tribromophenol (Surr)	58		30-118
4165-60-0	Nitrobenzene-d5 (Surr)	62		27-114
4165-62-2	Phenol-d5 (Surr)	64		25-105
1718-51-0	Terphenyl-d14 (Surr)	71		20-118

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CH731\20151009-8910.b\V1009004.D
Lims ID: MB 180-156027/1-A
Client ID:
Sample Type: MB
Inject. Date: 09-Oct-2015 09:46:30 ALS Bottle#: 3 Worklist Smp#: 4
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 180-0008910-004
Operator ID: 003200 Instrument ID: CH731

Method: \\ChromNA\Pittsburgh\ChromData\CH731\20151009-8910.b\BNA_CH731.m
Limit Group: BNA 8270D ICAL
Last Update: 11-Oct-2015 08:06:48 Calib Date: 01-Sep-2015 07:35:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CH731\20150901-8368.b\V0901N11.D

Column 1 : Rxi-5SilMS (0.32 mm) Det: MS SCAN
Process Host: XAWRK031

First Level Reviewer: piccolinov Date: 09-Oct-2015 13:50:49

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.307	6.310	-0.003	94	182230	8.00	8.00	
* 2 Naphthalene-d8	136	7.535	7.539	-0.004	100	765778	8.00	8.00	
* 3 Acenaphthene-d10	164	9.175	9.179	-0.004	92	506044	8.00	8.00	
* 4 Phenanthrene-d10	188	10.564	10.573	-0.009	97	955168	8.00	8.00	
* 5 Chrysene-d12	240	14.176	14.184	-0.008	97	873334	8.00	8.00	
* 6 Perylene-d12	264	17.162	17.171	-0.009	98	675530	8.00	8.00	
$ 7 2-Fluorophenol	112	4.902	4.900	0.002	92	685156	40.0	25.5	
$ 8 Phenol-d5	99	5.943	5.941	0.002	95	902287	40.0	25.8	
$ 9 Nitrobenzene-d5	82	6.841	6.844	-0.003	92	920148	40.0	24.7	
$ 10 2-Fluorobiphenyl	172	8.534	8.538	-0.004	100	2116032	40.0	23.9	
$ 11 2,4,6-Tribromophenol	330	9.907	9.911	-0.004	90	308492	40.0	23.3	
$ 12 Terphenyl-d14	244	12.386	12.389	-0.003	99	2344571	40.0	28.3	
13 1,4-Dioxane	88		1.502					ND	
14 N-Nitrosodimethylamine	74		2.159					ND	
15 Pyridine	79		2.234					ND	
16 Dimethylformamide	73		3.147					ND	
18 Dibromoacetonitrile	120		3.590					ND	
19 2-Picoline	93		4.030					ND	
20 N-Nitrosomethylethylamine	88		4.233					ND	
21 Acrylamide	71	4.896	4.597	0.300	26	3219			NC
22 Methyl methanesulfonate	80		4.649					ND	
23 Phenylmercaptan	110	4.902	5.000	-0.098	44	3142			NC
24 N-Nitrosodiethylamine	102		5.115					ND	
25 Ethyl methanesulfonate	79		5.517					ND	
26 Benzaldehyde	77		5.851					ND	
27 Phenol	94		5.957					ND	
28 Aniline	93		5.968					ND	
30 Pentachloroethane	167		6.025					ND	
29 Bis(2-chloroethyl)ether	93		6.038					ND	
31 2-Chlorophenol	128		6.096					ND	
32 n-Decane	43		6.160					ND	
33 1,3-Dichlorobenzene	146		6.251					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
34 1,4-Dichlorobenzene	146		6.326					ND	
35 1,2,3-Trimethylbenzene	105		6.341					ND	
36 Benzyl alcohol	108		6.438					ND	
37 1,2-Dichlorobenzene	146		6.476					ND	
38 2-Methylphenol	108		6.556					ND	
39 Indene	116		6.567					ND	
40 2,2'-oxybis[1-chloropropan	45		6.577					ND	
42 N-Nitrosomorpholine	116	6.307	6.632	-0.325	41	7275			NC
46 2-Toluidine	106		6.664					ND	
41 N-Nitrosopyrrolidine	100		6.668					ND	
43 Acetophenone	105		6.695					ND	
44 N-Nitrosodi-n-propylamine	70		6.695					ND	
45 4-Methylphenol	108		6.700					ND	
194 Benzotrichloride TIC	159	9.175	6.750	2.425	0	14866			0
47 Hexachloroethane	117		6.818					ND	
48 Nitrobenzene	77		6.866					ND	
49 N-Nitrosopiperidine	114		6.926					ND	
50 Isophorone	82		7.090					ND	
51 2-Nitrophenol	139		7.170					ND	
54 o,o',o''-Triethylphosphoro	198		7.182					ND	
52 2,4-Dimethylphenol	107		7.202					ND	
53 4-Chloro-3-nitro-alpha,alp	179		7.228					ND	
56 Benzoic acid	122		7.256					ND	
55 Bis(2-chloroethoxy)methane	93		7.288					ND	
58 alpha,alpha-Dimethyl phene	58	7.541	7.353	0.188	26	966			NC
57 2,4-Dichlorophenol	162		7.400					ND	
59 1,2,4-Trichlorobenzene	180		7.485					ND	
60 Naphthalene	128		7.560					ND	
62 4-Chloroaniline	127		7.598					ND	
63 2,6-Dichlorophenol	162		7.614					ND	
65 Hexachloropropene	213		7.627					ND	
64 Hexachlorobutadiene	225		7.683					ND	
66 Quinoline	129		7.786					ND	
68 N-Nitrosodi-n-butylamine	84		7.818					ND	
69 p-Phenylene diamine	108	7.535	7.834	-0.299	49	93642			NC
67 Caprolactam	113		7.886					ND	
71 Safrole, Total	162		8.026					ND	
70 4-Chloro-3-methylphenol	107		8.036					ND	
74 Diphenamid	168		8.200					ND	
72 2-Methylnaphthalene	142		8.207					ND	
73 Phthalic anhydride	104	8.534	8.211	0.323	34	2210			NC
75 1-Methylnaphthalene	142		8.303					ND	
76 Hexachlorocyclopentadiene	237		8.361					ND	
77 1,2,4,5-Tetrachlorobenzene	216		8.367					ND	
78 2,4,6-Trichlorophenol	196		8.463					ND	
79 2,4,5-Trichlorophenol	196		8.495					ND	
80 1,1'-Biphenyl	154		8.634					ND	
83 1-Chloronaphthalene	162		8.648					ND	
81 2-Chloronaphthalene	162		8.661					ND	
82 2-Nitroaniline	65		8.741					ND	
84 1,4-Dinitrobenzene	168	8.534	8.769	-0.235	31	25983			NC
85 1,4-Naphthoquinone	158	8.534	8.771	-0.237	44	3794			NC

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
86 Dimethyl phthalate	163		8.890					ND	
87 1,3-Dinitrobenzene	168		8.922					ND	
88 2,6-Dinitrotoluene	165		8.954					ND	
89 Acenaphthylene	152		9.051					ND	
90 3-Nitroaniline	138		9.115					ND	
92 2,4-Dinitrophenol	184		9.211					ND	
91 Acenaphthene	153		9.211					ND	
93 4-Nitrophenol	109		9.248					ND	
96 Pentachlorobenzene	250		9.299					ND	
94 2,4-Dinitrotoluene	165		9.328					ND	
98 1-Naphthylamine	143		9.340					ND	
95 Dibenzofuran	168		9.371					ND	
97 2,3,5,6-Tetrachlorophenol	232		9.441					ND	
99 2,3,4,6-Tetrachlorophenol	232		9.478					ND	
100 2-Naphthylamine	143		9.510					ND	
101 Diethyl phthalate	149	9.533	9.537	-0.004	95	10513		0.1227	
102 Hexadecane	57		9.542					ND	
107 N-Nitro-o-toluidine	152	9.907	9.586	0.321	41	4243			NC
103 4-tert-Octylphenol	135	9.181	9.611	-0.430	46	2465			NC
104 4-Chlorophenyl phenyl ethe	204		9.670					ND	
110 Diphenylamine	169	9.907	9.677	0.230	46	13828			NC
105 4-Nitroaniline	138		9.681					ND	
106 Fluorene	166		9.692					ND	
108 4,6-Dinitro-2-methylphenol	198		9.713					ND	
109 N-Nitrosodiphenylamine	169		9.777					ND	
61 Azobenzene	77		9.815					ND	
111 1,2-Diphenylhydrazine	77		9.815					ND	
112 1,3,5-Trinitrobenzene	213		9.896					ND	
113 Phenacetin	108		9.939					ND	
114 Phorate	121		9.944					ND	
115 2,3,7,8-TCDD TIC	322		10.000					ND	
117 Dimethoate	87		10.099					ND	
116 4-Bromophenyl phenyl ether	248		10.124					ND	
118 Hexachlorobenzene	284		10.215					ND	
119 Atrazine	200		10.242					ND	
120 4-Aminobiphenyl	169	10.570	10.265	0.306	59	612			NC
123 Pronamide	173	9.907	10.297	-0.390	56	7488			NC
124 Pentachloronitrobenzene	237		10.302					ND	
122 Pentachlorophenol	266		10.381					ND	
121 n-Octadecane	57		10.386					ND	
125 Disulfoton	88		10.419					ND	
127 Dinoseb	211		10.475					ND	
126 Phenanthrene	178		10.594					ND	
129 Hexachlorophene TIC	198		10.600					ND	
128 Anthracene	178		10.643					ND	
130 Carbazole	167		10.787					ND	
131 Methyl parathion	109		10.793					ND	
132 Di-n-butyl phthalate	149		11.086					ND	
133 Ethyl Parathion	109		11.189					ND	
134 4-Nitroquinoline-1-oxide	190		11.263					ND	
135 Methapyrilene	58		11.317					ND	
136 Isodrin	193		11.661					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
137 Fluoranthene	202		11.919					ND	
138 Benzidine	184		12.048					ND	
140 1,2,3,4 -Tetrachlorobenzen	216	12.386	12.215	0.171	49	4717			NC
139 Pyrene	202		12.229					ND	
141 p-Dimethylamino azobenzene	225	12.381	12.428	-0.047	44	14704			NC
142 Chlorobenzilate	139		12.542					ND	
143 Famphur	218		12.850					ND	
145 3,3'-Dimethylbenzidine	212		12.936					ND	
146 Kepone	272		13.030					ND	
144 Butyl benzyl phthalate	149		13.100					ND	
147 2-Acetylaminofluorene	181		13.363					ND	
148 Thionazin	97		13.789					ND	
150 4,4'-Methylene bis(2-chlor	231		13.881					ND	
149 3,3'-Dichlorobenzidine	252		14.083					ND	
151 Bis(2-ethylhexyl) phthalat	149		14.131					ND	
152 Benzo[a]anthracene	228		14.168					ND	
153 Chrysene	228		14.238					ND	
154 Sulfotepp	97		14.530					ND	
155 6-Methylchrysene	242		14.907					ND	
156 Di-n-octyl phthalate	149		15.466					ND	
157 7,12-Dimethylbenz(a)anthra	256		16.337					ND	
158 Benzo[b]fluoranthene	252		16.353					ND	
159 Benzo[k]fluoranthene	252		16.412					ND	
176 Benzo[e]pyrene	252		16.941					ND	
160 Benzo[a]pyrene	252		17.053					ND	
161 3-Methylcholanthrene	268		17.524					ND	
162 Dibenz[a,h]acridine	279		18.636					ND	
175 Dibenz[a,j]acridine	279		18.982					ND	
163 Indeno[1,2,3-cd]pyrene	276		19.452					ND	
164 Dibenz(a,h)anthracene	278		19.489					ND	
165 Benzo[g,h,i]perylene	276		20.071					ND	
171 Diallate Peak 2	86		0.000					ND	
167 o-Phenylphenol	1		0.000					ND	
178 1-Phenyl-1-(2,4-dimethylph	1		0.000					ND	
174 2-Bromonaphthalene	127		0.000					ND	
187 1,2-Dibromo-3-Chloropropan	157		0.000					ND	
192 4-Chlorobenzoic Acid	139		0.000					ND	
190 Octachlorostyrene	308		0.000					ND	
182 Aramite Peak 2	185		0.000					ND	
177 1-Phenyl-1-(4-methylphenyl	1		0.000					ND	
184 3-Chlorobenzoic Acid	139		0.000					ND	
179 4-Nitrobiphenyl	199		0.000					ND	
191 2,3-Dichlorophenol	162		0.000					ND	
169 Diallate Peak 1	86		0.000					ND	
193 1,2,3,4-Tetrahydronaphthal	104		0.000					ND	
166 2,5-Dichlorophenol	162		0.000					ND	
168 4-Methyl-1-cyclohexanemeth	97		0.000					ND	
180 Aramite Peak 1	185		0.000					ND	
183 Octachlorocyclopentene	307		0.000					ND	
173 3-Methylphenol	1		0.000					ND	
172 4-Chlorophenol	128		0.000					ND	
170 2-Chlorobenzoic Acid	139		0.000					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
185 4-Methyl-1-cyclohexanemeth	97		0.000					ND	
186 n,n'-Dimethylaniline	120		0.000					ND	
189 Benzotrichloride	159		0.000					ND	
196 Trifluralin	306		0.000					ND	
181 Isosafrole	162		0.000					ND	
188 Carbaryl	144		0.000					ND	
198 Pentachlorophenol_T	266		5.449					ND	
200 Benzidine_T	184		8.082					ND	
201 4,4'-DDE	246		8.435					ND	
202 4,4'-DDD	235		9.028					ND	
203 4,4'-DDT	235		9.647					ND	
S 204 Aramite, Total	185		1.000					ND	
S 205 Diallate	86		0.000					ND	
S 206 Total Cresols	108		0.000					ND	
S 207 4-Methyl-1-cyclohexanemeth	97		0.000					ND	
S 208 Methyl Phenols,Total	108		0.000					ND	
T 195 1-Phenyl-1-(2,4-dimethylph	195		9.600					ND	
T 197 1-Phenyl-1-(4-methylphenyl	181		9.700					ND	
T 221 Phenyl ether TIC	170	12.381	11.472	0.881	0	23654		0.3739	
T 209 Quinoline TIC	129		0.000					ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

SVTAPITINTRNi_00009 Amount Added: 1.00 Units: uL Run Reagent

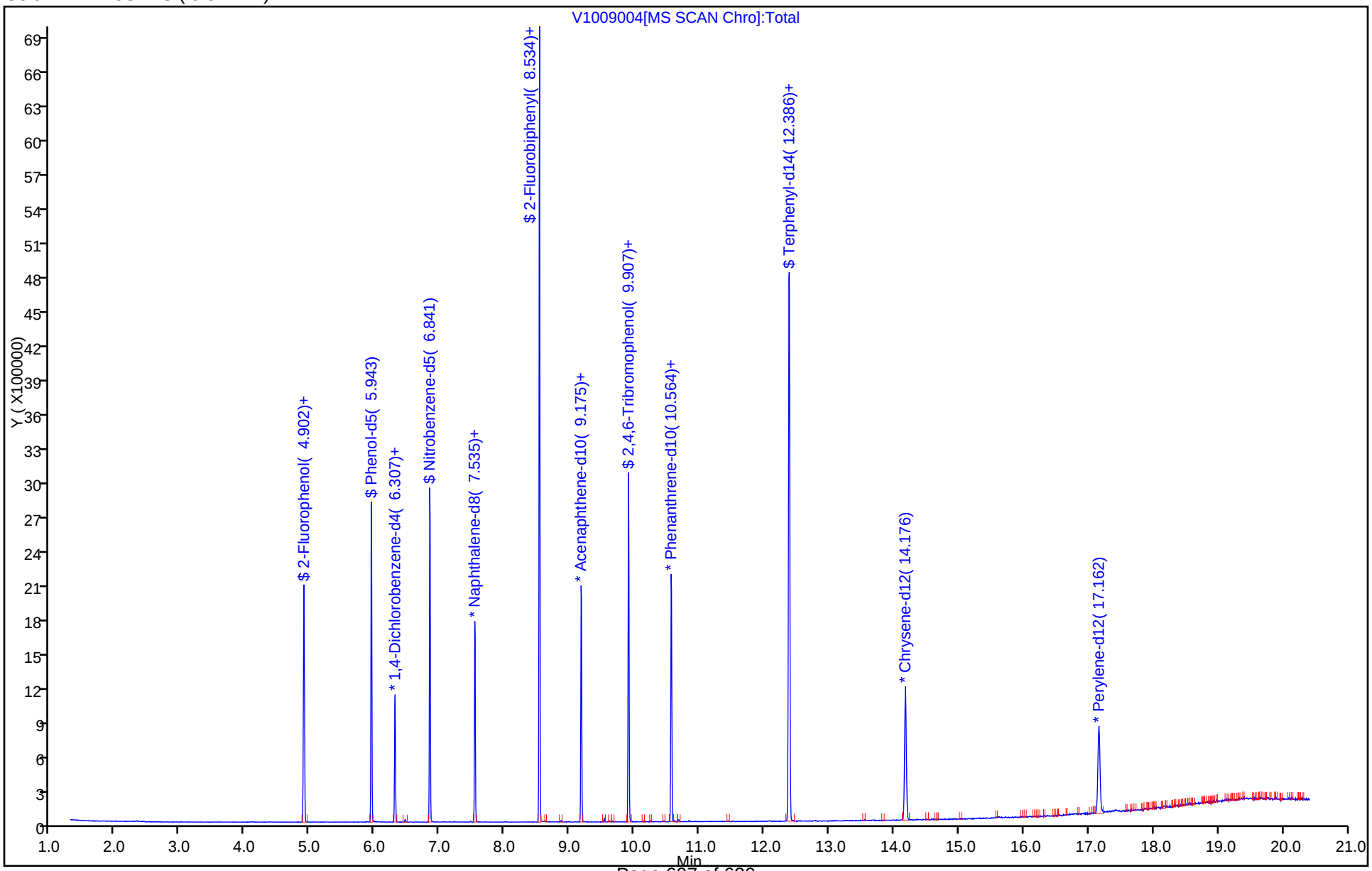
Report Date: 11-Oct-2015 08:06:50 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CH731\20151009-8910.b\V1009004.D

Injection Date:	09-Oct-2015 09:46:30	Instrument ID:	CH731	Operator ID:	003200
Lims ID:	MB 180-156027/1-A			Worklist Smp#:	4
Client ID:					
Injection Vol:	2.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	BNA_CH731	Limit Group:	BNA 8270D ICAL		

Column: Rxi-5SilMS (0.32 mm)



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-48309-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 180-156027/2-A

Matrix: Water | Lab File ID: V1009006.D

Analysis Method: 8270D LL | Date Collected:

Extract. Method: 3520C | Date Extracted: 10/06/2015 10:44

Sample wt/vol: 250(mL) | Date Analyzed: 10/09/2015 10:42

Con. Extract Vol.: 0.25(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 156466 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	14.4		2.0	0.052

CAS NO.	SURROGATE	%REC	Q	LIMITS
321-60-8	2-Fluorobiphenyl	66		28-109
367-12-4	2-Fluorophenol (Surr)	67		20-105
118-79-6	2,4,6-Tribromophenol (Surr)	73		30-118
4165-60-0	Nitrobenzene-d5 (Surr)	68		27-114
4165-62-2	Phenol-d5 (Surr)	67		25-105
1718-51-0	Terphenyl-d14 (Surr)	78		20-118

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CH731\20151009-8910.b\V1009006.D
Lims ID: LCS 180-156027/2-A
Client ID:
Sample Type: LCS
Inject. Date: 09-Oct-2015 10:42:30 ALS Bottle#: 5 Worklist Smp#: 6
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 180-0008910-006
Operator ID: 003200 Instrument ID: CH731

Method: \\ChromNA\Pittsburgh\ChromData\CH731\20151009-8910.b\BNA_CH731.m
Limit Group: BNA 8270D ICAL
Last Update: 11-Oct-2015 08:06:48 Calib Date: 01-Sep-2015 07:35:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CH731\20150901-8368.b\V0901N11.D

Column 1 : Rxi-5SilMS (0.32 mm) Det: MS SCAN
Process Host: XAWRK031

First Level Reviewer: piccolinov Date: 09-Oct-2015 13:52:11

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.308	6.310	-0.002	94	171890	8.00	8.00	
* 2 Naphthalene-d8	136	7.536	7.539	-0.003	100	731792	8.00	8.00	
* 3 Acenaphthene-d10	164	9.176	9.179	-0.003	91	500334	8.00	8.00	
* 4 Phenanthrene-d10	188	10.565	10.573	-0.008	96	961061	8.00	8.00	
* 5 Chrysene-d12	240	14.177	14.184	-0.007	97	853355	8.00	8.00	
* 6 Perylene-d12	264	17.152	17.171	-0.019	98	704595	8.00	8.00	
$ 7 2-Fluorophenol	112	4.903	4.900	0.003	93	682841	40.0	27.0	
$ 8 Phenol-d5	99	5.944	5.941	0.003	94	891322	40.0	27.0	
$ 9 Nitrobenzene-d5	82	6.842	6.844	-0.002	91	968895	40.0	27.2	
$ 10 2-Fluorobiphenyl	172	8.530	8.538	-0.008	99	2307606	40.0	26.4	
$ 11 2,4,6-Tribromophenol	330	9.908	9.911	-0.003	93	388271	40.0	29.2	
$ 12 Terphenyl-d14	244	12.376	12.389	-0.013	99	2535568	40.0	31.3	
13 1,4-Dioxane	88	1.516	1.502	0.014	91	251359	40.0	28.8	
14 N-Nitrosodimethylamine	74	2.178	2.159	0.019	86	332168	40.0	30.0	
15 Pyridine	79	2.242	2.234	0.008	95	656723	40.0	31.7	
26 Benzaldehyde	77	5.848	5.851	-0.003	94	636513	40.0	37.1	
27 Phenol	94	5.955	5.957	-0.002	98	978850	40.0	27.1	
28 Aniline	93	5.966	5.968	-0.002	97	1067810	40.0	26.2	
29 Bis(2-chloroethyl)ether	93	6.035	6.038	-0.003	97	692729	40.0	27.8	
31 2-Chlorophenol	128	6.094	6.096	-0.002	96	819786	40.0	26.8	
32 n-Decane	43	6.158	6.160	-0.002	88	741982	40.0	25.4	
33 1,3-Dichlorobenzene	146	6.249	6.251	-0.002	97	915470	40.0	26.1	
34 1,4-Dichlorobenzene	146	6.324	6.326	-0.002	92	938250	40.0	26.1	
36 Benzyl alcohol	108	6.436	6.438	-0.002	89	509177	40.0	27.8	
37 1,2-Dichlorobenzene	146	6.473	6.476	-0.003	95	893984	40.0	26.0	
38 2-Methylphenol	108	6.553	6.556	-0.003	96	760724	40.0	28.6	
39 Indene	116	6.564	6.567	-0.002	91	1359622	40.0	26.4	
40 2,2'-oxybis[1-chloropropan	45	6.575	6.577	-0.002	89	973624	40.0	26.6	
43 Acetophenone	105	6.692	6.695	-0.003	78	1068360	40.0	26.5	
44 N-Nitrosodi-n-propylamine	70	6.692	6.695	-0.003	72	559832	40.0	28.7	
45 4-Methylphenol	108	6.698	6.700	-0.002	71	796821	40.0	28.4	
47 Hexachloroethane	117	6.810	6.818	-0.008	90	414291	40.0	26.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
48 Nitrobenzene	77	6.858	6.866	-0.008	91	922019	40.0	26.5	
50 Isophorone	82	7.088	7.090	-0.002	98	1584051	40.0	27.7	
51 2-Nitrophenol	139	7.168	7.170	-0.002	98	492602	40.0	28.1	
52 2,4-Dimethylphenol	107	7.200	7.202	-0.002	98	954692	40.0	28.1	
56 Benzoic acid	122	7.274	7.256	0.018	90	516910	40.0	32.5	
55 Bis(2-chloroethoxy)methane	93	7.285	7.288	-0.003	97	924824	40.0	26.9	
57 2,4-Dichlorophenol	162	7.397	7.400	-0.003	95	816139	40.0	28.0	
59 1,2,4-Trichlorobenzene	180	7.483	7.485	-0.002	94	943378	40.0	26.9	
60 Naphthalene	128	7.558	7.560	-0.002	97	2640707	40.0	26.5	
62 4-Chloroaniline	127	7.595	7.598	-0.003	95	1131034	40.0	27.5	
63 2,6-Dichlorophenol	162	7.606	7.614	-0.008	96	814943	40.0	27.9	
64 Hexachlorobutadiene	225	7.675	7.683	-0.008	97	601672	40.0	26.8	
67 Caprolactam	113	7.894	7.886	0.008	76	235906	40.0	26.9	
70 4-Chloro-3-methylphenol	107	8.033	8.036	-0.003	97	830368	40.0	28.7	
72 2-Methylnaphthalene	142	8.199	8.207	-0.008	92	1944344	40.0	27.4	
75 1-Methylnaphthalene	142	8.295	8.303	-0.008	92	1730133	40.0	27.8	
76 Hexachlorocyclopentadiene	237	8.354	8.361	-0.007	97	761488	40.0	28.3	
77 1,2,4,5-Tetrachlorobenzene	216	8.359	8.367	-0.008	98	1035986	40.0	26.1	
78 2,4,6-Trichlorophenol	196	8.455	8.463	-0.008	93	707450	40.0	28.6	
79 2,4,5-Trichlorophenol	196	8.493	8.495	-0.003	93	737247	40.0	28.4	
80 1,1'-Biphenyl	154	8.626	8.634	-0.008	94	2523742	40.0	26.1	
81 2-Chloronaphthalene	162	8.658	8.661	-0.003	96	1992336	40.0	26.3	
82 2-Nitroaniline	65	8.733	8.741	-0.008	82	582822	40.0	27.2	
86 Dimethyl phthalate	163	8.888	8.890	-0.002	98	2245357	40.0	27.8	
87 1,3-Dinitrobenzene	168	8.920	8.922	-0.002	86	366417	40.0	28.5	
88 2,6-Dinitrotoluene	165	8.947	8.954	-0.007	94	520459	40.0	28.3	
89 Acenaphthylene	152	9.043	9.051	-0.008	98	3059605	40.0	26.3	
90 3-Nitroaniline	138	9.112	9.115	-0.003	93	543856	40.0	27.6	
92 2,4-Dinitrophenol	184	9.203	9.211	-0.008	84	725073	80.0	57.9	
91 Acenaphthene	153	9.208	9.211	-0.003	90	1962125	40.0	26.6	
93 4-Nitrophenol	109	9.240	9.248	-0.008	83	761920	80.0	57.9	
94 2,4-Dinitrotoluene	165	9.326	9.328	-0.002	93	719576	40.0	29.2	
95 Dibenzofuran	168	9.363	9.371	-0.008	96	2943258	40.0	26.8	
99 2,3,4,6-Tetrachlorophenol	232	9.470	9.478	-0.008	73	680129	40.0	28.0	
101 Diethyl phthalate	149	9.534	9.537	-0.003	98	2317082	40.0	27.4	
102 Hexadecane	57	9.534	9.542	-0.008	96	1326292	40.0	27.6	
104 4-Chlorophenyl phenyl ethe	204	9.662	9.670	-0.008	92	1291314	40.0	28.4	
105 4-Nitroaniline	138	9.678	9.681	-0.003	81	539987	40.0	26.0	
106 Fluorene	166	9.684	9.692	-0.008	95	2436801	40.0	27.1	
108 4,6-Dinitro-2-methylphenol	198	9.705	9.713	-0.008	89	981720	80.0	59.9	
109 N-Nitrosodiphenylamine	169	9.769	9.777	-0.008	61	3616168	80.0	54.2	
61 Azobenzene	77	9.812	9.815	-0.003	98	2357332	40.0	26.1	
111 1,2-Diphenylhydrazine	77	9.812	9.815	-0.003	98	2357332	40.0	26.1	
116 4-Bromophenyl phenyl ether	248	10.117	10.124	-0.008	65	779169	40.0	28.8	
118 Hexachlorobenzene	284	10.207	10.215	-0.008	95	822649	40.0	28.0	
119 Atrazine	200	10.234	10.242	-0.008	94	566858	40.0	21.6	
122 Pentachlorophenol	266	10.373	10.381	-0.008	92	1089898	80.0	54.1	
121 n-Octadecane	57	10.378	10.386	-0.008	96	1400655	40.0	28.3	
126 Phenanthrene	178	10.587	10.594	-0.007	97	3838319	40.0	26.2	
128 Anthracene	178	10.640	10.643	-0.003	96	3786001	40.0	25.9	
130 Carbazole	167	10.779	10.787	-0.008	96	3269179	40.0	25.4	
132 Di-n-butyl phthalate	149	11.078	11.086	-0.008	100	3911997	40.0	26.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
137 Fluoranthene	202	11.911	11.919	-0.008	96	3976695	40.0	25.5	
138 Benzidine	184	12.034	12.048	-0.014	99	1103888	40.0	20.5	
139 Pyrene	202	12.216	12.229	-0.013	99	3996326	40.0	30.4	
144 Butyl benzyl phthalate	149	13.092	13.100	-0.008	98	1538525	40.0	29.1	
149 3,3'-Dichlorobenzidine	252	14.075	14.083	-0.008	74	1145360	40.0	24.6	
151 Bis(2-ethylhexyl) phthalat	149	14.123	14.131	-0.008	95	2120752	40.0	29.0	
152 Benzo[a]anthracene	228	14.155	14.168	-0.013	97	3409327	40.0	27.4	
153 Chrysene	228	14.225	14.238	-0.013	96	3264605	40.0	28.0	
156 Di-n-octyl phthalate	149	15.453	15.466	-0.013	99	3348593	40.0	29.4	
158 Benzo[b]fluoranthene	252	16.340	16.353	-0.013	96	2945621	40.0	27.0	
159 Benzo[k]fluoranthene	252	16.399	16.412	-0.013	98	3107265	40.0	28.5	
160 Benzo[a]pyrene	252	17.035	17.053	-0.018	76	2849430	40.0	27.4	
163 Indeno[1,2,3-cd]pyrene	276	19.428	19.452	-0.024	99	2969577	40.0	25.0	
164 Dibenz(a,h)anthracene	278	19.460	19.489	-0.029	87	2562696	40.0	25.5	
165 Benzo[g,h,i]perylene	276	20.053	20.071	-0.018	99	2518979	40.0	24.4	
S 206 Total Cresols	108				0		80.0	57.1	
S 208 Methyl Phenols,Total	108				0		80.0	57.1	

Reagents:

SVTAPITINTRNi_00009 Amount Added: 1.00 Units: uL Run Reagent

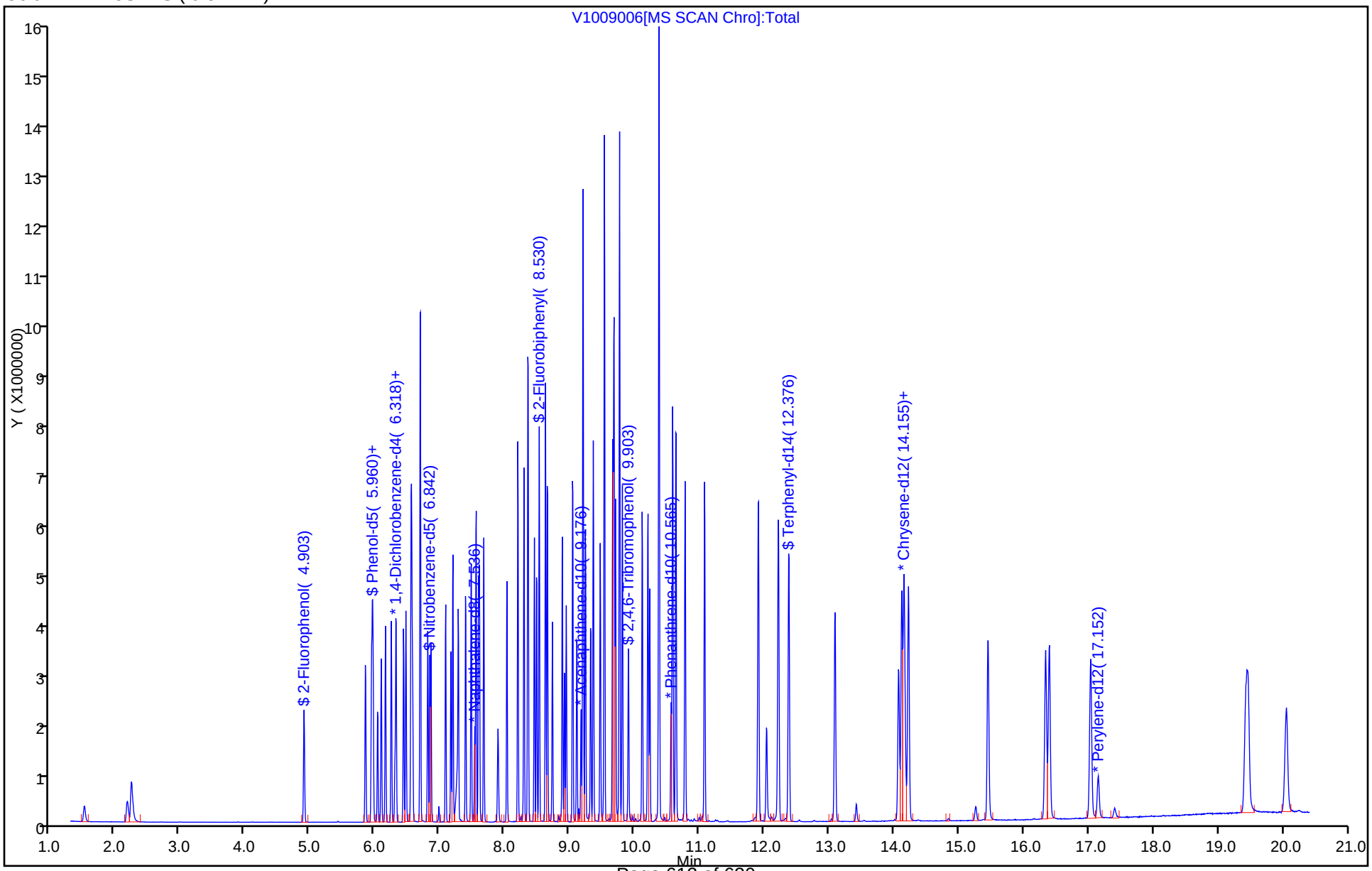
Report Date: 11-Oct-2015 08:06:55 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CH731\20151009-8910.b\V1009006.D

Injection Date:	09-Oct-2015 10:42:30	Instrument ID:	CH731	Operator ID:	003200
Lims ID:	LCS 180-156027/2-A			Worklist Smp#:	6
Client ID:					
Injection Vol:	2.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	BNA_CH731	Limit Group:	BNA 8270D ICAL		

Column: Rxi-5SilMS (0.32 mm)



GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Pittsburgh Job No.: 180-48309-1

SDG No.:

Instrument ID: CH731 Start Date: 08/31/2015 13:24

Analysis Batch Number: 152241 End Date: 08/31/2015 18:45

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 180-152241/2		08/31/2015 13:24	1	V0901002.D	Rxi-5SilMS 0.32(mm)
IC 180-152241/3		08/31/2015 13:40	1	V0901003.D	Rxi-5SilMS 0.32(mm)
IC 180-152241/4		08/31/2015 14:08	1	V0901004.D	Rxi-5SilMS 0.32(mm)
IC 180-152241/5		08/31/2015 14:36	1	V0901005.D	Rxi-5SilMS 0.32(mm)
ICIS 180-152241/6		08/31/2015 15:03	1	V0901006.D	Rxi-5SilMS 0.32(mm)
IC 180-152241/7		08/31/2015 15:31	1	V0901007.D	Rxi-5SilMS 0.32(mm)
IC 180-152241/8		08/31/2015 15:59	1	V0901008.D	Rxi-5SilMS 0.32(mm)
IC 180-152241/9		08/31/2015 16:27	1	V0901009.D	Rxi-5SilMS 0.32(mm)
IC 180-152241/10		08/31/2015 16:55	1	V0901010.D	Rxi-5SilMS 0.32(mm)
ICV 180-152241/11		08/31/2015 17:22	1		Rxi-5SilMS 0.32(mm)
ICV 180-152241/12		08/31/2015 17:50	1		Rxi-5SilMS 0.32(mm)
ICV 180-152241/13		08/31/2015 18:17	1		Rxi-5SilMS 0.32(mm)
ICV 180-152241/14		08/31/2015 18:45	1		Rxi-5SilMS 0.32(mm)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Pittsburgh Job No.: 180-48309-1

SDG No.:

Instrument ID: CH731 Start Date: 10/09/2015 09:01

Analysis Batch Number: 156466 End Date: 10/09/2015 19:36

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 180-156466/2		10/09/2015 09:01	1	V1009002.D	Rxi-5SilMS 0.32(mm)
CCVIS 180-156466/3		10/09/2015 09:18	1	V1009003.D	Rxi-5SilMS 0.32(mm)
MB 180-156027/1-A		10/09/2015 09:46	1	V1009004.D	Rxi-5SilMS 0.32(mm)
ZZZZZ		10/09/2015 10:14	1		Rxi-5SilMS 0.32(mm)
LCS 180-156027/2-A		10/09/2015 10:42	1	V1009006.D	Rxi-5SilMS 0.32(mm)
ZZZZZ		10/09/2015 11:10	1		Rxi-5SilMS 0.32(mm)
ZZZZZ		10/09/2015 11:38	1		Rxi-5SilMS 0.32(mm)
ZZZZZ		10/09/2015 12:06	1		Rxi-5SilMS 0.32(mm)
ZZZZZ		10/09/2015 12:34	1		Rxi-5SilMS 0.32(mm)
ZZZZZ		10/09/2015 13:02	1		Rxi-5SilMS 0.32(mm)
ZZZZZ		10/09/2015 13:30	1		Rxi-5SilMS 0.32(mm)
ZZZZZ		10/09/2015 13:58	1		Rxi-5SilMS 0.32(mm)
ZZZZZ		10/09/2015 14:25	1		Rxi-5SilMS 0.32(mm)
ZZZZZ		10/09/2015 14:54	1		Rxi-5SilMS 0.32(mm)
ZZZZZ		10/09/2015 15:22	1		Rxi-5SilMS 0.32(mm)
ZZZZZ		10/09/2015 15:50	1		Rxi-5SilMS 0.32(mm)
ZZZZZ		10/09/2015 16:18	1		Rxi-5SilMS 0.32(mm)
ZZZZZ		10/09/2015 16:47	1		Rxi-5SilMS 0.32(mm)
ZZZZZ		10/09/2015 17:15	1		Rxi-5SilMS 0.32(mm)
ZZZZZ		10/09/2015 17:43	1		Rxi-5SilMS 0.32(mm)
ZZZZZ		10/09/2015 18:11	1		Rxi-5SilMS 0.32(mm)
ZZZZZ		10/09/2015 18:39	1		Rxi-5SilMS 0.32(mm)
ZZZZZ		10/09/2015 19:08	1		Rxi-5SilMS 0.32(mm)
ZZZZZ		10/09/2015 19:36	1		Rxi-5SilMS 0.32(mm)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Pittsburgh Job No.: 180-48309-1

SDG No.:

Instrument ID: CH731 Start Date: 10/11/2015 09:16

Analysis Batch Number: 156605 End Date: 10/11/2015 19:44

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 180-156605/2		10/11/2015 09:16	1	V1011002.D	Rxi-5SilMS 0.32(mm)
CCVIS 180-156605/3		10/11/2015 09:33	1	V1011003.D	Rxi-5SilMS 0.32(mm)
ZZZZZ		10/11/2015 10:02	1		Rxi-5SilMS 0.32(mm)
ZZZZZ		10/11/2015 10:30	1		Rxi-5SilMS 0.32(mm)
ZZZZZ		10/11/2015 10:55	1		Rxi-5SilMS 0.32(mm)
ZZZZZ		10/11/2015 11:21	1		Rxi-5SilMS 0.32(mm)
ZZZZZ		10/11/2015 11:49	1		Rxi-5SilMS 0.32(mm)
ZZZZZ		10/11/2015 12:14	1		Rxi-5SilMS 0.32(mm)
ZZZZZ		10/11/2015 13:05	1		Rxi-5SilMS 0.32(mm)
ZZZZZ		10/11/2015 13:30	1		Rxi-5SilMS 0.32(mm)
ZZZZZ		10/11/2015 13:59	1		Rxi-5SilMS 0.32(mm)
ZZZZZ		10/11/2015 14:28	1		Rxi-5SilMS 0.32(mm)
ZZZZZ		10/11/2015 14:57	1		Rxi-5SilMS 0.32(mm)
ZZZZZ		10/11/2015 15:26	1		Rxi-5SilMS 0.32(mm)
ZZZZZ		10/11/2015 15:54	1		Rxi-5SilMS 0.32(mm)
ZZZZZ		10/11/2015 16:23	1		Rxi-5SilMS 0.32(mm)
ZZZZZ		10/11/2015 16:52	1		Rxi-5SilMS 0.32(mm)
ZZZZZ		10/11/2015 17:21	1		Rxi-5SilMS 0.32(mm)
ZZZZZ		10/11/2015 17:49	1		Rxi-5SilMS 0.32(mm)
ZZZZZ		10/11/2015 18:18	1		Rxi-5SilMS 0.32(mm)
ZZZZZ		10/11/2015 18:47	1		Rxi-5SilMS 0.32(mm)
ZZZZZ		10/11/2015 19:16	1		Rxi-5SilMS 0.32(mm)
180-48309-1	HD-MW-87-0/1-0	10/11/2015 19:44	1	V1011025.D	Rxi-5SilMS 0.32(mm)

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Pittsburgh Job No.: 180-48309-1

SDG No.:

Batch Number: 156027 Batch Start Date: 10/06/15 13:50 Batch Analyst: Trout, Bill

Batch Method: 3520C Batch End Date: 10/07/15 08:50

Lab Sample ID	Client Sample ID	Method Chain	Basis	Initial pH	InitialAmount	FinalAmount	FirstAdjustpH	OPLVISPKMIX1i 00044	OPQL8270SURi 00034
MB 180-156027/1		3520C, 8270D LL		5 SU	250 mL	0.25 mL	2		25 uL
LCS 180-156027/2		3520C, 8270D LL		5 SU	250 mL	0.25 mL	2	25 uL	25 uL
180-48309-A-1	HD-MW-87-0/1-0	3520C, 8270D LL	T	7 SU	270 mL	0.25 mL	2		25 uL

Batch Notes	
Acid used for pH adjustment	1:1 Sulfuric acid
Acid used for pH adjust Lot #	1654713
Person's name who did the concentration	cdm
Time the first extraction ended 24hr	0805
Time the first extraction started 24 hr	1350
N-evap #	1
Na2SO4 Lot Number	1648567
pH Paper Lot Number	Ph paper HC554612
Prep Solvent Lot #	1728829
Prep Solvent Name	Methylene chloride
Prep Solvent Volume Used	100 mL
Person's name who did the prep	BT
Sufficient volume for MS/MSD?	Yes
Uncorrected N-evap Temperature	26 Degrees C
Uncorrected Temperature	75 Degrees C

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Shipping and Receiving Documents

TestAmerica Pittsburgh
301 Alpha Drive

Pittsburgh, PA 15238
phone 412.963.7058 fax 412.963.2470

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Jennifer S. Reese	Site Contact: Jennifer S. Reese	DateSubmitted: 9/30/2015	COC No: TAP2015093001
Groundwater Sciences Corporation	Tel/Fax: 717-901-8181 / (717) 657-1611	Lab Contact: Carrie Gamber	Carrier: FEDEX	1 of 1 COCs
2601 Market Place St. Suite 310	Analysis Turnaround Time			Job No. 10012.27
Harrisburg, PA 17110	Calendar (C) or Work Days (W) _____			Container No. 1
(717) 901-8180 Phone	TAT if different from Below: Standard			SDG No.
(717) 657-1611 FAX	■ 2 weeks			
Project Name: 2015 Comprehensive Event	☐ 1 week			
Site: Harley-Davidson, York PA	☐ 5 days			
Quote # 18000557	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	VOCs (8260C)	Total CR 6+ (SW846 7196A)	Dissolved Cr 6+ (SW846 7196A)	1,4-Dioxane (SW846 8270D LL)	Sample Specific Notes:
HD-MW-87-0/1-0	9/30/15	10:37	Groundwater	Water	5	X			X	
HD-MW-143S-0/1-0	9/30/15	14:02	Groundwater	Water	3	X				
HD-MW-143D-0/1-0	9/30/15	12:42	Groundwater	Water	3	X				
HD-MW-20M-0/1-0	9/30/15	8:45	Groundwater	Water	3	X				
HD-MW-92-0/1-0	9/30/15	8:25	Groundwater	Water	3	X				
HD-MW-64D-0/1-0	9/30/15	12:40	Groundwater	Water	3	X				
HD-QC12-0/1-2	9/30/15	12:00	Trip Blank	Water	2	X				
Number of Containers						3	1	1	2	
Preservation Used: 1=Ice, 2=HCl, 3=H2SO4, 4=HNO3, 5=NaOH, 6=Unpreserved 7=Zinc Acetate & NaOH						2	1	1	1	
Field Filter						N	N	Y	N	

Possible Hazard Identification
■ *Non-Hazard* ☐ *Flammable* ☐ *Skin Irritant* ☐ *Poison B* ☐ *Unknown*

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ■ *Disposal By Lab* ☐ *Archive For* _____ *Months*

Special Instructions/QC Requirements & Comments: **CLP Like Deliverables**

Relinquished by (Print and Sign):	Company: GSC	Date/Time: 9/30/15 1455	Received by:	Company: TAP	Date/Time: 9/30/15 1455
Relinquished by:	Company: TAP	Date/Time: 9/30 1635	Received by:	Company: TAP	Date/Time: 10-1-15 9:30
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time: 10-1-15

ORIGIN ID:KPDA (610) 337-9992
SAMPLE RECEIPT
TEST AMERICA
1008 WEST 9TH AVE

KING OF PRUSSIA, PA 19406
UNITED STATES US

SHIP DATE: 30SEP
ACTWGT: 48.00 LB
CAD: 8490299/IN

BILL RECIPIENT

TO SAMPLE RECEIPT
TEST AMERICA - PITTSBURGH
301 ALPHA DR

PITTSBURGH PA 15238
(2) 96-7058 REF:

DEPT:

53912/19707/3108

TRK# 0201 7746 3545 4481

THU - 01
STANDARI

EV AGCA

Part # 156297-435 Rit2 07/15

Uncorrected temp 3.1 °C
Thermometer ID 7

CF 0 Initials DW

PT-WI-SR-001 effective 7/26/13

RT 197
FZ 199

5:00 A
4481
10.0

Login Sample Receipt Checklist

Client: Groundwater Sciences Corporation

Job Number: 180-48309-1

Login Number: 48309
List Number: 1
Creator: Watson, Debbie

List Source: TestAmerica Pittsburgh

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	