TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

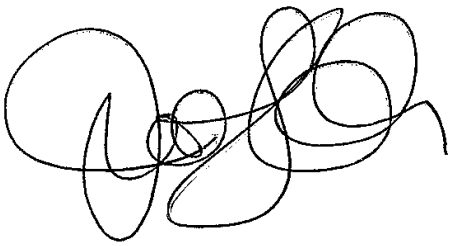
ANALYTICAL REPORT

Job Number: 180-48435-1

Job Description: Harley Davidson

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

Attention: Allan Miller



Approved for release.
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10/19/2015 11:23 AM

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Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
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.

GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD 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: 180-48435-1

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

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

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

RECEIPT
The samples were received on 10/06/2015; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 2.7 C.

VOLATILES
Due to the concentration of target compounds detected, several samples were analyzed at a dilution. The reporting limits have been adjusted accordingly.

The continuing calibration verification (CCV) analyzed in batch 180-157127 was outside the method criteria for the following analytes: 1,4-Dioxane, Acetone, Chloroethane, Vinyl chloride, and Bromomethane. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detections for the affected analytes are considered estimated.

The continuing calibration verification (CCV) analyzed in batch 180-157249 was outside the method criteria for the following analytes: Vinyl chloride, Bromomethane, Chloromethane, Trichlorofluoromethane, Acrolein, Iodomethane and Chlorobromomethane. A Low Level CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detections for the affected analytes are considered estimated.

The continuing calibration verification (CCV) analyzed in batch 180-157327 was outside the method criteria for the following analytes: Acetone and Chlorobromomethane. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detections for the affected analytes are considered estimated.

SEMIVOLATILES
Due to the concentration target compounds detected, sample HD-CW-15A-0/1-0 (180-48435-33) was analyzed at a dilution. The reporting limits have been adjusted accordingly.

The laboratory control sample duplicate (LCSD) for batch 180-156321 recovered outside control limits for the following analyte: 1,4-Dioxane. 1,4-Dioxane has been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed.

Detection Summary

Client: Groundwater Sciences Corporation
Project/Site: Harley Davidson

TestAmerica Job ID: 180-48435-1

Client Sample ID: HD-CW-9-0/1-0 — Lab Sample ID: 180-48435-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	4.5		2.0	0.59	ug/L	2		8260C	Total/NA
1,1-Dichloroethane	4.0		2.0	0.23	ug/L	2		8260C	Total/NA
cis-1,2-Dichloroethene	80		2.0	0.47	ug/L	2		8260C	Total/NA
Chloroform	0.39	J	2.0	0.34	ug/L	2		8260C	Total/NA
1,1,1-Trichloroethane	21		2.0	0.57	ug/L	2		8260C	Total/NA
Trichloroethene	74		2.0	0.29	ug/L	2		8260C	Total/NA
Tetrachloroethene	360	E	2.0	0.30	ug/L	2		8260C	Total/NA
1,1-Dichloroethane - DL	4.7	J	20	2.3	ug/L	20		8260C	Total/NA
cis-1,2-Dichloroethene - DL	90		20	4.7	ug/L	20		8260C	Total/NA
1,1,1-Trichloroethane - DL	21		20	5.7	ug/L	20		8260C	Total/NA
Trichloroethene - DL	80		20	2.9	ug/L	20		8260C	Total/NA
Tetrachloroethene - DL	430		20	3.0	ug/L	20		8260C	Total/NA

Client Sample ID: HD-CW-13-0/1-0 — Lab Sample ID: 180-48435-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	12	J	25	7.4	ug/L	25		8260C	Total/NA
Methylene Chloride	8.1	J	25	3.1	ug/L	25		8260C	Total/NA
1,1-Dichloroethane	5.9	J	25	2.9	ug/L	25		8260C	Total/NA
cis-1,2-Dichloroethene	490		25	5.9	ug/L	25		8260C	Total/NA
1,1,1-Trichloroethane	17	J	25	7.2	ug/L	25		8260C	Total/NA
Trichloroethene	200		25	3.6	ug/L	25		8260C	Total/NA
Tetrachloroethene	200		25	3.7	ug/L	25		8260C	Total/NA

Client Sample ID: HD-CW-15A-0/1-0 — Lab Sample ID: 180-48435-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	2400		500	150	ug/L	500		8260C	Total/NA
Methylene Chloride	200	J	500	63	ug/L	500		8260C	Total/NA
1,1-Dichloroethane	190	J	500	58	ug/L	500		8260C	Total/NA
cis-1,2-Dichloroethene	11000		500	120	ug/L	500		8260C	Total/NA
1,1,1-Trichloroethane	12000		500	140	ug/L	500		8260C	Total/NA
Trichloroethene	4800		500	72	ug/L	500		8260C	Total/NA
Tetrachloroethene	1700		500	74	ug/L	500		8260C	Total/NA
1,4-Dioxane	130	E *	1.9	0.050	ug/L	1		8270D LL	Total/NA
1,4-Dioxane - DL	120	*	29	0.76	ug/L	15		8270D LL	Total/NA

Client Sample ID: HD-CW-17-0/1-0 — Lab Sample ID: 180-48435-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	6.7		5.0	1.5	ug/L	5		8260C	Total/NA
1,1-Dichloroethane	4.2	J	5.0	0.58	ug/L	5		8260C	Total/NA
cis-1,2-Dichloroethene	83		5.0	1.2	ug/L	5		8260C	Total/NA
1,1,1-Trichloroethane	11		5.0	1.4	ug/L	5		8260C	Total/NA
Trichloroethene	64		5.0	0.72	ug/L	5		8260C	Total/NA
Tetrachloroethene	46		5.0	0.74	ug/L	5		8260C	Total/NA

Client Sample ID: HD-CW-20-0/1-0 — Lab Sample ID: 180-48435-5

This Detection Summary does not include radiochemical test results.

Client Sample ID: HD-CW-20-0/1-0 (Continued) — Lab Sample ID: 180-48435-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	17	J	50	15	ug/L	50		8260C	Total/NA
cis-1,2-Dichloroethene	210		50	12	ug/L	50		8260C	Total/NA
1,1,1-Trichloroethane	77		50	14	ug/L	50		8260C	Total/NA
Trichloroethene	500		50	7.2	ug/L	50		8260C	Total/NA
Tetrachloroethene	1300		50	7.4	ug/L	50		8260C	Total/NA

Client Sample ID: HD-QC-5-0/1-2 — Lab Sample ID: 180-48435-6

No Detections.

This Detection Summary does not include radiochemical test results.

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

Client Sample ID: HD-CW-9-0/1-0
Date Collected: 10/05/15 06:20
Date Received: 10/06/15 09:00

Lab Sample ID: 180-48435-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		2.0	0.57	ug/L			10/17/15 20:49	2
Vinyl chloride	ND		2.0	0.45	ug/L			10/17/15 20:49	2
Bromomethane	ND		2.0	0.63	ug/L			10/17/15 20:49	2
Chloroethane	ND		2.0	0.43	ug/L			10/17/15 20:49	2
1,1-Dichloroethene	**4.5**		2.0	0.59	ug/L			10/17/15 20:49	2
Acetone	ND	^c	10	5.0	ug/L			10/17/15 20:49	2
Carbon disulfide	ND		2.0	0.42	ug/L			10/17/15 20:49	2
Methylene Chloride	ND		2.0	0.25	ug/L			10/17/15 20:49	2
trans-1,2-Dichloroethene	ND		2.0	0.34	ug/L			10/17/15 20:49	2
Methyl tert-butyl ether	ND		2.0	0.37	ug/L			10/17/15 20:49	2
1,1-Dichloroethane	**4.0**		2.0	0.23	ug/L			10/17/15 20:49	2
cis-1,2-Dichloroethene	**80**		2.0	0.47	ug/L			10/17/15 20:49	2
Bromochloromethane	ND	^c	2.0	0.36	ug/L			10/17/15 20:49	2
2-Butanone (MEK)	ND		10	1.1	ug/L			10/17/15 20:49	2
Chloroform	**0.39**	**J**	2.0	0.34	ug/L			10/17/15 20:49	2
1,1,1-Trichloroethane	**21**		2.0	0.57	ug/L			10/17/15 20:49	2
Carbon tetrachloride	ND		2.0	0.27	ug/L			10/17/15 20:49	2
Benzene	ND		2.0	0.21	ug/L			10/17/15 20:49	2
1,2-Dichloroethane	ND		2.0	0.42	ug/L			10/17/15 20:49	2
Trichloroethene	**74**		2.0	0.29	ug/L			10/17/15 20:49	2
1,2-Dichloropropane	ND		2.0	0.19	ug/L			10/17/15 20:49	2
Bromodichloromethane	ND		2.0	0.26	ug/L			10/17/15 20:49	2
cis-1,3-Dichloropropene	ND		2.0	0.37	ug/L			10/17/15 20:49	2
4-Methyl-2-pentanone (MIBK)	ND		10	1.1	ug/L			10/17/15 20:49	2
Toluene	ND		2.0	0.30	ug/L			10/17/15 20:49	2
trans-1,3-Dichloropropene	ND		2.0	0.30	ug/L			10/17/15 20:49	2
1,1,2-Trichloroethane	ND		2.0	0.40	ug/L			10/17/15 20:49	2
Tetrachloroethene	**360**	**E**	2.0	0.30	ug/L			10/17/15 20:49	2
2-Hexanone	ND		10	0.32	ug/L			10/17/15 20:49	2
Dibromochloromethane	ND		2.0	0.27	ug/L			10/17/15 20:49	2
1,2-Dibromoethane (EDB)	ND		2.0	0.36	ug/L			10/17/15 20:49	2
Chlorobenzene	ND		2.0	0.27	ug/L			10/17/15 20:49	2
1,1,1,2-Tetrachloroethane	ND		2.0	0.55	ug/L			10/17/15 20:49	2
Ethylbenzene	ND		2.0	0.45	ug/L			10/17/15 20:49	2
Xylenes, Total	ND		6.0	0.98	ug/L			10/17/15 20:49	2
Styrene	ND		2.0	0.19	ug/L			10/17/15 20:49	2
Bromoform	ND		2.0	0.38	ug/L			10/17/15 20:49	2
1,1,2,2-Tetrachloroethane	ND		2.0	0.40	ug/L			10/17/15 20:49	2
Acrylonitrile	ND		40	1.1	ug/L			10/17/15 20:49	2
1,4-Dioxane	ND		400	69	ug/L			10/17/15 20:49	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*64 - 135*		*10/17/15 20:49*	*2*
Toluene-d8 (Surr)	*104*		*71 - 118*		*10/17/15 20:49*	*2*
4-Bromofluorobenzene (Surr)	*93*		*70 - 118*		*10/17/15 20:49*	*2*
Dibromofluoromethane (Surr)	*100*		*70 - 128*		*10/17/15 20:49*	*2*

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

Client Sample ID: HD-CW-13-0/1-0
Date Collected: 10/05/15 06:30
Date Received: 10/06/15 09:00

Lab Sample ID: 180-48435-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		25	7.1	ug/L			10/15/15 19:12	25
Vinyl chloride	ND	^c	25	5.7	ug/L			10/15/15 19:12	25
Bromomethane	ND	^c	25	7.8	ug/L			10/15/15 19:12	25
Chloroethane	ND	^c	25	5.4	ug/L			10/15/15 19:12	25
1,1-Dichloroethene	**12**	**J**	25	7.4	ug/L			10/15/15 19:12	25
Acetone	ND	^c	130	63	ug/L			10/15/15 19:12	25
Carbon disulfide	ND		25	5.3	ug/L			10/15/15 19:12	25
Methylene Chloride	**8.1**	**J**	25	3.1	ug/L			10/15/15 19:12	25
trans-1,2-Dichloroethene	ND		25	4.2	ug/L			10/15/15 19:12	25
Methyl tert-butyl ether	ND		25	4.6	ug/L			10/15/15 19:12	25
1,1-Dichloroethane	**5.9**	**J**	25	2.9	ug/L			10/15/15 19:12	25
cis-1,2-Dichloroethene	**490**		25	5.9	ug/L			10/15/15 19:12	25
Bromochloromethane	ND		25	4.5	ug/L			10/15/15 19:12	25
2-Butanone (MEK)	ND		130	14	ug/L			10/15/15 19:12	25
Chloroform	ND		25	4.3	ug/L			10/15/15 19:12	25
1,1,1-Trichloroethane	**17**	**J**	25	7.2	ug/L			10/15/15 19:12	25
Carbon tetrachloride	ND		25	3.4	ug/L			10/15/15 19:12	25
Benzene	ND		25	2.6	ug/L			10/15/15 19:12	25
1,2-Dichloroethane	ND		25	5.3	ug/L			10/15/15 19:12	25
Trichloroethene	**200**		25	3.6	ug/L			10/15/15 19:12	25
1,2-Dichloropropane	ND		25	2.4	ug/L			10/15/15 19:12	25
Bromodichloromethane	ND		25	3.3	ug/L			10/15/15 19:12	25
cis-1,3-Dichloropropene	ND		25	4.7	ug/L			10/15/15 19:12	25
4-Methyl-2-pentanone (MIBK)	ND		130	13	ug/L			10/15/15 19:12	25
Toluene	ND		25	3.8	ug/L			10/15/15 19:12	25
trans-1,3-Dichloropropene	ND		25	3.7	ug/L			10/15/15 19:12	25
1,1,2-Trichloroethane	ND		25	5.0	ug/L			10/15/15 19:12	25
Tetrachloroethene	**200**		25	3.7	ug/L			10/15/15 19:12	25
2-Hexanone	ND		130	4.0	ug/L			10/15/15 19:12	25
Dibromochloromethane	ND		25	3.4	ug/L			10/15/15 19:12	25
1,2-Dibromoethane (EDB)	ND		25	4.5	ug/L			10/15/15 19:12	25
Chlorobenzene	ND		25	3.4	ug/L			10/15/15 19:12	25
1,1,1,2-Tetrachloroethane	ND		25	6.9	ug/L			10/15/15 19:12	25
Ethylbenzene	ND		25	5.7	ug/L			10/15/15 19:12	25
Xylenes, Total	ND		75	12	ug/L			10/15/15 19:12	25
Styrene	ND		25	2.4	ug/L			10/15/15 19:12	25
Bromoform	ND		25	4.8	ug/L			10/15/15 19:12	25
1,1,2,2-Tetrachloroethane	ND		25	5.0	ug/L			10/15/15 19:12	25
Acrylonitrile	ND		500	14	ug/L			10/15/15 19:12	25
1,4-Dioxane	ND	^c	5000	860	ug/L			10/15/15 19:12	25

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*64 - 135*		*10/15/15 19:12*	*25*
Toluene-d8 (Surr)	*105*		*71 - 118*		*10/15/15 19:12*	*25*
4-Bromofluorobenzene (Surr)	*94*		*70 - 118*		*10/15/15 19:12*	*25*
Dibromofluoromethane (Surr)	*93*		*70 - 128*		*10/15/15 19:12*	*25*

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

Client Sample ID: HD-CW-15A-0/1-0
Date Collected: 10/05/15 06:15
Date Received: 10/06/15 09:00

Lab Sample ID: 180-48435-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		500	140	ug/L			10/15/15 19:36	500
Vinyl chloride	ND	^c	500	110	ug/L			10/15/15 19:36	500
Bromomethane	ND	^c	500	160	ug/L			10/15/15 19:36	500
Chloroethane	ND	^c	500	110	ug/L			10/15/15 19:36	500
1,1-Dichloroethene	**2400**		500	150	ug/L			10/15/15 19:36	500
Acetone	ND	^c	2500	1300	ug/L			10/15/15 19:36	500
Carbon disulfide	ND		500	110	ug/L			10/15/15 19:36	500
Methylene Chloride	**200**	**J**	500	63	ug/L			10/15/15 19:36	500
trans-1,2-Dichloroethene	ND		500	85	ug/L			10/15/15 19:36	500
Methyl tert-butyl ether	ND		500	92	ug/L			10/15/15 19:36	500
1,1-Dichloroethane	**190**	**J**	500	58	ug/L			10/15/15 19:36	500
cis-1,2-Dichloroethene	**11000**		500	120	ug/L			10/15/15 19:36	500
Bromochloromethane	ND		500	90	ug/L			10/15/15 19:36	500
2-Butanone (MEK)	ND		2500	270	ug/L			10/15/15 19:36	500
Chloroform	ND		500	85	ug/L			10/15/15 19:36	500
1,1,1-Trichloroethane	**12000**		500	140	ug/L			10/15/15 19:36	500
Carbon tetrachloride	ND		500	68	ug/L			10/15/15 19:36	500
Benzene	ND		500	53	ug/L			10/15/15 19:36	500
1,2-Dichloroethane	ND		500	110	ug/L			10/15/15 19:36	500
Trichloroethene	**4800**		500	72	ug/L			10/15/15 19:36	500
1,2-Dichloropropane	ND		500	47	ug/L			10/15/15 19:36	500
Bromodichloromethane	ND		500	65	ug/L			10/15/15 19:36	500
cis-1,3-Dichloropropene	ND		500	93	ug/L			10/15/15 19:36	500
4-Methyl-2-pentanone (MIBK)	ND		2500	260	ug/L			10/15/15 19:36	500
Toluene	ND		500	75	ug/L			10/15/15 19:36	500
trans-1,3-Dichloropropene	ND		500	74	ug/L			10/15/15 19:36	500
1,1,2-Trichloroethane	ND		500	100	ug/L			10/15/15 19:36	500
Tetrachloroethene	**1700**		500	74	ug/L			10/15/15 19:36	500
2-Hexanone	ND		2500	80	ug/L			10/15/15 19:36	500
Dibromochloromethane	ND		500	68	ug/L			10/15/15 19:36	500
1,2-Dibromoethane (EDB)	ND		500	90	ug/L			10/15/15 19:36	500
Chlorobenzene	ND		500	68	ug/L			10/15/15 19:36	500
1,1,1,2-Tetrachloroethane	ND		500	140	ug/L			10/15/15 19:36	500
Ethylbenzene	ND		500	110	ug/L			10/15/15 19:36	500
Xylenes, Total	ND		1500	240	ug/L			10/15/15 19:36	500
Styrene	ND		500	48	ug/L			10/15/15 19:36	500
Bromoform	ND		500	96	ug/L			10/15/15 19:36	500
1,1,2,2-Tetrachloroethane	ND		500	100	ug/L			10/15/15 19:36	500
Acrylonitrile	ND		10000	270	ug/L			10/15/15 19:36	500
1,4-Dioxane	ND	^c	100000	17000	ug/L			10/15/15 19:36	500

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*64 - 135*		*10/15/15 19:36*	*500*
Toluene-d8 (Surr)	*104*		*71 - 118*		*10/15/15 19:36*	*500*
4-Bromofluorobenzene (Surr)	*94*		*70 - 118*		*10/15/15 19:36*	*500*
Dibromofluoromethane (Surr)	*93*		*70 - 128*		*10/15/15 19:36*	*500*

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

Client Sample ID: HD-CW-17-0/1-0
Date Collected: 10/05/15 06:35
Date Received: 10/06/15 09:00

Lab Sample ID: 180-48435-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		5.0	1.4	ug/L			10/15/15 20:25	5
Vinyl chloride	ND	^c	5.0	1.1	ug/L			10/15/15 20:25	5
Bromomethane	ND	^c	5.0	1.6	ug/L			10/15/15 20:25	5
Chloroethane	ND	^c	5.0	1.1	ug/L			10/15/15 20:25	5
1,1-Dichloroethene	**6.7**		5.0	1.5	ug/L			10/15/15 20:25	5
Acetone	ND	^c	25	13	ug/L			10/15/15 20:25	5
Carbon disulfide	ND		5.0	1.1	ug/L			10/15/15 20:25	5
Methylene Chloride	ND		5.0	0.63	ug/L			10/15/15 20:25	5
trans-1,2-Dichloroethene	ND		5.0	0.85	ug/L			10/15/15 20:25	5
Methyl tert-butyl ether	ND		5.0	0.92	ug/L			10/15/15 20:25	5
1,1-Dichloroethane	**4.2**	**J**	5.0	0.58	ug/L			10/15/15 20:25	5
cis-1,2-Dichloroethene	**83**		5.0	1.2	ug/L			10/15/15 20:25	5
Bromochloromethane	ND		5.0	0.90	ug/L			10/15/15 20:25	5
2-Butanone (MEK)	ND		25	2.7	ug/L			10/15/15 20:25	5
Chloroform	ND		5.0	0.85	ug/L			10/15/15 20:25	5
1,1,1-Trichloroethane	**11**		5.0	1.4	ug/L			10/15/15 20:25	5
Carbon tetrachloride	ND		5.0	0.68	ug/L			10/15/15 20:25	5
Benzene	ND		5.0	0.53	ug/L			10/15/15 20:25	5
1,2-Dichloroethane	ND		5.0	1.1	ug/L			10/15/15 20:25	5
Trichloroethene	**64**		5.0	0.72	ug/L			10/15/15 20:25	5
1,2-Dichloropropane	ND		5.0	0.47	ug/L			10/15/15 20:25	5
Bromodichloromethane	ND		5.0	0.65	ug/L			10/15/15 20:25	5
cis-1,3-Dichloropropene	ND		5.0	0.93	ug/L			10/15/15 20:25	5
4-Methyl-2-pentanone (MIBK)	ND		25	2.6	ug/L			10/15/15 20:25	5
Toluene	ND		5.0	0.75	ug/L			10/15/15 20:25	5
trans-1,3-Dichloropropene	ND		5.0	0.74	ug/L			10/15/15 20:25	5
1,1,2-Trichloroethane	ND		5.0	1.0	ug/L			10/15/15 20:25	5
Tetrachloroethene	**46**		5.0	0.74	ug/L			10/15/15 20:25	5
2-Hexanone	ND		25	0.80	ug/L			10/15/15 20:25	5
Dibromochloromethane	ND		5.0	0.68	ug/L			10/15/15 20:25	5
1,2-Dibromoethane (EDB)	ND		5.0	0.90	ug/L			10/15/15 20:25	5
Chlorobenzene	ND		5.0	0.68	ug/L			10/15/15 20:25	5
1,1,1,2-Tetrachloroethane	ND		5.0	1.4	ug/L			10/15/15 20:25	5
Ethylbenzene	ND		5.0	1.1	ug/L			10/15/15 20:25	5
Xylenes, Total	ND		15	2.4	ug/L			10/15/15 20:25	5
Styrene	ND		5.0	0.48	ug/L			10/15/15 20:25	5
Bromoform	ND		5.0	0.96	ug/L			10/15/15 20:25	5
1,1,2,2-Tetrachloroethane	ND		5.0	1.0	ug/L			10/15/15 20:25	5
Acrylonitrile	ND		100	2.7	ug/L			10/15/15 20:25	5
1,4-Dioxane	ND	^c	1000	170	ug/L			10/15/15 20:25	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*64 - 135*		*10/15/15 20:25*	*5*
Toluene-d8 (Surr)	*106*		*71 - 118*		*10/15/15 20:25*	*5*
4-Bromofluorobenzene (Surr)	*92*		*70 - 118*		*10/15/15 20:25*	*5*
Dibromofluoromethane (Surr)	*98*		*70 - 128*		*10/15/15 20:25*	*5*

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

Client Sample ID: HD-CW-20-0/1-0
Date Collected: 10/05/15 06:25
Date Received: 10/06/15 09:00

Lab Sample ID: 180-48435-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		50	14	ug/L			10/15/15 20:49	50
Vinyl chloride	ND	^c	50	11	ug/L			10/15/15 20:49	50
Bromomethane	ND	^c	50	16	ug/L			10/15/15 20:49	50
Chloroethane	ND	^c	50	11	ug/L			10/15/15 20:49	50
1,1-Dichloroethene	**17**	**J**	50	15	ug/L			10/15/15 20:49	50
Acetone	ND	^c	250	130	ug/L			10/15/15 20:49	50
Carbon disulfide	ND		50	11	ug/L			10/15/15 20:49	50
Methylene Chloride	ND		50	6.3	ug/L			10/15/15 20:49	50
trans-1,2-Dichloroethene	ND		50	8.5	ug/L			10/15/15 20:49	50
Methyl tert-butyl ether	ND		50	9.2	ug/L			10/15/15 20:49	50
1,1-Dichloroethane	ND		50	5.8	ug/L			10/15/15 20:49	50
cis-1,2-Dichloroethene	**210**		50	12	ug/L			10/15/15 20:49	50
Bromochloromethane	ND		50	9.0	ug/L			10/15/15 20:49	50
2-Butanone (MEK)	ND		250	27	ug/L			10/15/15 20:49	50
Chloroform	ND		50	8.5	ug/L			10/15/15 20:49	50
1,1,1-Trichloroethane	**77**		50	14	ug/L			10/15/15 20:49	50
Carbon tetrachloride	ND		50	6.8	ug/L			10/15/15 20:49	50
Benzene	ND		50	5.3	ug/L			10/15/15 20:49	50
1,2-Dichloroethane	ND		50	11	ug/L			10/15/15 20:49	50
Trichloroethene	**500**		50	7.2	ug/L			10/15/15 20:49	50
1,2-Dichloropropane	ND		50	4.7	ug/L			10/15/15 20:49	50
Bromodichloromethane	ND		50	6.5	ug/L			10/15/15 20:49	50
cis-1,3-Dichloropropene	ND		50	9.3	ug/L			10/15/15 20:49	50
4-Methyl-2-pentanone (MIBK)	ND		250	26	ug/L			10/15/15 20:49	50
Toluene	ND		50	7.5	ug/L			10/15/15 20:49	50
trans-1,3-Dichloropropene	ND		50	7.4	ug/L			10/15/15 20:49	50
1,1,2-Trichloroethane	ND		50	10	ug/L			10/15/15 20:49	50
Tetrachloroethene	**1300**		50	7.4	ug/L			10/15/15 20:49	50
2-Hexanone	ND		250	8.0	ug/L			10/15/15 20:49	50
Dibromochloromethane	ND		50	6.8	ug/L			10/15/15 20:49	50
1,2-Dibromoethane (EDB)	ND		50	9.0	ug/L			10/15/15 20:49	50
Chlorobenzene	ND		50	6.8	ug/L			10/15/15 20:49	50
1,1,1,2-Tetrachloroethane	ND		50	14	ug/L			10/15/15 20:49	50
Ethylbenzene	ND		50	11	ug/L			10/15/15 20:49	50
Xylenes, Total	ND		150	24	ug/L			10/15/15 20:49	50
Styrene	ND		50	4.8	ug/L			10/15/15 20:49	50
Bromoform	ND		50	9.6	ug/L			10/15/15 20:49	50
1,1,2,2-Tetrachloroethane	ND		50	10	ug/L			10/15/15 20:49	50
Acrylonitrile	ND		1000	27	ug/L			10/15/15 20:49	50
1,4-Dioxane	ND	^c	10000	1700	ug/L			10/15/15 20:49	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*64 - 135*		*10/15/15 20:49*	*50*
Toluene-d8 (Surr)	*104*		*71 - 118*		*10/15/15 20:49*	*50*
4-Bromofluorobenzene (Surr)	*87*		*70 - 118*		*10/15/15 20:49*	*50*
Dibromofluoromethane (Surr)	*92*		*70 - 128*		*10/15/15 20:49*	*50*

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

Client Sample ID: HD-QC-5-0/1-2
Date Collected: 10/05/15 12:00
Date Received: 10/06/15 09:00

Lab Sample ID: 180-48435-6
Matrix: Water

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*64 - 135*		*10/15/15 21:13*	*1*
Toluene-d8 (Surr)	*109*		*71 - 118*		*10/15/15 21:13*	*1*
4-Bromofluorobenzene (Surr)	*90*		*70 - 118*		*10/15/15 21:13*	*1*
Dibromofluoromethane (Surr)	*98*		*70 - 128*		*10/15/15 21:13*	*1*

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

Client Sample ID: HD-CW-9-0/1-0
Date Collected: 10/05/15 06:20
Date Received: 10/06/15 09:00

Lab Sample ID: 180-48435-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		20	5.7	ug/L			10/16/15 19:34	20
Vinyl chloride	ND	^c	20	4.5	ug/L			10/16/15 19:34	20
Bromomethane	ND	^c	20	6.3	ug/L			10/16/15 19:34	20
Chloroethane	ND	^c	20	4.3	ug/L			10/16/15 19:34	20
1,1-Dichloroethene	ND		20	5.9	ug/L			10/16/15 19:34	20
Acetone	ND		100	50	ug/L			10/16/15 19:34	20
Carbon disulfide	ND		20	4.2	ug/L			10/16/15 19:34	20
Methylene Chloride	ND		20	2.5	ug/L			10/16/15 19:34	20
trans-1,2-Dichloroethene	ND		20	3.4	ug/L			10/16/15 19:34	20
Methyl tert-butyl ether	ND		20	3.7	ug/L			10/16/15 19:34	20
1,1-Dichloroethane	**4.7**	**J**	20	2.3	ug/L			10/16/15 19:34	20
cis-1,2-Dichloroethene	**90**		20	4.7	ug/L			10/16/15 19:34	20
Bromochloromethane	ND	^c	20	3.6	ug/L			10/16/15 19:34	20
2-Butanone (MEK)	ND		100	11	ug/L			10/16/15 19:34	20
Chloroform	ND		20	3.4	ug/L			10/16/15 19:34	20
1,1,1-Trichloroethane	**21**		20	5.7	ug/L			10/16/15 19:34	20
Carbon tetrachloride	ND		20	2.7	ug/L			10/16/15 19:34	20
Benzene	ND		20	2.1	ug/L			10/16/15 19:34	20
1,2-Dichloroethane	ND		20	4.2	ug/L			10/16/15 19:34	20
Trichloroethene	**80**		20	2.9	ug/L			10/16/15 19:34	20
1,2-Dichloropropane	ND		20	1.9	ug/L			10/16/15 19:34	20
Bromodichloromethane	ND		20	2.6	ug/L			10/16/15 19:34	20
cis-1,3-Dichloropropene	ND		20	3.7	ug/L			10/16/15 19:34	20
4-Methyl-2-pentanone (MIBK)	ND		100	11	ug/L			10/16/15 19:34	20
Toluene	ND		20	3.0	ug/L			10/16/15 19:34	20
trans-1,3-Dichloropropene	ND		20	3.0	ug/L			10/16/15 19:34	20
1,1,2-Trichloroethane	ND		20	4.0	ug/L			10/16/15 19:34	20
Tetrachloroethene	**430**		20	3.0	ug/L			10/16/15 19:34	20
2-Hexanone	ND		100	3.2	ug/L			10/16/15 19:34	20
Dibromochloromethane	ND		20	2.7	ug/L			10/16/15 19:34	20
1,2-Dibromoethane (EDB)	ND		20	3.6	ug/L			10/16/15 19:34	20
Chlorobenzene	ND		20	2.7	ug/L			10/16/15 19:34	20
1,1,1,2-Tetrachloroethane	ND		20	5.5	ug/L			10/16/15 19:34	20
Ethylbenzene	ND		20	4.5	ug/L			10/16/15 19:34	20
Xylenes, Total	ND		60	9.8	ug/L			10/16/15 19:34	20
Styrene	ND		20	1.9	ug/L			10/16/15 19:34	20
Bromoform	ND		20	3.8	ug/L			10/16/15 19:34	20
1,1,2,2-Tetrachloroethane	ND		20	4.0	ug/L			10/16/15 19:34	20
Acrylonitrile	ND		400	11	ug/L			10/16/15 19:34	20
1,4-Dioxane	ND		4000	690	ug/L			10/16/15 19:34	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*64 - 135*		*10/16/15 19:34*	*20*
Toluene-d8 (Surr)	*106*		*71 - 118*		*10/16/15 19:34*	*20*
4-Bromofluorobenzene (Surr)	*93*		*70 - 118*		*10/16/15 19:34*	*20*
Dibromofluoromethane (Surr)	*93*		*70 - 128*		*10/16/15 19:34*	*20*

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

Client Sample ID: HD-CW-15A-0/1-0
Date Collected: 10/05/15 06:15
Date Received: 10/06/15 09:00

Lab Sample ID: 180-48435-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	130	E *	1.9	0.050	ug/L		10/08/15 11:02	10/13/15 17:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*59*		*28 - 109*	*10/08/15 11:02*	*10/13/15 17:08*	*1*
2-Fluorophenol (Surr)	*50*		*20 - 105*	*10/08/15 11:02*	*10/13/15 17:08*	*1*
2,4,6-Tribromophenol (Surr)	*60*		*30 - 118*	*10/08/15 11:02*	*10/13/15 17:08*	*1*
Nitrobenzene-d5 (Surr)	*58*		*27 - 114*	*10/08/15 11:02*	*10/13/15 17:08*	*1*
Phenol-d5 (Surr)	*55*		*25 - 105*	*10/08/15 11:02*	*10/13/15 17:08*	*1*
Terphenyl-d14 (Surr)	*77*		*20 - 118*	*10/08/15 11:02*	*10/13/15 17:08*	*1*

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

Client Sample ID: HD-CW-15A-0/1-0
Date Collected: 10/05/15 06:15
Date Received: 10/06/15 09:00

Lab Sample ID: 180-48435-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	120	*	29	0.76	ug/L		10/08/15 11:02	10/14/15 14:52	15

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*55*		*28 - 109*	*10/08/15 11:02*	*10/14/15 14:52*	*15*
2-Fluorophenol (Surr)	*43*		*20 - 105*	*10/08/15 11:02*	*10/14/15 14:52*	*15*
2,4,6-Tribromophenol (Surr)	*34*		*30 - 118*	*10/08/15 11:02*	*10/14/15 14:52*	*15*
Nitrobenzene-d5 (Surr)	*46*		*27 - 114*	*10/08/15 11:02*	*10/14/15 14:52*	*15*
Phenol-d5 (Surr)	*53*		*25 - 105*	*10/08/15 11:02*	*10/14/15 14:52*	*15*
Terphenyl-d14 (Surr)	*65*		*20 - 118*	*10/08/15 11:02*	*10/14/15 14:52*	*15*

Default Detection Limits

Client: Groundwater Sciences Corporation
Project/Site: Harley Davidson

TestAmerica Job ID: 180-48435-1

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: 180-48435-1

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)
180-48435-1 - DL	HD-CW-9-0/1-0	103	106	93	93
180-48435-1	HD-CW-9-0/1-0	108	104	93	100
180-48435-2	HD-CW-13-0/1-0	103	105	94	93
180-48435-3	HD-CW-15A-0/1-0	100	104	94	93
180-48435-4	HD-CW-17-0/1-0	105	106	92	98
180-48435-5	HD-CW-20-0/1-0	106	104	87	92
180-48435-6	HD-QC-5-0/1-2	105	109	90	98
LCS 180-157127/10	Lab Control Sample	99	112	104	87
LCS 180-157249/15	Lab Control Sample	96	104	93	86
LCS 180-157327/12	Lab Control Sample	97	113	108	94
MB 180-157127/6	Method Blank	101	103	95	93
MB 180-157249/12	Method Blank	100	97	88	92
MB 180-157327/5	Method Blank	88	97	85	85

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)
180-48435-3	HD-CW-15A-0/1-0	59	50	60	58	55	77
180-48435-3 - DL	HD-CW-15A-0/1-0	55	43	34	46	53	65
LCS 180-156321/2-A	Lab Control Sample	63	63	67	67	64	70
LCSD 180-156321/3-A	Lab Control Sample Dup	62	62	67	64	64	71
MB 180-156321/1-A	Method Blank	73	75	59	77	76	78

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 180-157127/6
Matrix: Water
Analysis Batch: 157127

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		1.0	0.28	ug/L			10/15/15 14:08	1
Vinyl chloride	ND		1.0	0.23	ug/L			10/15/15 14:08	1
Bromomethane	ND		1.0	0.31	ug/L			10/15/15 14:08	1
Chloroethane	ND		1.0	0.21	ug/L			10/15/15 14:08	1
1,1-Dichloroethene	ND		1.0	0.30	ug/L			10/15/15 14:08	1
Acetone	ND		5.0	2.5	ug/L			10/15/15 14:08	1
Carbon disulfide	ND		1.0	0.21	ug/L			10/15/15 14:08	1
Methylene Chloride	ND		1.0	0.13	ug/L			10/15/15 14:08	1
trans-1,2-Dichloroethene	ND		1.0	0.17	ug/L			10/15/15 14:08	1
Methyl tert-butyl ether	ND		1.0	0.18	ug/L			10/15/15 14:08	1
1,1-Dichloroethane	ND		1.0	0.12	ug/L			10/15/15 14:08	1
cis-1,2-Dichloroethene	ND		1.0	0.24	ug/L			10/15/15 14:08	1
Bromochloromethane	ND		1.0	0.18	ug/L			10/15/15 14:08	1
2-Butanone (MEK)	ND		5.0	0.55	ug/L			10/15/15 14:08	1
Chloroform	ND		1.0	0.17	ug/L			10/15/15 14:08	1
1,1,1-Trichloroethane	ND		1.0	0.29	ug/L			10/15/15 14:08	1
Carbon tetrachloride	ND		1.0	0.14	ug/L			10/15/15 14:08	1
Benzene	ND		1.0	0.11	ug/L			10/15/15 14:08	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			10/15/15 14:08	1
Trichloroethene	ND		1.0	0.14	ug/L			10/15/15 14:08	1
1,2-Dichloropropane	ND		1.0	0.095	ug/L			10/15/15 14:08	1
Bromodichloromethane	ND		1.0	0.13	ug/L			10/15/15 14:08	1
cis-1,3-Dichloropropene	ND		1.0	0.19	ug/L			10/15/15 14:08	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.53	ug/L			10/15/15 14:08	1
Toluene	ND		1.0	0.15	ug/L			10/15/15 14:08	1
trans-1,3-Dichloropropene	ND		1.0	0.15	ug/L			10/15/15 14:08	1
1,1,2-Trichloroethane	ND		1.0	0.20	ug/L			10/15/15 14:08	1
Tetrachloroethene	ND		1.0	0.15	ug/L			10/15/15 14:08	1
2-Hexanone	ND		5.0	0.16	ug/L			10/15/15 14:08	1
Dibromochloromethane	ND		1.0	0.14	ug/L			10/15/15 14:08	1
1,2-Dibromoethane (EDB)	ND		1.0	0.18	ug/L			10/15/15 14:08	1
Chlorobenzene	ND		1.0	0.14	ug/L			10/15/15 14:08	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.28	ug/L			10/15/15 14:08	1
Ethylbenzene	ND		1.0	0.23	ug/L			10/15/15 14:08	1
Xylenes, Total	ND		3.0	0.49	ug/L			10/15/15 14:08	1
Styrene	ND		1.0	0.097	ug/L			10/15/15 14:08	1
Bromoform	ND		1.0	0.19	ug/L			10/15/15 14:08	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.20	ug/L			10/15/15 14:08	1
Acrylonitrile	ND		20	0.55	ug/L			10/15/15 14:08	1
1,4-Dioxane	ND		200	34	ug/L			10/15/15 14:08	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*64 - 135*		*10/15/15 14:08*	*1*
Toluene-d8 (Surr)	*103*		*71 - 118*		*10/15/15 14:08*	*1*
4-Bromofluorobenzene (Surr)	*95*		*70 - 118*		*10/15/15 14:08*	*1*
Dibromofluoromethane (Surr)	*93*		*70 - 128*		*10/15/15 14:08*	*1*

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

Lab Sample ID: LCS 180-157127/10
Matrix: Water
Analysis Batch: 157127

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	9.71		ug/L		97	50 - 139
Vinyl chloride	10.0	8.06		ug/L		81	53 - 138
Bromomethane	10.0	8.03		ug/L		80	33 - 150
Chloroethane	10.0	7.31		ug/L		73	36 - 142
1,1-Dichloroethene	10.0	9.39		ug/L		94	65 - 136
Acetone	20.0	19.9		ug/L		99	22 - 150
Carbon disulfide	10.0	10.0		ug/L		100	54 - 132
Methylene Chloride	10.0	9.92		ug/L		99	63 - 129
trans-1,2-Dichloroethene	10.0	9.68		ug/L		97	73 - 126
Methyl tert-butyl ether	10.0	9.53		ug/L		95	64 - 123
1,1-Dichloroethane	10.0	9.61		ug/L		96	73 - 126
cis-1,2-Dichloroethene	10.0	9.55		ug/L		96	70 - 120
Bromochloromethane	10.0	8.75		ug/L		88	70 - 127
2-Butanone (MEK)	20.0	19.4		ug/L		97	39 - 138
Chloroform	10.0	9.41		ug/L		94	72 - 127
1,1,1-Trichloroethane	10.0	9.64		ug/L		96	63 - 133
Carbon tetrachloride	10.0	9.66		ug/L		97	55 - 150
Benzene	10.0	10.2		ug/L		102	80 - 120
1,2-Dichloroethane	10.0	9.87		ug/L		99	68 - 132
Trichloroethene	10.0	9.16		ug/L		92	73 - 120
1,2-Dichloropropane	10.0	9.92		ug/L		99	76 - 124
Bromodichloromethane	10.0	9.80		ug/L		98	66 - 130
cis-1,3-Dichloropropene	10.0	8.94		ug/L		89	66 - 120
4-Methyl-2-pentanone (MIBK)	20.0	18.6		ug/L		93	45 - 145
Toluene	10.0	11.0		ug/L		110	80 - 123
trans-1,3-Dichloropropene	10.0	9.97		ug/L		100	65 - 125
1,1,2-Trichloroethane	10.0	10.7		ug/L		107	77 - 127
Tetrachloroethene	10.0	10.8		ug/L		108	70 - 135
2-Hexanone	20.0	18.1		ug/L		90	25 - 132
Dibromochloromethane	10.0	9.40		ug/L		94	60 - 140
1,2-Dibromoethane (EDB)	10.0	10.2		ug/L		102	74 - 123
Chlorobenzene	10.0	10.3		ug/L		103	80 - 120
1,1,1,2-Tetrachloroethane	10.0	9.76		ug/L		98	63 - 140
Ethylbenzene	10.0	10.7		ug/L		107	72 - 126
Xylenes, Total	20.0	21.4		ug/L		107	76 - 128
Styrene	10.0	11.4		ug/L		114	71 - 127
Bromoform	10.0	10.7		ug/L		107	46 - 150
1,1,2,2-Tetrachloroethane	10.0	11.7		ug/L		117	62 - 125
Acrylonitrile	100	112		ug/L		112	30 - 140
1,4-Dioxane	200	287		ug/L		144	10 - 160

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*99*		*64 - 135*
Toluene-d8 (Surr)	*112*		*71 - 118*
4-Bromofluorobenzene (Surr)	*104*		*70 - 118*
Dibromofluoromethane (Surr)	*87*		*70 - 128*

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

Lab Sample ID: MB 180-157249/12
Matrix: Water
Analysis Batch: 157249

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		1.0	0.28	ug/L			10/16/15 16:19	1
Vinyl chloride	ND		1.0	0.23	ug/L			10/16/15 16:19	1
Bromomethane	ND		1.0	0.31	ug/L			10/16/15 16:19	1
Chloroethane	ND		1.0	0.21	ug/L			10/16/15 16:19	1
1,1-Dichloroethene	ND		1.0	0.30	ug/L			10/16/15 16:19	1
Acetone	ND		5.0	2.5	ug/L			10/16/15 16:19	1
Carbon disulfide	ND		1.0	0.21	ug/L			10/16/15 16:19	1
Methylene Chloride	ND		1.0	0.13	ug/L			10/16/15 16:19	1
trans-1,2-Dichloroethene	ND		1.0	0.17	ug/L			10/16/15 16:19	1
Methyl tert-butyl ether	ND		1.0	0.18	ug/L			10/16/15 16:19	1
1,1-Dichloroethane	ND		1.0	0.12	ug/L			10/16/15 16:19	1
cis-1,2-Dichloroethene	ND		1.0	0.24	ug/L			10/16/15 16:19	1
Bromochloromethane	ND		1.0	0.18	ug/L			10/16/15 16:19	1
2-Butanone (MEK)	ND		5.0	0.55	ug/L			10/16/15 16:19	1
Chloroform	ND		1.0	0.17	ug/L			10/16/15 16:19	1
1,1,1-Trichloroethane	ND		1.0	0.29	ug/L			10/16/15 16:19	1
Carbon tetrachloride	ND		1.0	0.14	ug/L			10/16/15 16:19	1
Benzene	ND		1.0	0.11	ug/L			10/16/15 16:19	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			10/16/15 16:19	1
Trichloroethene	ND		1.0	0.14	ug/L			10/16/15 16:19	1
1,2-Dichloropropane	ND		1.0	0.095	ug/L			10/16/15 16:19	1
Bromodichloromethane	ND		1.0	0.13	ug/L			10/16/15 16:19	1
cis-1,3-Dichloropropene	ND		1.0	0.19	ug/L			10/16/15 16:19	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.53	ug/L			10/16/15 16:19	1
Toluene	ND		1.0	0.15	ug/L			10/16/15 16:19	1
trans-1,3-Dichloropropene	ND		1.0	0.15	ug/L			10/16/15 16:19	1
1,1,2-Trichloroethane	ND		1.0	0.20	ug/L			10/16/15 16:19	1
Tetrachloroethene	ND		1.0	0.15	ug/L			10/16/15 16:19	1
2-Hexanone	ND		5.0	0.16	ug/L			10/16/15 16:19	1
Dibromochloromethane	ND		1.0	0.14	ug/L			10/16/15 16:19	1
1,2-Dibromoethane (EDB)	ND		1.0	0.18	ug/L			10/16/15 16:19	1
Chlorobenzene	ND		1.0	0.14	ug/L			10/16/15 16:19	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.28	ug/L			10/16/15 16:19	1
Ethylbenzene	ND		1.0	0.23	ug/L			10/16/15 16:19	1
Xylenes, Total	ND		3.0	0.49	ug/L			10/16/15 16:19	1
Styrene	ND		1.0	0.097	ug/L			10/16/15 16:19	1
Bromoform	ND		1.0	0.19	ug/L			10/16/15 16:19	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.20	ug/L			10/16/15 16:19	1
Acrylonitrile	ND		20	0.55	ug/L			10/16/15 16:19	1
1,4-Dioxane	ND		200	34	ug/L			10/16/15 16:19	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*64 - 135*		*10/16/15 16:19*	*1*
Toluene-d8 (Surr)	*97*		*71 - 118*		*10/16/15 16:19*	*1*
4-Bromofluorobenzene (Surr)	*88*		*70 - 118*		*10/16/15 16:19*	*1*
Dibromofluoromethane (Surr)	*92*		*70 - 128*		*10/16/15 16:19*	*1*

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

Lab Sample ID: LCS 180-157249/15
Matrix: Water
Analysis Batch: 157249

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	8.57		ug/L		86	50 - 139
Vinyl chloride	10.0	7.45		ug/L		74	53 - 138
Bromomethane	10.0	7.06		ug/L		71	33 - 150
Chloroethane	10.0	6.01		ug/L		60	36 - 142
1,1-Dichloroethene	10.0	8.72		ug/L		87	65 - 136
Acetone	20.0	17.6		ug/L		88	22 - 150
Carbon disulfide	10.0	8.81		ug/L		88	54 - 132
Methylene Chloride	10.0	9.36		ug/L		94	63 - 129
trans-1,2-Dichloroethene	10.0	9.47		ug/L		95	73 - 126
Methyl tert-butyl ether	10.0	9.11		ug/L		91	64 - 123
1,1-Dichloroethane	10.0	9.31		ug/L		93	73 - 126
cis-1,2-Dichloroethene	10.0	9.52		ug/L		95	70 - 120
Bromochloromethane	10.0	8.80		ug/L		88	70 - 127
2-Butanone (MEK)	20.0	21.2		ug/L		106	39 - 138
Chloroform	10.0	9.50		ug/L		95	72 - 127
1,1,1-Trichloroethane	10.0	8.99		ug/L		90	63 - 133
Carbon tetrachloride	10.0	8.67		ug/L		87	55 - 150
Benzene	10.0	9.87		ug/L		99	80 - 120
1,2-Dichloroethane	10.0	10.0		ug/L		100	68 - 132
Trichloroethene	10.0	8.75		ug/L		87	73 - 120
1,2-Dichloropropane	10.0	9.75		ug/L		98	76 - 124
Bromodichloromethane	10.0	9.55		ug/L		96	66 - 130
cis-1,3-Dichloropropene	10.0	9.38		ug/L		94	66 - 120
4-Methyl-2-pentanone (MIBK)	20.0	19.0		ug/L		95	45 - 145
Toluene	10.0	10.8		ug/L		108	80 - 123
trans-1,3-Dichloropropene	10.0	10.1		ug/L		101	65 - 125
1,1,2-Trichloroethane	10.0	10.7		ug/L		107	77 - 127
Tetrachloroethene	10.0	10.4		ug/L		104	70 - 135
2-Hexanone	20.0	19.1		ug/L		96	25 - 132
Dibromochloromethane	10.0	9.86		ug/L		99	60 - 140
1,2-Dibromoethane (EDB)	10.0	11.0		ug/L		110	74 - 123
Chlorobenzene	10.0	9.83		ug/L		98	80 - 120
1,1,1,2-Tetrachloroethane	10.0	9.68		ug/L		97	63 - 140
Ethylbenzene	10.0	10.1		ug/L		101	72 - 126
Xylenes, Total	20.0	20.2		ug/L		101	76 - 128
Styrene	10.0	10.8		ug/L		108	71 - 127
Bromoform	10.0	10.4		ug/L		104	46 - 150
1,1,2,2-Tetrachloroethane	10.0	10.4		ug/L		104	62 - 125
Acrylonitrile	100	94.5		ug/L		94	30 - 140
1,4-Dioxane	200	187	J	ug/L		93	10 - 160

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*96*		*64 - 135*
Toluene-d8 (Surr)	*104*		*71 - 118*
4-Bromofluorobenzene (Surr)	*93*		*70 - 118*
Dibromofluoromethane (Surr)	*86*		*70 - 128*

Client: Groundwater Sciences Corporation
Project/Site: Harley Davidson

TestAmerica Job ID: 180-48435-1

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

Lab Sample ID: MB 180-157327/5
Matrix: Water
Analysis Batch: 157327

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		1.0	0.28	ug/L			10/17/15 11:40	1
Vinyl chloride	ND		1.0	0.23	ug/L			10/17/15 11:40	1
Bromomethane	ND		1.0	0.31	ug/L			10/17/15 11:40	1
Chloroethane	ND		1.0	0.21	ug/L			10/17/15 11:40	1
1,1-Dichloroethene	ND		1.0	0.30	ug/L			10/17/15 11:40	1
Acetone	ND		5.0	2.5	ug/L			10/17/15 11:40	1
Carbon disulfide	ND		1.0	0.21	ug/L			10/17/15 11:40	1
Methylene Chloride	ND		1.0	0.13	ug/L			10/17/15 11:40	1
trans-1,2-Dichloroethene	ND		1.0	0.17	ug/L			10/17/15 11:40	1
Methyl tert-butyl ether	ND		1.0	0.18	ug/L			10/17/15 11:40	1
1,1-Dichloroethane	ND		1.0	0.12	ug/L			10/17/15 11:40	1
cis-1,2-Dichloroethene	ND		1.0	0.24	ug/L			10/17/15 11:40	1
Bromochloromethane	ND		1.0	0.18	ug/L			10/17/15 11:40	1
2-Butanone (MEK)	ND		5.0	0.55	ug/L			10/17/15 11:40	1
Chloroform	ND		1.0	0.17	ug/L			10/17/15 11:40	1
1,1,1-Trichloroethane	ND		1.0	0.29	ug/L			10/17/15 11:40	1
Carbon tetrachloride	ND		1.0	0.14	ug/L			10/17/15 11:40	1
Benzene	ND		1.0	0.11	ug/L			10/17/15 11:40	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			10/17/15 11:40	1
Trichloroethene	ND		1.0	0.14	ug/L			10/17/15 11:40	1
1,2-Dichloropropane	ND		1.0	0.095	ug/L			10/17/15 11:40	1
Bromodichloromethane	ND		1.0	0.13	ug/L			10/17/15 11:40	1
cis-1,3-Dichloropropene	ND		1.0	0.19	ug/L			10/17/15 11:40	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.53	ug/L			10/17/15 11:40	1
Toluene	ND		1.0	0.15	ug/L			10/17/15 11:40	1
trans-1,3-Dichloropropene	ND		1.0	0.15	ug/L			10/17/15 11:40	1
1,1,2-Trichloroethane	ND		1.0	0.20	ug/L			10/17/15 11:40	1
Tetrachloroethene	ND		1.0	0.15	ug/L			10/17/15 11:40	1
2-Hexanone	ND		5.0	0.16	ug/L			10/17/15 11:40	1
Dibromochloromethane	ND		1.0	0.14	ug/L			10/17/15 11:40	1
1,2-Dibromoethane (EDB)	ND		1.0	0.18	ug/L			10/17/15 11:40	1
Chlorobenzene	ND		1.0	0.14	ug/L			10/17/15 11:40	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.28	ug/L			10/17/15 11:40	1
Ethylbenzene	ND		1.0	0.23	ug/L			10/17/15 11:40	1
Xylenes, Total	ND		3.0	0.49	ug/L			10/17/15 11:40	1
Styrene	ND		1.0	0.097	ug/L			10/17/15 11:40	1
Bromoform	ND		1.0	0.19	ug/L			10/17/15 11:40	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.20	ug/L			10/17/15 11:40	1
Acrylonitrile	ND		20	0.55	ug/L			10/17/15 11:40	1
1,4-Dioxane	ND		200	34	ug/L			10/17/15 11:40	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*88*		*64 - 135*		*10/17/15 11:40*	*1*
Toluene-d8 (Surr)	*97*		*71 - 118*		*10/17/15 11:40*	*1*
4-Bromofluorobenzene (Surr)	*85*		*70 - 118*		*10/17/15 11:40*	*1*
Dibromofluoromethane (Surr)	*85*		*70 - 128*		*10/17/15 11:40*	*1*

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

Lab Sample ID: LCS 180-157327/12
Matrix: Water
Analysis Batch: 157327

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	8.88		ug/L		89	50 - 139
Vinyl chloride	10.0	7.83		ug/L		78	53 - 138
Bromomethane	10.0	6.75		ug/L		67	33 - 150
Chloroethane	10.0	6.25		ug/L		63	36 - 142
1,1-Dichloroethene	10.0	9.63		ug/L		96	65 - 136
Acetone	20.0	17.7		ug/L		88	22 - 150
Carbon disulfide	10.0	10.5		ug/L		105	54 - 132
Methylene Chloride	10.0	10.5		ug/L		105	63 - 129
trans-1,2-Dichloroethene	10.0	9.55		ug/L		96	73 - 126
Methyl tert-butyl ether	10.0	10.1		ug/L		101	64 - 123
1,1-Dichloroethane	10.0	10.1		ug/L		101	73 - 126
cis-1,2-Dichloroethene	10.0	9.52		ug/L		95	70 - 120
Bromochloromethane	10.0	9.37		ug/L		94	70 - 127
2-Butanone (MEK)	20.0	18.7		ug/L		93	39 - 138
Chloroform	10.0	9.78		ug/L		98	72 - 127
1,1,1-Trichloroethane	10.0	9.47		ug/L		95	63 - 133
Carbon tetrachloride	10.0	9.32		ug/L		93	55 - 150
Benzene	10.0	9.79		ug/L		98	80 - 120
1,2-Dichloroethane	10.0	10.1		ug/L		101	68 - 132
Trichloroethene	10.0	8.86		ug/L		89	73 - 120
1,2-Dichloropropane	10.0	9.57		ug/L		96	76 - 124
Bromodichloromethane	10.0	9.99		ug/L		100	66 - 130
cis-1,3-Dichloropropene	10.0	8.63		ug/L		86	66 - 120
4-Methyl-2-pentanone (MIBK)	20.0	22.6		ug/L		113	45 - 145
Toluene	10.0	11.5		ug/L		115	80 - 123
trans-1,3-Dichloropropene	10.0	10.5		ug/L		105	65 - 125
1,1,2-Trichloroethane	10.0	10.4		ug/L		104	77 - 127
Tetrachloroethene	10.0	11.2		ug/L		112	70 - 135
2-Hexanone	20.0	20.3		ug/L		102	25 - 132
Dibromochloromethane	10.0	9.90		ug/L		99	60 - 140
1,2-Dibromoethane (EDB)	10.0	10.9		ug/L		109	74 - 123
Chlorobenzene	10.0	10.5		ug/L		105	80 - 120
1,1,1,2-Tetrachloroethane	10.0	11.0		ug/L		110	63 - 140
Ethylbenzene	10.0	11.0		ug/L		110	72 - 126
Xylenes, Total	20.0	22.0		ug/L		110	76 - 128
Styrene	10.0	11.5		ug/L		115	71 - 127
Bromoform	10.0	10.1		ug/L		101	46 - 150
1,1,2,2-Tetrachloroethane	10.0	11.7		ug/L		117	62 - 125
Acrylonitrile	100	102		ug/L		102	30 - 140
1,4-Dioxane	200	126	J	ug/L		63	10 - 160

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*97*		*64 - 135*
Toluene-d8 (Surr)	*113*		*71 - 118*
4-Bromofluorobenzene (Surr)	*108*		*70 - 118*
Dibromofluoromethane (Surr)	*94*		*70 - 128*

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

Lab Sample ID: MB 180-156321/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 156809 — **Prep Batch: 156321**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		2.0	0.052	ug/L		10/08/15 11:02	10/13/15 11:24	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*73*		*28 - 109*	*10/08/15 11:02*	*10/13/15 11:24*	*1*
2-Fluorophenol (Surr)	*75*		*20 - 105*	*10/08/15 11:02*	*10/13/15 11:24*	*1*
2,4,6-Tribromophenol (Surr)	*59*		*30 - 118*	*10/08/15 11:02*	*10/13/15 11:24*	*1*
Nitrobenzene-d5 (Surr)	*77*		*27 - 114*	*10/08/15 11:02*	*10/13/15 11:24*	*1*
Phenol-d5 (Surr)	*76*		*25 - 105*	*10/08/15 11:02*	*10/13/15 11:24*	*1*
Terphenyl-d14 (Surr)	*78*		*20 - 118*	*10/08/15 11:02*	*10/13/15 11:24*	*1*

Lab Sample ID: LCS 180-156321/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 156809 — **Prep Batch: 156321**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,4-Dioxane			20.0	7.52		ug/L		38	36 - 100		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*63*		*28 - 109*
2-Fluorophenol (Surr)	*63*		*20 - 105*
2,4,6-Tribromophenol (Surr)	*67*		*30 - 118*
Nitrobenzene-d5 (Surr)	*67*		*27 - 114*
Phenol-d5 (Surr)	*64*		*25 - 105*
Terphenyl-d14 (Surr)	*70*		*20 - 118*

Lab Sample ID: LCSD 180-156321/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 156809 — **Prep Batch: 156321**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dioxane			20.0	7.02	*	ug/L		35	36 - 100	7	26

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl	*62*		*28 - 109*
2-Fluorophenol (Surr)	*62*		*20 - 105*
2,4,6-Tribromophenol (Surr)	*67*		*30 - 118*
Nitrobenzene-d5 (Surr)	*64*		*27 - 114*
Phenol-d5 (Surr)	*64*		*25 - 105*
Terphenyl-d14 (Surr)	*71*		*20 - 118*

QC Association Summary

Client: Groundwater Sciences Corporation
Project/Site: Harley Davidson

TestAmerica Job ID: 180-48435-1

GC/MS VOA

Analysis Batch: 157127

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-48435-2	HD-CW-13-0/1-0	Total/NA	Water	8260C	
180-48435-3	HD-CW-15A-0/1-0	Total/NA	Water	8260C	
180-48435-4	HD-CW-17-0/1-0	Total/NA	Water	8260C	
180-48435-5	HD-CW-20-0/1-0	Total/NA	Water	8260C	
180-48435-6	HD-QC-5-0/1-2	Total/NA	Water	8260C	
LCS 180-157127/10	Lab Control Sample	Total/NA	Water	8260C	
MB 180-157127/6	Method Blank	Total/NA	Water	8260C	

Analysis Batch: 157249

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-48435-1 - DL	HD-CW-9-0/1-0	Total/NA	Water	8260C	
LCS 180-157249/15	Lab Control Sample	Total/NA	Water	8260C	
MB 180-157249/12	Method Blank	Total/NA	Water	8260C	

Analysis Batch: 157327

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-48435-1	HD-CW-9-0/1-0	Total/NA	Water	8260C	
LCS 180-157327/12	Lab Control Sample	Total/NA	Water	8260C	
MB 180-157327/5	Method Blank	Total/NA	Water	8260C	

GC/MS Semi VOA

Prep Batch: 156321

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-48435-3 - DL	HD-CW-15A-0/1-0	Total/NA	Water	3520C	
180-48435-3	HD-CW-15A-0/1-0	Total/NA	Water	3520C	
LCS 180-156321/2-A	Lab Control Sample	Total/NA	Water	3520C	
LCSD 180-156321/3-A	Lab Control Sample Dup	Total/NA	Water	3520C	
MB 180-156321/1-A	Method Blank	Total/NA	Water	3520C	

Analysis Batch: 156809

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-48435-3	HD-CW-15A-0/1-0	Total/NA	Water	8270D LL	156321
LCS 180-156321/2-A	Lab Control Sample	Total/NA	Water	8270D LL	156321
LCSD 180-156321/3-A	Lab Control Sample Dup	Total/NA	Water	8270D LL	156321
MB 180-156321/1-A	Method Blank	Total/NA	Water	8270D LL	156321

Analysis Batch: 156981

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-48435-3 - DL	HD-CW-15A-0/1-0	Total/NA	Water	8270D LL	156321

Client Sample ID: HD-CW-9-0/1-0
Date Collected: 10/05/15 06:20
Date Received: 10/06/15 09:00

Lab Sample ID: 180-48435-1
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	DL	20	5 mL	5 mL	157249	10/16/15 19:34	PJJ	TAL PIT
	Instrument ID: CHHP5									
Total/NA	Analysis	8260C		2	5 mL	5 mL	157327	10/17/15 20:49	PJJ	TAL PIT
	Instrument ID: CHHP5									

Client Sample ID: HD-CW-13-0/1-0
Date Collected: 10/05/15 06:30
Date Received: 10/06/15 09:00

Lab Sample ID: 180-48435-2
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		25	5 mL	5 mL	157127	10/15/15 19:12	DLF	TAL PIT
	Instrument ID: CHHP5									

Client Sample ID: HD-CW-15A-0/1-0
Date Collected: 10/05/15 06:15
Date Received: 10/06/15 09:00

Lab Sample ID: 180-48435-3
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		500	5 mL	5 mL	157127	10/15/15 19:36	DLF	TAL PIT
	Instrument ID: CHHP5									
Total/NA	Prep	3520C			260 mL	0.25 mL	156321	10/08/15 11:02	BJT	TAL PIT
Total/NA	Analysis	8270D LL		1	260 mL	0.25 mL	156809	10/13/15 17:08	VVP	TAL PIT
	Instrument ID: CH731									
Total/NA	Prep	3520C	DL		260 mL	0.25 mL	156321	10/08/15 11:02	BJT	TAL PIT
Total/NA	Analysis	8270D LL	DL	15	260 mL	0.25 mL	156981	10/14/15 14:52	VVP	TAL PIT
	Instrument ID: CH731									

Client Sample ID: HD-CW-17-0/1-0
Date Collected: 10/05/15 06:35
Date Received: 10/06/15 09:00

Lab Sample ID: 180-48435-4
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		5	5 mL	5 mL	157127	10/15/15 20:25	DLF	TAL PIT
	Instrument ID: CHHP5									

Client Sample ID: HD-CW-20-0/1-0
Date Collected: 10/05/15 06:25
Date Received: 10/06/15 09:00

Lab Sample ID: 180-48435-5
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		50	5 mL	5 mL	157127	10/15/15 20:49	DLF	TAL PIT
	Instrument ID: CHHP5									

Client Sample ID: HD-QC-5-0/1-2

Date Collected: 10/05/15 12:00
Date Received: 10/06/15 09:00

Lab Sample ID: 180-48435-6

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	157127	10/15/15 21:13	DLF	TAL PIT
	Instrument ID: CHHP5									

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

PJJ = Patrick Journet

VVP = Vincent Piccolino

Certification Summary

Client: Groundwater Sciences Corporation
Project/Site: Harley Davidson

TestAmerica Job ID: 180-48435-1

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: 180-48435-1

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: 180-48435-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-48435-1	HD-CW-9-0/1-0	Water	10/05/15 06:20	10/06/15 09:00
180-48435-2	HD-CW-13-0/1-0	Water	10/05/15 06:30	10/06/15 09:00
180-48435-3	HD-CW-15A-0/1-0	Water	10/05/15 06:15	10/06/15 09:00
180-48435-4	HD-CW-17-0/1-0	Water	10/05/15 06:35	10/06/15 09:00
180-48435-5	HD-CW-20-0/1-0	Water	10/05/15 06:25	10/06/15 09:00
180-48435-6	HD-QC-5-0/1-2	Water	10/05/15 12:00	10/06/15 09:00

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48435-1

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.: 180-48435-1

SDG No.:

Instrument ID: CHHP5 Analysis Batch Number: 157127

Lab Sample ID: CCVIS 180-157127/2 Client Sample ID:

Date Analyzed: 10/15/15 12:56 Lab File ID: 51015002.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Trichlorofluoromethane	2.70	Incomplete Integration	fergusond	10/15/15 13:45
1,4-Dioxane	8.03	Incomplete Integration	fergusond	10/15/15 13:45

Lab Sample ID: 180-48435-3 Client Sample ID: HD-CW-15A-0/1-0

Date Analyzed: 10/15/15 19:36 Lab File ID: 51015019.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetone	3.46	Incomplete Integration	fergusond	10/16/15 08:22

Lab Sample ID: 180-48435-5 Client Sample ID: HD-CW-20-0/1-0

Date Analyzed: 10/15/15 20:49 Lab File ID: 51015022.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,1-Dichloroethene	3.38	Incomplete Integration	fergusond	10/16/15 08:25

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48435-1

SDG No.:

Instrument ID: CHHP5 Analysis Batch Number: 157249

Lab Sample ID: CCVIS 180-157249/4 Client Sample ID:

Date Analyzed: 10/16/15 15:06 Lab File ID: 51016004.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Trichlorofluoromethane	2.71	Incomplete Integration	fergusond	10/16/15 15:36
Acrolein	3.23	Incomplete Integration	fergusond	10/16/15 15:36
1,4-Dioxane	8.03	Incomplete Integration	fergusond	10/16/15 15:36

Lab Sample ID: LCS 180-157249/15 Client Sample ID:

Date Analyzed: 10/16/15 17:58 Lab File ID: 51016015.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	8.04	Incomplete Integration	fergusond	10/16/15 18:19

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48435-1

SDG No.:

Instrument ID: CHHP5 Analysis Batch Number: 157327

Lab Sample ID: CCVIS 180-157327/2 Client Sample ID:

Date Analyzed: 10/17/15 10:09 Lab File ID: 51017002.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
TBA-d9 (IS)	4.26	Poor chromatography	journetp	10/17/15 10:34
2-Butanone (MEK)	5.96	Poor chromatography	journetp	10/17/15 10:34
1,4-Dioxane	8.03	Poor chromatography	journetp	10/17/15 10:34

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48435-1

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.: 180-48435-1

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

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48435-1

SDG No.:

Instrument ID: CH731 Analysis Batch Number: 156809

Lab Sample ID: CCVIS 180-156809/3 Client Sample ID:

Date Analyzed: 10/13/15 10:56 Lab File ID: V1013003.D GC Column: Rxi-5SilMS ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Pyridine	2.21	Poor chromatography	piccolinov	10/13/15 12:55

Lab Name: TestAmerica Pittsburgh Job No.: 180-48435-1

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.: 180-48435-1

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.: 180-48435-1

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.: 180-48435-1

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.: 180-48435-1

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	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	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.: 180-48435-1

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.: 180-48435-1

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.: 180-48435-1

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.: 180-48435-1

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.: 180-48435-1

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.: 180-48435-1

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.: 180-48435-1

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.: 180-48435-1

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.: 180-48435-1

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.: 180-48435-1

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.: 180-48435-1

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.: 180-48435-1

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.: 180-48435-1

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.: 180-48435-1

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.: 180-48435-1

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.: 180-48435-1

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.: 180-48435-1

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.: 180-48435-1

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.: 180-48435-1

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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48435-1

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.: 180-48435-1

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.: 180-48435-1

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.: 180-48435-1

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.: 180-48435-1

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.: 180-48435-1

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.: 180-48435-1

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.: 180-48435-1

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.: 180-48435-1

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.: 180-48435-1

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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48435-1

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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48435-1

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.: 180-48435-1

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-48435-1

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.: 180-48435-1

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.: 180-48435-1

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.: 180-48435-1

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.: 180-48435-1

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.: 180-48435-1

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.: 180-48435-1

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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48435-1

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.: 180-48435-1

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.: 180-48435-1

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.: 180-48435-1

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.: 180-48435-1

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.: 180-48435-1

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.: 180-48435-1

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.: 180-48435-1

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.: 180-48435-1

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.: 180-48435-1

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.: 180-48435-1

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.: 180-48435-1

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.: 180-48435-1

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.: 180-48435-1

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_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_00043	10/24/15	09/24/15	Methanol, Lot 99494	10 mL	VOA8260INTRES_00104	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_00104	05/31/20		Restek, Lot A0110961		(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_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_00043	10/24/15	09/24/15	Methanol, Lot 99494	100 mL	VOA8260SURRES_00081	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_00081	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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48435-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
VOA8260VOA2ND_00147	10/19/15	10/12/15	Methanol, Lot 99494	10 mL	VOA8260GAS2ND_00116	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
							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_00116	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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48435-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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
							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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48435-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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_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-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
							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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48435-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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
							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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48435-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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-Butanone (MEK)	250 ug/mL
							2-Hexanone	250 ug/mL
							4-Methyl-2-pentanone (MIBK)	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
							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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48435-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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
							Trichloroethene	250 ug/mL
..VOA8260KET1ST_00048	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_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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48435-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2,4-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
							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

Lab Name: TestAmerica Pittsburgh Job No.: 180-48435-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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_00148	10/19/15	10/12/15	Methanol, Lot 99494	10 mL	VOA8260GAS1ST_00119	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
							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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48435-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Xylenes, Total	50 ug/mL
.VOA8260GAS1ST_00119	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
							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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48435-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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
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
							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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48435-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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
voaWKet1 Rest_00001	09/11/15	08/11/15	Methanol, Lot 85233	50 mL	VOA8260KET1ST_00049	0.1 mL	2-Hexanone	25 ug/mL
							Acetone	25 ug/mL
.VOA8260KET1ST_00049	04/30/18		Restek, Lot A0110400		(Purchased Reagent)		2-Hexanone	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

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

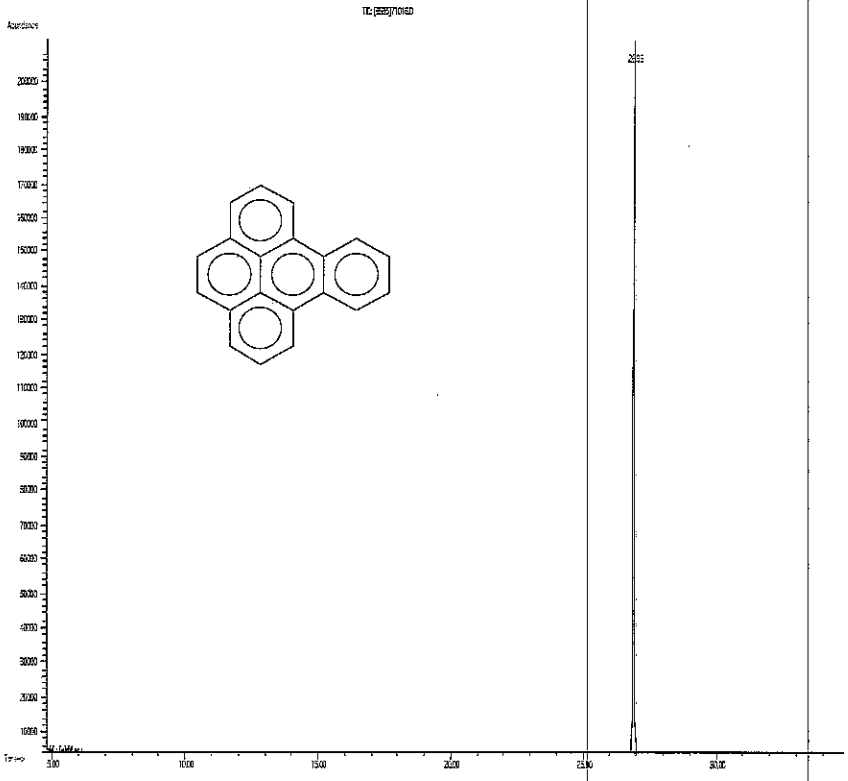
Paul Barron 100313
Formulated By: Paul Barron DATE

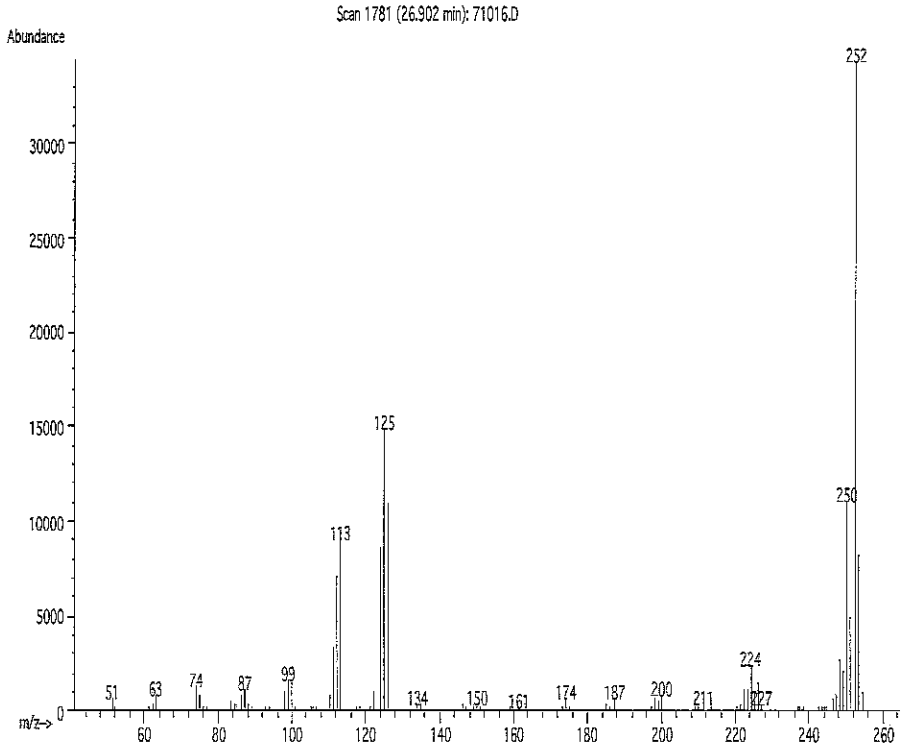
Pedro Rentas 100313
Reviewed By: Pedro L. Rentas DATE

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

ISO 9001 QS Registered
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

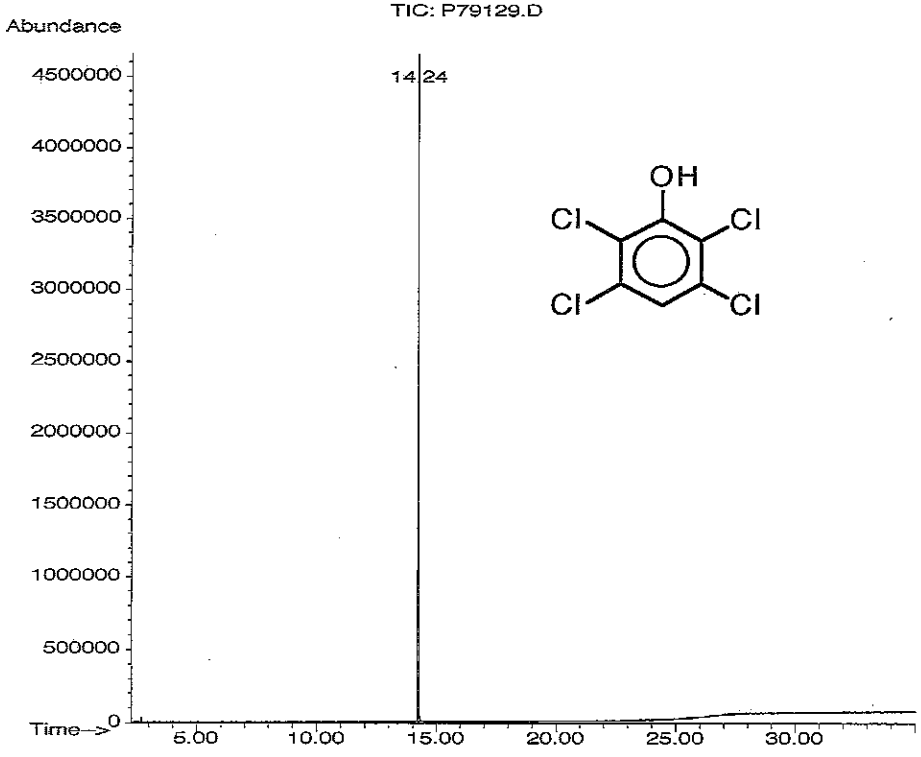
Solvent(s): Lot # J42S08 Methylene chloride

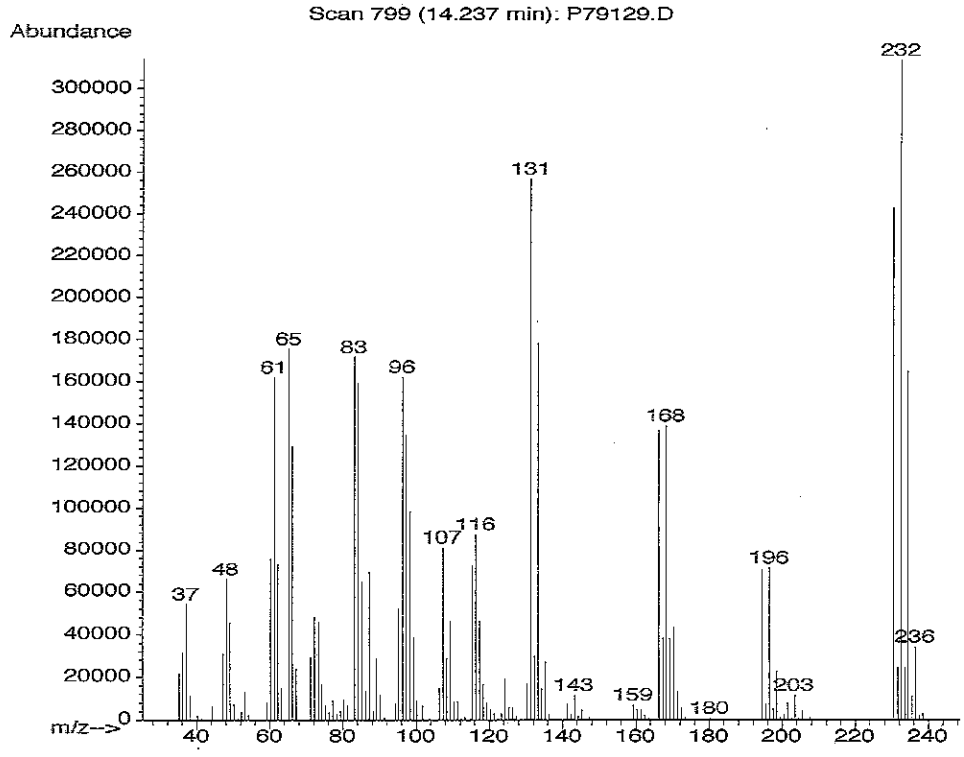
5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to: 25.0 0.001 Flask Uncertainty

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

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty ± Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty	CAS#	MSDS Information (Solvent Safety Info. On Attached pg.) 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
ISO 17025:2005 Accredited A2LA Cert. No. 0851-01
ISO 9001:2008 Registered TUV USA, Inc. Cert. No. 09-1009

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

William J. Leary
Quality Assurance Manager

Reagent

sv712dimbenza_00011

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

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		

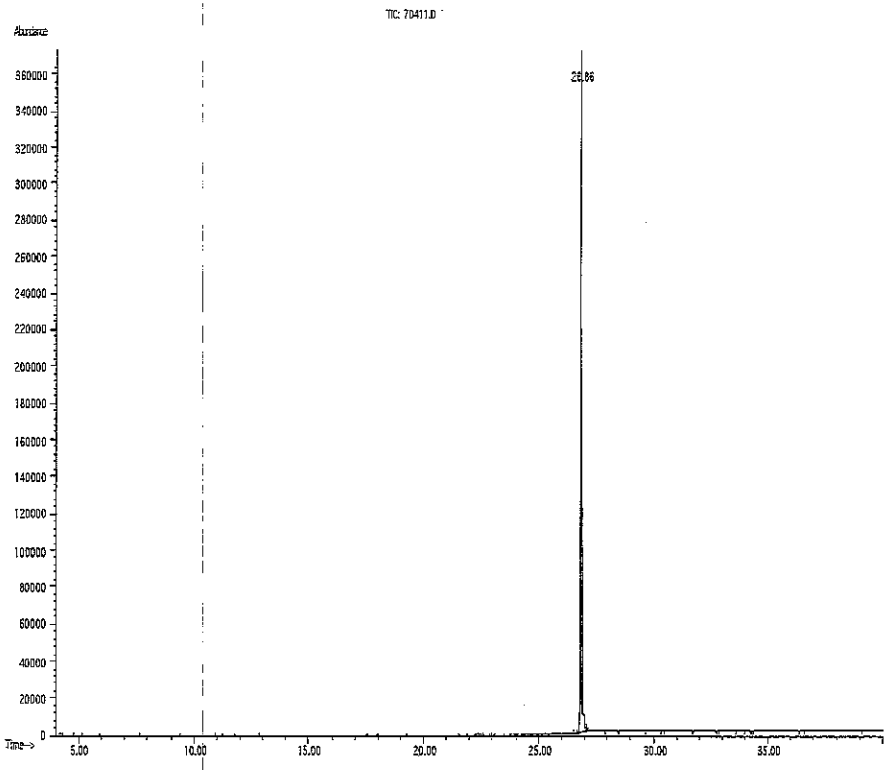
Weight(s) shown below were combined and diluted to (mL): 25.0 (5E-05 Balance Uncertainty, 0.001 Flask Uncertainty)

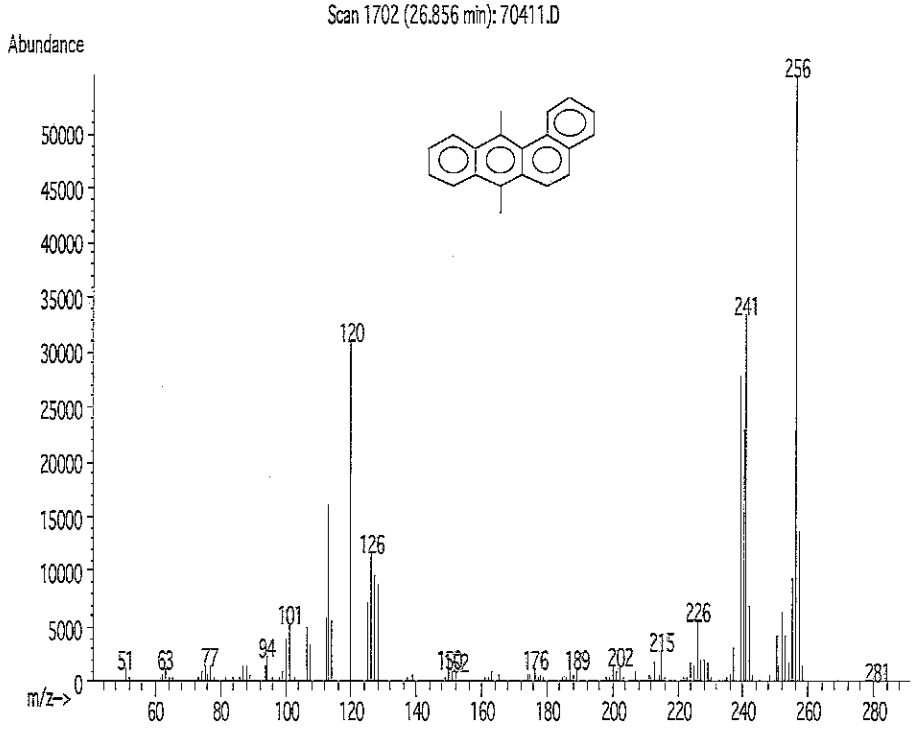
Formulated By:	Paul Barron	040915 DATE
Reviewed By:	Pedro L. Rentas	040915 DATE

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

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

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700936
700935

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Reference Material Producer
Certificate #3222.01

ilac-MRA

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ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

Certificate of Analysis

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

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

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)

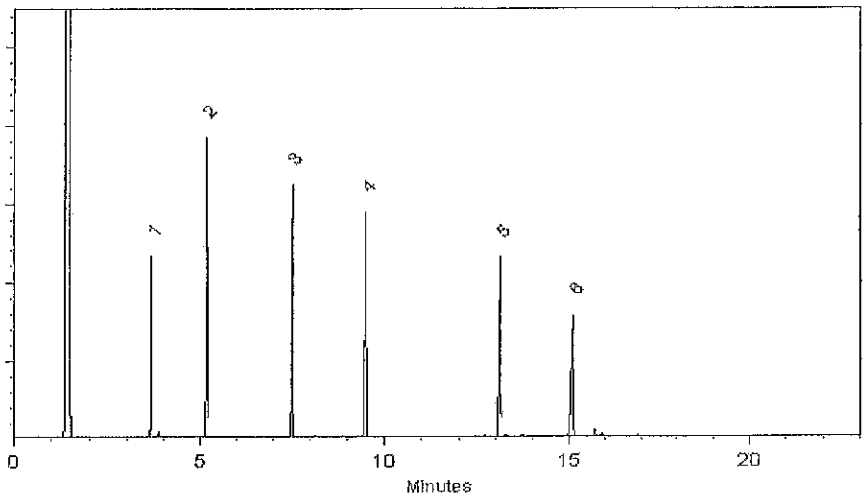
Carrier Gas:
hydrogen-constant pressure 10 psi.

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

RESTEK

110 Benner Circle
Bellefonte, PA 16823-8812
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Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

Certificate of Analysis

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

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

Catalog No. : 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)

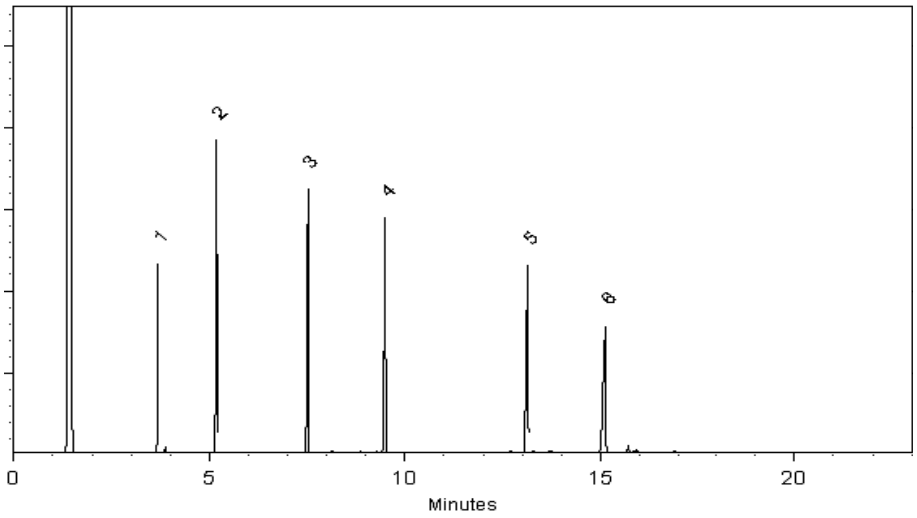
Carrier Gas:
hydrogen-constant pressure 10 psi.

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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Bellefonte, PA 16823-8812
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ISO Guide 34 Accredited
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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)

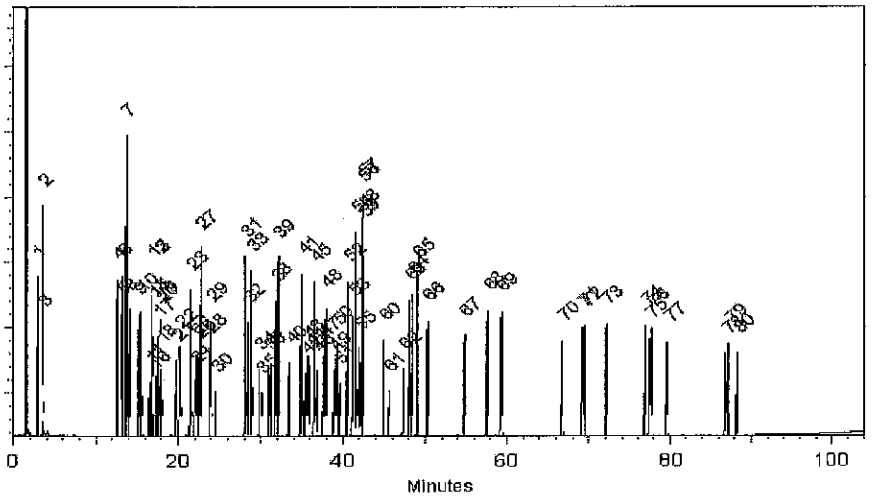
Carrier Gas:
hydrogen-constant pressure 10 psi

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

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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)

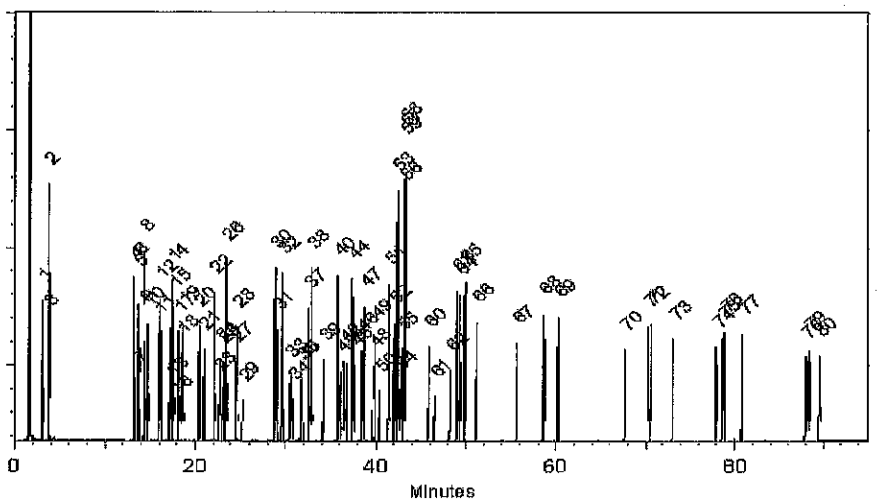
Carrier Gas:
hydrogen-constant pressure 10 psi

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

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Reagent

SVLVstd10_00001

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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. : 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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Scopes: http://AbsoluteStandards.com

CERTIFIED WEIGHT REPORT

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

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

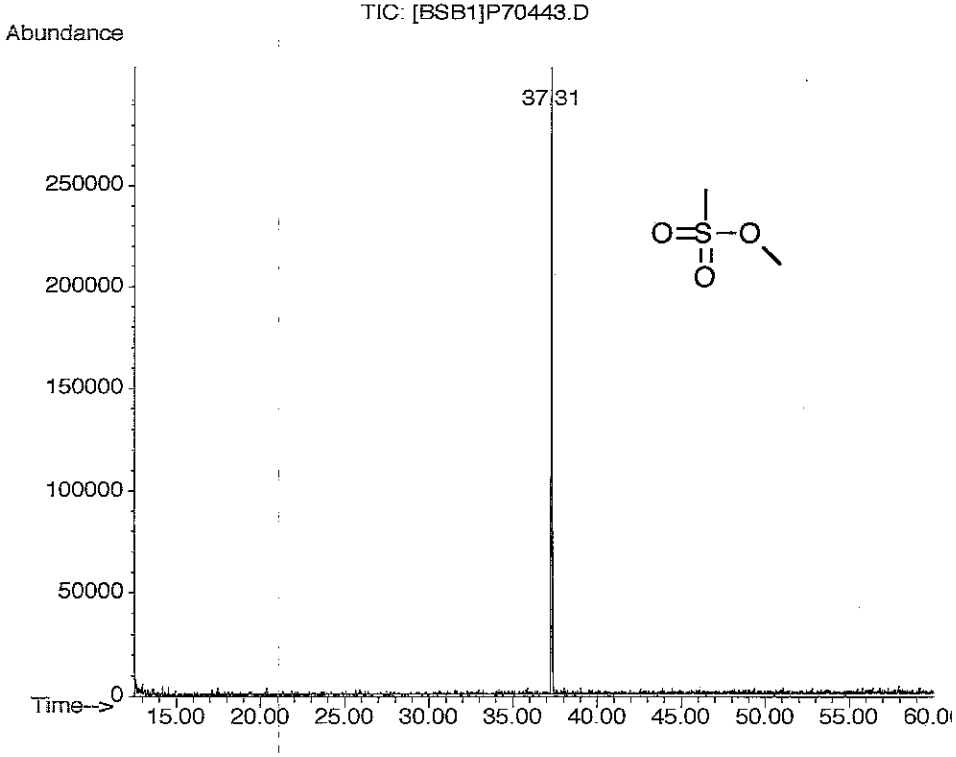
Paul Barron 021315
Formulated By: Paul Barron DATE

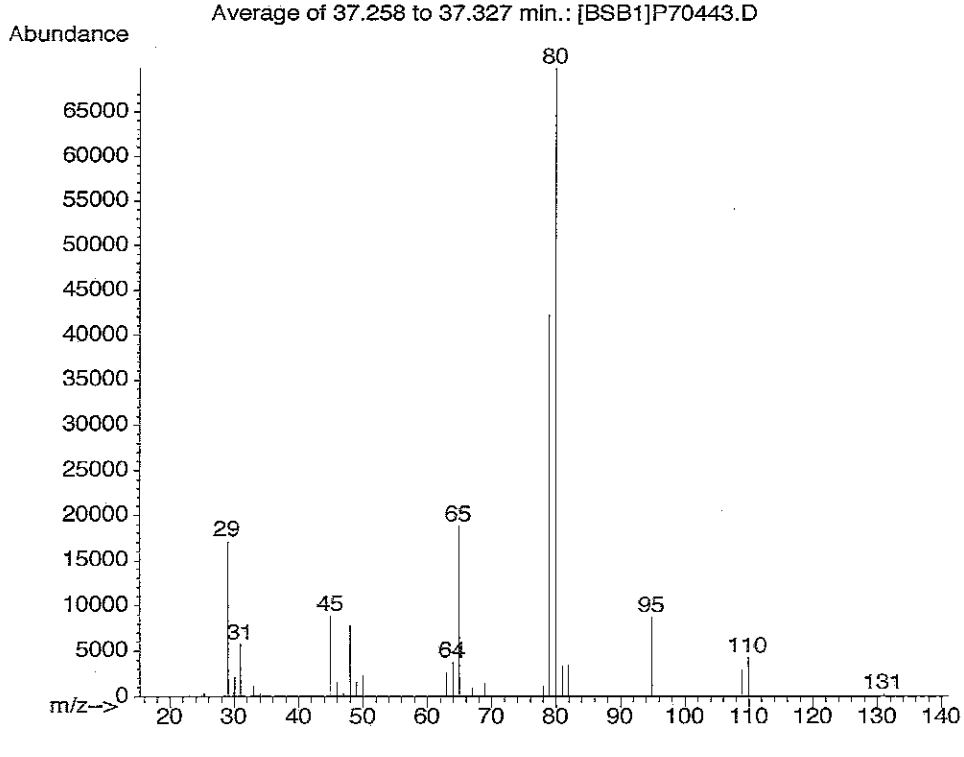
Pedro Rentas 021315
Reviewed By: Pedro L. Rentas DATE

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 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

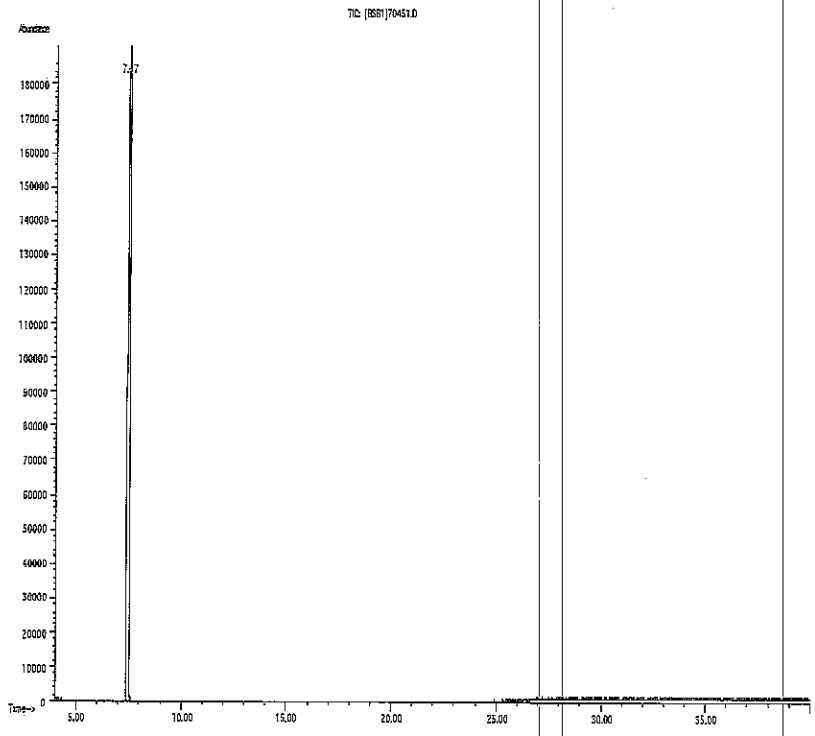
Formulated By: Paul Barron 060514 DATE

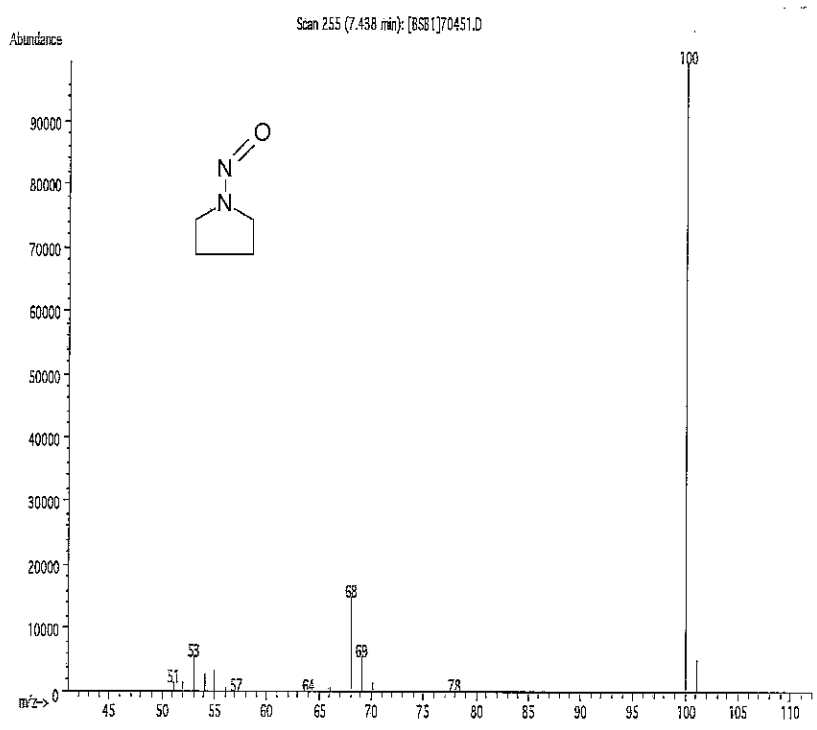
Reviewed By: Pedro L. Rentas 060514 DATE

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

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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)

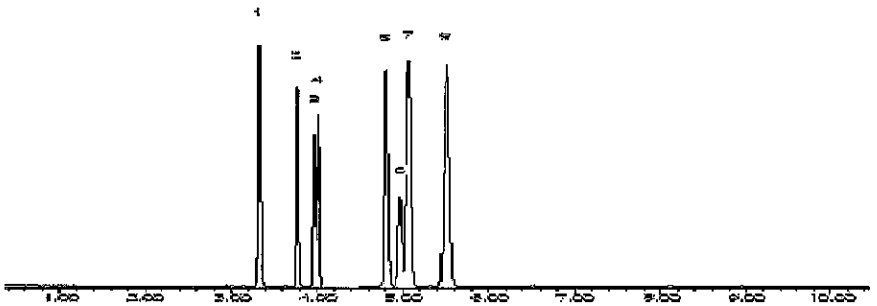
Carrier Gas:
helium-constant flow 2.0 mL/min.

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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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)

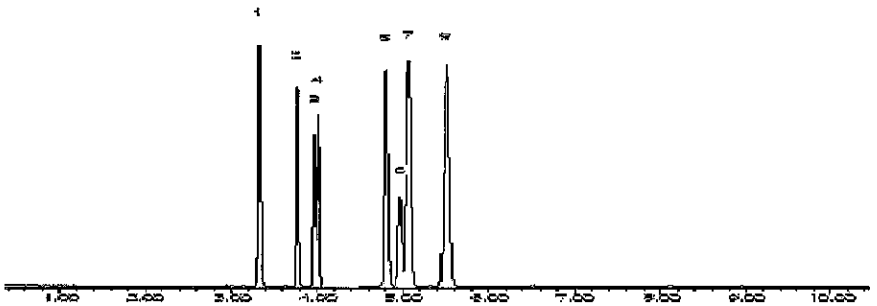
Carrier Gas:
helium-constant flow 2.0 mL/min.

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

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



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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

VOA8260GAS2ND_00116

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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

VOA8260INTRES_00088

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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

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Catalog No. : 568718 **Lot No.:** A0110961

Description : 8260 Internal Standard 2014

8260 Internal Standard 2014 250-5,000 ug/ml, P&T Methanol, 5 ml/ampul

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

Expiration Date : May 31, 2020 **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 **Purity** 99%	(Lot I201P13)	5,001.6 µg/mL	+/- 29.0797 µg/mL +/- 106.0709 µg/mL +/- 106.5415 µg/mL	Gravimetric Unstressed Stressed
2	2-Butanone-d5 **CAS #** 24313-50-6 **Purity** 99%	(Lot M276P20)	1,250.0 µg/mL	+/- 7.2844 µg/mL +/- 26.5138 µg/mL +/- 26.6314 µg/mL	Gravimetric Unstressed Stressed
3	Fluorobenzene **CAS #** 462-06-6 **Purity** 99%	(Lot 1380033)	250.4 µg/mL	+/- 1.4771 µg/mL +/- 5.3162 µg/mL +/- 5.3397 µg/mL	Gravimetric Unstressed Stressed
4	1,4-Dioxane-d8 **CAS #** 17647-74-4 **Purity** 99%	(Lot 1-19073)	5,000.4 µg/mL	+/- 29.0728 µg/mL +/- 106.0454 µg/mL +/- 106.5159 µg/mL	Gravimetric Unstressed Stressed
5	Chlorobenzene-d5 **CAS #** 3114-55-4 **Purity** 99%	(Lot PR-23926)	250.6 µg/mL	+/- 1.4783 µg/mL +/- 5.3205 µg/mL +/- 5.3440 µg/mL	Gravimetric Unstressed Stressed
6	1,4-Dichlorobenzene-d4 **CAS #** 3855-82-1 **Purity** 99%	(Lot PR-18488)	250.6 µg/mL	+/- 1.4783 µg/mL +/- 5.3205 µg/mL +/- 5.3440 µg/mL	Gravimetric Unstressed Stressed

Reagent

VOA8260KET1ST_00048

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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

VOA8260KET1ST_00049

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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

VOA8260KET2ND_00054

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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_00032

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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)

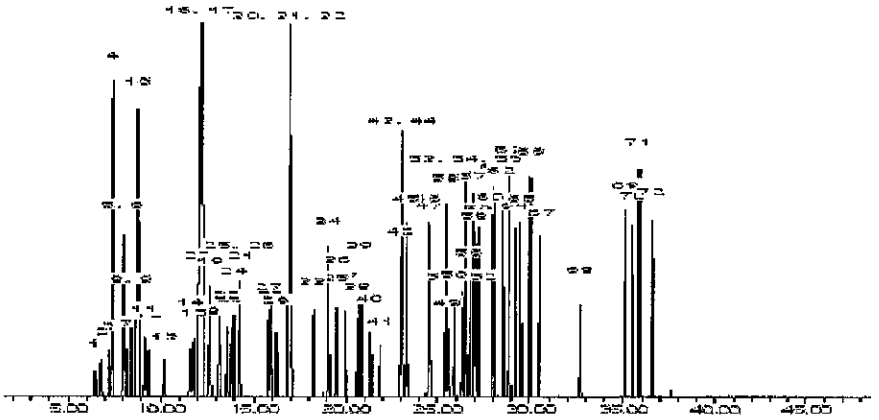
Carrier Gas:
helium-constant pressure 30 psi

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

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)

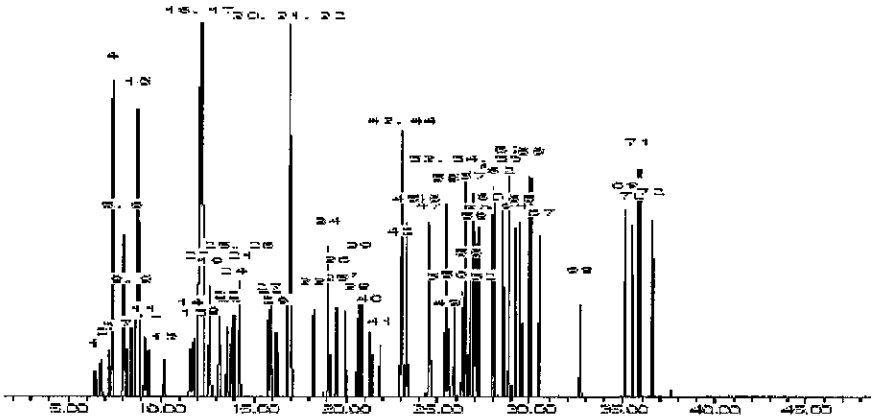
Carrier Gas:
helium-constant pressure 30 psi

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

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
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)

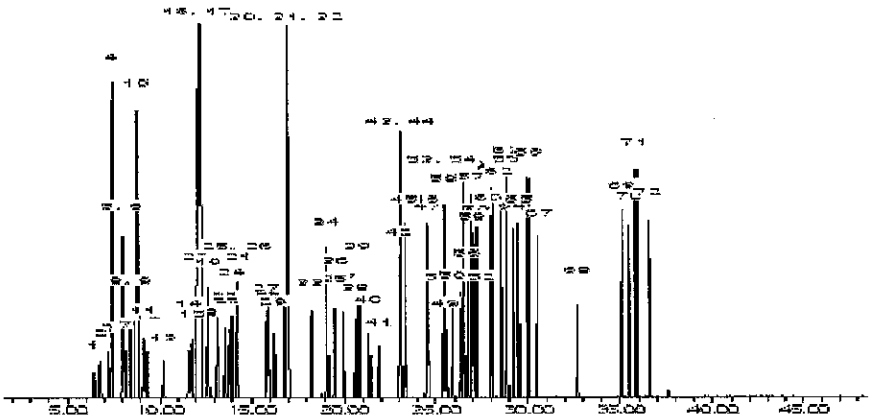
Carrier Gas:
helium-constant pressure 30 psi

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

Reagent

VOA8260SURRES_00067

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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_00081

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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. : 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		2,509.6 µg/mL	+/- 14.5910	µg/mL	Gravimetric
	CAS # 1868-53-7	(Lot 022012)		+/- 28.2993	µg/mL	Unstressed
	Purity 99%			+/- 32.5644	µg/mL	Stressed
2	1,2-Dichloroethane-d4		2,508.2 µg/mL	+/- 14.5829	µg/mL	Gravimetric
	CAS # 17060-07-0	(Lot 12K-027)		+/- 28.2836	µg/mL	Unstressed
	Purity 99%			+/- 32.5462	µg/mL	Stressed
3	Toluene-d8		2,508.8 µg/mL	+/- 14.5864	µg/mL	Gravimetric
	CAS # 2037-26-5	(Lot 13I-050)		+/- 28.2903	µg/mL	Unstressed
	Purity 99%			+/- 32.5540	µg/mL	Stressed
4	1-Bromo-4-fluorobenzene (BFB)		2,509.8 µg/mL	+/- 14.5922	µg/mL	Gravimetric
	CAS # 460-00-4	(Lot 01127COV)		+/- 28.3016	µg/mL	Unstressed
	Purity 99%			+/- 32.5670	µg/mL	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

VOAACRORES_00077

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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. : 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

VOARESEE1ST_00021

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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%

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.: 180-48435-1

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-CW-9-0/1-0	180-48435-1	100	108	104	93
HD-CW-9-0/1-0 DL	180-48435-1 DL	93	103	106	93
HD-CW-13-0/1-0	180-48435-2	93	103	105	94
HD-CW-15A-0/1-0	180-48435-3	93	100	104	94
HD-CW-17-0/1-0	180-48435-4	98	105	106	92
HD-CW-20-0/1-0	180-48435-5	92	106	104	87
HD-QC-5-0/1-2	180-48435-6	98	105	109	90
	MB 180-157127/6	93	101	103	95
	MB 180-157249/12	92	100	97	88
	MB 180-157327/5	85	88	97	85
	LCS 180-157127/10	87	99	112	104
	LCS 180-157249/15	86	96	104	93
	LCS 180-157327/12	94	97	113	108

	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.: 180-48435-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 51015010.D

Lab ID: LCS 180-157127/10 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Chloromethane	10.0	9.71	97	50-139	
Vinyl chloride	10.0	8.06	81	53-138	
Bromomethane	10.0	8.03	80	33-150	
Chloroethane	10.0	7.31	73	36-142	
1,1-Dichloroethene	10.0	9.39	94	65-136	
Acetone	20.0	19.9	99	22-150	
Carbon disulfide	10.0	10.0	100	54-132	
Methylene Chloride	10.0	9.92	99	63-129	
trans-1,2-Dichloroethene	10.0	9.68	97	73-126	
Methyl tert-butyl ether	10.0	9.53	95	64-123	
1,1-Dichloroethane	10.0	9.61	96	73-126	
cis-1,2-Dichloroethene	10.0	9.55	96	70-120	
Bromochloromethane	10.0	8.75	88	70-127	
2-Butanone (MEK)	20.0	19.4	97	39-138	
Chloroform	10.0	9.41	94	72-127	
1,1,1-Trichloroethane	10.0	9.64	96	63-133	
Carbon tetrachloride	10.0	9.66	97	55-150	
Benzene	10.0	10.2	102	80-120	
1,2-Dichloroethane	10.0	9.87	99	68-132	
Trichloroethene	10.0	9.16	92	73-120	
1,2-Dichloropropane	10.0	9.92	99	76-124	
Bromodichloromethane	10.0	9.80	98	66-130	
cis-1,3-Dichloropropene	10.0	8.94	89	66-120	
4-Methyl-2-pentanone (MIBK)	20.0	18.6	93	45-145	
Toluene	10.0	11.0	110	80-123	
trans-1,3-Dichloropropene	10.0	9.97	100	65-125	
1,1,2-Trichloroethane	10.0	10.7	107	77-127	
Tetrachloroethene	10.0	10.8	108	70-135	
2-Hexanone	20.0	18.1	90	25-132	
Dibromochloromethane	10.0	9.40	94	60-140	
1,2-Dibromoethane (EDB)	10.0	10.2	102	74-123	
Chlorobenzene	10.0	10.3	103	80-120	
1,1,1,2-Tetrachloroethane	10.0	9.76	98	63-140	
Ethylbenzene	10.0	10.7	107	72-126	
Xylenes, Total	20.0	21.4	107	76-128	
Styrene	10.0	11.4	114	71-127	
Bromoform	10.0	10.7	107	46-150	
1,1,2,2-Tetrachloroethane	10.0	11.7	117	62-125	
Acrylonitrile	100	112	112	30-140	
1,4-Dioxane	200	287	144	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.: 180-48435-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 51016015.D

Lab ID: LCS 180-157249/15 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Chloromethane	10.0	8.57	86	50-139	
Vinyl chloride	10.0	7.45	74	53-138	
Bromomethane	10.0	7.06	71	33-150	
Chloroethane	10.0	6.01	60	36-142	
1,1-Dichloroethene	10.0	8.72	87	65-136	
Acetone	20.0	17.6	88	22-150	
Carbon disulfide	10.0	8.81	88	54-132	
Methylene Chloride	10.0	9.36	94	63-129	
trans-1,2-Dichloroethene	10.0	9.47	95	73-126	
Methyl tert-butyl ether	10.0	9.11	91	64-123	
1,1-Dichloroethane	10.0	9.31	93	73-126	
cis-1,2-Dichloroethene	10.0	9.52	95	70-120	
Bromochloromethane	10.0	8.80	88	70-127	
2-Butanone (MEK)	20.0	21.2	106	39-138	
Chloroform	10.0	9.50	95	72-127	
1,1,1-Trichloroethane	10.0	8.99	90	63-133	
Carbon tetrachloride	10.0	8.67	87	55-150	
Benzene	10.0	9.87	99	80-120	
1,2-Dichloroethane	10.0	10.0	100	68-132	
Trichloroethene	10.0	8.75	87	73-120	
1,2-Dichloropropane	10.0	9.75	98	76-124	
Bromodichloromethane	10.0	9.55	96	66-130	
cis-1,3-Dichloropropene	10.0	9.38	94	66-120	
4-Methyl-2-pentanone (MIBK)	20.0	19.0	95	45-145	
Toluene	10.0	10.8	108	80-123	
trans-1,3-Dichloropropene	10.0	10.1	101	65-125	
1,1,2-Trichloroethane	10.0	10.7	107	77-127	
Tetrachloroethene	10.0	10.4	104	70-135	
2-Hexanone	20.0	19.1	96	25-132	
Dibromochloromethane	10.0	9.86	99	60-140	
1,2-Dibromoethane (EDB)	10.0	11.0	110	74-123	
Chlorobenzene	10.0	9.83	98	80-120	
1,1,1,2-Tetrachloroethane	10.0	9.68	97	63-140	
Ethylbenzene	10.0	10.1	101	72-126	
Xylenes, Total	20.0	20.2	101	76-128	
Styrene	10.0	10.8	108	71-127	
Bromoform	10.0	10.4	104	46-150	
1,1,2,2-Tetrachloroethane	10.0	10.4	104	62-125	
Acrylonitrile	100	94.5	94	30-140	
1,4-Dioxane	200	187 J	93	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.: 180-48435-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 51017012.D

Lab ID: LCS 180-157327/12 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Chloromethane	10.0	8.88	89	50-139	
Vinyl chloride	10.0	7.83	78	53-138	
Bromomethane	10.0	6.75	67	33-150	
Chloroethane	10.0	6.25	63	36-142	
1,1-Dichloroethene	10.0	9.63	96	65-136	
Acetone	20.0	17.7	88	22-150	
Carbon disulfide	10.0	10.5	105	54-132	
Methylene Chloride	10.0	10.5	105	63-129	
trans-1,2-Dichloroethene	10.0	9.55	96	73-126	
Methyl tert-butyl ether	10.0	10.1	101	64-123	
1,1-Dichloroethane	10.0	10.1	101	73-126	
cis-1,2-Dichloroethene	10.0	9.52	95	70-120	
Bromochloromethane	10.0	9.37	94	70-127	
2-Butanone (MEK)	20.0	18.7	93	39-138	
Chloroform	10.0	9.78	98	72-127	
1,1,1-Trichloroethane	10.0	9.47	95	63-133	
Carbon tetrachloride	10.0	9.32	93	55-150	
Benzene	10.0	9.79	98	80-120	
1,2-Dichloroethane	10.0	10.1	101	68-132	
Trichloroethene	10.0	8.86	89	73-120	
1,2-Dichloropropane	10.0	9.57	96	76-124	
Bromodichloromethane	10.0	9.99	100	66-130	
cis-1,3-Dichloropropene	10.0	8.63	86	66-120	
4-Methyl-2-pentanone (MIBK)	20.0	22.6	113	45-145	
Toluene	10.0	11.5	115	80-123	
trans-1,3-Dichloropropene	10.0	10.5	105	65-125	
1,1,2-Trichloroethane	10.0	10.4	104	77-127	
Tetrachloroethene	10.0	11.2	112	70-135	
2-Hexanone	20.0	20.3	102	25-132	
Dibromochloromethane	10.0	9.90	99	60-140	
1,2-Dibromoethane (EDB)	10.0	10.9	109	74-123	
Chlorobenzene	10.0	10.5	105	80-120	
1,1,1,2-Tetrachloroethane	10.0	11.0	110	63-140	
Ethylbenzene	10.0	11.0	110	72-126	
Xylenes, Total	20.0	22.0	110	76-128	
Styrene	10.0	11.5	115	71-127	
Bromoform	10.0	10.1	101	46-150	
1,1,2,2-Tetrachloroethane	10.0	11.7	117	62-125	
Acrylonitrile	100	102	102	30-140	
1,4-Dioxane	200	126 J	63	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.: 180-48435-1

SDG No.:

Lab File ID: 51015006.D Lab Sample ID: MB 180-157127/6

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

Instrument ID: CHHP5 Date Analyzed: 10/15/2015 14:08

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 180-157127/10	51015010.D	10/15/2015 15:59
HD-CW-13-0/1-0	180-48435-2	51015018.D	10/15/2015 19:12
HD-CW-15A-0/1-0	180-48435-3	51015019.D	10/15/2015 19:36
HD-CW-17-0/1-0	180-48435-4	51015021.D	10/15/2015 20:25
HD-CW-20-0/1-0	180-48435-5	51015022.D	10/15/2015 20:49
HD-QC-5-0/1-2	180-48435-6	51015023.D	10/15/2015 21:13

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48435-1

SDG No.:

Lab File ID: 51016012.D Lab Sample ID: MB 180-157249/12

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

Instrument ID: CHHP5 Date Analyzed: 10/16/2015 16:19

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 180-157249/15	51016015.D	10/16/2015 17:58
HD-CW-9-0/1-0 DL	180-48435-1 DL	51016019.D	10/16/2015 19:34

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48435-1

SDG No.:

Lab File ID: 51017005.D Lab Sample ID: MB 180-157327/5

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

Instrument ID: CHHP5 Date Analyzed: 10/17/2015 11:40

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 180-157327/12	51017012.D	10/17/2015 16:00
HD-CW-9-0/1-0	180-48435-1	51017024.D	10/17/2015 20:49

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-48435-1

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.: 180-48435-1

SDG No.:

Lab File ID: 51015004.D BFB Injection Date: 10/15/2015

Instrument ID: CHHP5 BFB Injection Time: 12:12

Analysis Batch No.: 157127

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	26.6	
75	30.0 - 60.0 % of mass 95	49.0	
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	0.2	(0.3)1
174	50.0 - 120.00 % of mass 95	75.8	
175	5.0 - 9.0 % of mass 174	6.6	(8.7)1
176	95.0 - 101.0 % of mass 174	75.0	(99.0)1
177	5.0 - 9.0 % of mass 176	5.2	(6.9)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 180-157127/2	51015002.D	10/15/2015	12:56
	MB 180-157127/6	51015006.D	10/15/2015	14:08
	LCS 180-157127/10	51015010.D	10/15/2015	15:59
HD-CW-13-0/1-0	180-48435-2	51015018.D	10/15/2015	19:12
HD-CW-15A-0/1-0	180-48435-3	51015019.D	10/15/2015	19:36
HD-CW-17-0/1-0	180-48435-4	51015021.D	10/15/2015	20:25
HD-CW-20-0/1-0	180-48435-5	51015022.D	10/15/2015	20:49
HD-QC-5-0/1-2	180-48435-6	51015023.D	10/15/2015	21:13

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-48435-1

SDG No.:

Lab File ID: 51016011.D BFB Injection Date: 10/16/2015

Instrument ID: CHHP5 BFB Injection Time: 14:25

Analysis Batch No.: 157249

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	24.5	
75	30.0 - 60.0 % of mass 95	49.4	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.2	
173	Less than 2.0 % of mass 174	1.0	(1.4)1
174	50.0 - 120.00 % of mass 95	72.3	
175	5.0 - 9.0 % of mass 174	5.4	(7.5)1
176	95.0 - 101.0 % of mass 174	71.5	(98.8)1
177	5.0 - 9.0 % of mass 176	3.6	(5.1)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 180-157249/4	51016004.D	10/16/2015	15:06
	CCV 180-157249/5	51016005.D	10/16/2015	15:30
	MB 180-157249/12	51016012.D	10/16/2015	16:19
	LCS 180-157249/15	51016015.D	10/16/2015	17:58
HD-CW-9-0/1-0 DL	180-48435-1 DL	51016019.D	10/16/2015	19:34

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

Lab Name: TestAmerica Pittsburgh Job No.: 180-48435-1

SDG No.:

Lab File ID: 51017001.D BFB Injection Date: 10/17/2015

Instrument ID: CHHP5 BFB Injection Time: 09:32

Analysis Batch No.: 157327

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	26.9	
75	30.0 - 60.0 % of mass 95	51.2	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.2	
173	Less than 2.0 % of mass 174	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	77.2	
175	5.0 - 9.0 % of mass 174	5.9	(7.6)1
176	95.0 - 101.0 % of mass 174	74.6	(96.6)1
177	5.0 - 9.0 % of mass 176	5.0	(6.6)2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 180-157327/2	51017002.D	10/17/2015	10:09
	CCV 180-157327/3	51017003.D	10/17/2015	10:52
	MB 180-157327/5	51017005.D	10/17/2015	11:40
	LCS 180-157327/12	51017012.D	10/17/2015	16:00
HD-CW-9-0/1-0	180-48435-1	51017024.D	10/17/2015	20:49

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48435-1

SDG No.:

Sample No.: CCVIS 180-157127/2 Date Analyzed: 10/15/2015 12:56

Instrument ID: CHHP5 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): 51015002.D Heated Purge: (Y/N) N

Calibration ID: 25113

		TBA		FB		CBZ	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		155406	4.27	379251	7.29	82633	10.39
UPPER LIMIT		310812	4.77	758502	7.79	165266	10.89
LOWER LIMIT		77703	3.77	189626	6.79	41317	9.89
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 180-157127/6		166634	4.27	345393	7.29	77841	10.39
LCS 180-157127/10		156359	4.28	369647	7.29	81657	10.39
180-48435-2	HD-CW-13-0/1-0	128784	4.27	321198	7.29	70930	10.39
180-48435-3	HD-CW-15A-0/1-0	144886	4.27	331370	7.29	74092	10.39
180-48435-4	HD-CW-17-0/1-0	138763	4.27	318099	7.30	71140	10.39
180-48435-5	HD-CW-20-0/1-0	139833	4.27	325058	7.29	73804	10.39
180-48435-6	HD-QC-5-0/1-2	140694	4.27	306214	7.29	67323	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.: 180-48435-1

SDG No.:

Sample No.: CCVIS 180-157127/2 Date Analyzed: 10/15/2015 12:56

Instrument ID: CHHP5 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): 51015002.D Heated Purge: (Y/N) N

Calibration ID: 25113

		DCB					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		127710	12.74				
UPPER LIMIT		255420	13.24				
LOWER LIMIT		63855	12.24				
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 180-157127/6		106606	12.73				
LCS 180-157127/10		128850	12.73				
180-48435-2	HD-CW-13-0/1-0	94226	12.73				
180-48435-3	HD-CW-15A-0/1-0	97953	12.74				
180-48435-4	HD-CW-17-0/1-0	93755	12.74				
180-48435-5	HD-CW-20-0/1-0	94555	12.73				
180-48435-6	HD-QC-5-0/1-2	94451	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.: 180-48435-1

SDG No.:

Sample No.: CCVIS 180-157249/4 Date Analyzed: 10/16/2015 15:06

Instrument ID: CHHP5 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): 51016004.D Heated Purge: (Y/N) N

Calibration ID: 25113

		TBA		FB		CBZ	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		130084	4.26	469261	7.29	102658	10.39
UPPER LIMIT		260168	4.76	938522	7.79	205316	10.89
LOWER LIMIT		65042	3.76	234631	6.79	51329	9.89
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCV 180-157249/5		136973	4.27	425237	7.29	94694	10.39
MB 180-157249/12		95470	4.27	400795	7.29	94373	10.39
LCS 180-157249/15		107445	4.27	406759	7.29	91211	10.39
180-48435-1 DL	HD-CW-9-0/1-0 DL	94649	4.27	371418	7.29	80789	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.: 180-48435-1

SDG No.:

Sample No.: CCVIS 180-157249/4 Date Analyzed: 10/16/2015 15:06

Instrument ID: CHHP5 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): 51016004.D Heated Purge: (Y/N) N

Calibration ID: 25113

		DCB					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		146674	12.73				
UPPER LIMIT		293348	13.23				
LOWER LIMIT		73337	12.23				
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCV 180-157249/5		113554	12.73				
MB 180-157249/12		120395	12.73				
LCS 180-157249/15		128169	12.73				
180-48435-1 DL	HD-CW-9-0/1-0 DL	115187	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.: 180-48435-1

SDG No.:

Sample No.: CCVIS 180-157327/2 Date Analyzed: 10/17/2015 10:09

Instrument ID: CHHP5 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): 51017002.D Heated Purge: (Y/N) N

Calibration ID: 25113

		TBA		FB		CBZ	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		122820	4.26	461537	7.29	100060	10.39
UPPER LIMIT		245640	4.76	923074	7.79	200120	10.89
LOWER LIMIT		61410	3.76	230769	6.79	50030	9.89
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCV 180-157327/3		79651	4.27	463569	7.29	100189	10.39
MB 180-157327/5		96893	4.27	510411	7.29	110695	10.39
LCS 180-157327/12		94965	4.28	367634	7.29	78305	10.39
180-48435-1	HD-CW-9-0/1-0	102165	4.26	358010	7.29	80162	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.: 180-48435-1

SDG No.:

Sample No.: CCVIS 180-157327/2 Date Analyzed: 10/17/2015 10:09

Instrument ID: CHHP5 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): 51017002.D Heated Purge: (Y/N) N

Calibration ID: 25113

		DCB					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		131704	12.73				
UPPER LIMIT		263408	13.23				
LOWER LIMIT		65852	12.23				
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCV 180-157327/3		124173	12.73				
MB 180-157327/5		139550	12.73				
LCS 180-157327/12		126056	12.73				
180-48435-1	HD-CW-9-0/1-0	111600	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 I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-48435-1

SDG No.:

Client Sample ID: HD-CW-9-0/1-0 | Lab Sample ID: 180-48435-1

Matrix: Water | Lab File ID: 51017024.D

Analysis Method: 8260C | Date Collected: 10/05/2015 06:20

Sample wt/vol: 5(mL) | Date Analyzed: 10/17/2015 20:49

Soil Aliquot Vol: | Dilution Factor: 2

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 157327 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	ND		2.0	0.57
75-01-4	Vinyl chloride	ND		2.0	0.45
74-83-9	Bromomethane	ND		2.0	0.63
75-00-3	Chloroethane	ND		2.0	0.43
75-35-4	1,1-Dichloroethene	4.5		2.0	0.59
67-64-1	Acetone	ND	^c	10	5.0
75-15-0	Carbon disulfide	ND		2.0	0.42
75-09-2	Methylene Chloride	ND		2.0	0.25
156-60-5	trans-1,2-Dichloroethene	ND		2.0	0.34
1634-04-4	Methyl tert-butyl ether	ND		2.0	0.37
75-34-3	1,1-Dichloroethane	4.0		2.0	0.23
156-59-2	cis-1,2-Dichloroethene	80		2.0	0.47
74-97-5	Bromochloromethane	ND	^c	2.0	0.36
78-93-3	2-Butanone (MEK)	ND		10	1.1
67-66-3	Chloroform	0.39	J	2.0	0.34
71-55-6	1,1,1-Trichloroethane	21		2.0	0.57
56-23-5	Carbon tetrachloride	ND		2.0	0.27
71-43-2	Benzene	ND		2.0	0.21
107-06-2	1,2-Dichloroethane	ND		2.0	0.42
79-01-6	Trichloroethene	74		2.0	0.29
78-87-5	1,2-Dichloropropane	ND		2.0	0.19
75-27-4	Bromodichloromethane	ND		2.0	0.26
10061-01-5	cis-1,3-Dichloropropene	ND		2.0	0.37
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		10	1.1
108-88-3	Toluene	ND		2.0	0.30
10061-02-6	trans-1,3-Dichloropropene	ND		2.0	0.30
79-00-5	1,1,2-Trichloroethane	ND		2.0	0.40
127-18-4	*Tetrachloroethene*	*360*	*E*	*2.0*	*0.30*
591-78-6	2-Hexanone	ND		10	0.32
124-48-1	Dibromochloromethane	ND		2.0	0.27
106-93-4	1,2-Dibromoethane (EDB)	ND		2.0	0.36
108-90-7	Chlorobenzene	ND		2.0	0.27
630-20-6	1,1,1,2-Tetrachloroethane	ND		2.0	0.55
100-41-4	Ethylbenzene	ND		2.0	0.45
1330-20-7	Xylenes, Total	ND		6.0	0.98
100-42-5	Styrene	ND		2.0	0.19

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-48435-1

SDG No.:

Client Sample ID: HD-CW-9-0/1-0 | Lab Sample ID: 180-48435-1

Matrix: Water | Lab File ID: 51017024.D

Analysis Method: 8260C | Date Collected: 10/05/2015 06:20

Sample wt/vol: 5(mL) | Date Analyzed: 10/17/2015 20:49

Soil Aliquot Vol: | Dilution Factor: 2

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 157327 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-25-2	Bromoform	ND		2.0	0.38
79-34-5	1,1,2,2-Tetrachloroethane	ND		2.0	0.40
107-13-1	Acrylonitrile	ND		40	1.1
123-91-1	1,4-Dioxane	ND		400	69

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	108		64-135
2037-26-5	Toluene-d8 (Surr)	104		71-118
460-00-4	4-Bromofluorobenzene (Surr)	93		70-118
1868-53-7	Dibromofluoromethane (Surr)	100		70-128

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151017-9055.b\51017024.D
Lims ID: 180-48435-B-1 Lab Sample ID: 180-48435-1
Client ID: HD-CW-9-0/1-0
Sample Type: Client
Inject. Date: 17-Oct-2015 20:49:30 ALS Bottle#: 14 Worklist Smp#: 24
Purge Vol: 5.000 mL Dil. Factor: 2.0000
Sample Info: 180-48435-B-1, 2x
Misc. Info.: 180-0009055-024
Operator ID: 034635 Instrument ID: CHHP5

Method: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151017-9055.b\MSVOA_LL_CHHP5.m
Limit Group: VOA 8260C ICAL
Last Update: 18-Oct-2015 08:49:37 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: XAWRK017

First Level Reviewer: fergusond Date: 18-Oct-2015 08:49:37

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.259	4.260	-0.001	0	102165	1000.0	
* 2 Fluorobenzene (IS)	96	7.289	7.289	0.000	97	358010	50.0	
* 3 Chlorobenzene-d5	119	10.385	10.392	-0.007	91	80162	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.733	12.734	-0.001	97	111600	50.0	
$ 5 Dibromofluoromethane (Surr	113	6.559	6.559	0.000	68	88323	50.2	
$ 6 1,2-Dichloroethane-d4 (Sur	65	6.936	6.936	0.000	0	130274	53.9	
$ 7 Toluene-d8 (Surr)	98	8.937	8.938	-0.001	95	321766	52.0	
$ 8 4-Bromofluorobenzene (Surr	95	11.572	11.572	0.000	89	108693	46.6	
12 Chloromethane	50		1.766				ND	
13 Vinyl chloride	62		1.893				ND	
15 Bromomethane	94		2.246				ND	
16 Chloroethane	64		2.386				ND	
22 1,1-Dichloroethene	96	3.353	3.347	0.006	90	22553	11.3	
24 Acetone	43	3.432	3.432	0.000	31	4419	6.12	
26 Carbon disulfide	76		3.627				ND	
31 Methylene Chloride	84		4.132				ND	
33 Acrylonitrile	53		4.515				ND	
34 trans-1,2-Dichloroethene	96	4.588	4.564	0.024	1	1529	0.7063	
35 Methyl tert-butyl ether	73		4.570				ND	
37 1,1-Dichloroethane	63	5.202	5.203	-0.001	96	43139	10.1	
45 cis-1,2-Dichloroethene	96	5.950	5.951	-0.001	85	462306	199.9	
46 2-Butanone (MEK)	43		5.957				ND	
49 Chlorobromomethane	128		6.237				ND	
52 Chloroform	83	6.382	6.383	-0.001	23	3638	0.9873	
53 1,1,1-Trichloroethane	97	6.547	6.541	0.006	94	142561	52.3	
56 Carbon tetrachloride	117		6.717				ND	
58 Benzene	78		6.943				ND	
59 1,2-Dichloroethane	62		7.022				ND	
64 Trichloroethene	130	7.678	7.679	-0.001	95	396917	183.8	
67 1,2-Dichloropropane	63		7.952				ND	
70 1,4-Dioxane	88		8.031				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
71 Dichlorobromomethane	83		8.226				ND	
74 cis-1,3-Dichloropropene	75		8.676				ND	
75 4-Methyl-2-pentanone (MIBK	43		8.828				ND	
76 Toluene	91		9.005				ND	
77 trans-1,3-Dichloropropene	75		9.248				ND	
79 1,1,2-Trichloroethane	97		9.449				ND	
80 Tetrachloroethene	164	9.515	9.516	-0.001	94	1391848	903.5	E
82 2-Hexanone	43		9.656				ND	
84 Chlorodibromomethane	129		9.814				ND	
85 Ethylene Dibromide	107		9.930				ND	
87 Chlorobenzene	112	10.416	10.416	0.000	22	2247	0.4397	
89 1,1,1,2-Tetrachloroethane	131		10.507				ND	
90 Ethylbenzene	106		10.520				ND	
91 m-Xylene & p-Xylene	106		10.647				ND	
92 o-Xylene	106		11.031				ND	
93 Styrene	104		11.049				ND	
94 Bromoform	173		11.231				ND	
99 1,1,2,2-Tetrachloroethane	83		11.712				ND	
S 133 Xylenes, Total	106		1.000				ND	

QC Flag Legend

Processing Flags

E - Exceeded Maximum Amount

Reagents:

VOA8260INT_00043	Amount Added:	2.00	Units: uL	Run Reagent
VOA8260SURR_00043	Amount Added:	2.00	Units: uL	Run Reagent

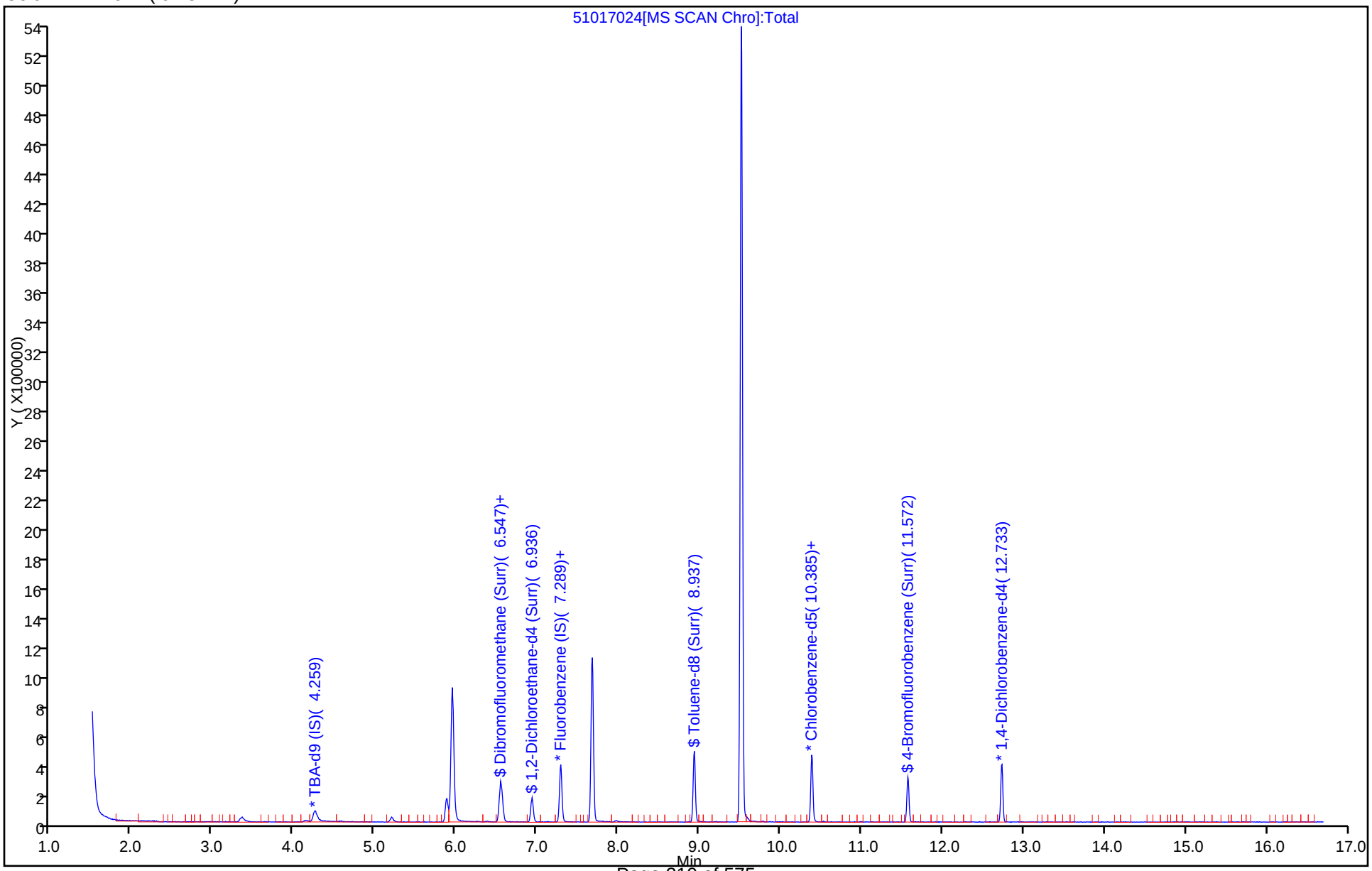
Report Date: 18-Oct-2015 08:49:37 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151017-9055.b\51017024.D

Injection Date:	17-Oct-2015 20:49:30	Instrument ID:	CHHP5	Operator ID:	034635
Lims ID:	180-48435-B-1	Lab Sample ID:	180-48435-1	Worklist Smp#:	24
Client ID:	HD-CW-9-0/1-0				
Purge Vol:	5.000 mL	Dil. Factor:	2.0000	ALS Bottle#:	14
Method:	MSVOA_LL_CHHP5	Limit Group:	VOA 8260C ICAL		

Column: DB-624 (0.18 mm)



Report Date: 18-Oct-2015 08:49:38 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151017-9055.b\51017024.D

Injection Date: 17-Oct-2015 20:49:30 Instrument ID: CHHP5

Lims ID: 180-48435-B-1 Lab Sample ID: 180-48435-1

Client ID: HD-CW-9-0/1-0

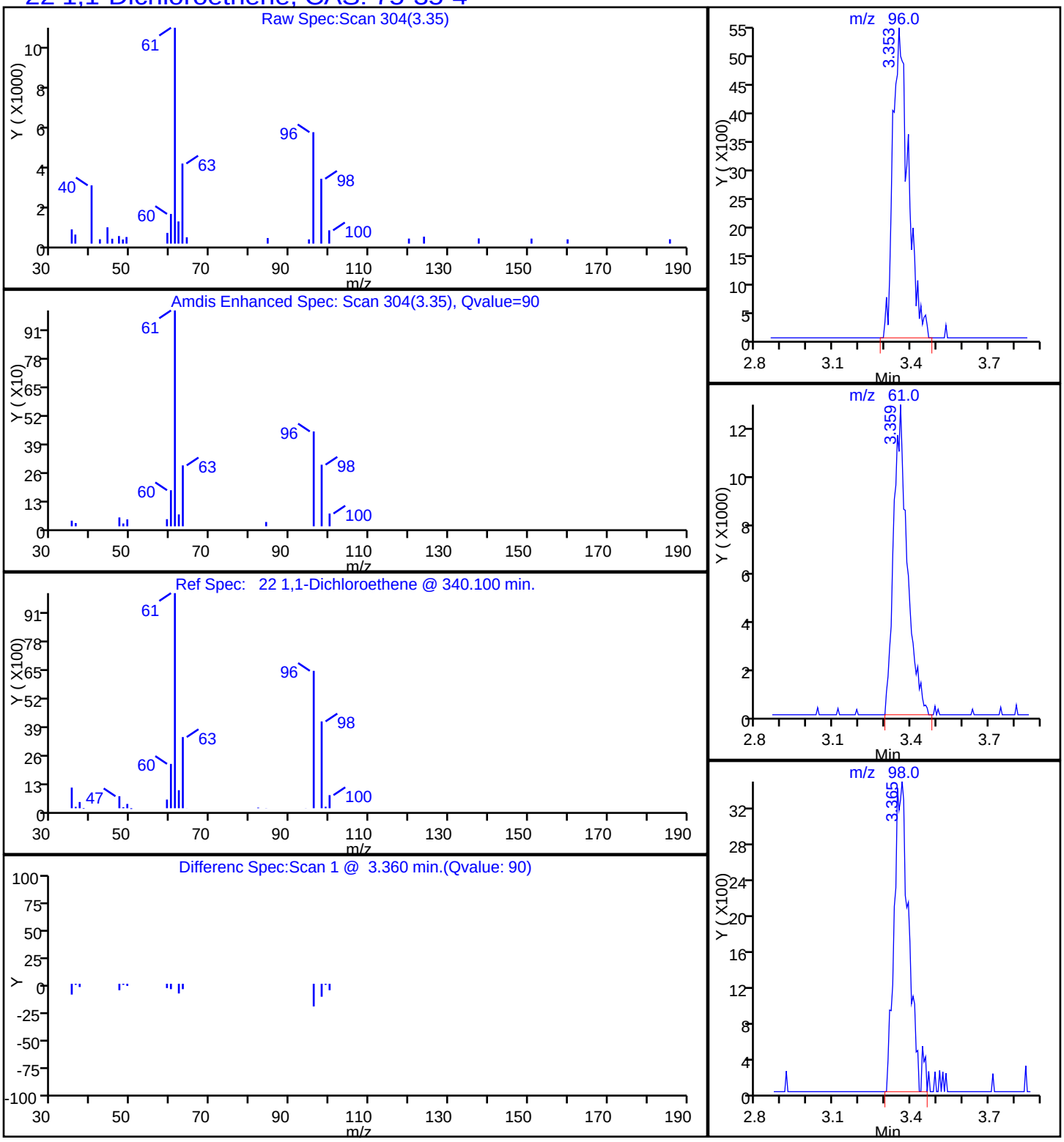
Operator ID: 034635 ALS Bottle#: 14 Worklist Smp#: 24

Purge Vol: 5.000 mL Dil. Factor: 2.0000

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: 18-Oct-2015 08:49:38 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151017-9055.b\51017024.D

Injection Date: 17-Oct-2015 20:49:30 Instrument ID: CHHP5

Lims ID: 180-48435-B-1 Lab Sample ID: 180-48435-1

Client ID: HD-CW-9-0/1-0

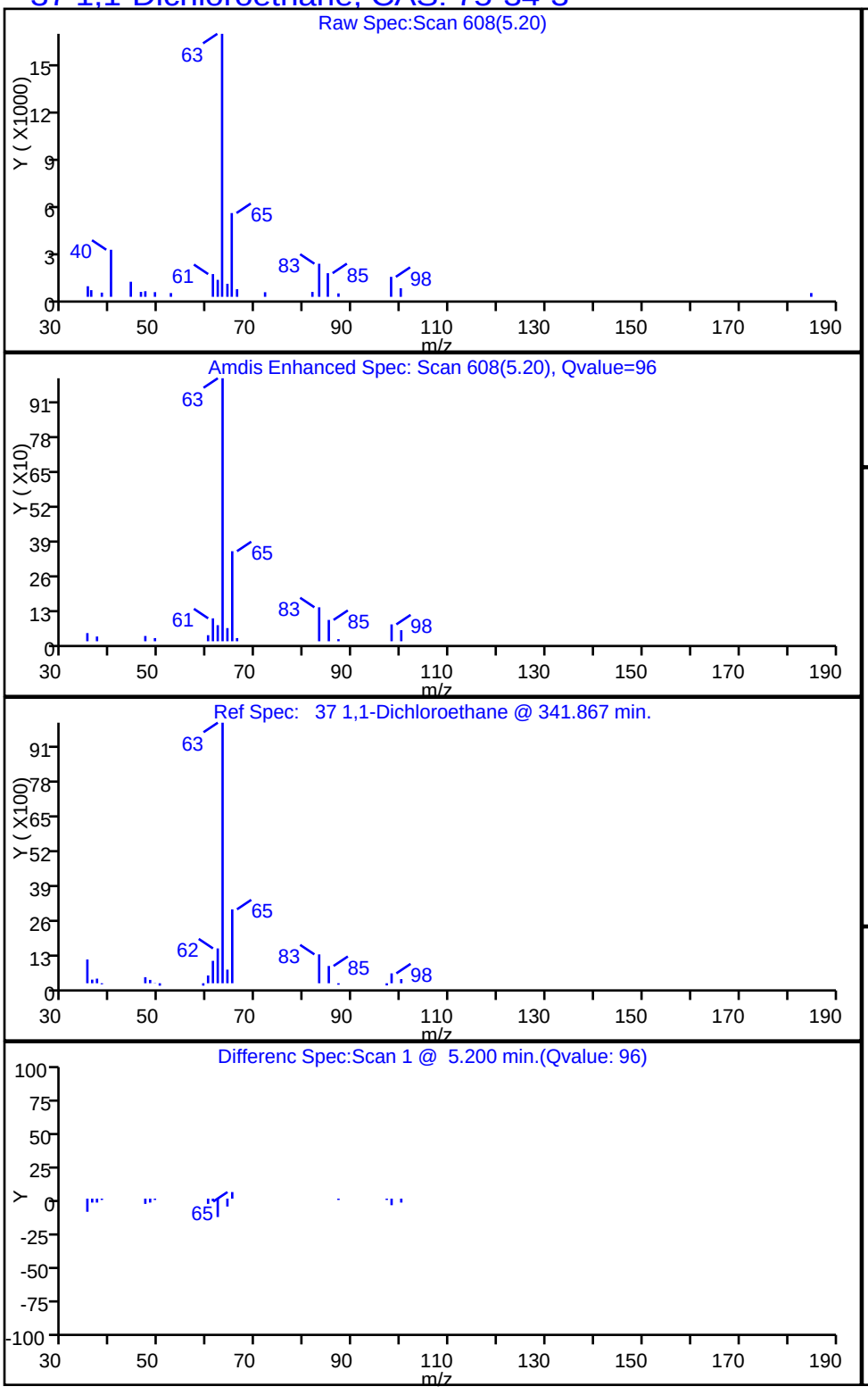
Operator ID: 034635 ALS Bottle#: 14 Worklist Smp#: 24

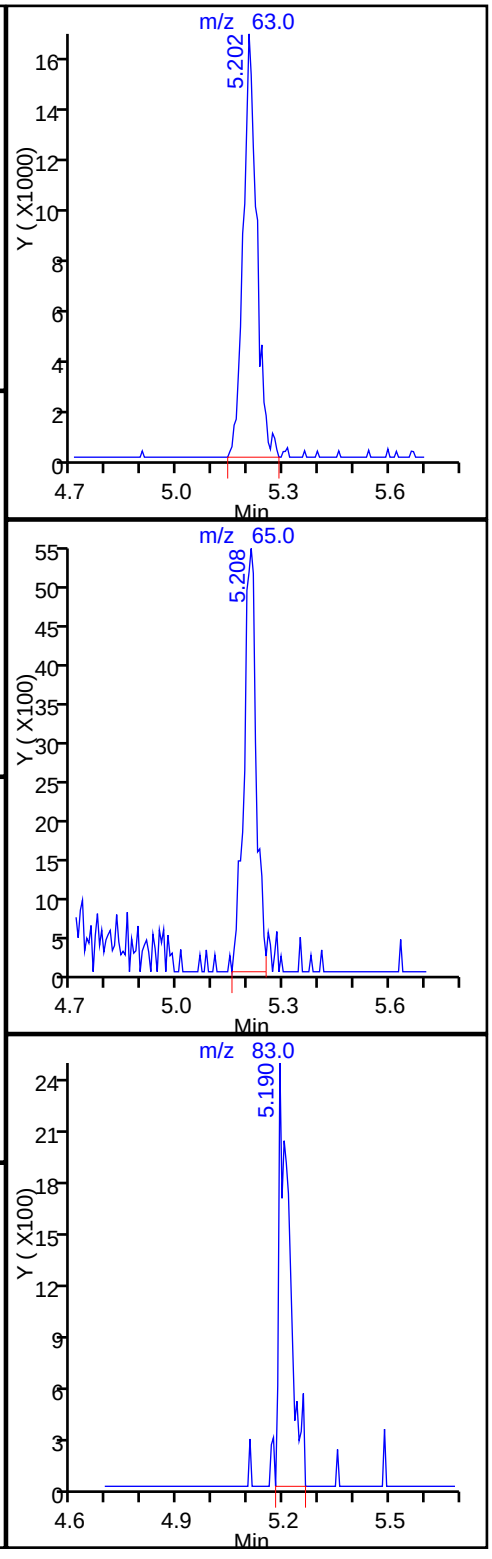
Purge Vol: 5.000 mL Dil. Factor: 2.0000

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





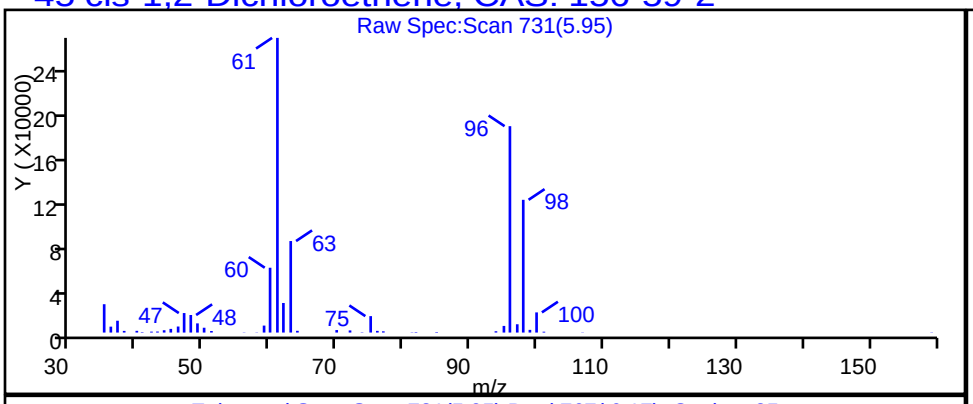
Report Date: 18-Oct-2015 08:49:38 Chrom Revision: 2.2 08-Sep-2015 13:41:46

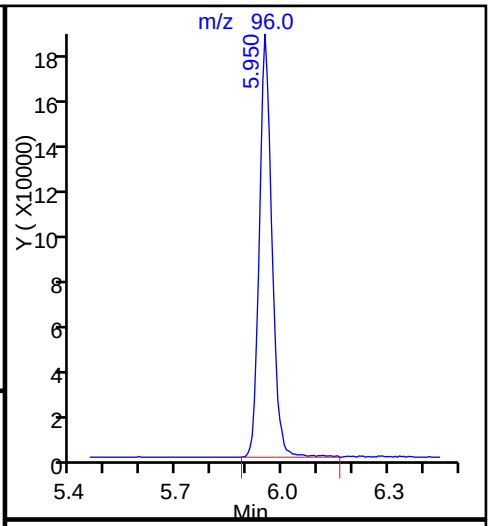
TestAmerica Pittsburgh

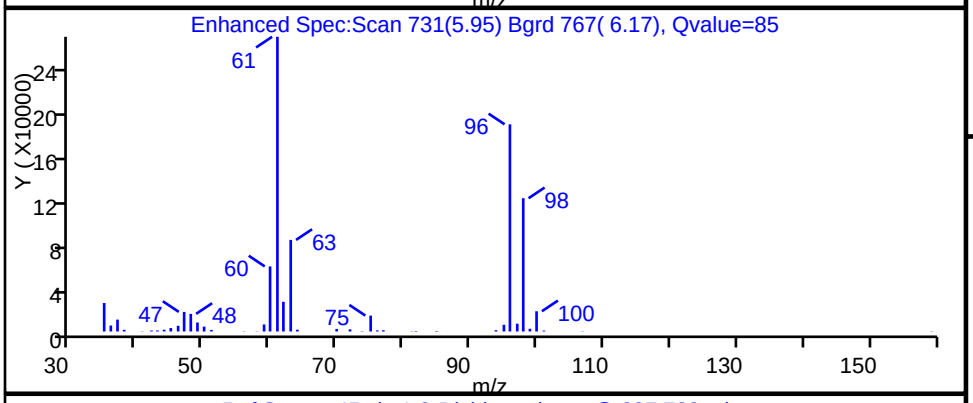
Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151017-9055.b\51017024.D

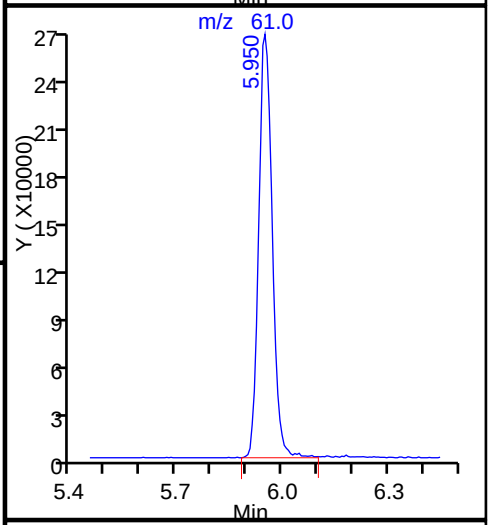
Injection Date:	17-Oct-2015 20:49:30	Instrument ID:	CHHP5		
Lims ID:	180-48435-B-1	Lab Sample ID:	180-48435-1		
Client ID:	HD-CW-9-0/1-0				
Operator ID:	034635	ALS Bottle#:	14	Worklist Smp#:	24
Purge Vol:	5.000 mL	Dil. Factor:	2.0000		
Method:	MSVOA_LL_CHHP5	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

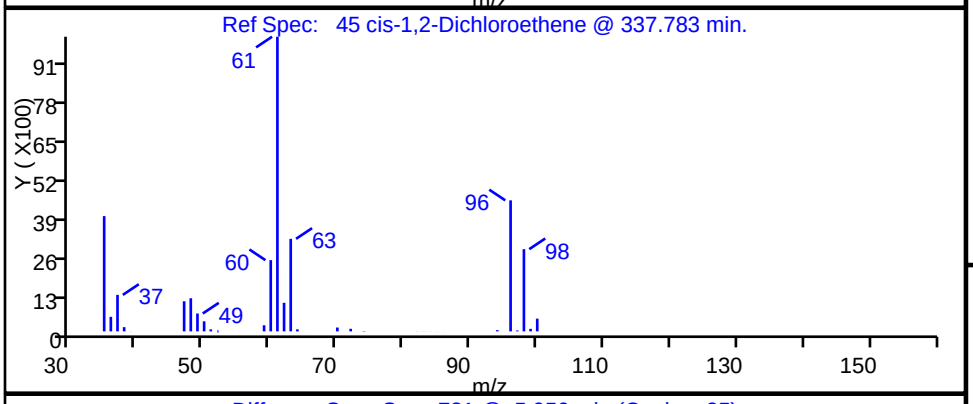
45 cis-1,2-Dichloroethene, CAS: 156-59-2

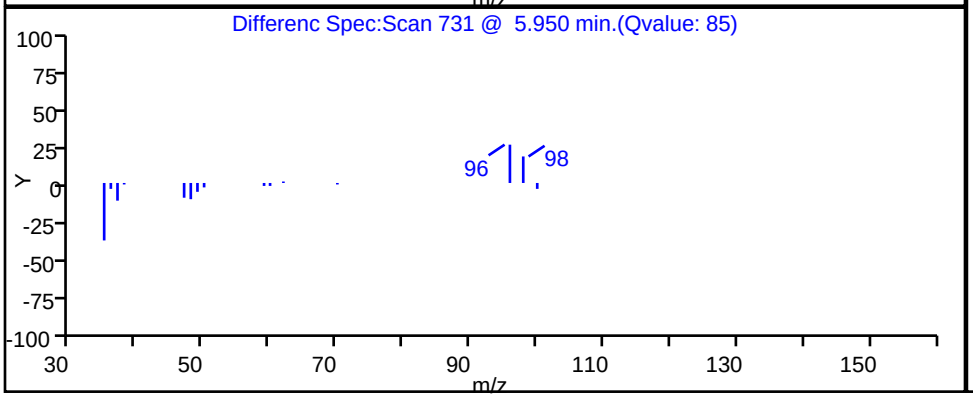


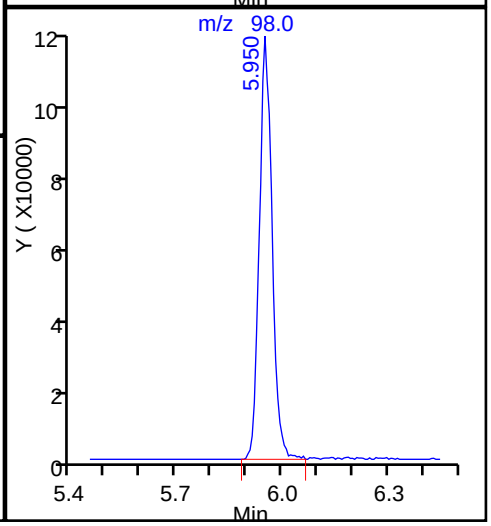












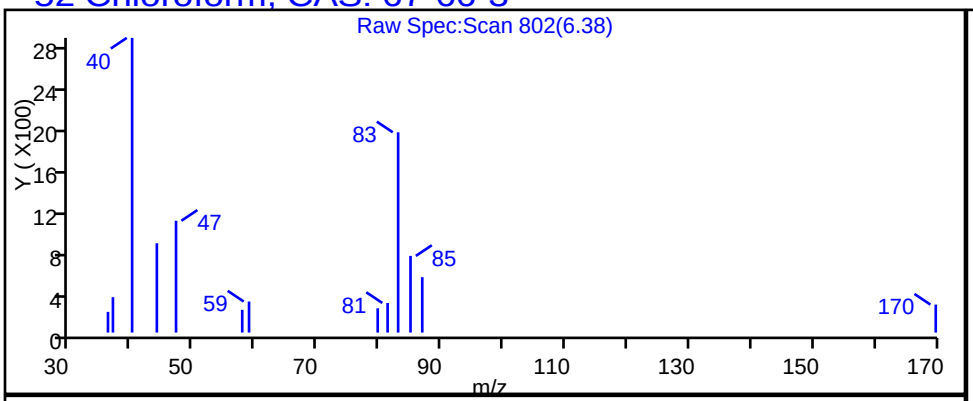
Report Date: 18-Oct-2015 08:49:38 Chrom Revision: 2.2 08-Sep-2015 13:41:46

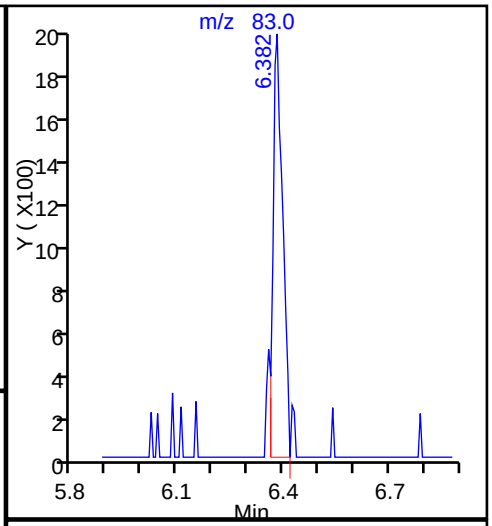
TestAmerica Pittsburgh

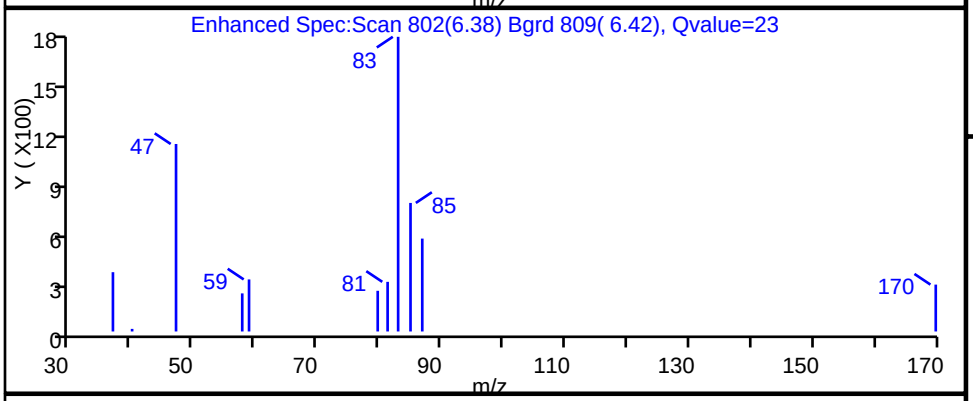
Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151017-9055.b\51017024.D

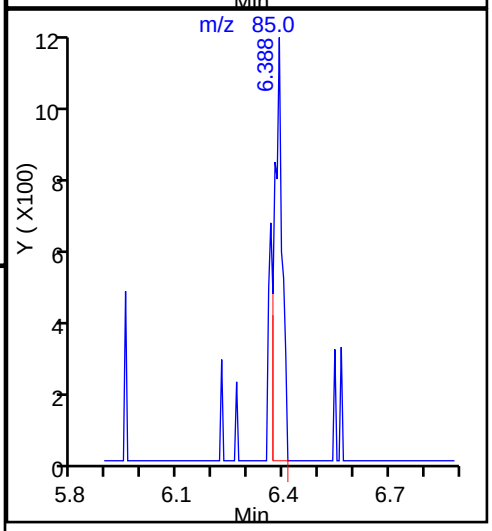
Injection Date:	17-Oct-2015 20:49:30	Instrument ID:	CHHP5		
Lims ID:	180-48435-B-1	Lab Sample ID:	180-48435-1		
Client ID:	HD-CW-9-0/1-0				
Operator ID:	034635	ALS Bottle#:	14	Worklist Smp#:	24
Purge Vol:	5.000 mL	Dil. Factor:	2.0000		
Method:	MSVOA_LL_CHHP5	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

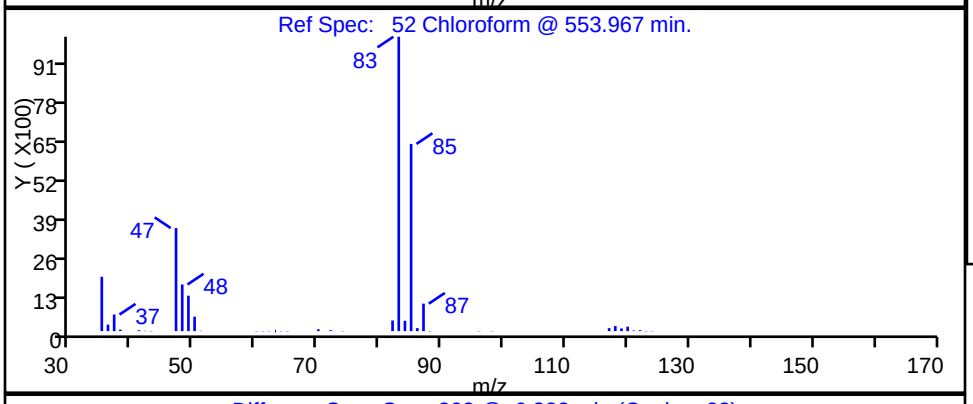
52 Chloroform, CAS: 67-66-3

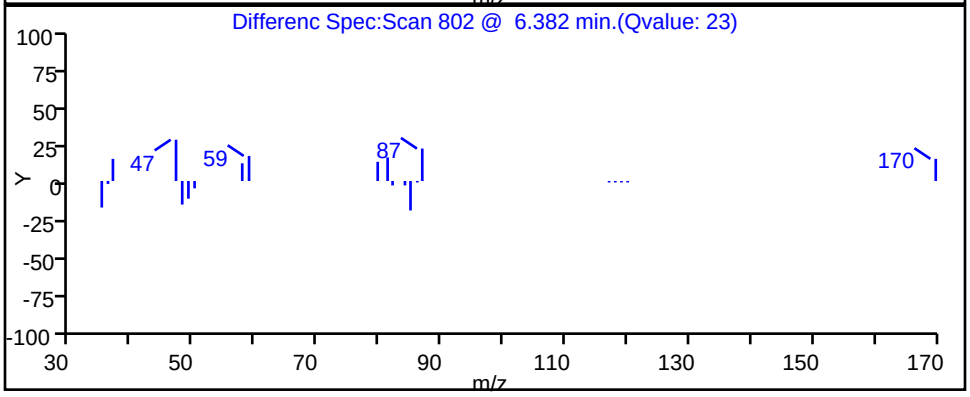












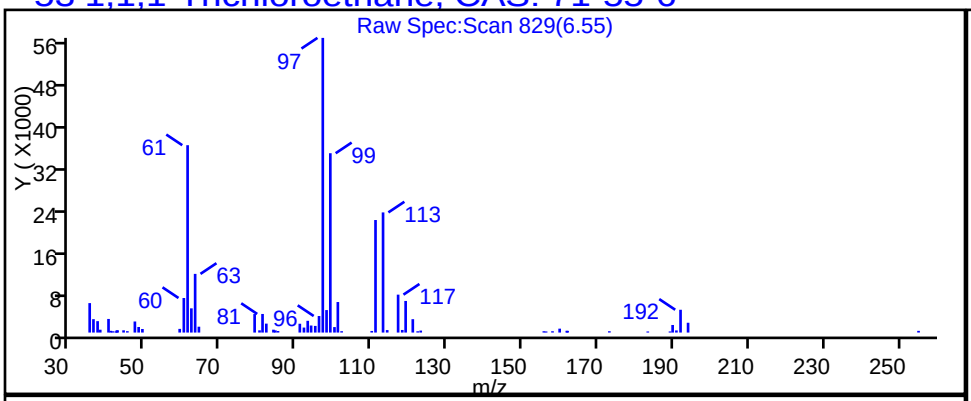
Report Date: 18-Oct-2015 08:49:38 Chrom Revision: 2.2 08-Sep-2015 13:41:46

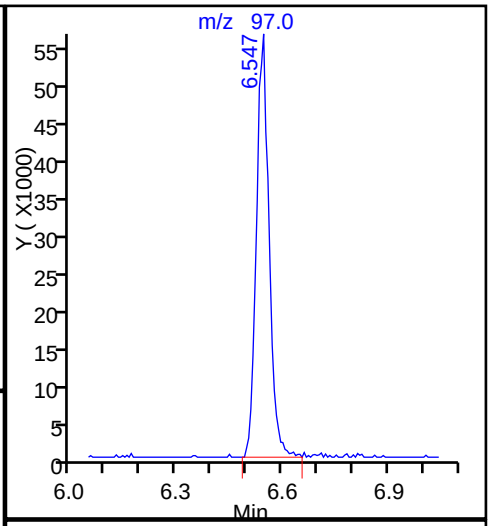
TestAmerica Pittsburgh

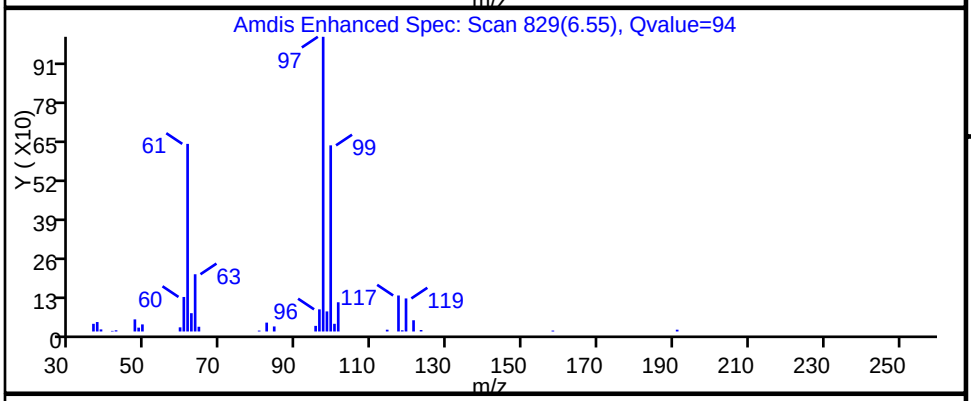
Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151017-9055.b\51017024.D

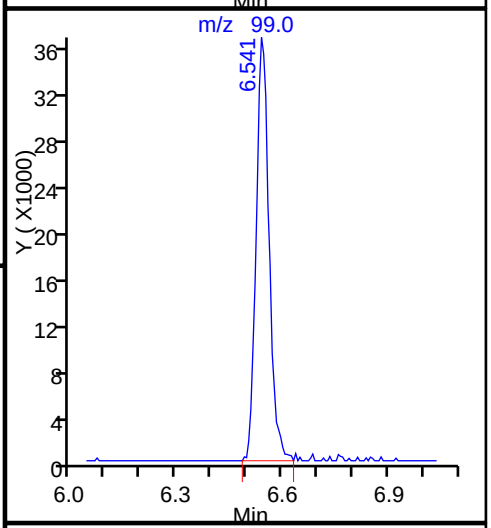
Injection Date:	17-Oct-2015 20:49:30	Instrument ID:	CHHP5		
Lims ID:	180-48435-B-1	Lab Sample ID:	180-48435-1		
Client ID:	HD-CW-9-0/1-0				
Operator ID:	034635	ALS Bottle#:	14	Worklist Smp#:	24
Purge Vol:	5.000 mL	Dil. Factor:	2.0000		
Method:	MSVOA_LL_CHHP5	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

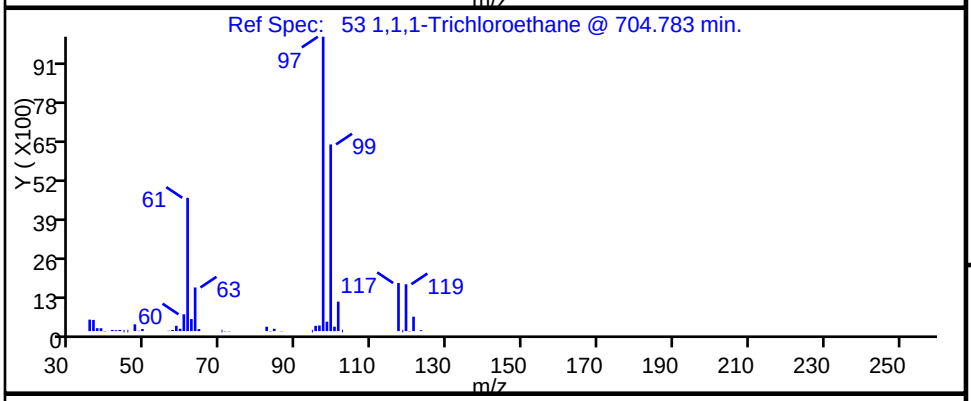
53 1,1,1-Trichloroethane, CAS: 71-55-6

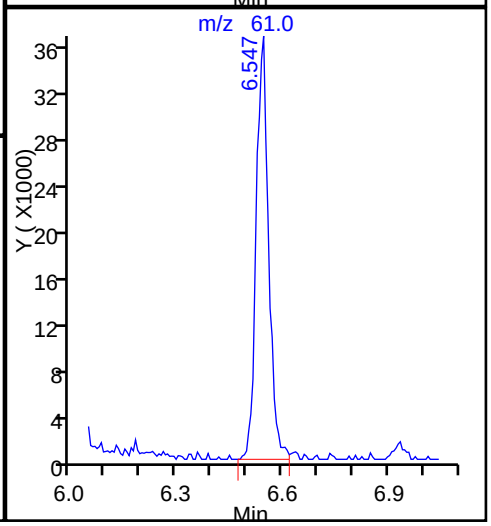


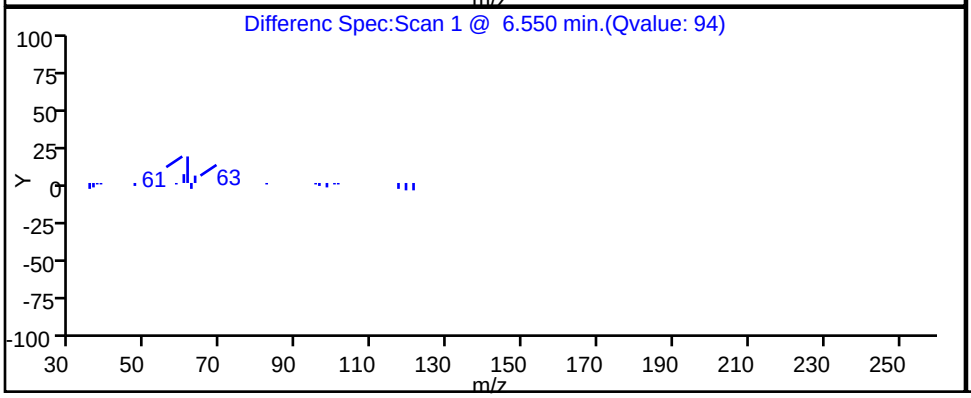












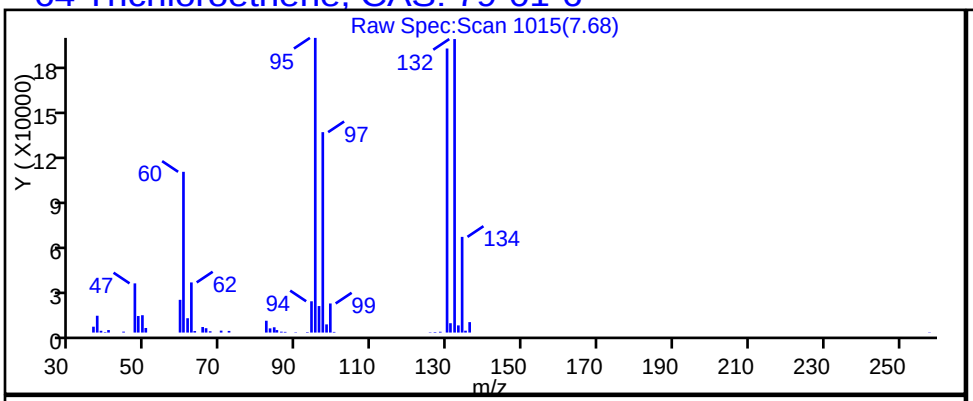
Report Date: 18-Oct-2015 08:49:38 Chrom Revision: 2.2 08-Sep-2015 13:41:46

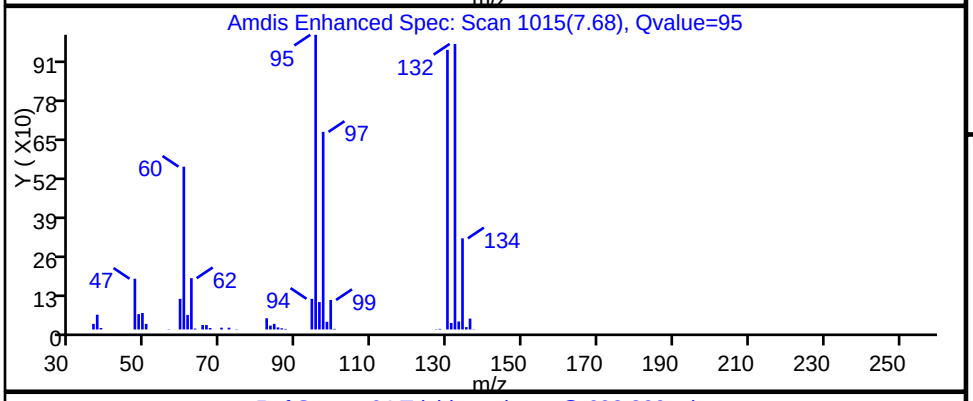
TestAmerica Pittsburgh

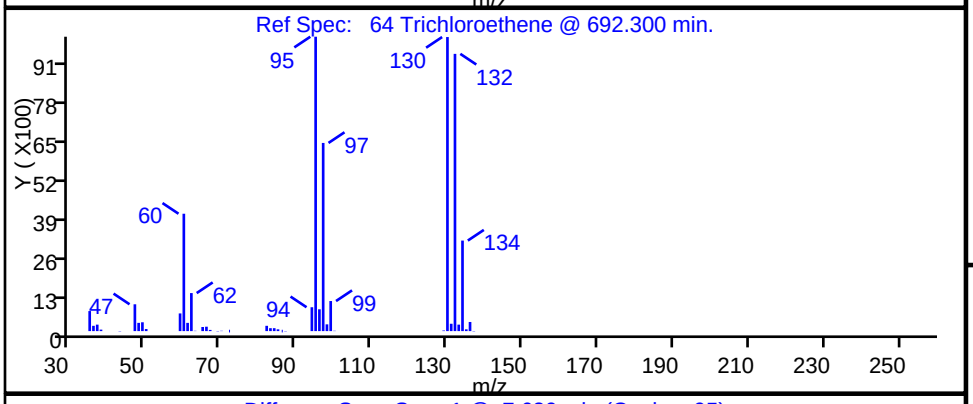
Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151017-9055.b\51017024.D

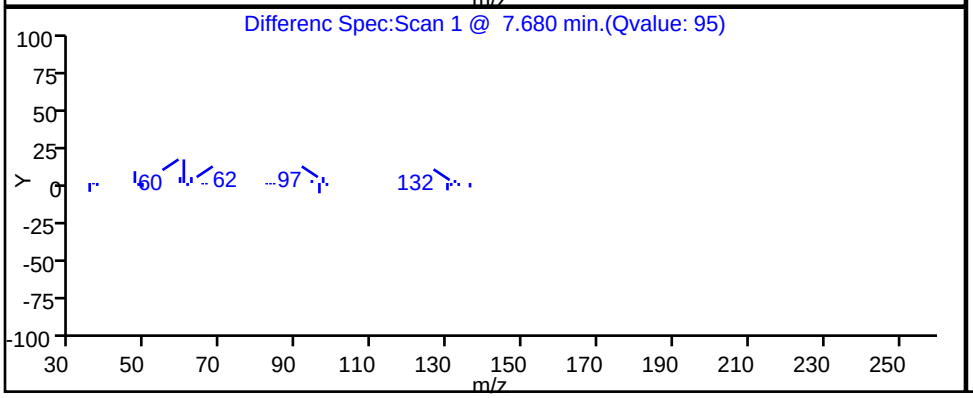
Injection Date:	17-Oct-2015 20:49:30	Instrument ID:	CHHP5		
Lims ID:	180-48435-B-1	Lab Sample ID:	180-48435-1		
Client ID:	HD-CW-9-0/1-0				
Operator ID:	034635	ALS Bottle#:	14	Worklist Smp#:	24
Purge Vol:	5.000 mL	Dil. Factor:	2.0000		
Method:	MSVOA_LL_CHHP5	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

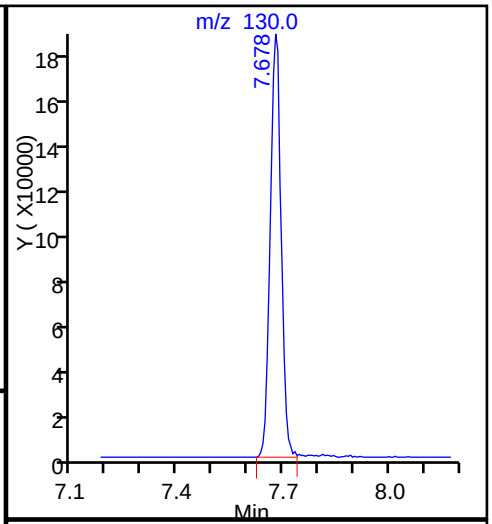
64 Trichloroethene, CAS: 79-01-6

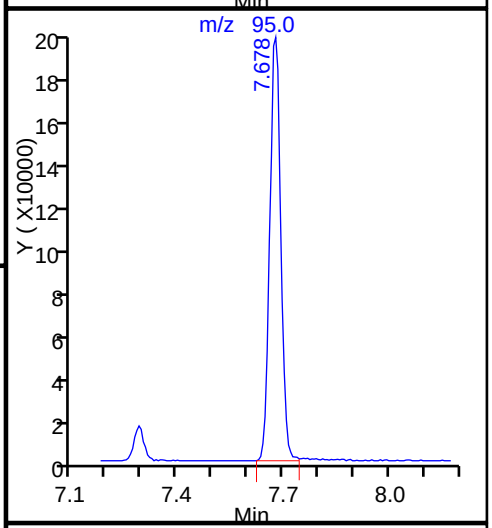


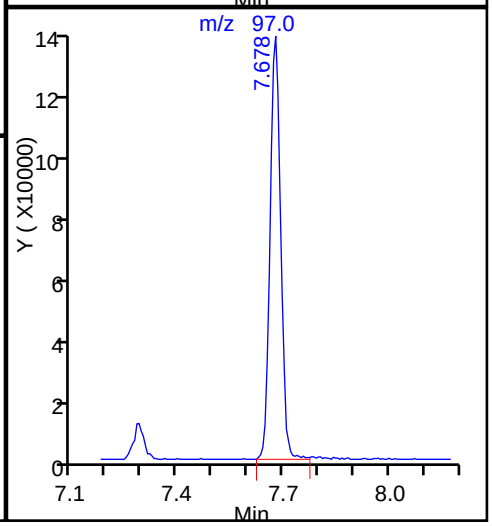












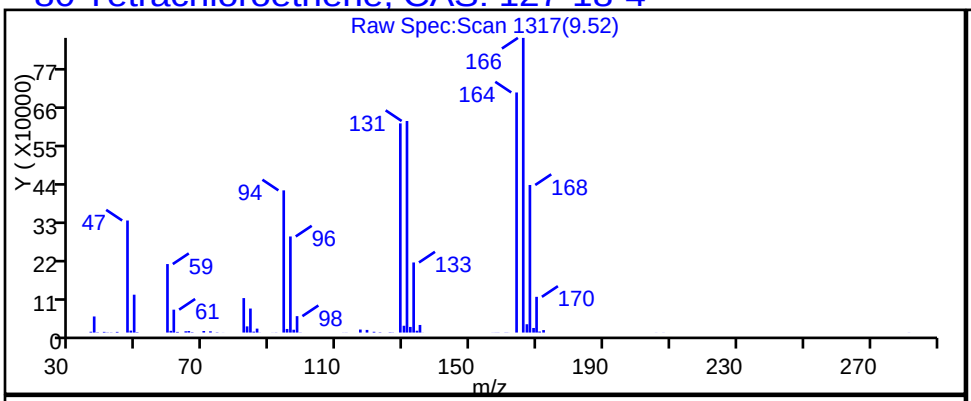
Report Date: 18-Oct-2015 08:49:38 Chrom Revision: 2.2 08-Sep-2015 13:41:46

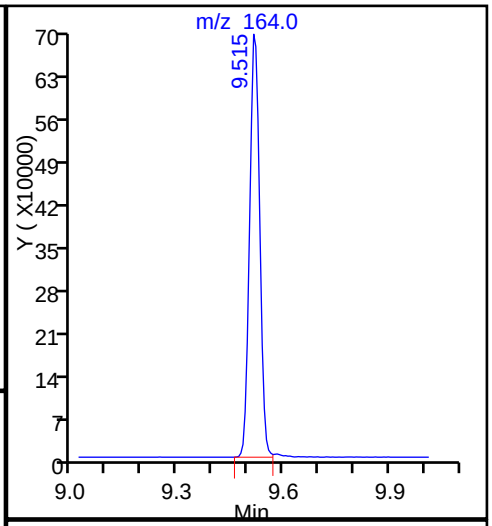
TestAmerica Pittsburgh

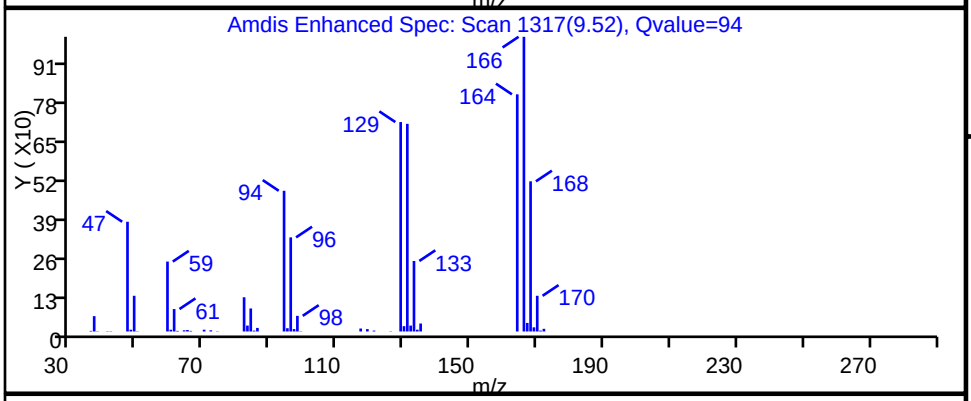
Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151017-9055.b\51017024.D

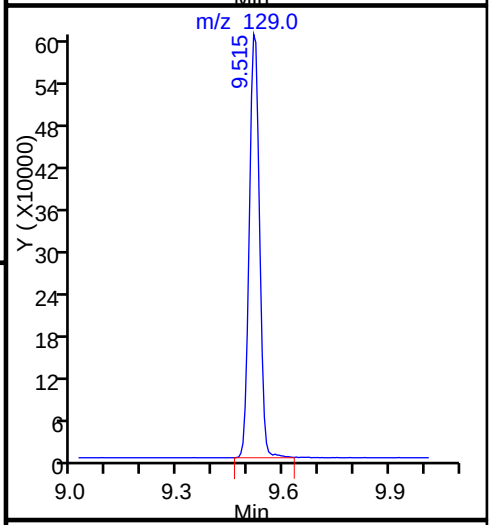
Injection Date:	17-Oct-2015 20:49:30	Instrument ID:	CHHP5		
Lims ID:	180-48435-B-1	Lab Sample ID:	180-48435-1		
Client ID:	HD-CW-9-0/1-0				
Operator ID:	034635	ALS Bottle#:	14	Worklist Smp#:	24
Purge Vol:	5.000 mL	Dil. Factor:	2.0000		
Method:	MSVOA_LL_CHHP5	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

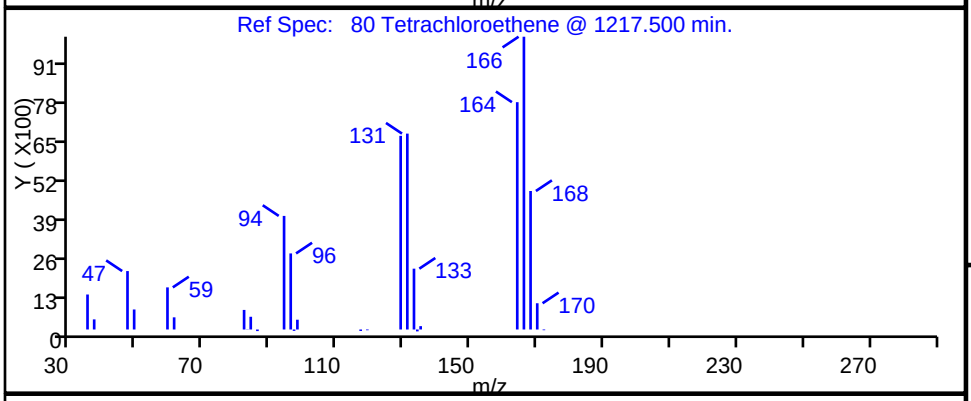
80 Tetrachloroethene, CAS: 127-18-4

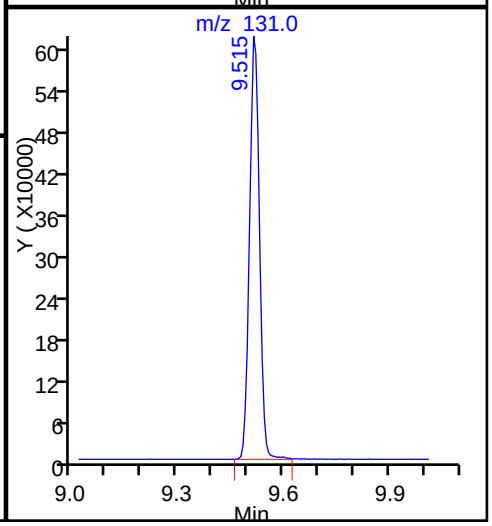


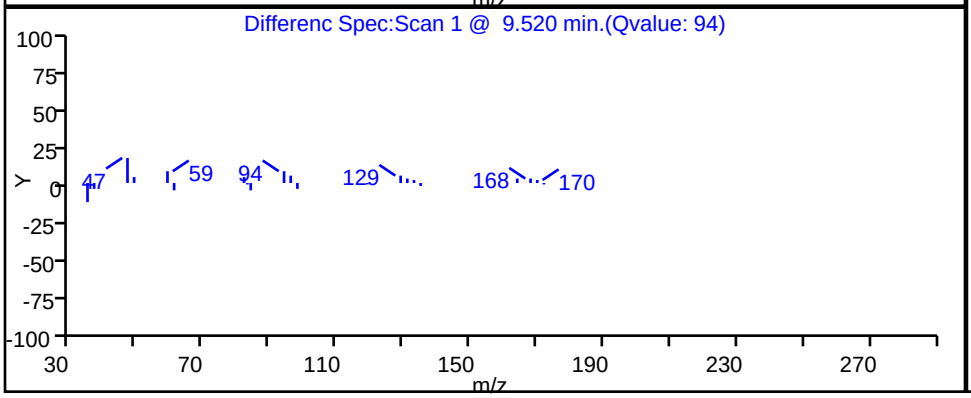












FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-48435-1

SDG No.:

Client Sample ID: HD-CW-9-0/1-0 DL | Lab Sample ID: 180-48435-1 DL

Matrix: Water | Lab File ID: 51016019.D

Analysis Method: 8260C | Date Collected: 10/05/2015 06:20

Sample wt/vol: 5(mL) | Date Analyzed: 10/16/2015 19:34

Soil Aliquot Vol: | Dilution Factor: 20

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 157249 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	ND		20	5.7
75-01-4	Vinyl chloride	ND	^c	20	4.5
74-83-9	Bromomethane	ND	^c	20	6.3
75-00-3	Chloroethane	ND	^c	20	4.3
75-35-4	1,1-Dichloroethene	ND		20	5.9
67-64-1	Acetone	ND		100	50
75-15-0	Carbon disulfide	ND		20	4.2
75-09-2	Methylene Chloride	ND		20	2.5
156-60-5	trans-1,2-Dichloroethene	ND		20	3.4
1634-04-4	Methyl tert-butyl ether	ND		20	3.7
75-34-3	1,1-Dichloroethane	4.7	J	20	2.3
156-59-2	cis-1,2-Dichloroethene	90		20	4.7
74-97-5	Bromochloromethane	ND	^c	20	3.6
78-93-3	2-Butanone (MEK)	ND		100	11
67-66-3	Chloroform	ND		20	3.4
71-55-6	1,1,1-Trichloroethane	21		20	5.7
56-23-5	Carbon tetrachloride	ND		20	2.7
71-43-2	Benzene	ND		20	2.1
107-06-2	1,2-Dichloroethane	ND		20	4.2
79-01-6	Trichloroethene	80		20	2.9
78-87-5	1,2-Dichloropropane	ND		20	1.9
75-27-4	Bromodichloromethane	ND		20	2.6
10061-01-5	cis-1,3-Dichloropropene	ND		20	3.7
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		100	11
108-88-3	Toluene	ND		20	3.0
10061-02-6	trans-1,3-Dichloropropene	ND		20	3.0
79-00-5	1,1,2-Trichloroethane	ND		20	4.0
127-18-4	Tetrachloroethene	430		20	3.0
591-78-6	2-Hexanone	ND		100	3.2
124-48-1	Dibromochloromethane	ND		20	2.7
106-93-4	1,2-Dibromoethane (EDB)	ND		20	3.6
108-90-7	Chlorobenzene	ND		20	2.7
630-20-6	1,1,1,2-Tetrachloroethane	ND		20	5.5
100-41-4	Ethylbenzene	ND		20	4.5
1330-20-7	Xylenes, Total	ND		60	9.8
100-42-5	Styrene	ND		20	1.9

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-48435-1

SDG No.:

Client Sample ID: HD-CW-9-0/1-0 DL | Lab Sample ID: 180-48435-1 DL

Matrix: Water | Lab File ID: 51016019.D

Analysis Method: 8260C | Date Collected: 10/05/2015 06:20

Sample wt/vol: 5(mL) | Date Analyzed: 10/16/2015 19:34

Soil Aliquot Vol: | Dilution Factor: 20

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 157249 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-25-2	*Bromoform*	*ND*		*20*	*3.8*
79-34-5	*1,1,2,2-Tetrachloroethane*	*ND*		*20*	*4.0*
107-13-1	*Acrylonitrile*	*ND*		*400*	*11*
123-91-1	*1,4-Dioxane*	*ND*		*4000*	*690*

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		64-135
2037-26-5	Toluene-d8 (Surr)	106		71-118
460-00-4	4-Bromofluorobenzene (Surr)	93		70-118
1868-53-7	Dibromofluoromethane (Surr)	93		70-128

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151016-9043.b\51016019.D
Lims ID: 180-48435-C-1 Lab Sample ID: 180-48435-1
Client ID: HD-CW-9-0/1-0
Sample Type: Client
Inject. Date: 16-Oct-2015 19:34:30 ALS Bottle#: 14 Worklist Smp#: 19
Purge Vol: 5.000 mL Dil. Factor: 20.0000
Sample Info: 180-48435-C-1, 20x
Misc. Info.: 180-0009043-019
Operator ID: 001562 Instrument ID: CHHP5

Method: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151016-9043.b\MSVOA_LL_CHHP5.m
Limit Group: VOA 8260C ICAL
Last Update: 17-Oct-2015 13:01:22 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: XAWRK051

First Level Reviewer: journetp Date: 17-Oct-2015 11:23:48

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.269	4.271	-0.002	0	94649	1000.0	
* 2 Fluorobenzene (IS)	96	7.292	7.289	0.003	98	371418	50.0	
* 3 Chlorobenzene-d5	119	10.389	10.391	-0.002	90	80789	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.731	12.733	-0.002	97	115187	50.0	
$ 5 Dibromofluoromethane (Surr	113	6.562	6.560	0.002	94	84664	46.4	
$ 6 1,2-Dichloroethane-d4 (Sur	65	6.933	6.931	0.002	0	129368	51.6	
$ 7 Toluene-d8 (Surr)	98	8.941	8.939	0.002	95	329297	52.8	
$ 8 4-Bromofluorobenzene (Surr	95	11.575	11.573	0.002	87	109105	46.4	
12 Chloromethane	50		1.760				ND	
13 Vinyl chloride	62		1.900				ND	
15 Bromomethane	94		2.247				ND	
16 Chloroethane	64		2.387				ND	
22 1,1-Dichloroethene	96		3.354				ND	
24 Acetone	43		3.433				ND	
26 Carbon disulfide	76		3.646				ND	
31 Methylene Chloride	84		4.139				ND	
33 Acrylonitrile	53		4.522				ND	
34 trans-1,2-Dichloroethene	96		4.565				ND	
35 Methyl tert-butyl ether	73		4.583				ND	
37 1,1-Dichloroethane	63	5.212	5.198	0.014	1	5206	1.18	
45 cis-1,2-Dichloroethene	96	5.954	5.946	0.008	82	54079	22.5	
46 2-Butanone (MEK)	43		5.958				ND	
49 Chlorobromomethane	128		6.232				ND	
52 Chloroform	83		6.384				ND	
53 1,1,1-Trichloroethane	97	6.544	6.542	0.002	93	14752	5.22	
56 Carbon tetrachloride	117		6.712				ND	
58 Benzene	78		6.943				ND	
59 1,2-Dichloroethane	62		7.016				ND	
64 Trichloroethene	130	7.675	7.674	0.001	95	44777	20.0	
67 1,2-Dichloropropane	63		7.947				ND	
70 1,4-Dioxane	88		8.032				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
71 Dichlorobromomethane	83		8.233				ND	
74 cis-1,3-Dichloropropene	75		8.677				ND	
75 4-Methyl-2-pentanone (MIBK	43		8.823				ND	
76 Toluene	91		9.006				ND	
77 trans-1,3-Dichloropropene	75		9.249				ND	
79 1,1,2-Trichloroethane	97		9.444				ND	
80 Tetrachloroethene	164	9.519	9.517	0.002	95	167765	108.1	
82 2-Hexanone	43		9.657				ND	
84 Chlorodibromomethane	129		9.815				ND	
85 Ethylene Dibromide	107		9.930				ND	
87 Chlorobenzene	112		10.417				ND	
89 1,1,1,2-Tetrachloroethane	131		10.508				ND	
90 Ethylbenzene	106		10.514				ND	
91 m-Xylene & p-Xylene	106		10.648				ND	
92 o-Xylene	106		11.032				ND	
93 Styrene	104		11.050				ND	
94 Bromoform	173		11.232				ND	
99 1,1,2,2-Tetrachloroethane	83		11.707				ND	
S 133 Xylenes, Total	106		1.000				ND	

Reagents:

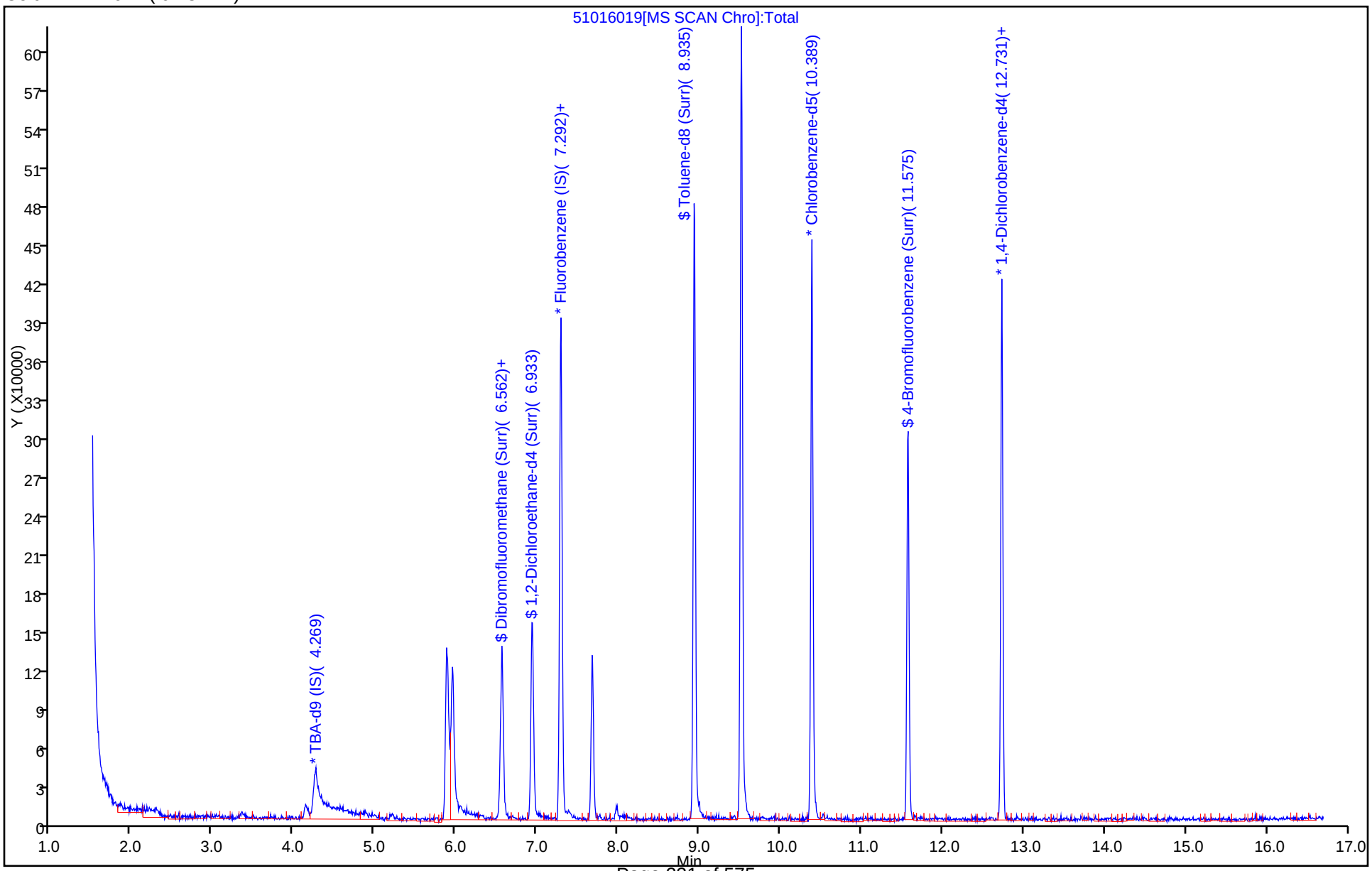
VOA8260INT_00043	Amount Added:	2.00	Units: uL	Run Reagent
VOA8260SURR_00043	Amount Added:	2.00	Units: uL	Run Reagent

Report Date: 17-Oct-2015 13:02:02 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHHP5\20151016-9043.b\51016019.D				
Injection Date:	16-Oct-2015 19:34:30	Instrument ID:	CHHP5	Operator ID:	001562
Lims ID:	180-48435-C-1	Lab Sample ID:	180-48435-1	Worklist Smp#:	19
Client ID:	HD-CW-9-0/1-0				
Purge Vol:	5.000 mL	Dil. Factor:	20.0000	ALS Bottle#:	14
Method:	MSVOA_LL_CHHP5	Limit Group:	VOA 8260C ICAL		

Column: DB-624 (0.18 mm)



Report Date: 17-Oct-2015 13:02:02 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151016-9043.b\51016019.D

Injection Date: 16-Oct-2015 19:34:30 Instrument ID: CHHP5

Lims ID: 180-48435-C-1 Lab Sample ID: 180-48435-1

Client ID: HD-CW-9-0/1-0

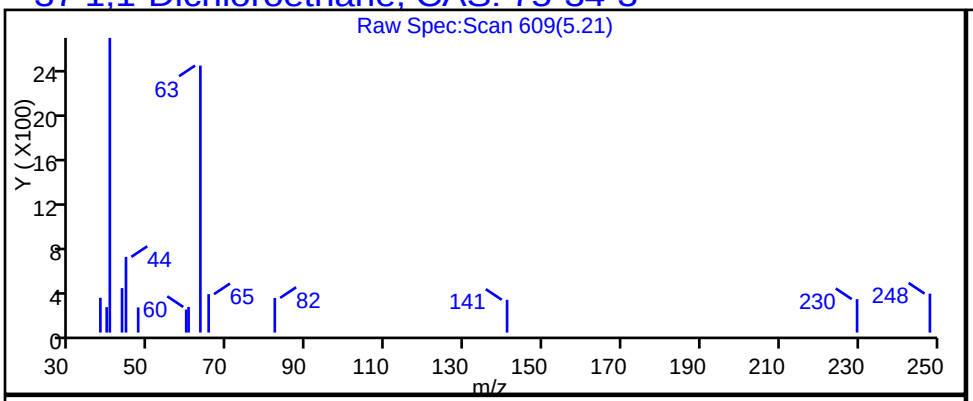
Operator ID: 001562 ALS Bottle#: 14 Worklist Smp#: 19

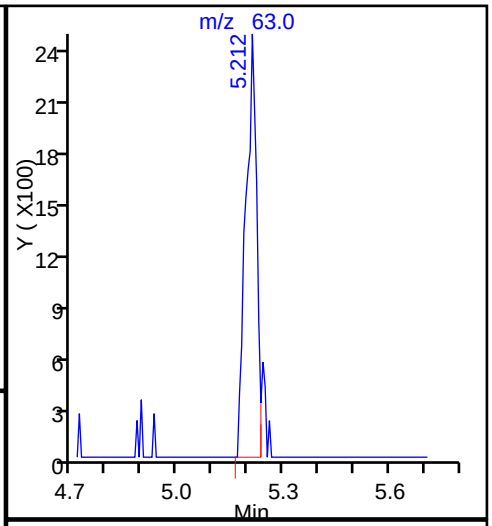
Purge Vol: 5.000 mL Dil. Factor: 20.0000

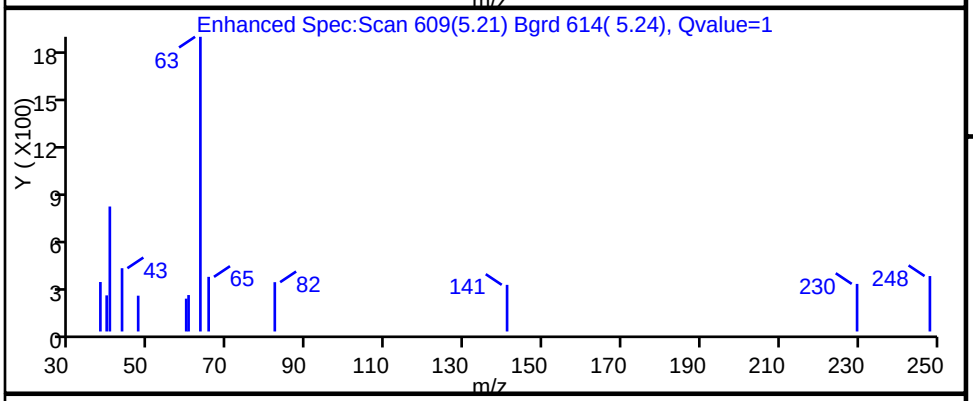
Method: MSVOA_LL_CHHP5 Limit Group: VOA 8260C ICAL

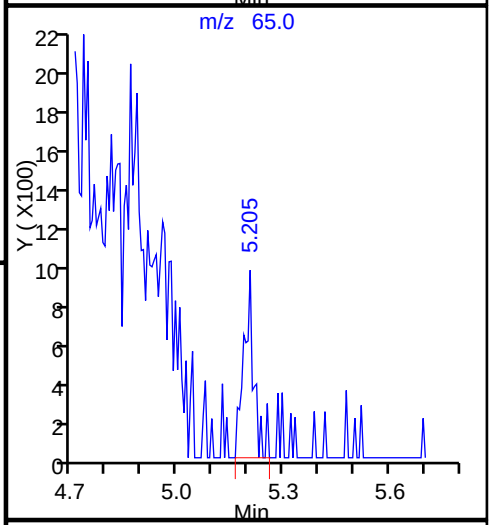
Column: DB-624 (0.18 mm) Detector MS SCAN

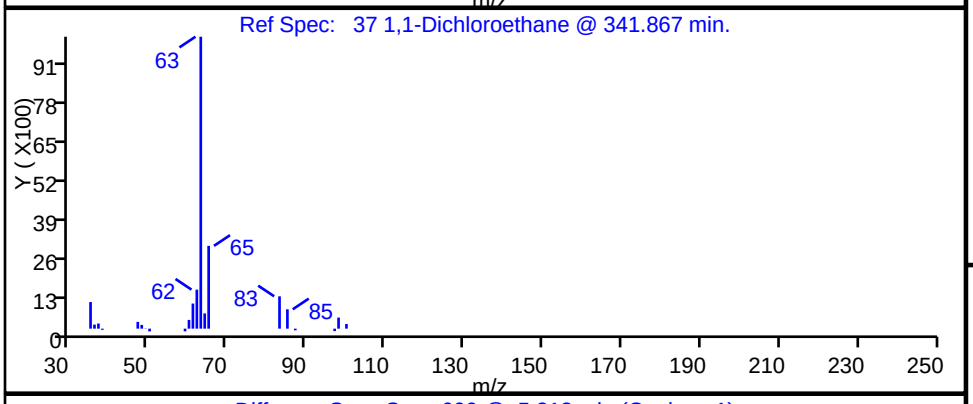
37 1,1-Dichloroethane, CAS: 75-34-3

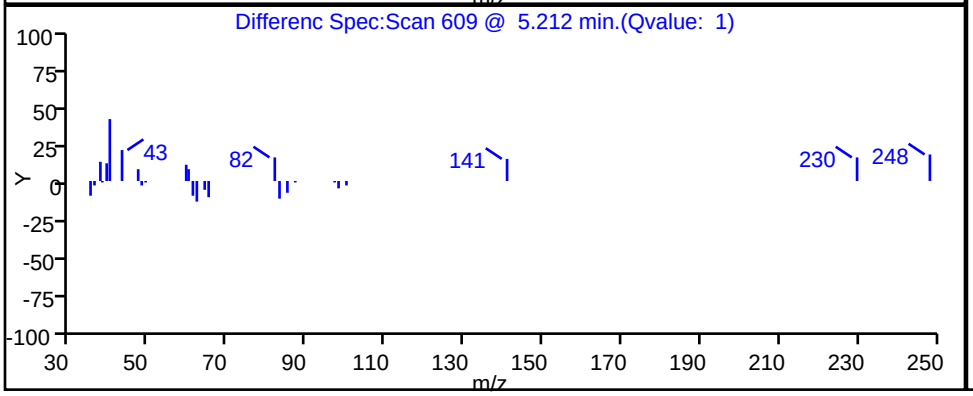


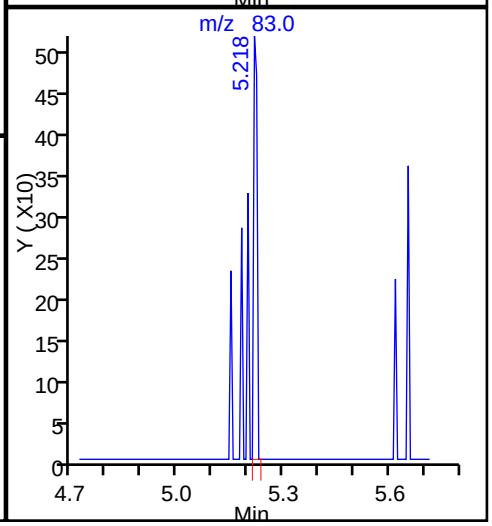










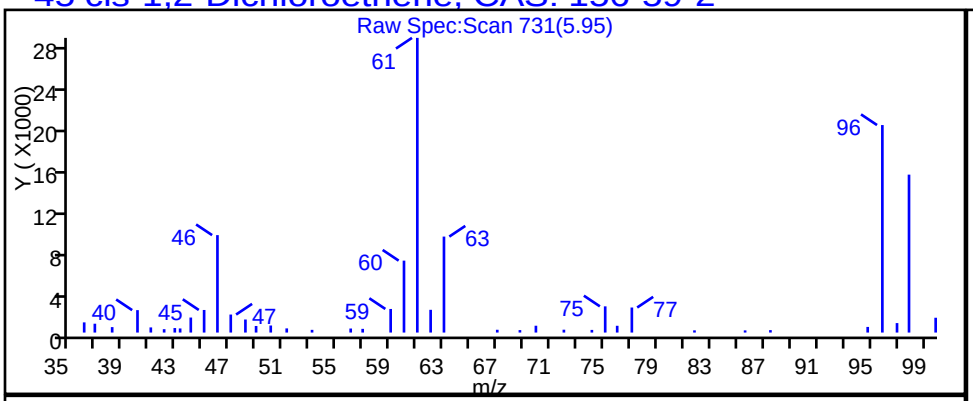


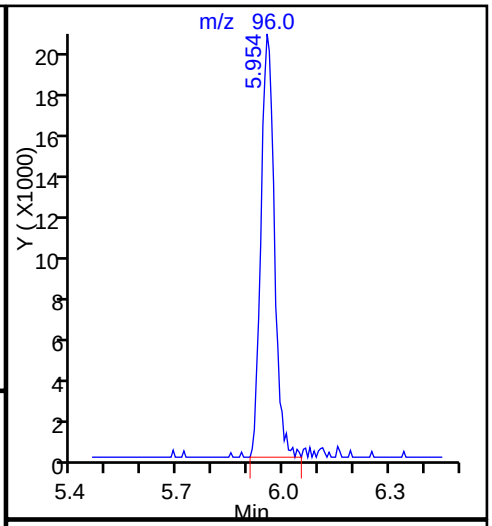
Report Date: 17-Oct-2015 13:02:03 Chrom Revision: 2.2 08-Sep-2015 13:41:46

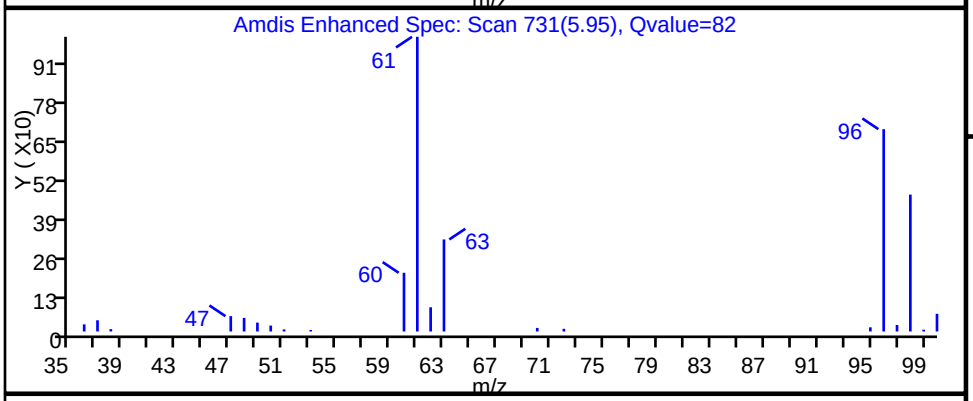
TestAmerica Pittsburgh

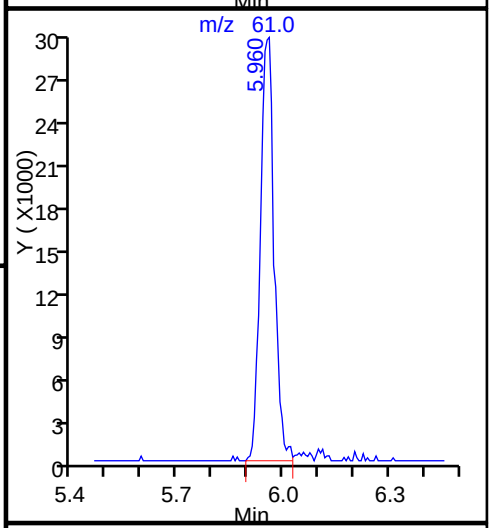
Data File:	\\ChromNA\Pittsburgh\ChromData\CHHP5\20151016-9043.b\51016019.D		
Injection Date:	16-Oct-2015 19:34:30	Instrument ID:	CHHP5
Lims ID:	180-48435-C-1	Lab Sample ID:	180-48435-1
Client ID:	HD-CW-9-0/1-0		
Operator ID:	001562	ALS Bottle#:	14 Worklist Smp#: 19
Purge Vol:	5.000 mL	Dil. Factor:	20.0000
Method:	MSVOA_LL_CHHP5	Limit Group:	VOA 8260C ICAL
Column:	DB-624 (0.18 mm)	Detector	MS SCAN

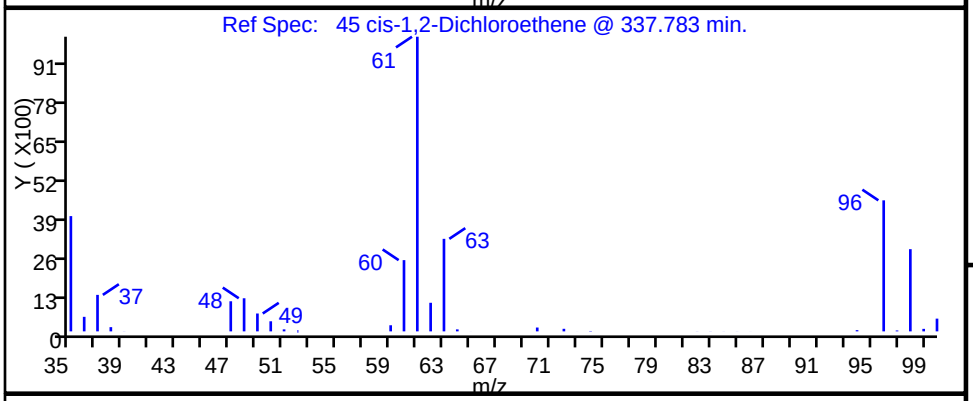
45 cis-1,2-Dichloroethene, CAS: 156-59-2

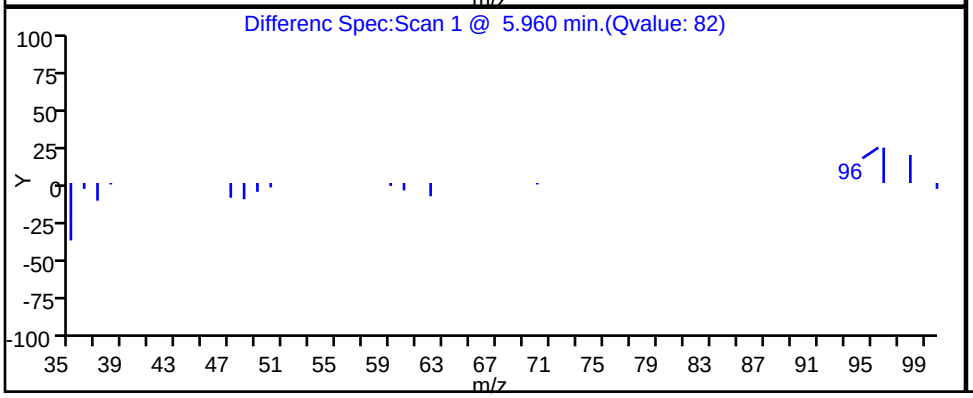


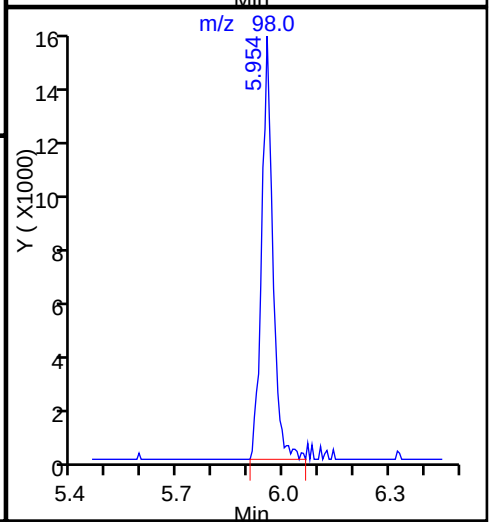










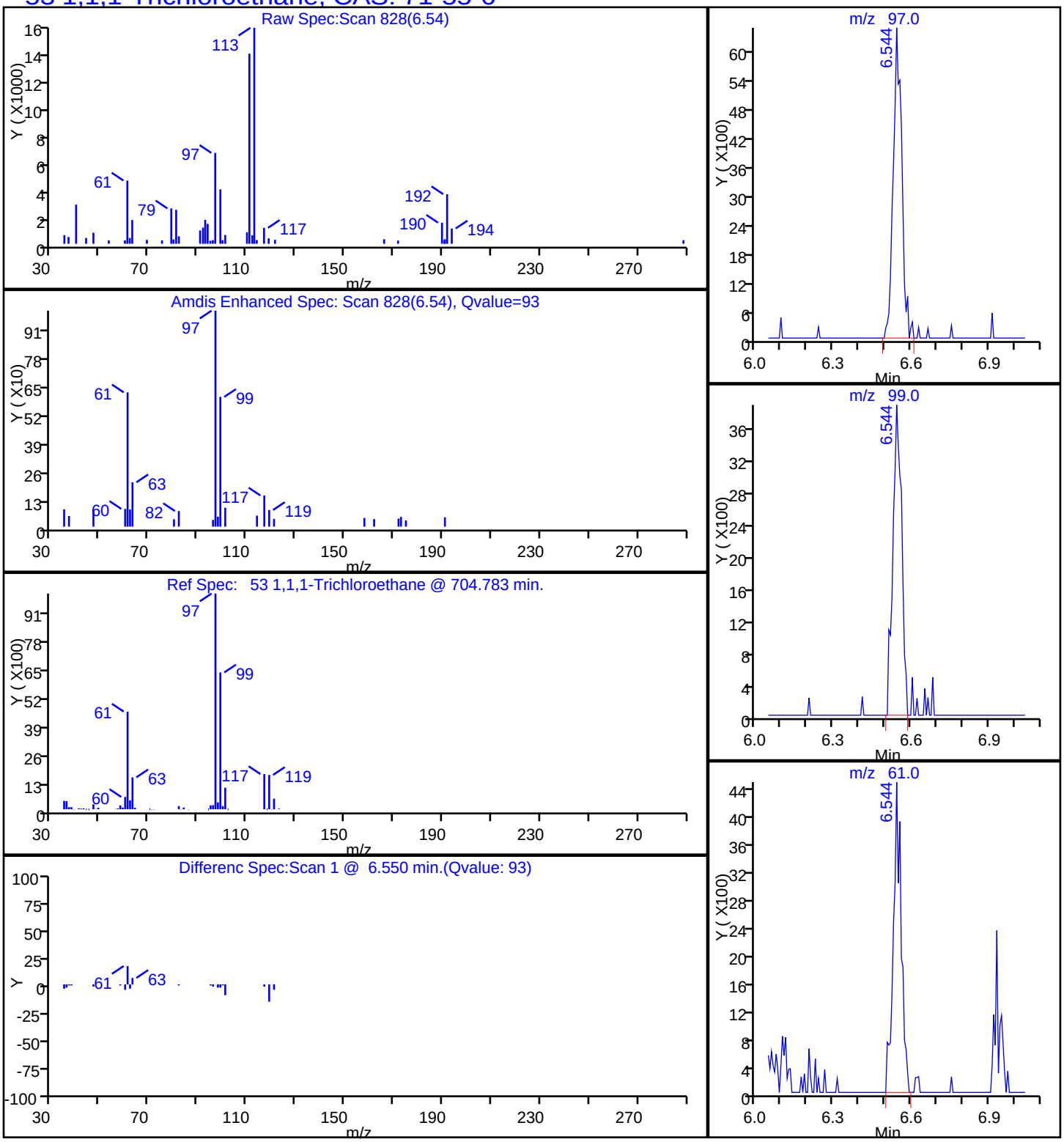


Report Date: 17-Oct-2015 13:02:03 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHHP5\20151016-9043.b\51016019.D				
Injection Date:	16-Oct-2015 19:34:30	Instrument ID:	CHHP5		
Lims ID:	180-48435-C-1	Lab Sample ID:	180-48435-1		
Client ID:	HD-CW-9-0/1-0				
Operator ID:	001562	ALS Bottle#:	14	Worklist Smp#:	19
Purge Vol:	5.000 mL	Dil. Factor:	20.0000		
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: 17-Oct-2015 13:02:03 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151016-9043.b\51016019.D

Injection Date: 16-Oct-2015 19:34:30 Instrument ID: CHHP5

Lims ID: 180-48435-C-1 Lab Sample ID: 180-48435-1

Client ID: HD-CW-9-0/1-0

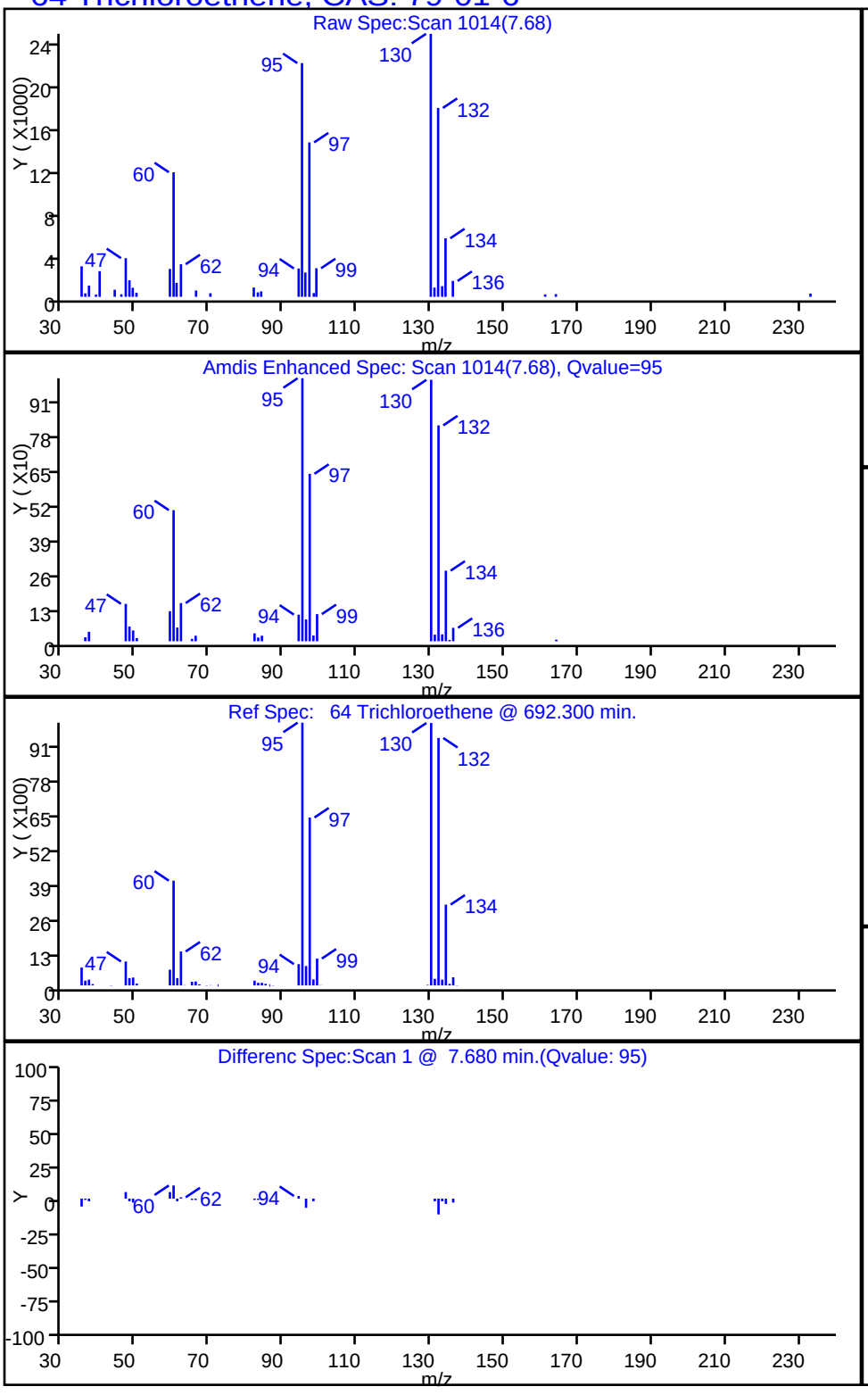
Operator ID: 001562 ALS Bottle#: 14 Worklist Smp#: 19

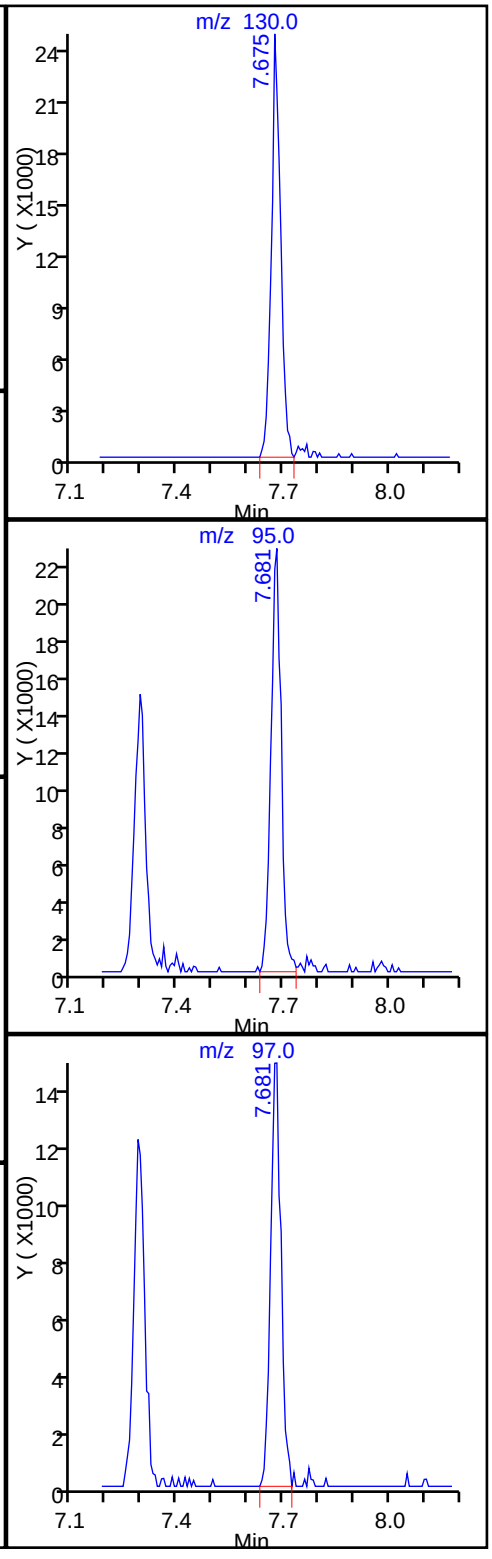
Purge Vol: 5.000 mL Dil. Factor: 20.0000

Method: MSVOA_LL_CHHP5 Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm) Detector MS SCAN

64 Trichloroethene, CAS: 79-01-6





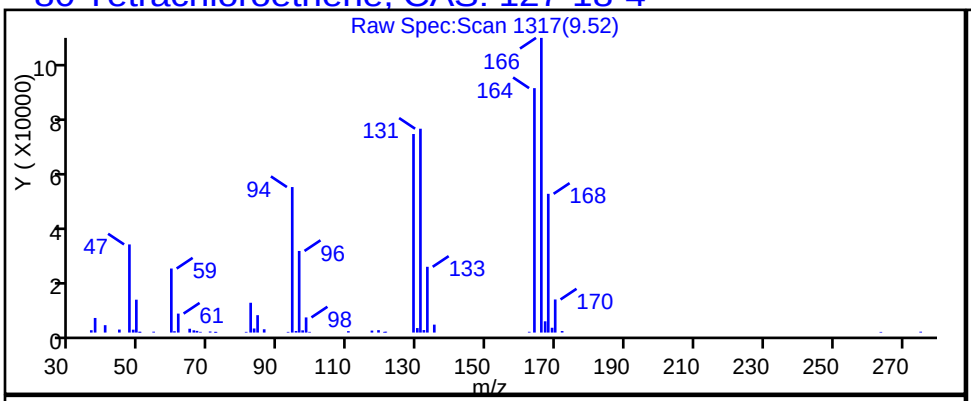
Report Date: 17-Oct-2015 13:02:04 Chrom Revision: 2.2 08-Sep-2015 13:41:46

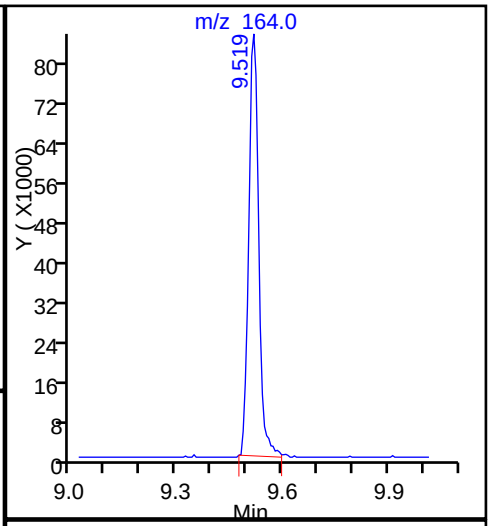
TestAmerica Pittsburgh

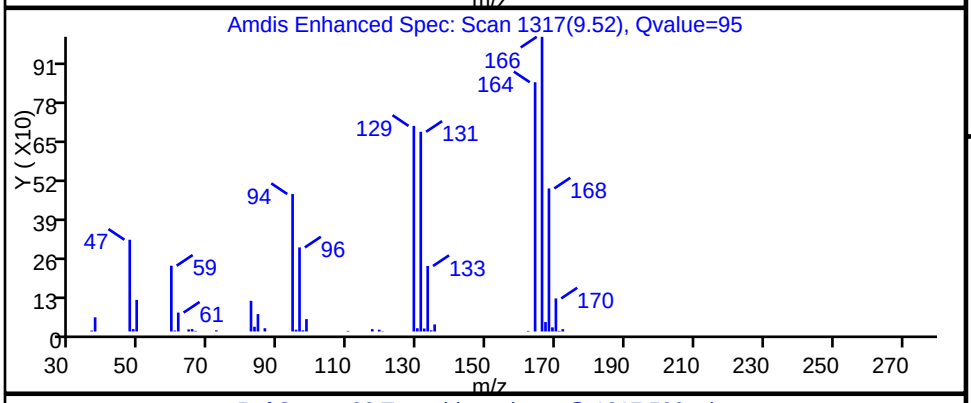
Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151016-9043.b\51016019.D

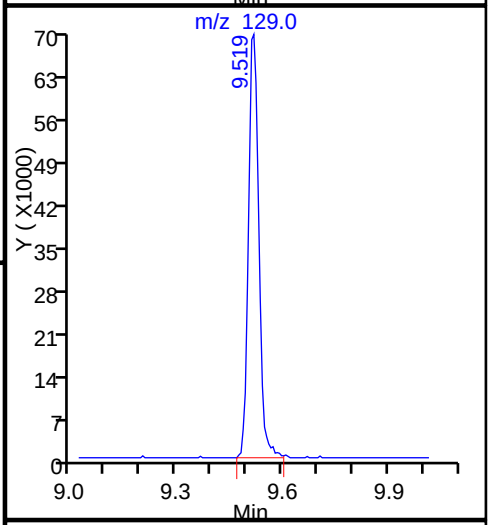
Injection Date:	16-Oct-2015 19:34:30	Instrument ID:	CHHP5		
Lims ID:	180-48435-C-1	Lab Sample ID:	180-48435-1		
Client ID:	HD-CW-9-0/1-0				
Operator ID:	001562	ALS Bottle#:	14	Worklist Smp#:	19
Purge Vol:	5.000 mL	Dil. Factor:	20.0000		
Method:	MSVOA_LL_CHHP5	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

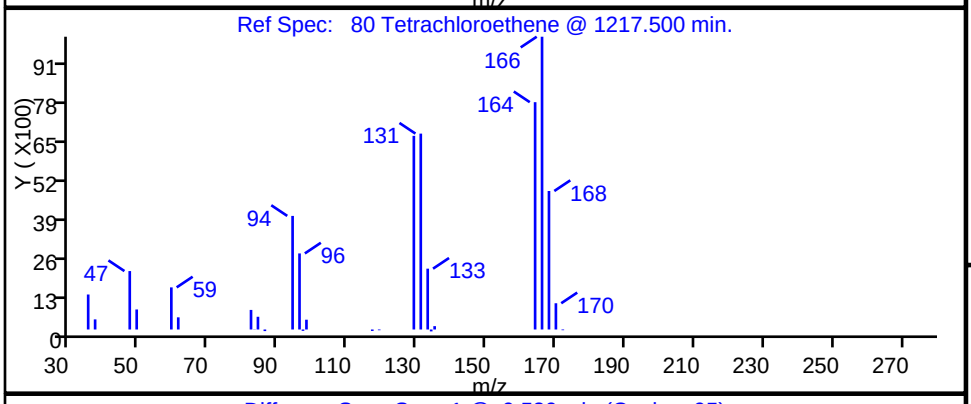
80 Tetrachloroethene, CAS: 127-18-4

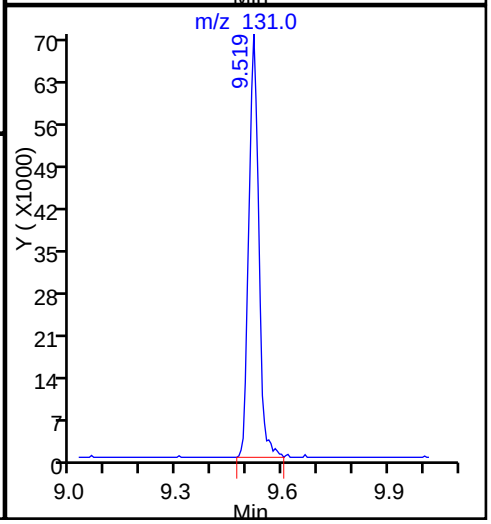


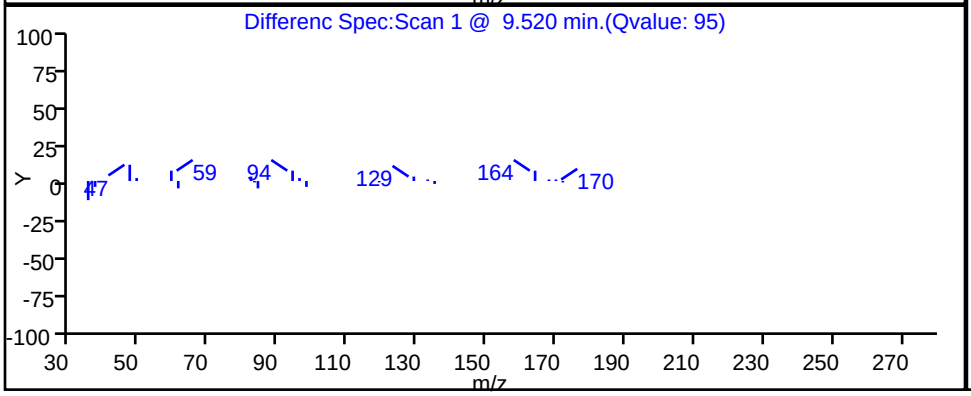












FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-48435-1

SDG No.:

Client Sample ID: HD-CW-13-0/1-0 | Lab Sample ID: 180-48435-2

Matrix: Water | Lab File ID: 51015018.D

Analysis Method: 8260C | Date Collected: 10/05/2015 06:30

Sample wt/vol: 5(mL) | Date Analyzed: 10/15/2015 19:12

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.: 157127 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	ND		25	7.1
75-01-4	Vinyl chloride	ND	^c	25	5.7
74-83-9	Bromomethane	ND	^c	25	7.8
75-00-3	Chloroethane	ND	^c	25	5.4
75-35-4	1,1-Dichloroethene	12	J	25	7.4
67-64-1	Acetone	ND	^c	130	63
75-15-0	Carbon disulfide	ND		25	5.3
75-09-2	Methylene Chloride	8.1	J	25	3.1
156-60-5	trans-1,2-Dichloroethene	ND		25	4.2
1634-04-4	Methyl tert-butyl ether	ND		25	4.6
75-34-3	1,1-Dichloroethane	5.9	J	25	2.9
156-59-2	cis-1,2-Dichloroethene	490		25	5.9
74-97-5	Bromochloromethane	ND		25	4.5
78-93-3	2-Butanone (MEK)	ND		130	14
67-66-3	Chloroform	ND		25	4.3
71-55-6	1,1,1-Trichloroethane	17	J	25	7.2
56-23-5	Carbon tetrachloride	ND		25	3.4
71-43-2	Benzene	ND		25	2.6
107-06-2	1,2-Dichloroethane	ND		25	5.3
79-01-6	Trichloroethene	200		25	3.6
78-87-5	1,2-Dichloropropane	ND		25	2.4
75-27-4	Bromodichloromethane	ND		25	3.3
10061-01-5	cis-1,3-Dichloropropene	ND		25	4.7
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		130	13
108-88-3	Toluene	ND		25	3.8
10061-02-6	trans-1,3-Dichloropropene	ND		25	3.7
79-00-5	1,1,2-Trichloroethane	ND		25	5.0
127-18-4	Tetrachloroethene	200		25	3.7
591-78-6	2-Hexanone	ND		130	4.0
124-48-1	Dibromochloromethane	ND		25	3.4
106-93-4	1,2-Dibromoethane (EDB)	ND		25	4.5
108-90-7	Chlorobenzene	ND		25	3.4
630-20-6	1,1,1,2-Tetrachloroethane	ND		25	6.9
100-41-4	Ethylbenzene	ND		25	5.7
1330-20-7	Xylenes, Total	ND		75	12
100-42-5	Styrene	ND		25	2.4

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-48435-1

SDG No.:

Client Sample ID: HD-CW-13-0/1-0 | Lab Sample ID: 180-48435-2

Matrix: Water | Lab File ID: 51015018.D

Analysis Method: 8260C | Date Collected: 10/05/2015 06:30

Sample wt/vol: 5(mL) | Date Analyzed: 10/15/2015 19:12

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.: 157127 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-25-2	Bromoform	ND		25	4.8
79-34-5	1,1,2,2-Tetrachloroethane	ND		25	5.0
107-13-1	Acrylonitrile	ND		500	14
123-91-1	1,4-Dioxane	ND	^c	5000	860

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		64-135
2037-26-5	Toluene-d8 (Surr)	105		71-118
460-00-4	4-Bromofluorobenzene (Surr)	94		70-118
1868-53-7	Dibromofluoromethane (Surr)	93		70-128

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151015-9022.b\51015018.D
Lims ID: 180-48435-A-2 Lab Sample ID: 180-48435-2
Client ID: HD-CW-13-0/1-0
Sample Type: Client
Inject. Date: 15-Oct-2015 19:12:30 ALS Bottle#: 17 Worklist Smp#: 18
Purge Vol: 5.000 mL Dil. Factor: 25.0000
Sample Info: 180-48435-A-2, 25x
Misc. Info.: 180-0009022-018
Operator ID: 001562 Instrument ID: CHHP5

Method: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151015-9022.b\MSVOA_LL_CHHP5.m
Limit Group: VOA 8260C ICAL
Last Update: 16-Oct-2015 08:17:47 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: XAWRK003

First Level Reviewer: fergusond Date: 16-Oct-2015 08:17:46

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.272	4.273	-0.001	0	128784	1000.0	
* 2 Fluorobenzene (IS)	96	7.290	7.290	0.000	98	321198	50.0	
* 3 Chlorobenzene-d5	119	10.392	10.386	0.006	90	70930	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.728	12.729	-0.001	97	94226	50.0	
$ 5 Dibromofluoromethane (Surr	113	6.566	6.554	0.012	92	73304	46.5	
$ 6 1,2-Dichloroethane-d4 (Sur	65	6.937	6.931	0.006	0	111925	51.7	
$ 7 Toluene-d8 (Surr)	98	8.938	8.939	-0.001	94	288304	52.7	
$ 8 4-Bromofluorobenzene (Surr	95	11.572	11.573	-0.001	88	97529	47.2	
12 Chloromethane	50		1.772				ND	
13 Vinyl chloride	62		1.912				ND	
15 Bromomethane	94		2.241				ND	
16 Chloroethane	64		2.399				ND	
22 1,1-Dichloroethene	96	3.402	3.330	0.072	29	4210	2.35	
24 Acetone	43		3.439				ND	
26 Carbon disulfide	76		3.640				ND	
31 Methylene Chloride	84	4.163	4.139	0.024	68	14609	1.61	
33 Acrylonitrile	53		4.522				ND	
34 trans-1,2-Dichloroethene	96	4.564	4.559	0.005	33	1094	0.5632	
35 Methyl tert-butyl ether	73		4.577				ND	
37 1,1-Dichloroethane	63	5.209	5.197	0.012	39	4536	1.19	
45 cis-1,2-Dichloroethene	96	5.957	5.946	0.011	85	203338	98.0	
46 2-Butanone (MEK)	43		5.952				ND	
49 Chlorobromomethane	128		6.231				ND	
52 Chloroform	83		6.377				ND	
53 1,1,1-Trichloroethane	97	6.547	6.536	0.011	85	8368	3.42	
56 Carbon tetrachloride	117		6.718				ND	
58 Benzene	78		6.943				ND	
59 1,2-Dichloroethane	62		7.016				ND	
64 Trichloroethene	130	7.685	7.673	0.012	95	77823	40.2	
67 1,2-Dichloropropane	63		7.947				ND	
70 1,4-Dioxane	88		8.026				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
71 Dichlorobromomethane	83		8.233				ND	
74 cis-1,3-Dichloropropene	75		8.671				ND	
75 4-Methyl-2-pentanone (MIBK	43		8.823				ND	
76 Toluene	91		9.006				ND	
77 trans-1,3-Dichloropropene	75		9.255				ND	
79 1,1,2-Trichloroethane	97		9.444				ND	
80 Tetrachloroethene	164	9.516	9.517	-0.001	96	54098	39.7	
82 2-Hexanone	43		9.663				ND	
84 Chlorodibromomethane	129		9.815				ND	
85 Ethylene Dibromide	107		9.930				ND	
87 Chlorobenzene	112		10.417				ND	
89 1,1,1,2-Tetrachloroethane	131		10.514				ND	
90 Ethylbenzene	106		10.520				ND	
91 m-Xylene & p-Xylene	106		10.654				ND	
92 o-Xylene	106		11.031				ND	
93 Styrene	104		11.050				ND	
94 Bromoform	173		11.232				ND	
99 1,1,2,2-Tetrachloroethane	83		11.707				ND	
S 133 Xylenes, Total	106		1.000				ND	

Reagents:

VOA8260INT_00043	Amount Added:	2.00	Units: uL	Run Reagent
VOA8260SURR_00043	Amount Added:	2.00	Units: uL	Run Reagent

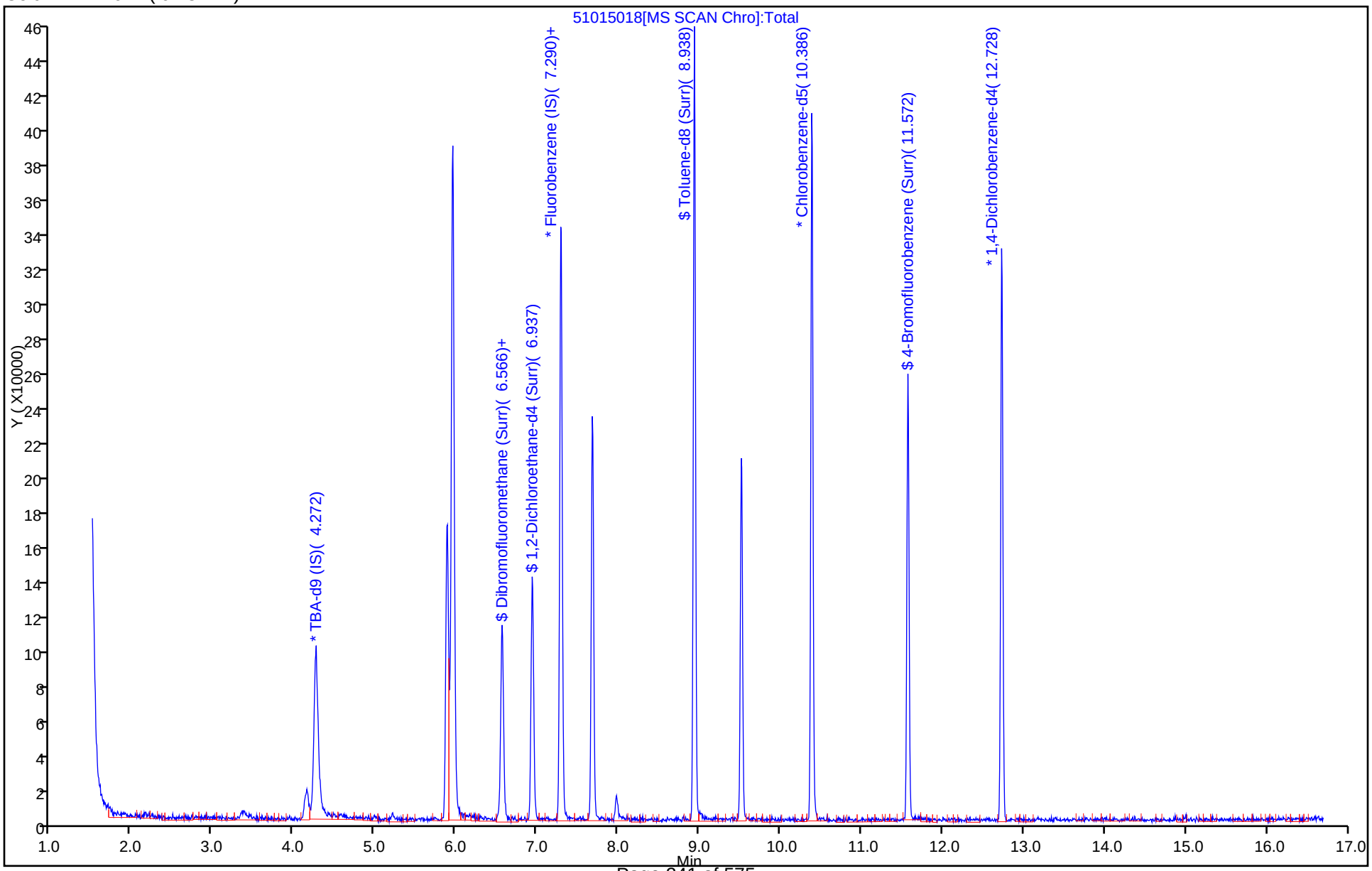
Report Date: 16-Oct-2015 08:17:47 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151015-9022.b\51015018.D

Injection Date:	15-Oct-2015 19:12:30	Instrument ID:	CHHP5	Operator ID:	001562
Lims ID:	180-48435-A-2	Lab Sample ID:	180-48435-2	Worklist Smp#:	18
Client ID:	HD-CW-13-0/1-0				
Purge Vol:	5.000 mL	Dil. Factor:	25.0000	ALS Bottle#:	17
Method:	MSVOA_LL_CHHP5	Limit Group:	VOA 8260C ICAL		

Column: DB-624 (0.18 mm)



Report Date: 16-Oct-2015 08:17:47 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151015-9022.b\51015018.D

Injection Date: 15-Oct-2015 19:12:30 Instrument ID: CHHP5

Lims ID: 180-48435-A-2 Lab Sample ID: 180-48435-2

Client ID: HD-CW-13-0/1-0

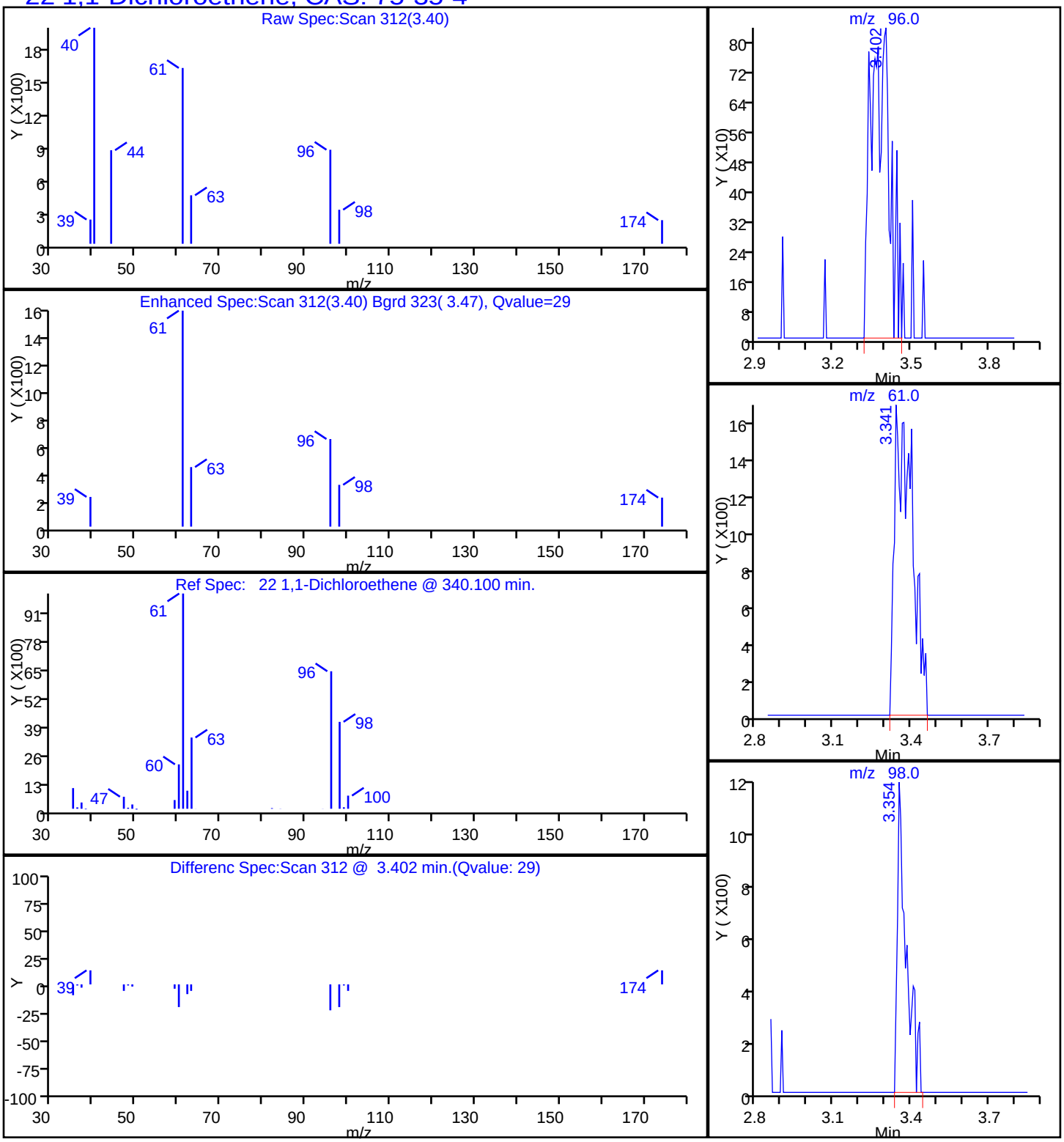
Operator ID: 001562 ALS Bottle#: 17 Worklist Smp#: 18

Purge Vol: 5.000 mL Dil. Factor: 25.0000

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



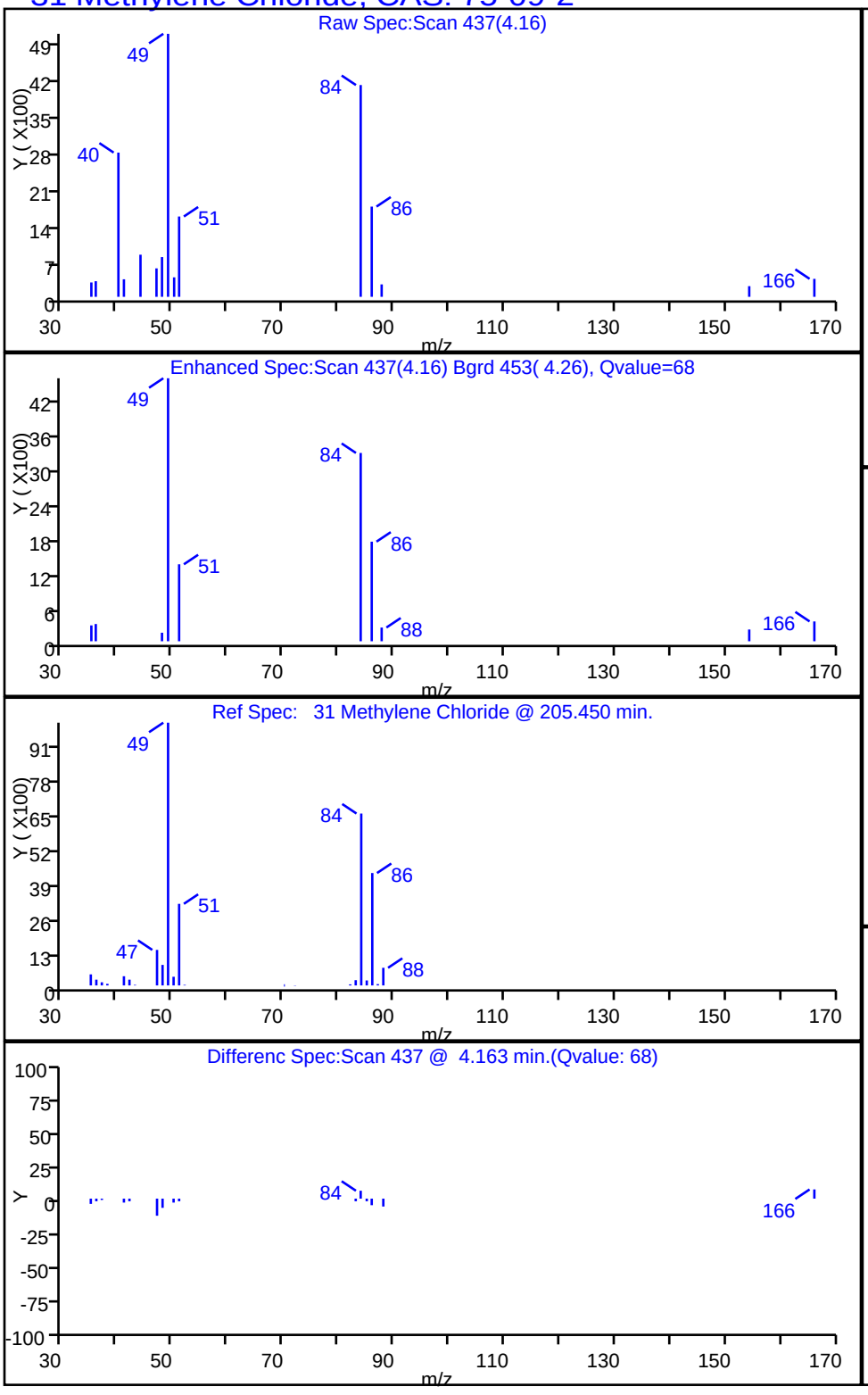
Report Date: 16-Oct-2015 08:17:48 Chrom Revision: 2.2 08-Sep-2015 13:41:46

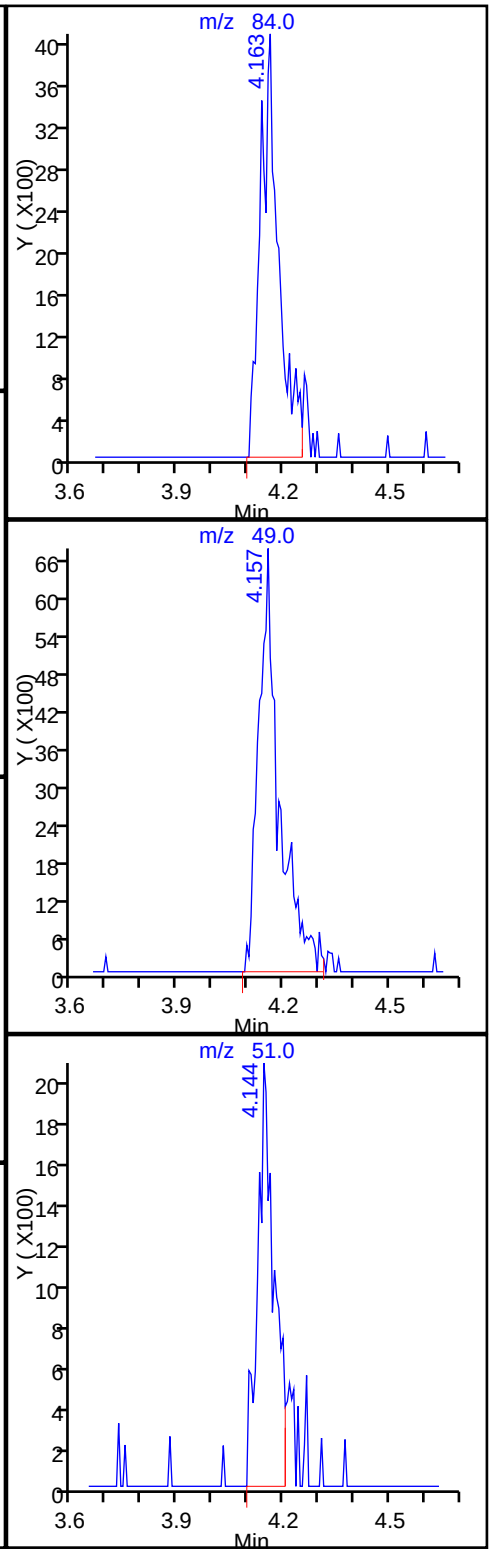
TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151015-9022.b\51015018.D

Injection Date:	15-Oct-2015 19:12:30	Instrument ID:	CHHP5		
Lims ID:	180-48435-A-2	Lab Sample ID:	180-48435-2		
Client ID:	HD-CW-13-0/1-0				
Operator ID:	001562	ALS Bottle#:	17	Worklist Smp#:	18
Purge Vol:	5.000 mL	Dil. Factor:	25.0000		
Method:	MSVOA_LL_CHHP5	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

31 Methylene Chloride, CAS: 75-09-2





Report Date: 16-Oct-2015 08:17:48 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151015-9022.b\51015018.D

Injection Date: 15-Oct-2015 19:12:30 Instrument ID: CHHP5

Lims ID: 180-48435-A-2 Lab Sample ID: 180-48435-2

Client ID: HD-CW-13-0/1-0

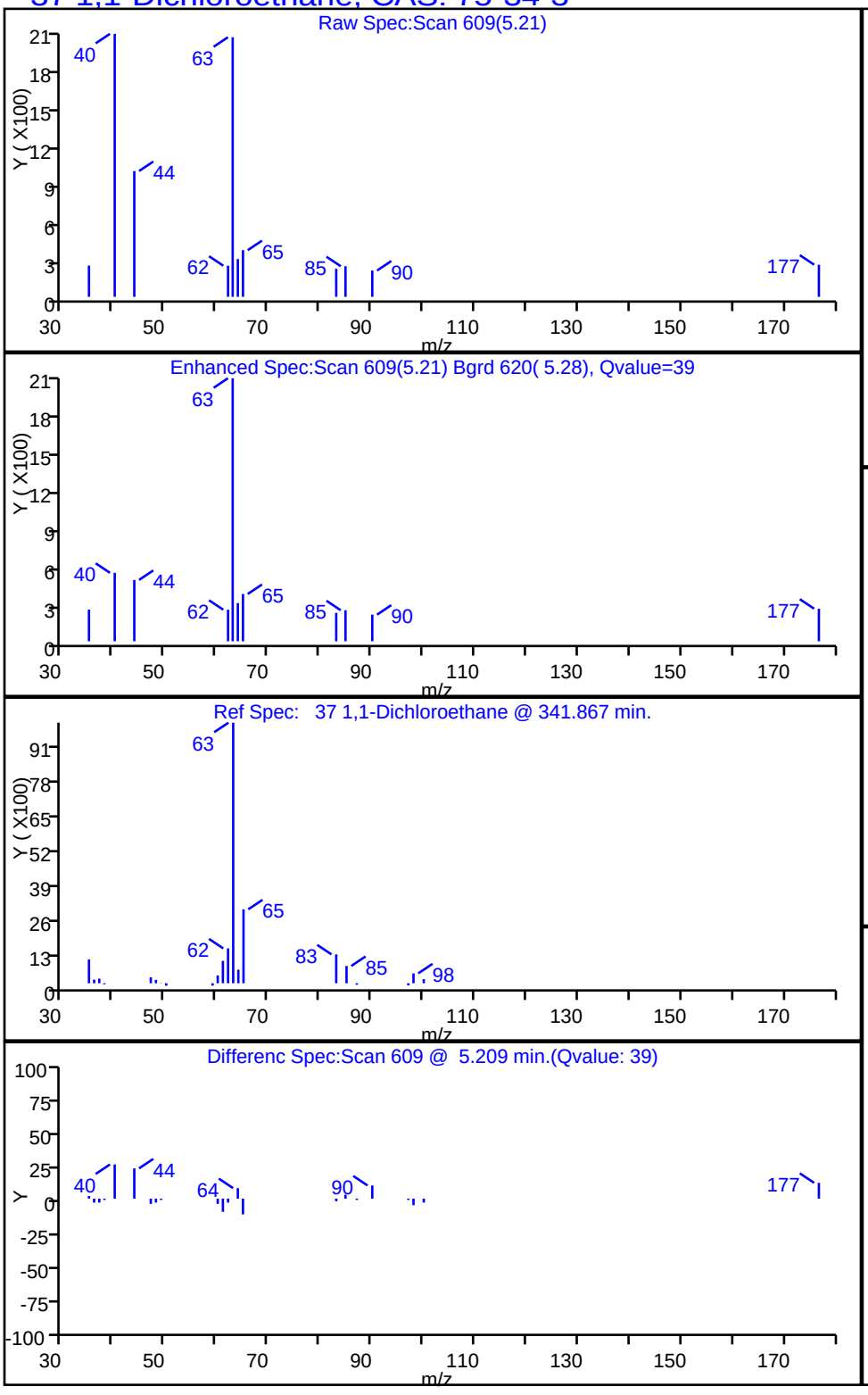
Operator ID: 001562 ALS Bottle#: 17 Worklist Smp#: 18

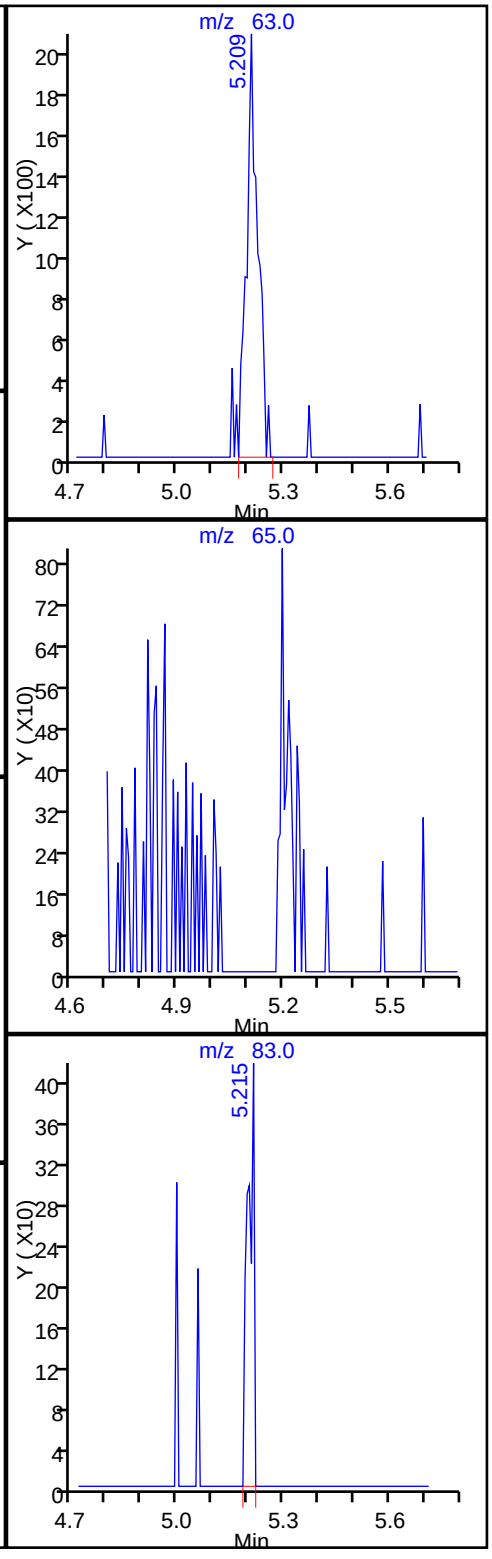
Purge Vol: 5.000 mL Dil. Factor: 25.0000

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





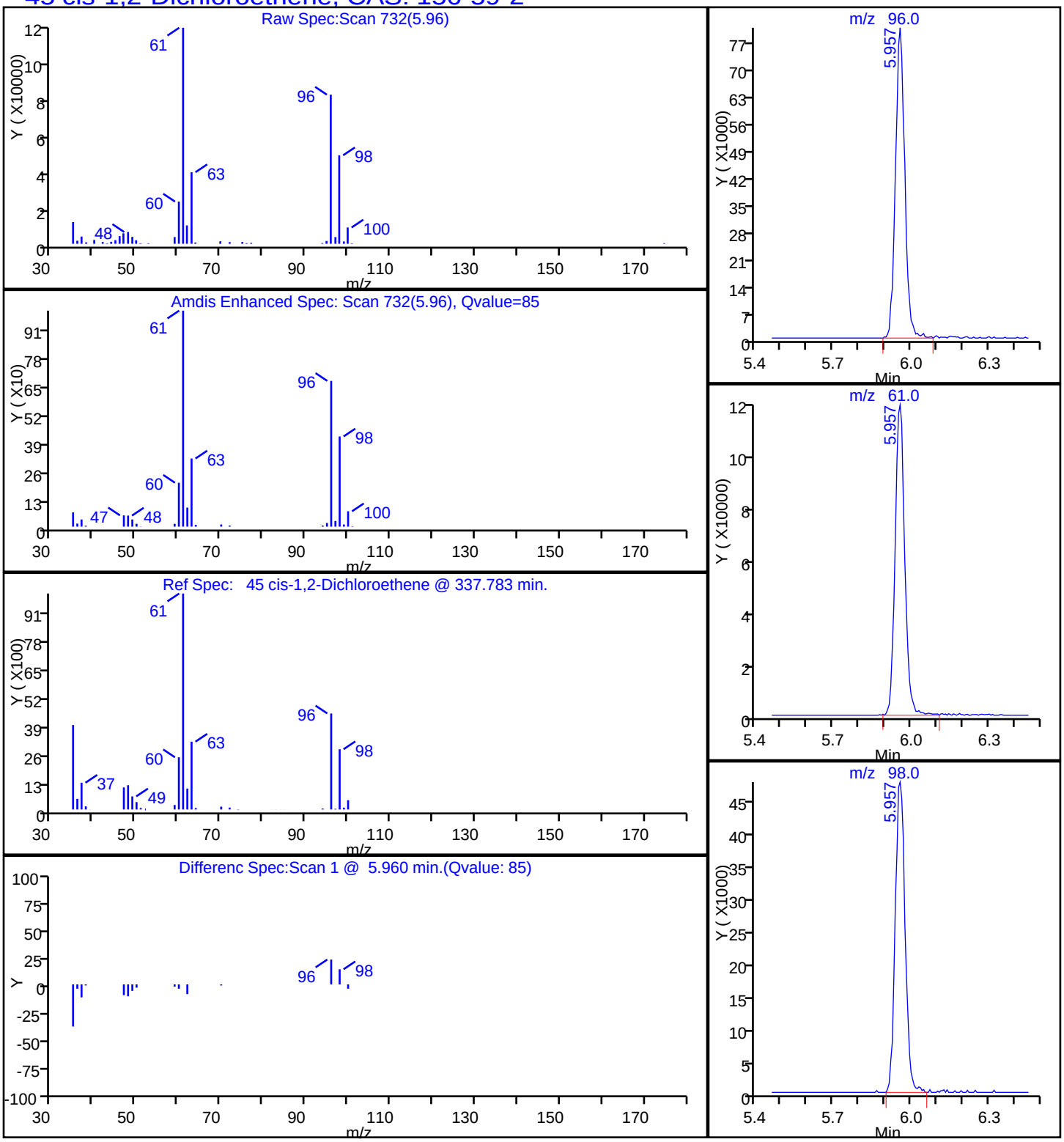
Report Date: 16-Oct-2015 08:17:48 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151015-9022.b\51015018.D

Injection Date:	15-Oct-2015 19:12:30	Instrument ID:	CHHP5		
Lims ID:	180-48435-A-2	Lab Sample ID:	180-48435-2		
Client ID:	HD-CW-13-0/1-0				
Operator ID:	001562	ALS Bottle#:	17	Worklist Smp#:	18
Purge Vol:	5.000 mL	Dil. Factor:	25.0000		
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



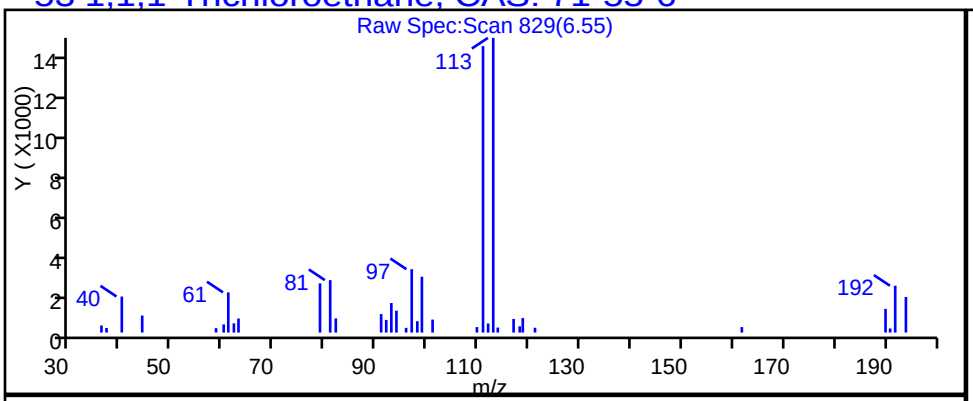
Report Date: 16-Oct-2015 08:17:48 Chrom Revision: 2.2 08-Sep-2015 13:41:46

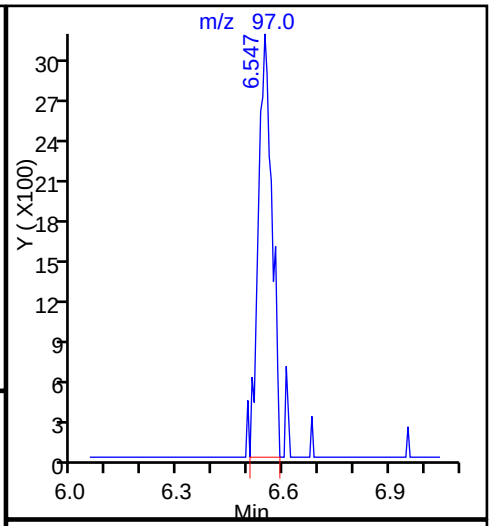
TestAmerica Pittsburgh

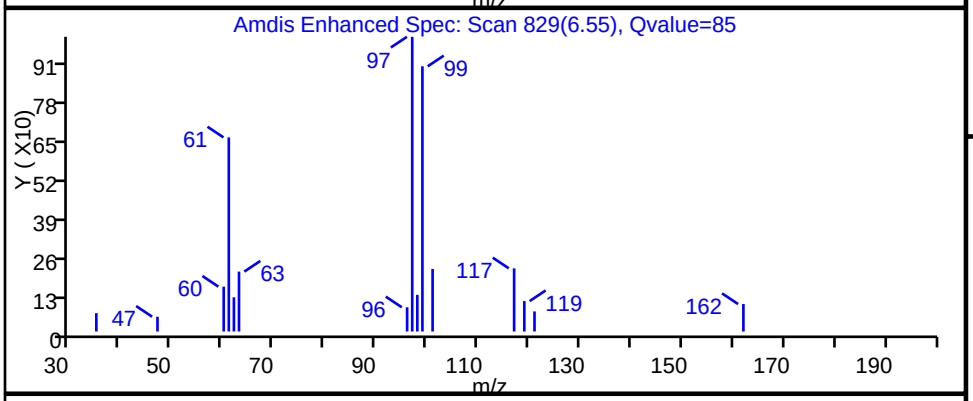
Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151015-9022.b\51015018.D

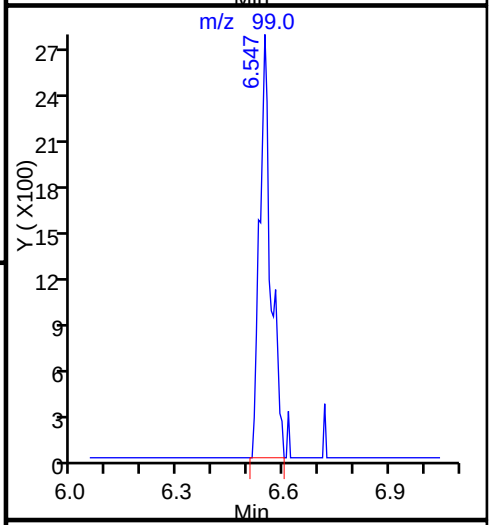
Injection Date:	15-Oct-2015 19:12:30	Instrument ID:	CHHP5
Lims ID:	180-48435-A-2	Lab Sample ID:	180-48435-2
Client ID:	HD-CW-13-0/1-0		
Operator ID:	001562	ALS Bottle#:	17 Worklist Smp#: 18
Purge Vol:	5.000 mL	Dil. Factor:	25.0000
Method:	MSVOA_LL_CHHP5	Limit Group:	VOA 8260C ICAL
Column:	DB-624 (0.18 mm)	Detector	MS SCAN

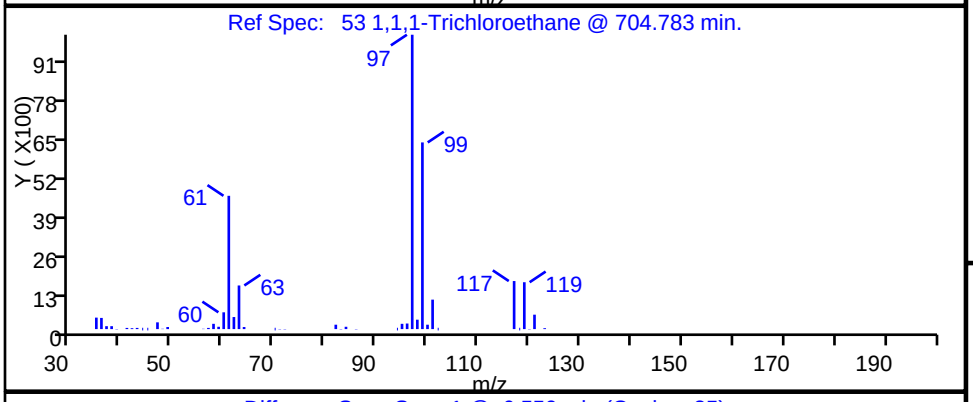
53 1,1,1-Trichloroethane, CAS: 71-55-6

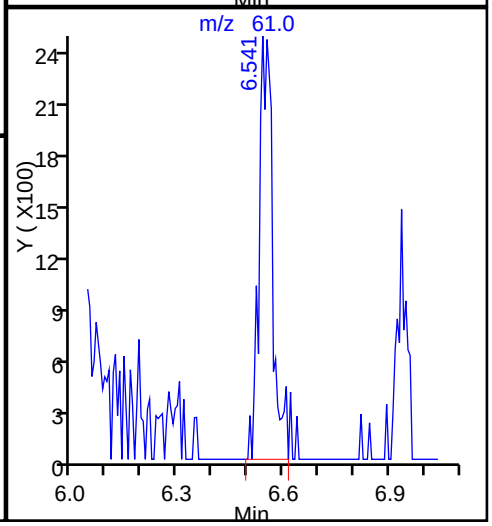


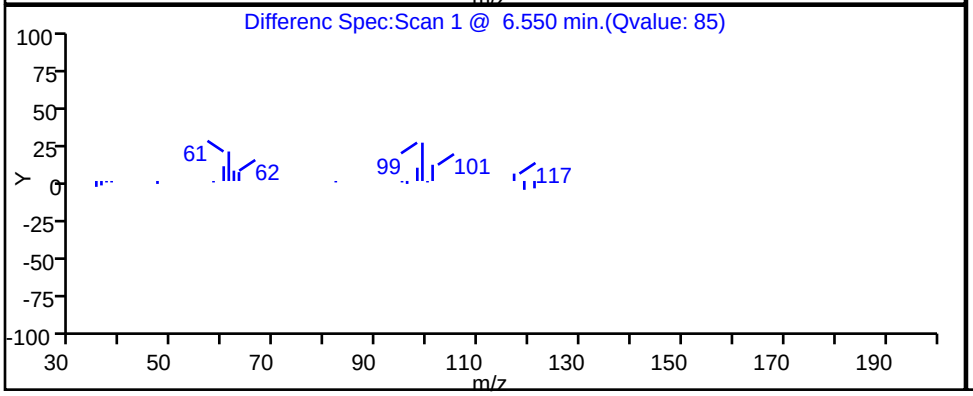












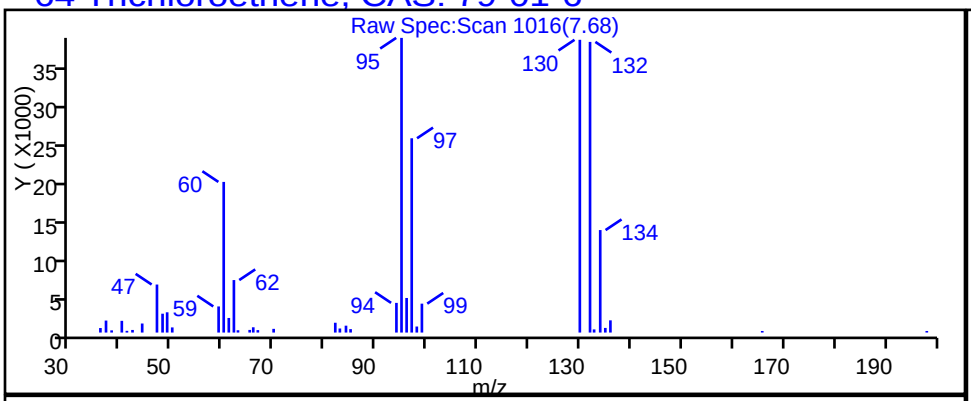
Report Date: 16-Oct-2015 08:17:48 Chrom Revision: 2.2 08-Sep-2015 13:41:46

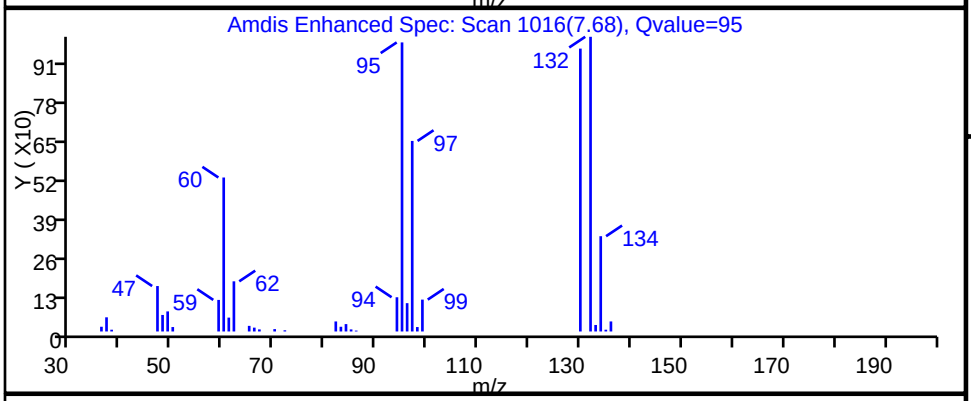
TestAmerica Pittsburgh

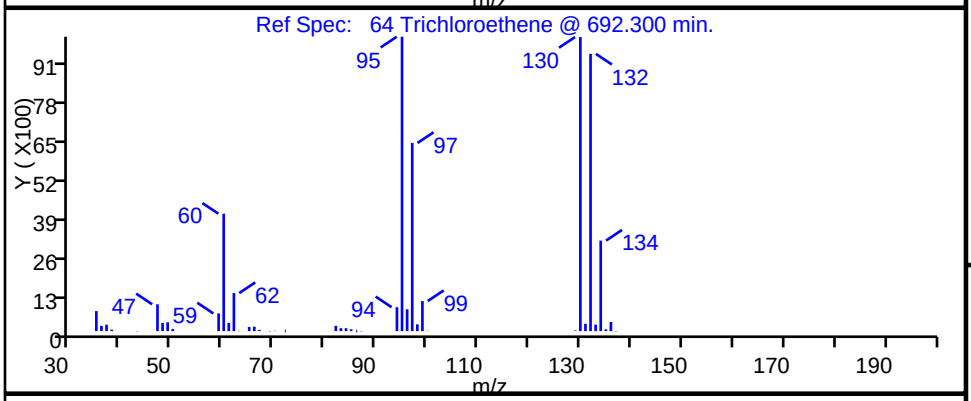
Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151015-9022.b\51015018.D

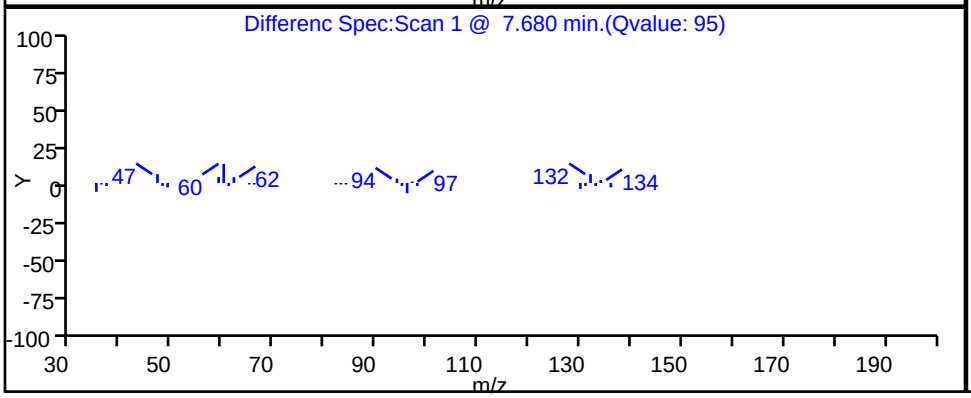
Injection Date:	15-Oct-2015 19:12:30	Instrument ID:	CHHP5		
Lims ID:	180-48435-A-2	Lab Sample ID:	180-48435-2		
Client ID:	HD-CW-13-0/1-0				
Operator ID:	001562	ALS Bottle#:	17	Worklist Smp#:	18
Purge Vol:	5.000 mL	Dil. Factor:	25.0000		
Method:	MSVOA_LL_CHHP5	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

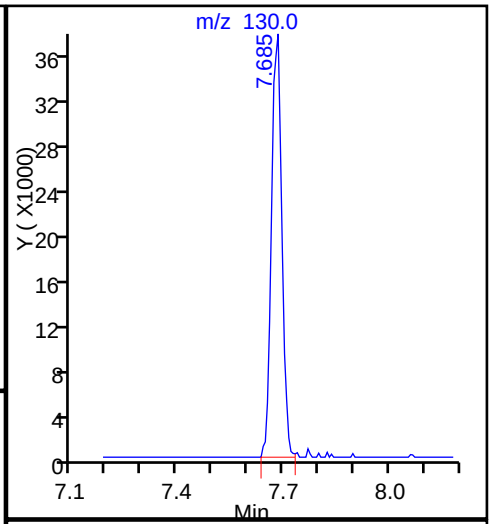
64 Trichloroethene, CAS: 79-01-6

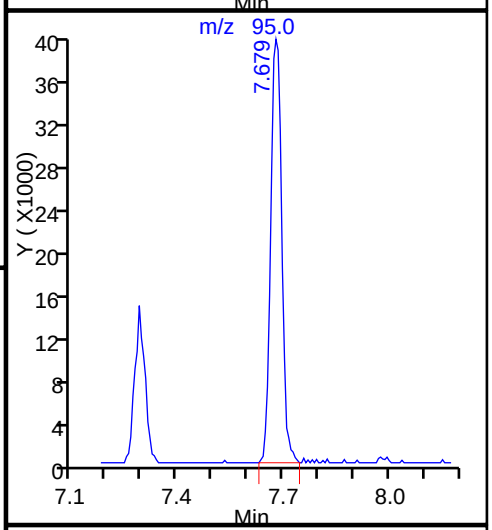


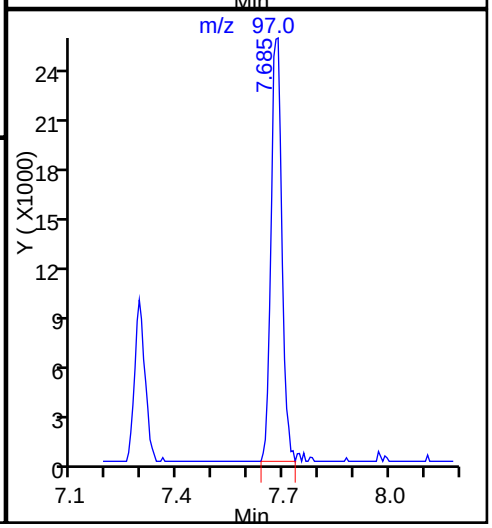












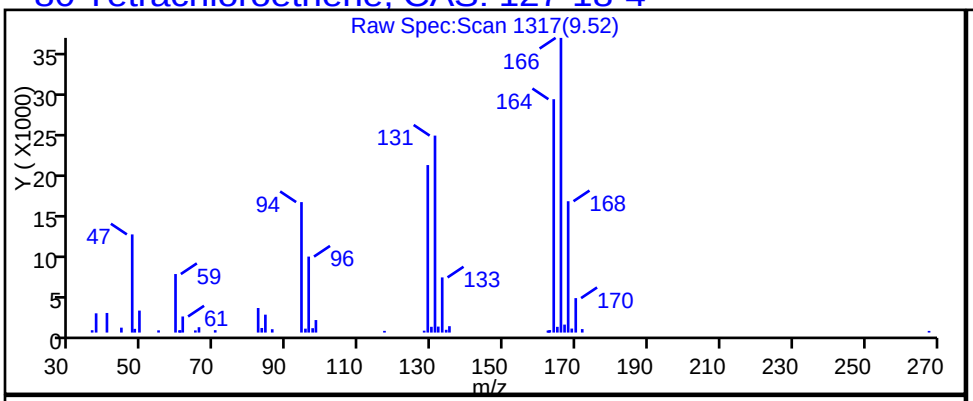
Report Date: 16-Oct-2015 08:17:48 Chrom Revision: 2.2 08-Sep-2015 13:41:46

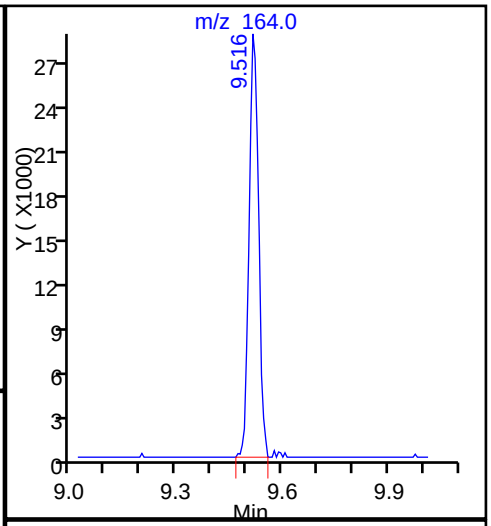
TestAmerica Pittsburgh

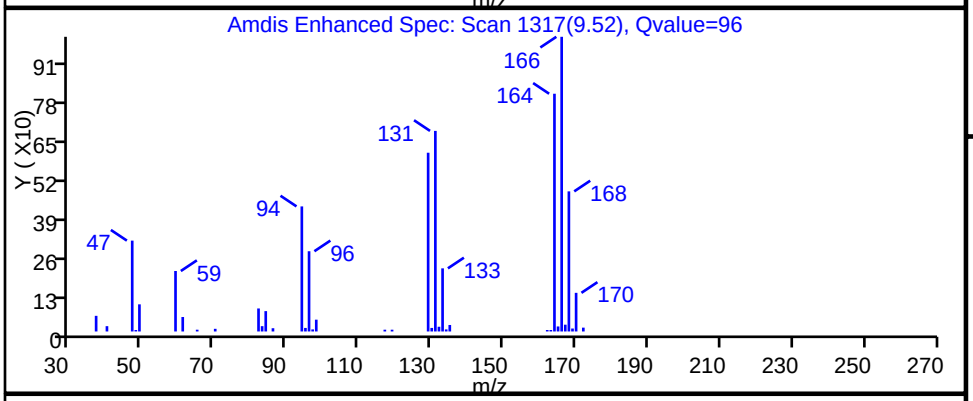
Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151015-9022.b\51015018.D

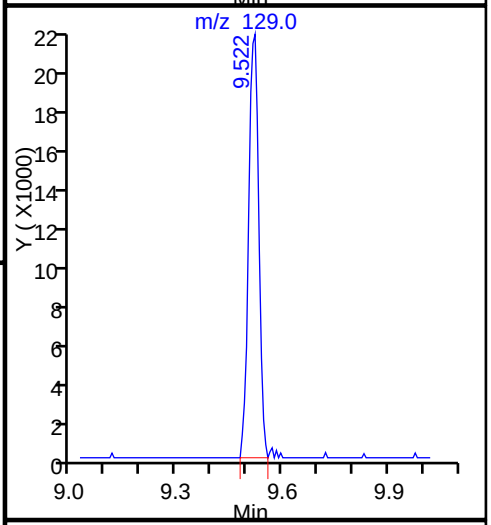
Injection Date:	15-Oct-2015 19:12:30	Instrument ID:	CHHP5
Lims ID:	180-48435-A-2	Lab Sample ID:	180-48435-2
Client ID:	HD-CW-13-0/1-0		
Operator ID:	001562	ALS Bottle#:	17 Worklist Smp#: 18
Purge Vol:	5.000 mL	Dil. Factor:	25.0000
Method:	MSVOA_LL_CHHP5	Limit Group:	VOA 8260C ICAL
Column:	DB-624 (0.18 mm)	Detector	MS SCAN

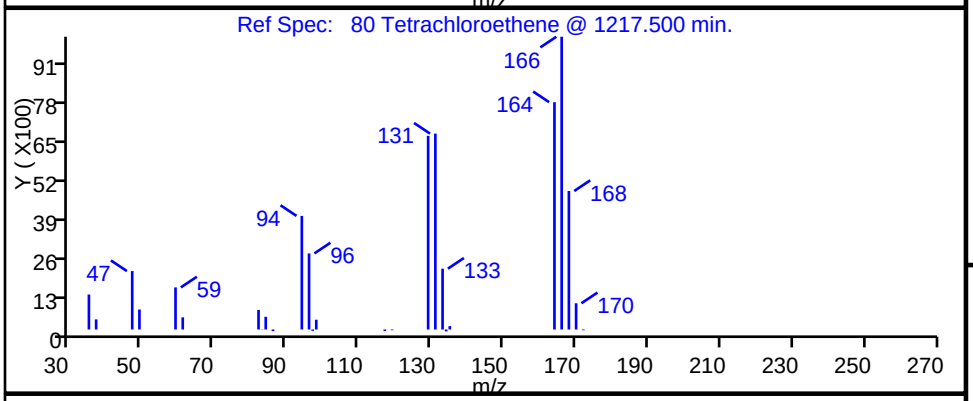
80 Tetrachloroethene, CAS: 127-18-4

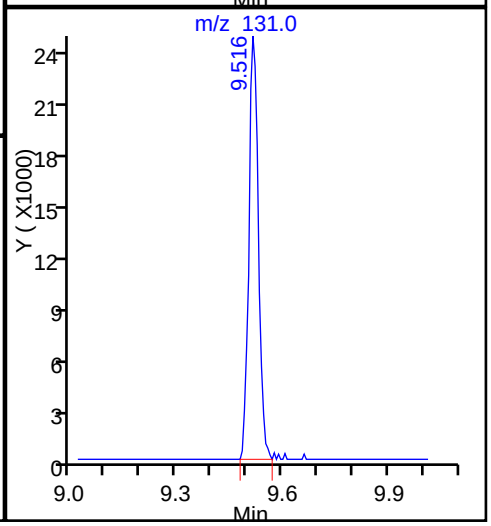


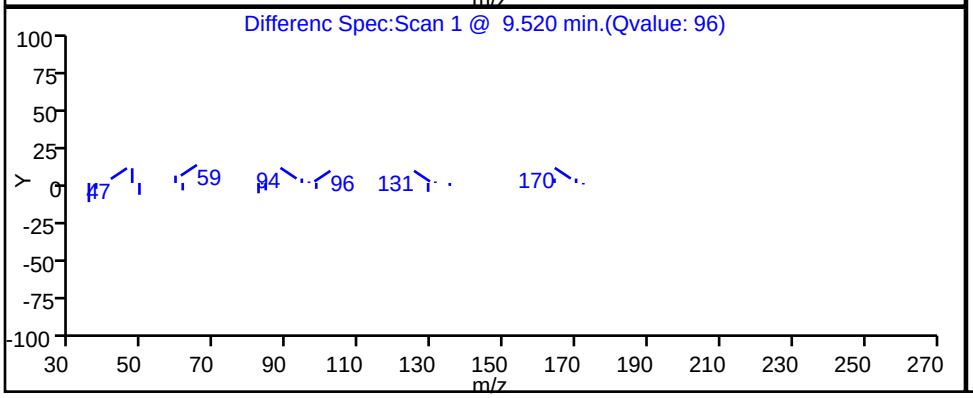












FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-48435-1

SDG No.:

Client Sample ID: HD-CW-15A-0/1-0 | Lab Sample ID: 180-48435-3

Matrix: Water | Lab File ID: 51015019.D

Analysis Method: 8260C | Date Collected: 10/05/2015 06:15

Sample wt/vol: 5(mL) | Date Analyzed: 10/15/2015 19:36

Soil Aliquot Vol: | Dilution Factor: 500

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 157127 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	ND		500	140
75-01-4	Vinyl chloride	ND	^c	500	110
74-83-9	Bromomethane	ND	^c	500	160
75-00-3	Chloroethane	ND	^c	500	110
75-35-4	1,1-Dichloroethene	2400		500	150
67-64-1	Acetone	ND	^c	2500	1300
75-15-0	Carbon disulfide	ND		500	110
75-09-2	Methylene Chloride	200	J	500	63
156-60-5	trans-1,2-Dichloroethene	ND		500	85
1634-04-4	Methyl tert-butyl ether	ND		500	92
75-34-3	1,1-Dichloroethane	190	J	500	58
156-59-2	cis-1,2-Dichloroethene	11000		500	120
74-97-5	Bromochloromethane	ND		500	90
78-93-3	2-Butanone (MEK)	ND		2500	270
67-66-3	Chloroform	ND		500	85
71-55-6	1,1,1-Trichloroethane	12000		500	140
56-23-5	Carbon tetrachloride	ND		500	68
71-43-2	Benzene	ND		500	53
107-06-2	1,2-Dichloroethane	ND		500	110
79-01-6	Trichloroethene	4800		500	72
78-87-5	1,2-Dichloropropane	ND		500	47
75-27-4	Bromodichloromethane	ND		500	65
10061-01-5	cis-1,3-Dichloropropene	ND		500	93
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		2500	260
108-88-3	Toluene	ND		500	75
10061-02-6	trans-1,3-Dichloropropene	ND		500	74
79-00-5	1,1,2-Trichloroethane	ND		500	100
127-18-4	Tetrachloroethene	1700		500	74
591-78-6	2-Hexanone	ND		2500	80
124-48-1	Dibromochloromethane	ND		500	68
106-93-4	1,2-Dibromoethane (EDB)	ND		500	90
108-90-7	Chlorobenzene	ND		500	68
630-20-6	1,1,1,2-Tetrachloroethane	ND		500	140
100-41-4	Ethylbenzene	ND		500	110
1330-20-7	Xylenes, Total	ND		1500	240
100-42-5	Styrene	ND		500	48

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-48435-1

SDG No.:

Client Sample ID: HD-CW-15A-0/1-0 | Lab Sample ID: 180-48435-3

Matrix: Water | Lab File ID: 51015019.D

Analysis Method: 8260C | Date Collected: 10/05/2015 06:15

Sample wt/vol: 5(mL) | Date Analyzed: 10/15/2015 19:36

Soil Aliquot Vol: | Dilution Factor: 500

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 157127 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-25-2	Bromoform	ND		500	96
79-34-5	1,1,2,2-Tetrachloroethane	ND		500	100
107-13-1	Acrylonitrile	ND		10000	270
123-91-1	1,4-Dioxane	ND	^c	100000	17000

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		64-135
2037-26-5	Toluene-d8 (Surr)	104		71-118
460-00-4	4-Bromofluorobenzene (Surr)	94		70-118
1868-53-7	Dibromofluoromethane (Surr)	93		70-128

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151015-9022.b\51015019.D
Lims ID: 180-48435-A-3 Lab Sample ID: 180-48435-3
Client ID: HD-CW-15A-0/1-0
Sample Type: Client
Inject. Date: 15-Oct-2015 19:36:30 ALS Bottle#: 18 Worklist Smp#: 19
Purge Vol: 5.000 mL Dil. Factor: 500.0000
Sample Info: 180-48435-A-3, 500x
Misc. Info.: 180-0009022-019
Operator ID: 001562 Instrument ID: CHHP5

Method: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151015-9022.b\MSVOA_LL_CHHP5.m
Limit Group: VOA 8260C ICAL
Last Update: 16-Oct-2015 08:22:24 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: XAWRK003

First Level Reviewer: fergusond Date: 16-Oct-2015 08:22:24

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.273	4.273	0.000	0	144886	1000.0	
* 2 Fluorobenzene (IS)	96	7.290	7.290	0.000	97	331370	50.0	
* 3 Chlorobenzene-d5	119	10.386	10.386	0.000	91	74092	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.735	12.729	0.006	97	97953	50.0	
$ 5 Dibromofluoromethane (Surr	113	6.566	6.554	0.012	93	75806	46.6	
$ 6 1,2-Dichloroethane-d4 (Sur	65	6.931	6.931	0.000	0	111660	50.0	
$ 7 Toluene-d8 (Surr)	98	8.939	8.939	0.000	94	295944	51.8	
$ 8 4-Bromofluorobenzene (Surr	95	11.573	11.573	0.000	86	101070	46.9	
12 Chloromethane	50		1.772				ND	
13 Vinyl chloride	62		1.912				ND	
15 Bromomethane	94		2.241				ND	
16 Chloroethane	64		2.399				ND	
22 1,1-Dichloroethene	96	3.360	3.330	0.030	91	43459	23.5	
24 Acetone	43	3.457	3.439	0.018	34	2018	3.02	M
26 Carbon disulfide	76		3.640				ND	
31 Methylene Chloride	84	4.139	4.139	0.000	60	15880	2.03	
33 Acrylonitrile	53		4.522				ND	
34 trans-1,2-Dichloroethene	96		4.559				ND	
35 Methyl tert-butyl ether	73		4.577				ND	
37 1,1-Dichloroethane	63	5.209	5.197	0.012	94	7361	1.86	
45 cis-1,2-Dichloroethene	96	5.952	5.946	0.006	83	225049	105.1	
46 2-Butanone (MEK)	43		5.952				ND	
49 Chlorobromomethane	128		6.231				ND	
52 Chloroform	83		6.377				ND	
53 1,1,1-Trichloroethane	97	6.548	6.536	0.012	94	293174	116.2	
56 Carbon tetrachloride	117		6.718				ND	
58 Benzene	78		6.943				ND	
59 1,2-Dichloroethane	62		7.016				ND	
64 Trichloroethene	130	7.679	7.673	0.006	96	95183	47.6	
67 1,2-Dichloropropane	63		7.947				ND	
70 1,4-Dioxane	88		8.026				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
71 Dichlorobromomethane	83		8.233				ND	
74 cis-1,3-Dichloropropene	75		8.671				ND	
75 4-Methyl-2-pentanone (MIBK	43		8.823				ND	
76 Toluene	91		9.006				ND	
77 trans-1,3-Dichloropropene	75		9.255				ND	
79 1,1,2-Trichloroethane	97		9.444				ND	
80 Tetrachloroethene	164	9.523	9.517	0.006	96	24905	17.5	
82 2-Hexanone	43		9.663				ND	
84 Chlorodibromomethane	129		9.815				ND	
85 Ethylene Dibromide	107		9.930				ND	
87 Chlorobenzene	112		10.417				ND	
89 1,1,1,2-Tetrachloroethane	131		10.514				ND	
90 Ethylbenzene	106		10.520				ND	
91 m-Xylene & p-Xylene	106		10.654				ND	
92 o-Xylene	106		11.031				ND	
93 Styrene	104		11.050				ND	
94 Bromoform	173		11.232				ND	
99 1,1,2,2-Tetrachloroethane	83		11.707				ND	
S 133 Xylenes, Total	106		1.000				ND	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

VOA8260INT_00043	Amount Added:	2.00	Units: uL	Run Reagent
VOA8260SURR_00043	Amount Added:	2.00	Units: uL	Run Reagent

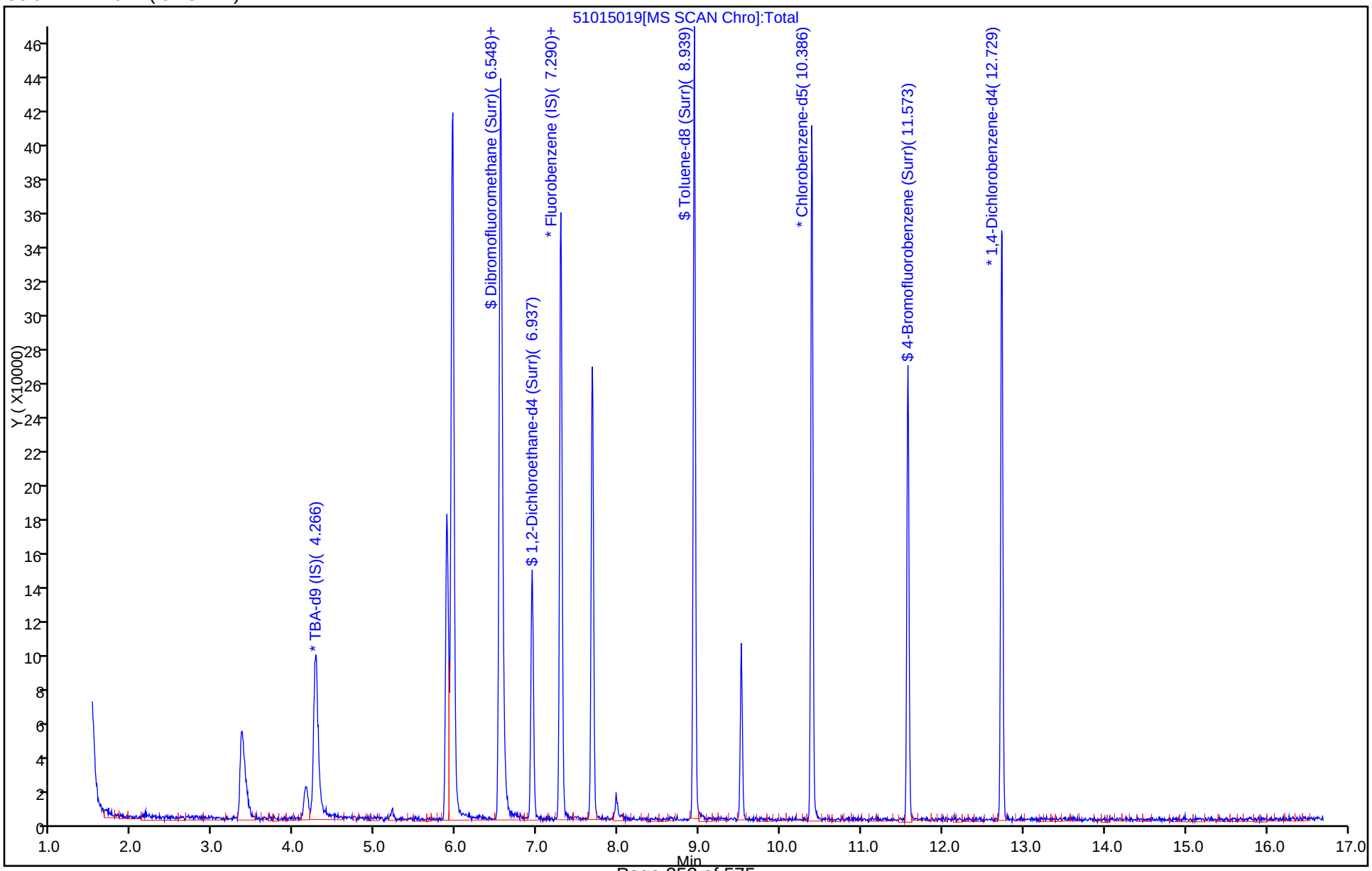
Report Date: 16-Oct-2015 08:22:24 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151015-9022.b\51015019.D

Injection Date:	15-Oct-2015 19:36:30	Instrument ID:	CHHP5	Operator ID:	001562
Lims ID:	180-48435-A-3	Lab Sample ID:	180-48435-3	Worklist Smp#:	19
Client ID:	HD-CW-15A-0/1-0				
Purge Vol:	5.000 mL	Dil. Factor:	500.0000	ALS Bottle#:	18
Method:	MSVOA_LL_CHHP5	Limit Group:	VOA 8260C ICAL		

Column: DB-624 (0.18 mm)



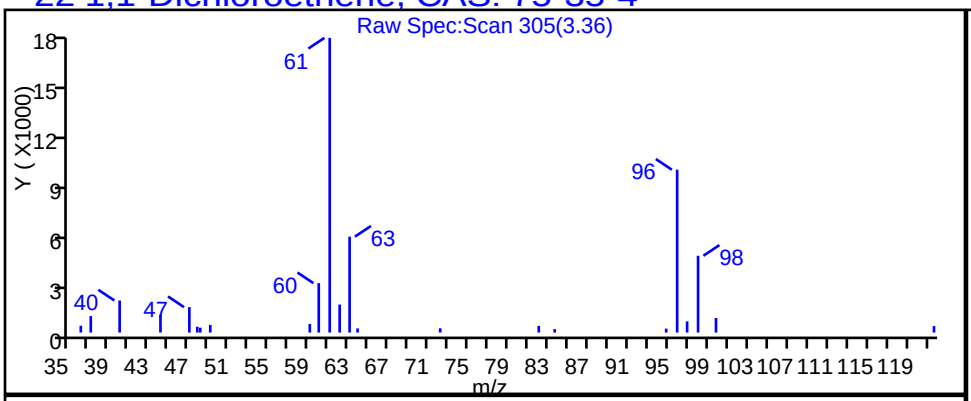
Report Date: 16-Oct-2015 08:22:24 Chrom Revision: 2.2 08-Sep-2015 13:41:46

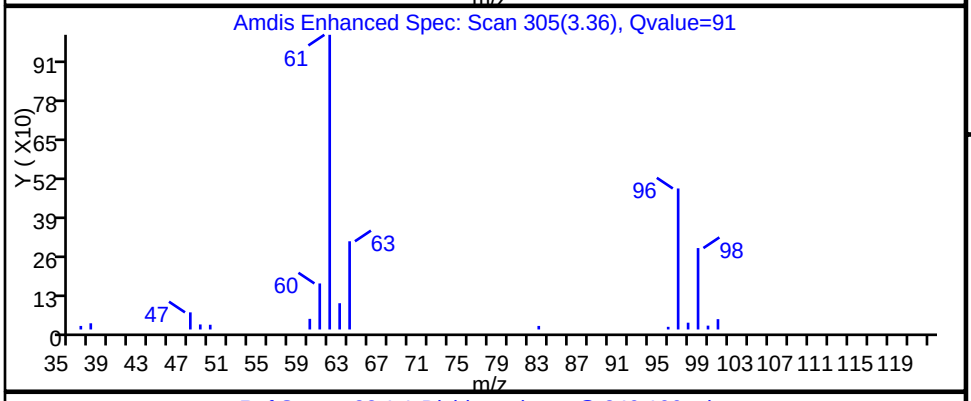
TestAmerica Pittsburgh

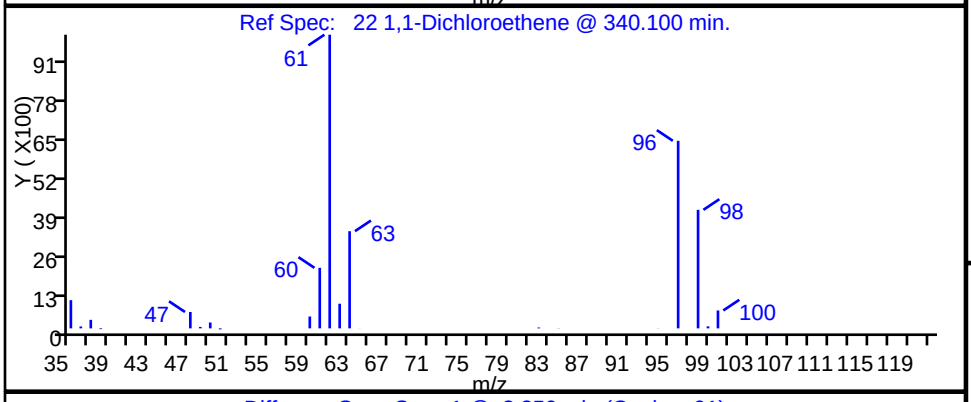
Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151015-9022.b\51015019.D

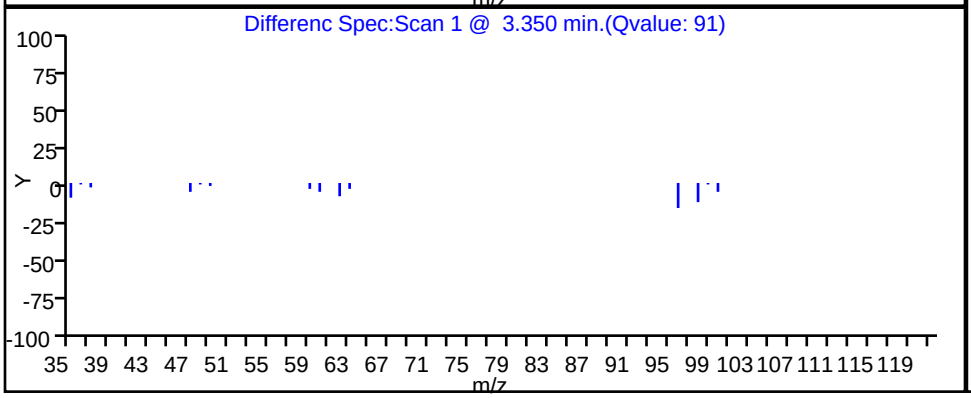
Injection Date:	15-Oct-2015 19:36:30	Instrument ID:	CHHP5		
Lims ID:	180-48435-A-3	Lab Sample ID:	180-48435-3		
Client ID:	HD-CW-15A-0/1-0				
Operator ID:	001562	ALS Bottle#:	18	Worklist Smp#:	19
Purge Vol:	5.000 mL	Dil. Factor:	500.0000		
Method:	MSVOA_LL_CHHP5	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

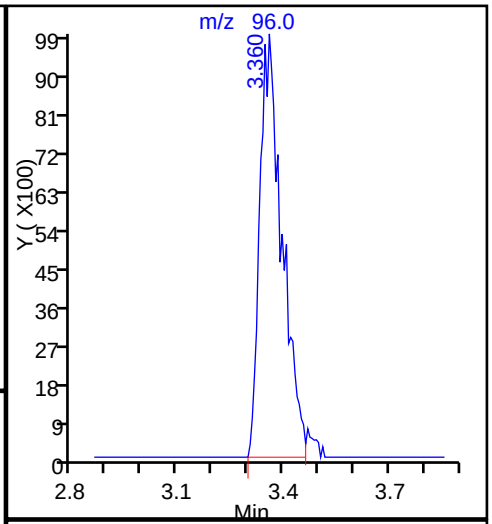
22 1,1-Dichloroethene, CAS: 75-35-4

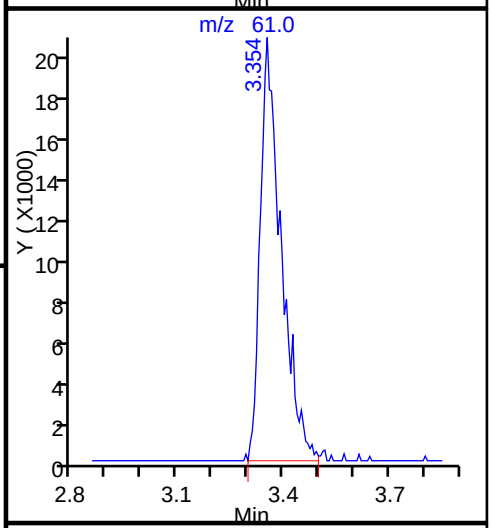


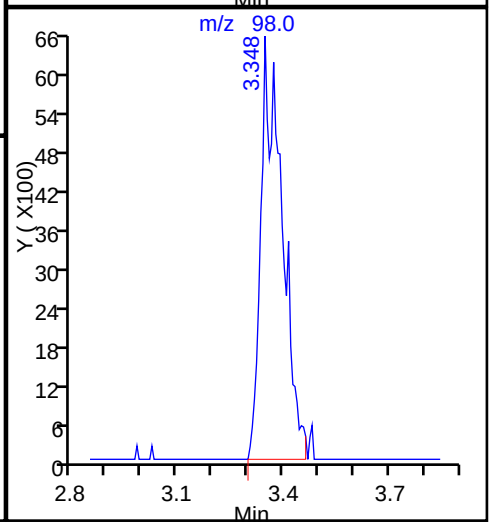












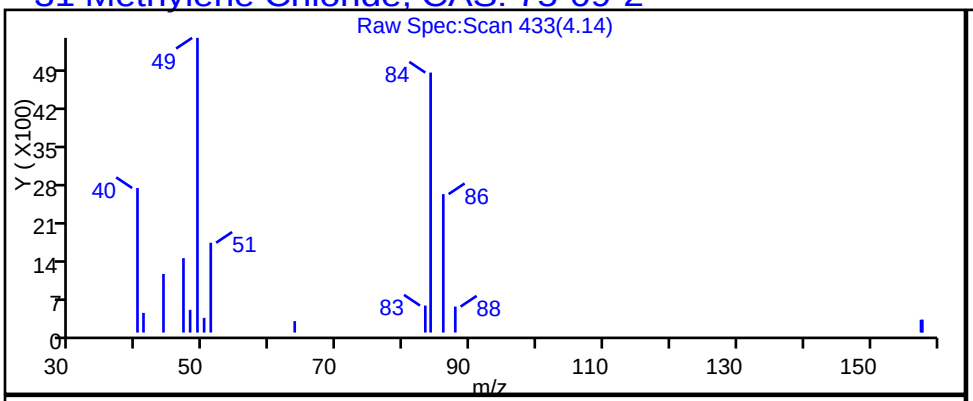
Report Date: 16-Oct-2015 08:22:24 Chrom Revision: 2.2 08-Sep-2015 13:41:46

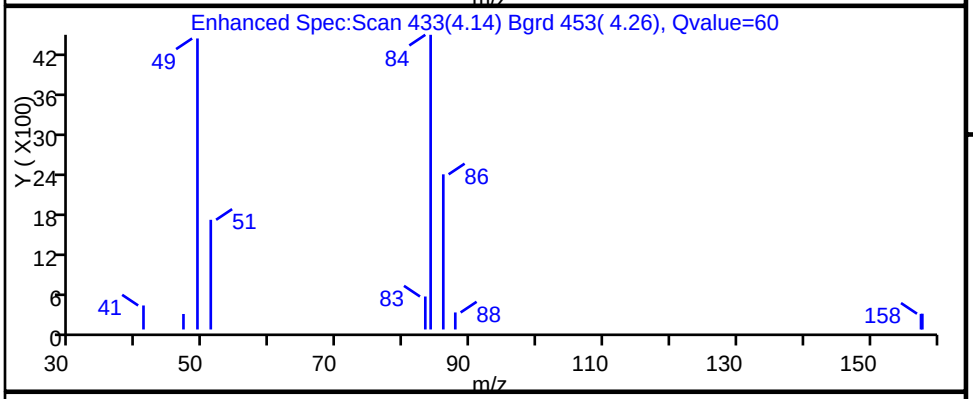
TestAmerica Pittsburgh

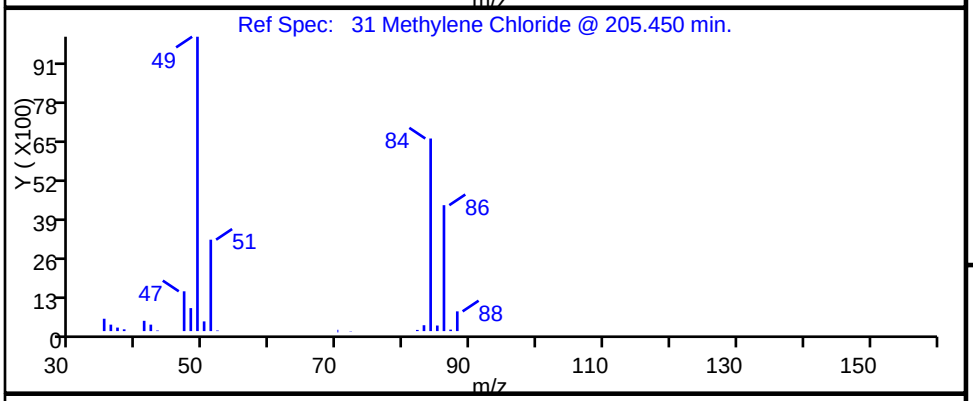
Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151015-9022.b\51015019.D

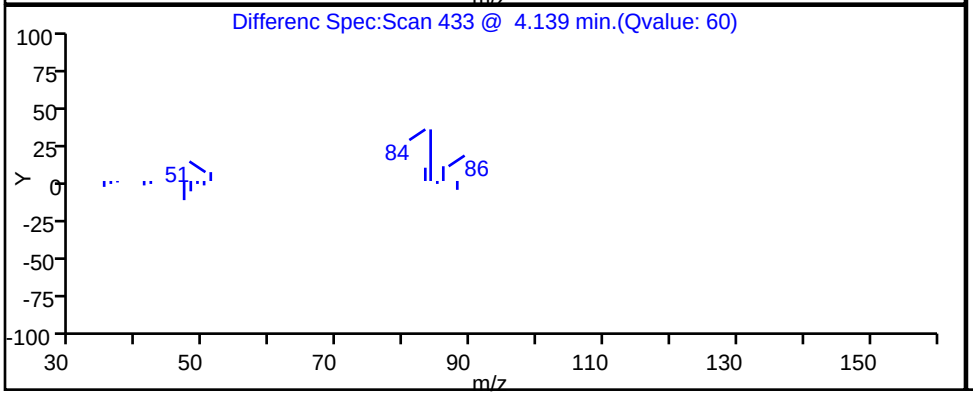
Injection Date:	15-Oct-2015 19:36:30	Instrument ID:	CHHP5		
Lims ID:	180-48435-A-3	Lab Sample ID:	180-48435-3		
Client ID:	HD-CW-15A-0/1-0				
Operator ID:	001562	ALS Bottle#:	18	Worklist Smp#:	19
Purge Vol:	5.000 mL	Dil. Factor:	500.0000		
Method:	MSVOA_LL_CHHP5	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

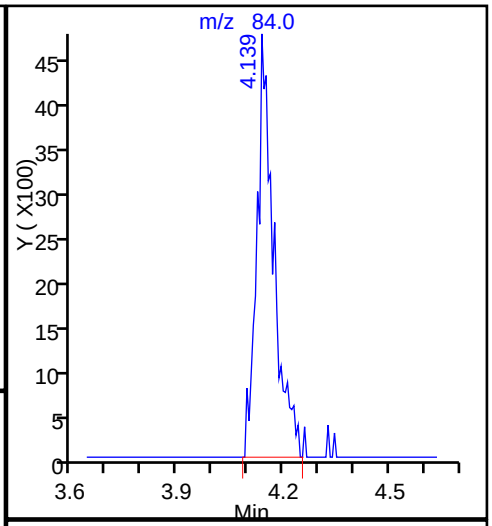
31 Methylene Chloride, CAS: 75-09-2

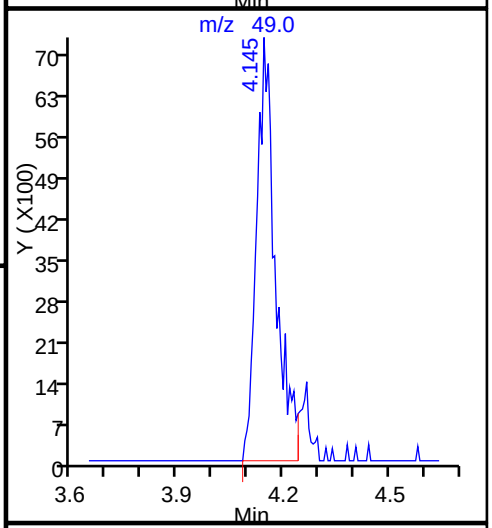


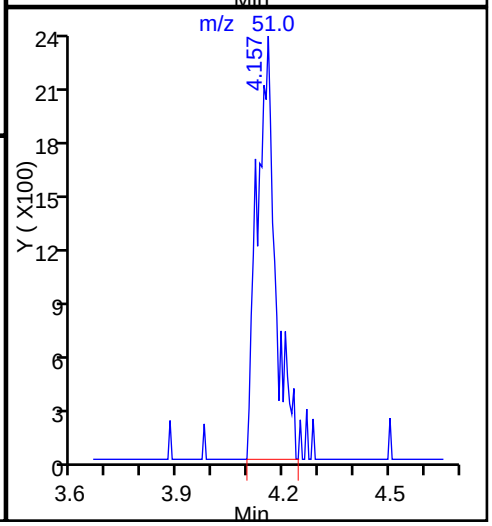












Report Date: 16-Oct-2015 08:22:24 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151015-9022.b\51015019.D

Injection Date: 15-Oct-2015 19:36:30 Instrument ID: CHHP5

Lims ID: 180-48435-A-3 Lab Sample ID: 180-48435-3

Client ID: HD-CW-15A-0/1-0

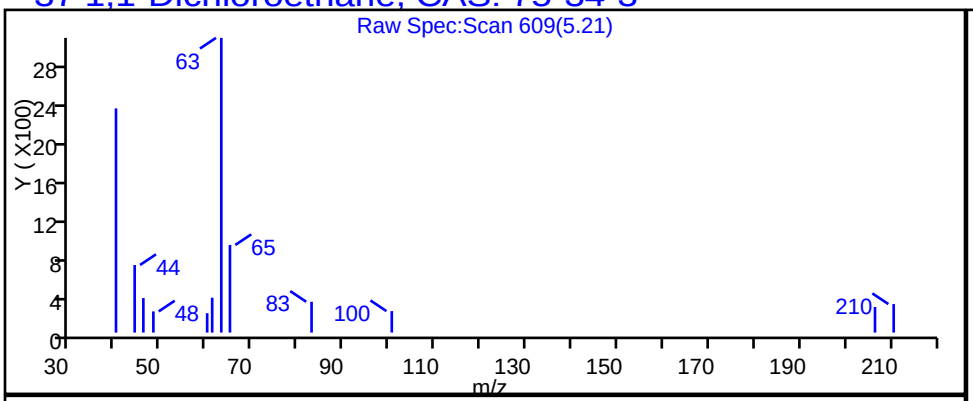
Operator ID: 001562 ALS Bottle#: 18 Worklist Smp#: 19

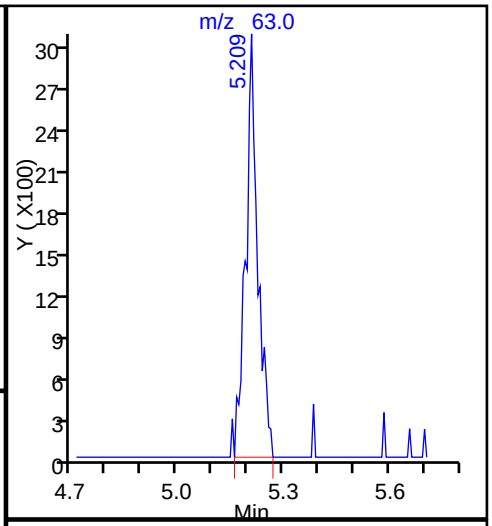
Purge Vol: 5.000 mL Dil. Factor: 500.0000

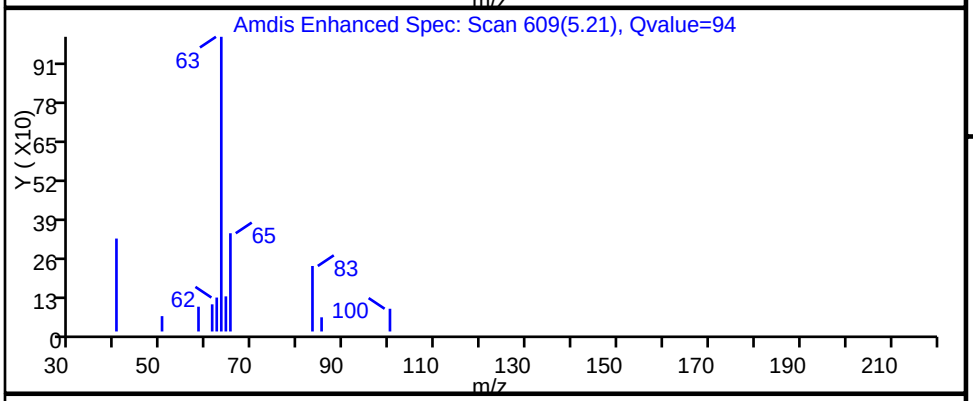
Method: MSVOA_LL_CHHP5 Limit Group: VOA 8260C ICAL

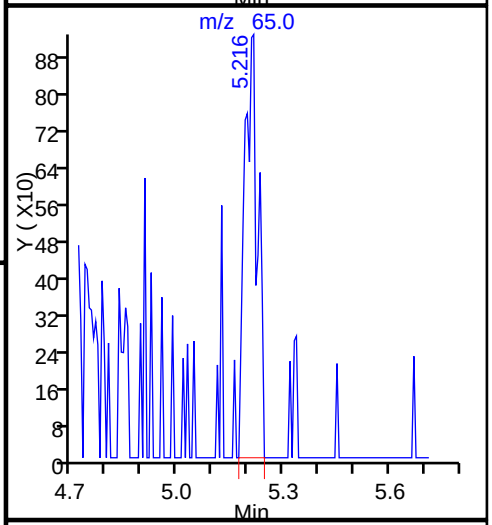
Column: DB-624 (0.18 mm) Detector MS SCAN

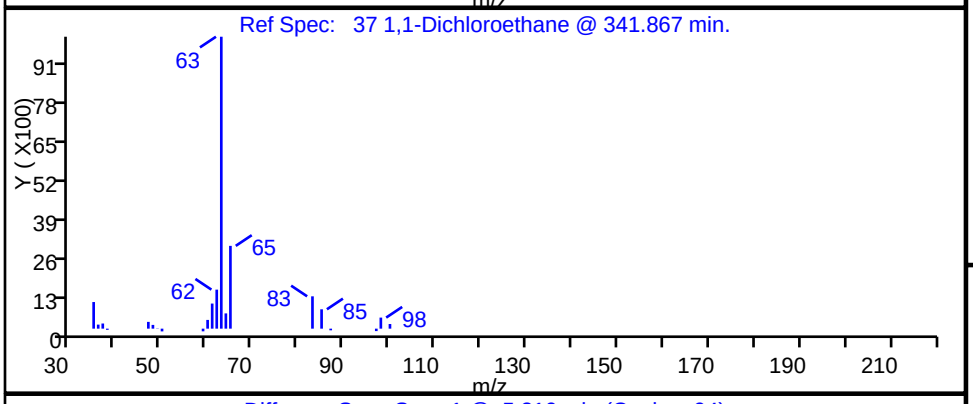
37 1,1-Dichloroethane, CAS: 75-34-3

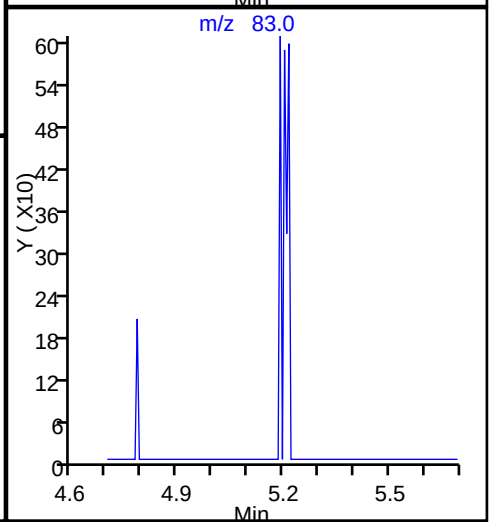


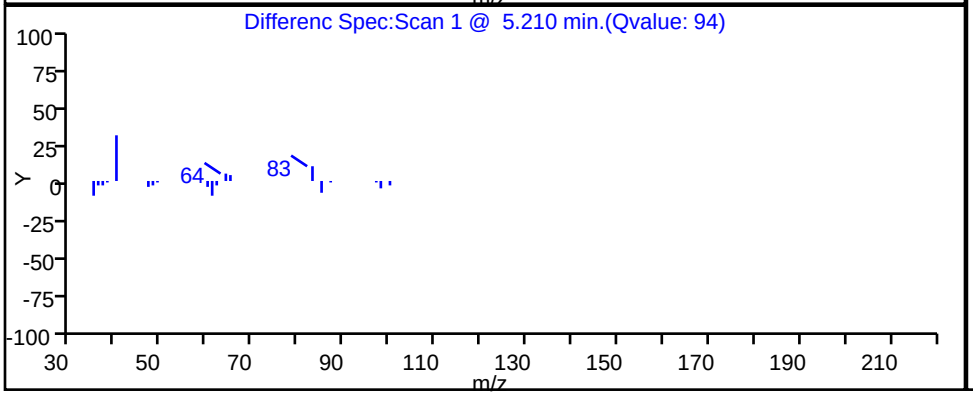










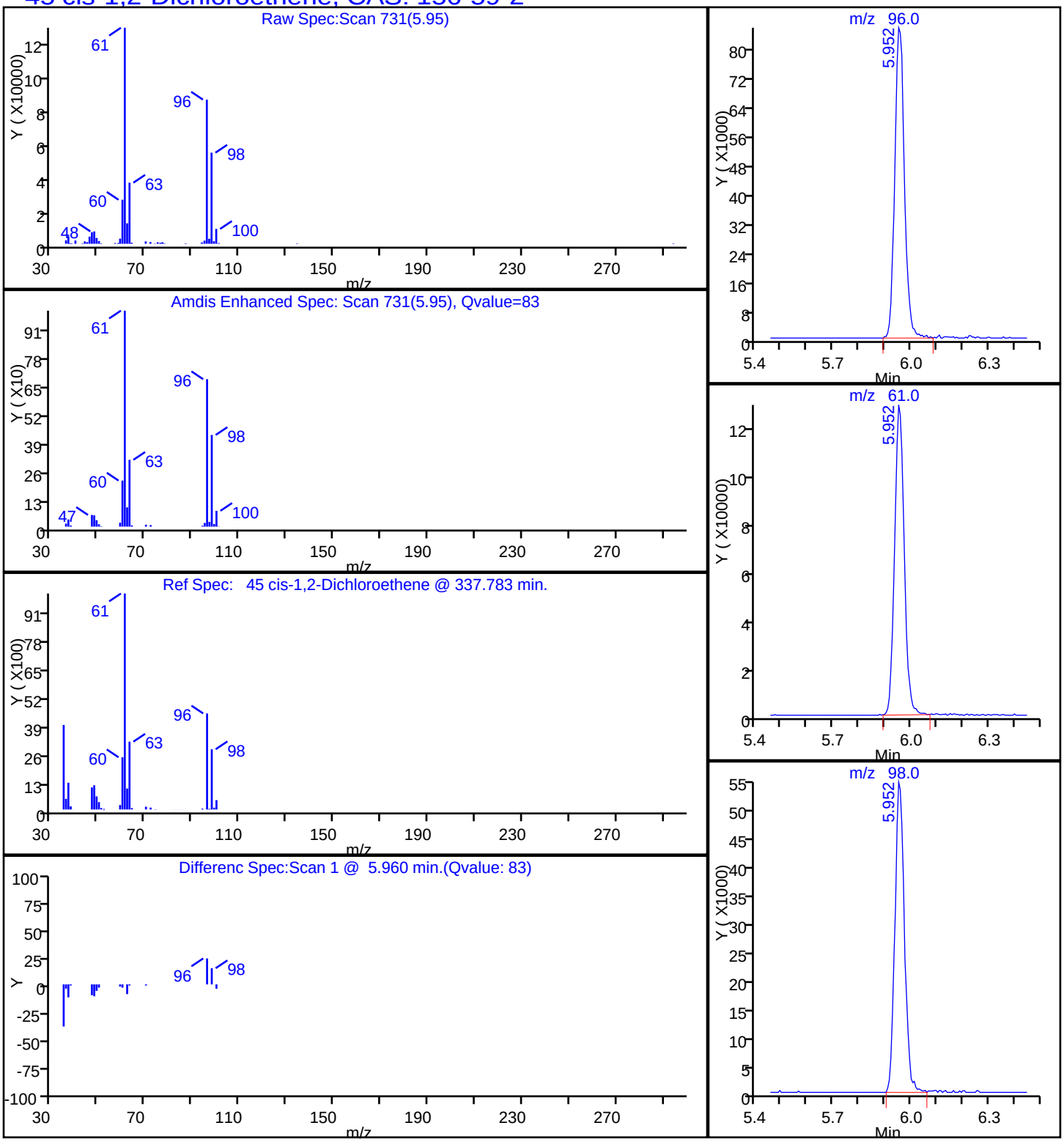


Report Date: 16-Oct-2015 08:22:24 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHHP5\20151015-9022.b\51015019.D				
Injection Date:	15-Oct-2015 19:36:30	Instrument ID:	CHHP5		
Lims ID:	180-48435-A-3	Lab Sample ID:	180-48435-3		
Client ID:	HD-CW-15A-0/1-0				
Operator ID:	001562	ALS Bottle#:	18	Worklist Smp#:	19
Purge Vol:	5.000 mL	Dil. Factor:	500.0000		
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



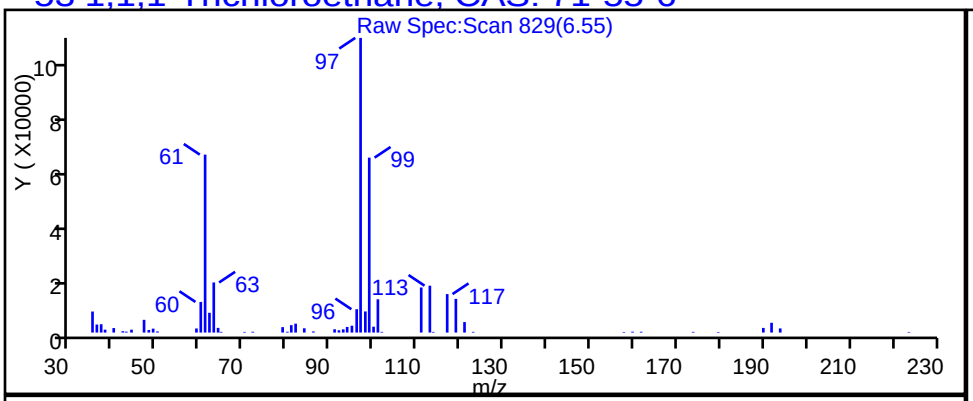
Report Date: 16-Oct-2015 08:22:24 Chrom Revision: 2.2 08-Sep-2015 13:41:46

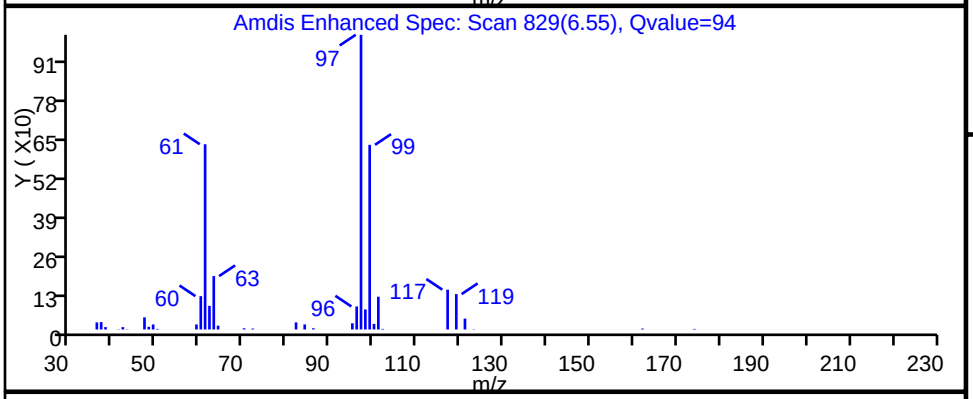
TestAmerica Pittsburgh

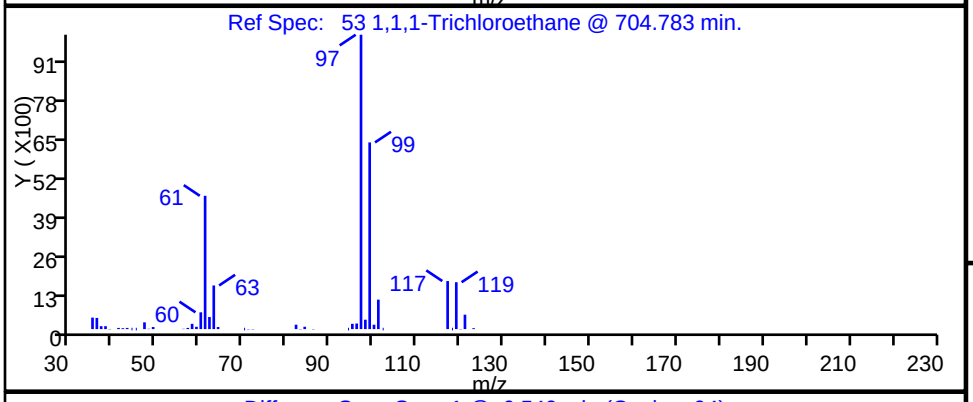
Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151015-9022.b\51015019.D

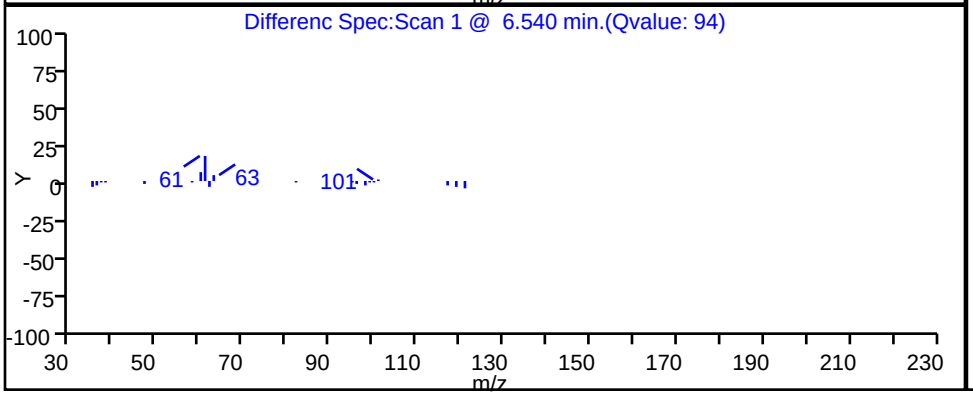
Injection Date:	15-Oct-2015 19:36:30	Instrument ID:	CHHP5		
Lims ID:	180-48435-A-3	Lab Sample ID:	180-48435-3		
Client ID:	HD-CW-15A-0/1-0				
Operator ID:	001562	ALS Bottle#:	18	Worklist Smp#:	19
Purge Vol:	5.000 mL	Dil. Factor:	500.0000		
Method:	MSVOA_LL_CHHP5	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

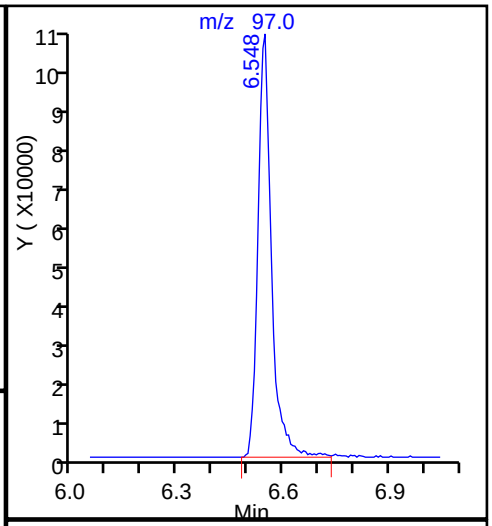
53 1,1,1-Trichloroethane, CAS: 71-55-6

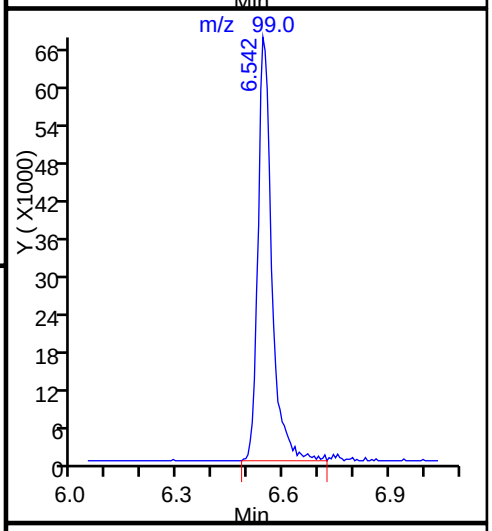


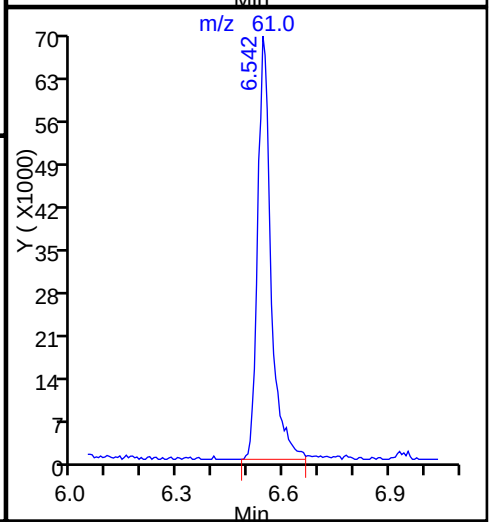












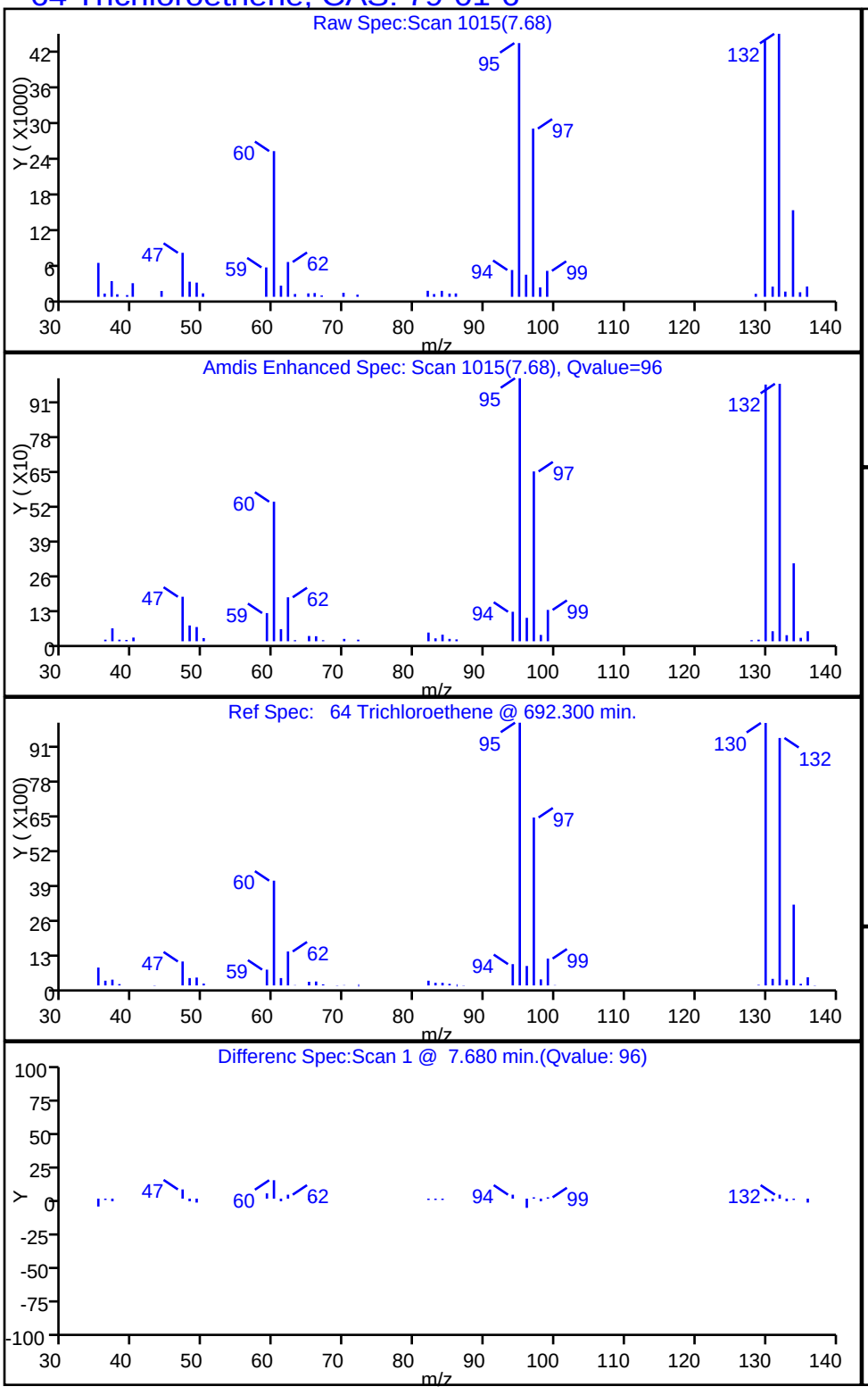
Report Date: 16-Oct-2015 08:22:24 Chrom Revision: 2.2 08-Sep-2015 13:41:46

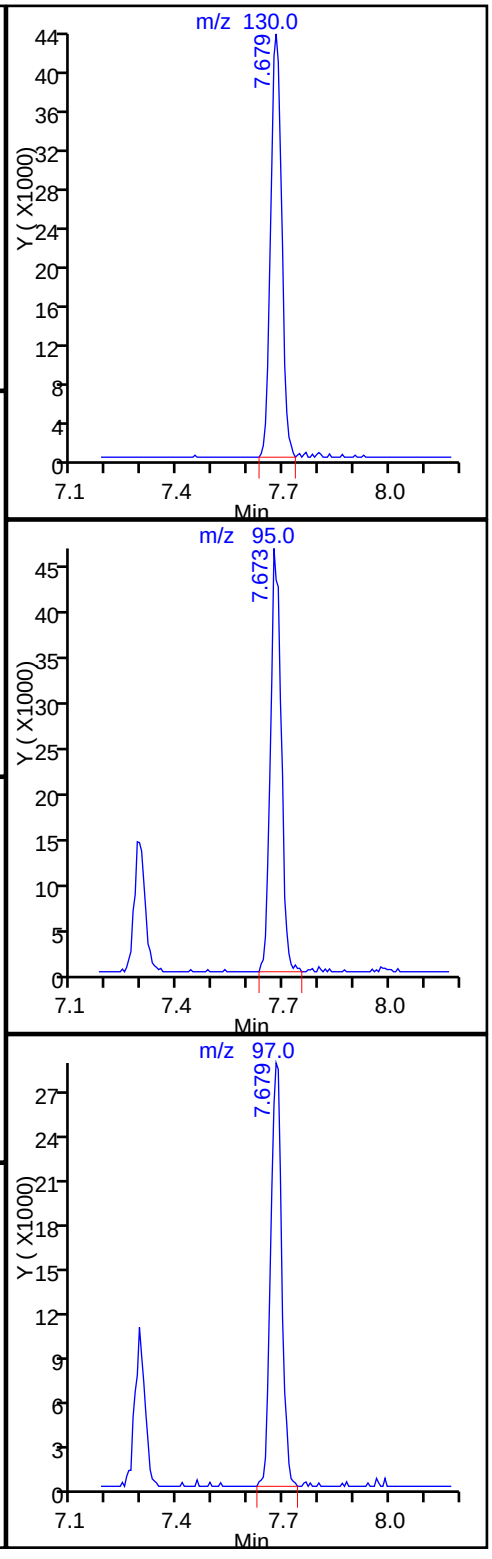
TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151015-9022.b\51015019.D

Injection Date:	15-Oct-2015 19:36:30	Instrument ID:	CHHP5		
Lims ID:	180-48435-A-3	Lab Sample ID:	180-48435-3		
Client ID:	HD-CW-15A-0/1-0				
Operator ID:	001562	ALS Bottle#:	18	Worklist Smp#:	19
Purge Vol:	5.000 mL	Dil. Factor:	500.0000		
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: 16-Oct-2015 08:22:24 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151015-9022.b\51015019.D

Injection Date: 15-Oct-2015 19:36:30 Instrument ID: CHHP5

Lims ID: 180-48435-A-3 Lab Sample ID: 180-48435-3

Client ID: HD-CW-15A-0/1-0

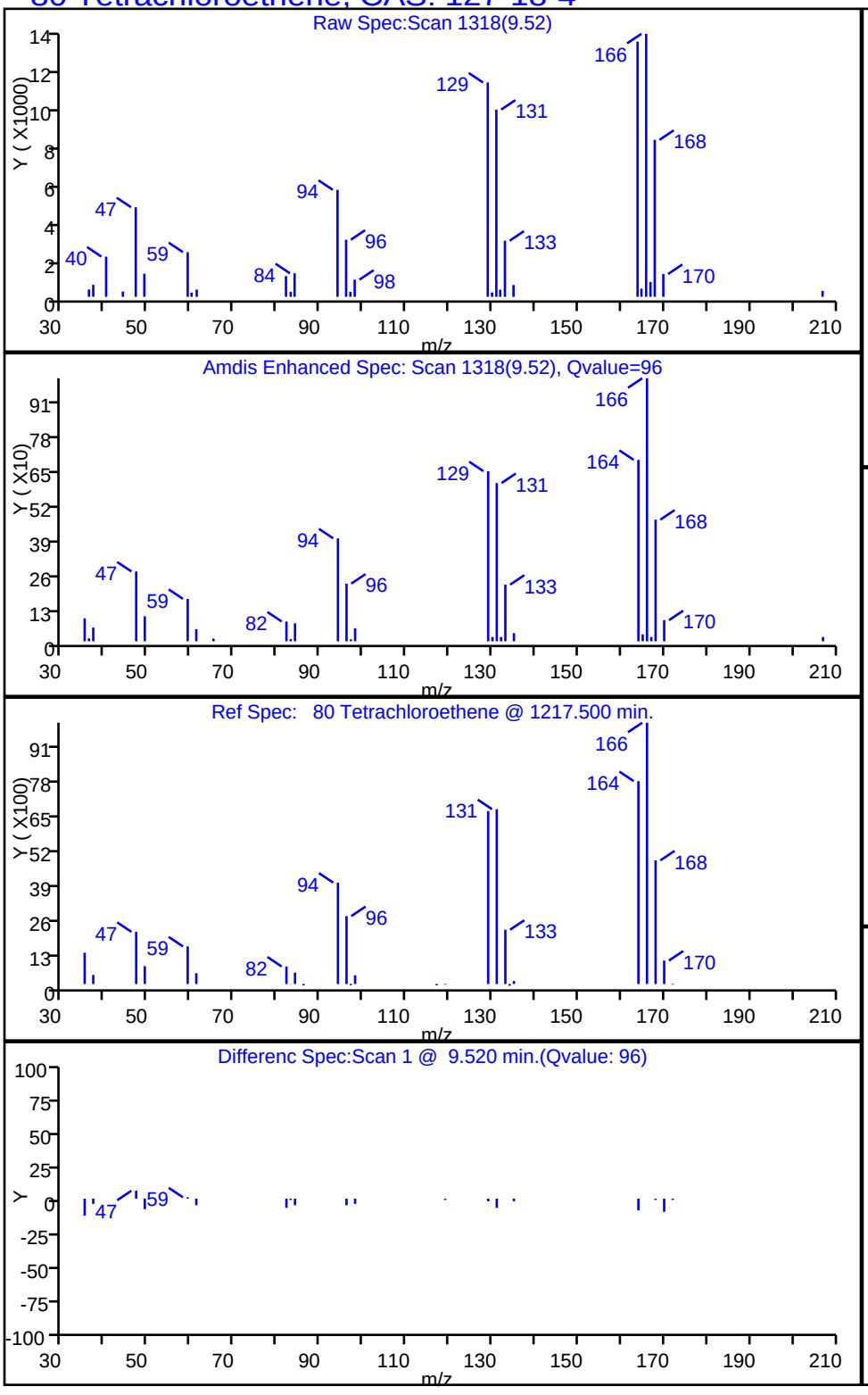
Operator ID: 001562 ALS Bottle#: 18 Worklist Smp#: 19

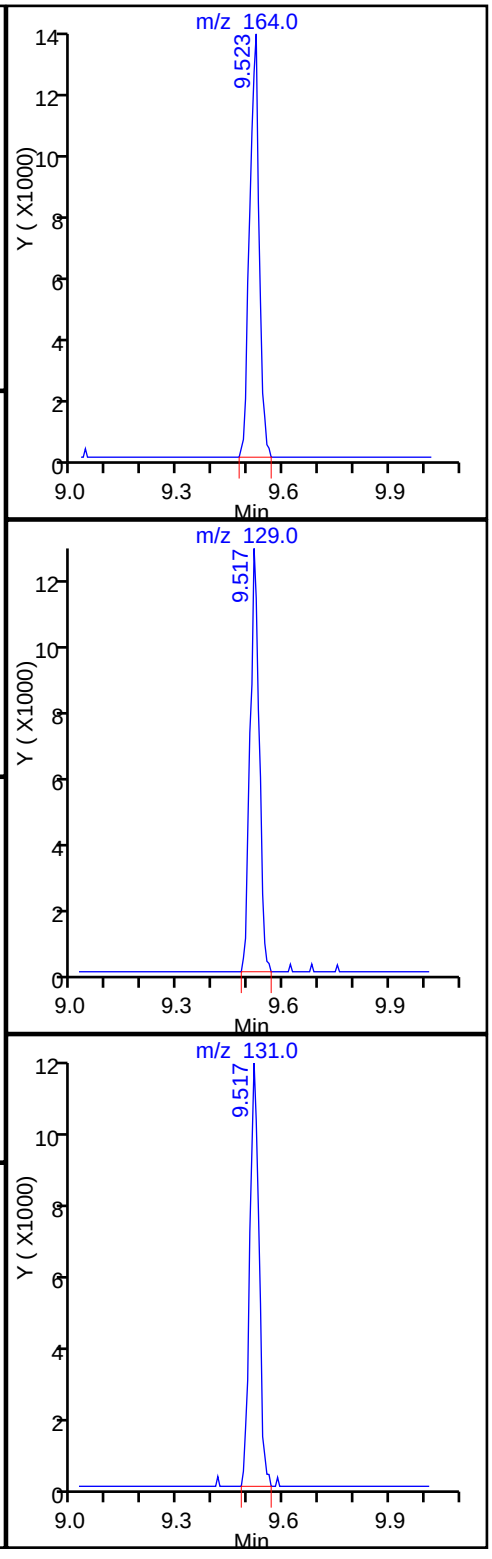
Purge Vol: 5.000 mL Dil. Factor: 500.0000

Method: MSVOA_LL_CHHP5 Limit Group: VOA 8260C ICAL

Column: DB-624 (0.18 mm) Detector MS SCAN

80 Tetrachloroethene, CAS: 127-18-4





Manual Integration/User Assign Peak Report

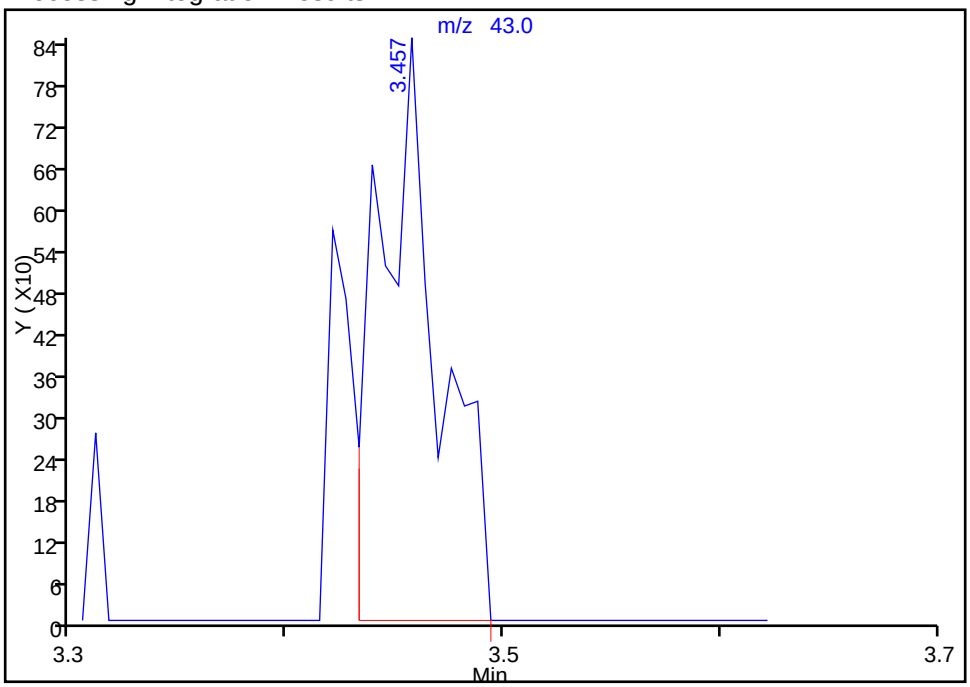
TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHHP5\20151015-9022.b\51015019.D				
Injection Date:	15-Oct-2015 19:36:30	Instrument ID:	CHHP5		
Lims ID:	180-48435-A-3	Lab Sample ID:	180-48435-3		
Client ID:	HD-CW-15A-0/1-0				
Operator ID:	001562	ALS Bottle#:	18	Worklist Smp#:	19
Purge Vol:	5.000 mL	Dil. Factor:	500.0000		
Method:	MSVOA_LL_CHHP5	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

24 Acetone, CAS: 67-64-1

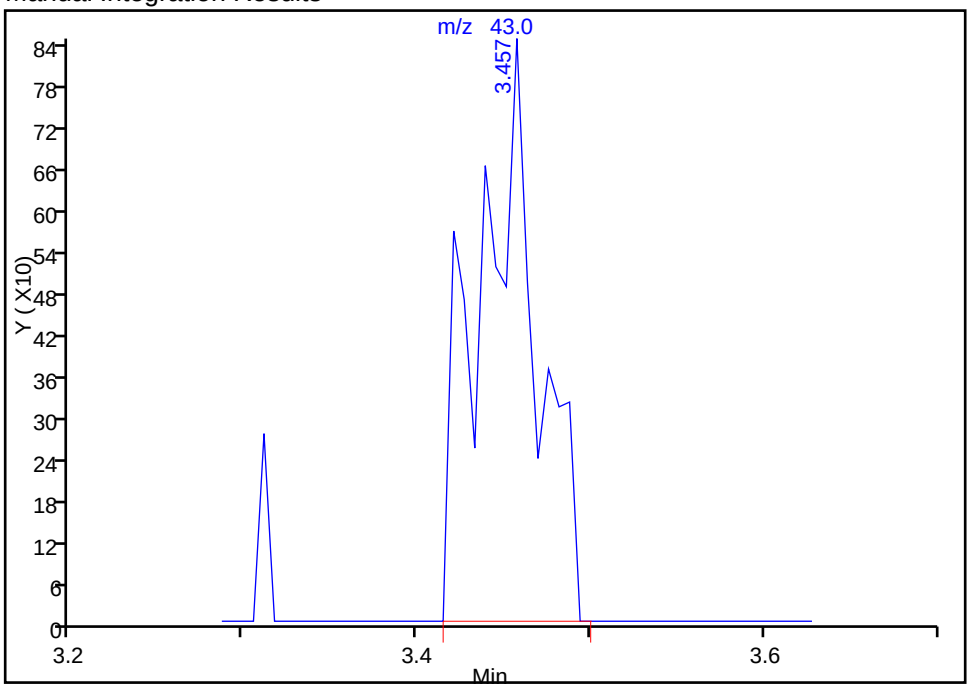
Processing Integration Results

RT: 3.46
Area: 1640
Amount: 2.452787
Amount Units: ng



Manual Integration Results

RT: 3.46
Area: 2018
Amount: 3.018125
Amount Units: ng



Reviewer: fergusond, 16-Oct-2015 08:22:24
Audit Action: Manually Integrated
Audit Reason: Incomplete Integration

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-48435-1

SDG No.:

Client Sample ID: HD-CW-17-0/1-0 | Lab Sample ID: 180-48435-4

Matrix: Water | Lab File ID: 51015021.D

Analysis Method: 8260C | Date Collected: 10/05/2015 06:35

Sample wt/vol: 5(mL) | Date Analyzed: 10/15/2015 20:25

Soil Aliquot Vol: | Dilution Factor: 5

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 157127 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	ND		5.0	1.4
75-01-4	Vinyl chloride	ND	^c	5.0	1.1
74-83-9	Bromomethane	ND	^c	5.0	1.6
75-00-3	Chloroethane	ND	^c	5.0	1.1
75-35-4	1,1-Dichloroethene	6.7		5.0	1.5
67-64-1	Acetone	ND	^c	25	13
75-15-0	Carbon disulfide	ND		5.0	1.1
75-09-2	Methylene Chloride	ND		5.0	0.63
156-60-5	trans-1,2-Dichloroethene	ND		5.0	0.85
1634-04-4	Methyl tert-butyl ether	ND		5.0	0.92
75-34-3	1,1-Dichloroethane	4.2	J	5.0	0.58
156-59-2	cis-1,2-Dichloroethene	83		5.0	1.2
74-97-5	Bromochloromethane	ND		5.0	0.90
78-93-3	2-Butanone (MEK)	ND		25	2.7
67-66-3	Chloroform	ND		5.0	0.85
71-55-6	1,1,1-Trichloroethane	11		5.0	1.4
56-23-5	Carbon tetrachloride	ND		5.0	0.68
71-43-2	Benzene	ND		5.0	0.53
107-06-2	1,2-Dichloroethane	ND		5.0	1.1
79-01-6	Trichloroethene	64		5.0	0.72
78-87-5	1,2-Dichloropropane	ND		5.0	0.47
75-27-4	Bromodichloromethane	ND		5.0	0.65
10061-01-5	cis-1,3-Dichloropropene	ND		5.0	0.93
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		25	2.6
108-88-3	Toluene	ND		5.0	0.75
10061-02-6	trans-1,3-Dichloropropene	ND		5.0	0.74
79-00-5	1,1,2-Trichloroethane	ND		5.0	1.0
127-18-4	Tetrachloroethene	46		5.0	0.74
591-78-6	2-Hexanone	ND		25	0.80
124-48-1	Dibromochloromethane	ND		5.0	0.68
106-93-4	1,2-Dibromoethane (EDB)	ND		5.0	0.90
108-90-7	Chlorobenzene	ND		5.0	0.68
630-20-6	1,1,1,2-Tetrachloroethane	ND		5.0	1.4
100-41-4	Ethylbenzene	ND		5.0	1.1
1330-20-7	Xylenes, Total	ND		15	2.4
100-42-5	Styrene	ND		5.0	0.48

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-48435-1

SDG No.:

Client Sample ID: HD-CW-17-0/1-0 | Lab Sample ID: 180-48435-4

Matrix: Water | Lab File ID: 51015021.D

Analysis Method: 8260C | Date Collected: 10/05/2015 06:35

Sample wt/vol: 5(mL) | Date Analyzed: 10/15/2015 20:25

Soil Aliquot Vol: | Dilution Factor: 5

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 157127 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-25-2	Bromoform	ND		5.0	0.96
79-34-5	1,1,2,2-Tetrachloroethane	ND		5.0	1.0
107-13-1	Acrylonitrile	ND		100	2.7
123-91-1	1,4-Dioxane	ND	^c	1000	170

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		64-135
2037-26-5	Toluene-d8 (Surr)	106		71-118
460-00-4	4-Bromofluorobenzene (Surr)	92		70-118
1868-53-7	Dibromofluoromethane (Surr)	98		70-128

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151015-9022.b\51015021.D
Lims ID: 180-48435-C-4 Lab Sample ID: 180-48435-4
Client ID: HD-CW-17-0/1-0
Sample Type: Client
Inject. Date: 15-Oct-2015 20:25:30 ALS Bottle#: 20 Worklist Smp#: 21
Purge Vol: 5.000 mL Dil. Factor: 5.0000
Sample Info: 180-48435-C-4, 5x
Misc. Info.: 180-0009022-021
Operator ID: 001562 Instrument ID: CHHP5

Method: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151015-9022.b\MSVOA_LL_CHHP5.m
Limit Group: VOA 8260C ICAL
Last Update: 16-Oct-2015 08:23:53 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: XAWRK003

First Level Reviewer: fergusond Date: 16-Oct-2015 08:23:52

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
*	1 TBA-d9 (IS)	65	4.273	4.273	0.000	0	138763	1000.0	
*	2 Fluorobenzene (IS)	96	7.297	7.290	0.007	98	318099	50.0	
*	3 Chlorobenzene-d5	119	10.393	10.386	0.007	91	71140	50.0	
*	4 1,4-Dichlorobenzene-d4	152	12.736	12.729	0.007	98	93755	50.0	
$	5 Dibromofluoromethane (Surr	113	6.567	6.554	0.013	94	76788	49.2	
$	6 1,2-Dichloroethane-d4 (Sur	65	6.938	6.931	0.007	0	112785	52.6	
$	7 Toluene-d8 (Surr)	98	8.939	8.939	0.000	95	292103	53.2	
$	8 4-Bromofluorobenzene (Surr	95	11.574	11.573	0.001	89	95123	45.9	
	12 Chloromethane	50		1.772				ND	
	13 Vinyl chloride	62		1.912				ND	
	15 Bromomethane	94		2.241				ND	
	16 Chloroethane	64		2.399				ND	
	22 1,1-Dichloroethene	96	3.349	3.330	0.019	66	11926	6.73	
	24 Acetone	43		3.439				ND	
	26 Carbon disulfide	76		3.640				ND	
	31 Methylene Chloride	84		4.139				ND	
	33 Acrylonitrile	53		4.522				ND	
	34 trans-1,2-Dichloroethene	96		4.559				ND	
	35 Methyl tert-butyl ether	73		4.577				ND	
	37 1,1-Dichloroethane	63	5.210	5.197	0.013	97	15882	4.19	
	45 cis-1,2-Dichloroethene	96	5.959	5.946	0.013	84	171210	83.3	
	46 2-Butanone (MEK)	43		5.952				ND	
	49 Chlorobromomethane	128		6.231				ND	
	52 Chloroform	83		6.377				ND	
	53 1,1,1-Trichloroethane	97	6.543	6.536	0.007	91	25560	10.6	
	56 Carbon tetrachloride	117		6.718				ND	
	58 Benzene	78		6.943				ND	
	59 1,2-Dichloroethane	62		7.016				ND	
	64 Trichloroethene	130	7.680	7.673	0.007	97	122686	63.9	
	67 1,2-Dichloropropane	63		7.947				ND	
	70 1,4-Dioxane	88		8.026				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
71 Dichlorobromomethane	83		8.233				ND	
74 cis-1,3-Dichloropropene	75		8.671				ND	
75 4-Methyl-2-pentanone (MIBK	43		8.823				ND	
76 Toluene	91		9.006				ND	
77 trans-1,3-Dichloropropene	75		9.255				ND	
79 1,1,2-Trichloroethane	97		9.444				ND	
80 Tetrachloroethene	164	9.523	9.517	0.006	97	63140	46.2	
82 2-Hexanone	43		9.663				ND	
84 Chlorodibromomethane	129		9.815				ND	
85 Ethylene Dibromide	107		9.930				ND	
87 Chlorobenzene	112		10.417				ND	
89 1,1,1,2-Tetrachloroethane	131		10.514				ND	
90 Ethylbenzene	106		10.520				ND	
91 m-Xylene & p-Xylene	106		10.654				ND	
92 o-Xylene	106		11.031				ND	
93 Styrene	104		11.050				ND	
94 Bromoform	173		11.232				ND	
99 1,1,2,2-Tetrachloroethane	83		11.707				ND	
S 133 Xylenes, Total	106		1.000				ND	

Reagents:

VOA8260INT_00043	Amount Added:	2.00	Units: uL	Run Reagent
VOA8260SURR_00043	Amount Added:	2.00	Units: uL	Run Reagent

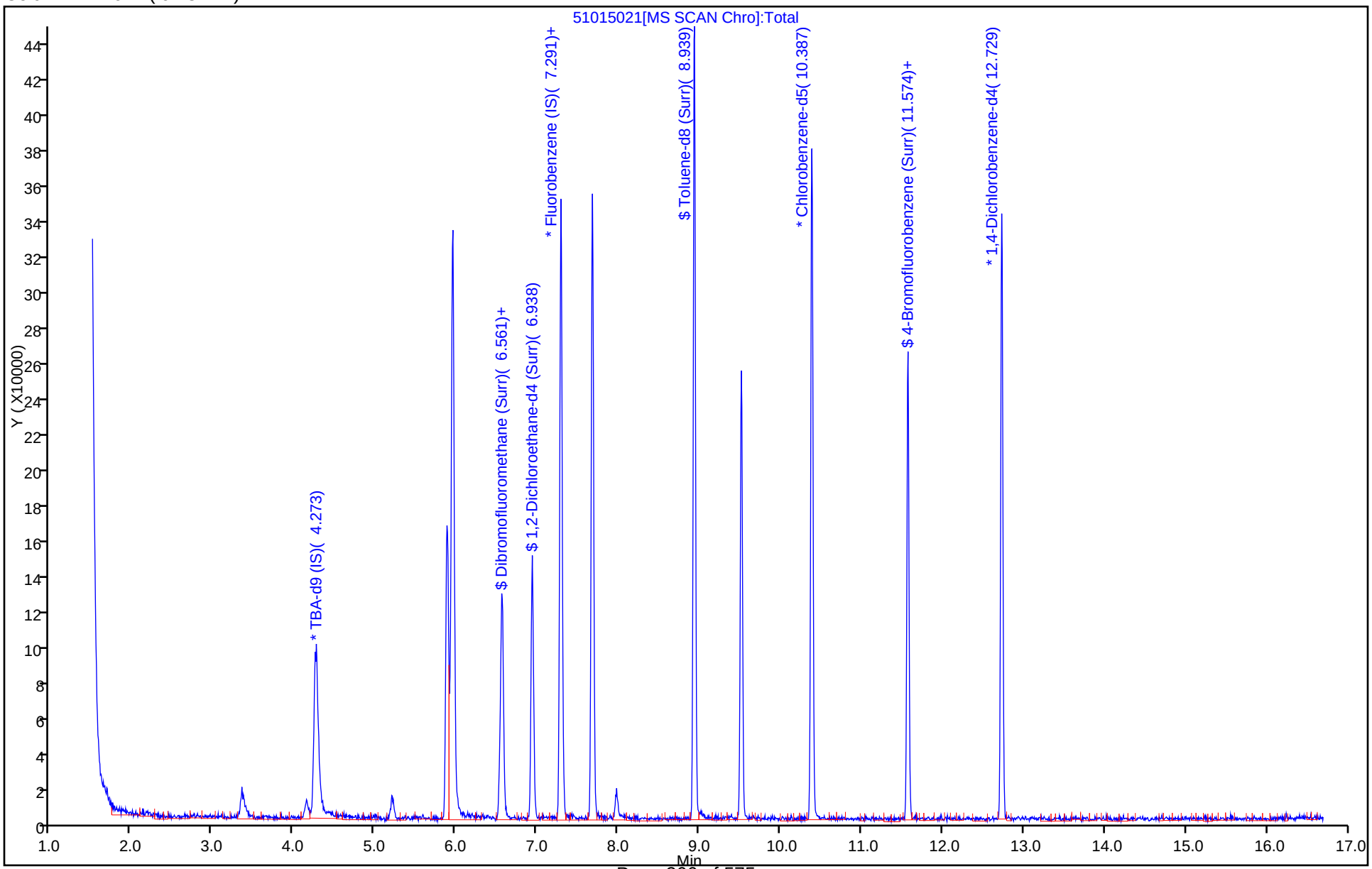
Report Date: 16-Oct-2015 08:23:53 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151015-9022.b\51015021.D

Injection Date:	15-Oct-2015 20:25:30	Instrument ID:	CHHP5	Operator ID:	001562
Lims ID:	180-48435-C-4	Lab Sample ID:	180-48435-4	Worklist Smp#:	21
Client ID:	HD-CW-17-0/1-0				
Purge Vol:	5.000 mL	Dil. Factor:	5.0000	ALS Bottle#:	20
Method:	MSVOA_LL_CHHP5	Limit Group:	VOA 8260C ICAL		

Column: DB-624 (0.18 mm)



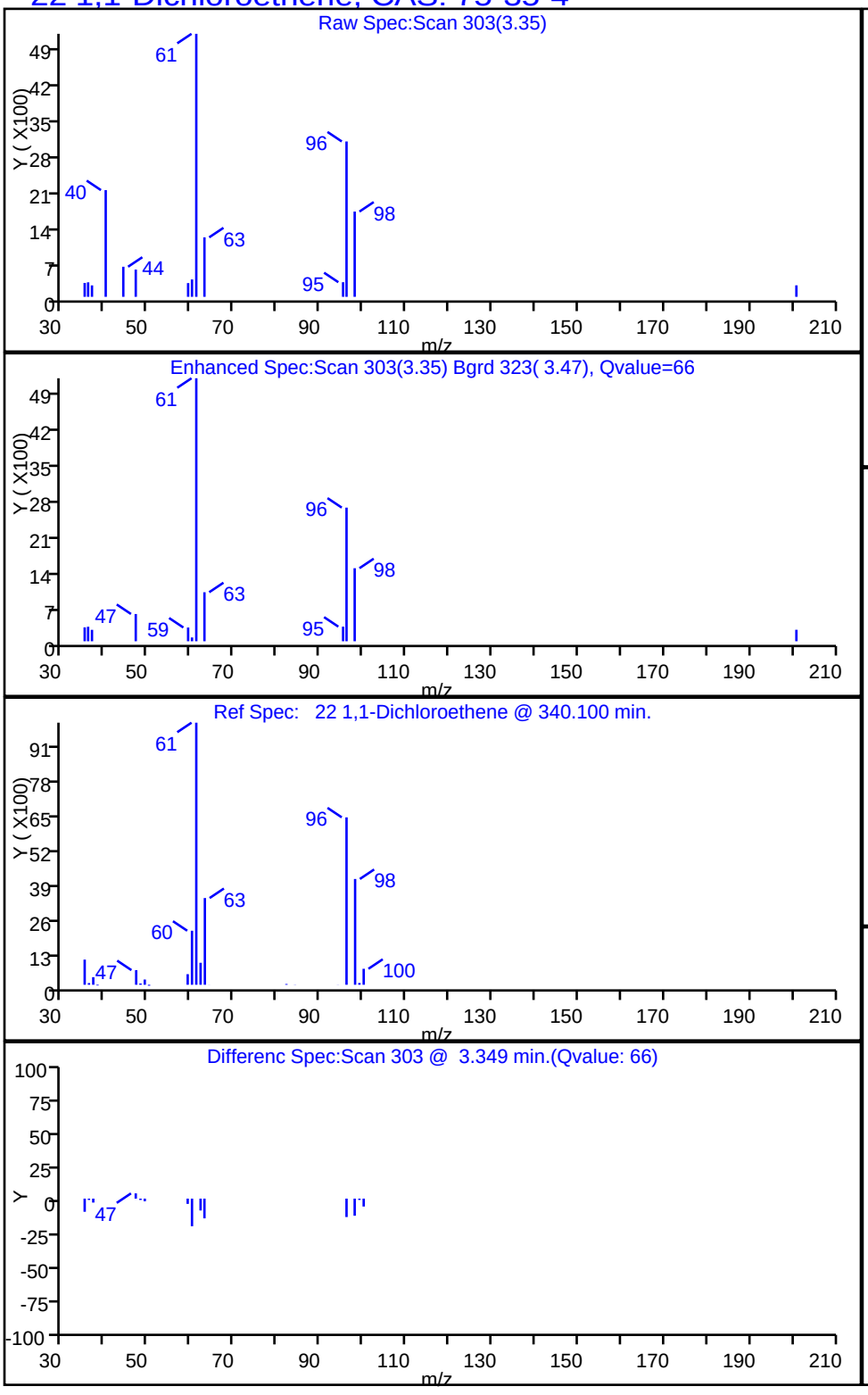
Report Date: 16-Oct-2015 08:23:53 Chrom Revision: 2.2 08-Sep-2015 13:41:46

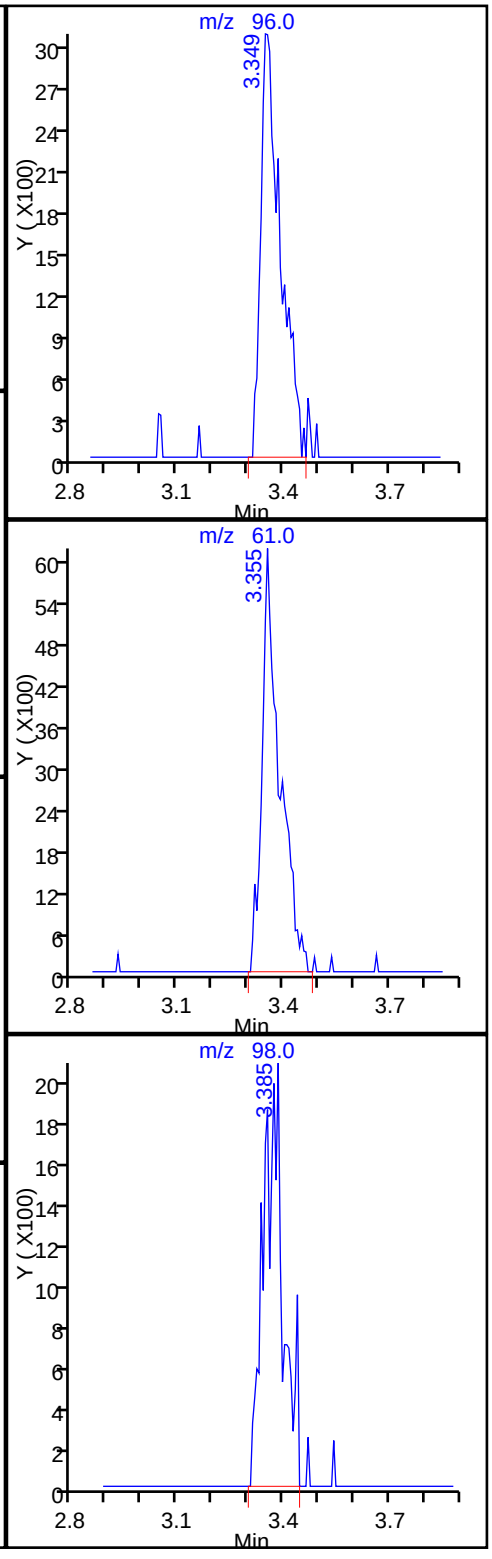
TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151015-9022.b\51015021.D

Injection Date:	15-Oct-2015 20:25:30	Instrument ID:	CHHP5		
Lims ID:	180-48435-C-4	Lab Sample ID:	180-48435-4		
Client ID:	HD-CW-17-0/1-0				
Operator ID:	001562	ALS Bottle#:	20	Worklist Smp#:	21
Purge Vol:	5.000 mL	Dil. Factor:	5.0000		
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





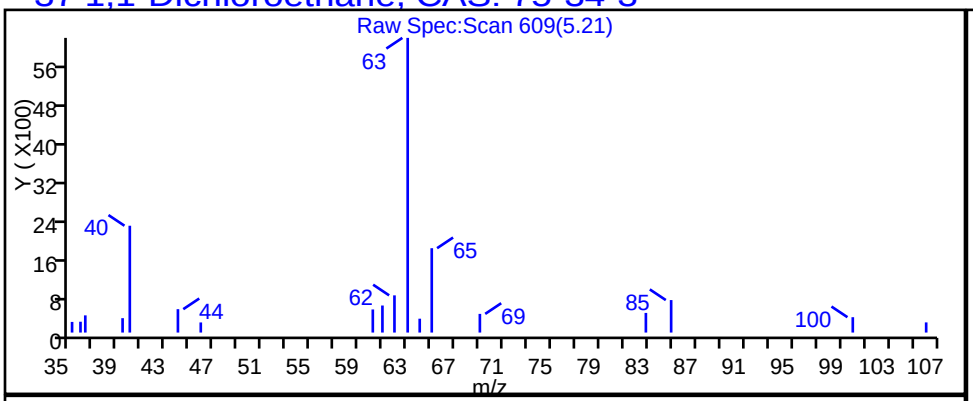
Report Date: 16-Oct-2015 08:23:53 Chrom Revision: 2.2 08-Sep-2015 13:41:46

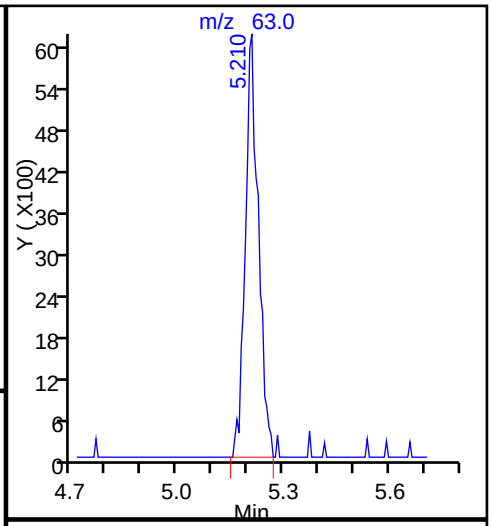
TestAmerica Pittsburgh

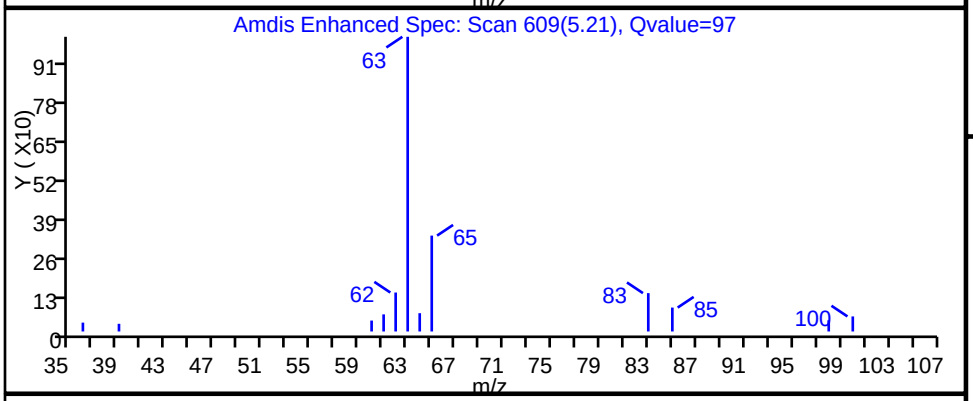
Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151015-9022.b\51015021.D

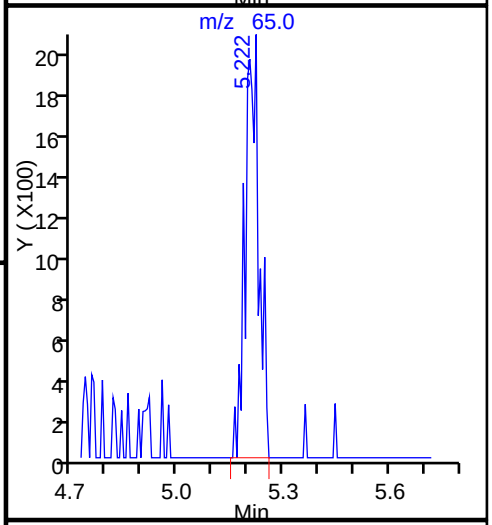
Injection Date:	15-Oct-2015 20:25:30	Instrument ID:	CHHP5		
Lims ID:	180-48435-C-4	Lab Sample ID:	180-48435-4		
Client ID:	HD-CW-17-0/1-0				
Operator ID:	001562	ALS Bottle#:	20	Worklist Smp#:	21
Purge Vol:	5.000 mL	Dil. Factor:	5.0000		
Method:	MSVOA_LL_CHHP5	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

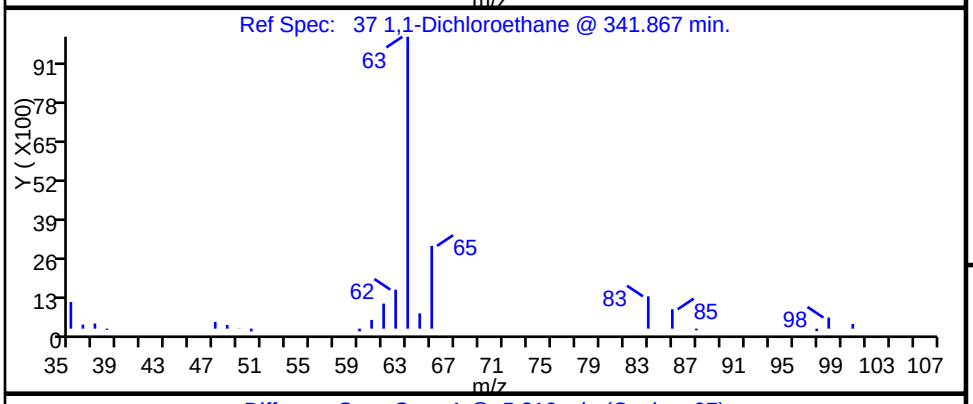
37 1,1-Dichloroethane, CAS: 75-34-3

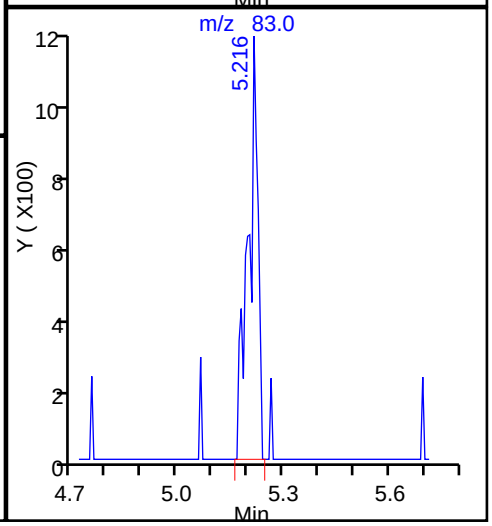


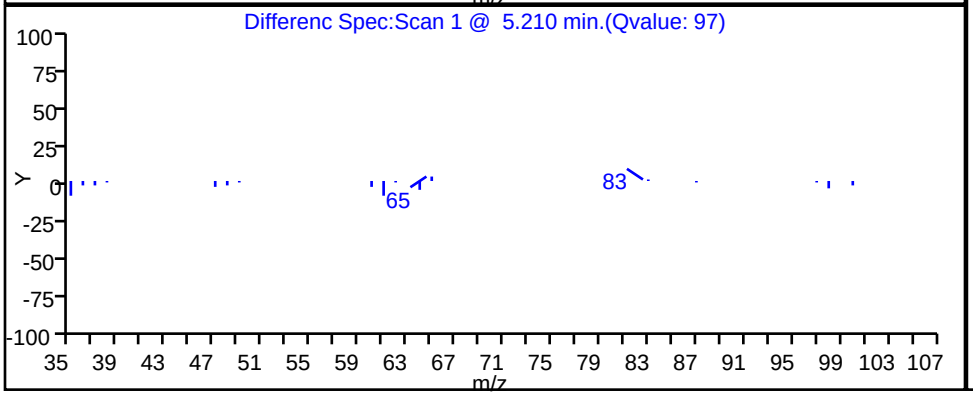












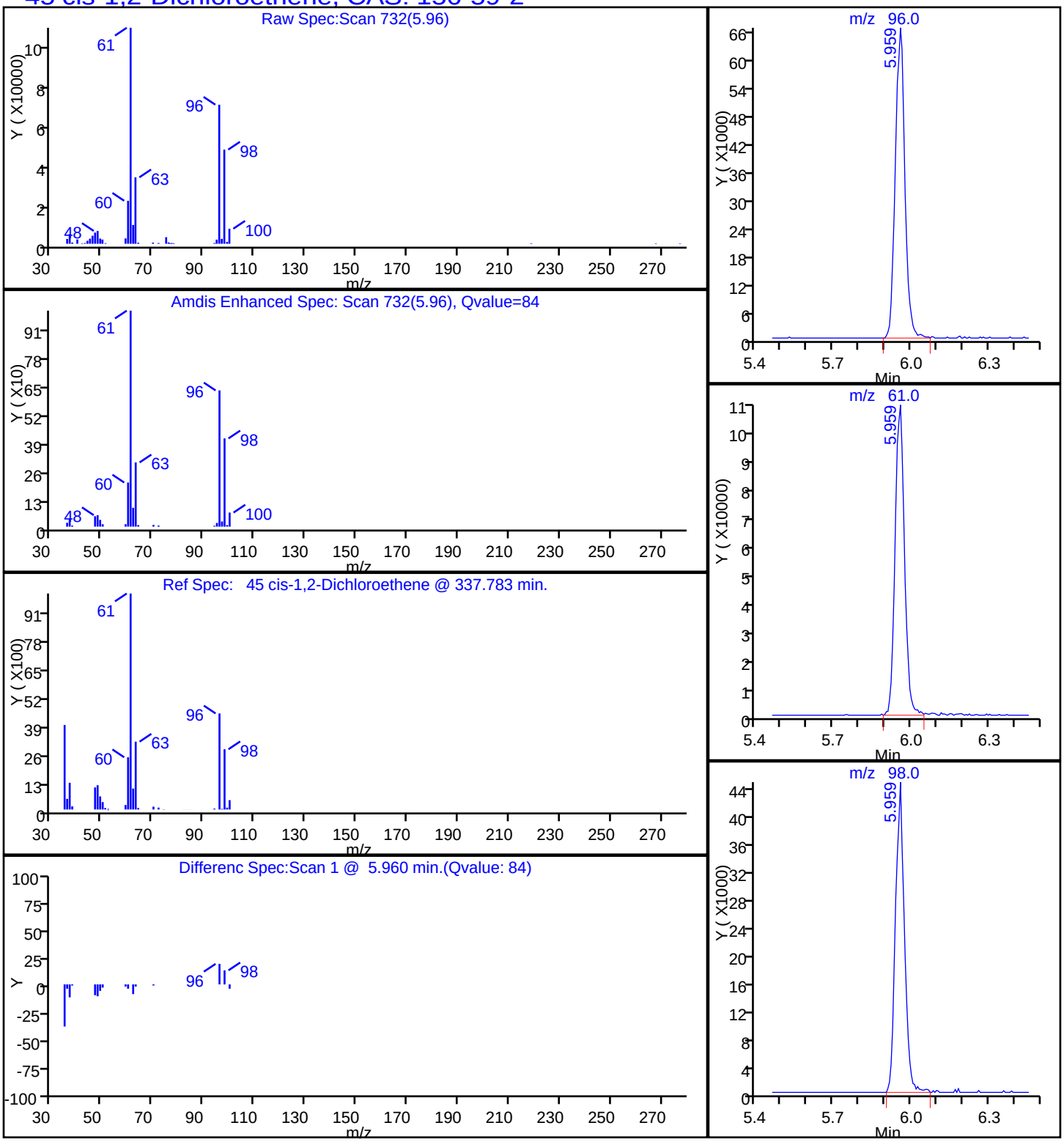
Report Date: 16-Oct-2015 08:23:53 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151015-9022.b\51015021.D

Injection Date:	15-Oct-2015 20:25:30	Instrument ID:	CHHP5		
Lims ID:	180-48435-C-4	Lab Sample ID:	180-48435-4		
Client ID:	HD-CW-17-0/1-0				
Operator ID:	001562	ALS Bottle#:	20	Worklist Smp#:	21
Purge Vol:	5.000 mL	Dil. Factor:	5.0000		
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



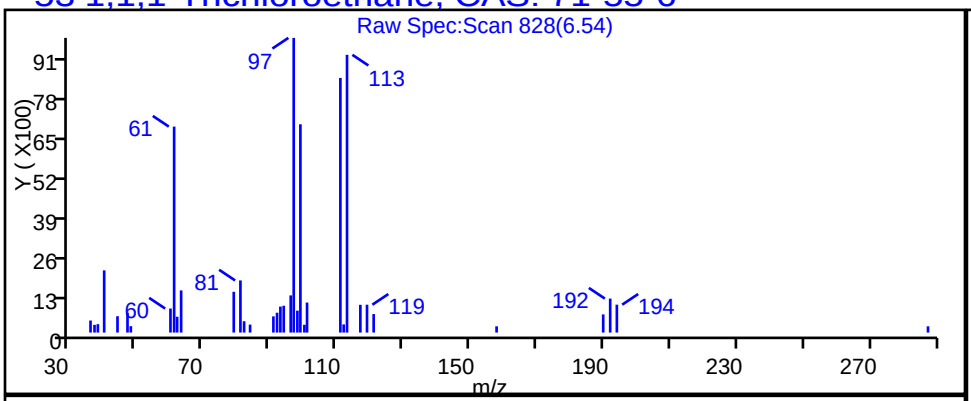
Report Date: 16-Oct-2015 08:23:53 Chrom Revision: 2.2 08-Sep-2015 13:41:46

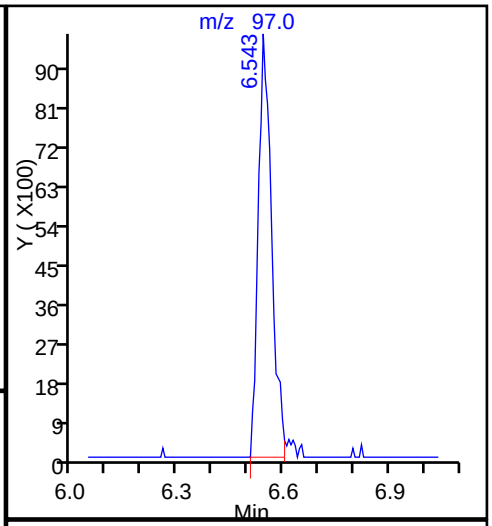
TestAmerica Pittsburgh

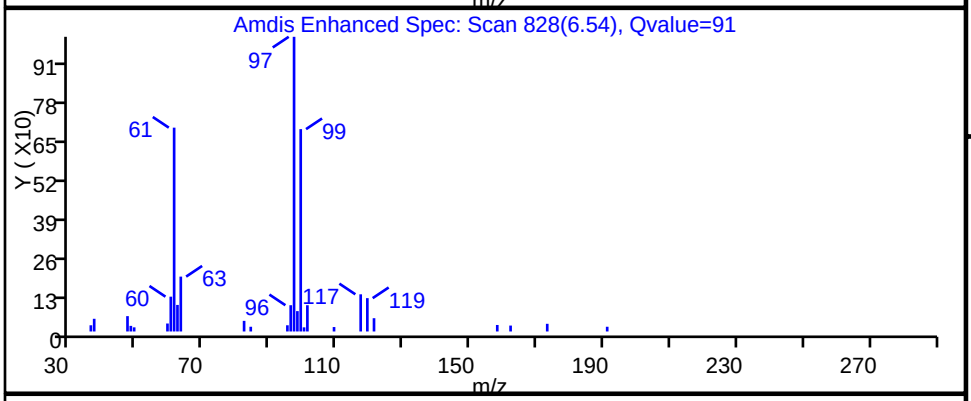
Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151015-9022.b\51015021.D

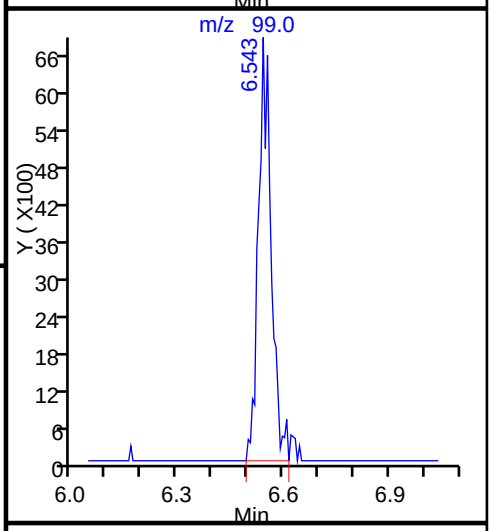
Injection Date:	15-Oct-2015 20:25:30	Instrument ID:	CHHP5		
Lims ID:	180-48435-C-4	Lab Sample ID:	180-48435-4		
Client ID:	HD-CW-17-0/1-0				
Operator ID:	001562	ALS Bottle#:	20	Worklist Smp#:	21
Purge Vol:	5.000 mL	Dil. Factor:	5.0000		
Method:	MSVOA_LL_CHHP5	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

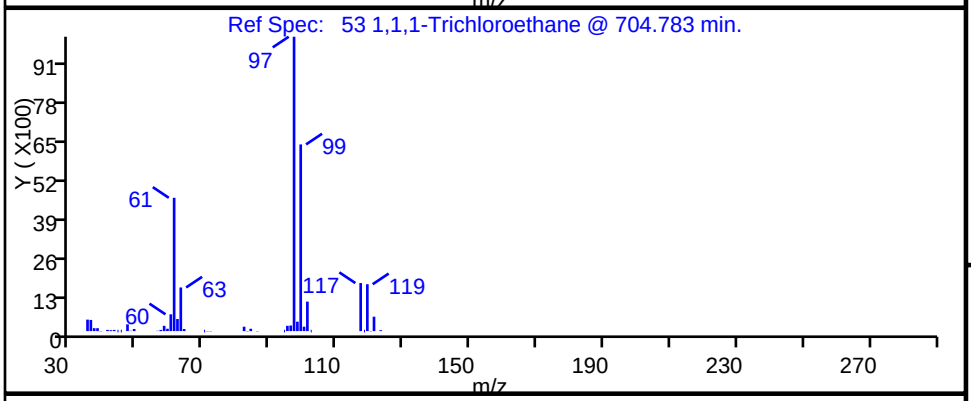
53 1,1,1-Trichloroethane, CAS: 71-55-6

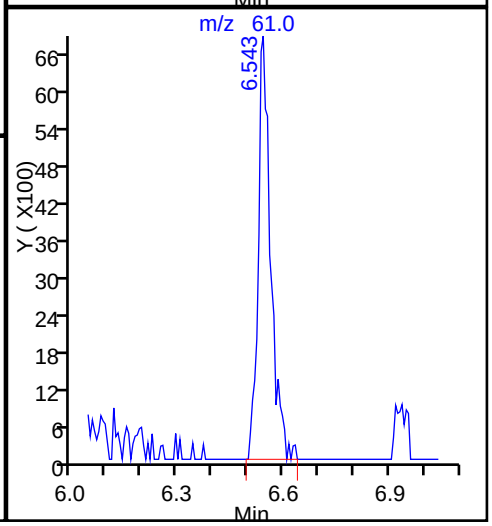


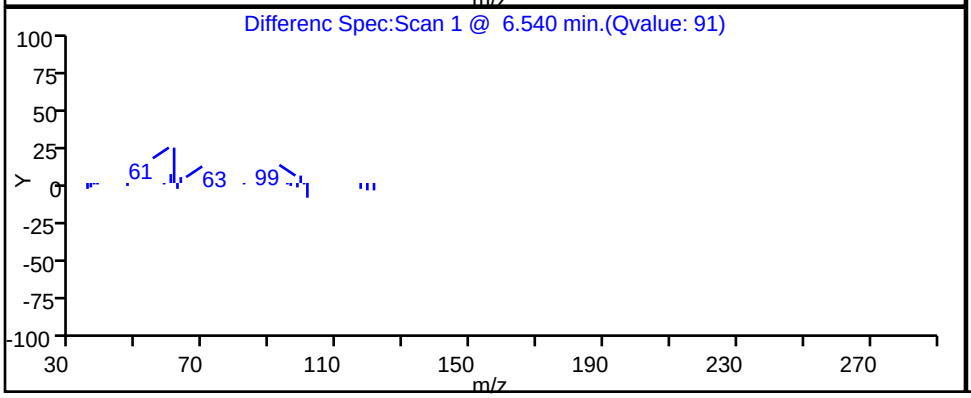












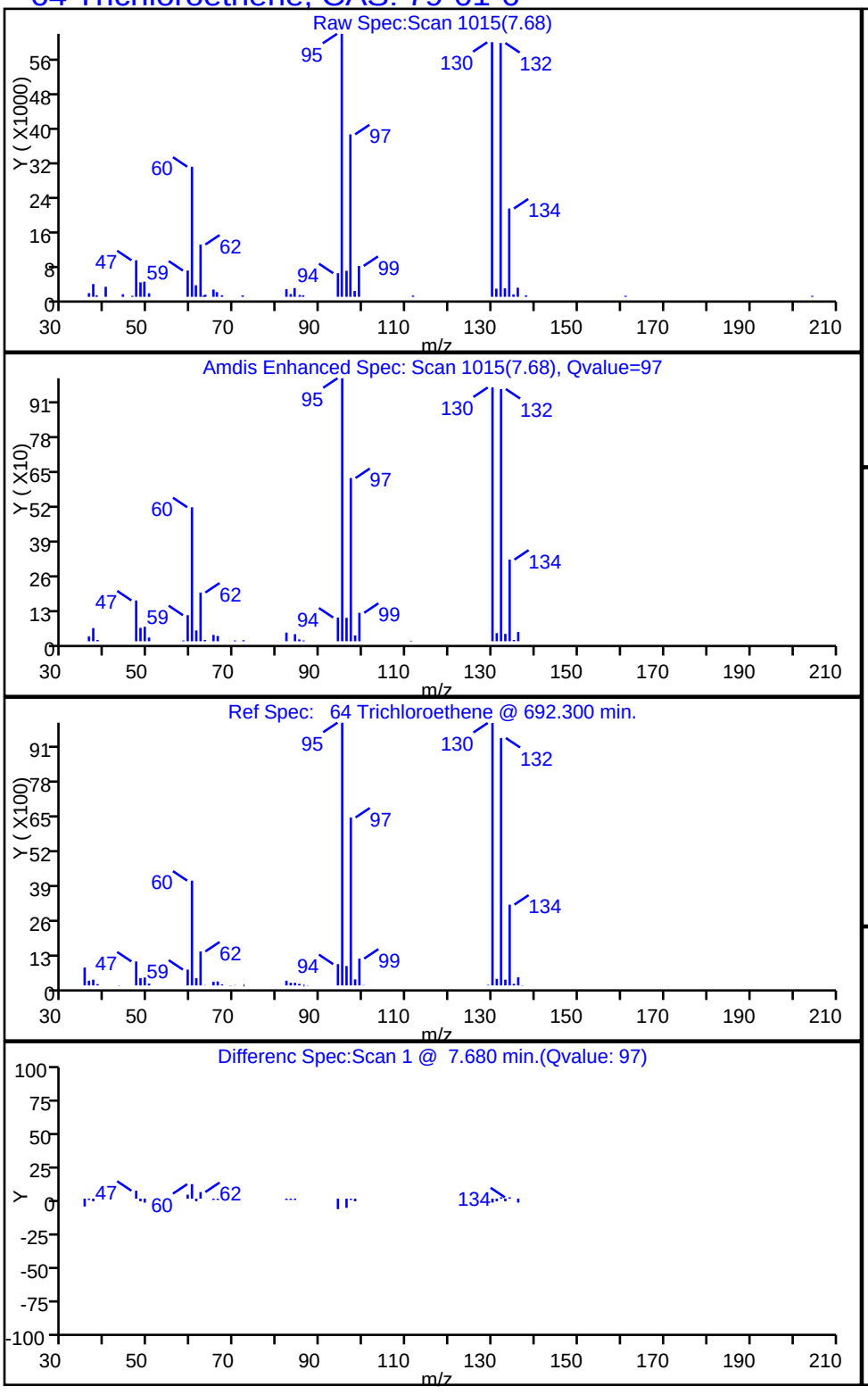
Report Date: 16-Oct-2015 08:23:53 Chrom Revision: 2.2 08-Sep-2015 13:41:46

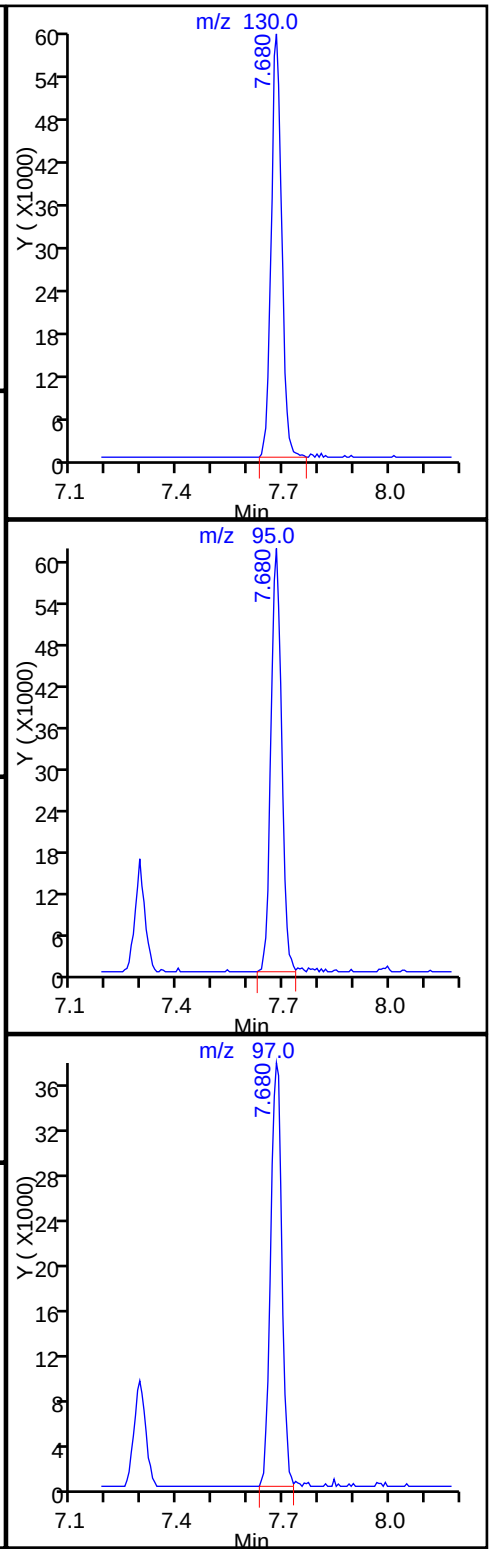
TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151015-9022.b\51015021.D

Injection Date:	15-Oct-2015 20:25:30	Instrument ID:	CHHP5		
Lims ID:	180-48435-C-4	Lab Sample ID:	180-48435-4		
Client ID:	HD-CW-17-0/1-0				
Operator ID:	001562	ALS Bottle#:	20	Worklist Smp#:	21
Purge Vol:	5.000 mL	Dil. Factor:	5.0000		
Method:	MSVOA_LL_CHHP5	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

64 Trichloroethene, CAS: 79-01-6





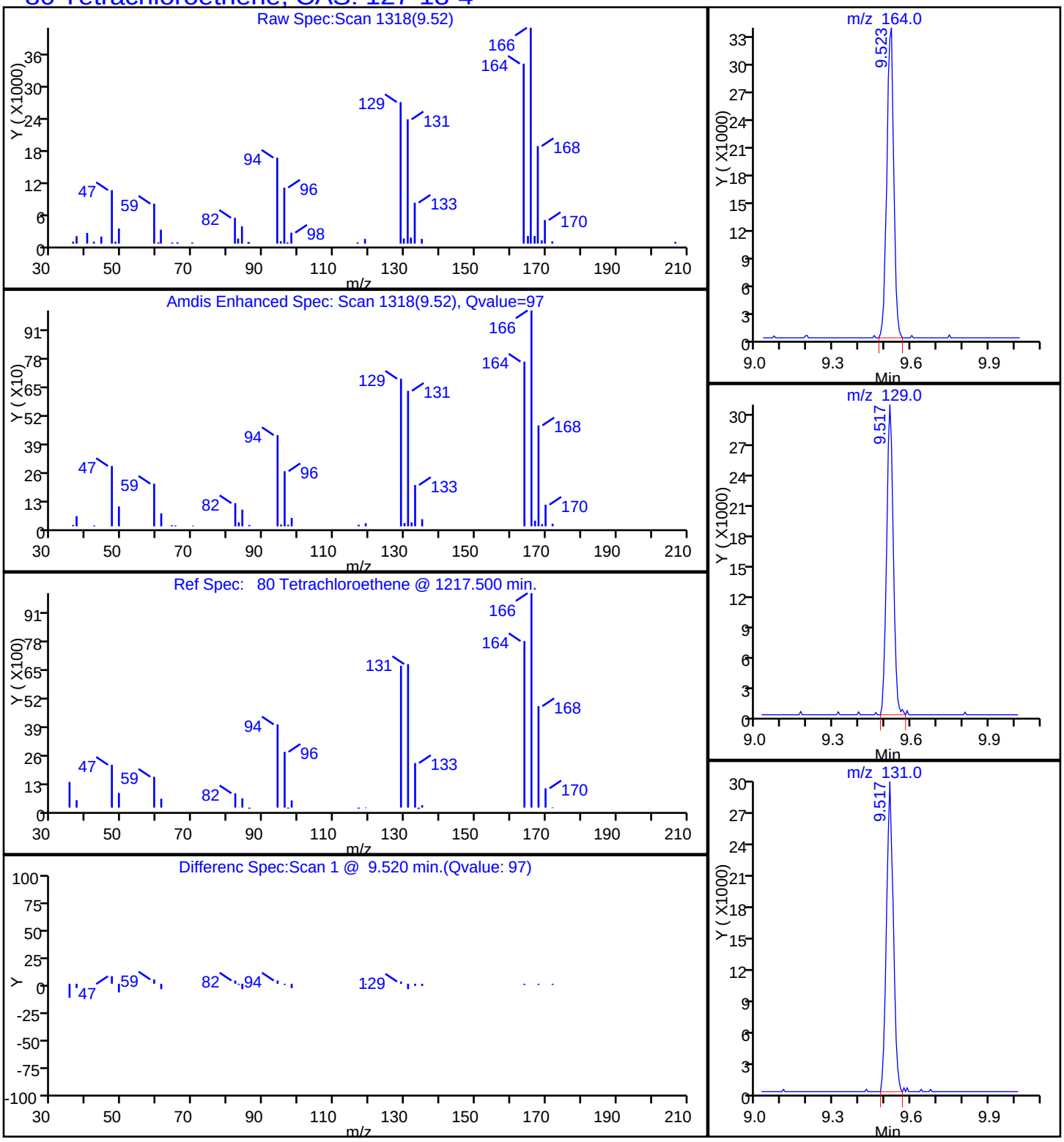
Report Date: 16-Oct-2015 08:23:53 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151015-9022.b\51015021.D

Injection Date:	15-Oct-2015 20:25:30	Instrument ID:	CHHP5		
Lims ID:	180-48435-C-4	Lab Sample ID:	180-48435-4		
Client ID:	HD-CW-17-0/1-0				
Operator ID:	001562	ALS Bottle#:	20	Worklist Smp#:	21
Purge Vol:	5.000 mL	Dil. Factor:	5.0000		
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.: 180-48435-1

SDG No.:

Client Sample ID: HD-CW-20-0/1-0 | Lab Sample ID: 180-48435-5

Matrix: Water | Lab File ID: 51015022.D

Analysis Method: 8260C | Date Collected: 10/05/2015 06:25

Sample wt/vol: 5(mL) | Date Analyzed: 10/15/2015 20:49

Soil Aliquot Vol: | Dilution Factor: 50

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 157127 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	ND		50	14
75-01-4	Vinyl chloride	ND	^c	50	11
74-83-9	Bromomethane	ND	^c	50	16
75-00-3	Chloroethane	ND	^c	50	11
75-35-4	1,1-Dichloroethene	17	J	50	15
67-64-1	Acetone	ND	^c	250	130
75-15-0	Carbon disulfide	ND		50	11
75-09-2	Methylene Chloride	ND		50	6.3
156-60-5	trans-1,2-Dichloroethene	ND		50	8.5
1634-04-4	Methyl tert-butyl ether	ND		50	9.2
75-34-3	1,1-Dichloroethane	ND		50	5.8
156-59-2	cis-1,2-Dichloroethene	210		50	12
74-97-5	Bromochloromethane	ND		50	9.0
78-93-3	2-Butanone (MEK)	ND		250	27
67-66-3	Chloroform	ND		50	8.5
71-55-6	1,1,1-Trichloroethane	77		50	14
56-23-5	Carbon tetrachloride	ND		50	6.8
71-43-2	Benzene	ND		50	5.3
107-06-2	1,2-Dichloroethane	ND		50	11
79-01-6	Trichloroethene	500		50	7.2
78-87-5	1,2-Dichloropropane	ND		50	4.7
75-27-4	Bromodichloromethane	ND		50	6.5
10061-01-5	cis-1,3-Dichloropropene	ND		50	9.3
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		250	26
108-88-3	Toluene	ND		50	7.5
10061-02-6	trans-1,3-Dichloropropene	ND		50	7.4
79-00-5	1,1,2-Trichloroethane	ND		50	10
127-18-4	Tetrachloroethene	1300		50	7.4
591-78-6	2-Hexanone	ND		250	8.0
124-48-1	Dibromochloromethane	ND		50	6.8
106-93-4	1,2-Dibromoethane (EDB)	ND		50	9.0
108-90-7	Chlorobenzene	ND		50	6.8
630-20-6	1,1,1,2-Tetrachloroethane	ND		50	14
100-41-4	Ethylbenzene	ND		50	11
1330-20-7	Xylenes, Total	ND		150	24
100-42-5	Styrene	ND		50	4.8

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-48435-1

SDG No.:

Client Sample ID: HD-CW-20-0/1-0 | Lab Sample ID: 180-48435-5

Matrix: Water | Lab File ID: 51015022.D

Analysis Method: 8260C | Date Collected: 10/05/2015 06:25

Sample wt/vol: 5(mL) | Date Analyzed: 10/15/2015 20:49

Soil Aliquot Vol: | Dilution Factor: 50

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 157127 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-25-2	Bromoform	ND		50	9.6
79-34-5	1,1,2,2-Tetrachloroethane	ND		50	10
107-13-1	Acrylonitrile	ND		1000	27
123-91-1	1,4-Dioxane	ND	^c	10000	1700

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	106		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)	92		70-128

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151015-9022.b\51015022.D
Lims ID: 180-48435-B-5 Lab Sample ID: 180-48435-5
Client ID: HD-CW-20-0/1-0
Sample Type: Client
Inject. Date: 15-Oct-2015 20:49:30 ALS Bottle#: 21 Worklist Smp#: 22
Purge Vol: 5.000 mL Dil. Factor: 50.0000
Sample Info: 180-48435-B-5, 50x
Misc. Info.: 180-0009022-022
Operator ID: 001562 Instrument ID: CHHP5

Method: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151015-9022.b\MSVOA_LL_CHHP5.m
Limit Group: VOA 8260C ICAL
Last Update: 16-Oct-2015 08:25:15 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: XAWRK003

First Level Reviewer: fergusond Date: 16-Oct-2015 08:25:15

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.265	4.273	-0.008	0	139833	1000.0	
* 2 Fluorobenzene (IS)	96	7.289	7.290	-0.001	97	325058	50.0	
* 3 Chlorobenzene-d5	119	10.391	10.386	0.005	90	73804	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.733	12.729	0.004	97	94555	50.0	
$ 5 Dibromofluoromethane (Surr	113	6.565	6.554	0.011	93	73809	46.2	
$ 6 1,2-Dichloroethane-d4 (Sur	65	6.942	6.931	0.011	0	116128	53.0	
$ 7 Toluene-d8 (Surr)	98	8.937	8.939	-0.002	95	295202	51.8	
$ 8 4-Bromofluorobenzene (Surr	95	11.571	11.573	-0.002	87	93872	43.7	
12 Chloromethane	50		1.772				ND	
13 Vinyl chloride	62		1.912				ND	
15 Bromomethane	94		2.241				ND	
16 Chloroethane	64		2.399				ND	
22 1,1-Dichloroethene	96	3.383	3.330	0.053	52	3128	1.73	M
24 Acetone	43		3.439				ND	
26 Carbon disulfide	76		3.640				ND	
31 Methylene Chloride	84		4.139				ND	
33 Acrylonitrile	53		4.522				ND	
34 trans-1,2-Dichloroethene	96		4.559				ND	
35 Methyl tert-butyl ether	73		4.577				ND	
37 1,1-Dichloroethane	63		5.197				ND	
45 cis-1,2-Dichloroethene	96	5.950	5.946	0.004	83	43510	20.7	
46 2-Butanone (MEK)	43		5.952				ND	
49 Chlorobromomethane	128		6.231				ND	
52 Chloroform	83		6.377				ND	
53 1,1,1-Trichloroethane	97	6.546	6.536	0.010	92	19120	7.73	
56 Carbon tetrachloride	117		6.718				ND	
58 Benzene	78		6.943				ND	
59 1,2-Dichloroethane	62		7.016				ND	
64 Trichloroethene	130	7.678	7.673	0.005	97	97297	49.6	
67 1,2-Dichloropropane	63		7.947				ND	
70 1,4-Dioxane	88		8.026				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
71 Dichlorobromomethane	83		8.233				ND	
74 cis-1,3-Dichloropropene	75		8.671				ND	
75 4-Methyl-2-pentanone (MIBK	43		8.823				ND	
76 Toluene	91		9.006				ND	
77 trans-1,3-Dichloropropene	75		9.255				ND	
79 1,1,2-Trichloroethane	97		9.444				ND	
80 Tetrachloroethene	164	9.521	9.517	0.004	97	189322	133.5	
82 2-Hexanone	43		9.663				ND	
84 Chlorodibromomethane	129		9.815				ND	
85 Ethylene Dibromide	107		9.930				ND	
87 Chlorobenzene	112		10.417				ND	
89 1,1,1,2-Tetrachloroethane	131		10.514				ND	
90 Ethylbenzene	106		10.520				ND	
91 m-Xylene & p-Xylene	106		10.654				ND	
92 o-Xylene	106		11.031				ND	
93 Styrene	104		11.050				ND	
94 Bromoform	173		11.232				ND	
99 1,1,2,2-Tetrachloroethane	83		11.707				ND	
S 133 Xylenes, Total	106		1.000				ND	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

VOA8260INT_00043	Amount Added:	2.00	Units: uL	Run Reagent
VOA8260SURR_00043	Amount Added:	2.00	Units: uL	Run Reagent

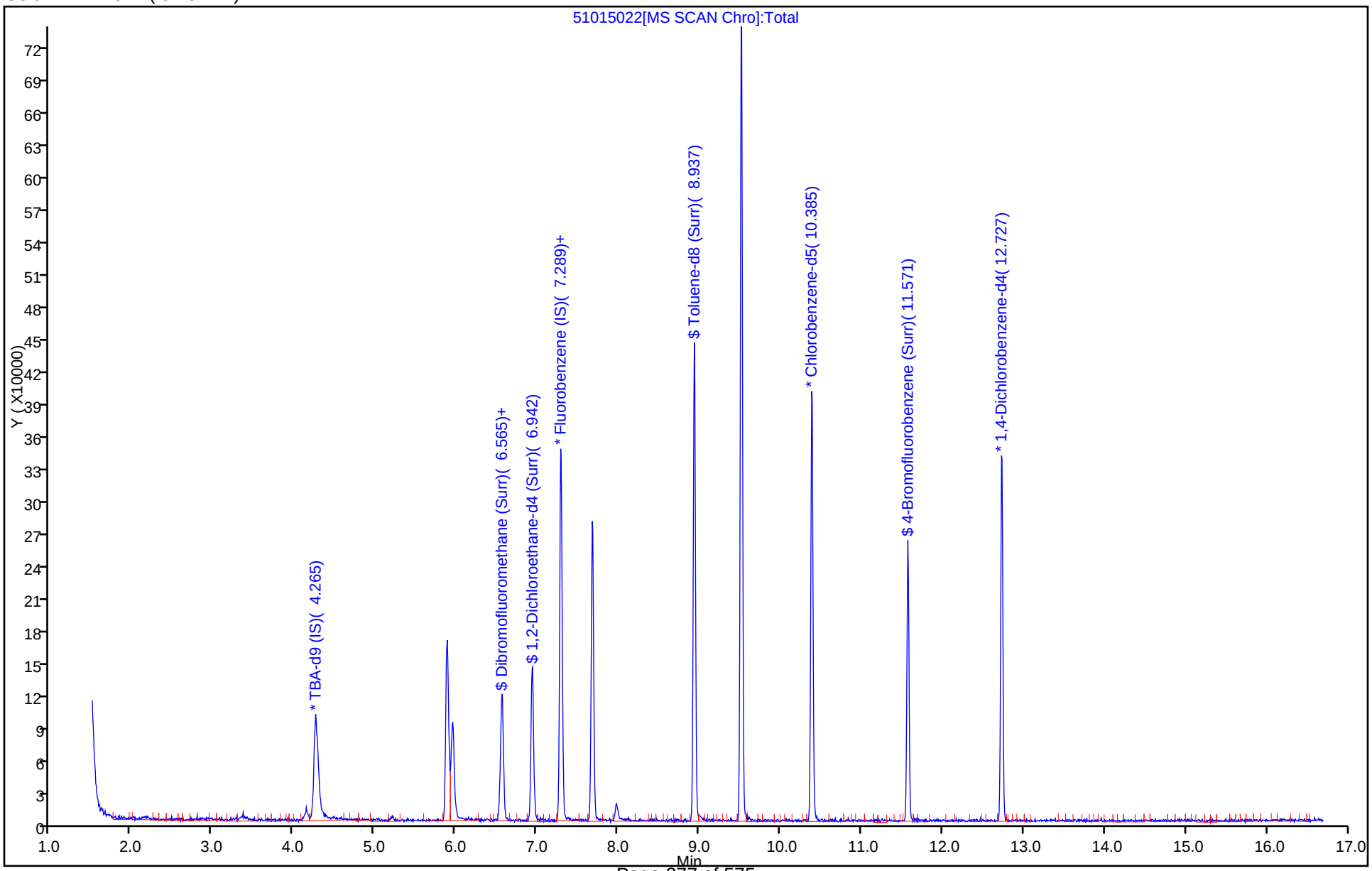
Report Date: 16-Oct-2015 08:25:16 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151015-9022.b\51015022.D

Injection Date:	15-Oct-2015 20:49:30	Instrument ID:	CHHP5	Operator ID:	001562
Lims ID:	180-48435-B-5	Lab Sample ID:	180-48435-5	Worklist Smp#:	22
Client ID:	HD-CW-20-0/1-0				
Purge Vol:	5.000 mL	Dil. Factor:	50.0000	ALS Bottle#:	21
Method:	MSVOA_LL_CHHP5	Limit Group:	VOA 8260C ICAL		

Column: DB-624 (0.18 mm)



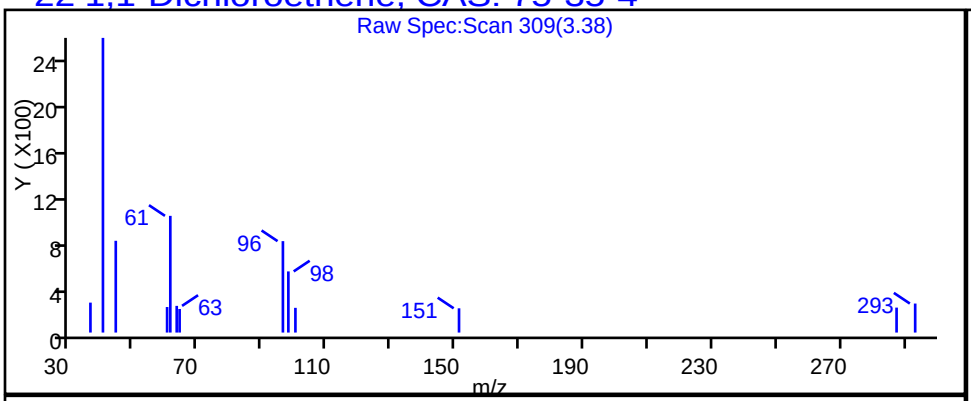
Report Date: 16-Oct-2015 08:25:16 Chrom Revision: 2.2 08-Sep-2015 13:41:46

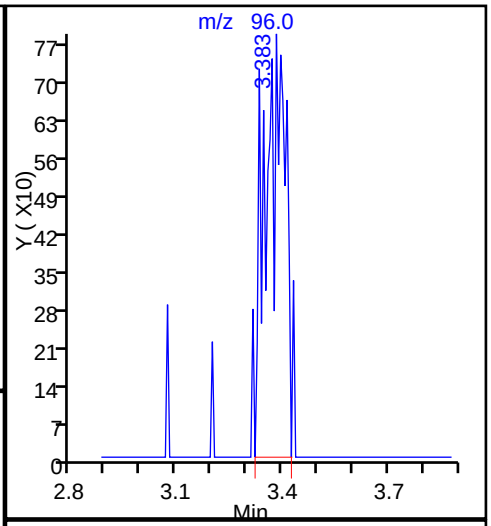
TestAmerica Pittsburgh

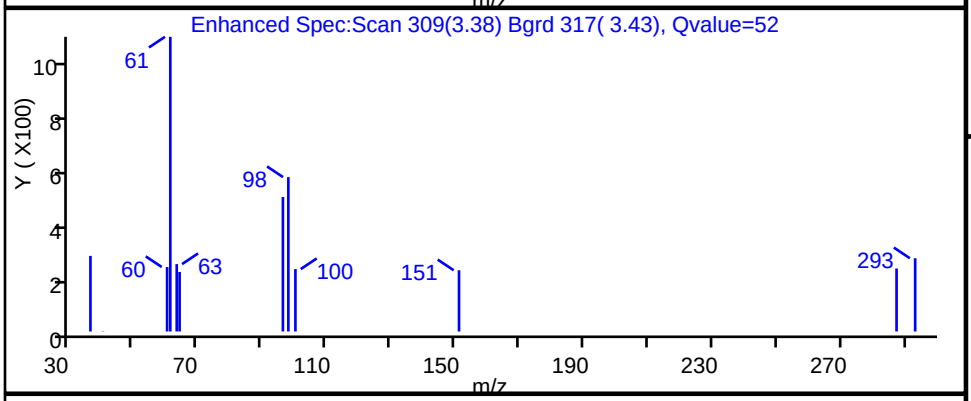
Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151015-9022.b\51015022.D

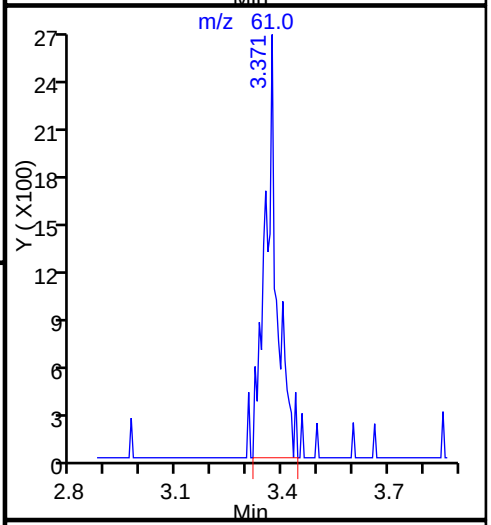
Injection Date:	15-Oct-2015 20:49:30	Instrument ID:	CHHP5		
Lims ID:	180-48435-B-5	Lab Sample ID:	180-48435-5		
Client ID:	HD-CW-20-0/1-0				
Operator ID:	001562	ALS Bottle#:	21	Worklist Smp#:	22
Purge Vol:	5.000 mL	Dil. Factor:	50.0000		
Method:	MSVOA_LL_CHHP5	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

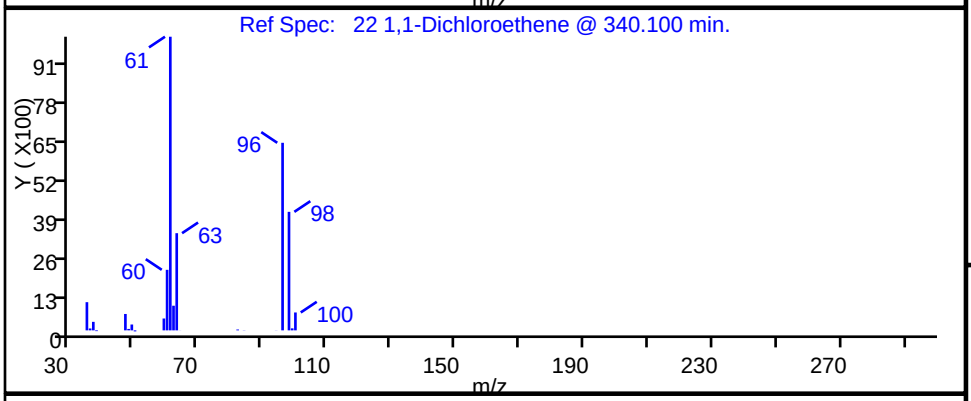
22 1,1-Dichloroethene, CAS: 75-35-4

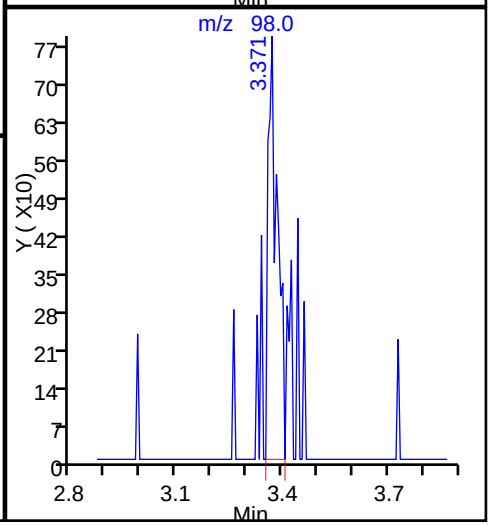


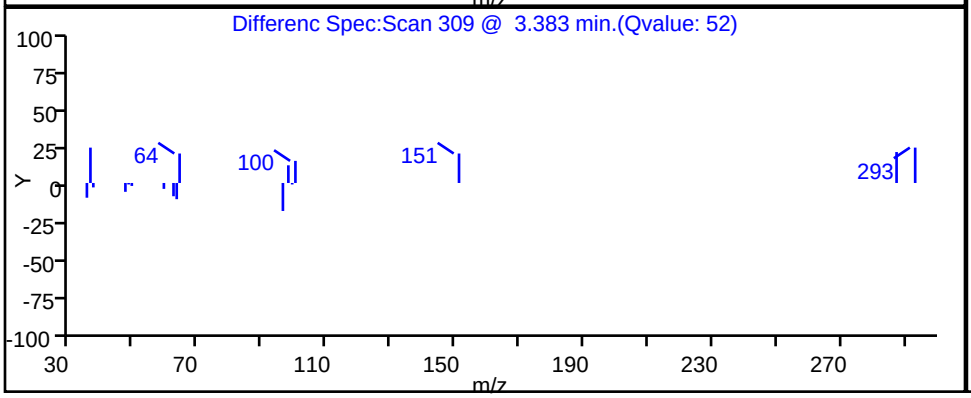












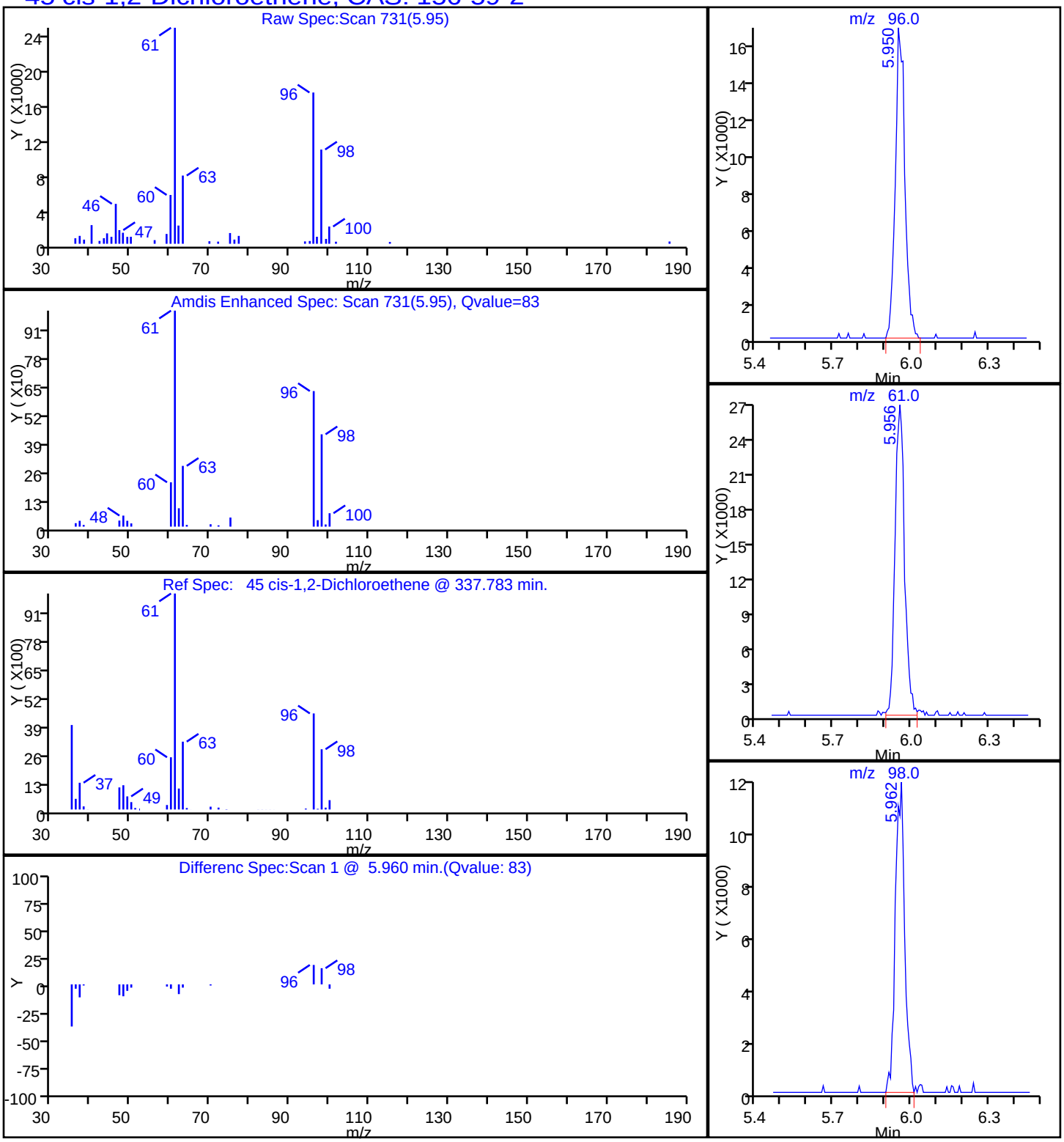
Report Date: 16-Oct-2015 08:25:16 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151015-9022.b\51015022.D

Injection Date:	15-Oct-2015 20:49:30	Instrument ID:	CHHP5		
Lims ID:	180-48435-B-5	Lab Sample ID:	180-48435-5		
Client ID:	HD-CW-20-0/1-0				
Operator ID:	001562	ALS Bottle#:	21	Worklist Smp#:	22
Purge Vol:	5.000 mL	Dil. Factor:	50.0000		
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



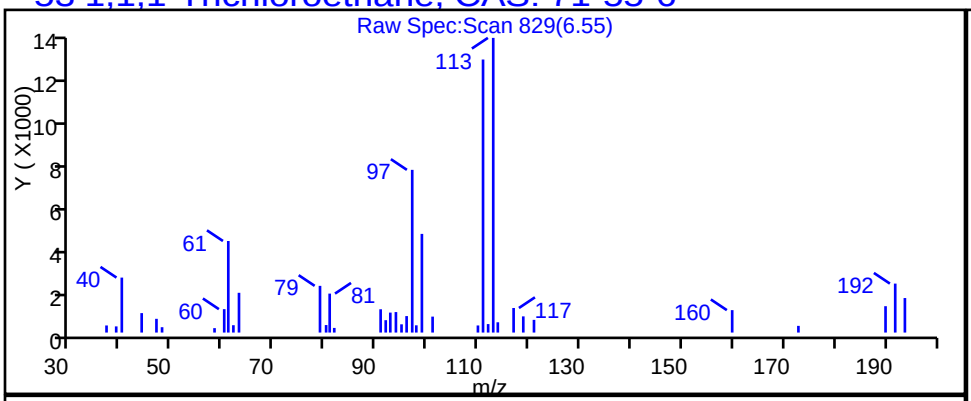
Report Date: 16-Oct-2015 08:25:16 Chrom Revision: 2.2 08-Sep-2015 13:41:46

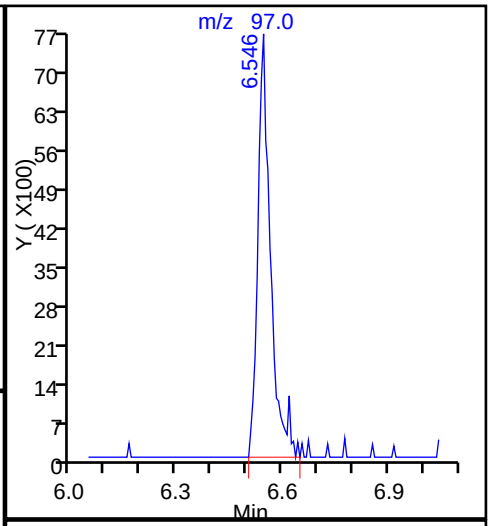
TestAmerica Pittsburgh

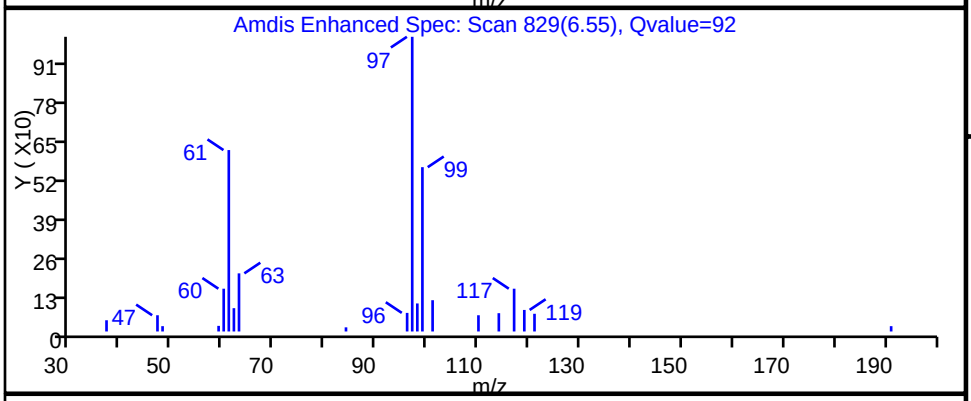
Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151015-9022.b\51015022.D

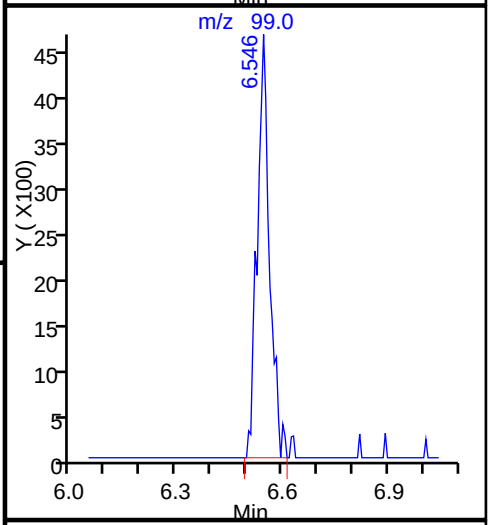
Injection Date:	15-Oct-2015 20:49:30	Instrument ID:	CHHP5		
Lims ID:	180-48435-B-5	Lab Sample ID:	180-48435-5		
Client ID:	HD-CW-20-0/1-0				
Operator ID:	001562	ALS Bottle#:	21	Worklist Smp#:	22
Purge Vol:	5.000 mL	Dil. Factor:	50.0000		
Method:	MSVOA_LL_CHHP5	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

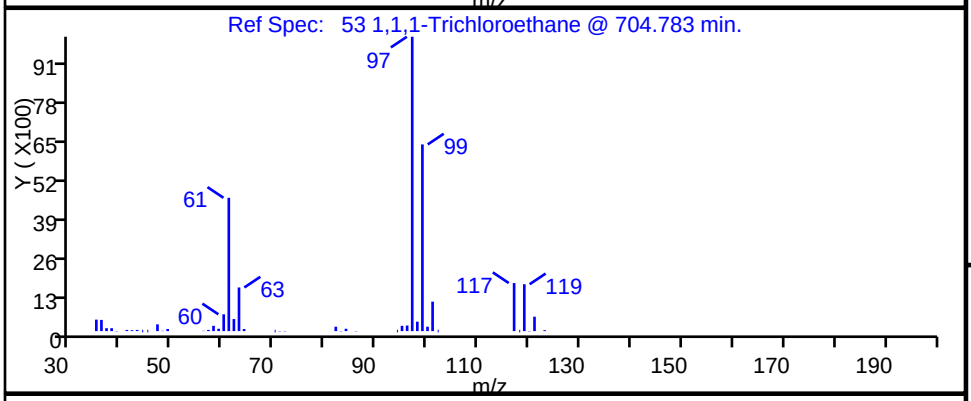
53 1,1,1-Trichloroethane, CAS: 71-55-6

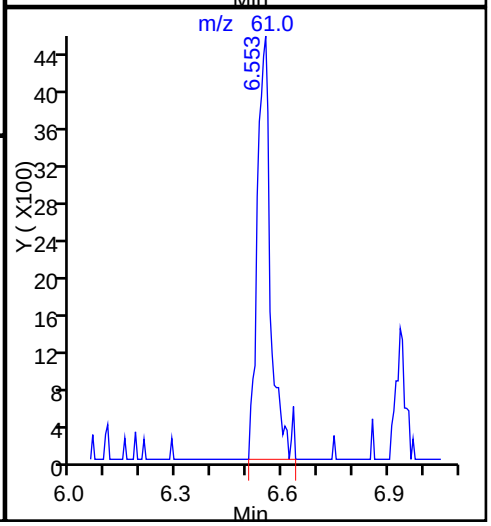


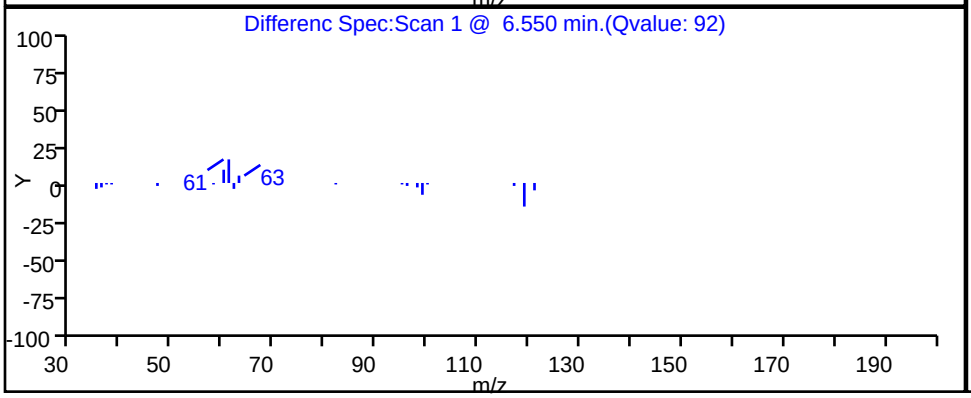












Report Date: 16-Oct-2015 08:25:16 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151015-9022.b\51015022.D

Injection Date: 15-Oct-2015 20:49:30 Instrument ID: CHHP5

Lims ID: 180-48435-B-5 Lab Sample ID: 180-48435-5

Client ID: HD-CW-20-0/1-0

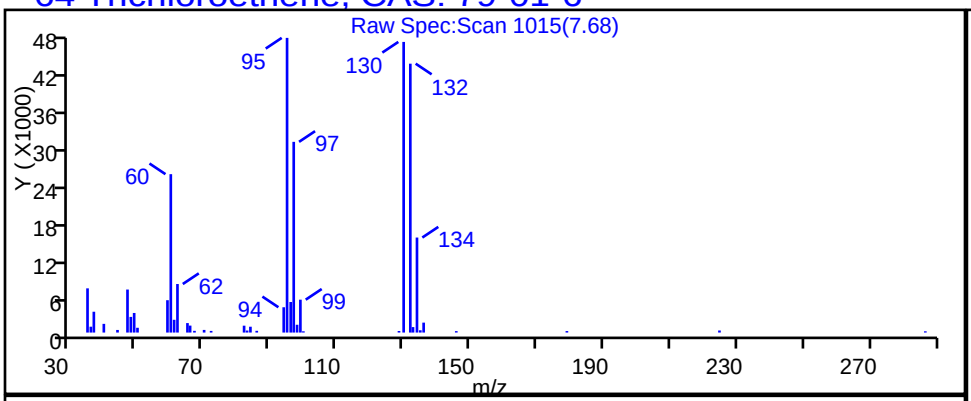
Operator ID: 001562 ALS Bottle#: 21 Worklist Smp#: 22

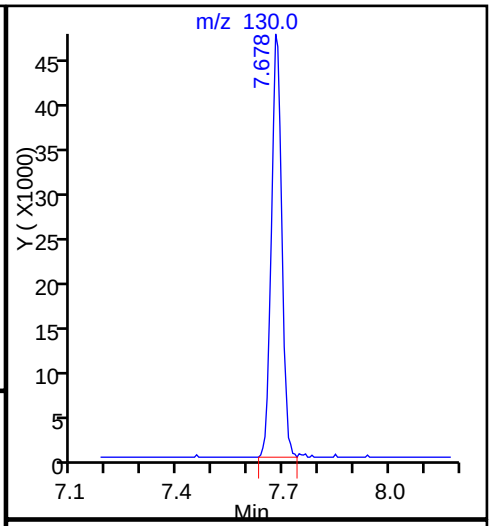
Purge Vol: 5.000 mL Dil. Factor: 50.0000

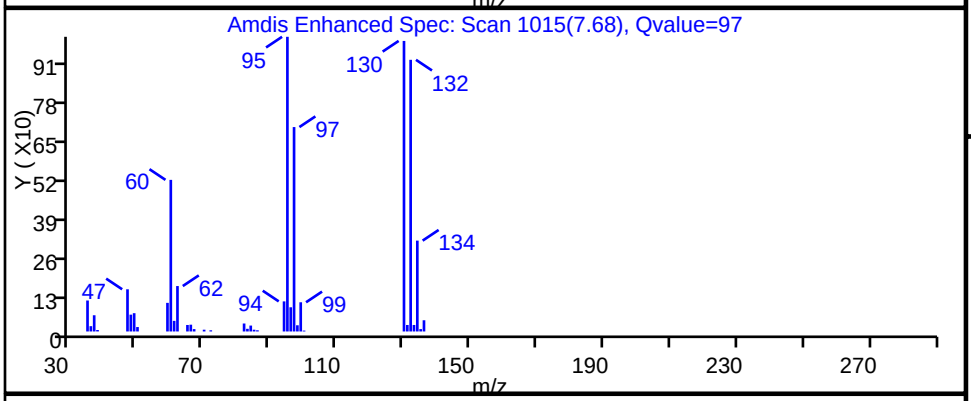
Method: MSVOA_LL_CHHP5 Limit Group: VOA 8260C ICAL

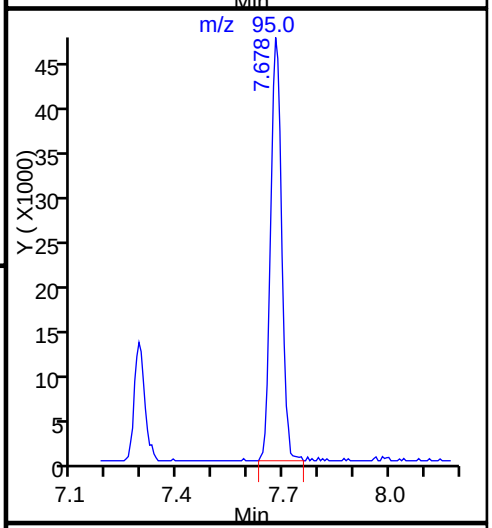
Column: DB-624 (0.18 mm) Detector MS SCAN

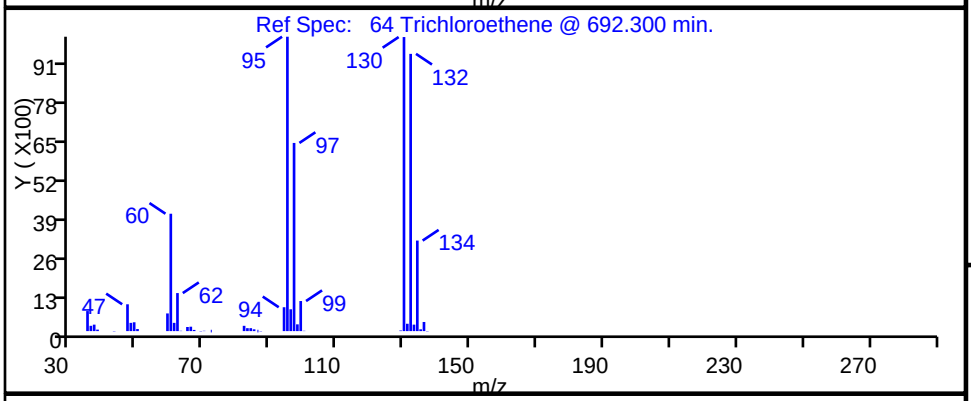
64 Trichloroethene, CAS: 79-01-6

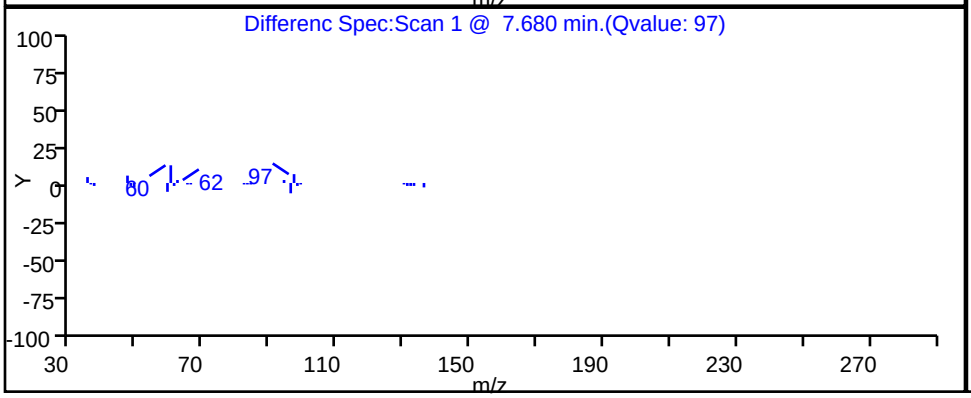


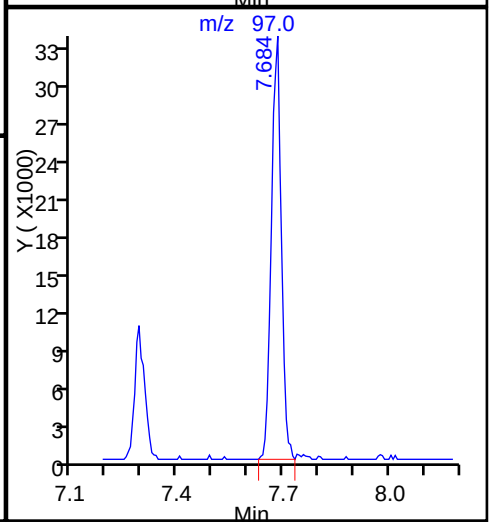












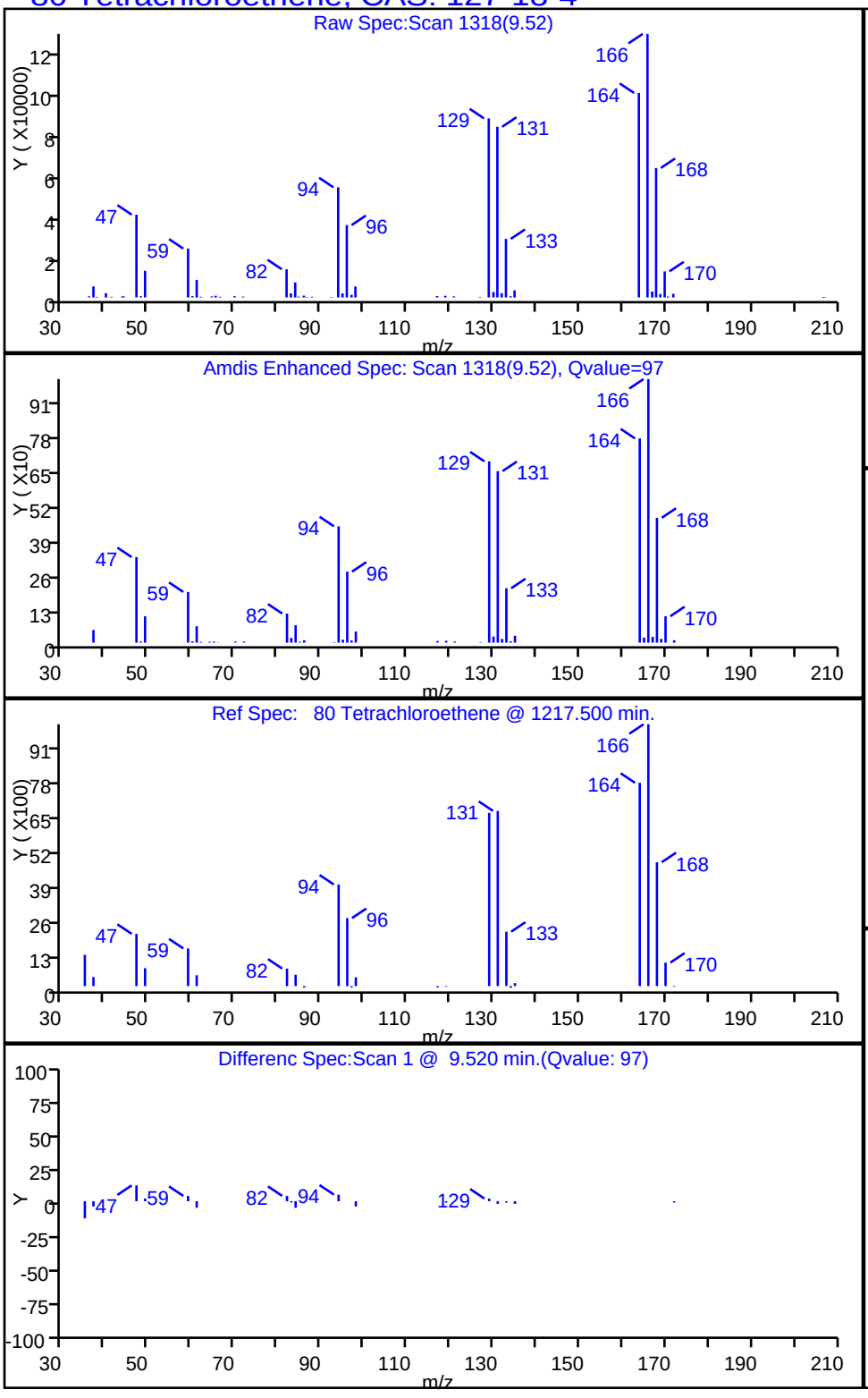
Report Date: 16-Oct-2015 08:25:16 Chrom Revision: 2.2 08-Sep-2015 13:41:46

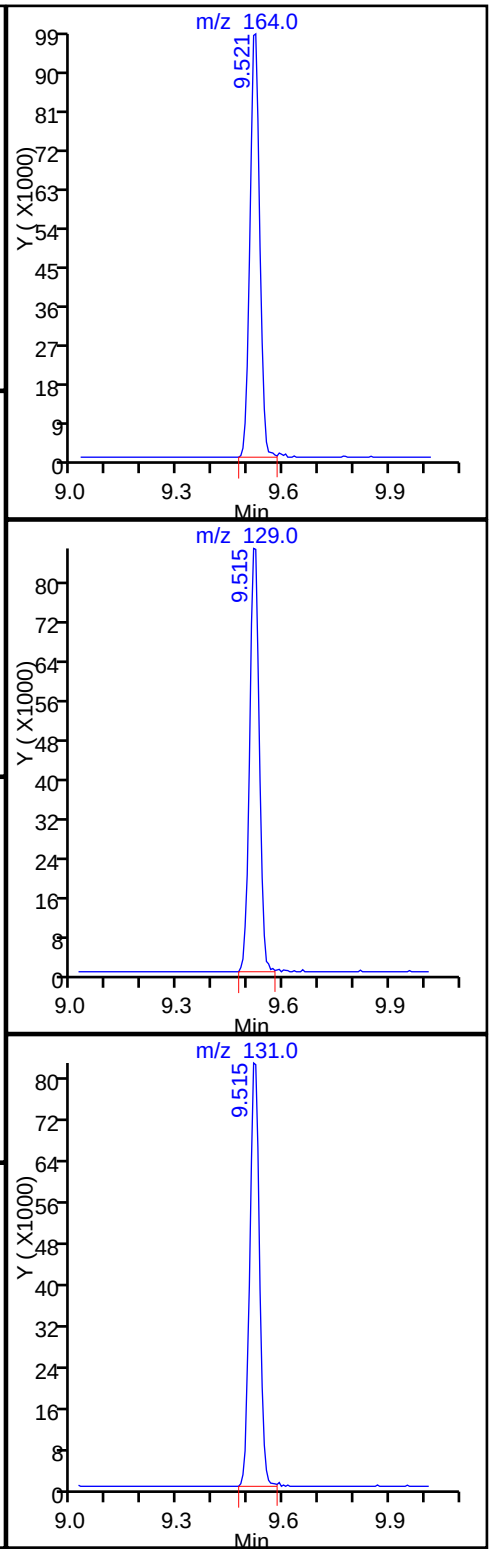
TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151015-9022.b\51015022.D

Injection Date:	15-Oct-2015 20:49:30	Instrument ID:	CHHP5		
Lims ID:	180-48435-B-5	Lab Sample ID:	180-48435-5		
Client ID:	HD-CW-20-0/1-0				
Operator ID:	001562	ALS Bottle#:	21	Worklist Smp#:	22
Purge Vol:	5.000 mL	Dil. Factor:	50.0000		
Method:	MSVOA_LL_CHHP5	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

80 Tetrachloroethene, CAS: 127-18-4





Manual Integration/User Assign Peak Report

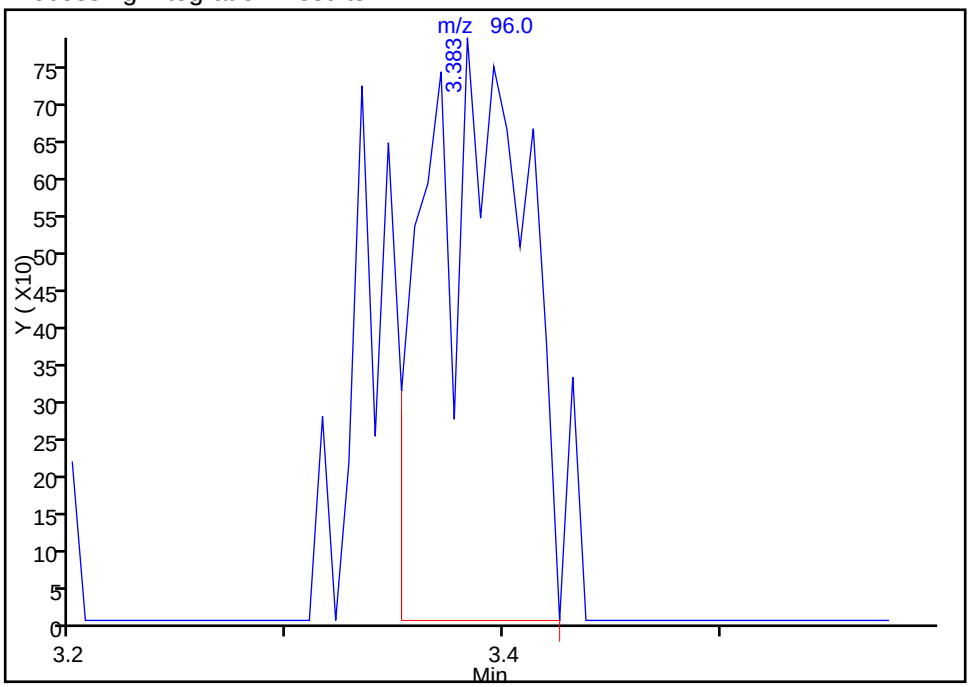
TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHHP5\20151015-9022.b\51015022.D				
Injection Date:	15-Oct-2015 20:49:30	Instrument ID:	CHHP5		
Lims ID:	180-48435-B-5	Lab Sample ID:	180-48435-5		
Client ID:	HD-CW-20-0/1-0				
Operator ID:	001562	ALS Bottle#:	21	Worklist Smp#:	22
Purge Vol:	5.000 mL	Dil. Factor:	50.0000		
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

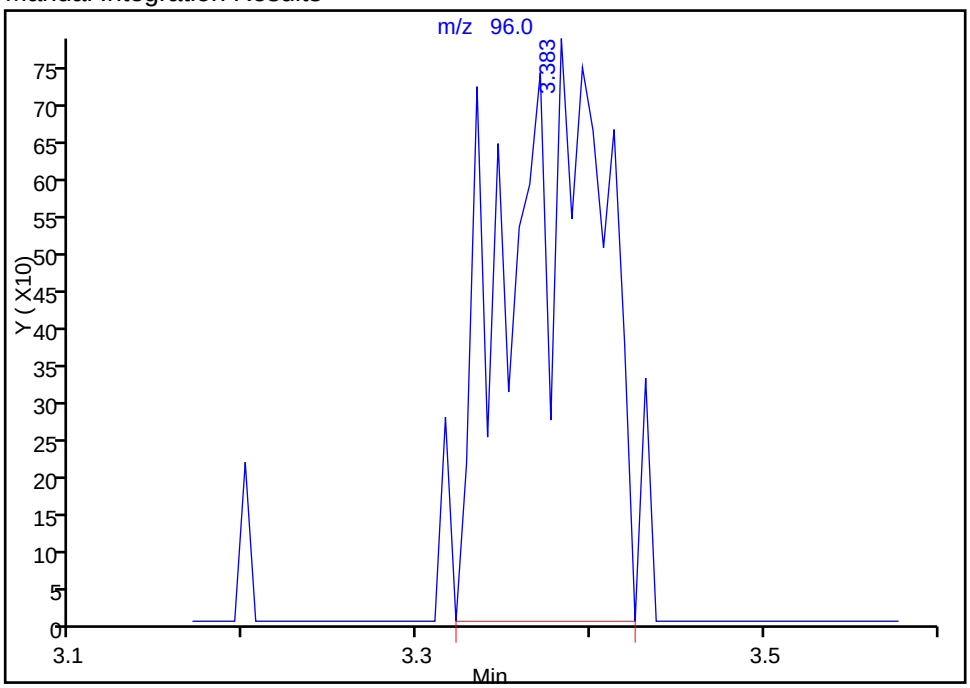
Processing Integration Results

RT: 3.38
Area: 2460
Amount: 1.358805
Amount Units: ng



Manual Integration Results

RT: 3.38
Area: 3128
Amount: 1.727781
Amount Units: ng



Reviewer: fergusond, 16-Oct-2015 08:25:15
Audit Action: Manually Integrated
Audit Reason: Incomplete Integration

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-48435-1

SDG No.:

Client Sample ID: HD-QC-5-0/1-2 | Lab Sample ID: 180-48435-6

Matrix: Water | Lab File ID: 51015023.D

Analysis Method: 8260C | Date Collected: 10/05/2015 12:00

Sample wt/vol: 5(mL) | Date Analyzed: 10/15/2015 21:13

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.: 157127 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	ND		1.0	0.28
75-01-4	Vinyl chloride	ND	^c	1.0	0.23
74-83-9	Bromomethane	ND	^c	1.0	0.31
75-00-3	Chloroethane	ND	^c	1.0	0.21
75-35-4	1,1-Dichloroethene	ND		1.0	0.30
67-64-1	Acetone	ND	^c	5.0	2.5
75-15-0	Carbon disulfide	ND		1.0	0.21
75-09-2	Methylene Chloride	ND		1.0	0.13
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.17
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.18
75-34-3	1,1-Dichloroethane	ND		1.0	0.12
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.24
74-97-5	Bromochloromethane	ND		1.0	0.18
78-93-3	2-Butanone (MEK)	ND		5.0	0.55
67-66-3	Chloroform	ND		1.0	0.17
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.29
56-23-5	Carbon tetrachloride	ND		1.0	0.14
71-43-2	Benzene	ND		1.0	0.11
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
79-01-6	Trichloroethene	ND		1.0	0.14
78-87-5	1,2-Dichloropropane	ND		1.0	0.095
75-27-4	Bromodichloromethane	ND		1.0	0.13
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.19
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	0.53
108-88-3	Toluene	ND		1.0	0.15
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.15
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.20
127-18-4	Tetrachloroethene	ND		1.0	0.15
591-78-6	2-Hexanone	ND		5.0	0.16
124-48-1	Dibromochloromethane	ND		1.0	0.14
106-93-4	1,2-Dibromoethane (EDB)	ND		1.0	0.18
108-90-7	Chlorobenzene	ND		1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	0.28
100-41-4	Ethylbenzene	ND		1.0	0.23
1330-20-7	Xylenes, Total	ND		3.0	0.49
100-42-5	Styrene	ND		1.0	0.097

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-48435-1

SDG No.:

Client Sample ID: HD-QC-5-0/1-2 | Lab Sample ID: 180-48435-6

Matrix: Water | Lab File ID: 51015023.D

Analysis Method: 8260C | Date Collected: 10/05/2015 12:00

Sample wt/vol: 5(mL) | Date Analyzed: 10/15/2015 21:13

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.: 157127 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-25-2	Bromoform	ND		1.0	0.19
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.20
107-13-1	Acrylonitrile	ND		20	0.55
123-91-1	1,4-Dioxane	ND	^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)	90		70-118
1868-53-7	Dibromofluoromethane (Surr)	98		70-128

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151015-9022.b\51015023.D
Lims ID: 180-48435-A-6 Lab Sample ID: 180-48435-6
Client ID: HD-QC-5-0/1-2
Sample Type: Client
Inject. Date: 15-Oct-2015 21:13:30 ALS Bottle#: 22 Worklist Smp#: 23
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 180-48435-A-6
Misc. Info.: 180-0009022-023
Operator ID: 001562 Instrument ID: CHHP5

Method: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151015-9022.b\MSVOA_LL_CHHP5.m
Limit Group: VOA 8260C ICAL
Last Update: 16-Oct-2015 08:25:59 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: XAWRK003

First Level Reviewer: fergusond Date: 16-Oct-2015 08:25:59

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.265	4.273	-0.008	0	140694	1000.0	
* 2 Fluorobenzene (IS)	96	7.289	7.290	-0.001	97	306214	50.0	
* 3 Chlorobenzene-d5	119	10.385	10.386	-0.001	92	67323	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.733	12.729	0.004	96	94451	50.0	
$ 5 Dibromofluoromethane (Surr	113	6.571	6.554	0.017	93	73357	48.8	
$ 6 1,2-Dichloroethane-d4 (Sur	65	6.936	6.931	0.005	0	108831	52.7	
$ 7 Toluene-d8 (Surr)	98	8.937	8.939	-0.002	95	283911	54.7	
$ 8 4-Bromofluorobenzene (Surr	95	11.571	11.573	-0.002	85	87974	44.9	
12 Chloromethane	50		1.772				ND	
13 Vinyl chloride	62		1.912				ND	
15 Bromomethane	94		2.241				ND	
16 Chloroethane	64		2.399				ND	
22 1,1-Dichloroethene	96		3.330				ND	
24 Acetone	43		3.439				ND	
26 Carbon disulfide	76		3.640				ND	
31 Methylene Chloride	84		4.139				ND	
33 Acrylonitrile	53		4.522				ND	
34 trans-1,2-Dichloroethene	96		4.559				ND	
35 Methyl tert-butyl ether	73		4.577				ND	
37 1,1-Dichloroethane	63		5.197				ND	
45 cis-1,2-Dichloroethene	96		5.946				ND	
46 2-Butanone (MEK)	43		5.952				ND	
49 Chlorobromomethane	128		6.231				ND	
52 Chloroform	83		6.377				ND	
53 1,1,1-Trichloroethane	97		6.536				ND	
56 Carbon tetrachloride	117		6.718				ND	
58 Benzene	78		6.943				ND	
59 1,2-Dichloroethane	62		7.016				ND	
64 Trichloroethene	130		7.673				ND	
67 1,2-Dichloropropane	63		7.947				ND	
70 1,4-Dioxane	88		8.026				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
71 Dichlorobromomethane	83		8.233				ND	
74 cis-1,3-Dichloropropene	75		8.671				ND	
75 4-Methyl-2-pentanone (MIBK	43		8.823				ND	
76 Toluene	91		9.006				ND	
77 trans-1,3-Dichloropropene	75		9.255				ND	
79 1,1,2-Trichloroethane	97		9.444				ND	
80 Tetrachloroethene	164		9.517				ND	
82 2-Hexanone	43		9.663				ND	
84 Chlorodibromomethane	129		9.815				ND	
85 Ethylene Dibromide	107		9.930				ND	
87 Chlorobenzene	112		10.417				ND	
89 1,1,1,2-Tetrachloroethane	131		10.514				ND	
90 Ethylbenzene	106		10.520				ND	
91 m-Xylene & p-Xylene	106		10.654				ND	
92 o-Xylene	106		11.031				ND	
93 Styrene	104		11.050				ND	
94 Bromoform	173		11.232				ND	
99 1,1,2,2-Tetrachloroethane	83		11.707				ND	
S 133 Xylenes, Total	106		1.000				ND	

Reagents:

VOA8260INT_00043	Amount Added:	2.00	Units: uL	Run Reagent
VOA8260SURR_00043	Amount Added:	2.00	Units: uL	Run Reagent

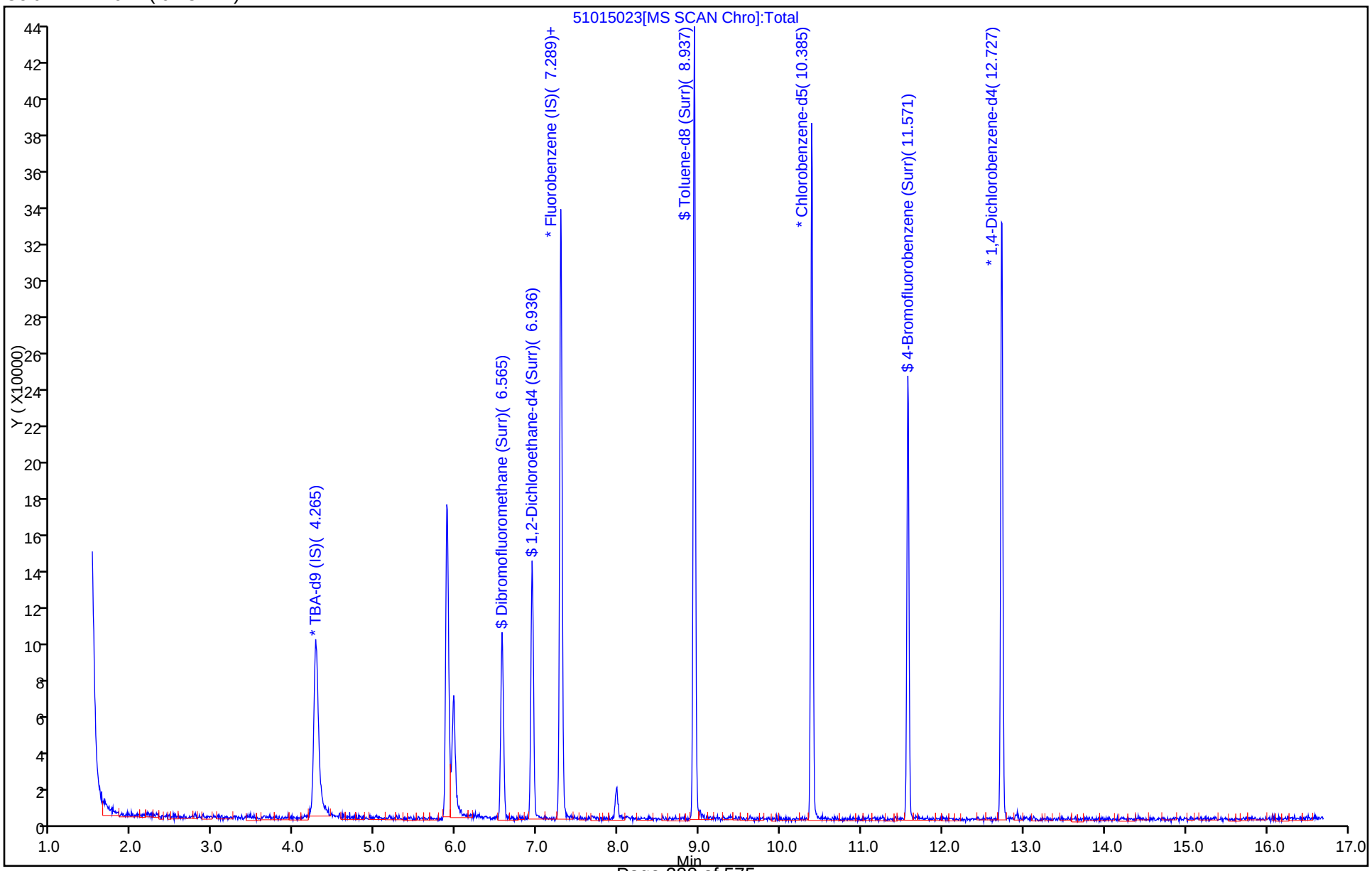
Report Date: 16-Oct-2015 08:25:59 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151015-9022.b\51015023.D

Injection Date:	15-Oct-2015 21:13:30	Instrument ID:	CHHP5	Operator ID:	001562
Lims ID:	180-48435-A-6	Lab Sample ID:	180-48435-6	Worklist Smp#:	23
Client ID:	HD-QC-5-0/1-2				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	22
Method:	MSVOA_LL_CHHP5	Limit Group:	VOA 8260C ICAL		

Column: DB-624 (0.18 mm)



FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Pittsburgh Job No.: 180-48435-1 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.: 180-48435-1 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.: 180-48435-1 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.: 180-48435-1 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.: 180-48435-1 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.: 180-48435-1 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.: 180-48435-1 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.: 180-48435-1 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.: 180-48435-1 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.: 180-48435-1 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.: 180-48435-1 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.: 180-48435-1 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.: 180-48435-1 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

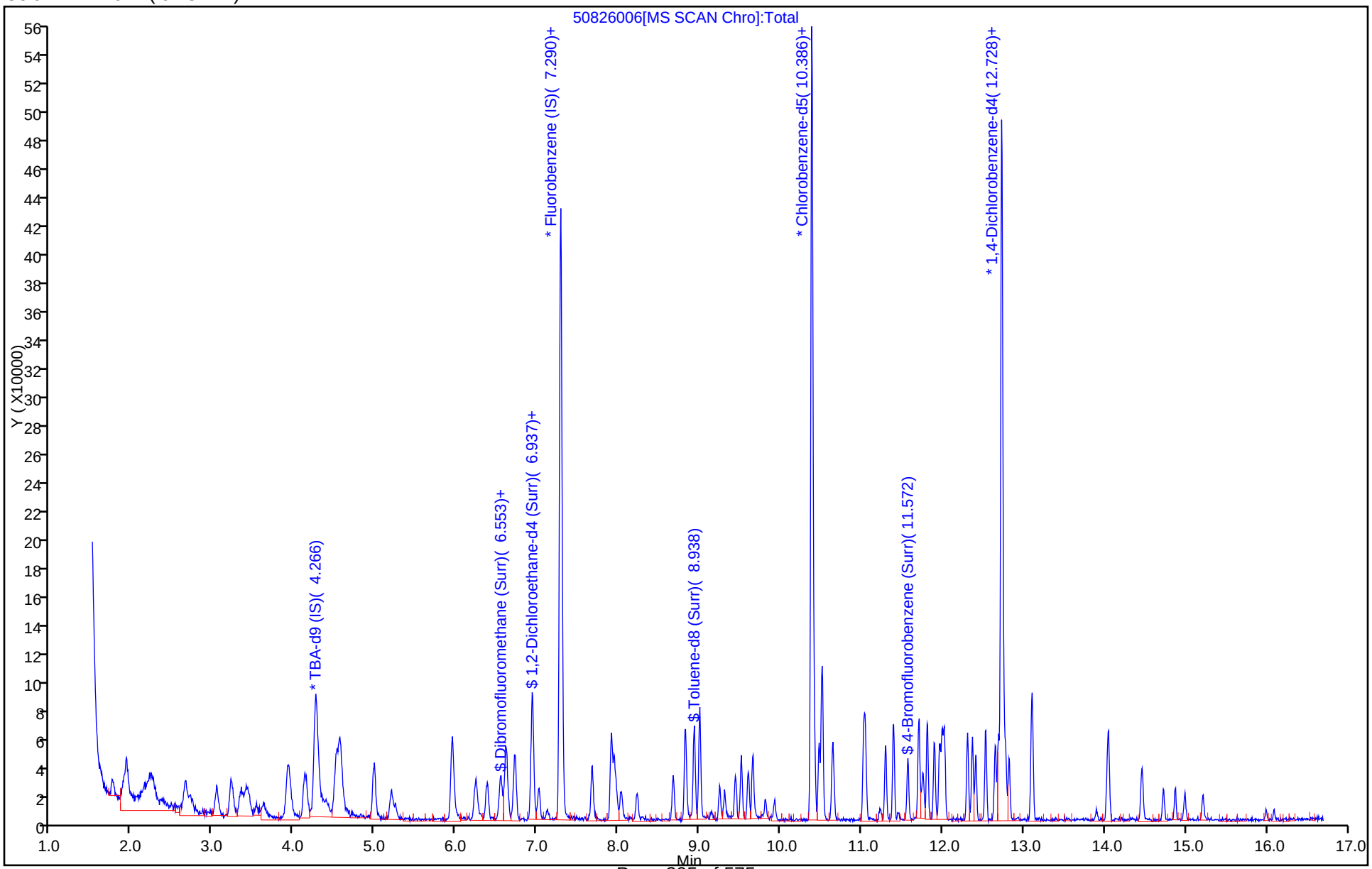
Report Date: 27-Aug-2015 12:16:53 Chrom Revision: 2.2 23-Jul-2015 08:26:08

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)



Manual Integration/User Assign Peak Report

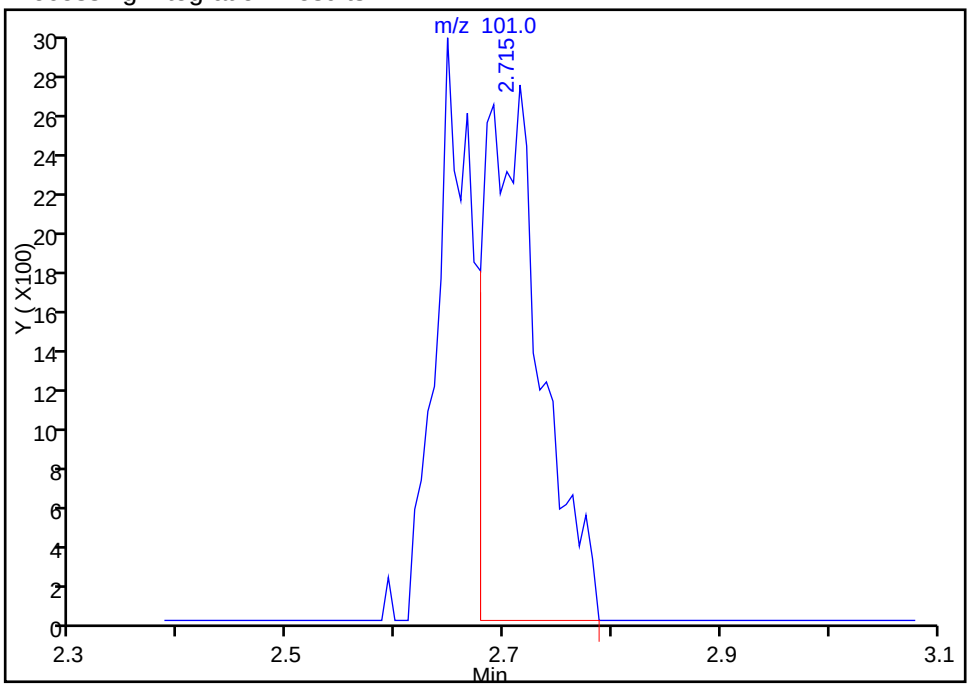
TestAmerica Pittsburgh

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

18 Trichlorofluoromethane, CAS: 75-69-4

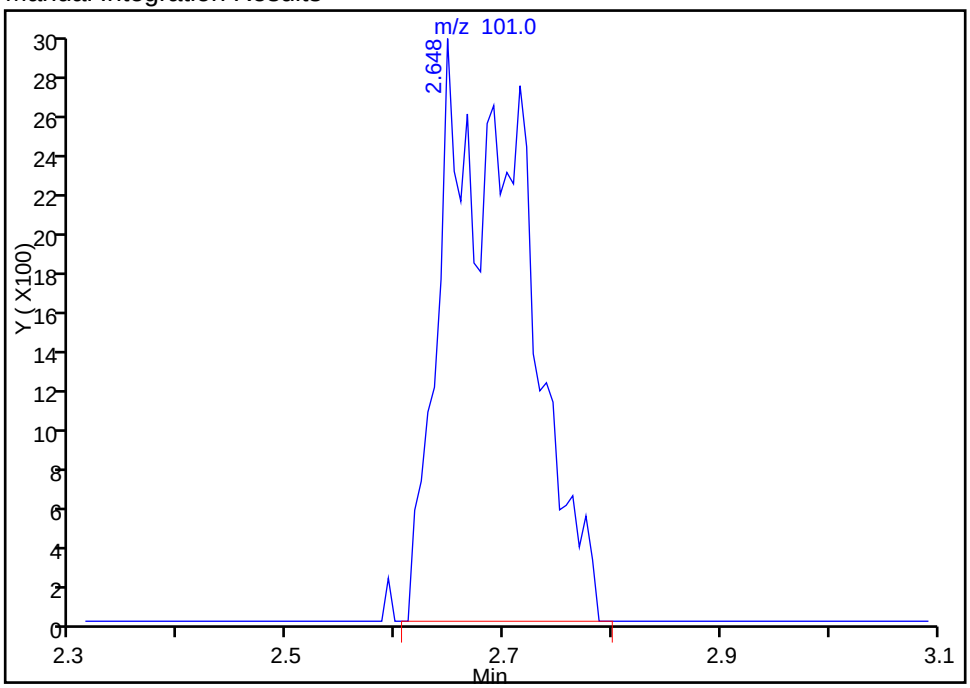
Processing Integration Results

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

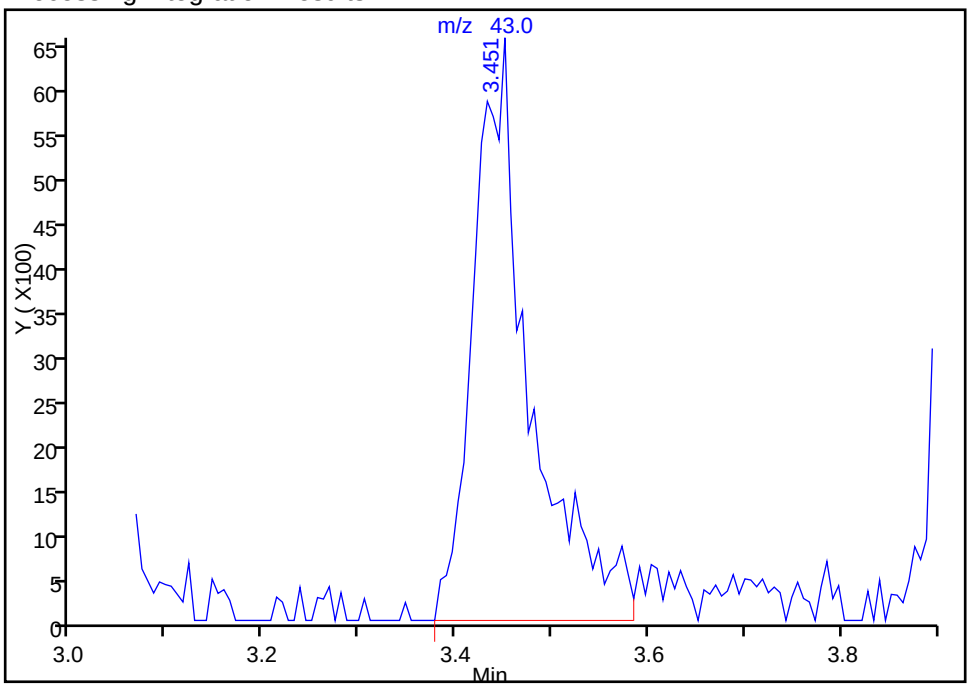
TestAmerica Pittsburgh

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

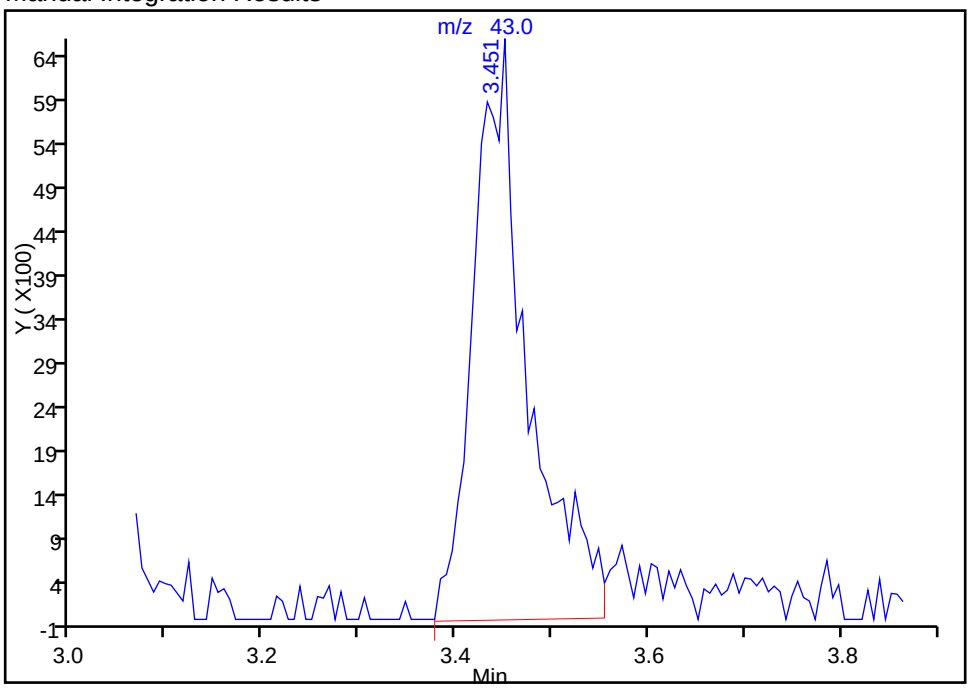
Processing Integration Results

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

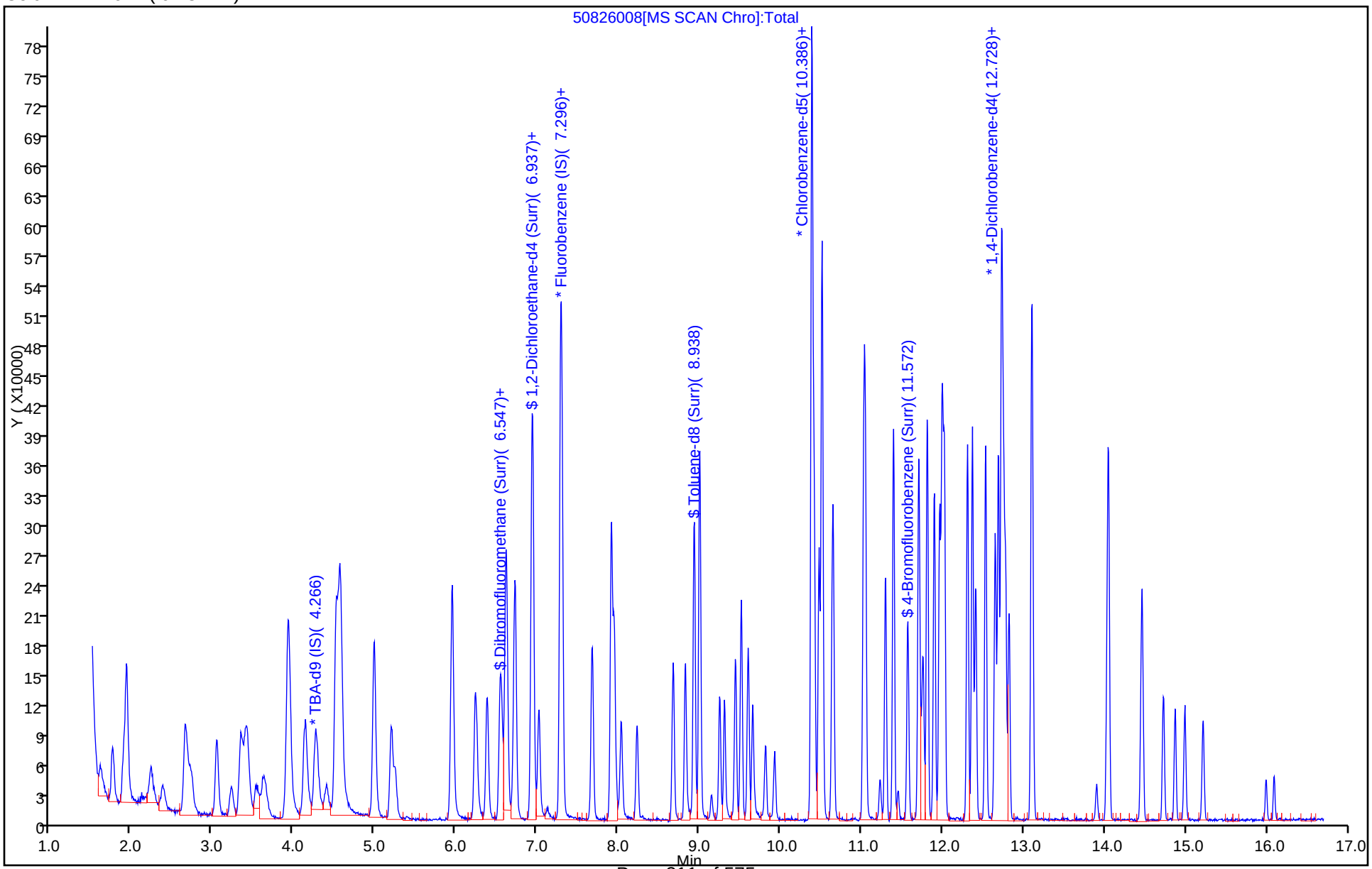
Report Date: 27-Aug-2015 11:47:19 Chrom Revision: 2.2 23-Jul-2015 08:26:08

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

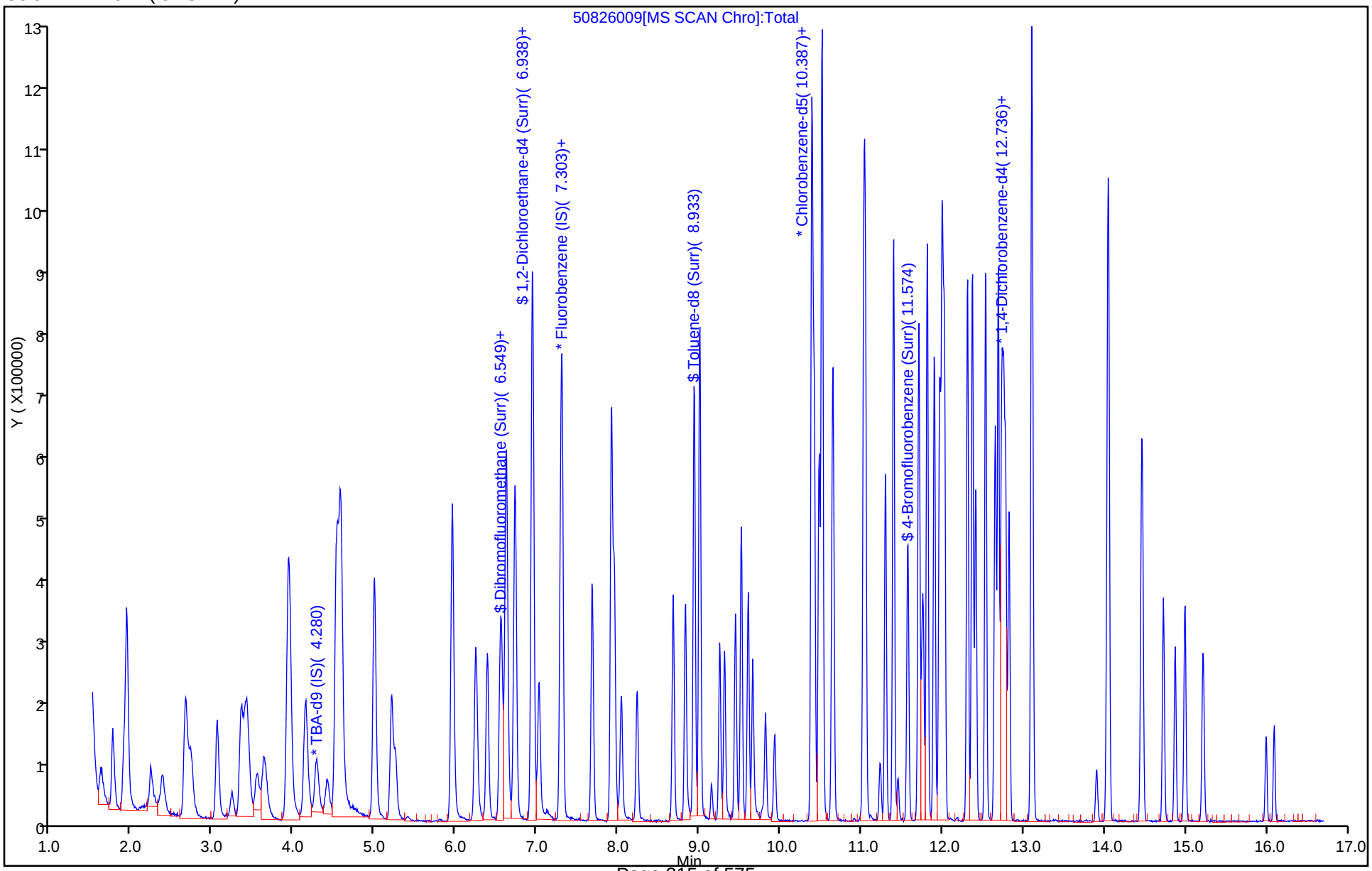
Report Date: 27-Aug-2015 12:16:00 Chrom Revision: 2.2 23-Jul-2015 08:26:08

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

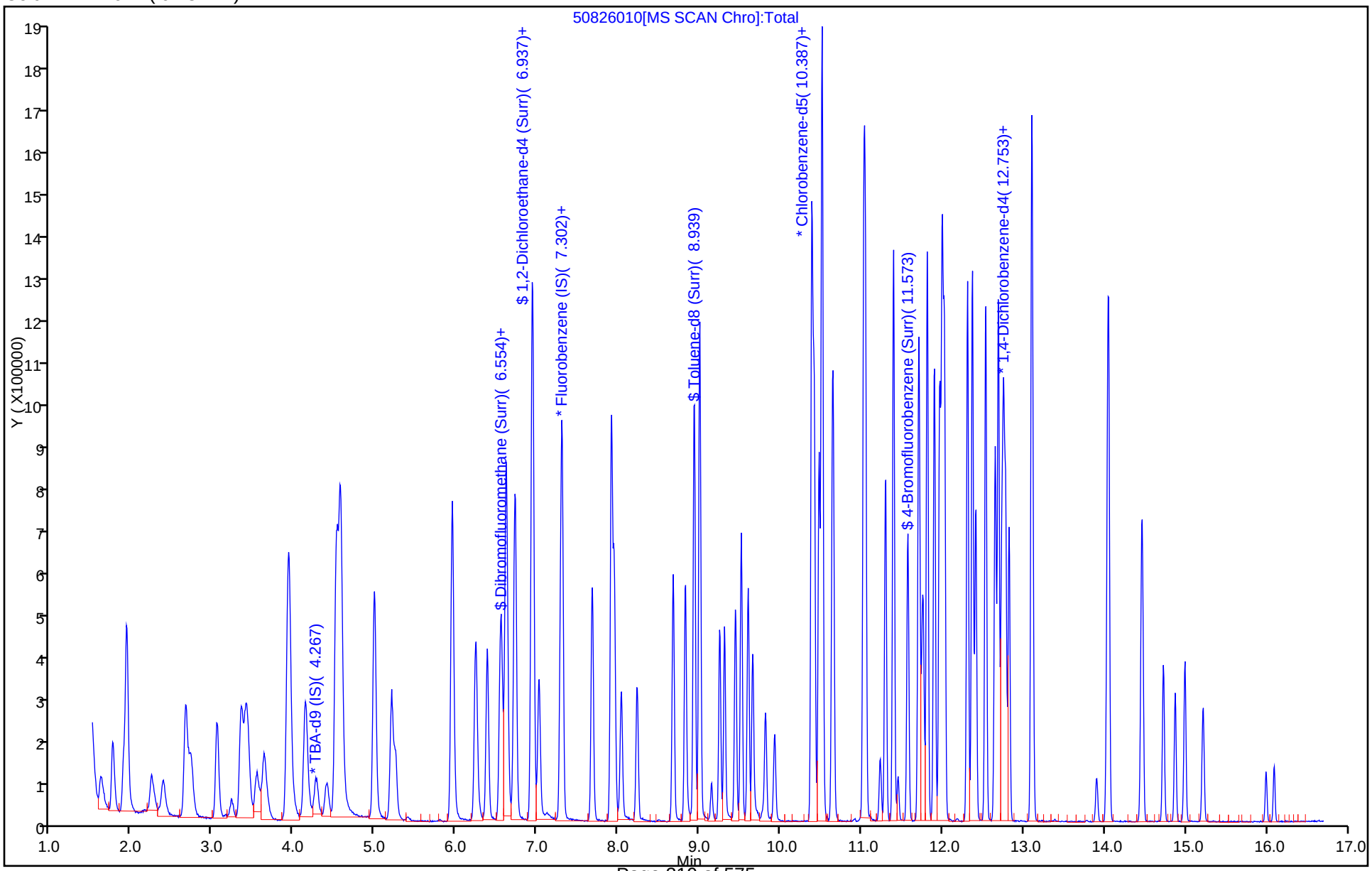
Report Date: 27-Aug-2015 11:49:42 Chrom Revision: 2.2 23-Jul-2015 08:26:08

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	

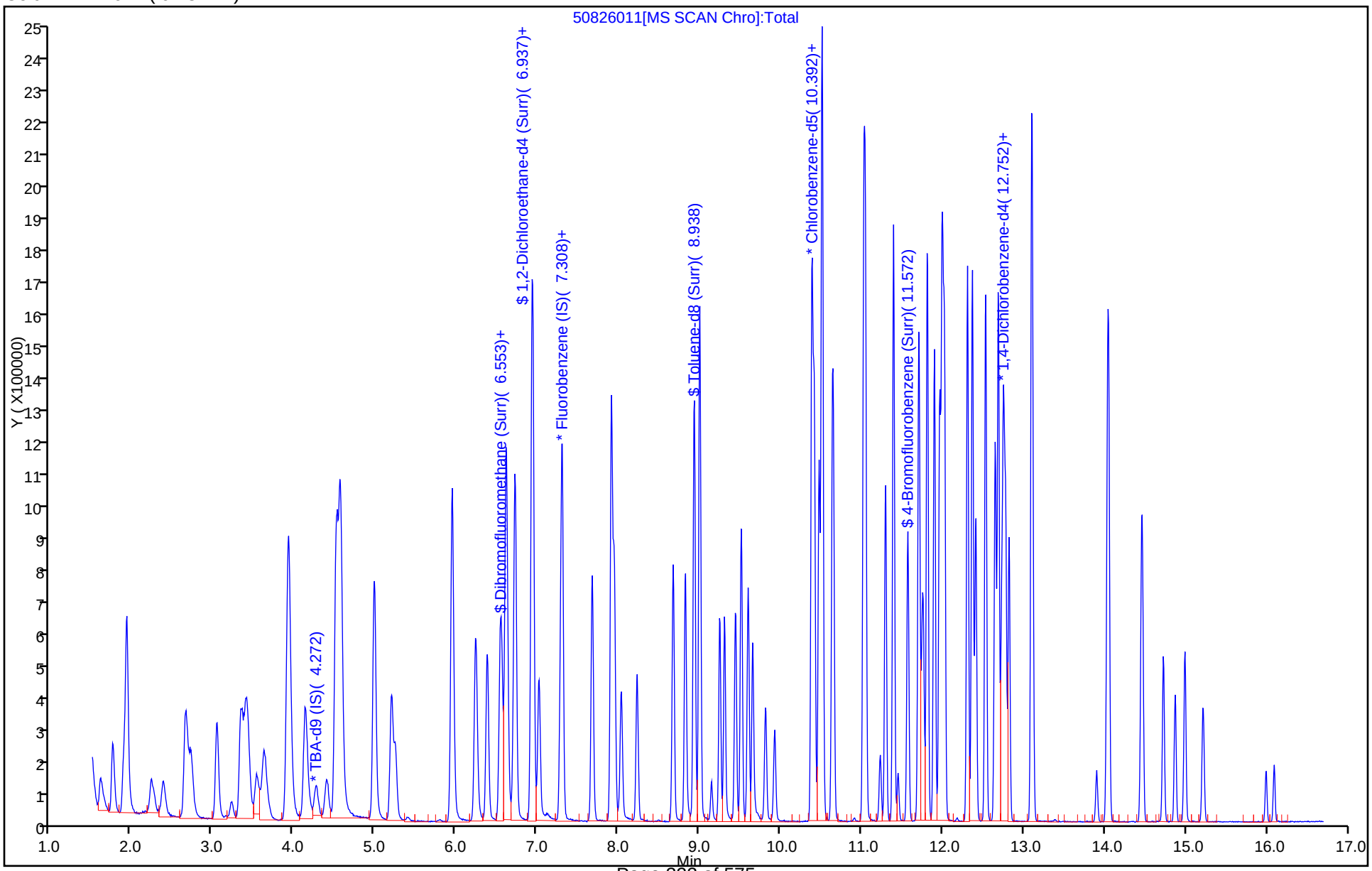
Report Date: 27-Aug-2015 11:44:06 Chrom Revision: 2.2 23-Jul-2015 08:26:08

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

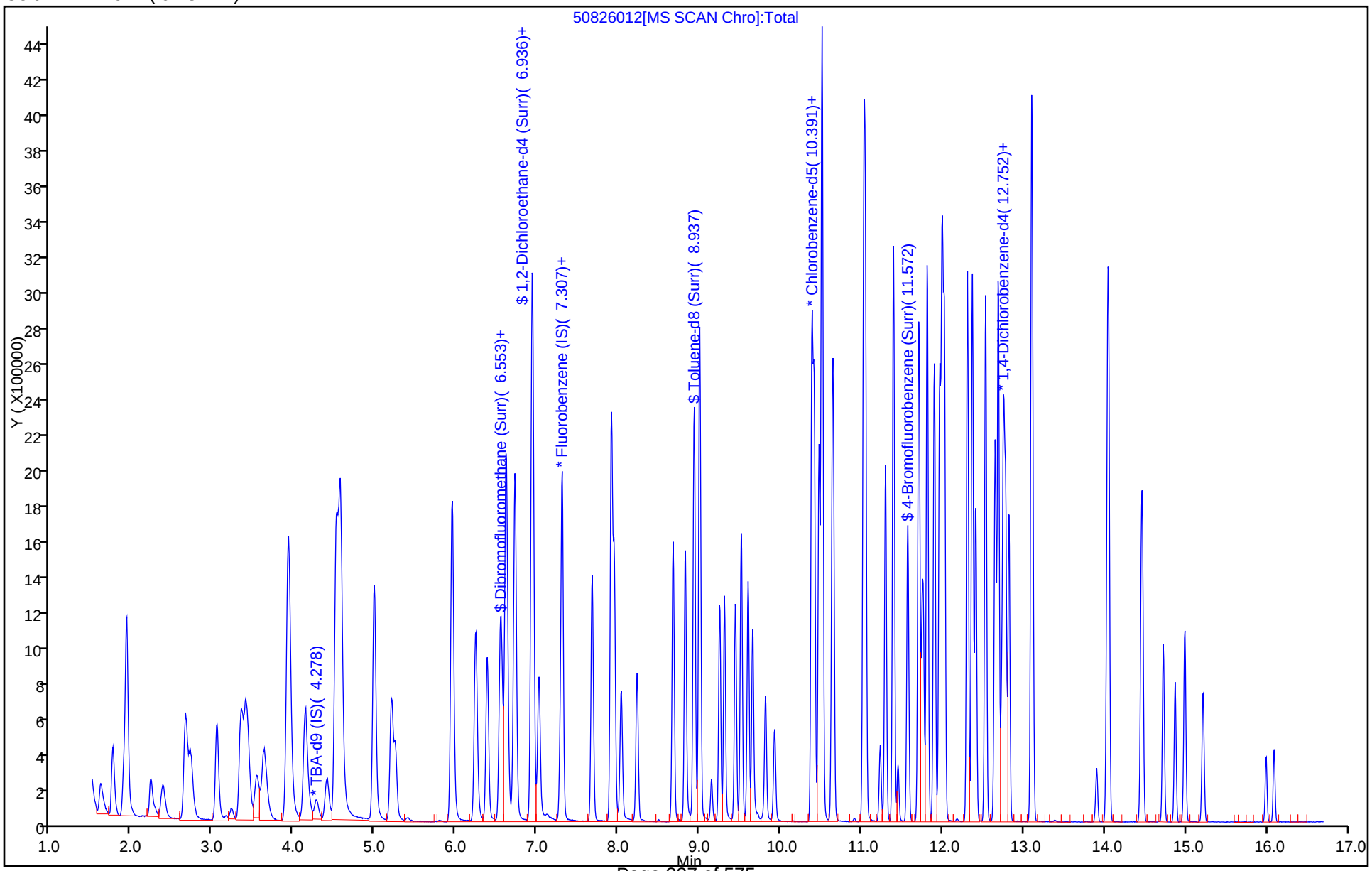
Report Date: 27-Aug-2015 11:50:07 Chrom Revision: 2.2 23-Jul-2015 08:26:08

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

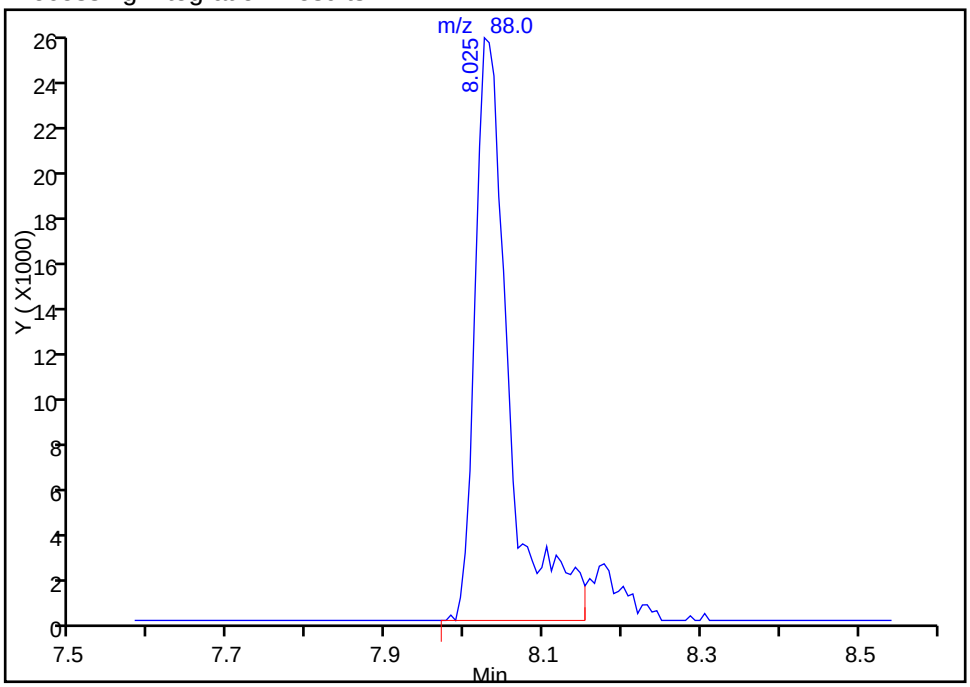
TestAmerica Pittsburgh

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

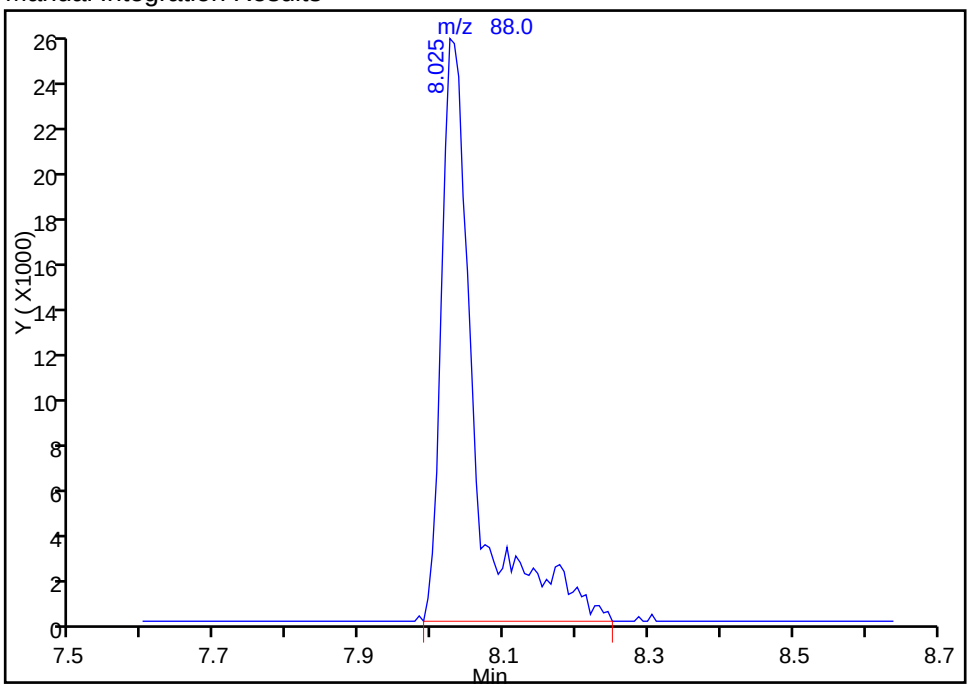
Processing Integration Results

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

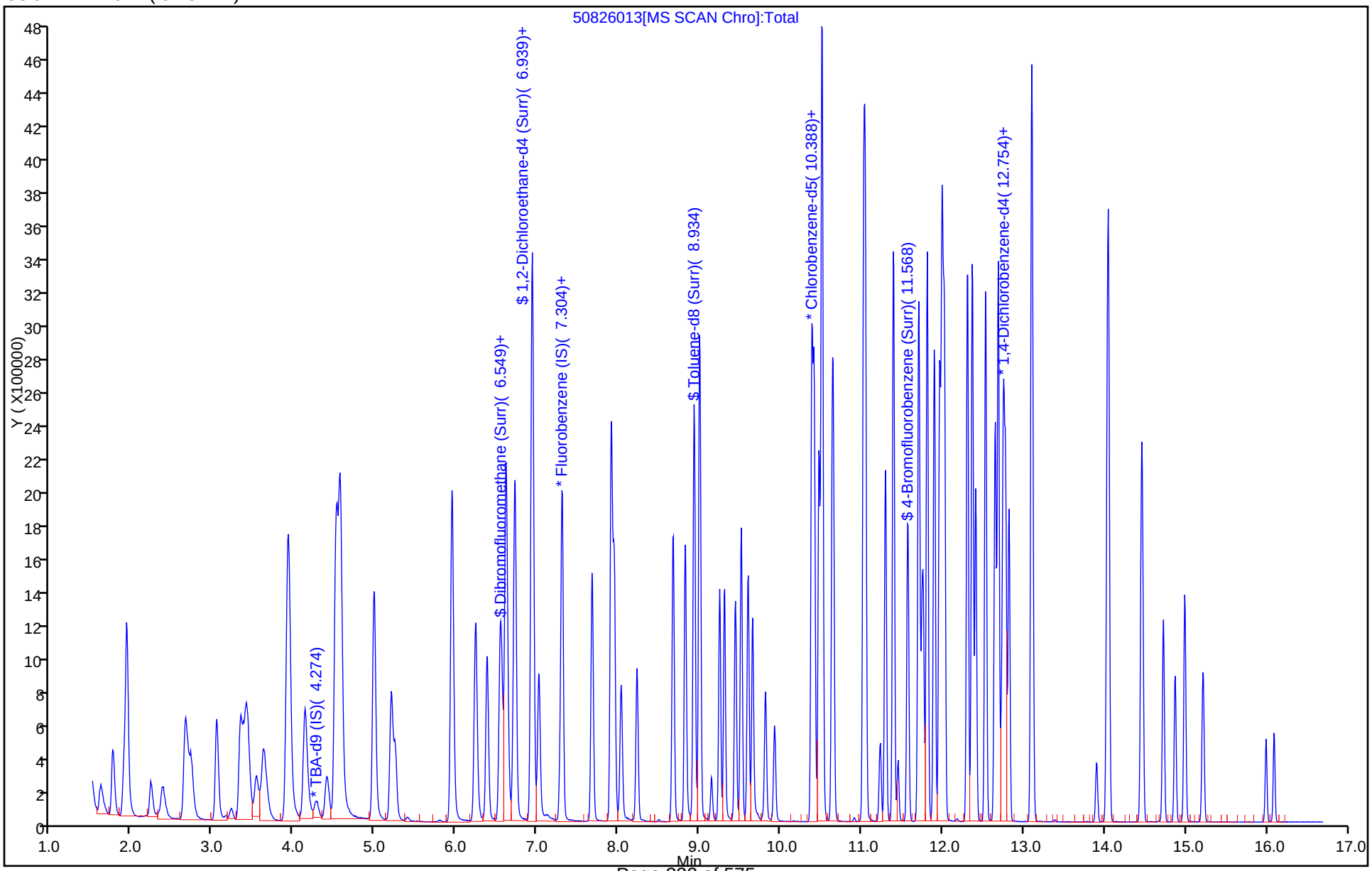
Report Date: 27-Aug-2015 11:50:25 Chrom Revision: 2.2 23-Jul-2015 08:26:08

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

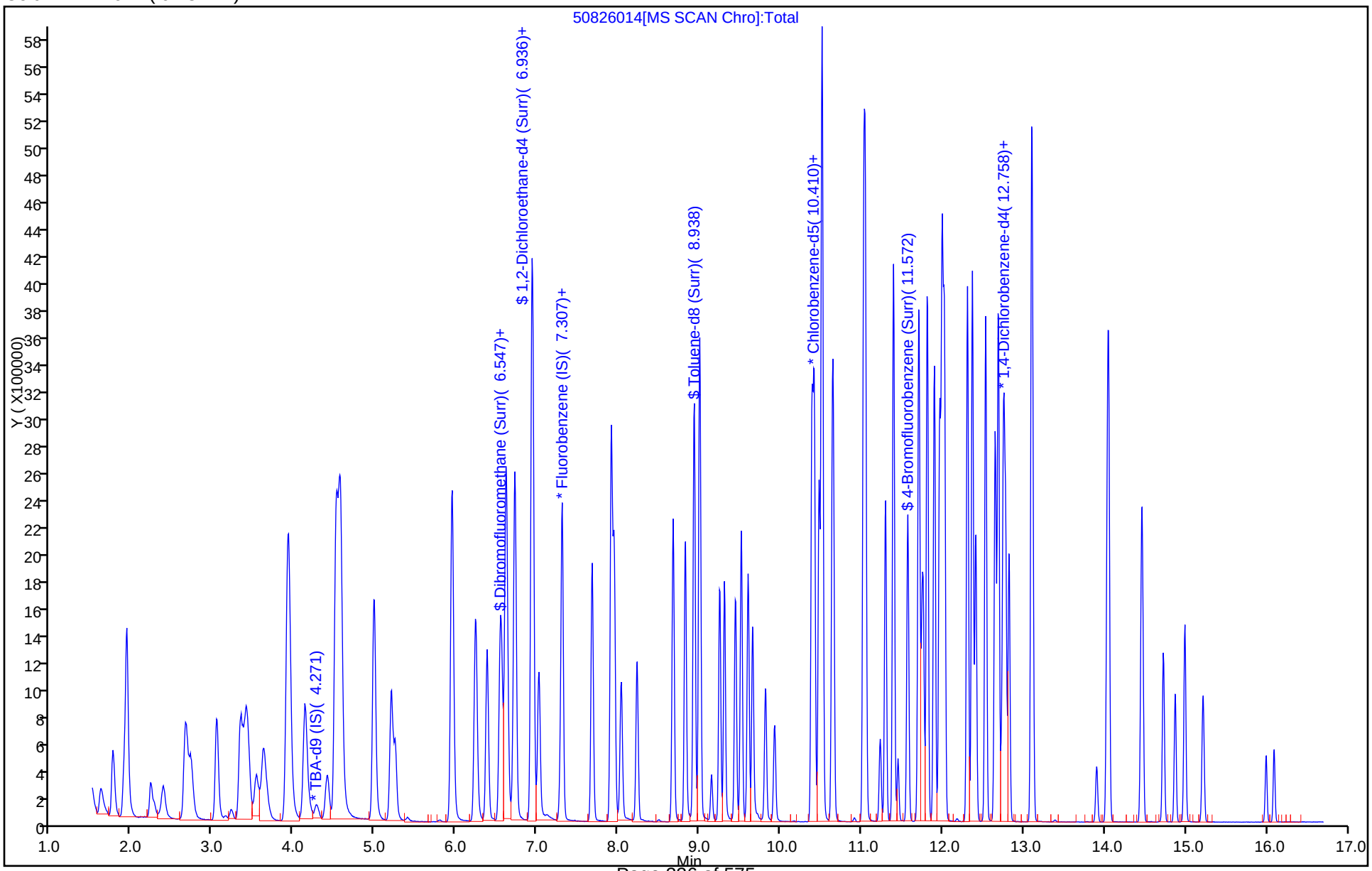
Report Date: 27-Aug-2015 11:50:46 Chrom Revision: 2.2 23-Jul-2015 08:26:08

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

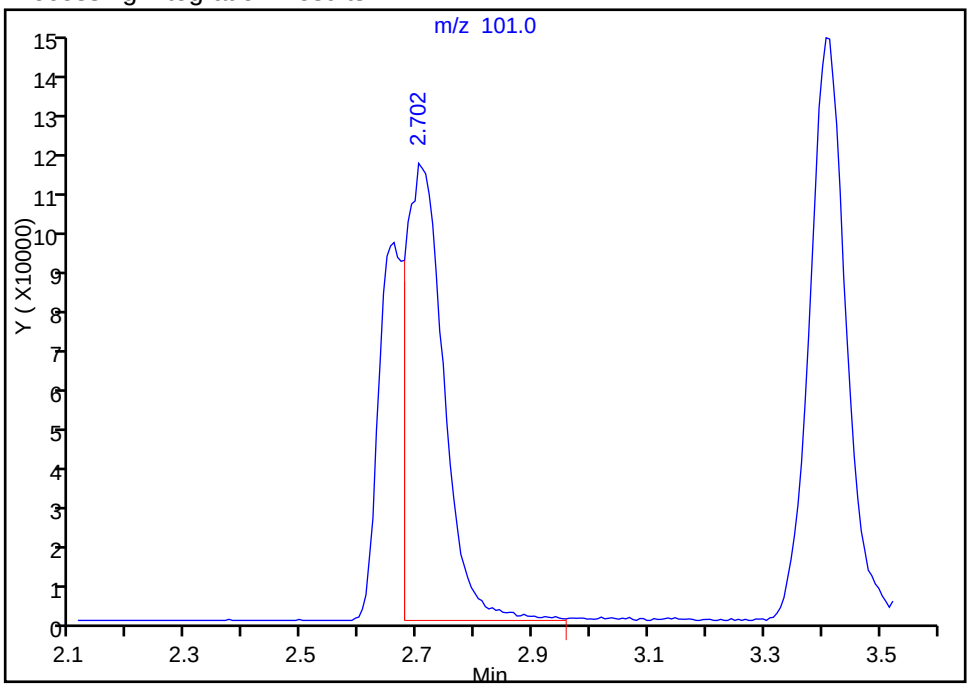
TestAmerica Pittsburgh

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

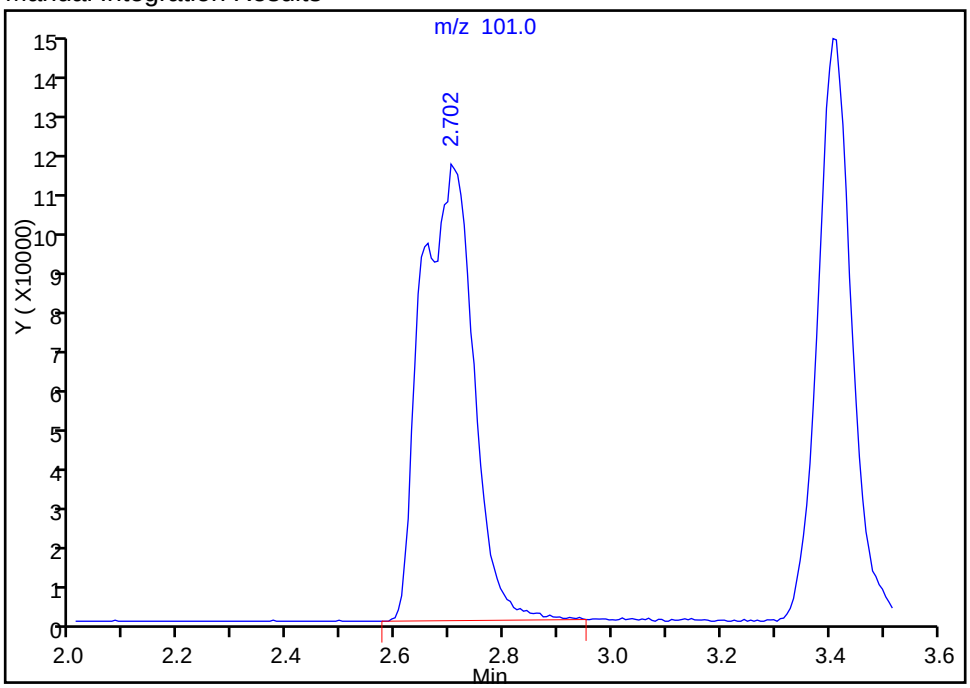
Processing Integration Results

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 VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Pittsburgh Job No.: 180-48435-1

SDG No.:

Lab Sample ID: CCVIS 180-157127/2 Calibration Date: 10/15/2015 12:56

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: 51015002.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	0.1567	0.0100	19.0	20.0	-5.1	20.0

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151015-9022.b\51015002.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 15-Oct-2015 12:56:30 ALS Bottle#: 2 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: CCVIS
Misc. Info.: 180-0009022-002
Operator ID: 001562 Instrument ID: CHHP5
Sublist: chrom-MSVOA_LL_CHHP5*sub12

Method: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151015-9022.b\MSVOA_LL_CHHP5.m
Limit Group: VOA 8260C ICAL
Last Update: 15-Oct-2015 13:56:13 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: XAWRK008

First Level Reviewer: fergusond Date: 15-Oct-2015 13:45:14

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.273	4.273	0.000	0	155406	1000.0	1000.0	
* 2 Fluorobenzene (IS)	96	7.290	7.290	0.000	98	379251	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.386	10.386	0.000	89	82633	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.735	12.735	0.000	94	127710	50.0	50.0	
$ 5 Dibromofluoromethane (Surr	113	6.554	6.554	0.000	93	81725	50.0	43.9	
$ 6 1,2-Dichloroethane-d4 (Sur	65	6.931	6.931	0.000	0	117004	50.0	45.7	
$ 7 Toluene-d8 (Surr)	98	8.939	8.939	0.000	95	355461	50.0	55.8	
$ 8 4-Bromofluorobenzene (Surr	95	11.573	11.573	0.000	84	126197	50.0	52.5	
11 Dichlorodifluoromethane	85	1.596	1.596	0.000	98	129386	50.0	60.4	
12 Chloromethane	50	1.772	1.772	0.000	99	148687	50.0	47.3	
13 Vinyl chloride	62	1.912	1.912	0.000	98	111416	50.0	39.9	
14 Butadiene	39	1.943	1.943	0.000	98	153207	50.0	46.5	
15 Bromomethane	94	2.241	2.241	0.000	92	37648	50.0	33.2	
16 Chloroethane	64	2.399	2.399	0.000	98	58341	50.0	34.7	
17 Dichlorofluoromethane	67	2.667	2.667	0.000	97	146358	50.0	41.0	
18 Trichlorofluoromethane	101	2.703	2.703	0.000	83	124282	50.0	46.5	M
20 Ethyl ether	59	3.038	3.038	0.000	98	108422	50.0	43.8	
21 Acrolein	56	3.220	3.220	0.000	98	50008	150.0	135.5	
22 1,1-Dichloroethene	96	3.330	3.330	0.000	93	99242	50.0	47.0	
23 1,1,2-Trichloro-1,2,2-trif	101	3.415	3.415	0.000	93	107768	50.0	48.2	
24 Acetone	43	3.439	3.439	0.000	99	94511	100.0	123.5	
25 Iodomethane	142	3.537	3.537	0.000	98	135354	50.0	43.0	
26 Carbon disulfide	76	3.640	3.640	0.000	100	247744	50.0	50.5	
28 3-Chloro-1-propene	76	3.914	3.914	0.000	89	58242	50.0	48.7	
30 Methyl acetate	43	3.938	3.938	0.000	100	627408	250.0	274.4	
31 Methylene Chloride	84	4.139	4.139	0.000	95	119062	50.0	47.7	
32 2-Methyl-2-propanol	59	4.394	4.394	0.000	92	100001	500.0	571.7	
33 Acrylonitrile	53	4.522	4.522	0.000	99	583774	500.0	526.2	
34 trans-1,2-Dichloroethene	96	4.559	4.559	0.000	93	105441	50.0	46.0	
35 Methyl tert-butyl ether	73	4.577	4.577	0.000	94	236391	50.0	44.5	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
36 Hexane	57	4.984	4.984	0.000	96	206806	50.0	53.7	
37 1,1-Dichloroethane	63	5.197	5.197	0.000	97	212242	50.0	47.0	
38 Vinyl acetate	43	5.246	5.246	0.000	97	173652	50.0	51.2	
44 2,2-Dichloropropane	77	5.946	5.946	0.000	54	83728	50.0	46.2	
45 cis-1,2-Dichloroethene	96	5.946	5.946	0.000	85	112217	50.0	45.8	
46 2-Butanone (MEK)	43	5.952	5.952	0.000	73	131824	100.0	114.7	
49 Chlorobromomethane	128	6.231	6.231	0.000	87	44049	50.0	40.9	
51 Tetrahydrofuran	42	6.250	6.250	0.000	94	100194	100.0	108.6	
52 Chloroform	83	6.377	6.377	0.000	95	176887	50.0	45.3	
53 1,1,1-Trichloroethane	97	6.536	6.536	0.000	94	127859	50.0	44.3	
54 Cyclohexane	56	6.609	6.609	0.000	97	248392	50.0	51.4	
56 Carbon tetrachloride	117	6.718	6.718	0.000	96	105393	50.0	42.9	
55 1,1-Dichloropropene	75	6.724	6.724	0.000	92	157946	50.0	49.5	
57 Isobutyl alcohol	41	6.925	6.925	0.000	67	112236	1250.0	1554.0	
58 Benzene	78	6.943	6.943	0.000	96	458935	50.0	49.1	
59 1,2-Dichloroethane	62	7.016	7.016	0.000	97	150757	50.0	46.6	
62 n-Heptane	43	7.302	7.302	0.000	97	200317	50.0	57.3	
64 Trichloroethene	130	7.673	7.673	0.000	97	98559	50.0	43.1	
66 Methylcyclohexane	83	7.917	7.917	0.000	98	176662	50.0	49.0	
67 1,2-Dichloropropane	63	7.947	7.947	0.000	95	114484	50.0	46.7	
70 1,4-Dioxane	88	8.026	8.026	0.000	50	22603	1000.0	1336.1	M
68 Dibromomethane	93	8.032	8.032	0.000	98	56311	50.0	45.2	
71 Dichlorobromomethane	83	8.233	8.233	0.000	96	113911	50.0	46.2	
73 2-Chloroethyl vinyl ether	63	8.531	8.531	0.000	89	118857	100.0	94.9	
74 cis-1,3-Dichloropropene	75	8.671	8.671	0.000	89	131950	50.0	45.7	
75 4-Methyl-2-pentanone (MIBK	43	8.823	8.823	0.000	99	202241	100.0	99.3	
76 Toluene	91	9.006	9.006	0.000	98	449632	50.0	55.0	
77 trans-1,3-Dichloropropene	75	9.255	9.255	0.000	98	109574	50.0	51.3	
78 Ethyl methacrylate	69	9.310	9.310	0.000	94	116569	50.0	56.5	
79 1,1,2-Trichloroethane	97	9.444	9.444	0.000	93	80200	50.0	51.5	
80 Tetrachloroethene	164	9.517	9.517	0.000	94	85746	50.0	54.0	
81 1,3-Dichloropropane	76	9.602	9.602	0.000	98	155424	50.0	53.8	
82 2-Hexanone	43	9.663	9.663	0.000	98	165460	100.0	112.6	
84 Chlorodibromomethane	129	9.815	9.815	0.000	93	62302	50.0	46.2	
85 Ethylene Dibromide	107	9.930	9.930	0.000	99	76506	50.0	51.0	
86 3-Chlorobenzotrifluoride	180	10.393	10.393	0.000	85	145014	50.0	55.2	
87 Chlorobenzene	112	10.417	10.417	0.000	91	268779	50.0	51.0	
88 4-Chlorobenzotrifluoride	180	10.478	10.478	0.000	96	132111	50.0	53.2	
89 1,1,1,2-Tetrachloroethane	131	10.514	10.514	0.000	91	78866	50.0	45.9	
90 Ethylbenzene	106	10.520	10.520	0.000	99	149399	50.0	53.5	
91 m-Xylene & p-Xylene	106	10.654	10.654	0.000	0	186929	50.0	54.6	
92 o-Xylene	106	11.031	11.031	0.000	98	175439	50.0	53.9	
93 Styrene	104	11.050	11.050	0.000	95	298841	50.0	55.4	
94 Bromoform	173	11.232	11.232	0.000	94	39720	50.0	51.7	
96 2-Chlorobenzotrifluoride	180	11.299	11.299	0.000	96	139926	50.0	54.1	
97 Isopropylbenzene	105	11.396	11.396	0.000	97	448622	50.0	56.3	
99 1,1,2,2-Tetrachloroethane	83	11.707	11.707	0.000	92	114599	50.0	54.6	
100 Bromobenzene	156	11.707	11.707	0.000	96	101975	50.0	46.5	
102 trans-1,4-Dichloro-2-buten	53	11.743	11.743	0.000	70	26010	50.0	32.8	
101 1,2,3-Trichloropropane	110	11.767	11.767	0.000	88	34781	50.0	48.1	
103 N-Propylbenzene	120	11.816	11.816	0.000	99	126127	50.0	50.3	
104 2-Chlorotoluene	126	11.901	11.901	0.000	95	103376	50.0	48.5	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
105 3-Chlorotoluene	126	11.968	11.968	0.000	96	107401	50.0	49.0	
106 1,3,5-Trimethylbenzene	105	11.999	11.999	0.000	94	381085	50.0	53.7	
107 4-Chlorotoluene	126	12.029	12.029	0.000	98	112144	50.0	47.8	
108 tert-Butylbenzene	119	12.309	12.309	0.000	95	292935	50.0	50.8	
110 1,2,4-Trimethylbenzene	105	12.370	12.370	0.000	98	374928	50.0	52.8	
111 1,2-dichloro-4-(trifluorom	214	12.412	12.412	0.000	98	106366	50.0	53.7	
112 sec-Butylbenzene	105	12.534	12.534	0.000	95	451092	50.0	55.4	
113 1,3-Dichlorobenzene	146	12.650	12.650	0.000	96	199555	50.0	51.1	
114 4-Isopropyltoluene	119	12.692	12.692	0.000	97	363709	50.0	52.8	
115 1,4-Dichlorobenzene	146	12.753	12.753	0.000	92	208531	50.0	51.4	
116 2,4-Dichloro-1-(triflourom	214	12.783	12.783	0.000	96	98210	50.0	53.5	
118 2,5-Dichlorobenzotrifluori	214	12.820	12.820	0.000	0	109394	50.0	55.2	
120 n-Butylbenzene	91	13.100	13.100	0.000	98	329345	50.0	55.9	
121 1,2-Dichlorobenzene	146	13.112	13.112	0.000	95	186793	50.0	51.2	
122 1,2-Dibromo-3-Chloropropan	75	13.903	13.903	0.000	74	15863	50.0	53.0	
123 2,4- & 2,5- & 2,6- Dichlor	125	14.043	14.043	0.000	0	358127	150.0	171.9	
125 2,3- & 3,4- Dichlorotoluen	125	14.469	14.469	0.000	0	223680	100.0	112.6	
126 1,2,4-Trichlorobenzene	180	14.724	14.724	0.000	94	83313	50.0	58.7	
127 Hexachlorobutadiene	225	14.876	14.876	0.000	95	44532	50.0	65.1	
128 Naphthalene	128	14.992	14.992	0.000	98	212098	50.0	58.1	
129 1,2,3-Trichlorobenzene	180	15.217	15.217	0.000	95	69657	50.0	60.6	
131 2,4,5-Trichlorotoluene	159	15.995	15.995	0.000	0	26435	50.0	63.8	
130 2,3,6-Trichlorotoluene	159	16.099	16.099	0.000	89	23832	50.0	62.4	
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 133 Xylenes, Total	106				0		100.0	108.5	
S 134 1,2-Dichloroethene, Total	96				0		100.0	91.8	
S 135 1,3-Dichloropropene, Total	1				0		100.0	97.0	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

voaWAcro1stRe_00001	Amount Added:	6.00	Units: uL	
voaWEEpri Res_00006	Amount Added:	2.00	Units: uL	
VOA8260VOAPRI_00148	Amount Added:	2.00	Units: uL	
voaWVA1stRest_00001	Amount Added:	2.00	Units: uL	
voaW2-Clepri_00003	Amount Added:	2.00	Units: uL	
voaWKetmix2nd_00002	Amount Added:	2.00	Units: uL	
VOA8260INT_00043	Amount Added:	2.00	Units: uL	Run Reagent
VOA8260SURR_00043	Amount Added:	2.00	Units: uL	Run Reagent

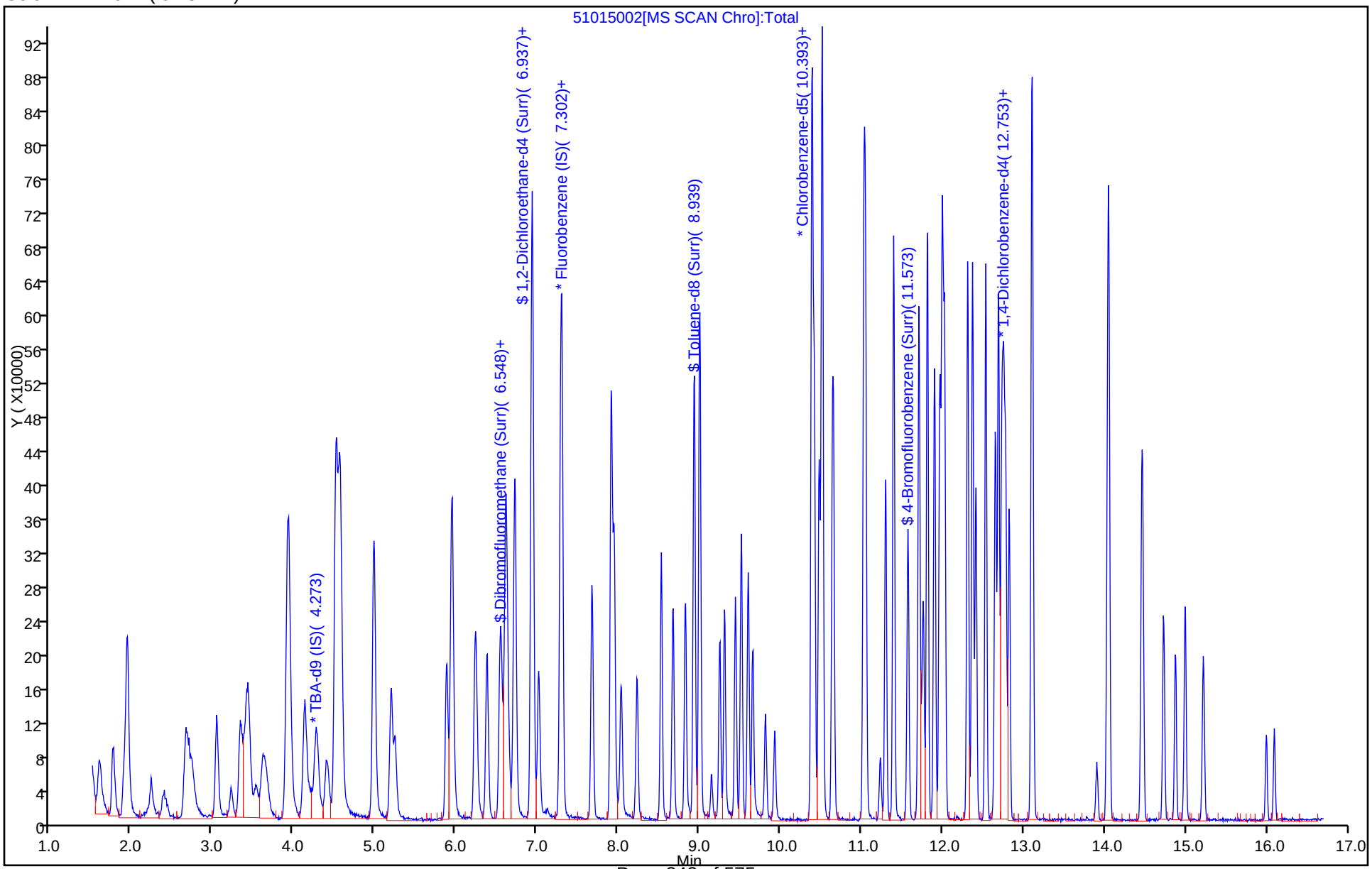
Report Date: 15-Oct-2015 13:56:14 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151015-9022.b\51015002.D

Injection Date:	15-Oct-2015 12:56:30	Instrument ID:	CHHP5	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_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.: 180-48435-1

SDG No.:

Lab Sample ID: CCVIS 180-157127/2 Calibration Date: 10/15/2015 12:56

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: 51015002.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	0.3412	0.1000	12.1	10.0	20.8*	20.0
Chloromethane	Ave	0.4148	0.3921	0.1000	9.45	10.0	-5.5	20.0
Vinyl chloride	Ave	0.3679	0.2938	0.1000	7.98	10.0	-20.2*	20.0
1,3-Butadiene	Ave	0.4345	0.4040	0.0100	9.30	10.0	-7.0	20.0
Bromomethane	Ave	0.1497	0.0993	0.0500	6.63	10.0	-33.7*	20.0
Chloroethane	Ave	0.2220	0.1538	0.0500	6.93	10.0	-30.7*	20.0
Dichlorofluoromethane	Ave	0.4709	0.3859	0.0100	8.19	10.0	-18.1	20.0
Trichlorofluoromethane	Ave	0.3523	0.3277	0.1000	9.30	10.0	-7.0	20.0
Ethyl ether	Ave	0.3265	0.2859	0.0100	8.76	10.0	-12.4	20.0
Acrolein	Ave	0.0486	0.0440	0.0100	27.1	30.0	-9.6	20.0
1,1-Dichloroethene	Ave	0.2785	0.2617	0.1000	9.40	10.0	-6.0	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.2951	0.2842	0.1000	9.63	10.0	-3.7	20.0
Acetone	Ave	0.1009	0.1246	0.0500	24.7	20.0	23.5*	20.0
Iodomethane	Ave	0.4150	0.3569	0.0100	8.60	10.0	-14.0	20.0
Carbon disulfide	Ave	0.6466	0.6533	0.1000	10.1	10.0	1.0	20.0
Allyl chloride	Ave	0.1577	0.1536	0.0100	9.74	10.0	-2.6	20.0
Methyl acetate	Ave	0.3015	0.3309	0.1000	54.9	50.0	9.8	20.0
Methylene Chloride	Lin2		0.3139	0.1000	9.55	10.0	-4.5	20.0
tert-Butyl alcohol	Ave	1.126	1.287	0.0100	114	100	14.3	20.0
Acrylonitrile	Ave	0.1463	0.1539	0.0100	105	100	5.2	20.0
trans-1,2-Dichloroethene	Ave	0.3024	0.2780	0.1000	9.20	10.0	-8.0	20.0
Methyl tert-butyl ether	Ave	0.6999	0.6233	0.1000	8.91	10.0	-10.9	20.0
Hexane	Ave	0.5076	0.5453	0.0100	10.7	10.0	7.4	20.0
1,1-Dichloroethane	Ave	0.5957	0.5596	0.2000	9.40	10.0	-6.0	20.0
Vinyl acetate	Ave	0.4469	0.4579	0.0100	10.2	10.0	2.5	20.0
2,2-Dichloropropane	Ave	0.2387	0.2208	0.0100	9.25	10.0	-7.5	20.0
cis-1,2-Dichloroethene	Ave	0.3230	0.2959	0.1000	9.16	10.0	-8.4	20.0
2-Butanone (MEK)	Ave	0.1516	0.1738	0.0500	22.9	20.0	14.7	20.0
Bromochloromethane	Ave	0.1418	0.1162	0.0100	8.19	10.0	-18.1	20.0
Tetrahydrofuran	Ave	0.1216	0.1321	0.0100	21.7	20.0	8.6	20.0
Chloroform	Ave	0.5146	0.4664	0.2000	9.06	10.0	-9.4	20.0
1,1,1-Trichloroethane	Ave	0.3805	0.3371	0.1000	8.86	10.0	-11.4	20.0
Cyclohexane	Ave	0.6367	0.6550	0.1000	10.3	10.0	2.9	20.0
Carbon tetrachloride	Ave	0.3240	0.2779	0.1000	8.58	10.0	-14.2	20.0
1,1-Dichloropropene	Ave	0.4208	0.4165	0.0100	9.90	10.0	-1.0	20.0
Isobutyl alcohol	Ave	0.0095	0.0118	0.0100	311	250	24.3*	20.0
Benzene	Ave	1.233	1.210	0.5000	9.82	10.0	-1.8	20.0
1,2-Dichloroethane	Ave	0.4264	0.3975	0.1000	9.32	10.0	-6.8	20.0
n-Heptane	Ave	0.4611	0.5282	0.0100	11.5	10.0	14.6	20.0
Trichloroethene	Ave	0.3016	0.2599	0.2000	8.62	10.0	-13.8	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Pittsburgh Job No.: 180-48435-1

SDG No.:

Lab Sample ID: CCVIS 180-157127/2 Calibration Date: 10/15/2015 12:56

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: 51015002.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	0.4658	0.1000	9.80	10.0	-2.0	20.0
1,2-Dichloropropane	Ave	0.3235	0.3019	0.1000	9.33	10.0	-6.7	20.0
1,4-Dioxane	Ave	0.0022	0.0030*	0.0100	267	200	33.6*	20.0
Dibromomethane	Ave	0.1642	0.1485	0.0100	9.04	10.0	-9.6	20.0
Bromodichloromethane	Ave	0.3249	0.3004	0.2000	9.24	10.0	-7.6	20.0
cis-1,3-Dichloropropene	Ave	0.3807	0.3479	0.2000	9.14	10.0	-8.6	20.0
4-Methyl-2-pentanone (MIBK)	Ave	1.232	1.224	0.1000	19.9	20.0	-0.7	20.0
Toluene	Ave	4.950	5.441	0.4000	11.0	10.0	9.9	20.0
trans-1,3-Dichloropropene	Ave	1.292	1.326	0.1000	10.3	10.0	2.6	20.0
Ethyl methacrylate	Ave	1.249	1.411	0.0100	11.3	10.0	12.9	20.0
1,1,2-Trichloroethane	Ave	0.9416	0.9706	0.1000	10.3	10.0	3.1	20.0
Tetrachloroethene	Ave	0.9609	1.038	0.2000	10.8	10.0	8.0	20.0
1,3-Dichloropropane	Ave	1.748	1.881	0.0100	10.8	10.0	7.6	20.0
2-Hexanone	Ave	0.8893	1.001	0.1000	22.5	20.0	12.6	20.0
Dibromochloromethane	Ave	0.8152	0.7540	0.1000	9.25	10.0	-7.5	20.0
1,2-Dibromoethane (EDB)	Ave	0.9073	0.9259	0.1000	10.2	10.0	2.0	20.0
3-Chlorobenzotrifluoride	Ave	1.591	1.755	0.0100	11.0	10.0	10.3	20.0
Chlorobenzene	Ave	3.187	3.253	0.5000	10.2	10.0	2.1	20.0
4-Chlorobenzotrifluoride	Ave	1.504	1.599	0.0100	10.6	10.0	6.3	20.0
1,1,1,2-Tetrachloroethane	Ave	1.039	0.9544	0.0100	9.19	10.0	-8.1	20.0
Ethylbenzene	Ave	1.690	1.808	0.1000	10.7	10.0	7.0	20.0
m-Xylene & p-Xylene	Ave	2.072	2.262	0.1000	10.9	10.0	9.2	20.0
o-Xylene	Ave	1.969	2.123	0.3000	10.8	10.0	7.8	20.0
Styrene	Ave	3.262	3.616	0.3000	11.1	10.0	10.9	20.0
Bromoform	Ave	0.4652	0.4807	0.1000	10.3	10.0	3.3	20.0
2-Chlorobenzotrifluoride	Ave	1.565	1.693	0.0100	10.8	10.0	8.2	20.0
Isopropylbenzene	Ave	4.822	5.429	0.1000	11.3	10.0	12.6	20.0
1,1,2,2-Tetrachloroethane	Ave	1.270	1.387	0.3000	10.9	10.0	9.2	20.0
Bromobenzene	Ave	0.8583	0.7985	0.0100	9.30	10.0	-7.0	20.0
trans-1,4-Dichloro-2-butene	Ave	0.3103	0.2037	0.0100	6.56	10.0	-34.4*	20.0
1,2,3-Trichloropropane	Ave	0.2831	0.2723	0.0100	9.62	10.0	-3.8	20.0
N-Propylbenzene	Ave	0.9825	0.9876	0.0100	10.1	10.0	0.5	20.0
2-Chlorotoluene	Ave	0.8351	0.8095	0.0100	9.69	10.0	-3.1	20.0
3-Chlorotoluene	Ave	0.8583	0.8410	0.0100	9.80	10.0	-2.0	20.0
1,3,5-Trimethylbenzene	Ave	2.776	2.984	0.0100	10.7	10.0	7.5	20.0
4-Chlorotoluene	Ave	0.9190	0.8781	0.0100	9.56	10.0	-4.4	20.0
tert-Butylbenzene	Ave	2.257	2.294	0.0100	10.2	10.0	1.6	20.0
1,2,4-Trimethylbenzene	Ave	2.781	2.936	0.0100	10.6	10.0	5.6	20.0
3,4-Dichlorobenzotrifluoride	Ave	0.7754	0.8329	0.0100	10.7	10.0	7.4	20.0
sec-Butylbenzene	Ave	3.187	3.532	0.0100	11.1	10.0	10.8	20.0
1,3-Dichlorobenzene	Ave	1.528	1.563	0.6000	10.2	10.0	2.2	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Pittsburgh Job No.: 180-48435-1

SDG No.:

Lab Sample ID: CCVIS 180-157127/2 Calibration Date: 10/15/2015 12:56

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: 51015002.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	2.848	0.0100	10.6	10.0	5.6	20.0
1,4-Dichlorobenzene	Ave	1.590	1.633	0.5000	10.3	10.0	2.7	20.0
2,4-Dichlorobenzotrifluoride	Ave	0.7185	0.7690	0.0100	10.7	10.0	7.0	20.0
2,5-Dichlorobenzotrifluoride	Ave	0.7765	0.8566	0.0100	11.0	10.0	10.3	20.0
n-Butylbenzene	Ave	2.307	2.579	0.0100	11.2	10.0	11.8	20.0
1,2-Dichlorobenzene	Ave	1.428	1.463	0.4000	10.2	10.0	2.4	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.1173	0.1242	0.0500	10.6	10.0	5.9	20.0
2,4- & 2,5- & 2,6-Dichlorotoluene	Ave	0.8157	0.9347	0.0100	34.4	30.0	14.6	20.0
2,3- & 3,4- Dichlorotoluene	Ave	0.7778	0.8757	0.0100	22.5	20.0	12.6	20.0
1,2,4-Trichlorobenzene	Ave	0.5557	0.6524	0.2000	11.7	10.0	17.4	20.0
Hexachlorobutadiene	Ave	0.2677	0.3487	0.0100	13.0	10.0	30.3*	20.0
Naphthalene	Ave	1.428	1.661	0.0100	11.6	10.0	16.3	20.0
1,2,3-Trichlorobenzene	Ave	0.4498	0.5454	0.0100	12.1	10.0	21.2*	20.0
2,4,5-Trichlorotoluene	Ave	0.1623	0.2070	0.0100	12.8	10.0	27.5*	20.0
2,3,6-Trichlorotoluene	Ave	0.1496	0.1866	0.0100	12.5	10.0	24.7*	20.0
Dibromofluoromethane (Surr)	Ave	0.2455	0.2155		8.78	10.0	-12.2	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3373	0.3085		9.15	10.0	-8.5	20.0
Toluene-d8 (Surr)	Ave	3.857	4.302		11.2	10.0	11.5	20.0
4-Bromofluorobenzene (Surr)	Ave	1.455	1.527		10.5	10.0	5.0	20.0

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151015-9022.b\51015002.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 15-Oct-2015 12:56:30 ALS Bottle#: 2 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: CCVIS
Misc. Info.: 180-0009022-002
Operator ID: 001562 Instrument ID: CHHP5
Sublist: chrom-MSVOA_LL_CHHP5*sub12

Method: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151015-9022.b\MSVOA_LL_CHHP5.m
Limit Group: VOA 8260C ICAL
Last Update: 15-Oct-2015 13:56:13 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: XAWRK008

First Level Reviewer: fergusond Date: 15-Oct-2015 13:45:14

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.273	4.273	0.000	0	155406	1000.0	1000.0	
* 2 Fluorobenzene (IS)	96	7.290	7.290	0.000	98	379251	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.386	10.386	0.000	89	82633	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.735	12.735	0.000	94	127710	50.0	50.0	
$ 5 Dibromofluoromethane (Surr	113	6.554	6.554	0.000	93	81725	50.0	43.9	
$ 6 1,2-Dichloroethane-d4 (Sur	65	6.931	6.931	0.000	0	117004	50.0	45.7	
$ 7 Toluene-d8 (Surr)	98	8.939	8.939	0.000	95	355461	50.0	55.8	
$ 8 4-Bromofluorobenzene (Surr	95	11.573	11.573	0.000	84	126197	50.0	52.5	
11 Dichlorodifluoromethane	85	1.596	1.596	0.000	98	129386	50.0	60.4	
12 Chloromethane	50	1.772	1.772	0.000	99	148687	50.0	47.3	
13 Vinyl chloride	62	1.912	1.912	0.000	98	111416	50.0	39.9	
14 Butadiene	39	1.943	1.943	0.000	98	153207	50.0	46.5	
15 Bromomethane	94	2.241	2.241	0.000	92	37648	50.0	33.2	
16 Chloroethane	64	2.399	2.399	0.000	98	58341	50.0	34.7	
17 Dichlorofluoromethane	67	2.667	2.667	0.000	97	146358	50.0	41.0	
18 Trichlorofluoromethane	101	2.703	2.703	0.000	83	124282	50.0	46.5	M
20 Ethyl ether	59	3.038	3.038	0.000	98	108422	50.0	43.8	
21 Acrolein	56	3.220	3.220	0.000	98	50008	150.0	135.5	
22 1,1-Dichloroethene	96	3.330	3.330	0.000	93	99242	50.0	47.0	
23 1,1,2-Trichloro-1,2,2-trif	101	3.415	3.415	0.000	93	107768	50.0	48.2	
24 Acetone	43	3.439	3.439	0.000	99	94511	100.0	123.5	
25 Iodomethane	142	3.537	3.537	0.000	98	135354	50.0	43.0	
26 Carbon disulfide	76	3.640	3.640	0.000	100	247744	50.0	50.5	
28 3-Chloro-1-propene	76	3.914	3.914	0.000	89	58242	50.0	48.7	
30 Methyl acetate	43	3.938	3.938	0.000	100	627408	250.0	274.4	
31 Methylene Chloride	84	4.139	4.139	0.000	95	119062	50.0	47.7	
32 2-Methyl-2-propanol	59	4.394	4.394	0.000	92	100001	500.0	571.7	
33 Acrylonitrile	53	4.522	4.522	0.000	99	583774	500.0	526.2	
34 trans-1,2-Dichloroethene	96	4.559	4.559	0.000	93	105441	50.0	46.0	
35 Methyl tert-butyl ether	73	4.577	4.577	0.000	94	236391	50.0	44.5	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
36 Hexane	57	4.984	4.984	0.000	96	206806	50.0	53.7	
37 1,1-Dichloroethane	63	5.197	5.197	0.000	97	212242	50.0	47.0	
38 Vinyl acetate	43	5.246	5.246	0.000	97	173652	50.0	51.2	
44 2,2-Dichloropropane	77	5.946	5.946	0.000	54	83728	50.0	46.2	
45 cis-1,2-Dichloroethene	96	5.946	5.946	0.000	85	112217	50.0	45.8	
46 2-Butanone (MEK)	43	5.952	5.952	0.000	73	131824	100.0	114.7	
49 Chlorobromomethane	128	6.231	6.231	0.000	87	44049	50.0	40.9	
51 Tetrahydrofuran	42	6.250	6.250	0.000	94	100194	100.0	108.6	
52 Chloroform	83	6.377	6.377	0.000	95	176887	50.0	45.3	
53 1,1,1-Trichloroethane	97	6.536	6.536	0.000	94	127859	50.0	44.3	
54 Cyclohexane	56	6.609	6.609	0.000	97	248392	50.0	51.4	
56 Carbon tetrachloride	117	6.718	6.718	0.000	96	105393	50.0	42.9	
55 1,1-Dichloropropene	75	6.724	6.724	0.000	92	157946	50.0	49.5	
57 Isobutyl alcohol	41	6.925	6.925	0.000	67	112236	1250.0	1554.0	
58 Benzene	78	6.943	6.943	0.000	96	458935	50.0	49.1	
59 1,2-Dichloroethane	62	7.016	7.016	0.000	97	150757	50.0	46.6	
62 n-Heptane	43	7.302	7.302	0.000	97	200317	50.0	57.3	
64 Trichloroethene	130	7.673	7.673	0.000	97	98559	50.0	43.1	
66 Methylcyclohexane	83	7.917	7.917	0.000	98	176662	50.0	49.0	
67 1,2-Dichloropropane	63	7.947	7.947	0.000	95	114484	50.0	46.7	
70 1,4-Dioxane	88	8.026	8.026	0.000	50	22603	1000.0	1336.1	M
68 Dibromomethane	93	8.032	8.032	0.000	98	56311	50.0	45.2	
71 Dichlorobromomethane	83	8.233	8.233	0.000	96	113911	50.0	46.2	
73 2-Chloroethyl vinyl ether	63	8.531	8.531	0.000	89	118857	100.0	94.9	
74 cis-1,3-Dichloropropene	75	8.671	8.671	0.000	89	131950	50.0	45.7	
75 4-Methyl-2-pentanone (MIBK	43	8.823	8.823	0.000	99	202241	100.0	99.3	
76 Toluene	91	9.006	9.006	0.000	98	449632	50.0	55.0	
77 trans-1,3-Dichloropropene	75	9.255	9.255	0.000	98	109574	50.0	51.3	
78 Ethyl methacrylate	69	9.310	9.310	0.000	94	116569	50.0	56.5	
79 1,1,2-Trichloroethane	97	9.444	9.444	0.000	93	80200	50.0	51.5	
80 Tetrachloroethene	164	9.517	9.517	0.000	94	85746	50.0	54.0	
81 1,3-Dichloropropane	76	9.602	9.602	0.000	98	155424	50.0	53.8	
82 2-Hexanone	43	9.663	9.663	0.000	98	165460	100.0	112.6	
84 Chlorodibromomethane	129	9.815	9.815	0.000	93	62302	50.0	46.2	
85 Ethylene Dibromide	107	9.930	9.930	0.000	99	76506	50.0	51.0	
86 3-Chlorobenzotrifluoride	180	10.393	10.393	0.000	85	145014	50.0	55.2	
87 Chlorobenzene	112	10.417	10.417	0.000	91	268779	50.0	51.0	
88 4-Chlorobenzotrifluoride	180	10.478	10.478	0.000	96	132111	50.0	53.2	
89 1,1,1,2-Tetrachloroethane	131	10.514	10.514	0.000	91	78866	50.0	45.9	
90 Ethylbenzene	106	10.520	10.520	0.000	99	149399	50.0	53.5	
91 m-Xylene & p-Xylene	106	10.654	10.654	0.000	0	186929	50.0	54.6	
92 o-Xylene	106	11.031	11.031	0.000	98	175439	50.0	53.9	
93 Styrene	104	11.050	11.050	0.000	95	298841	50.0	55.4	
94 Bromoform	173	11.232	11.232	0.000	94	39720	50.0	51.7	
96 2-Chlorobenzotrifluoride	180	11.299	11.299	0.000	96	139926	50.0	54.1	
97 Isopropylbenzene	105	11.396	11.396	0.000	97	448622	50.0	56.3	
99 1,1,2,2-Tetrachloroethane	83	11.707	11.707	0.000	92	114599	50.0	54.6	
100 Bromobenzene	156	11.707	11.707	0.000	96	101975	50.0	46.5	
102 trans-1,4-Dichloro-2-buten	53	11.743	11.743	0.000	70	26010	50.0	32.8	
101 1,2,3-Trichloropropane	110	11.767	11.767	0.000	88	34781	50.0	48.1	
103 N-Propylbenzene	120	11.816	11.816	0.000	99	126127	50.0	50.3	
104 2-Chlorotoluene	126	11.901	11.901	0.000	95	103376	50.0	48.5	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
105 3-Chlorotoluene	126	11.968	11.968	0.000	96	107401	50.0	49.0	
106 1,3,5-Trimethylbenzene	105	11.999	11.999	0.000	94	381085	50.0	53.7	
107 4-Chlorotoluene	126	12.029	12.029	0.000	98	112144	50.0	47.8	
108 tert-Butylbenzene	119	12.309	12.309	0.000	95	292935	50.0	50.8	
110 1,2,4-Trimethylbenzene	105	12.370	12.370	0.000	98	374928	50.0	52.8	
111 1,2-dichloro-4-(trifluorom	214	12.412	12.412	0.000	98	106366	50.0	53.7	
112 sec-Butylbenzene	105	12.534	12.534	0.000	95	451092	50.0	55.4	
113 1,3-Dichlorobenzene	146	12.650	12.650	0.000	96	199555	50.0	51.1	
114 4-Isopropyltoluene	119	12.692	12.692	0.000	97	363709	50.0	52.8	
115 1,4-Dichlorobenzene	146	12.753	12.753	0.000	92	208531	50.0	51.4	
116 2,4-Dichloro-1-(triflourom	214	12.783	12.783	0.000	96	98210	50.0	53.5	
118 2,5-Dichlorobenzotrifluori	214	12.820	12.820	0.000	0	109394	50.0	55.2	
120 n-Butylbenzene	91	13.100	13.100	0.000	98	329345	50.0	55.9	
121 1,2-Dichlorobenzene	146	13.112	13.112	0.000	95	186793	50.0	51.2	
122 1,2-Dibromo-3-Chloropropan	75	13.903	13.903	0.000	74	15863	50.0	53.0	
123 2,4- & 2,5- & 2,6- Dichlor	125	14.043	14.043	0.000	0	358127	150.0	171.9	
125 2,3- & 3,4- Dichlorotoluen	125	14.469	14.469	0.000	0	223680	100.0	112.6	
126 1,2,4-Trichlorobenzene	180	14.724	14.724	0.000	94	83313	50.0	58.7	
127 Hexachlorobutadiene	225	14.876	14.876	0.000	95	44532	50.0	65.1	
128 Naphthalene	128	14.992	14.992	0.000	98	212098	50.0	58.1	
129 1,2,3-Trichlorobenzene	180	15.217	15.217	0.000	95	69657	50.0	60.6	
131 2,4,5-Trichlorotoluene	159	15.995	15.995	0.000	0	26435	50.0	63.8	
130 2,3,6-Trichlorotoluene	159	16.099	16.099	0.000	89	23832	50.0	62.4	
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 133 Xylenes, Total	106				0		100.0	108.5	
S 134 1,2-Dichloroethene, Total	96				0		100.0	91.8	
S 135 1,3-Dichloropropene, Total	1				0		100.0	97.0	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

voaWAcro1stRe_00001	Amount Added:	6.00	Units: uL	
voaWEEpri Res_00006	Amount Added:	2.00	Units: uL	
VOA8260VOAPRI_00148	Amount Added:	2.00	Units: uL	
voaWVA1stRest_00001	Amount Added:	2.00	Units: uL	
voaW2-Clepri_00003	Amount Added:	2.00	Units: uL	
voaWKetmix2nd_00002	Amount Added:	2.00	Units: uL	
VOA8260INT_00043	Amount Added:	2.00	Units: uL	Run Reagent
VOA8260SURR_00043	Amount Added:	2.00	Units: uL	Run Reagent

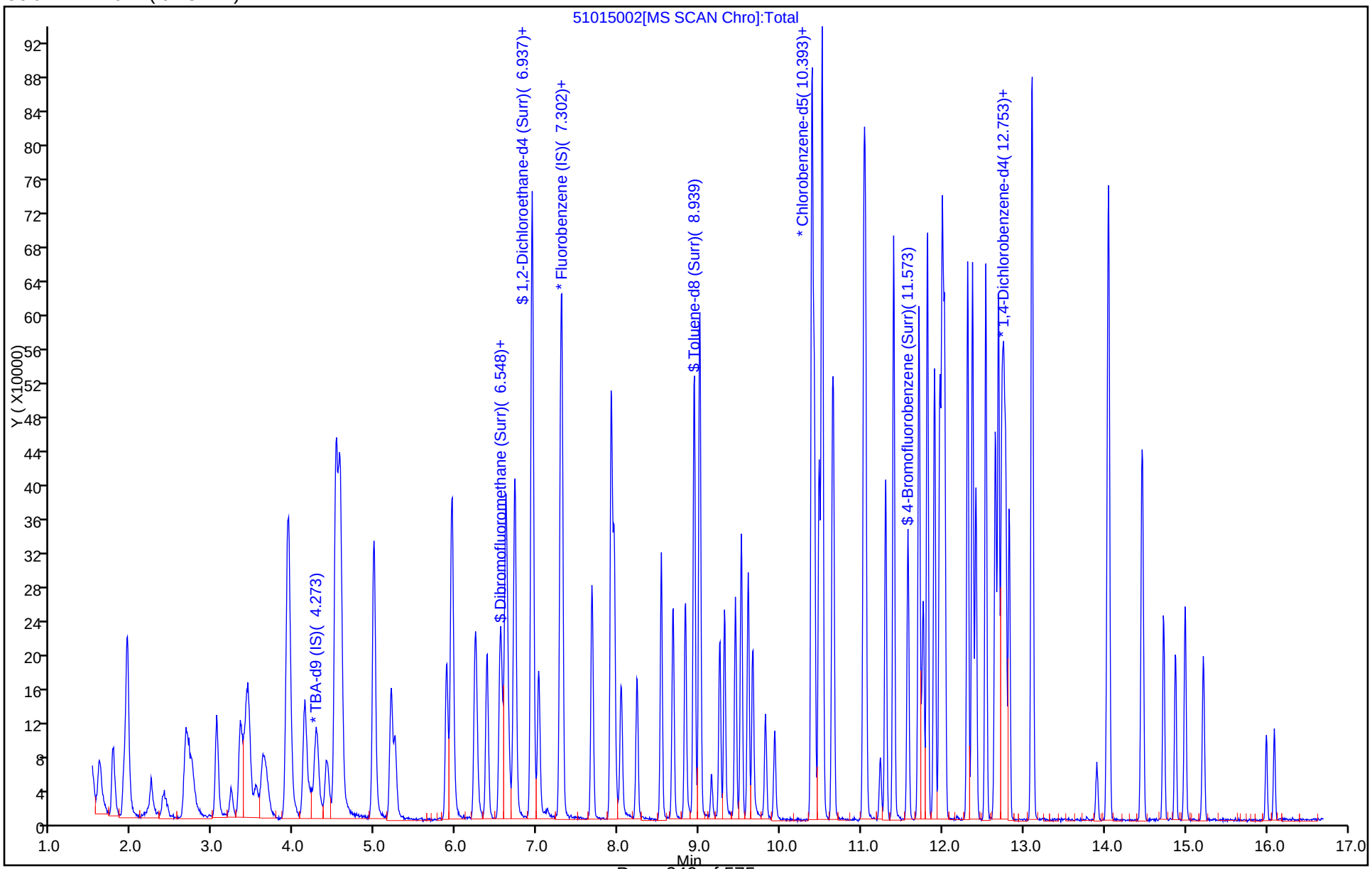
Report Date: 15-Oct-2015 13:56:14 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151015-9022.b\51015002.D

Injection Date:	15-Oct-2015 12:56:30	Instrument ID:	CHHP5	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_CHHP5	Limit Group:	VOA 8260C ICAL		

Column: DB-624 (0.18 mm)



Manual Integration/User Assign Peak Report

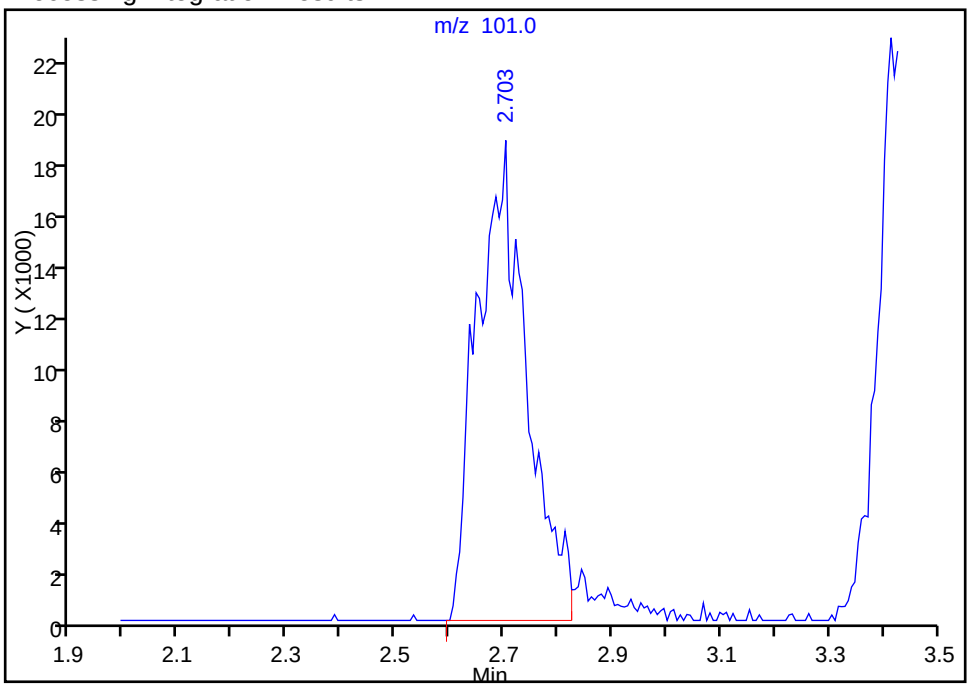
TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151015-9022.b\51015002.D
Injection Date: 15-Oct-2015 12:56:30 Instrument ID: CHHP5
Lims ID: CCVIS
Client ID:
Operator ID: 001562 ALS Bottle#: 2 Worklist Smp#: 2
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

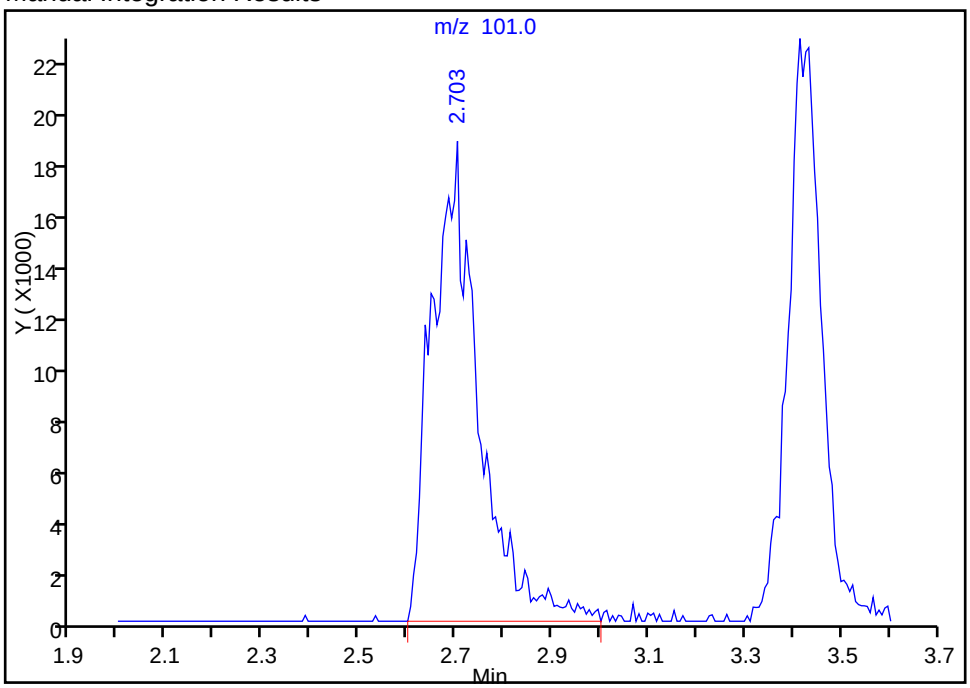
Processing Integration Results

RT: 2.70
Area: 116453
Amount: 43.581645
Amount Units: ng



Manual Integration Results

RT: 2.70
Area: 124282
Amount: 46.511588
Amount Units: ng



Reviewer: fergusond, 15-Oct-2015 13:45:14
Audit Action: Manually Integrated
Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

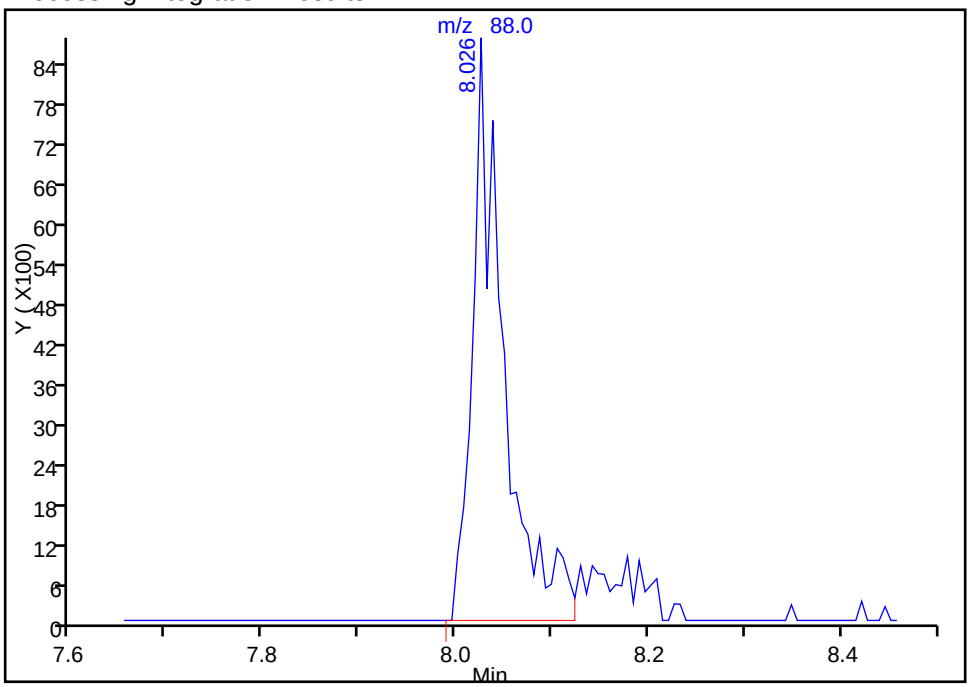
TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151015-9022.b\51015002.D
Injection Date: 15-Oct-2015 12:56:30 Instrument ID: CHHP5
Lims ID: CCVIS
Client ID:
Operator ID: 001562 ALS Bottle#: 2 Worklist Smp#: 2
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

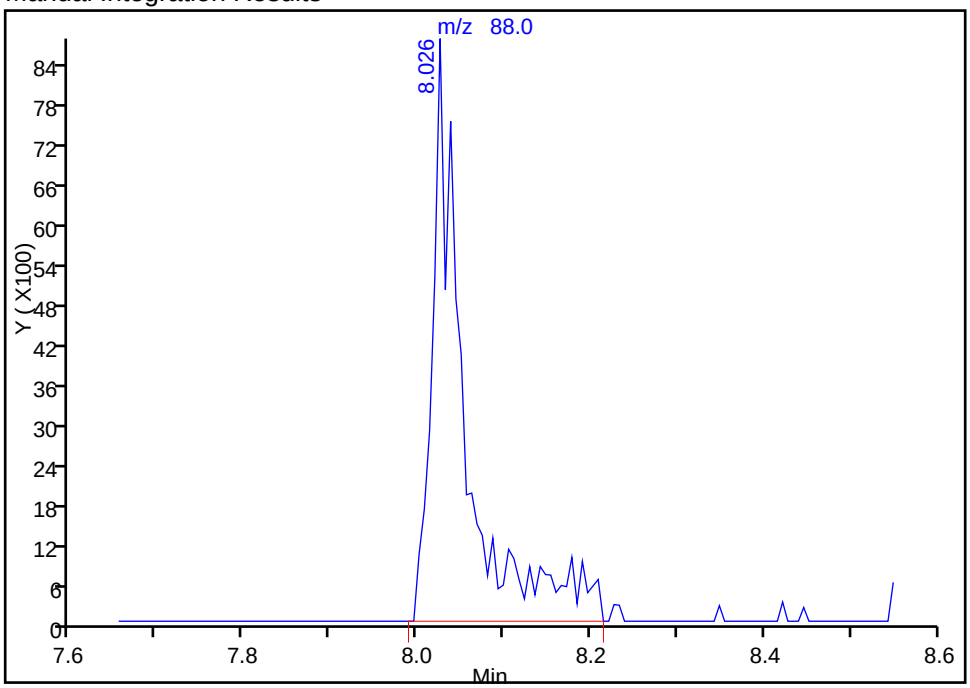
Processing Integration Results

RT: 8.03
Area: 19457
Amount: 1150.1407
Amount Units: ng



Manual Integration Results

RT: 8.03
Area: 22603
Amount: 1336.1068
Amount Units: ng



Reviewer: fergusond, 15-Oct-2015 13:45:14
Audit Action: Manually Integrated
Audit Reason: Incomplete Integration

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Pittsburgh Job No.: 180-48435-1

SDG No.:

Lab Sample ID: CCVIS 180-157249/4 Calibration Date: 10/16/2015 15:06

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: 51016004.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	0.2940	0.1000	10.4	10.0	4.1	20.0
Chloromethane	Ave	0.4148	0.3480	0.1000	8.39	10.0	-16.1	20.0
Vinyl chloride	Ave	0.3679	0.2838	0.1000	7.71	10.0	-22.9*	20.0
1,3-Butadiene	Ave	0.4345	0.3553	0.0100	8.18	10.0	-18.2	20.0
Bromomethane	Ave	0.1497	0.1031	0.0500	6.88	10.0	-31.2*	20.0
Chloroethane	Ave	0.2220	0.1460	0.0500	6.58	10.0	-34.2*	20.0
Dichlorofluoromethane	Ave	0.4709	0.3642	0.0100	7.73	10.0	-22.7*	20.0
Trichlorofluoromethane	Ave	0.3523	0.2713	0.1000	7.70	10.0	-23.0*	20.0
Ethyl ether	Ave	0.3265	0.2739	0.0100	8.39	10.0	-16.1	20.0
Acrolein	Ave	0.0486	0.0330	0.0100	20.4	30.0	-32.1*	20.0
1,1-Dichloroethene	Ave	0.2785	0.2597	0.1000	9.33	10.0	-6.7	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.2951	0.2655	0.1000	9.00	10.0	-10.0	20.0
Acetone	Ave	0.1009	0.0906	0.0500	18.0	20.0	-10.2	20.0
Iodomethane	Ave	0.4150	0.3315	0.0100	7.99	10.0	-20.1*	20.0
Carbon disulfide	Ave	0.6466	0.5768	0.1000	8.92	10.0	-10.8	20.0
Allyl chloride	Ave	0.1577	0.1367	0.0100	8.66	10.0	-13.4	20.0
Methyl acetate	Ave	0.3015	0.2837	0.1000	47.1	50.0	-5.9	20.0
Methylene Chloride	Lin2		0.3116	0.1000	9.46	10.0	-5.4	20.0
tert-Butyl alcohol	Ave	1.126	1.164	0.0100	103	100	3.4	20.0
Acrylonitrile	Ave	0.1463	0.1358	0.0100	92.9	100	-7.1	20.0
trans-1,2-Dichloroethene	Ave	0.3024	0.2734	0.1000	9.04	10.0	-9.6	20.0
Methyl tert-butyl ether	Ave	0.6999	0.5818	0.1000	8.31	10.0	-16.9	20.0
Hexane	Ave	0.5076	0.5330	0.0100	10.5	10.0	5.0	20.0
1,1-Dichloroethane	Ave	0.5957	0.5455	0.2000	9.16	10.0	-8.4	20.0
Vinyl acetate	Ave	0.4469	0.4302	0.0100	9.63	10.0	-3.7	20.0
2,2-Dichloropropane	Ave	0.2387	0.2182	0.0100	9.14	10.0	-8.6	20.0
cis-1,2-Dichloroethene	Ave	0.3230	0.2826	0.1000	8.75	10.0	-12.5	20.0
2-Butanone (MEK)	Ave	0.1516	0.1417	0.0500	18.7	20.0	-6.5	20.0
Bromochloromethane	Ave	0.1418	0.1121	0.0100	7.90	10.0	-21.0*	20.0
Tetrahydrofuran	Ave	0.1216	0.1101	0.0100	18.1	20.0	-9.5	20.0
Chloroform	Ave	0.5146	0.4538	0.2000	8.82	10.0	-11.8	20.0
1,1,1-Trichloroethane	Ave	0.3805	0.3187	0.1000	8.37	10.0	-16.3	20.0
Cyclohexane	Ave	0.6367	0.6309	0.1000	9.91	10.0	-0.9	20.0
Carbon tetrachloride	Ave	0.3240	0.2647	0.1000	8.17	10.0	-18.3	20.0
1,1-Dichloropropene	Ave	0.4208	0.3879	0.0100	9.22	10.0	-7.8	20.0
Isobutyl alcohol	Ave	0.0095	0.0087*	0.0100	229	250	-8.5	20.0
Benzene	Ave	1.233	1.156	0.5000	9.37	10.0	-6.3	20.0
1,2-Dichloroethane	Ave	0.4264	0.3843	0.1000	9.01	10.0	-9.9	20.0
n-Heptane	Ave	0.4611	0.5018	0.0100	10.9	10.0	8.8	20.0
Trichloroethene	Ave	0.3016	0.2572	0.2000	8.53	10.0	-14.7	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Pittsburgh Job No.: 180-48435-1

SDG No.:

Lab Sample ID: CCVIS 180-157249/4 Calibration Date: 10/16/2015 15:06

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: 51016004.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	0.4534	0.1000	9.54	10.0	-4.6	20.0
1,2-Dichloropropane	Ave	0.3235	0.2930	0.1000	9.06	10.0	-9.4	20.0
1,4-Dioxane	Ave	0.0022	0.0018*	0.0100	161	200	-19.4	20.0
Dibromomethane	Ave	0.1642	0.1332	0.0100	8.11	10.0	-18.9	20.0
Bromodichloromethane	Ave	0.3249	0.2821	0.2000	8.68	10.0	-13.2	20.0
cis-1,3-Dichloropropene	Ave	0.3807	0.3173	0.2000	8.34	10.0	-16.6	20.0
4-Methyl-2-pentanone (MIBK)	Ave	1.232	1.092	0.1000	17.7	20.0	-11.4	20.0
Toluene	Ave	4.950	5.204	0.4000	10.5	10.0	5.1	20.0
trans-1,3-Dichloropropene	Ave	1.292	1.199	0.1000	9.28	10.0	-7.2	20.0
Ethyl methacrylate	Ave	1.249	1.212	0.0100	9.70	10.0	-3.0	20.0
1,1,2-Trichloroethane	Ave	0.9416	0.9652	0.1000	10.3	10.0	2.5	20.0
Tetrachloroethene	Ave	0.9609	1.054	0.2000	11.0	10.0	9.7	20.0
1,3-Dichloropropane	Ave	1.748	1.733	0.0100	9.91	10.0	-0.9	20.0
2-Hexanone	Ave	0.8893	0.7998	0.1000	18.0	20.0	-10.1	20.0
Dibromochloromethane	Ave	0.8152	0.7240	0.1000	8.88	10.0	-11.2	20.0
1,2-Dibromoethane (EDB)	Ave	0.9073	0.9024	0.1000	9.95	10.0	-0.5	20.0
3-Chlorobenzotrifluoride	Ave	1.591	1.753	0.0100	11.0	10.0	10.2	20.0
Chlorobenzene	Ave	3.187	3.052	0.5000	9.57	10.0	-4.3	20.0
4-Chlorobenzotrifluoride	Ave	1.504	1.691	0.0100	11.2	10.0	12.5	20.0
1,1,1,2-Tetrachloroethane	Ave	1.039	0.9427	0.0100	9.07	10.0	-9.3	20.0
Ethylbenzene	Ave	1.690	1.716	0.1000	10.2	10.0	1.6	20.0
m-Xylene & p-Xylene	Ave	2.072	2.158	0.1000	10.4	10.0	4.2	20.0
o-Xylene	Ave	1.969	2.008	0.3000	10.2	10.0	2.0	20.0
Styrene	Ave	3.262	3.357	0.3000	10.3	10.0	2.9	20.0
Bromoform	Ave	0.4652	0.4053	0.1000	8.71	10.0	-12.9	20.0
2-Chlorobenzotrifluoride	Ave	1.565	1.687	0.0100	10.8	10.0	7.8	20.0
Isopropylbenzene	Ave	4.822	5.123	0.1000	10.6	10.0	6.2	20.0
1,1,2,2-Tetrachloroethane	Ave	1.270	1.213	0.3000	9.55	10.0	-4.5	20.0
Bromobenzene	Ave	0.8583	0.8381	0.0100	9.76	10.0	-2.4	20.0
trans-1,4-Dichloro-2-butene	Ave	0.3103	0.3093	0.0100	9.97	10.0	-0.3	20.0
1,2,3-Trichloropropane	Ave	0.2831	0.2750	0.0100	9.72	10.0	-2.8	20.0
N-Propylbenzene	Ave	0.9825	1.008	0.0100	10.3	10.0	2.6	20.0
2-Chlorotoluene	Ave	0.8351	0.8414	0.0100	10.1	10.0	0.8	20.0
3-Chlorotoluene	Ave	0.8583	0.8875	0.0100	10.3	10.0	3.4	20.0
1,3,5-Trimethylbenzene	Ave	2.776	2.995	0.0100	10.8	10.0	7.9	20.0
4-Chlorotoluene	Ave	0.9190	0.8691	0.0100	9.46	10.0	-5.4	20.0
tert-Butylbenzene	Ave	2.257	2.310	0.0100	10.2	10.0	2.4	20.0
1,2,4-Trimethylbenzene	Ave	2.781	2.953	0.0100	10.6	10.0	6.2	20.0
3,4-Dichlorobenzotrifluoride	Ave	0.7754	0.8941	0.0100	11.5	10.0	15.3	20.0
sec-Butylbenzene	Ave	3.187	3.521	0.0100	11.0	10.0	10.5	20.0
1,3-Dichlorobenzene	Ave	1.528	1.567	0.6000	10.3	10.0	2.5	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Pittsburgh Job No.: 180-48435-1

SDG No.:

Lab Sample ID: CCVIS 180-157249/4 Calibration Date: 10/16/2015 15:06

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: 51016004.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	2.805	0.0100	10.4	10.0	4.0	20.0
1,4-Dichlorobenzene	Ave	1.590	1.576	0.5000	9.91	10.0	-0.9	20.0
2,4-Dichlorobenzotrifluoride	Ave	0.7185	0.8159	0.0100	11.4	10.0	13.6	20.0
2,5-Dichlorobenzotrifluoride	Ave	0.7765	0.9068	0.0100	11.7	10.0	16.8	20.0
n-Butylbenzene	Ave	2.307	2.454	0.0100	10.6	10.0	6.4	20.0
1,2-Dichlorobenzene	Ave	1.428	1.410	0.4000	9.87	10.0	-1.3	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.1173	0.0991	0.0500	8.45	10.0	-15.5	20.0
2,4- & 2,5- & 2,6-Dichlorotoluene	Ave	0.8157	0.8499	0.0100	31.3	30.0	4.2	20.0
2,3- & 3,4- Dichlorotoluene	Ave	0.7778	0.7567	0.0100	19.5	20.0	-2.7	20.0
1,2,4-Trichlorobenzene	Ave	0.5557	0.5367	0.2000	9.66	10.0	-3.4	20.0
Hexachlorobutadiene	Ave	0.2677	0.3165	0.0100	11.8	10.0	18.3	20.0
Naphthalene	Ave	1.428	1.263	0.0100	8.84	10.0	-11.6	20.0
1,2,3-Trichlorobenzene	Ave	0.4498	0.4236	0.0100	9.42	10.0	-5.8	20.0
2,4,5-Trichlorotoluene	Ave	0.1623	0.1562	0.0100	9.62	10.0	-3.8	20.0
2,3,6-Trichlorotoluene	Ave	0.1496	0.1528	0.0100	10.2	10.0	2.1	20.0
Dibromofluoromethane (Surr)	Ave	0.2455	0.2012		8.19	10.0	-18.1	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3373	0.2941		8.72	10.0	-12.8	20.0
Toluene-d8 (Surr)	Ave	3.857	4.149		10.8	10.0	7.6	20.0
4-Bromofluorobenzene (Surr)	Ave	1.455	1.434		9.85	10.0	-1.5	20.0

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151016-9043.b\51016004.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 16-Oct-2015 15:06:30 ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: CCVIS
Misc. Info.: 180-0009043-004
Operator ID: 001562 Instrument ID: CHHP5
Sublist: chrom-MSVOA_LL_CHHP5*sub4

Method: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151016-9043.b\MSVOA_LL_CHHP5.m
Limit Group: VOA 8260C ICAL
Last Update: 16-Oct-2015 16:14:29 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: XAWRK003

First Level Reviewer: fergusond Date: 16-Oct-2015 15:36:15

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.261	4.261	0.000	0	130084	1000.0	1000.0	
* 2 Fluorobenzene (IS)	96	7.290	7.290	0.000	97	469261	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.393	10.393	0.000	90	102658	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.729	12.729	0.000	97	146674	50.0	50.0	
$ 5 Dibromofluoromethane (Surr	113	6.560	6.560	0.000	94	94405	50.0	41.0	
$ 6 1,2-Dichloroethane-d4 (Sur	65	6.931	6.931	0.000	0	138027	50.0	43.6	
$ 7 Toluene-d8 (Surr)	98	8.939	8.939	0.000	94	425933	50.0	53.8	
$ 8 4-Bromofluorobenzene (Surr	95	11.573	11.573	0.000	87	147173	50.0	49.3	
11 Dichlorodifluoromethane	85	1.614	1.614	0.000	98	137953	50.0	52.0	
12 Chloromethane	50	1.760	1.760	0.000	99	163297	50.0	42.0	
13 Vinyl chloride	62	1.900	1.900	0.000	82	133168	50.0	38.6	
14 Butadiene	39	1.937	1.937	0.000	98	166727	50.0	40.9	
15 Bromomethane	94	2.247	2.247	0.000	92	48355	50.0	34.4	
16 Chloroethane	64	2.387	2.387	0.000	98	68516	50.0	32.9	
17 Dichlorofluoromethane	67	2.667	2.667	0.000	97	170918	50.0	38.7	
18 Trichlorofluoromethane	101	2.709	2.709	0.000	0	127331	50.0	38.5	M
20 Ethyl ether	59	3.050	3.050	0.000	99	128526	50.0	41.9	
21 Acrolein	56	3.233	3.233	0.000	98	46466	150.0	101.8	M
22 1,1-Dichloroethene	96	3.354	3.354	0.000	94	121860	50.0	46.6	
23 1,1,2-Trichloro-1,2,2-trif	101	3.415	3.415	0.000	94	124591	50.0	45.0	
24 Acetone	43	3.433	3.433	0.000	99	84989	100.0	89.8	
25 Iodomethane	142	3.543	3.543	0.000	98	155560	50.0	39.9	
26 Carbon disulfide	76	3.646	3.646	0.000	99	270684	50.0	44.6	
28 3-Chloro-1-propene	76	3.914	3.914	0.000	89	64133	50.0	43.3	
30 Methyl acetate	43	3.938	3.938	0.000	100	665651	250.0	235.3	
31 Methylene Chloride	84	4.139	4.139	0.000	94	146196	50.0	47.3	
32 2-Methyl-2-propanol	59	4.395	4.395	0.000	92	75721	500.0	517.2	
33 Acrylonitrile	53	4.522	4.522	0.000	97	637458	500.0	464.4	
34 trans-1,2-Dichloroethene	96	4.565	4.565	0.000	95	128292	50.0	45.2	
35 Methyl tert-butyl ether	73	4.583	4.583	0.000	95	273023	50.0	41.6	

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	250095	50.0	52.5	
37 1,1-Dichloroethane	63	5.198	5.198	0.000	97	255978	50.0	45.8	
38 Vinyl acetate	43	5.246	5.246	0.000	97	201872	50.0	48.1	
44 2,2-Dichloropropane	77	5.946	5.946	0.000	69	102410	50.0	45.7	
45 cis-1,2-Dichloroethene	96	5.946	5.946	0.000	84	132622	50.0	43.7	
46 2-Butanone (MEK)	43	5.958	5.958	0.000	99	132980	100.0	93.5	
49 Chlorobromomethane	128	6.232	6.232	0.000	89	52610	50.0	39.5	
51 Tetrahydrofuran	42	6.250	6.250	0.000	90	103310	100.0	90.5	
52 Chloroform	83	6.384	6.384	0.000	96	212963	50.0	44.1	
53 1,1,1-Trichloroethane	97	6.542	6.542	0.000	93	149550	50.0	41.9	
54 Cyclohexane	56	6.615	6.615	0.000	97	296051	50.0	49.5	
56 Carbon tetrachloride	117	6.712	6.712	0.000	94	124212	50.0	40.8	
55 1,1-Dichloropropene	75	6.724	6.724	0.000	90	182040	50.0	46.1	
57 Isobutyl alcohol	41	6.919	6.919	0.000	92	102223	1250.0	1143.9	
58 Benzene	78	6.943	6.943	0.000	98	542314	50.0	46.9	
59 1,2-Dichloroethane	62	7.016	7.016	0.000	95	180343	50.0	45.1	
62 n-Heptane	43	7.309	7.309	0.000	96	235465	50.0	54.4	
64 Trichloroethene	130	7.674	7.674	0.000	94	120672	50.0	42.6	
66 Methylcyclohexane	83	7.917	7.917	0.000	95	212750	50.0	47.7	
67 1,2-Dichloropropane	63	7.947	7.947	0.000	94	137506	50.0	45.3	
70 1,4-Dioxane	88	8.032	8.032	0.000	40	16879	1000.0	806.4	M
68 Dibromomethane	93	8.039	8.039	0.000	94	62506	50.0	40.6	
71 Dichlorobromomethane	83	8.233	8.233	0.000	97	132364	50.0	43.4	
74 cis-1,3-Dichloropropene	75	8.677	8.677	0.000	88	148910	50.0	41.7	
75 4-Methyl-2-pentanone (MIBK	43	8.823	8.823	0.000	98	224151	100.0	88.6	
76 Toluene	91	9.006	9.006	0.000	98	534242	50.0	52.6	
77 trans-1,3-Dichloropropene	75	9.249	9.249	0.000	98	123101	50.0	46.4	
78 Ethyl methacrylate	69	9.310	9.310	0.000	96	124418	50.0	48.5	
79 1,1,2-Trichloroethane	97	9.444	9.444	0.000	92	99089	50.0	51.3	
80 Tetrachloroethene	164	9.517	9.517	0.000	97	108166	50.0	54.8	
81 1,3-Dichloropropane	76	9.602	9.602	0.000	98	177870	50.0	49.6	
82 2-Hexanone	43	9.657	9.657	0.000	99	164210	100.0	89.9	
84 Chlorodibromomethane	129	9.815	9.815	0.000	89	74319	50.0	44.4	
85 Ethylene Dibromide	107	9.930	9.930	0.000	96	92637	50.0	49.7	
86 3-Chlorobenzotrifluoride	180	10.393	10.393	0.000	86	179946	50.0	55.1	
87 Chlorobenzene	112	10.417	10.417	0.000	90	313266	50.0	47.9	
88 4-Chlorobenzotrifluoride	180	10.478	10.478	0.000	96	173610	50.0	56.2	
89 1,1,1,2-Tetrachloroethane	131	10.508	10.508	0.000	90	96779	50.0	45.4	
90 Ethylbenzene	106	10.514	10.514	0.000	99	176184	50.0	50.8	
91 m-Xylene & p-Xylene	106	10.648	10.648	0.000	0	221542	50.0	52.1	
92 o-Xylene	106	11.032	11.032	0.000	98	206154	50.0	51.0	
93 Styrene	104	11.050	11.050	0.000	95	344594	50.0	51.5	
94 Bromoform	173	11.232	11.232	0.000	95	41606	50.0	43.6	
96 2-Chlorobenzotrifluoride	180	11.299	11.299	0.000	97	173210	50.0	53.9	
97 Isopropylbenzene	105	11.397	11.397	0.000	97	525908	50.0	53.1	
99 1,1,2,2-Tetrachloroethane	83	11.707	11.707	0.000	84	124515	50.0	47.7	
100 Bromobenzene	156	11.707	11.707	0.000	97	122926	50.0	48.8	
102 trans-1,4-Dichloro-2-buten	53	11.743	11.743	0.000	72	45372	50.0	49.8	
101 1,2,3-Trichloropropane	110	11.768	11.768	0.000	86	40341	50.0	48.6	
103 N-Propylbenzene	120	11.816	11.816	0.000	99	147808	50.0	51.3	
104 2-Chlorotoluene	126	11.902	11.902	0.000	95	123415	50.0	50.4	
105 3-Chlorotoluene	126	11.968	11.968	0.000	96	130173	50.0	51.7	

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	11.999	11.999	0.000	96	439306	50.0	53.9	
107 4-Chlorotoluene	126	12.023	12.023	0.000	99	127478	50.0	47.3	
108 tert-Butylbenzene	119	12.315	12.315	0.000	95	338816	50.0	51.2	
110 1,2,4-Trimethylbenzene	105	12.370	12.370	0.000	98	433169	50.0	53.1	
111 1,2-dichloro-4-(trifluorom	214	12.413	12.413	0.000	97	131144	50.0	57.7	
112 sec-Butylbenzene	105	12.534	12.534	0.000	95	516375	50.0	55.2	
113 1,3-Dichlorobenzene	146	12.650	12.650	0.000	98	229799	50.0	51.3	
114 4-Isopropyltoluene	119	12.692	12.692	0.000	97	411359	50.0	52.0	
115 1,4-Dichlorobenzene	146	12.753	12.753	0.000	93	231138	50.0	49.6	
116 2,4-Dichloro-1-(triflourom	214	12.784	12.784	0.000	97	119672	50.0	56.8	
118 2,5-Dichlorobenzotrifluori	214	12.820	12.820	0.000	0	133005	50.0	58.4	
120 n-Butylbenzene	91	13.100	13.100	0.000	98	359891	50.0	53.2	
121 1,2-Dichlorobenzene	146	13.112	13.112	0.000	94	206839	50.0	49.4	
122 1,2-Dibromo-3-Chloropropan	75	13.909	13.909	0.000	76	14529	50.0	42.2	
123 2,4- & 2,5- & 2,6- Dichlor	125	14.049	14.049	0.000	0	373994	150.0	156.3	
125 2,3- & 3,4- Dichlorotoluen	125	14.463	14.463	0.000	0	221964	100.0	97.3	
126 1,2,4-Trichlorobenzene	180	14.730	14.730	0.000	94	78719	50.0	48.3	
127 Hexachlorobutadiene	225	14.876	14.876	0.000	95	46424	50.0	59.1	
128 Naphthalene	128	14.992	14.992	0.000	97	185250	50.0	44.2	
129 1,2,3-Trichlorobenzene	180	15.223	15.223	0.000	94	62133	50.0	47.1	
131 2,4,5-Trichlorotoluene	159	15.996	15.996	0.000	0	22904	50.0	48.1	
130 2,3,6-Trichlorotoluene	159	16.093	16.093	0.000	94	22405	50.0	51.0	
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 134 1,2-Dichloroethene, Total	96				0		100.0	89.0	
S 133 Xylenes, Total	106				0		100.0	103.1	
S 135 1,3-Dichloropropene, Total	1				0		100.0	88.1	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

voaWAcro1stRe_00001	Amount Added:	6.00	Units: uL		
voaWEEpri Res_00006	Amount Added:	2.00	Units: uL		
VOA8260VOAPRI_00148	Amount Added:	2.00	Units: uL		
voaWVA1stRest_00001	Amount Added:	2.00	Units: uL		
voaWKetmix2nd_00002	Amount Added:	2.00	Units: uL		
VOA8260INT_00043	Amount Added:	2.00	Units: uL	Run Reagent	
VOA8260SURR_00043	Amount Added:	2.00	Units: uL	Run Reagent	

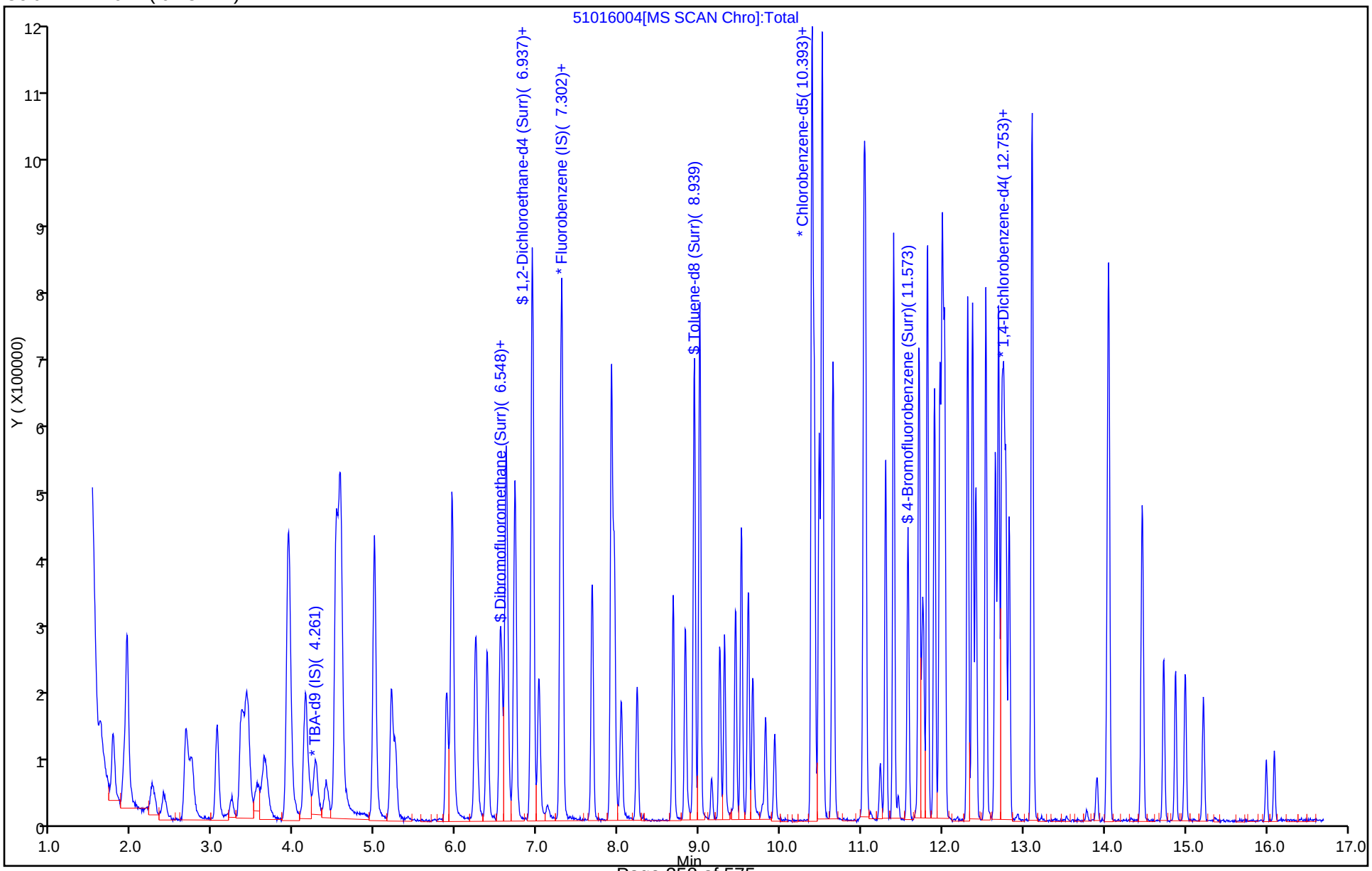
Report Date: 16-Oct-2015 16:14:30 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151016-9043.b\51016004.D

Injection Date:	16-Oct-2015 15:06:30	Instrument ID:	CHHP5	Operator ID:	001562
Lims ID:	CCVIS			Worklist Smp#:	4
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	MSVOA_LL_CHHP5	Limit Group:	VOA 8260C ICAL		

Column: DB-624 (0.18 mm)



Manual Integration/User Assign Peak Report

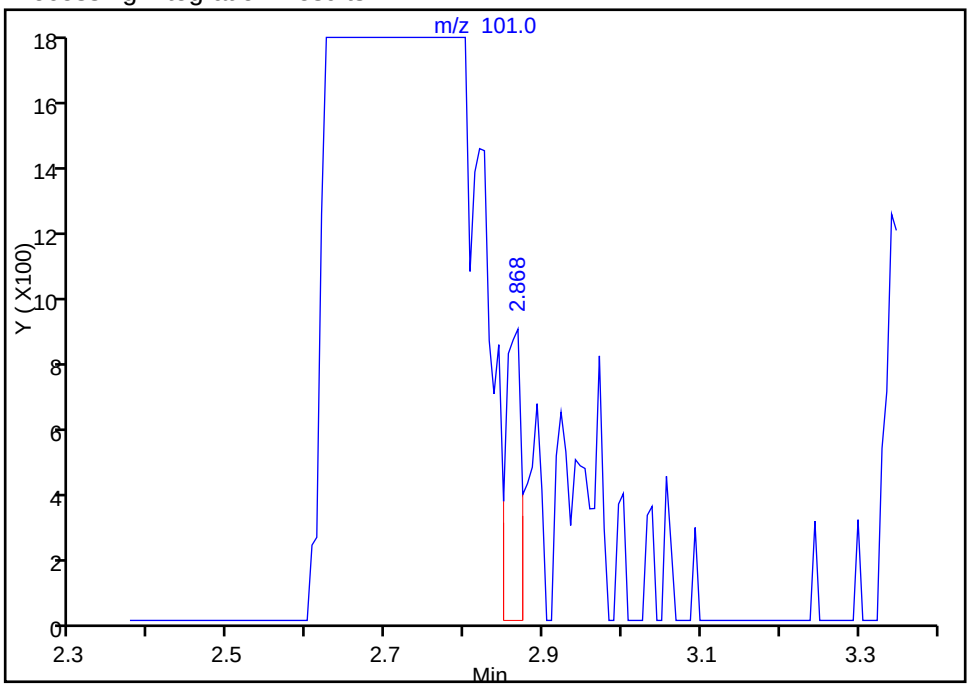
TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151016-9043.b\51016004.D
Injection Date: 16-Oct-2015 15:06:30 Instrument ID: CHHP5
Lims ID: CCVIS
Client ID:
Operator ID: 001562 ALS Bottle#: 4 Worklist Smp#: 4
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

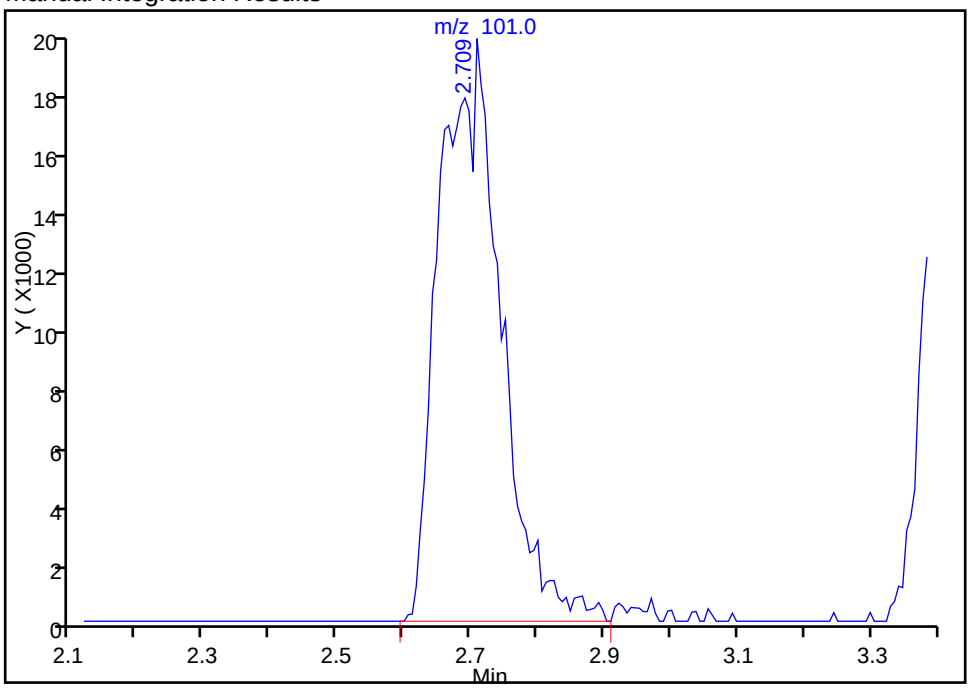
Processing Integration Results

RT: 2.87
Area: 1166
Amount: 0.352666
Amount Units: ng



Manual Integration Results

RT: 2.71
Area: 127331
Amount: 38.512291
Amount Units: ng



Reviewer: fergusond, 16-Oct-2015 15:36:15
Audit Action: Manually Integrated
Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

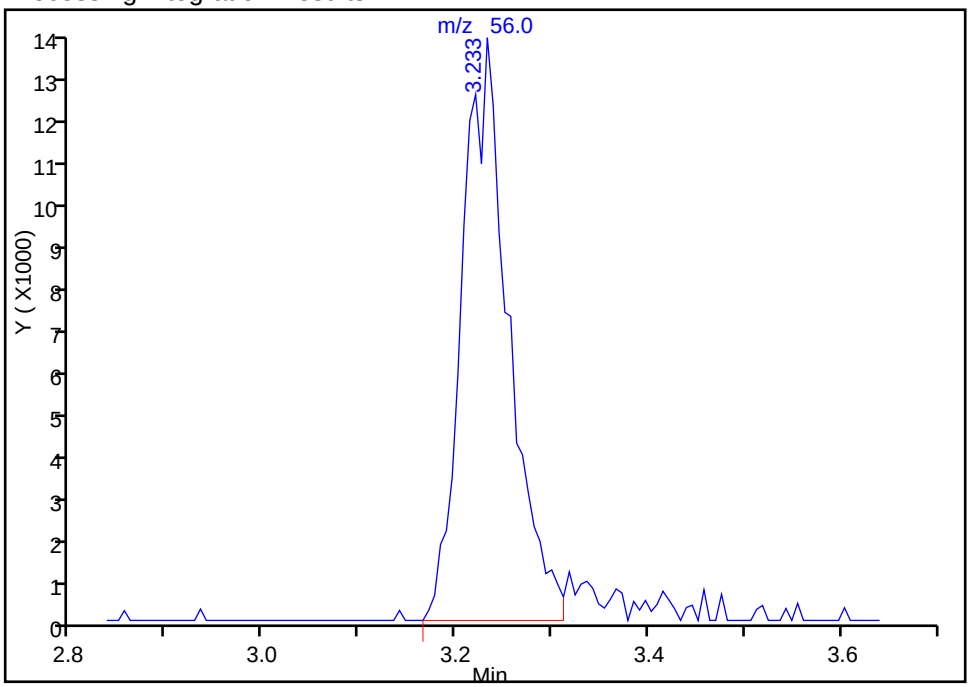
TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151016-9043.b\51016004.D
Injection Date: 16-Oct-2015 15:06:30 Instrument ID: CHHP5
Lims ID: CCVIS
Client ID:
Operator ID: 001562 ALS Bottle#: 4 Worklist Smp#: 4
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

21 Acrolein, CAS: 107-02-8

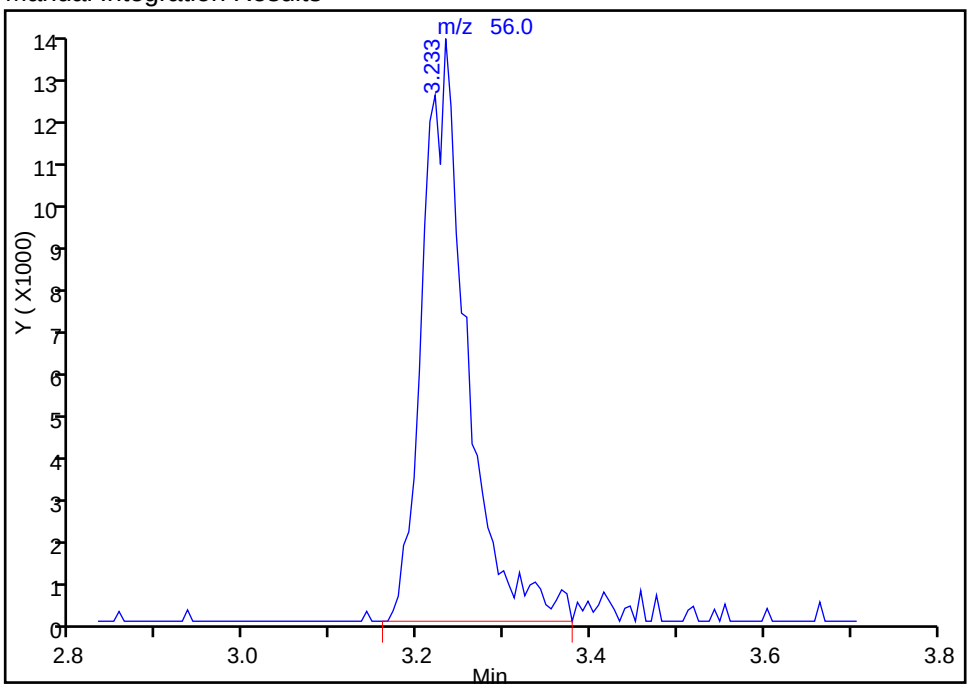
Processing Integration Results

RT: 3.23
Area: 44082
Amount: 96.567837
Amount Units: ng



Manual Integration Results

RT: 3.23
Area: 46466
Amount: 101.7903
Amount Units: ng



Reviewer: fergusond, 16-Oct-2015 15:36:15
Audit Action: Manually Integrated
Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

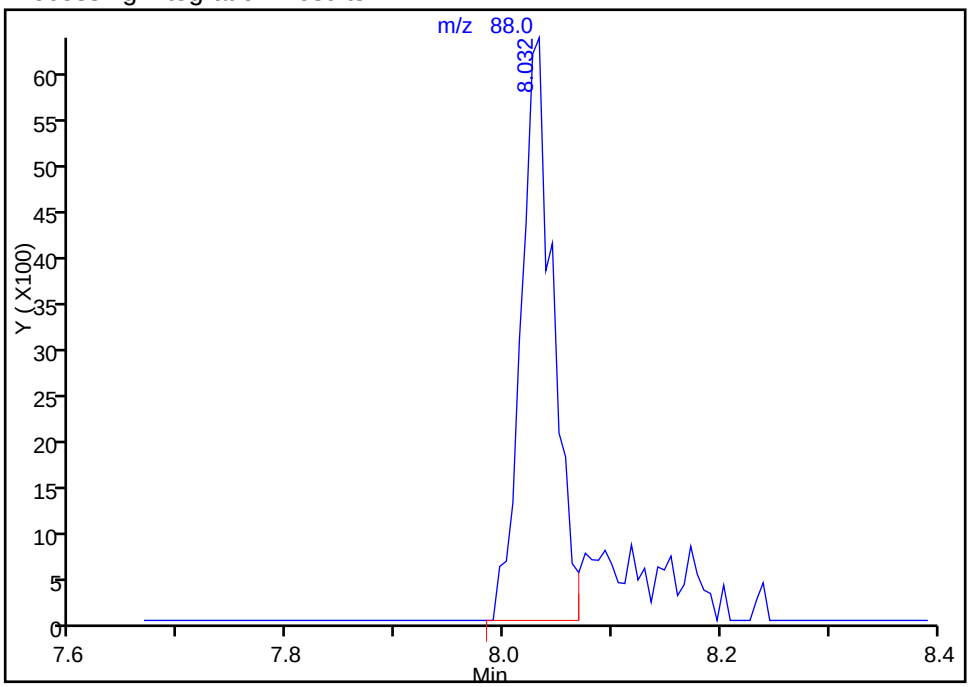
TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151016-9043.b\51016004.D
Injection Date: 16-Oct-2015 15:06:30 Instrument ID: CHHP5
Lims ID: CCVIS
Client ID:
Operator ID: 001562 ALS Bottle#: 4 Worklist Smp#: 4
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

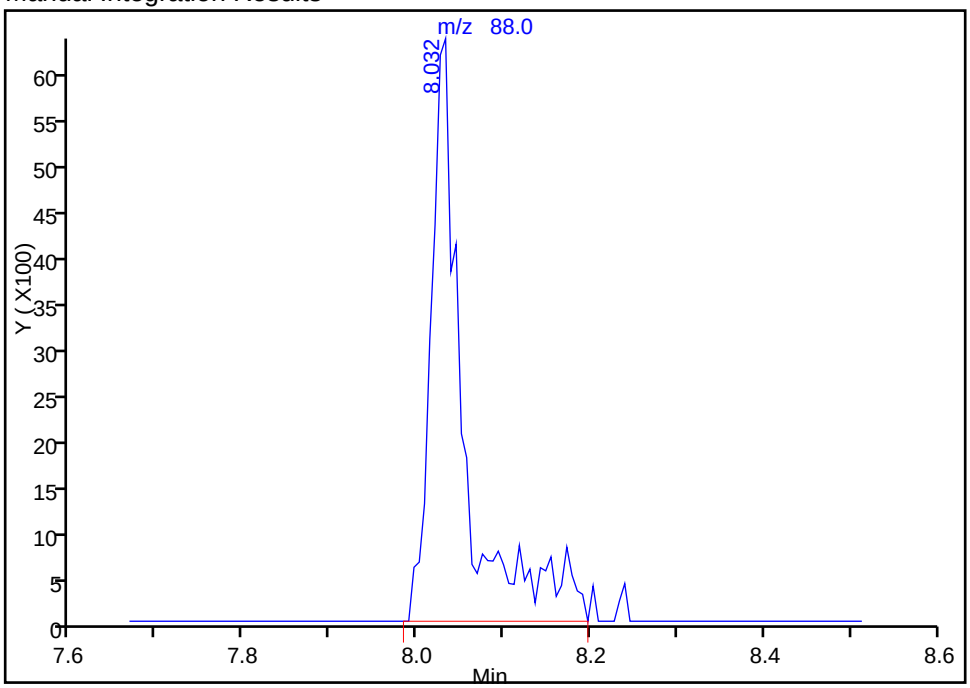
Processing Integration Results

RT: 8.03
Area: 12954
Amount: 618.8583
Amount Units: ng



Manual Integration Results

RT: 8.03
Area: 16879
Amount: 806.3695
Amount Units: ng



Reviewer: fergusond, 16-Oct-2015 15:36:15
Audit Action: Manually Integrated
Audit Reason: Incomplete Integration

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Pittsburgh Job No.: 180-48435-1

SDG No.:

Lab Sample ID: CCVIS 180-157327/2 Calibration Date: 10/17/2015 10:09

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: 51017002.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	0.3598	0.1000	12.7	10.0	27.4*	20.0
Chloromethane	Ave	0.4148	0.4153	0.1000	10.0	10.0	0.1	20.0
Vinyl chloride	Ave	0.3679	0.3432	0.1000	9.33	10.0	-6.7	20.0
1,3-Butadiene	Ave	0.4345	0.4240	0.0100	9.76	10.0	-2.4	20.0
Bromomethane	Ave	0.1497	0.1319	0.0500	8.81	10.0	-11.9	20.0
Chloroethane	Ave	0.2220	0.1866	0.0500	8.41	10.0	-15.9	20.0
Dichlorofluoromethane	Ave	0.4709	0.5040	0.0100	10.7	10.0	7.0	20.0
Trichlorofluoromethane	Ave	0.3523	0.4135	0.1000	11.7	10.0	17.4	20.0
Ethyl ether	Ave	0.3265	0.2829	0.0100	8.66	10.0	-13.4	20.0
Acrolein	Ave	0.0486	0.0333	0.0100	20.5	30.0	-31.5*	20.0
1,1-Dichloroethene	Ave	0.2785	0.2490	0.1000	8.94	10.0	-10.6	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.2951	0.2605	0.1000	8.83	10.0	-11.7	20.0
Acetone	Ave	0.1009	0.0697	0.0500	13.8	20.0	-30.9*	20.0
Iodomethane	Ave	0.4150	0.3447	0.0100	8.30	10.0	-17.0	20.0
Carbon disulfide	Ave	0.6466	0.6437	0.1000	9.95	10.0	-0.5	20.0
Allyl chloride	Ave	0.1577	0.1449	0.0100	9.19	10.0	-8.1	20.0
Methyl acetate	Ave	0.3015	0.2917	0.1000	48.4	50.0	-3.2	20.0
Methylene Chloride	Lin2		0.2819	0.1000	8.45	10.0	-15.5	20.0
tert-Butyl alcohol	Ave	1.126	0.9891	0.0100	87.9	100	-12.1	20.0
Acrylonitrile	Ave	0.1463	0.1354	0.0100	92.6	100	-7.4	20.0
trans-1,2-Dichloroethene	Ave	0.3024	0.2673	0.1000	8.84	10.0	-11.6	20.0
Methyl tert-butyl ether	Ave	0.6999	0.6102	0.1000	8.72	10.0	-12.8	20.0
Hexane	Ave	0.5076	0.5558	0.0100	11.0	10.0	9.5	20.0
1,1-Dichloroethane	Ave	0.5957	0.5457	0.2000	9.16	10.0	-8.4	20.0
2,2-Dichloropropane	Ave	0.2387	0.2754	0.0100	11.5	10.0	15.4	20.0
cis-1,2-Dichloroethene	Ave	0.3230	0.2825	0.1000	8.75	10.0	-12.5	20.0
2-Butanone (MEK)	Ave	0.1516	0.1237	0.0500	16.3	20.0	-18.4	20.0
Bromochloromethane	Ave	0.1418	0.1098	0.0100	7.74	10.0	-22.6*	20.0
Tetrahydrofuran	Ave	0.1216	0.1150	0.0100	18.9	20.0	-5.4	20.0
Chloroform	Ave	0.5146	0.4459	0.2000	8.66	10.0	-13.4	20.0
1,1,1-Trichloroethane	Ave	0.3805	0.3513	0.1000	9.23	10.0	-7.7	20.0
Cyclohexane	Ave	0.6367	0.6920	0.1000	10.9	10.0	8.7	20.0
Carbon tetrachloride	Ave	0.3240	0.2897	0.1000	8.94	10.0	-10.6	20.0
1,1-Dichloropropene	Ave	0.4208	0.4011	0.0100	9.53	10.0	-4.7	20.0
Isobutyl alcohol	Ave	0.0095	0.0082*	0.0100	215	250	-14.1	20.0
Benzene	Ave	1.233	1.173	0.5000	9.52	10.0	-4.8	20.0
1,2-Dichloroethane	Ave	0.4264	0.3897	0.1000	9.14	10.0	-8.6	20.0
n-Heptane	Ave	0.4611	0.5265	0.0100	11.4	10.0	14.2	20.0
Trichloroethene	Ave	0.3016	0.2606	0.2000	8.64	10.0	-13.6	20.0
Methylcyclohexane	Ave	0.4753	0.4899	0.1000	10.3	10.0	3.1	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Pittsburgh Job No.: 180-48435-1

SDG No.:

Lab Sample ID: CCVIS 180-157327/2 Calibration Date: 10/17/2015 10:09

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: 51017002.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
1,2-Dichloropropane	Ave	0.3235	0.2946	0.1000	9.11	10.0	-8.9	20.0
1,4-Dioxane	Ave	0.0022	0.0021*	0.0100	187	200	-6.6	20.0
Dibromomethane	Ave	0.1642	0.1368	0.0100	8.33	10.0	-16.7	20.0
Bromodichloromethane	Ave	0.3249	0.2965	0.2000	9.12	10.0	-8.8	20.0
cis-1,3-Dichloropropene	Ave	0.3807	0.3519	0.2000	9.24	10.0	-7.6	20.0
4-Methyl-2-pentanone (MIBK)	Ave	1.232	1.202	0.1000	19.5	20.0	-2.5	20.0
Toluene	Ave	4.950	5.334	0.4000	10.8	10.0	7.8	20.0
trans-1,3-Dichloropropene	Ave	1.292	1.395	0.1000	10.8	10.0	8.0	20.0
Ethyl methacrylate	Ave	1.249	1.390	0.0100	11.1	10.0	11.3	20.0
1,1,2-Trichloroethane	Ave	0.9416	0.9548	0.1000	10.1	10.0	1.4	20.0
Tetrachloroethene	Ave	0.9609	1.043	0.2000	10.9	10.0	8.6	20.0
1,3-Dichloropropane	Ave	1.748	1.823	0.0100	10.4	10.0	4.3	20.0
2-Hexanone	Ave	0.8893	0.7555	0.1000	17.0	20.0	-15.0	20.0
Dibromochloromethane	Ave	0.8152	0.8310	0.1000	10.2	10.0	1.9	20.0
1,2-Dibromoethane (EDB)	Ave	0.9073	0.9182	0.1000	10.1	10.0	1.2	20.0
3-Chlorobenzotrifluoride	Ave	1.591	1.777	0.0100	11.2	10.0	11.7	20.0
Chlorobenzene	Ave	3.187	3.131	0.5000	9.82	10.0	-1.8	20.0
4-Chlorobenzotrifluoride	Ave	1.504	1.654	0.0100	11.0	10.0	10.0	20.0
1,1,1,2-Tetrachloroethane	Ave	1.039	0.9657	0.0100	9.30	10.0	-7.0	20.0
Ethylbenzene	Ave	1.690	1.772	0.1000	10.5	10.0	4.9	20.0
m-Xylene & p-Xylene	Ave	2.072	2.187	0.1000	10.6	10.0	5.6	20.0
o-Xylene	Ave	1.969	2.096	0.3000	10.6	10.0	6.5	20.0
Styrene	Ave	3.262	3.507	0.3000	10.8	10.0	7.5	20.0
Bromoform	Ave	0.4652	0.4746	0.1000	10.2	10.0	2.0	20.0
2-Chlorobenzotrifluoride	Ave	1.565	1.565	0.0100	10.0	10.0	-0.0	20.0
Isopropylbenzene	Ave	4.822	5.230	0.1000	10.8	10.0	8.5	20.0
1,1,2,2-Tetrachloroethane	Ave	1.270	1.272	0.3000	10.0	10.0	0.2	20.0
Bromobenzene	Ave	0.8583	0.8887	0.0100	10.4	10.0	3.5	20.0
trans-1,4-Dichloro-2-butene	Ave	0.3103	0.3607	0.0100	11.6	10.0	16.2	20.0
1,2,3-Trichloropropane	Ave	0.2831	0.3126	0.0100	11.0	10.0	10.4	20.0
N-Propylbenzene	Ave	0.9825	1.073	0.0100	10.9	10.0	9.2	20.0
2-Chlorotoluene	Ave	0.8351	0.8891	0.0100	10.6	10.0	6.5	20.0
3-Chlorotoluene	Ave	0.8583	0.8908	0.0100	10.4	10.0	3.8	20.0
1,3,5-Trimethylbenzene	Ave	2.776	3.161	0.0100	11.4	10.0	13.9	20.0
4-Chlorotoluene	Ave	0.9190	0.9467	0.0100	10.3	10.0	3.0	20.0
tert-Butylbenzene	Ave	2.257	2.483	0.0100	11.0	10.0	10.0	20.0
1,2,4-Trimethylbenzene	Ave	2.781	3.159	0.0100	11.4	10.0	13.6	20.0
3,4-Dichlorobenzotrifluoride	Ave	0.7754	0.9085	0.0100	11.7	10.0	17.2	20.0
sec-Butylbenzene	Ave	3.187	3.686	0.0100	11.6	10.0	15.7	20.0
1,3-Dichlorobenzene	Ave	1.528	1.621	0.6000	10.6	10.0	6.0	20.0
4-Isopropyltoluene	Ave	2.696	2.960	0.0100	11.0	10.0	9.8	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Pittsburgh Job No.: 180-48435-1

SDG No.:

Lab Sample ID: CCVIS 180-157327/2 Calibration Date: 10/17/2015 10:09

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: 51017002.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
1,4-Dichlorobenzene	Ave	1.590	1.648	0.5000	10.4	10.0	3.7	20.0
2,4-Dichlorobenzotrifluoride	Ave	0.7185	0.7500	0.0100	10.4	10.0	4.4	20.0
2,5-Dichlorobenzotrifluoride	Ave	0.7765	0.8696	0.0100	11.2	10.0	12.0	20.0
n-Butylbenzene	Ave	2.307	2.425	0.0100	10.5	10.0	5.1	20.0
1,2-Dichlorobenzene	Ave	1.428	1.415	0.4000	9.90	10.0	-1.0	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.1173	0.1200	0.0500	10.2	10.0	2.3	20.0
2,4- & 2,5- & 2,6-Dichlorotoluene	Ave	0.8157	0.7063	0.0100	26.0	30.0	-13.4	20.0
2,3- & 3,4- Dichlorotoluene	Ave	0.7778	0.6521	0.0100	16.8	20.0	-16.2	20.0
1,2,4-Trichlorobenzene	Ave	0.5557	0.5021	0.2000	9.04	10.0	-9.6	20.0
Hexachlorobutadiene	Ave	0.2677	0.2699	0.0100	10.1	10.0	0.8	20.0
Naphthalene	Ave	1.428	1.191	0.0100	8.34	10.0	-16.6	20.0
1,2,3-Trichlorobenzene	Ave	0.4498	0.3867	0.0100	8.60	10.0	-14.0	20.0
2,4,5-Trichlorotoluene	Ave	0.1623	0.1390	0.0100	8.56	10.0	-14.4	20.0
2,3,6-Trichlorotoluene	Ave	0.1496	0.1493	0.0100	9.97	10.0	-0.3	20.0
Dibromofluoromethane (Surr)	Ave	0.2455	0.2025		8.25	10.0	-17.5	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3373	0.2863		8.49	10.0	-15.1	20.0
Toluene-d8 (Surr)	Ave	3.857	4.162		10.8	10.0	7.9	20.0
4-Bromofluorobenzene (Surr)	Ave	1.455	1.576		10.8	10.0	8.3	20.0

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151017-9055.b\51017002.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 17-Oct-2015 10:09:30 ALS Bottle#: 1 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: CCVIS
Misc. Info.: 180-0009055-002
Operator ID: 034635 Instrument ID: CHHP5
Sublist: chrom-MSVOA_LL_CHHP5*sub21

Method: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151017-9055.b\MSVOA_LL_CHHP5.m
Limit Group: VOA 8260C ICAL
Last Update: 17-Oct-2015 17:48:19 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: XAWRK051

First Level Reviewer: journetp Date: 17-Oct-2015 10:29:07

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	4.260	0.000	0	122820	1000.0	1000.0	M
* 2 Fluorobenzene (IS)	96	7.289	7.289	0.000	98	461537	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.392	10.392	0.000	90	100060	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.734	12.734	0.000	94	131704	50.0	50.0	
$ 5 Dibromofluoromethane (Surr	113	6.559	6.559	0.000	94	93450	50.0	41.2	
$ 6 1,2-Dichloroethane-d4 (Sur	65	6.936	6.936	0.000	0	132134	50.0	42.4	
$ 7 Toluene-d8 (Surr)	98	8.938	8.938	0.000	95	416454	50.0	53.9	
$ 8 4-Bromofluorobenzene (Surr	95	11.572	11.572	0.000	87	157669	50.0	54.1	
11 Dichlorodifluoromethane	85	1.607	1.607	0.000	98	166063	50.0	63.7	
12 Chloromethane	50	1.766	1.766	0.000	99	191696	50.0	50.1	
13 Vinyl chloride	62	1.893	1.893	0.000	98	158417	50.0	46.6	
14 Butadiene	39	1.936	1.936	0.000	96	195697	50.0	48.8	
15 Bromomethane	94	2.246	2.246	0.000	91	60863	50.0	44.0	
16 Chloroethane	64	2.386	2.386	0.000	98	86140	50.0	42.0	
17 Dichlorofluoromethane	67	2.654	2.654	0.000	96	232633	50.0	53.5	
18 Trichlorofluoromethane	101	2.702	2.702	0.000	97	190829	50.0	58.7	
20 Ethyl ether	59	3.043	3.043	0.000	97	130565	50.0	43.3	
21 Acrolein	56	3.232	3.232	0.000	95	46132	150.0	102.7	
22 1,1-Dichloroethene	96	3.347	3.347	0.000	93	114928	50.0	44.7	
23 1,1,2-Trichloro-1,2,2-trif	101	3.414	3.414	0.000	94	120214	50.0	44.1	
24 Acetone	43	3.432	3.432	0.000	97	64328	100.0	69.1	
25 Iodomethane	142	3.542	3.542	0.000	98	159076	50.0	41.5	
26 Carbon disulfide	76	3.627	3.627	0.000	99	297106	50.0	49.8	
28 3-Chloro-1-propene	76	3.913	3.913	0.000	89	66880	50.0	45.9	
30 Methyl acetate	43	3.937	3.937	0.000	100	673150	250.0	241.9	
31 Methylene Chloride	84	4.132	4.132	0.000	94	130127	50.0	42.2	
32 2-Methyl-2-propanol	59	4.400	4.400	0.000	86	60740	500.0	439.4	
33 Acrylonitrile	53	4.515	4.515	0.000	99	625017	500.0	462.9	
34 trans-1,2-Dichloroethene	96	4.564	4.564	0.000	88	123389	50.0	44.2	
35 Methyl tert-butyl ether	73	4.570	4.570	0.000	95	281622	50.0	43.6	

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	96	256517	50.0	54.8	
37 1,1-Dichloroethane	63	5.203	5.203	0.000	97	251876	50.0	45.8	
44 2,2-Dichloropropane	77	5.945	5.945	0.000	60	127122	50.0	57.7	
45 cis-1,2-Dichloroethene	96	5.951	5.951	0.000	85	130387	50.0	43.7	
46 2-Butanone (MEK)	43	5.957	5.957	0.000	76	114174	100.0	81.6	M
49 Chlorobromomethane	128	6.237	6.237	0.000	88	50663	50.0	38.7	
51 Tetrahydrofuran	42	6.243	6.243	0.000	81	106137	100.0	94.6	
52 Chloroform	83	6.383	6.383	0.000	97	205802	50.0	43.3	
53 1,1,1-Trichloroethane	97	6.541	6.541	0.000	95	162128	50.0	46.2	
54 Cyclohexane	56	6.614	6.614	0.000	97	319363	50.0	54.3	
56 Carbon tetrachloride	117	6.717	6.717	0.000	96	133702	50.0	44.7	
55 1,1-Dichloropropene	75	6.724	6.724	0.000	92	185102	50.0	47.7	
57 Isobutyl alcohol	41	6.918	6.918	0.000	93	94409	1250.0	1074.1	
58 Benzene	78	6.943	6.943	0.000	97	541479	50.0	47.6	
59 1,2-Dichloroethane	62	7.022	7.022	0.000	97	179865	50.0	45.7	
62 n-Heptane	43	7.308	7.308	0.000	97	243001	50.0	57.1	
64 Trichloroethene	130	7.679	7.679	0.000	96	120252	50.0	43.2	
66 Methylcyclohexane	83	7.916	7.916	0.000	96	226125	50.0	51.5	
67 1,2-Dichloropropane	63	7.952	7.952	0.000	94	135986	50.0	45.5	
68 Dibromomethane	93	8.031	8.031	0.000	96	63129	50.0	41.7	
70 1,4-Dioxane	88	8.031	8.031	0.000	35	19235	1000.0	934.3	M
71 Dichlorobromomethane	83	8.226	8.226	0.000	97	136830	50.0	45.6	
74 cis-1,3-Dichloropropene	75	8.676	8.676	0.000	89	162432	50.0	46.2	
75 4-Methyl-2-pentanone (MIBK	43	8.828	8.828	0.000	99	240444	100.0	97.5	
76 Toluene	91	9.005	9.005	0.000	98	533748	50.0	53.9	
77 trans-1,3-Dichloropropene	75	9.248	9.248	0.000	99	139552	50.0	54.0	
78 Ethyl methacrylate	69	9.309	9.309	0.000	95	139081	50.0	55.6	
79 1,1,2-Trichloroethane	97	9.449	9.449	0.000	94	95535	50.0	50.7	
80 Tetrachloroethene	164	9.516	9.516	0.000	97	104377	50.0	54.3	
81 1,3-Dichloropropane	76	9.601	9.601	0.000	96	182371	50.0	52.1	
82 2-Hexanone	43	9.656	9.656	0.000	98	151194	100.0	85.0	
84 Chlorodibromomethane	129	9.814	9.814	0.000	90	83154	50.0	51.0	
85 Ethylene Dibromide	107	9.930	9.930	0.000	97	91875	50.0	50.6	
86 3-Chlorobenzotrifluoride	180	10.392	10.392	0.000	87	177792	50.0	55.9	
87 Chlorobenzene	112	10.416	10.416	0.000	91	313260	50.0	49.1	
88 4-Chlorobenzotrifluoride	180	10.477	10.477	0.000	95	165521	50.0	55.0	
89 1,1,1,2-Tetrachloroethane	131	10.507	10.507	0.000	91	96629	50.0	46.5	
90 Ethylbenzene	106	10.520	10.520	0.000	99	177315	50.0	52.4	
91 m-Xylene & p-Xylene	106	10.647	10.647	0.000	0	218861	50.0	52.8	
92 o-Xylene	106	11.031	11.031	0.000	97	209765	50.0	53.2	
93 Styrene	104	11.049	11.049	0.000	95	350895	50.0	53.8	
94 Bromoform	173	11.231	11.231	0.000	96	47486	50.0	51.0	
96 2-Chlorobenzotrifluoride	180	11.298	11.298	0.000	94	156555	50.0	50.0	
97 Isopropylbenzene	105	11.396	11.396	0.000	98	523302	50.0	54.2	
99 1,1,2,2-Tetrachloroethane	83	11.712	11.712	0.000	75	127311	50.0	50.1	
100 Bromobenzene	156	11.712	11.712	0.000	97	117050	50.0	51.8	
102 trans-1,4-Dichloro-2-buten	53	11.742	11.742	0.000	68	47500	50.0	58.1	
101 1,2,3-Trichloropropane	110	11.767	11.767	0.000	87	41169	50.0	55.2	
103 N-Propylbenzene	120	11.815	11.815	0.000	99	141270	50.0	54.6	
104 2-Chlorotoluene	126	11.901	11.901	0.000	95	117103	50.0	53.2	
105 3-Chlorotoluene	126	11.967	11.967	0.000	96	117324	50.0	51.9	
106 1,3,5-Trimethylbenzene	105	11.998	11.998	0.000	95	416316	50.0	56.9	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
107 4-Chlorotoluene	126	12.022	12.022	0.000	98	124686	50.0	51.5	
108 tert-Butylbenzene	119	12.308	12.308	0.000	95	327022	50.0	55.0	
110 1,2,4-Trimethylbenzene	105	12.369	12.369	0.000	99	416104	50.0	56.8	
111 1,2-dichloro-4-(trifluorom	214	12.412	12.412	0.000	98	119647	50.0	58.6	
112 sec-Butylbenzene	105	12.533	12.533	0.000	95	485489	50.0	57.8	
113 1,3-Dichlorobenzene	146	12.649	12.649	0.000	95	213468	50.0	53.0	
114 4-Isopropyltoluene	119	12.691	12.691	0.000	97	389865	50.0	54.9	
115 1,4-Dichlorobenzene	146	12.758	12.758	0.000	93	217018	50.0	51.8	
116 2,4-Dichloro-1-(triflourom	214	12.783	12.783	0.000	96	98775	50.0	52.2	
118 2,5-Dichlorobenzotrifluori	214	12.825	12.825	0.000	0	114534	50.0	56.0	
120 n-Butylbenzene	91	13.099	13.099	0.000	98	319344	50.0	52.6	
121 1,2-Dichlorobenzene	146	13.111	13.111	0.000	94	186305	50.0	49.5	
122 1,2-Dibromo-3-Chloropropan	75	13.902	13.902	0.000	78	15798	50.0	51.1	
123 2,4- & 2,5- & 2,6- Dichlor	125	14.048	14.048	0.000	0	279048	150.0	129.9	
125 2,3- & 3,4- Dichlorotoluen	125	14.468	14.468	0.000	0	171763	100.0	83.8	
126 1,2,4-Trichlorobenzene	180	14.729	14.729	0.000	93	66126	50.0	45.2	
127 Hexachlorobutadiene	225	14.875	14.875	0.000	94	35549	50.0	50.4	
128 Naphthalene	128	14.991	14.991	0.000	97	156896	50.0	41.7	
129 1,2,3-Trichlorobenzene	180	15.216	15.216	0.000	94	50926	50.0	43.0	
131 2,4,5-Trichlorotoluene	159	15.995	15.995	0.000	0	18306	50.0	42.8	
130 2,3,6-Trichlorotoluene	159	16.092	16.092	0.000	91	19657	50.0	49.9	
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	87.9	
S 133 Xylenes, Total	106				0		100.0	106.0	
S 135 1,3-Dichloropropene, Total	1				0		100.0	100.2	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

voaWAcro1stRe_00002	Amount Added:	6.00	Units: uL	
voaWEEpri Res_00006	Amount Added:	2.00	Units: uL	
VOA8260VOAPRI_00148	Amount Added:	2.00	Units: uL	
voaWKetmix2nd_00002	Amount Added:	2.00	Units: uL	
VOA8260INT_00043	Amount Added:	2.00	Units: uL	Run Reagent
VOA8260SURR_00043	Amount Added:	2.00	Units: uL	Run Reagent

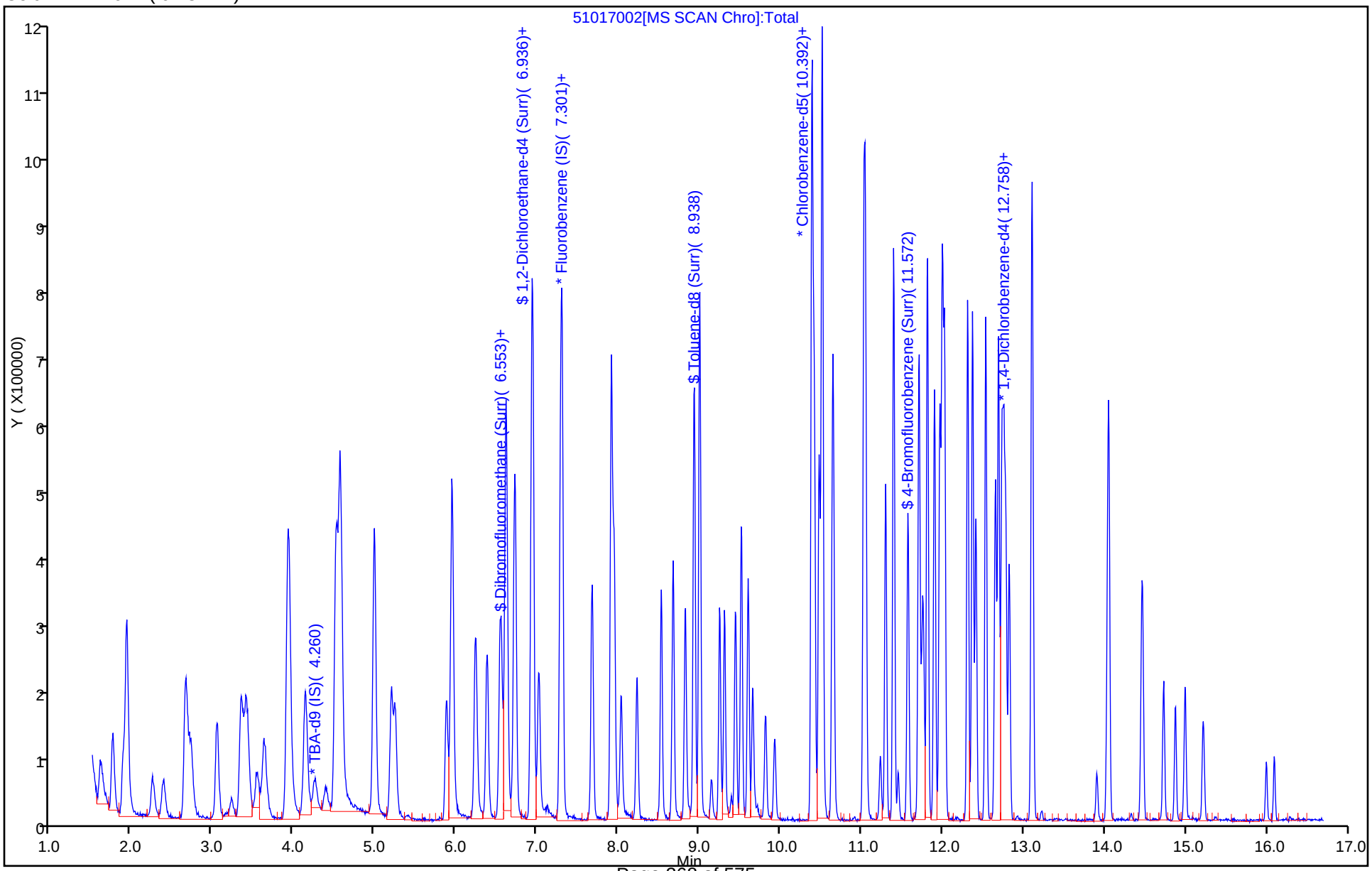
Report Date: 17-Oct-2015 17:48:20 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151017-9055.b\51017002.D

Injection Date:	17-Oct-2015 10:09:30	Instrument ID:	CHHP5	Operator ID:	034635
Lims ID:	CCVIS			Worklist Smp#:	2
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	MSVOA_LL_CHHP5	Limit Group:	VOA 8260C ICAL		

Column: DB-624 (0.18 mm)



Manual Integration/User Assign Peak Report

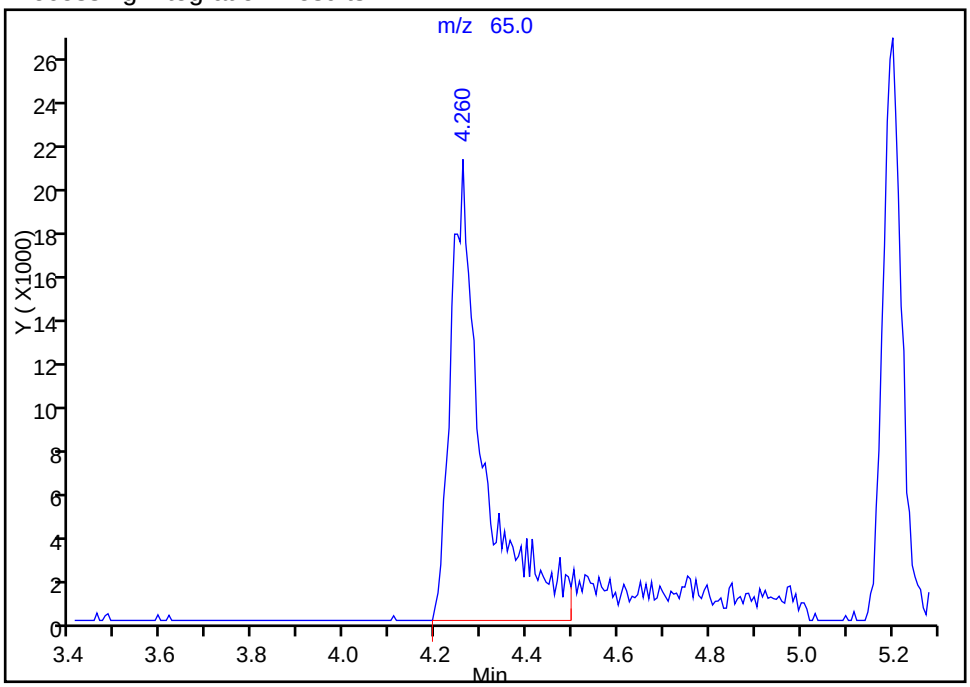
TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151017-9055.b\51017002.D
Injection Date: 17-Oct-2015 10:09:30 Instrument ID: CHHP5
Lims ID: CCVIS
Client ID:
Operator ID: 034635 ALS Bottle#: 1 Worklist Smp#: 2
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

* 1 TBA-d9 (IS), CAS: 25725-11-5

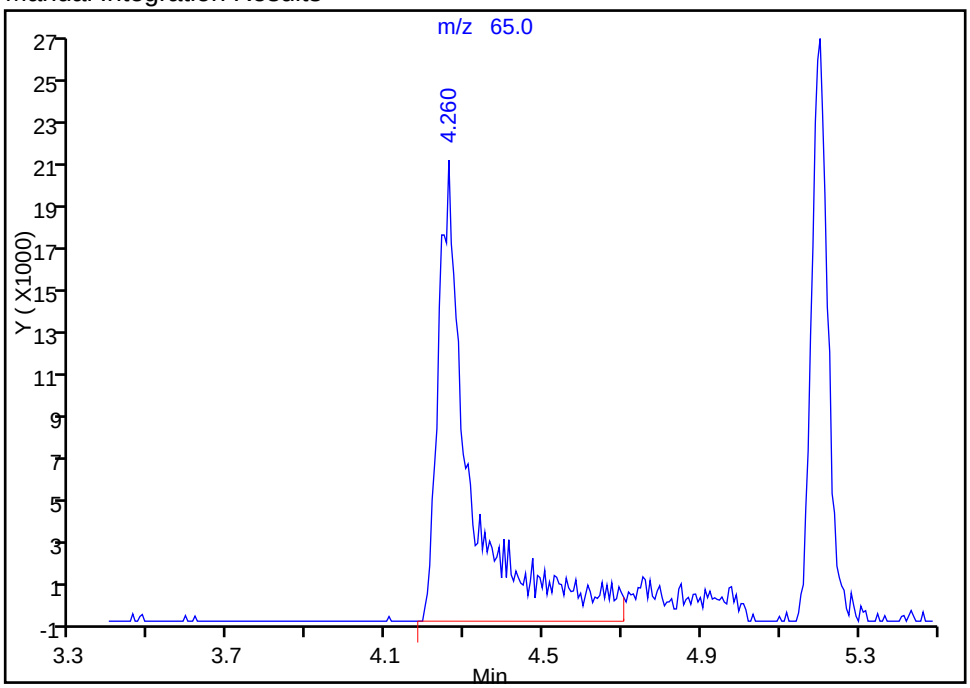
Processing Integration Results

RT: 4.26
Area: 105436
Amount: 1000.0000
Amount Units: ng



Manual Integration Results

RT: 4.26
Area: 122820
Amount: 1000.0000
Amount Units: ng



Reviewer: journetp, 17-Oct-2015 10:34:04
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

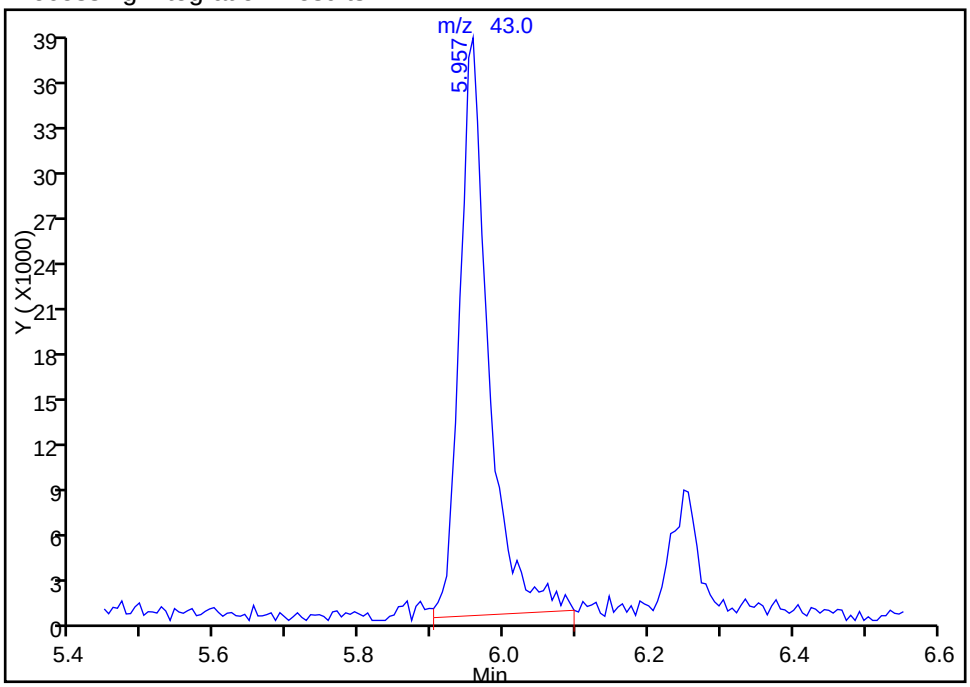
TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151017-9055.b\51017002.D
Injection Date: 17-Oct-2015 10:09:30 Instrument ID: CHHP5
Lims ID: CCVIS
Client ID:
Operator ID: 034635 ALS Bottle#: 1 Worklist Smp#: 2
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

46 2-Butanone (MEK), CAS: 78-93-3

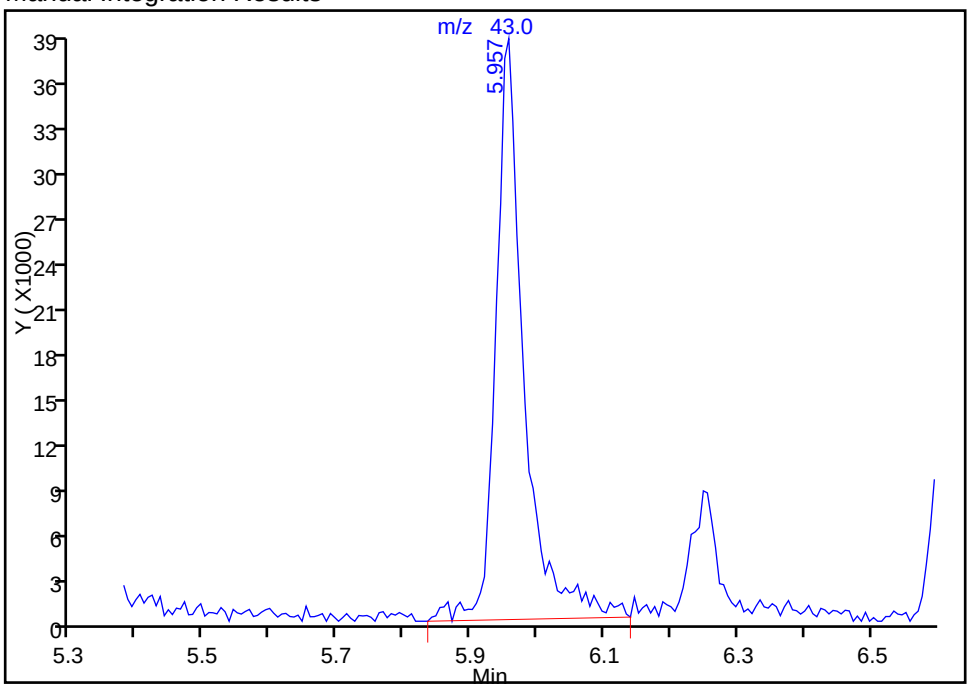
Processing Integration Results

RT: 5.96
Area: 106772
Amount: 76.312258
Amount Units: ng



Manual Integration Results

RT: 5.96
Area: 114174
Amount: 81.602627
Amount Units: ng



Reviewer: journetp, 17-Oct-2015 10:34:04
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

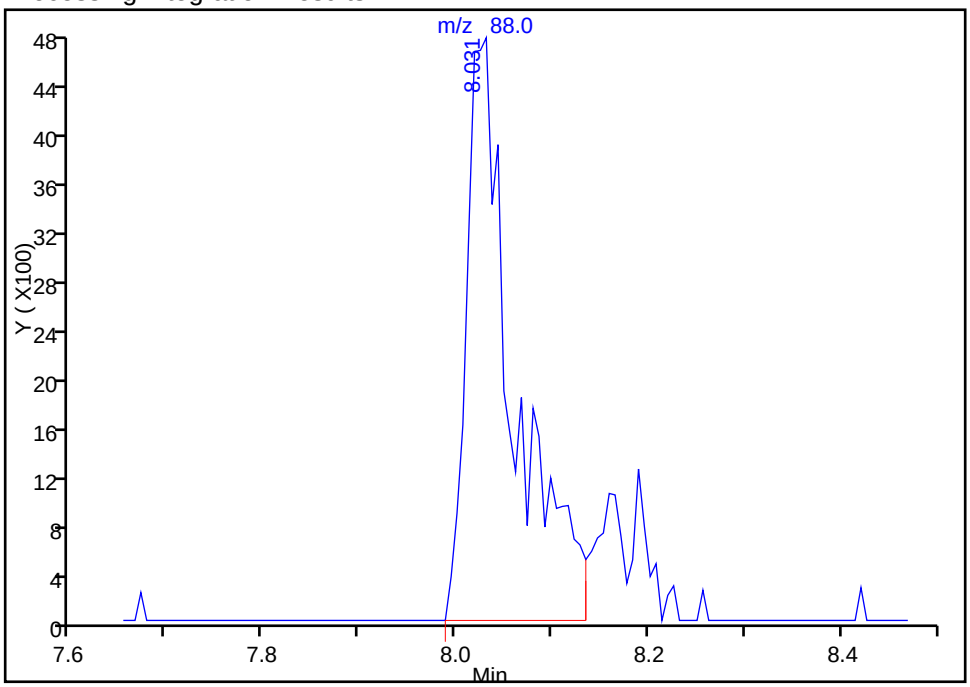
TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151017-9055.b\51017002.D
Injection Date: 17-Oct-2015 10:09:30 Instrument ID: CHHP5
Lims ID: CCVIS
Client ID:
Operator ID: 034635 ALS Bottle#: 1 Worklist Smp#: 2
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

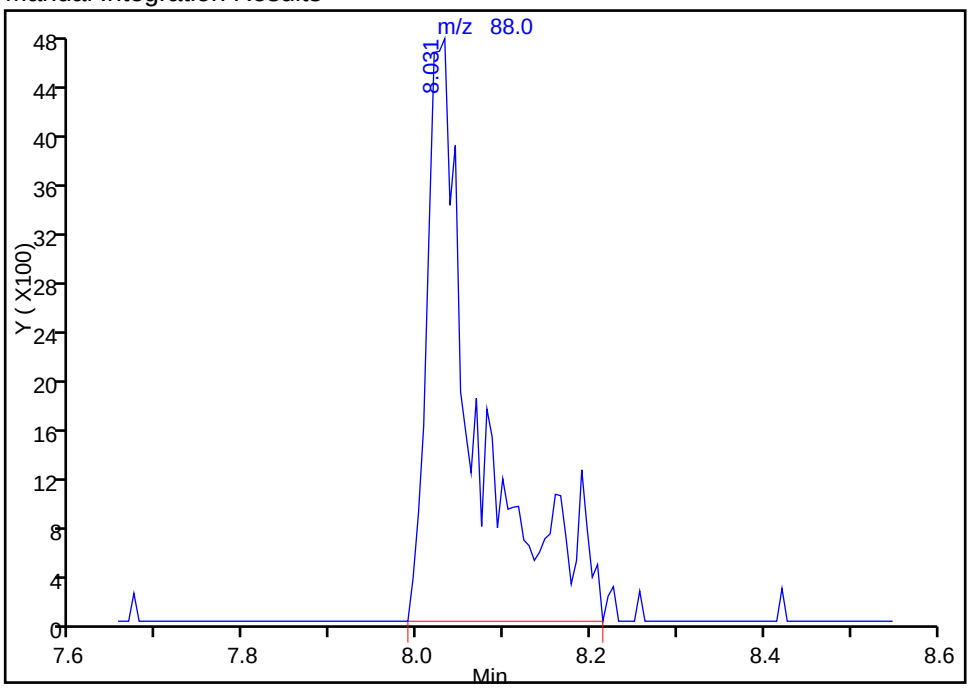
Processing Integration Results

RT: 8.03
Area: 16190
Amount: 786.3975
Amount Units: ng



Manual Integration Results

RT: 8.03
Area: 19235
Amount: 934.3024
Amount Units: ng



Reviewer: journetp, 17-Oct-2015 10:34:04
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

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:

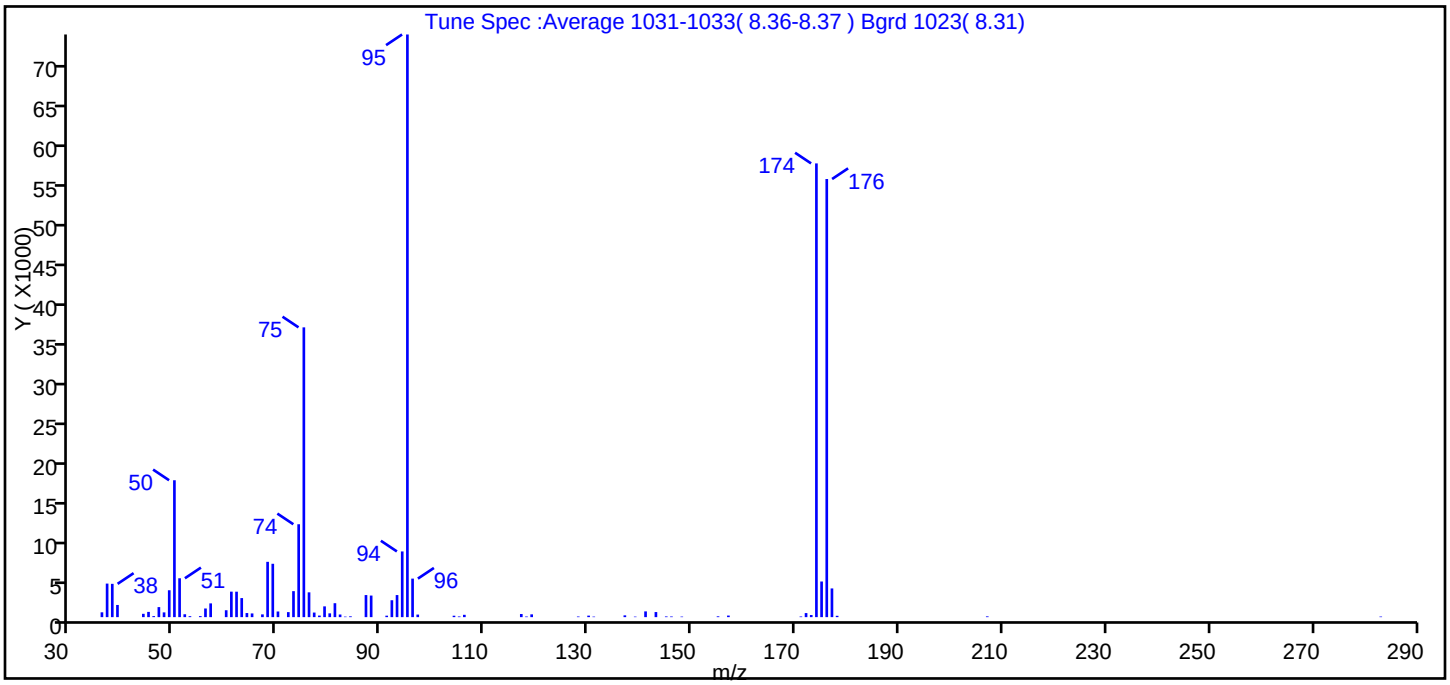
VOABFB25_00065 Amount Added: 1.00 Units: uL

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		

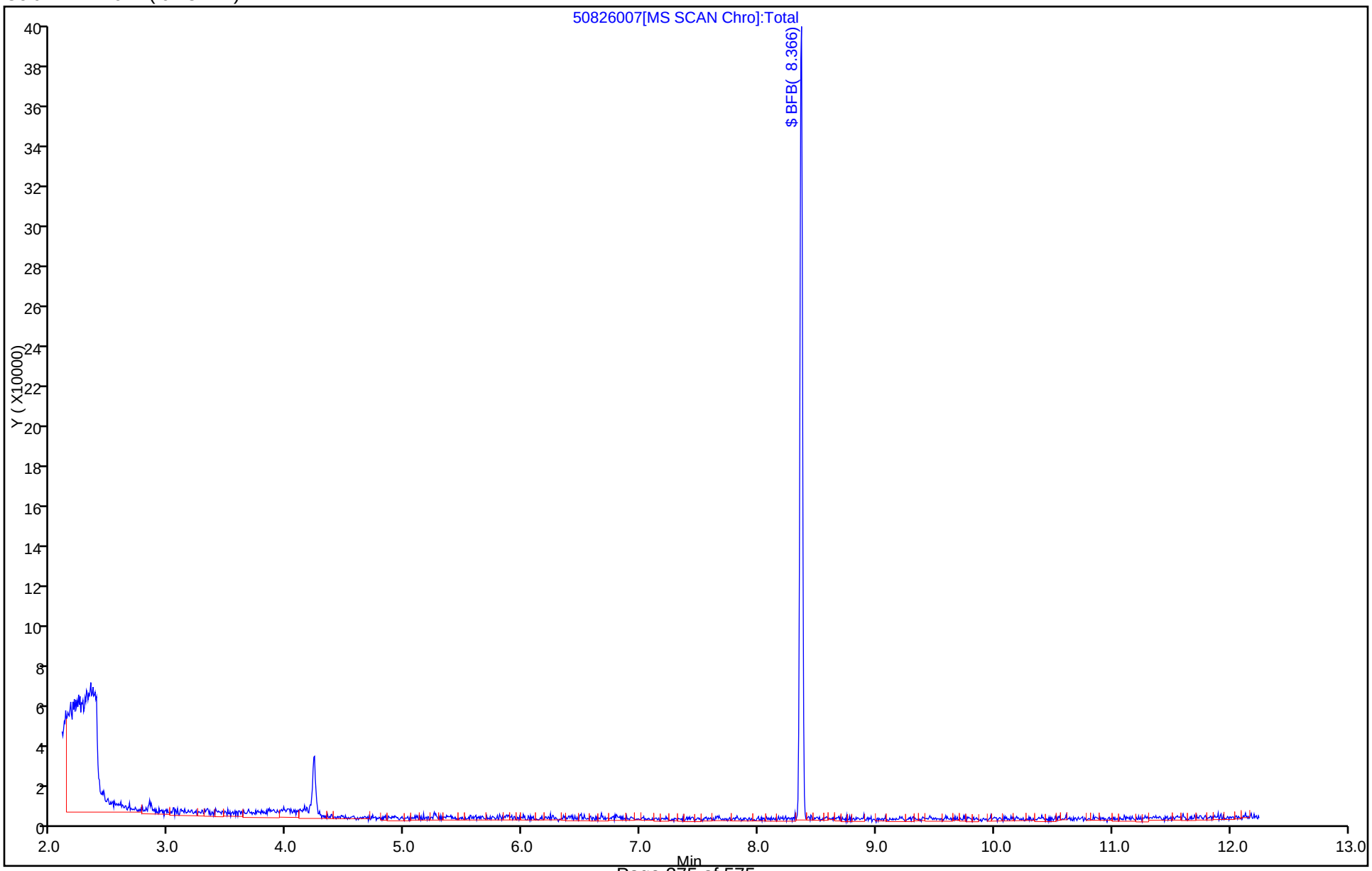
Report Date: 27-Aug-2015 11:26:54 Chrom Revision: 2.2 23-Jul-2015 08:26:08

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\20151015-9022.b\51015004.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 15-Oct-2015 12:12:30 ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Sample Info: BFB
Misc. Info.: 180-0009022-004
Operator ID: 001562 Instrument ID: CHHP5

Method: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151015-9022.b\MSVOA_LL_CHHP5.m
Limit Group: VOA 8260C ICAL
Last Update: 15-Oct-2015 13:56:12 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: XAWRK008

First Level Reviewer: fergusond Date: 15-Oct-2015 12:24:53

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
$ 10 BFB	95	8.368	8.368	0.000	0	124424	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

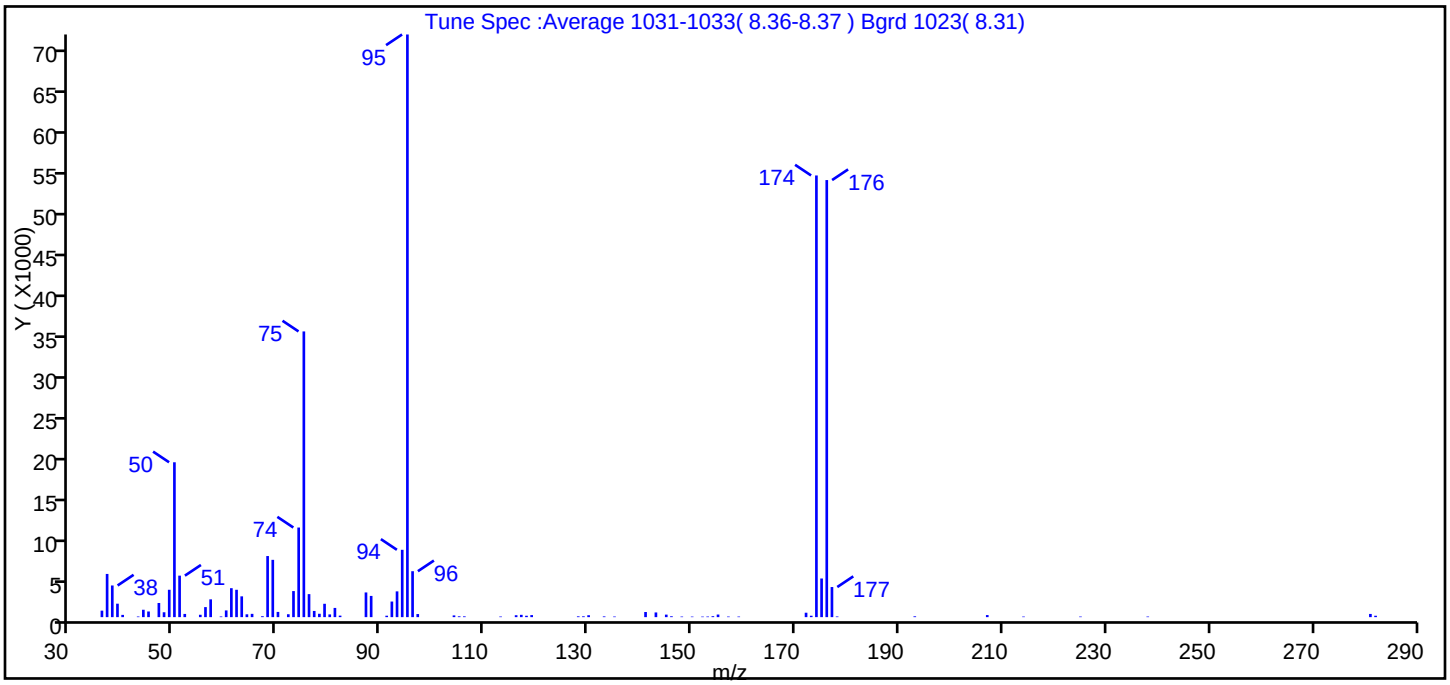
VOABFB25_00067 Amount Added: 1.00 Units: uL

MS Tune Report

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151015-9022.b\51015004.D
Injection Date: 15-Oct-2015 12:12:30 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	26.6
75	30 to 60% of m/z 95	49.0
96	5 to 9% of m/z 95	7.9
173	Less than 2% of m/z 174	0.2 (0.3)
174	50 to 120% of m/z 95	75.8
175	5 to 9% of m/z 174	6.6 (8.7)
176	Greater than 95% but less than 101% of m/z 174	75.0 (99.0)
177	5 to 9% of m/z 176	5.2 (6.9)

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151015-9022.b\51015004.D\MSVOA_LL_CHHP5.rslt\spectra
Injection Date: 15-Oct-2015 12:12:30
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: 87

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	800	64.00	350	94.00	8297	150.00	67
37.00	5323	65.00	406	95.00	71784	152.00	67
38.00	3901	67.00	113	96.00	5658	153.00	75
39.00	1658	68.00	7528	97.00	381	154.00	115
40.00	278	69.00	7060	104.00	213	155.00	321
43.00	78	70.00	644	105.00	102	157.00	73
44.00	910	72.00	358	106.00	95	159.00	72
45.00	697	73.00	3211	113.00	76	172.00	545
47.00	1744	74.00	11041	116.00	236	173.00	173
48.00	602	75.00	35200	117.00	285	174.00	54416
49.00	3372	76.00	2836	118.00	172	175.00	4761
50.00	19080	77.00	763	119.00	252	176.00	53848
51.00	5113	78.00	416	128.00	97	177.00	3710
52.00	396	79.00	1646	129.00	101	178.00	83
55.00	292	80.00	336	130.00	235	193.00	101
56.00	1237	81.00	1136	133.00	90	207.00	255
57.00	2193	82.00	187	135.00	75	214.00	71
59.00	82	87.00	3043	141.00	633	225.00	71
60.00	828	88.00	2615	143.00	579	238.00	73
61.00	3568	91.00	176	145.00	311	281.00	394
62.00	3371	92.00	1922	146.00	107	282.00	173
63.00	2563	93.00	3175	148.00	71		

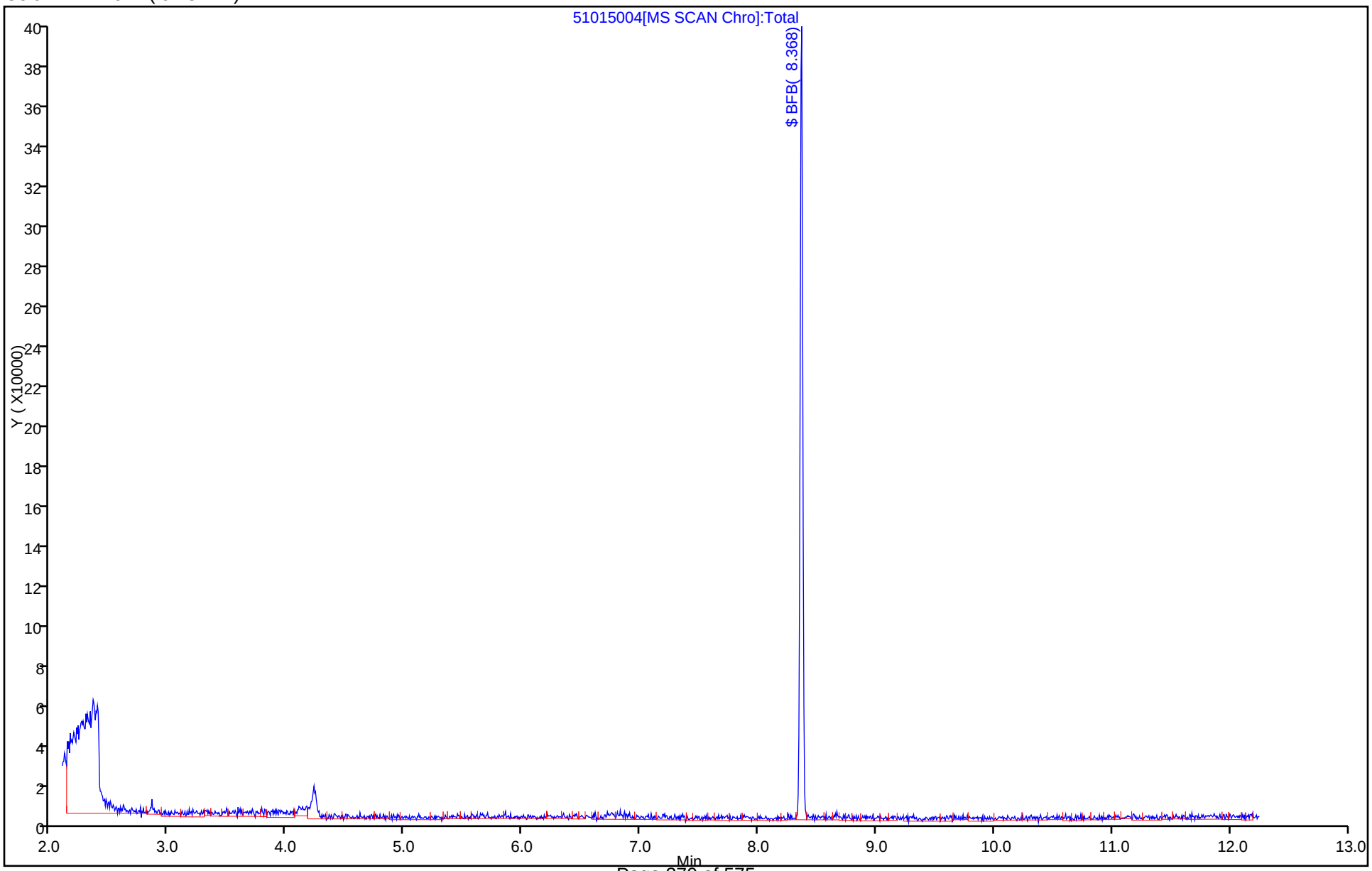
Report Date: 15-Oct-2015 13:56:13 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151015-9022.b\51015004.D

Injection Date:	15-Oct-2015 12:12:30	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\CHHP5\20151016-9043.b\51016011.D				
Lims ID:	BFB				
Client ID:					
Sample Type:	BFB				
Inject. Date:	16-Oct-2015 14:25:30	ALS Bottle#:	3	Worklist Smp#:	11
Injection Vol:	5.0 mL	Dil. Factor:	1.0000		
Sample Info:	BFB				
Misc. Info.:	180-0009043-011				
Operator ID:	001562	Instrument ID:	CHHP5		
Method:	\\ChromNA\Pittsburgh\ChromData\CHHP5\20151016-9043.b\MSVOA_LL_CHHP5.m				
Limit Group:	VOA 8260C ICAL				
Last Update:	16-Oct-2015 15:36:18	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:	XAWRK003				
First Level Reviewer: fergusond		Date:	16-Oct-2015 14:52:59		

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	80288	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

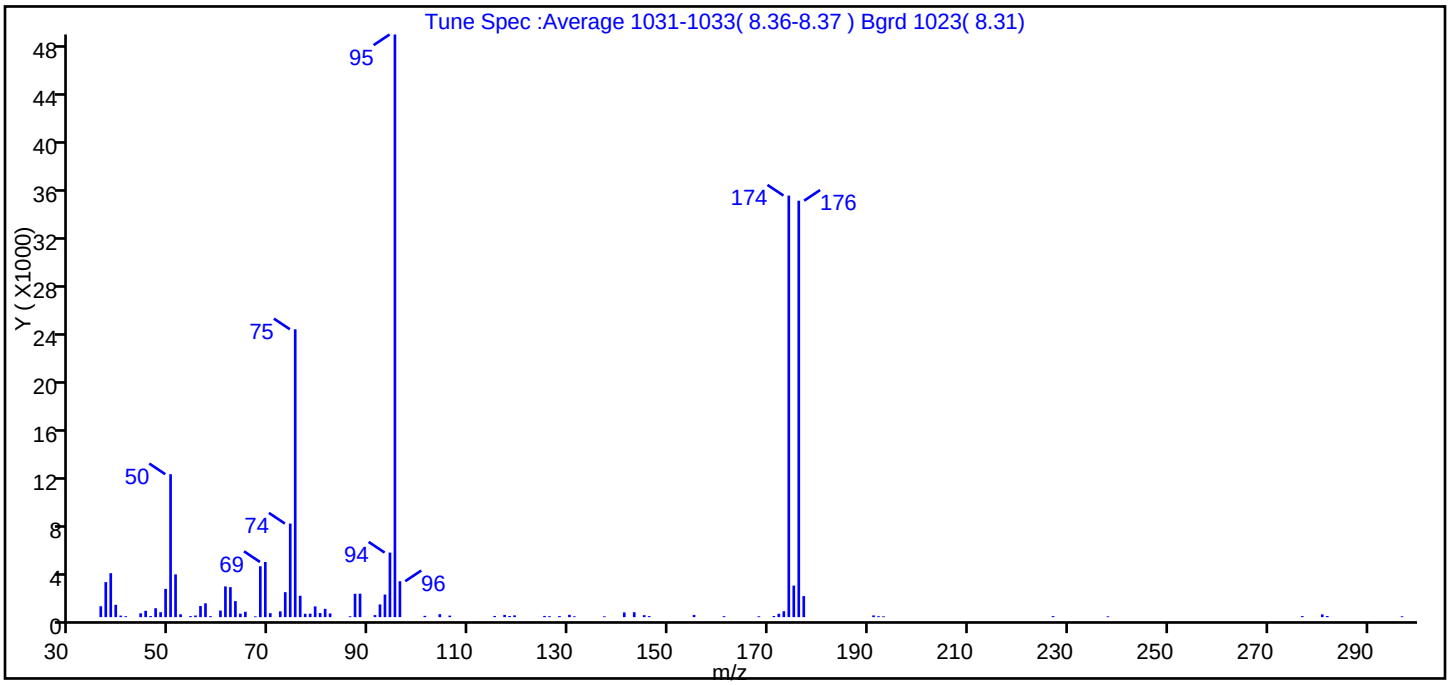
VOABFB25_00067 Amount Added: 1.00 Units: uL

MS Tune Report

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151016-9043.b\51016011.D
Injection Date: 16-Oct-2015 14:25:30 Instrument ID: CHHP5
Lims ID: BFB
Client ID:
Operator ID: 001562 ALS Bottle#: 3 Worklist Smp#: 11
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	24.5
75	30 to 60% of m/z 95	49.4
96	5 to 9% of m/z 95	6.2
173	Less than 2% of m/z 174	1.0 (1.4)
174	50 to 120% of m/z 95	72.3
175	5 to 9% of m/z 174	5.4 (7.5)
176	Greater than 95% but less than 101% of m/z 174	71.5 (98.8)
177	5 to 9% of m/z 176	3.6 (5.1)

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151016-9043.b\51016011.D\MSVOA_LL_CHHP5.rslt\spectra
Injection Date: 16-Oct-2015 14:25:30
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: 86

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	902	62.00	2484	91.00	172	146.00	86
37.00	2903	63.00	1331	92.00	1054	155.00	185
38.00	3641	64.00	288	93.00	1874	161.00	81
39.00	1021	65.00	448	94.00	5351	168.00	72
40.00	128	67.00	68	95.00	48288	171.00	95
41.00	79	68.00	4217	96.00	2978	172.00	282
44.00	318	69.00	4572	101.00	108	173.00	489
45.00	526	70.00	330	104.00	247	174.00	34936
46.00	89	72.00	480	106.00	128	175.00	2616
47.00	739	73.00	2070	115.00	99	176.00	34512
48.00	408	74.00	7755	117.00	185	177.00	1746
49.00	2343	75.00	23856	118.00	96	191.00	143
50.00	11846	76.00	1773	119.00	148	192.00	76
51.00	3542	77.00	279	125.00	101	193.00	69
52.00	237	78.00	289	126.00	81	227.00	89
54.00	85	79.00	890	128.00	87	238.00	68
55.00	135	80.00	339	130.00	194	277.00	87
56.00	918	81.00	690	131.00	68	281.00	226
57.00	1148	82.00	307	137.00	69	282.00	94
58.00	81	86.00	72	141.00	389	297.00	72
60.00	547	87.00	1935	143.00	407		
61.00	2546	88.00	1945	145.00	164		

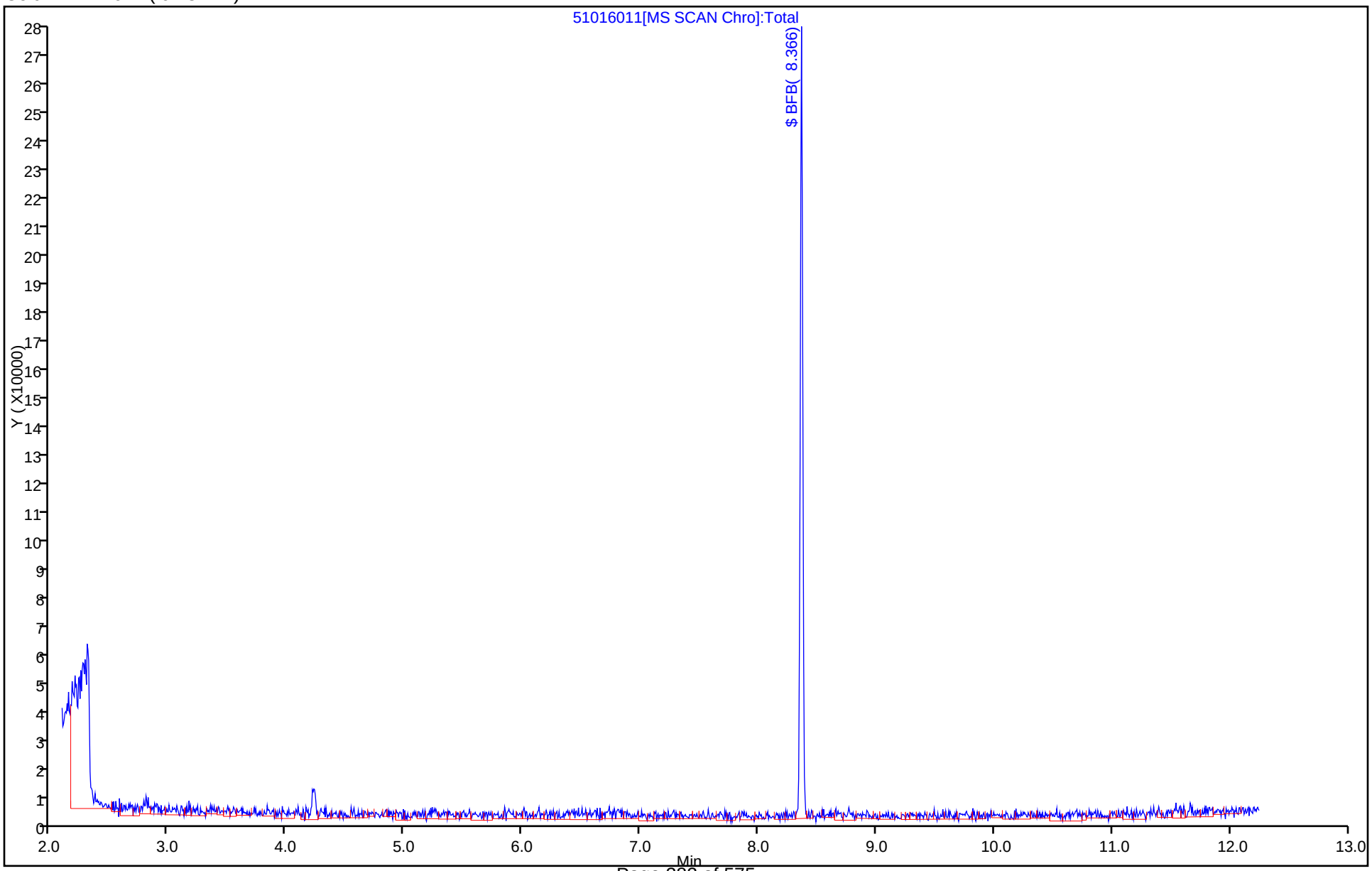
Report Date: 16-Oct-2015 15:36:18 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151016-9043.b\51016011.D

Injection Date:	16-Oct-2015 14:25:30	Instrument ID:	CHHP5	Operator ID:	001562
Lims ID:	BFB			Worklist Smp#:	11
Client ID:					
Injection Vol:	5.0 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
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\20151017-9055.b\51017001.D				
Lims ID:	BFB				
Client ID:					
Sample Type:	BFB				
Inject. Date:	17-Oct-2015 09:32:30	ALS Bottle#:	31	Worklist Smp#:	1
Injection Vol:	5.0 mL	Dil. Factor:	1.0000		
Sample Info:	BFB				
Misc. Info.:	180-0009055-001				
Operator ID:	034635	Instrument ID:	CHHP5		
Method:	\\ChromNA\Pittsburgh\ChromData\CHHP5\20151017-9055.b\MSVOA_LL_CHHP5.m				
Limit Group:	VOA 8260C ICAL				
Last Update:	17-Oct-2015 17:48:23	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:	XAWRK051				

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
$ 10 BFB	95	8.368	8.368	0.000	0	559875	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

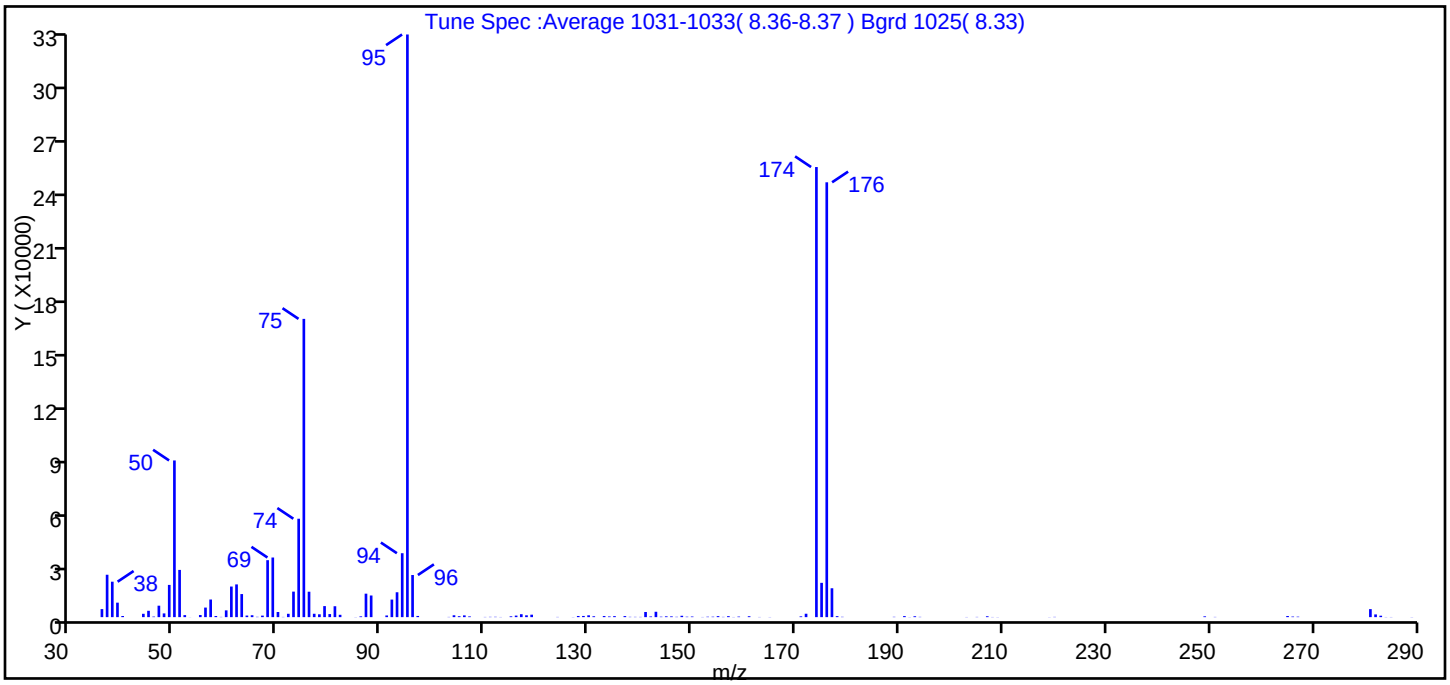
VOABFB25_00067 Amount Added: 1.00 Units: uL

MS Tune Report

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151017-9055.b\51017001.D
Injection Date: 17-Oct-2015 09:32:30 Instrument ID: CHHP5
Lims ID: BFB
Client ID:
Operator ID: 034635 ALS Bottle#: 31 Worklist Smp#: 1
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	26.9
75	30 to 60% of m/z 95	51.2
96	5 to 9% of m/z 95	7.2
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	77.2
175	5 to 9% of m/z 174	5.9 (7.6)
176	Greater than 95% but less than 101% of m/z 174	74.6 (96.6)
177	5 to 9% of m/z 176	5.0 (6.6)

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151017-9055.b\51017001.D\MSVOA_LL_CHHP5.rslt\spectra
Injection Date: 17-Oct-2015 09:32:30
Spectrum: Tune Spec :Average 1031-1033(8.36-8.37) Bgrd 1025(8.33)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 133

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	4486	74.00	54928	124.00	119	171.00	433
37.00	23664	75.00	166464	127.00	75	172.00	1901
38.00	19784	76.00	14192	128.00	648	174.00	251200
39.00	8081	77.00	1884	129.00	659	175.00	19144
40.00	639	78.00	1589	130.00	1019	176.00	242688
44.00	1874	79.00	6165	131.00	489	177.00	16120
45.00	3542	80.00	1710	133.00	612	178.00	553
46.00	306	81.00	6086	134.00	381	179.00	182
47.00	6393	82.00	1308	135.00	561	189.00	180
48.00	2085	85.00	71	137.00	591	191.00	581
49.00	17992	86.00	433	138.00	172	192.00	71
50.00	87448	87.00	13102	139.00	157	193.00	492
51.00	26360	88.00	12080	140.00	133	194.00	153
52.00	1131	91.00	932	141.00	2876	203.00	89
53.00	46	92.00	9808	142.00	383	205.00	130
55.00	1172	93.00	13888	143.00	2999	207.00	492
56.00	5339	94.00	35680	144.00	260	208.00	95
57.00	9841	95.00	325184	145.00	453	209.00	72
58.00	626	96.00	23512	146.00	424	219.00	68
59.00	132	97.00	666	147.00	185	220.00	140
60.00	3785	103.00	124	148.00	767	249.00	448
61.00	17080	104.00	1042	149.00	238	251.00	126
62.00	18272	105.00	523	150.00	338	265.00	629
63.00	12881	106.00	979	152.00	96	266.00	328
64.00	887	107.00	412	153.00	234	267.00	272
65.00	1066	110.00	113	154.00	247	281.00	4477
66.00	181	111.00	164	155.00	568	282.00	1523
67.00	852	112.00	187	156.00	144	283.00	800
68.00	31792	113.00	92	157.00	542	284.00	86
69.00	33280	115.00	460	158.00	88	285.00	88
70.00	2868	116.00	863	159.00	305	289.00	77
71.00	120	117.00	1638	161.00	503		
72.00	1876	118.00	1026	163.00	99		

Report Date: 17-Oct-2015 17:48:25 Chrom Revision: 2.2 08-Sep-2015 13:41:46
Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151017-9055.b\51017001.D\MSVOA_LL_CHHP5.rslt\spectra
Injection Date: 17-Oct-2015 09:32:30
Spectrum: Tune Spec :Average 1031-1033(8.36-8.37) Bgrd 1025(8.33)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 133

m/z	Y	m/z	Y	m/z	Y	m/z	Y
73.00	14249	119.00	1376	165.00	83		

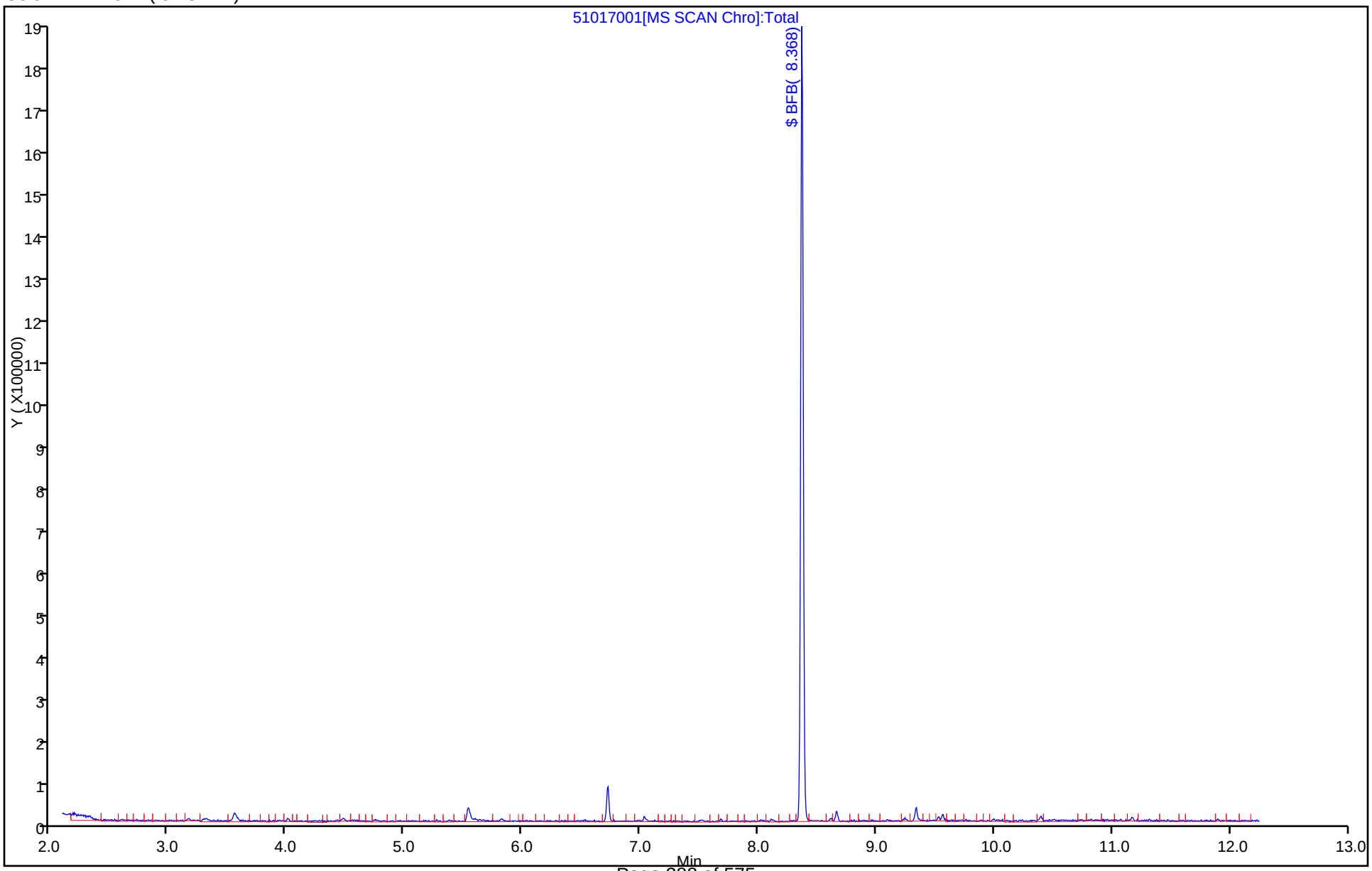
Report Date: 17-Oct-2015 17:48:25 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151017-9055.b\51017001.D

Injection Date:	17-Oct-2015 09:32:30	Instrument ID:	CHHP5	Operator ID:	034635
Lims ID:	BFB			Worklist Smp#:	1
Client ID:					
Injection Vol:	5.0 mL	Dil. Factor:	1.0000	ALS Bottle#:	31
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.: 180-48435-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 180-157127/6

Matrix: Water | Lab File ID: 51015006.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 10/15/2015 14:08

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.: 157127 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	ND		1.0	0.28
75-01-4	Vinyl chloride	ND		1.0	0.23
74-83-9	Bromomethane	ND		1.0	0.31
75-00-3	Chloroethane	ND		1.0	0.21
75-35-4	1,1-Dichloroethene	ND		1.0	0.30
67-64-1	Acetone	ND		5.0	2.5
75-15-0	Carbon disulfide	ND		1.0	0.21
75-09-2	Methylene Chloride	ND		1.0	0.13
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.17
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.18
75-34-3	1,1-Dichloroethane	ND		1.0	0.12
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.24
74-97-5	Bromochloromethane	ND		1.0	0.18
78-93-3	2-Butanone (MEK)	ND		5.0	0.55
67-66-3	Chloroform	ND		1.0	0.17
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.29
56-23-5	Carbon tetrachloride	ND		1.0	0.14
71-43-2	Benzene	ND		1.0	0.11
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
79-01-6	Trichloroethene	ND		1.0	0.14
78-87-5	1,2-Dichloropropane	ND		1.0	0.095
75-27-4	Bromodichloromethane	ND		1.0	0.13
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.19
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	0.53
108-88-3	Toluene	ND		1.0	0.15
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.15
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.20
127-18-4	Tetrachloroethene	ND		1.0	0.15
591-78-6	2-Hexanone	ND		5.0	0.16
124-48-1	Dibromochloromethane	ND		1.0	0.14
106-93-4	1,2-Dibromoethane (EDB)	ND		1.0	0.18
108-90-7	Chlorobenzene	ND		1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	0.28
100-41-4	Ethylbenzene	ND		1.0	0.23
1330-20-7	Xylenes, Total	ND		3.0	0.49
100-42-5	Styrene	ND		1.0	0.097

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-48435-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 180-157127/6

Matrix: Water | Lab File ID: 51015006.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 10/15/2015 14:08

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.: 157127 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-25-2	Bromoform	ND		1.0	0.19
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.20
107-13-1	Acrylonitrile	ND		20	0.55
123-91-1	1,4-Dioxane	ND		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)	103		71-118
460-00-4	4-Bromofluorobenzene (Surr)	95		70-118
1868-53-7	Dibromofluoromethane (Surr)	93		70-128

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151015-9022.b\51015006.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 15-Oct-2015 14:08:30 ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: MB
Misc. Info.: 180-0009022-006
Operator ID: 001562 Instrument ID: CHHP5

Method: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151015-9022.b\MSVOA_LL_CHHP5.m
Limit Group: VOA 8260C ICAL
Last Update: 15-Oct-2015 15:50:52 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: XAWRK008

First Level Reviewer: fergusond Date: 15-Oct-2015 15:50:52

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
*	1 TBA-d9 (IS)	65	4.271	4.273	-0.002	0	166634	1000.0	1000.0	
*	2 Fluorobenzene (IS)	96	7.294	7.290	0.004	97	345393	50.0	50.0	
*	3 Chlorobenzene-d5	119	10.385	10.386	-0.001	90	77841	50.0	50.0	
*	4 1,4-Dichlorobenzene-d4	152	12.733	12.729	0.004	98	106606	50.0	50.0	
$	5 Dibromofluoromethane (Surr	113	6.564	6.554	0.010	93	79289	50.0	46.7	
$	6 1,2-Dichloroethane-d4 (Sur	65	6.936	6.931	0.005	0	117965	50.0	50.6	
$	7 Toluene-d8 (Surr)	98	8.937	8.939	-0.002	95	310614	50.0	51.7	
$	8 4-Bromofluorobenzene (Surr	95	11.571	11.573	-0.002	86	107478	50.0	47.4	
	11 Dichlorodifluoromethane	85		1.596					ND	
	12 Chloromethane	50		1.772					ND	
	13 Vinyl chloride	62		1.912					ND	
	14 Butadiene	39		1.943					ND	
	15 Bromomethane	94		2.241					ND	
	16 Chloroethane	64		2.399					ND	
	17 Dichlorofluoromethane	67		2.667					ND	
	18 Trichlorofluoromethane	101		2.703					ND	
	19 Ethanol	45		2.954					ND	
	20 Ethyl ether	59		3.038					ND	
	21 Acrolein	56		3.220					ND	
	22 1,1-Dichloroethene	96		3.330					ND	
	23 1,1,2-Trichloro-1,2,2-trif	101		3.415					ND	
	24 Acetone	43		3.439					ND	
	25 Iodomethane	142		3.537					ND	
	26 Carbon disulfide	76		3.640					ND	
	27 Isopropyl alcohol	45		3.727					ND	
	29 Acetonitrile	40		3.873					ND	
	28 3-Chloro-1-propene	76		3.914					ND	
	30 Methyl acetate	43		3.938					ND	
	31 Methylene Chloride	84		4.139					ND	
	32 2-Methyl-2-propanol	59		4.394					ND	
	33 Acrylonitrile	53		4.522					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		4.559					ND	
35 Methyl tert-butyl ether	73		4.577					ND	
36 Hexane	57		4.984					ND	
37 1,1-Dichloroethane	63		5.197					ND	
38 Vinyl acetate	43		5.246					ND	
39 2-Chloro-1,3-butadiene	53		5.302					ND	
41 Isopropyl ether	45		5.302					ND	
40 Isopropyl ether TIC	45		5.409					ND	
42 Tert-butyl ethyl ether	59		5.777					ND	
44 2,2-Dichloropropane	77		5.946					ND	
45 cis-1,2-Dichloroethene	96		5.946					ND	
46 2-Butanone (MEK)	43		5.952					ND	
43 Tert-butyl ethyl ether (TI	59		5.961					ND	
47 Propionitrile	54		6.032					ND	
48 Ethyl acetate	43		6.032					ND	
50 Methacrylonitrile	41		6.215					ND	
49 Chlorobromomethane	128		6.231					ND	
51 Tetrahydrofuran	42		6.250					ND	
52 Chloroform	83		6.377					ND	
53 1,1,1-Trichloroethane	97		6.536					ND	
54 Cyclohexane	56		6.609					ND	
56 Carbon tetrachloride	117		6.718					ND	
55 1,1-Dichloropropene	75		6.724					ND	
57 Isobutyl alcohol	41		6.925					ND	
58 Benzene	78		6.943					ND	
59 1,2-Dichloroethane	62		7.016					ND	
61 Tert-amyl methyl ether	73		7.128					ND	
60 Tert-amyl methyl ether (TI	73		7.262					ND	
62 n-Heptane	43		7.302					ND	
63 n-Butanol	56		7.639					ND	
64 Trichloroethene	130		7.673					ND	
65 Ethyl acrylate	55		7.803					ND	
66 Methylcyclohexane	83		7.917					ND	
67 1,2-Dichloropropane	63		7.947					ND	
70 1,4-Dioxane	88		8.026					ND	
68 Dibromomethane	93		8.032					ND	
69 Methyl methacrylate	69		8.034					ND	
71 Dichlorobromomethane	83		8.233					ND	
72 2-Nitropropane	41		8.454					ND	
73 2-Chloroethyl vinyl ether	63		8.531					ND	
74 cis-1,3-Dichloropropene	75		8.671					ND	
75 4-Methyl-2-pentanone (MIBK	43		8.823					ND	
76 Toluene	91		9.006					ND	
77 trans-1,3-Dichloropropene	75		9.255					ND	
78 Ethyl methacrylate	69		9.310					ND	
79 1,1,2-Trichloroethane	97		9.444					ND	
80 Tetrachloroethene	164		9.517					ND	
81 1,3-Dichloropropane	76		9.602					ND	
82 2-Hexanone	43		9.663					ND	
83 n-Butyl acetate	43		9.780					ND	
84 Chlorodibromomethane	129		9.815					ND	
85 Ethylene Dibromide	107		9.930					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
86 3-Chlorobenzotrifluoride	180		10.393					ND	
87 Chlorobenzene	112		10.417					ND	
88 4-Chlorobenzotrifluoride	180		10.478					ND	
89 1,1,1,2-Tetrachloroethane	131		10.514					ND	
90 Ethylbenzene	106		10.520					ND	
91 m-Xylene & p-Xylene	106		10.654					ND	
92 o-Xylene	106		11.031					ND	
93 Styrene	104		11.050					ND	
94 Bromoform	173		11.232					ND	
95 Cyclohexanol	57		11.250					ND	
96 2-Chlorobenzotrifluoride	180		11.299					ND	
97 Isopropylbenzene	105		11.396					ND	
98 Cyclohexanone	55		11.483					ND	
99 1,1,2,2-Tetrachloroethane	83		11.707					ND	
100 Bromobenzene	156		11.707					ND	
102 trans-1,4-Dichloro-2-buten	53		11.743					ND	
101 1,2,3-Trichloropropane	110		11.767					ND	
103 N-Propylbenzene	120		11.816					ND	
104 2-Chlorotoluene	126		11.901					ND	
105 3-Chlorotoluene	126		11.968					ND	
106 1,3,5-Trimethylbenzene	105		11.999					ND	
107 4-Chlorotoluene	126		12.029					ND	
108 tert-Butylbenzene	119		12.309					ND	
109 Pentachloroethane	167		12.341					ND	
110 1,2,4-Trimethylbenzene	105		12.370					ND	
111 1,2-dichloro-4-(trifluorom	214		12.412					ND	
112 sec-Butylbenzene	105		12.534					ND	
113 1,3-Dichlorobenzene	146		12.650					ND	
114 4-Isopropyltoluene	119		12.692					ND	
115 1,4-Dichlorobenzene	146		12.753					ND	
117 1,2,3-Trimethylbenzene	105		12.779					ND	
116 2,4-Dichloro-1-(triflourom	214		12.783					ND	
118 2,5-Dichlorobenzotrifluori	214		12.820					ND	
119 Benzyl chloride	91		12.870					ND	
120 n-Butylbenzene	91		13.100					ND	
121 1,2-Dichlorobenzene	146		13.112					ND	
122 1,2-Dibromo-3-Chloropropan	75		13.903					ND	
123 2,4- & 2,5- & 2,6- Dichlor	125		14.043					ND	
124 1,3,5-Trichlorobenzene	180		14.091					ND	
125 2,3- & 3,4- Dichlorotoluen	125		14.469					ND	
126 1,2,4-Trichlorobenzene	180		14.724					ND	
127 Hexachlorobutadiene	225		14.876					ND	
128 Naphthalene	128		14.992					ND	
129 1,2,3-Trichlorobenzene	180		15.217					ND	
131 2,4,5-Trichlorotoluene	159		15.995					ND	
130 2,3,6-Trichlorotoluene	159		16.099					ND	
132 2-Methylnaphthalene	142		16.137					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_00043	Amount Added:	2.00	Units: uL	Run Reagent
VOA8260SURR_00043	Amount Added:	2.00	Units: uL	Run Reagent

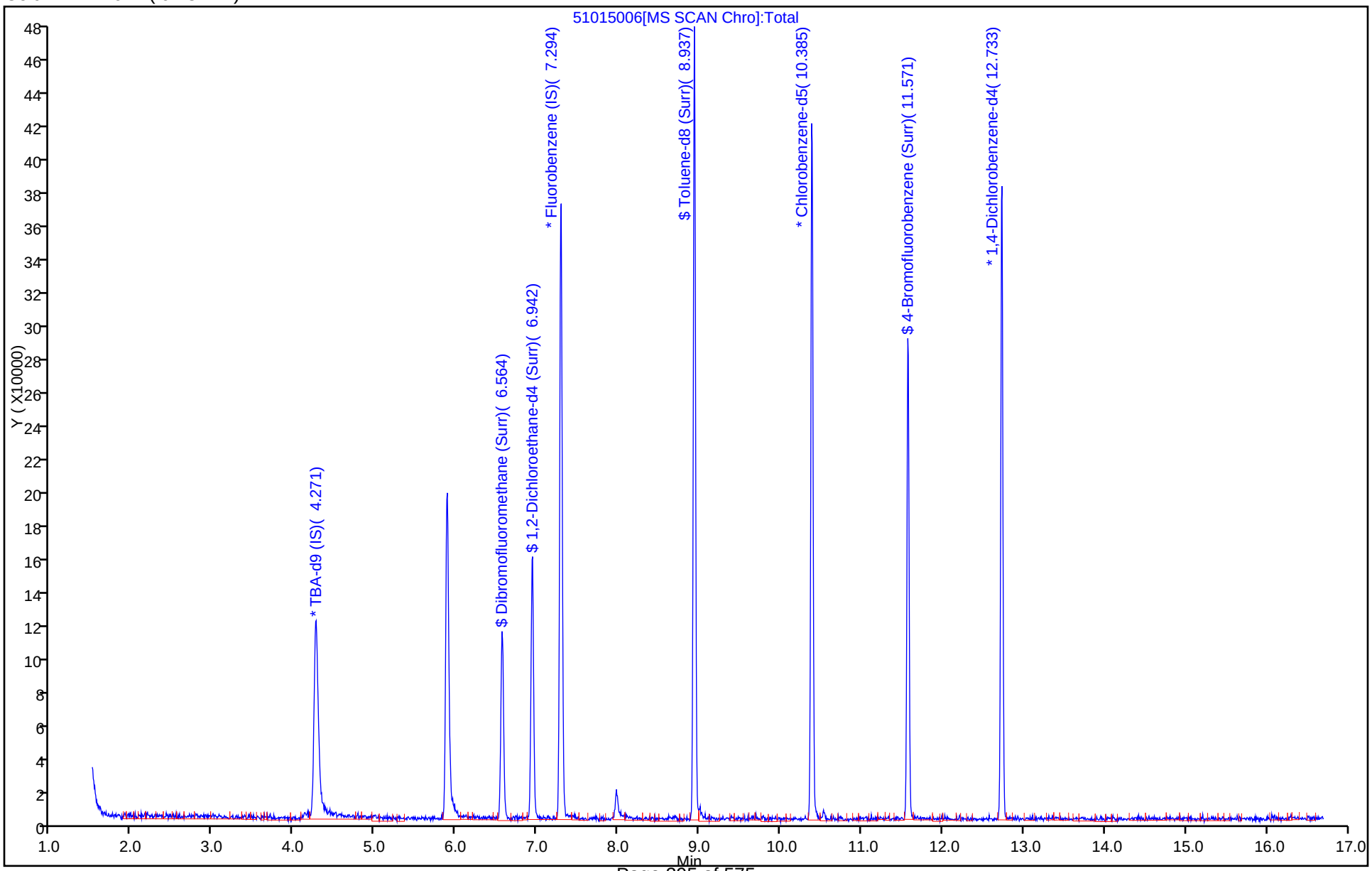
Report Date: 15-Oct-2015 15:50:52 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151015-9022.b\51015006.D

Injection Date:	15-Oct-2015 14:08:30	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.: 180-48435-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 180-157249/12

Matrix: Water | Lab File ID: 51016012.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 10/16/2015 16:19

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.: 157249 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	ND		1.0	0.28
75-01-4	Vinyl chloride	ND		1.0	0.23
74-83-9	Bromomethane	ND		1.0	0.31
75-00-3	Chloroethane	ND		1.0	0.21
75-35-4	1,1-Dichloroethene	ND		1.0	0.30
67-64-1	Acetone	ND		5.0	2.5
75-15-0	Carbon disulfide	ND		1.0	0.21
75-09-2	Methylene Chloride	ND		1.0	0.13
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.17
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.18
75-34-3	1,1-Dichloroethane	ND		1.0	0.12
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.24
74-97-5	Bromochloromethane	ND		1.0	0.18
78-93-3	2-Butanone (MEK)	ND		5.0	0.55
67-66-3	Chloroform	ND		1.0	0.17
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.29
56-23-5	Carbon tetrachloride	ND		1.0	0.14
71-43-2	Benzene	ND		1.0	0.11
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
79-01-6	Trichloroethene	ND		1.0	0.14
78-87-5	1,2-Dichloropropane	ND		1.0	0.095
75-27-4	Bromodichloromethane	ND		1.0	0.13
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.19
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	0.53
108-88-3	Toluene	ND		1.0	0.15
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.15
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.20
127-18-4	Tetrachloroethene	ND		1.0	0.15
591-78-6	2-Hexanone	ND		5.0	0.16
124-48-1	Dibromochloromethane	ND		1.0	0.14
106-93-4	1,2-Dibromoethane (EDB)	ND		1.0	0.18
108-90-7	Chlorobenzene	ND		1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	0.28
100-41-4	Ethylbenzene	ND		1.0	0.23
1330-20-7	Xylenes, Total	ND		3.0	0.49
100-42-5	Styrene	ND		1.0	0.097

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-48435-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 180-157249/12

Matrix: Water | Lab File ID: 51016012.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 10/16/2015 16:19

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.: 157249 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-25-2	Bromoform	ND		1.0	0.19
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.20
107-13-1	Acrylonitrile	ND		20	0.55
123-91-1	1,4-Dioxane	ND		200	34

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		64-135
2037-26-5	Toluene-d8 (Surr)	97		71-118
460-00-4	4-Bromofluorobenzene (Surr)	88		70-118
1868-53-7	Dibromofluoromethane (Surr)	92		70-128

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151016-9043.b\51016012.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 16-Oct-2015 16:19:30 ALS Bottle#: 7 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: MB
Misc. Info.: 180-0009043-012
Operator ID: 001562 Instrument ID: CHHP5

Method: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151016-9043.b\MSVOA_LL_CHHP5.m
Limit Group: VOA 8260C ICAL
Last Update: 16-Oct-2015 16:43:34 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: XAWRK003

First Level Reviewer: fergusond Date: 16-Oct-2015 16:43:34

	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	4.271	-0.003	0	95470	1000.0	1000.0	
*	2 Fluorobenzene (IS)	96	7.291	7.289	0.002	97	400795	50.0	50.0	
*	3 Chlorobenzene-d5	119	10.388	10.391	-0.003	90	94373	50.0	50.0	
*	4 1,4-Dichlorobenzene-d4	152	12.730	12.733	-0.003	97	120395	50.0	50.0	
$	5 Dibromofluoromethane (Surr	113	6.561	6.560	0.001	93	90572	50.0	46.0	
$	6 1,2-Dichloroethane-d4 (Sur	65	6.938	6.931	0.007	0	135693	50.0	50.2	
$	7 Toluene-d8 (Surr)	98	8.940	8.939	0.001	95	354917	50.0	48.7	
$	8 4-Bromofluorobenzene (Surr	95	11.574	11.573	0.001	87	120243	50.0	43.8	
	11 Dichlorodifluoromethane	85		1.614					ND	
	12 Chloromethane	50		1.760					ND	
	13 Vinyl chloride	62		1.900					ND	
	14 Butadiene	39		1.937					ND	
	15 Bromomethane	94		2.247					ND	
	16 Chloroethane	64		2.387					ND	
	17 Dichlorofluoromethane	67		2.667					ND	
	18 Trichlorofluoromethane	101		2.709					ND	
	19 Ethanol	45		2.939					ND	
	20 Ethyl ether	59		3.050					ND	
	21 Acrolein	56		3.233					ND	
	22 1,1-Dichloroethene	96		3.354					ND	
	23 1,1,2-Trichloro-1,2,2-trif	101		3.415					ND	
	24 Acetone	43		3.433					ND	
	25 Iodomethane	142		3.543					ND	
	26 Carbon disulfide	76		3.646					ND	
	27 Isopropyl alcohol	45		3.712					ND	
	29 Acetonitrile	40		3.882					ND	
	28 3-Chloro-1-propene	76		3.914					ND	
	30 Methyl acetate	43		3.938					ND	
	31 Methylene Chloride	84		4.139					ND	
	32 2-Methyl-2-propanol	59		4.395					ND	
	33 Acrylonitrile	53		4.522					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		4.565					ND	
35 Methyl tert-butyl ether	73		4.583					ND	
36 Hexane	57		4.991					ND	
37 1,1-Dichloroethane	63		5.198					ND	
38 Vinyl acetate	43		5.246					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		5.774					ND	
44 2,2-Dichloropropane	77		5.946					ND	
45 cis-1,2-Dichloroethene	96		5.946					ND	
46 2-Butanone (MEK)	43		5.958					ND	
43 Tert-butyl ethyl ether (TI	59		5.961					ND	
47 Propionitrile	54		6.030					ND	
48 Ethyl acetate	43		6.042					ND	
50 Methacrylonitrile	41		6.212					ND	
49 Chlorobromomethane	128		6.232					ND	
51 Tetrahydrofuran	42		6.250					ND	
52 Chloroform	83		6.384					ND	
53 1,1,1-Trichloroethane	97		6.542					ND	
54 Cyclohexane	56		6.615					ND	
56 Carbon tetrachloride	117		6.712					ND	
55 1,1-Dichloropropene	75		6.724					ND	
57 Isobutyl alcohol	41		6.919					ND	
58 Benzene	78		6.943					ND	
59 1,2-Dichloroethane	62		7.016					ND	
61 Tert-amyl methyl ether	73		7.125					ND	
60 Tert-amyl methyl ether (TI	73		7.262					ND	
62 n-Heptane	43	7.322	7.309	0.014	1	78		0.0211	
63 n-Butanol	56		7.629					ND	
64 Trichloroethene	130		7.674					ND	
65 Ethyl acrylate	55		7.800					ND	
66 Methylcyclohexane	83		7.917					ND	
67 1,2-Dichloropropane	63		7.947					ND	
69 Methyl methacrylate	69		8.031					ND	
70 1,4-Dioxane	88		8.032					ND	
68 Dibromomethane	93		8.039					ND	
71 Dichlorobromomethane	83		8.233					ND	
72 2-Nitropropane	41		8.451					ND	
73 2-Chloroethyl vinyl ether	63		8.530					ND	
74 cis-1,3-Dichloropropene	75		8.677					ND	
75 4-Methyl-2-pentanone (MIBK	43		8.823					ND	
76 Toluene	91		9.006					ND	
77 trans-1,3-Dichloropropene	75		9.249					ND	
78 Ethyl methacrylate	69		9.310					ND	
79 1,1,2-Trichloroethane	97		9.444					ND	
80 Tetrachloroethene	164		9.517					ND	
81 1,3-Dichloropropane	76		9.602					ND	
82 2-Hexanone	43		9.657					ND	
83 n-Butyl acetate	43		9.783					ND	
84 Chlorodibromomethane	129		9.815					ND	
85 Ethylene Dibromide	107		9.930					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
86 3-Chlorobenzotrifluoride	180		10.393					ND	
87 Chlorobenzene	112		10.417					ND	
88 4-Chlorobenzotrifluoride	180		10.478					ND	
89 1,1,1,2-Tetrachloroethane	131		10.508					ND	
90 Ethylbenzene	106		10.514					ND	
91 m-Xylene & p-Xylene	106		10.648					ND	
92 o-Xylene	106		11.032					ND	
93 Styrene	104		11.050					ND	
94 Bromoform	173		11.232					ND	
95 Cyclohexanol	57		11.250					ND	
96 2-Chlorobenzotrifluoride	180		11.299					ND	
97 Isopropylbenzene	105		11.397					ND	
98 Cyclohexanone	55		11.486					ND	
99 1,1,2,2-Tetrachloroethane	83		11.707					ND	
100 Bromobenzene	156		11.707					ND	
102 trans-1,4-Dichloro-2-buten	53		11.743					ND	
101 1,2,3-Trichloropropane	110		11.768					ND	
103 N-Propylbenzene	120		11.816					ND	
104 2-Chlorotoluene	126		11.902					ND	
105 3-Chlorotoluene	126		11.968					ND	
106 1,3,5-Trimethylbenzene	105		11.999					ND	
107 4-Chlorotoluene	126		12.023					ND	
108 tert-Butylbenzene	119		12.315					ND	
109 Pentachloroethane	167		12.338					ND	
110 1,2,4-Trimethylbenzene	105		12.370					ND	
111 1,2-dichloro-4-(trifluorom	214		12.413					ND	
112 sec-Butylbenzene	105		12.534					ND	
113 1,3-Dichlorobenzene	146		12.650					ND	
114 4-Isopropyltoluene	119		12.692					ND	
115 1,4-Dichlorobenzene	146		12.753					ND	
117 1,2,3-Trimethylbenzene	105		12.782					ND	
116 2,4-Dichloro-1-(triflourom	214		12.784					ND	
118 2,5-Dichlorobenzotrifluori	214		12.820					ND	
119 Benzyl chloride	91		12.867					ND	
120 n-Butylbenzene	91		13.100					ND	
121 1,2-Dichlorobenzene	146		13.112					ND	
122 1,2-Dibromo-3-Chloropropan	75		13.909					ND	
123 2,4- & 2,5- & 2,6- Dichlor	125		14.049					ND	
124 1,3,5-Trichlorobenzene	180		14.096					ND	
125 2,3- & 3,4- Dichlorotoluen	125		14.463					ND	
126 1,2,4-Trichlorobenzene	180		14.730					ND	
127 Hexachlorobutadiene	225		14.876					ND	
128 Naphthalene	128		14.992					ND	
129 1,2,3-Trichlorobenzene	180		15.223					ND	
131 2,4,5-Trichlorotoluene	159		15.996					ND	
130 2,3,6-Trichlorotoluene	159		16.093					ND	
132 2-Methylnaphthalene	142		16.140					ND	
152 Formaldehyde TIC	1		0.000					ND	
148 2,3-Dichlorotoluene	1		0.000					ND	
151 Isooctane	57		0.000					ND	
146 2,5-Dichlorotoluene	1		0.000					ND	
150 2,6-Dichlorotoluene	1		0.000					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
149 3,4-Dichlorotoluene	1		0.000					ND	
147 2,4-Dichlorotoluene	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	6.288	6.253	0.035	1	1283			0
T 153 1,2 Epoxybutane TIC	42		6.253					ND	

Reagents:

VOA8260INT_00043	Amount Added:	2.00	Units: uL	Run Reagent
VOA8260SURR_00043	Amount Added:	2.00	Units: uL	Run Reagent

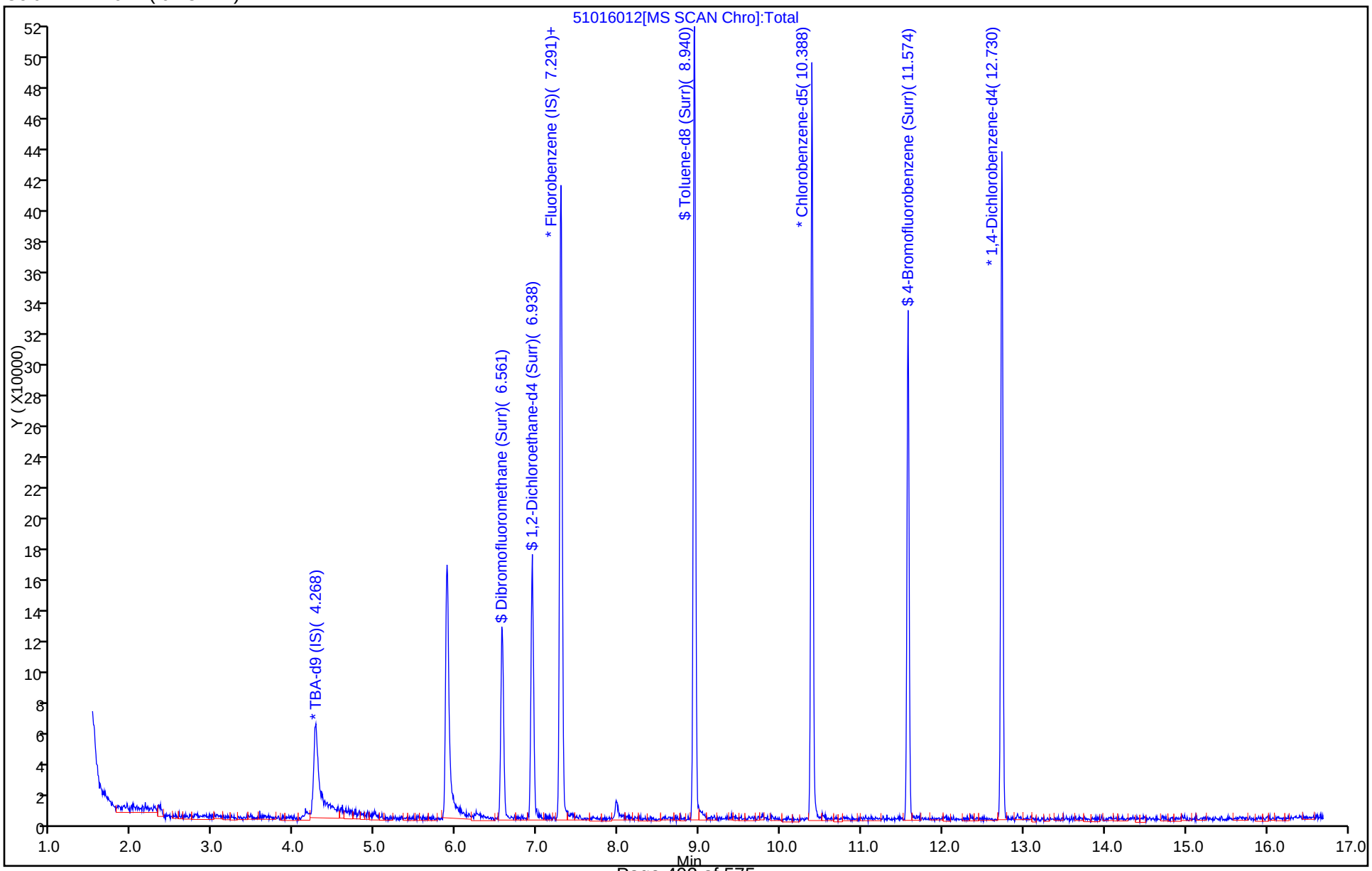
Report Date: 16-Oct-2015 16:43:35 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151016-9043.b\51016012.D

Injection Date:	16-Oct-2015 16:19:30	Instrument ID:	CHHP5	Operator ID:	001562
Lims ID:	MB			Worklist Smp#:	12
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)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-48435-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 180-157327/5

Matrix: Water | Lab File ID: 51017005.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 10/17/2015 11:40

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.: 157327 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	ND		1.0	0.28
75-01-4	Vinyl chloride	ND		1.0	0.23
74-83-9	Bromomethane	ND		1.0	0.31
75-00-3	Chloroethane	ND		1.0	0.21
75-35-4	1,1-Dichloroethene	ND		1.0	0.30
67-64-1	Acetone	ND		5.0	2.5
75-15-0	Carbon disulfide	ND		1.0	0.21
75-09-2	Methylene Chloride	ND		1.0	0.13
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.17
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.18
75-34-3	1,1-Dichloroethane	ND		1.0	0.12
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.24
74-97-5	Bromochloromethane	ND		1.0	0.18
78-93-3	2-Butanone (MEK)	ND		5.0	0.55
67-66-3	Chloroform	ND		1.0	0.17
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.29
56-23-5	Carbon tetrachloride	ND		1.0	0.14
71-43-2	Benzene	ND		1.0	0.11
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
79-01-6	Trichloroethene	ND		1.0	0.14
78-87-5	1,2-Dichloropropane	ND		1.0	0.095
75-27-4	Bromodichloromethane	ND		1.0	0.13
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.19
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	0.53
108-88-3	Toluene	ND		1.0	0.15
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.15
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.20
127-18-4	Tetrachloroethene	ND		1.0	0.15
591-78-6	2-Hexanone	ND		5.0	0.16
124-48-1	Dibromochloromethane	ND		1.0	0.14
106-93-4	1,2-Dibromoethane (EDB)	ND		1.0	0.18
108-90-7	Chlorobenzene	ND		1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	0.28
100-41-4	Ethylbenzene	ND		1.0	0.23
1330-20-7	Xylenes, Total	ND		3.0	0.49
100-42-5	Styrene	ND		1.0	0.097

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh Job No.: 180-48435-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 180-157327/5

Matrix: Water Lab File ID: 51017005.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 10/17/2015 11:40

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.: 157327 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-25-2	Bromoform	ND		1.0	0.19
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.20
107-13-1	Acrylonitrile	ND		20	0.55
123-91-1	1,4-Dioxane	ND		200	34

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	88		64-135
2037-26-5	Toluene-d8 (Surr)	97		71-118
460-00-4	4-Bromofluorobenzene (Surr)	85		70-118
1868-53-7	Dibromofluoromethane (Surr)	85		70-128

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151017-9055.b\51017005.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 17-Oct-2015 11:40:30 ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: MB
Misc. Info.: 180-0009055-005
Operator ID: 034635 Instrument ID: CHHP5

Method: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151017-9055.b\MSVOA_LL_CHHP5.m
Limit Group: VOA 8260C ICAL
Last Update: 17-Oct-2015 17:47:02 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: XAWRK051

First Level Reviewer: journetp Date: 17-Oct-2015 11:54:43

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	4.266	0.000	0	96893	1000.0	1000.0	
* 2 Fluorobenzene (IS)	96	7.290	7.289	0.001	97	510411	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.386	10.392	-0.006	90	110695	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.734	12.734	0.000	97	139550	50.0	50.0	
$ 5 Dibromofluoromethane (Surr	113	6.566	6.559	0.007	93	106501	50.0	42.5	
$ 6 1,2-Dichloroethane-d4 (Sur	65	6.937	6.936	0.001	0	151605	50.0	44.0	
$ 7 Toluene-d8 (Surr)	98	8.938	8.938	0.000	94	414252	50.0	48.5	
$ 8 4-Bromofluorobenzene (Surr	95	11.572	11.572	0.000	87	136693	50.0	42.4	
11 Dichlorodifluoromethane	85		1.607					ND	
12 Chloromethane	50		1.766					ND	
13 Vinyl chloride	62		1.893					ND	
14 Butadiene	39		1.936					ND	
15 Bromomethane	94		2.246					ND	
16 Chloroethane	64		2.386					ND	
17 Dichlorofluoromethane	67		2.654					ND	
18 Trichlorofluoromethane	101		2.702					ND	
19 Ethanol	45		2.952					ND	
20 Ethyl ether	59		3.043					ND	
21 Acrolein	56		3.232					ND	
22 1,1-Dichloroethene	96		3.347					ND	
23 1,1,2-Trichloro-1,2,2-trif	101		3.414					ND	
24 Acetone	43		3.432					ND	
25 Iodomethane	142		3.542					ND	
26 Carbon disulfide	76		3.627					ND	
27 Isopropyl alcohol	45		3.706					ND	
29 Acetonitrile	40		3.846					ND	
28 3-Chloro-1-propene	76		3.913					ND	
30 Methyl acetate	43		3.937					ND	
31 Methylene Chloride	84		4.132					ND	
32 2-Methyl-2-propanol	59		4.400					ND	
33 Acrylonitrile	53		4.515					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		4.564					ND	
35 Methyl tert-butyl ether	73		4.570					ND	
36 Hexane	57		4.990					ND	
37 1,1-Dichloroethane	63		5.203					ND	
38 Vinyl acetate	43		5.294					ND	
39 2-Chloro-1,3-butadiene	53		5.300					ND	
41 Isopropyl ether	45		5.300					ND	
40 Isopropyl ether TIC	45		5.409					ND	
42 Tert-butyl ethyl ether	59		5.769					ND	
44 2,2-Dichloropropane	77		5.945					ND	
45 cis-1,2-Dichloroethene	96		5.951					ND	
46 2-Butanone (MEK)	43		5.957					ND	
43 Tert-butyl ethyl ether (TI	59		5.961					ND	
48 Ethyl acetate	43		6.030					ND	
47 Propionitrile	54		6.030					ND	
50 Methacrylonitrile	41		6.213					ND	
49 Chlorobromomethane	128		6.237					ND	
51 Tetrahydrofuran	42		6.243					ND	
52 Chloroform	83		6.383					ND	
53 1,1,1-Trichloroethane	97		6.541					ND	
54 Cyclohexane	56		6.614					ND	
56 Carbon tetrachloride	117		6.717					ND	
55 1,1-Dichloropropene	75		6.724					ND	
57 Isobutyl alcohol	41		6.918					ND	
58 Benzene	78		6.943					ND	
59 1,2-Dichloroethane	62		7.022					ND	
61 Tert-amyl methyl ether	73		7.119					ND	
60 Tert-amyl methyl ether (TI	73		7.262					ND	
62 n-Heptane	43		7.308					ND	
63 n-Butanol	56		7.630					ND	
64 Trichloroethene	130		7.679					ND	
65 Ethyl acrylate	55		7.794					ND	
66 Methylcyclohexane	83		7.916					ND	
67 1,2-Dichloropropane	63		7.952					ND	
68 Dibromomethane	93		8.031					ND	
70 1,4-Dioxane	88		8.031					ND	
69 Methyl methacrylate	69		8.032					ND	
71 Dichlorobromomethane	83		8.226					ND	
72 2-Nitropropane	41		8.451					ND	
73 2-Chloroethyl vinyl ether	63		8.530					ND	
74 cis-1,3-Dichloropropene	75		8.676					ND	
75 4-Methyl-2-pentanone (MIBK	43		8.828					ND	
76 Toluene	91		9.005					ND	
77 trans-1,3-Dichloropropene	75		9.248					ND	
78 Ethyl methacrylate	69		9.309					ND	
79 1,1,2-Trichloroethane	97		9.449					ND	
80 Tetrachloroethene	164		9.516					ND	
81 1,3-Dichloropropane	76		9.601					ND	
82 2-Hexanone	43		9.656					ND	
83 n-Butyl acetate	43		9.784					ND	
84 Chlorodibromomethane	129		9.814					ND	
85 Ethylene Dibromide	107		9.930					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
86 3-Chlorobenzotrifluoride	180		10.392					ND	
87 Chlorobenzene	112		10.416					ND	
88 4-Chlorobenzotrifluoride	180		10.477					ND	
89 1,1,1,2-Tetrachloroethane	131		10.507					ND	
90 Ethylbenzene	106		10.520					ND	
91 m-Xylene & p-Xylene	106		10.647					ND	
92 o-Xylene	106		11.031					ND	
93 Styrene	104		11.049					ND	
94 Bromoform	173		11.231					ND	
95 Cyclohexanol	57		11.250					ND	
96 2-Chlorobenzotrifluoride	180		11.298					ND	
97 Isopropylbenzene	105		11.396					ND	
98 Cyclohexanone	55		11.487					ND	
99 1,1,2,2-Tetrachloroethane	83		11.712					ND	
100 Bromobenzene	156		11.712					ND	
102 trans-1,4-Dichloro-2-buten	53		11.742					ND	
101 1,2,3-Trichloropropane	110		11.767					ND	
103 N-Propylbenzene	120		11.815					ND	
104 2-Chlorotoluene	126		11.901					ND	
105 3-Chlorotoluene	126		11.967					ND	
106 1,3,5-Trimethylbenzene	105		11.998					ND	
107 4-Chlorotoluene	126		12.022					ND	
108 tert-Butylbenzene	119		12.308					ND	
109 Pentachloroethane	167		12.345					ND	
110 1,2,4-Trimethylbenzene	105		12.369					ND	
111 1,2-dichloro-4-(trifluorom	214		12.412					ND	
112 sec-Butylbenzene	105		12.533					ND	
113 1,3-Dichlorobenzene	146		12.649					ND	
114 4-Isopropyltoluene	119		12.691					ND	
115 1,4-Dichlorobenzene	146		12.758					ND	
116 2,4-Dichloro-1-(triflourom	214		12.783					ND	
117 1,2,3-Trimethylbenzene	105		12.783					ND	
118 2,5-Dichlorobenzotrifluori	214		12.825					ND	
119 Benzyl chloride	91		12.874					ND	
120 n-Butylbenzene	91		13.099					ND	
121 1,2-Dichlorobenzene	146		13.111					ND	
122 1,2-Dibromo-3-Chloropropan	75		13.902					ND	
123 2,4- & 2,5- & 2,6- Dichlor	125		14.048					ND	
124 1,3,5-Trichlorobenzene	180		14.097					ND	
125 2,3- & 3,4- Dichlorotoluen	125		14.468					ND	
126 1,2,4-Trichlorobenzene	180		14.729					ND	
127 Hexachlorobutadiene	225		14.875					ND	
128 Naphthalene	128		14.991					ND	
129 1,2,3-Trichlorobenzene	180		15.216					ND	
131 2,4,5-Trichlorotoluene	159		15.995					ND	
130 2,3,6-Trichlorotoluene	159		16.092					ND	
132 2-Methylnaphthalene	142		16.135					ND	
150 2,6-Dichlorotoluene	1		0.000					ND	
152 Formaldehyde TIC	1		0.000					ND	
149 3,4-Dichlorotoluene	1		0.000					ND	
151 Isooctane	57		0.000					ND	
146 2,5-Dichlorotoluene	1		0.000					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
147 2,4-Dichlorotoluene	1		0.000					ND	
148 2,3-Dichlorotoluene	1		0.000					ND	
S 134 1,2-Dichloroethene, Total	96		1.000					ND	
S 133 Xylenes, Total	106		1.000					ND	
S 135 1,3-Dichloropropene, Total	1		0.000					ND	
T 138 Methyl n-amyl ketone TIC	43		0.000					ND	
T 136 Mesityl oxide TIC	83		0.000					ND	
T 153 1,2 Epoxybutane TIC	42		6.253					ND	
T 137 Tetrahydrofuran TIC	42		6.253					ND	

Reagents:

VOA8260INT_00043	Amount Added:	2.00	Units: uL	Run Reagent
VOA8260SURR_00043	Amount Added:	2.00	Units: uL	Run Reagent

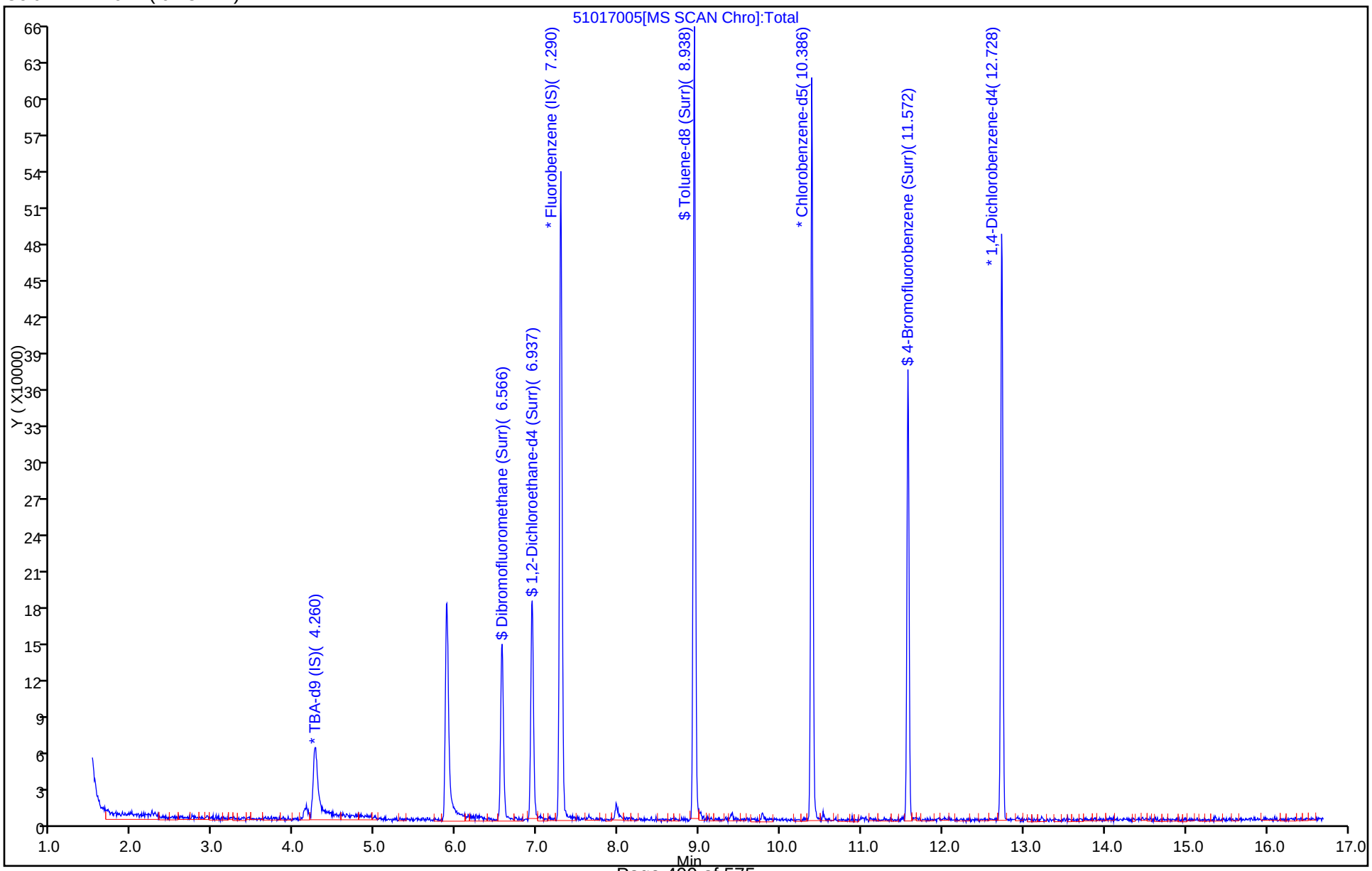
Report Date: 17-Oct-2015 17:48:05 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151017-9055.b\51017005.D

Injection Date:	17-Oct-2015 11:40:30	Instrument ID:	CHHP5	Operator ID:	034635
Lims ID:	MB			Worklist Smp#:	5
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	4
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.: 180-48435-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 180-157127/10

Matrix: Water | Lab File ID: 51015010.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 10/15/2015 15:59

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 157127 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	9.71		1.0	0.28
75-01-4	Vinyl chloride	8.06		1.0	0.23
74-83-9	Bromomethane	8.03		1.0	0.31
75-00-3	Chloroethane	7.31		1.0	0.21
75-35-4	1,1-Dichloroethene	9.39		1.0	0.30
67-64-1	Acetone	19.9		5.0	2.5
75-15-0	Carbon disulfide	10.0		1.0	0.21
75-09-2	Methylene Chloride	9.92		1.0	0.13
156-60-5	trans-1,2-Dichloroethene	9.68		1.0	0.17
1634-04-4	Methyl tert-butyl ether	9.53		1.0	0.18
75-34-3	1,1-Dichloroethane	9.61		1.0	0.12
156-59-2	cis-1,2-Dichloroethene	9.55		1.0	0.24
74-97-5	Bromochloromethane	8.75		1.0	0.18
78-93-3	2-Butanone (MEK)	19.4		5.0	0.55
67-66-3	Chloroform	9.41		1.0	0.17
71-55-6	1,1,1-Trichloroethane	9.64		1.0	0.29
56-23-5	Carbon tetrachloride	9.66		1.0	0.14
71-43-2	Benzene	10.2		1.0	0.11
107-06-2	1,2-Dichloroethane	9.87		1.0	0.21
79-01-6	Trichloroethene	9.16		1.0	0.14
78-87-5	1,2-Dichloropropane	9.92		1.0	0.095
75-27-4	Bromodichloromethane	9.80		1.0	0.13
10061-01-5	cis-1,3-Dichloropropene	8.94		1.0	0.19
108-10-1	4-Methyl-2-pentanone (MIBK)	18.6		5.0	0.53
108-88-3	Toluene	11.0		1.0	0.15
10061-02-6	trans-1,3-Dichloropropene	9.97		1.0	0.15
79-00-5	1,1,2-Trichloroethane	10.7		1.0	0.20
127-18-4	Tetrachloroethene	10.8		1.0	0.15
591-78-6	2-Hexanone	18.1		5.0	0.16
124-48-1	Dibromochloromethane	9.40		1.0	0.14
106-93-4	1,2-Dibromoethane (EDB)	10.2		1.0	0.18
108-90-7	Chlorobenzene	10.3		1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	9.76		1.0	0.28
100-41-4	Ethylbenzene	10.7		1.0	0.23
1330-20-7	Xylenes, Total	21.4		3.0	0.49
100-42-5	Styrene	11.4		1.0	0.097

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-48435-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 180-157127/10

Matrix: Water | Lab File ID: 51015010.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 10/15/2015 15:59

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 157127 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-25-2	Bromoform	10.7		1.0	0.19
79-34-5	1,1,2,2-Tetrachloroethane	11.7		1.0	0.20
107-13-1	Acrylonitrile	112		20	0.55
123-91-1	1,4-Dioxane	287		200	34

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		64-135
2037-26-5	Toluene-d8 (Surr)	112		71-118
460-00-4	4-Bromofluorobenzene (Surr)	104		70-118
1868-53-7	Dibromofluoromethane (Surr)	87		70-128

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151015-9022.b\51015010.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 15-Oct-2015 15:59:30 ALS Bottle#: 9 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCS
Misc. Info.: 180-0009022-010
Operator ID: 001562 Instrument ID: CHHP5

Method: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151015-9022.b\MSVOA_LL_CHHP5.m
Limit Group: VOA 8260C ICAL
Last Update: 15-Oct-2015 16:13:11 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: XAWRK008

First Level Reviewer: fergusond Date: 15-Oct-2015 16:13:11

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.281	4.273	0.008	0	156359	1000.0	1000.0	
* 2 Fluorobenzene (IS)	96	7.292	7.290	0.002	97	369647	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.389	10.386	0.003	89	81657	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.731	12.729	0.002	94	128850	50.0	50.0	
$ 5 Dibromofluoromethane (Surr	113	6.562	6.554	0.008	94	78949	50.0	43.5	
$ 6 1,2-Dichloroethane-d4 (Sur	65	6.939	6.931	0.008	0	122844	50.0	49.3	
$ 7 Toluene-d8 (Surr)	98	8.935	8.939	-0.004	95	353122	50.0	56.1	
$ 8 4-Bromofluorobenzene (Surr	95	11.575	11.573	0.002	86	123880	50.0	52.1	
11 Dichlorodifluoromethane	85	1.610	1.596	0.014	99	109399	50.0	52.4	
12 Chloromethane	50	1.775	1.772	0.003	99	148896	50.0	48.6	
13 Vinyl chloride	62	1.914	1.912	0.002	97	109652	50.0	40.3	
14 Butadiene	39	1.945	1.943	0.002	100	154127	50.0	48.0	
15 Bromomethane	94	2.249	2.241	0.008	91	44464	50.0	40.2	
16 Chloroethane	64	2.401	2.399	0.002	98	59963	50.0	36.5	
17 Dichlorofluoromethane	67	2.675	2.667	0.008	96	137114	50.0	39.4	
18 Trichlorofluoromethane	101	2.711	2.703	0.008	96	125150	50.0	48.1	
20 Ethyl ether	59	3.052	3.038	0.014	96	104035	50.0	43.1	
21 Acrolein	56	3.235	3.220	0.015	100	48357	150.0	134.5	
22 1,1-Dichloroethene	96	3.356	3.330	0.026	95	96649	50.0	46.9	
23 1,1,2-Trichloro-1,2,2-trif	101	3.423	3.415	0.008	93	106155	50.0	48.7	
24 Acetone	43	3.454	3.439	0.015	98	74137	100.0	99.4	
25 Iodomethane	142	3.539	3.537	0.002	99	139443	50.0	45.4	
26 Carbon disulfide	76	3.642	3.640	0.002	100	240197	50.0	50.2	
28 3-Chloro-1-propene	76	3.928	3.914	0.014	88	55306	50.0	47.4	
30 Methyl acetate	43	3.946	3.938	0.008	100	632656	250.0	283.9	
31 Methylene Chloride	84	4.147	4.139	0.008	95	120024	50.0	49.6	
32 2-Methyl-2-propanol	59	4.421	4.394	0.027	88	102911	500.0	584.8	
33 Acrylonitrile	53	4.530	4.522	0.008	96	606311	500.0	560.7	
34 trans-1,2-Dichloroethene	96	4.567	4.559	0.008	94	108210	50.0	48.4	
35 Methyl tert-butyl ether	73	4.591	4.577	0.014	94	246663	50.0	47.7	
36 Hexane	57	4.993	4.984	0.009	95	207159	50.0	55.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
37 1,1-Dichloroethane	63	5.206	5.197	0.009	96	211516	50.0	48.0	
38 Vinyl acetate	43	5.254	5.246	0.008	97	194277	50.0	58.8	
44 2,2-Dichloropropane	77	5.954	5.946	0.008	55	80056	50.0	45.4	
45 cis-1,2-Dichloroethene	96	5.954	5.946	0.008	86	114051	50.0	47.8	
46 2-Butanone (MEK)	43	5.960	5.952	0.008	68	108695	100.0	97.0	
49 Chlorobromomethane	128	6.246	6.231	0.015	88	45882	50.0	43.8	
51 Tetrahydrofuran	42	6.258	6.250	0.008	91	88834	100.0	98.8	
52 Chloroform	83	6.386	6.377	0.009	96	178970	50.0	47.0	
53 1,1,1-Trichloroethane	97	6.544	6.536	0.008	94	135612	50.0	48.2	
54 Cyclohexane	56	6.617	6.609	0.008	96	251927	50.0	53.5	
56 Carbon tetrachloride	117	6.714	6.718	-0.004	96	115697	50.0	48.3	
55 1,1-Dichloropropene	75	6.733	6.724	0.009	91	150788	50.0	48.5	
57 Isobutyl alcohol	41	6.933	6.925	0.008	93	116080	1250.0	1649.0	
58 Benzene	78	6.946	6.943	0.003	97	464073	50.0	50.9	
59 1,2-Dichloroethane	62	7.025	7.016	0.009	96	155567	50.0	49.3	
62 n-Heptane	43	7.311	7.302	0.009	97	186094	50.0	54.6	
64 Trichloroethene	130	7.676	7.673	0.003	96	102081	50.0	45.8	
66 Methylcyclohexane	83	7.919	7.917	0.002	97	179752	50.0	51.2	
67 1,2-Dichloropropane	63	7.955	7.947	0.008	94	118675	50.0	49.6	
70 1,4-Dioxane	88	8.034	8.026	0.008	42	23674	1000.0	1435.8	
68 Dibromomethane	93	8.034	8.032	0.002	95	55385	50.0	45.6	
71 Dichlorobromomethane	83	8.235	8.233	0.002	98	117707	50.0	49.0	
74 cis-1,3-Dichloropropene	75	8.679	8.671	0.008	89	125752	50.0	44.7	
75 4-Methyl-2-pentanone (MIBK	43	8.825	8.823	0.002	98	187142	100.0	93.0	
76 Toluene	91	9.002	9.006	-0.004	97	445948	50.0	55.2	
77 trans-1,3-Dichloropropene	75	9.251	9.255	-0.004	98	105213	50.0	49.9	
78 Ethyl methacrylate	69	9.312	9.310	0.002	96	113420	50.0	55.6	
79 1,1,2-Trichloroethane	97	9.446	9.444	0.002	94	81991	50.0	53.3	
80 Tetrachloroethene	164	9.519	9.517	0.002	96	84907	50.0	54.1	
81 1,3-Dichloropropane	76	9.604	9.602	0.002	98	149085	50.0	52.2	
82 2-Hexanone	43	9.659	9.663	-0.004	99	131345	100.0	90.4	
84 Chlorodibromomethane	129	9.817	9.815	0.002	91	62580	50.0	47.0	
85 Ethylene Dibromide	107	9.926	9.930	-0.004	98	75501	50.0	51.0	
86 3-Chlorobenzotrifluoride	180	10.389	10.393	-0.004	84	140426	50.0	54.1	
87 Chlorobenzene	112	10.419	10.417	0.002	91	269320	50.0	51.7	
88 4-Chlorobenzotrifluoride	180	10.480	10.478	0.002	95	131743	50.0	53.6	
89 1,1,1,2-Tetrachloroethane	131	10.510	10.514	-0.004	88	82815	50.0	48.8	
90 Ethylbenzene	106	10.517	10.520	-0.003	99	147356	50.0	53.4	
91 m-Xylene & p-Xylene	106	10.650	10.654	-0.004	0	184341	50.0	54.5	
92 o-Xylene	106	11.028	11.031	-0.003	99	169174	50.0	52.6	
93 Styrene	104	11.046	11.050	-0.004	95	303948	50.0	57.1	
94 Bromoform	173	11.234	11.232	0.002	96	40549	50.0	53.4	
96 2-Chlorobenzotrifluoride	180	11.301	11.299	0.002	96	139469	50.0	54.6	
97 Isopropylbenzene	105	11.399	11.396	0.003	97	454485	50.0	57.7	
99 1,1,2,2-Tetrachloroethane	83	11.709	11.707	0.002	79	121571	50.0	58.6	
100 Bromobenzene	156	11.709	11.707	0.002	97	103061	50.0	46.6	
102 trans-1,4-Dichloro-2-buten	53	11.739	11.743	-0.004	61	11549	50.0	14.4	
101 1,2,3-Trichloropropane	110	11.764	11.767	-0.003	87	37885	50.0	51.9	
103 N-Propylbenzene	120	11.812	11.816	-0.004	99	124566	50.0	49.2	
104 2-Chlorotoluene	126	11.897	11.901	-0.004	95	103870	50.0	48.3	
105 3-Chlorotoluene	126	11.964	11.968	-0.004	96	104933	50.0	47.4	
106 1,3,5-Trimethylbenzene	105	11.995	11.999	-0.004	95	387864	50.0	54.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
107 4-Chlorotoluene	126	12.025	12.029	-0.004	99	111257	50.0	47.0	
108 tert-Butylbenzene	119	12.311	12.309	0.002	95	298870	50.0	51.4	
110 1,2,4-Trimethylbenzene	105	12.372	12.370	0.002	98	381323	50.0	53.2	
111 1,2-dichloro-4-(trifluorom	214	12.408	12.412	-0.004	98	104403	50.0	52.2	
112 sec-Butylbenzene	105	12.536	12.534	0.002	95	450288	50.0	54.8	
113 1,3-Dichlorobenzene	146	12.652	12.650	0.002	98	201008	50.0	51.0	
114 4-Isopropyltoluene	119	12.688	12.692	-0.004	97	366228	50.0	52.7	
115 1,4-Dichlorobenzene	146	12.755	12.753	0.002	93	210247	50.0	51.3	
116 2,4-Dichloro-1-(triflourom	214	12.780	12.783	-0.003	96	91281	50.0	49.3	
118 2,5-Dichlorobenzotrifluori	214	12.822	12.820	0.002	0	113558	50.0	56.8	
120 n-Butylbenzene	91	13.096	13.100	-0.004	98	314724	50.0	52.9	
121 1,2-Dichlorobenzene	146	13.108	13.112	-0.004	96	186574	50.0	50.7	
122 1,2-Dibromo-3-Chloropropan	75	13.899	13.903	-0.004	75	17997	50.0	59.6	
123 2,4- & 2,5- & 2,6- Dichlor	125	14.045	14.043	0.002	0	330926	150.0	157.4	
125 2,3- & 3,4- Dichlorotoluen	125	14.465	14.469	-0.003	0	209319	100.0	104.4	
126 1,2,4-Trichlorobenzene	180	14.726	14.724	0.002	92	76167	50.0	53.2	
127 Hexachlorobutadiene	225	14.878	14.876	0.002	95	42327	50.0	61.4	
128 Naphthalene	128	14.994	14.992	0.002	97	205825	50.0	55.9	
129 1,2,3-Trichlorobenzene	180	15.213	15.217	-0.004	94	63976	50.0	55.2	
131 2,4,5-Trichlorotoluene	159	15.992	15.995	-0.003	0	22567	50.0	54.0	
130 2,3,6-Trichlorotoluene	159	16.095	16.099	-0.004	95	21654	50.0	56.2	
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		100.0	107.1	
S 134 1,2-Dichloroethene, Total	96				0		100.0	96.2	
S 135 1,3-Dichloropropene, Total	1				0		100.0	94.6	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

voaWAcro1stRe_00001	Amount Added:	6.00	Units: uL		
voaWEEpri Res_00006	Amount Added:	2.00	Units: uL		
voaWVA1stRest_00001	Amount Added:	2.00	Units: uL		
voaWKetmix2nd_00002	Amount Added:	2.00	Units: uL		
VOA8260VOA2ND_00147	Amount Added:	2.00	Units: uL		
VOA8260INT_00043	Amount Added:	2.00	Units: uL	Run Reagent	
VOA8260SURR_00043	Amount Added:	2.00	Units: uL	Run Reagent	

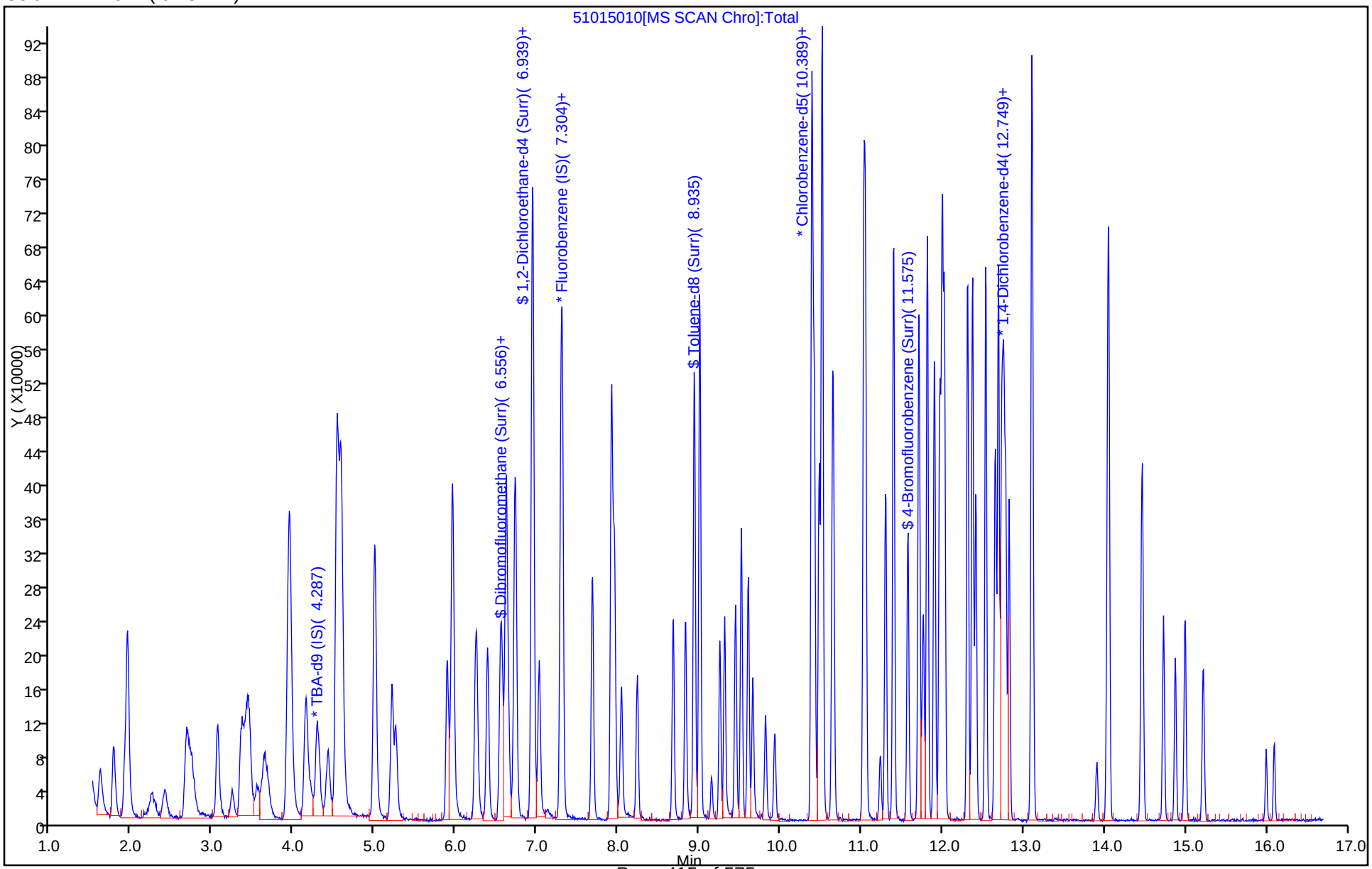
Report Date: 15-Oct-2015 16:13:12 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151015-9022.b\51015010.D

Injection Date:	15-Oct-2015 15:59:30	Instrument ID:	CHHP5	Operator ID:	001562
Lims ID:	LCS			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)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-48435-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 180-157249/15

Matrix: Water | Lab File ID: 51016015.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 10/16/2015 17:58

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 157249 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	8.57		1.0	0.28
75-01-4	Vinyl chloride	7.45		1.0	0.23
74-83-9	Bromomethane	7.06		1.0	0.31
75-00-3	Chloroethane	6.01		1.0	0.21
75-35-4	1,1-Dichloroethene	8.72		1.0	0.30
67-64-1	Acetone	17.6		5.0	2.5
75-15-0	Carbon disulfide	8.81		1.0	0.21
75-09-2	Methylene Chloride	9.36		1.0	0.13
156-60-5	trans-1,2-Dichloroethene	9.47		1.0	0.17
1634-04-4	Methyl tert-butyl ether	9.11		1.0	0.18
75-34-3	1,1-Dichloroethane	9.31		1.0	0.12
156-59-2	cis-1,2-Dichloroethene	9.52		1.0	0.24
74-97-5	Bromochloromethane	8.80		1.0	0.18
78-93-3	2-Butanone (MEK)	21.2		5.0	0.55
67-66-3	Chloroform	9.50		1.0	0.17
71-55-6	1,1,1-Trichloroethane	8.99		1.0	0.29
56-23-5	Carbon tetrachloride	8.67		1.0	0.14
71-43-2	Benzene	9.87		1.0	0.11
107-06-2	1,2-Dichloroethane	10.0		1.0	0.21
79-01-6	Trichloroethene	8.75		1.0	0.14
78-87-5	1,2-Dichloropropane	9.75		1.0	0.095
75-27-4	Bromodichloromethane	9.55		1.0	0.13
10061-01-5	cis-1,3-Dichloropropene	9.38		1.0	0.19
108-10-1	4-Methyl-2-pentanone (MIBK)	19.0		5.0	0.53
108-88-3	Toluene	10.8		1.0	0.15
10061-02-6	trans-1,3-Dichloropropene	10.1		1.0	0.15
79-00-5	1,1,2-Trichloroethane	10.7		1.0	0.20
127-18-4	Tetrachloroethene	10.4		1.0	0.15
591-78-6	2-Hexanone	19.1		5.0	0.16
124-48-1	Dibromochloromethane	9.86		1.0	0.14
106-93-4	1,2-Dibromoethane (EDB)	11.0		1.0	0.18
108-90-7	Chlorobenzene	9.83		1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	9.68		1.0	0.28
100-41-4	Ethylbenzene	10.1		1.0	0.23
1330-20-7	Xylenes, Total	20.2		3.0	0.49
100-42-5	Styrene	10.8		1.0	0.097

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-48435-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 180-157249/15

Matrix: Water | Lab File ID: 51016015.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 10/16/2015 17:58

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 157249 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-25-2	Bromoform	10.4		1.0	0.19
79-34-5	1,1,2,2-Tetrachloroethane	10.4		1.0	0.20
107-13-1	Acrylonitrile	94.5		20	0.55
123-91-1	1,4-Dioxane	187	J	200	34

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	96		64-135
2037-26-5	Toluene-d8 (Surr)	104		71-118
460-00-4	4-Bromofluorobenzene (Surr)	93		70-118
1868-53-7	Dibromofluoromethane (Surr)	86		70-128

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151016-9043.b\51016015.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 16-Oct-2015 17:58:30 ALS Bottle#: 10 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCS
Misc. Info.: 180-0009043-015
Operator ID: 001562 Instrument ID: CHHP5

Method: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151016-9043.b\MSVOA_LL_CHHP5.m
Limit Group: VOA 8260C ICAL
Last Update: 16-Oct-2015 18:19:39 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: XAWRK003

First Level Reviewer: fergusond Date: 16-Oct-2015 18:19:39

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.268	4.271	-0.003	0	107445	1000.0	1000.0	
* 2 Fluorobenzene (IS)	96	7.292	7.289	0.003	97	406759	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.388	10.391	-0.003	90	91211	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.730	12.733	-0.003	96	128169	50.0	50.0	
$ 5 Dibromofluoromethane (Surr	113	6.568	6.560	0.008	94	86331	50.0	43.2	
$ 6 1,2-Dichloroethane-d4 (Sur	65	6.939	6.931	0.008	0	131856	50.0	48.1	
$ 7 Toluene-d8 (Surr)	98	8.934	8.939	-0.005	94	366913	50.0	52.1	
$ 8 4-Bromofluorobenzene (Surr	95	11.574	11.573	0.001	87	122781	50.0	46.3	
11 Dichlorodifluoromethane	85	1.604	1.614	-0.010	99	108794	50.0	47.3	
12 Chloromethane	50	1.762	1.760	0.002	100	144538	50.0	42.8	
13 Vinyl chloride	62	1.902	1.900	0.002	97	111466	50.0	37.2	
14 Butadiene	39	1.932	1.937	-0.005	99	130896	50.0	37.0	
15 Bromomethane	94	2.254	2.247	0.007	92	43005	50.0	35.3	
16 Chloroethane	64	2.394	2.387	0.007	97	54272	50.0	30.1	
17 Dichlorofluoromethane	67	2.668	2.667	0.001	97	143915	50.0	37.6	
18 Trichlorofluoromethane	101	2.717	2.709	0.008	95	110834	50.0	38.7	
20 Ethyl ether	59	3.058	3.050	0.008	98	118816	50.0	44.7	
21 Acrolein	56	3.228	3.233	-0.005	97	47578	150.0	120.2	
22 1,1-Dichloroethene	96	3.356	3.354	0.002	93	98789	50.0	43.6	
23 1,1,2-Trichloro-1,2,2-trif	101	3.404	3.415	-0.011	94	102864	50.0	42.9	
24 Acetone	43	3.441	3.433	0.008	96	72204	100.0	88.0	
25 Iodomethane	142	3.550	3.543	0.007	99	150697	50.0	44.6	
26 Carbon disulfide	76	3.642	3.646	-0.004	100	231632	50.0	44.0	
28 3-Chloro-1-propene	76	3.927	3.914	0.013	90	60132	50.0	46.9	
30 Methyl acetate	43	3.946	3.938	0.008	100	613833	250.0	250.3	
31 Methylene Chloride	84	4.146	4.139	0.007	95	125463	50.0	46.8	
32 2-Methyl-2-propanol	59	4.408	4.395	0.013	87	59441	500.0	491.5	
33 Acrylonitrile	53	4.530	4.522	0.008	96	562177	500.0	472.4	
34 trans-1,2-Dichloroethene	96	4.566	4.565	0.001	96	116488	50.0	47.4	
35 Methyl tert-butyl ether	73	4.578	4.583	-0.005	93	259415	50.0	45.6	
36 Hexane	57	4.998	4.991	0.007	96	203752	50.0	49.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
37 1,1-Dichloroethane	63	5.205	5.198	0.007	96	225483	50.0	46.5	
38 Vinyl acetate	43	5.254	5.246	0.008	97	215925	50.0	59.4	
44 2,2-Dichloropropane	77	5.941	5.946	-0.005	79	92713	50.0	47.7	
45 cis-1,2-Dichloroethene	96	5.953	5.946	0.007	84	125086	50.0	47.6	
46 2-Butanone (MEK)	43	5.959	5.958	0.001	66	130613	100.0	105.9	
49 Chlorobromomethane	128	6.239	6.232	0.007	87	50785	50.0	44.0	
51 Tetrahydrofuran	42	6.251	6.250	0.001	92	91865	100.0	92.9	
52 Chloroform	83	6.385	6.384	0.001	96	198802	50.0	47.5	
53 1,1,1-Trichloroethane	97	6.543	6.542	0.001	93	139119	50.0	44.9	
54 Cyclohexane	56	6.622	6.615	0.007	97	244077	50.0	47.1	
56 Carbon tetrachloride	117	6.714	6.712	0.002	97	114327	50.0	43.4	
55 1,1-Dichloropropene	75	6.732	6.724	0.008	89	155518	50.0	45.4	
57 Isobutyl alcohol	41	6.927	6.919	0.008	92	94006	1250.0	1213.6	
58 Benzene	78	6.945	6.943	0.002	97	494748	50.0	49.3	
59 1,2-Dichloroethane	62	7.024	7.016	0.008	96	173431	50.0	50.0	
62 n-Heptane	43	7.310	7.309	0.002	96	184811	50.0	49.3	
64 Trichloroethene	130	7.675	7.674	0.001	96	107349	50.0	43.7	
66 Methylcyclohexane	83	7.918	7.917	0.001	97	175277	50.0	45.3	
67 1,2-Dichloropropane	63	7.949	7.947	0.002	94	128342	50.0	48.8	
70 1,4-Dioxane	88	8.040	8.032	0.008	33	16928	1000.0	933.0	M
68 Dibromomethane	93	8.040	8.039	0.001	95	64082	50.0	48.0	
71 Dichlorobromomethane	83	8.235	8.233	0.002	97	126209	50.0	47.8	
74 cis-1,3-Dichloropropene	75	8.679	8.677	0.002	89	145264	50.0	46.9	
75 4-Methyl-2-pentanone (MIBK	43	8.825	8.823	0.002	99	213384	100.0	94.9	
76 Toluene	91	9.007	9.006	0.001	97	486369	50.0	53.9	
77 trans-1,3-Dichloropropene	75	9.250	9.249	0.001	97	119192	50.0	50.6	
78 Ethyl methacrylate	69	9.311	9.310	0.001	94	118418	50.0	52.0	
79 1,1,2-Trichloroethane	97	9.445	9.444	0.001	94	92023	50.0	53.6	
80 Tetrachloroethene	164	9.518	9.517	0.001	94	91139	50.0	52.0	
81 1,3-Dichloropropane	76	9.603	9.602	0.001	97	164551	50.0	51.6	
82 2-Hexanone	43	9.658	9.657	0.001	97	155249	100.0	95.7	
84 Chlorodibromomethane	129	9.816	9.815	0.001	90	73297	50.0	49.3	
85 Ethylene Dibromide	107	9.926	9.930	-0.004	99	90968	50.0	55.0	
86 3-Chlorobenzotrifluoride	180	10.388	10.393	-0.005	83	142081	50.0	49.0	
87 Chlorobenzene	112	10.418	10.417	0.001	91	285762	50.0	49.1	
88 4-Chlorobenzotrifluoride	180	10.479	10.478	0.001	96	133215	50.0	48.6	
89 1,1,1,2-Tetrachloroethane	131	10.510	10.508	0.002	88	91774	50.0	48.4	
90 Ethylbenzene	106	10.516	10.514	0.002	99	155271	50.0	50.4	
91 m-Xylene & p-Xylene	106	10.650	10.648	0.002	0	193158	50.0	51.1	
92 o-Xylene	106	11.033	11.032	0.001	98	179738	50.0	50.0	
93 Styrene	104	11.051	11.050	0.001	95	320237	50.0	53.8	
94 Bromoform	173	11.234	11.232	0.002	93	43973	50.0	51.8	
96 2-Chlorobenzotrifluoride	180	11.295	11.299	-0.005	94	132763	50.0	46.5	
97 Isopropylbenzene	105	11.398	11.397	0.001	98	448266	50.0	51.0	
99 1,1,2,2-Tetrachloroethane	83	11.708	11.707	0.001	80	120095	50.0	51.8	
100 Bromobenzene	156	11.708	11.707	0.001	97	110826	50.0	50.4	
102 trans-1,4-Dichloro-2-buten	53	11.745	11.743	0.002	81	44179	50.0	55.5	
101 1,2,3-Trichloropropane	110	11.763	11.768	-0.005	87	40713	50.0	56.1	
103 N-Propylbenzene	120	11.818	11.816	0.002	99	125722	50.0	49.9	
104 2-Chlorotoluene	126	11.897	11.902	-0.005	95	109646	50.0	51.2	
105 3-Chlorotoluene	126	11.964	11.968	-0.004	96	105178	50.0	47.8	
106 1,3,5-Trimethylbenzene	105	11.994	11.999	-0.005	95	376922	50.0	53.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
107 4-Chlorotoluene	126	12.025	12.023	0.002	99	118263	50.0	50.2	
108 tert-Butylbenzene	119	12.310	12.315	-0.005	95	288205	50.0	49.8	
110 1,2,4-Trimethylbenzene	105	12.365	12.370	-0.005	98	372887	50.0	52.3	
111 1,2-dichloro-4-(trifluorom	214	12.414	12.413	0.001	98	97405	50.0	49.0	
112 sec-Butylbenzene	105	12.529	12.534	-0.005	95	421466	50.0	51.6	
113 1,3-Dichlorobenzene	146	12.651	12.650	0.001	98	202882	50.0	51.8	
114 4-Isopropyltoluene	119	12.688	12.692	-0.004	97	343733	50.0	49.7	
115 1,4-Dichlorobenzene	146	12.755	12.753	0.002	94	209711	50.0	51.5	
116 2,4-Dichloro-1-(triflourom	214	12.779	12.784	-0.005	96	88732	50.0	48.2	
118 2,5-Dichlorobenzotrifluori	214	12.821	12.820	0.001	0	104097	50.0	52.3	
120 n-Butylbenzene	91	13.101	13.100	0.001	99	281572	50.0	47.6	
121 1,2-Dichlorobenzene	146	13.113	13.112	0.001	96	189439	50.0	51.7	
122 1,2-Dibromo-3-Chloropropan	75	13.898	13.909	-0.011	76	15193	50.0	50.5	
123 2,4- & 2,5- & 2,6- Dichlor	125	14.044	14.049	-0.005	0	277948	150.0	132.9	
125 2,3- & 3,4- Dichlorotoluen	125	14.458	14.463	-0.005	0	170573	100.0	85.6	
126 1,2,4-Trichlorobenzene	180	14.726	14.730	-0.004	93	67716	50.0	47.5	
127 Hexachlorobutadiene	225	14.872	14.876	-0.004	94	36712	50.0	53.5	
128 Naphthalene	128	14.993	14.992	0.001	97	157882	50.0	43.1	
129 1,2,3-Trichlorobenzene	180	15.218	15.223	-0.005	95	51986	50.0	45.1	
131 2,4,5-Trichlorotoluene	159	15.985	15.996	-0.011	0	15338	50.0	36.9	
130 2,3,6-Trichlorotoluene	159	16.088	16.093	-0.005	90	13776	50.0	35.9	
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 133 Xylenes, Total	106				0		100.0	101.2	
S 134 1,2-Dichloroethene, Total	96				0		100.0	95.0	
S 135 1,3-Dichloropropene, Total	1				0		100.0	97.5	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

voaWAcro1stRe_00001	Amount Added:	6.00	Units: uL	
VOA8260VOA2ND_00147	Amount Added:	2.00	Units: uL	
voaWKetmix2nd_00002	Amount Added:	2.00	Units: uL	
voaWVA1stRest_00001	Amount Added:	2.00	Units: uL	
voaWEEpri Res_00006	Amount Added:	2.00	Units: uL	
VOA8260INT_00043	Amount Added:	2.00	Units: uL	Run Reagent
VOA8260SURR_00043	Amount Added:	2.00	Units: uL	Run Reagent

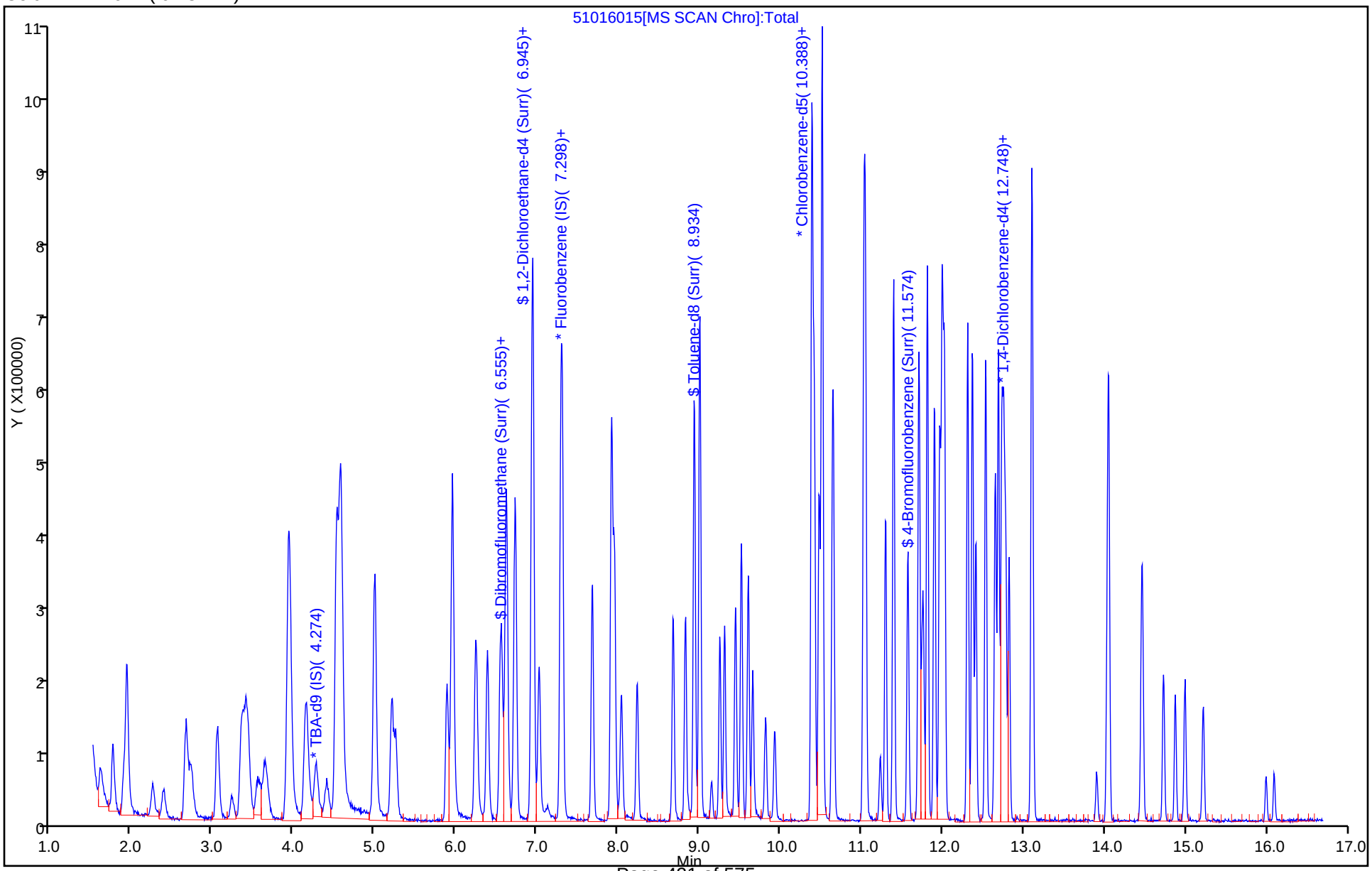
Report Date: 16-Oct-2015 18:19:39 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151016-9043.b\51016015.D

Injection Date:	16-Oct-2015 17:58:30	Instrument ID:	CHHP5	Operator ID:	001562
Lims ID:	LCS			Worklist Smp#:	15
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)



Manual Integration/User Assign Peak Report

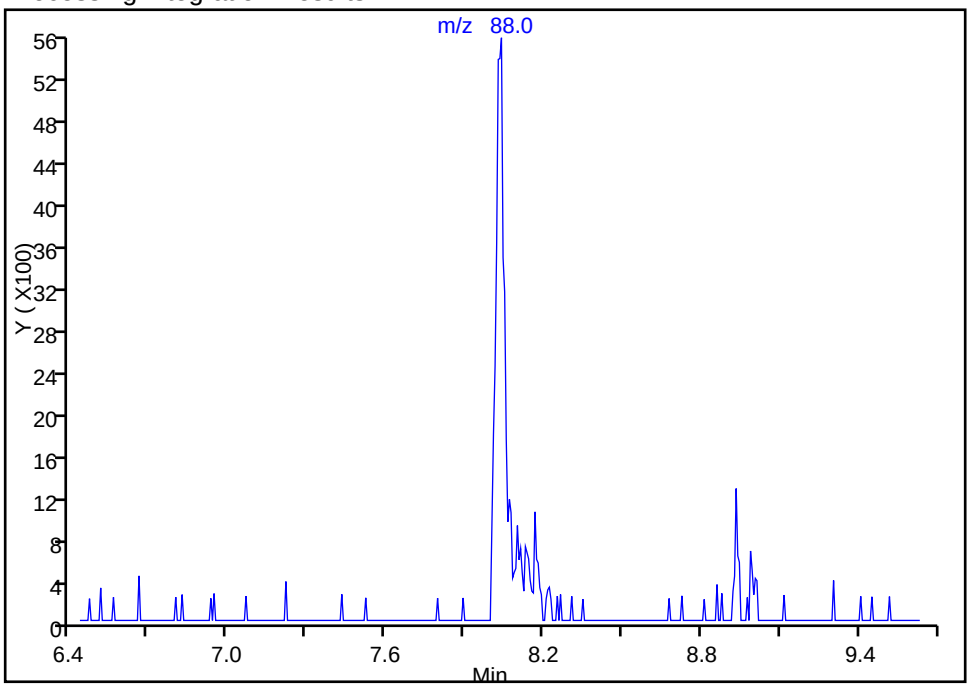
TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151016-9043.b\51016015.D
Injection Date: 16-Oct-2015 17:58:30 Instrument ID: CHHP5
Lims ID: LCS
Client ID:
Operator ID: 001562 ALS Bottle#: 10 Worklist Smp#: 15
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

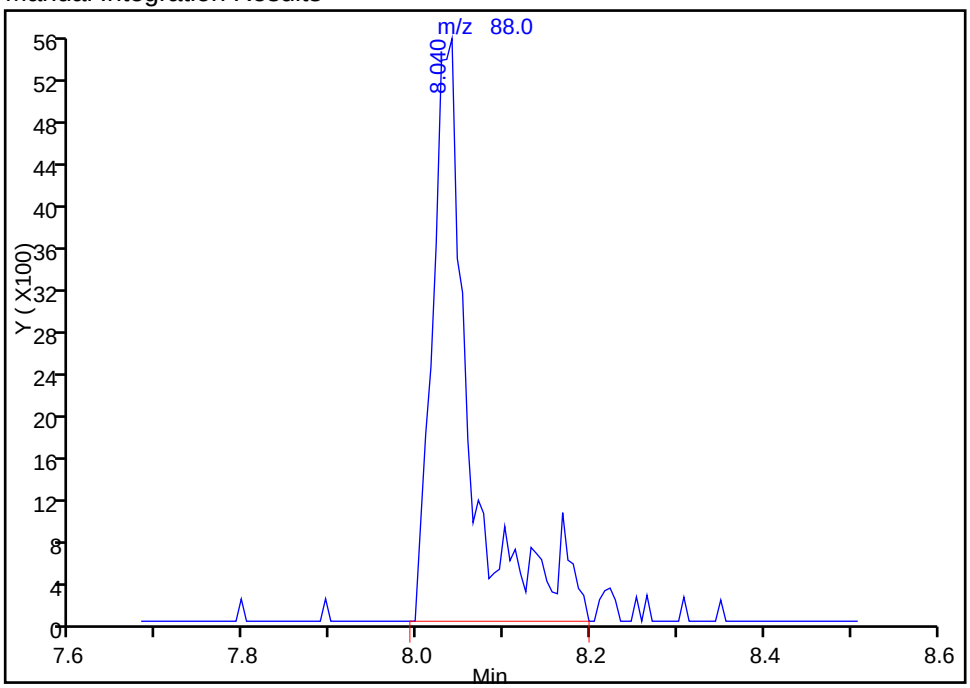
Processing Integration Results

Not Detected
Expected RT: 8.03



Manual Integration Results

RT: 8.04
Area: 16928
Amount: 932.9756
Amount Units: ng



Reviewer: fergusond, 16-Oct-2015 18:19:39
Audit Action: Manually Integrated
Audit Reason: Incomplete Integration

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-48435-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 180-157327/12

Matrix: Water | Lab File ID: 51017012.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 10/17/2015 16:00

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.: 157327 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	8.88		1.0	0.28
75-01-4	Vinyl chloride	7.83		1.0	0.23
74-83-9	Bromomethane	6.75		1.0	0.31
75-00-3	Chloroethane	6.25		1.0	0.21
75-35-4	1,1-Dichloroethene	9.63		1.0	0.30
67-64-1	Acetone	17.7		5.0	2.5
75-15-0	Carbon disulfide	10.5		1.0	0.21
75-09-2	Methylene Chloride	10.5		1.0	0.13
156-60-5	trans-1,2-Dichloroethene	9.55		1.0	0.17
1634-04-4	Methyl tert-butyl ether	10.1		1.0	0.18
75-34-3	1,1-Dichloroethane	10.1		1.0	0.12
156-59-2	cis-1,2-Dichloroethene	9.52		1.0	0.24
74-97-5	Bromochloromethane	9.37		1.0	0.18
78-93-3	2-Butanone (MEK)	18.7		5.0	0.55
67-66-3	Chloroform	9.78		1.0	0.17
71-55-6	1,1,1-Trichloroethane	9.47		1.0	0.29
56-23-5	Carbon tetrachloride	9.32		1.0	0.14
71-43-2	Benzene	9.79		1.0	0.11
107-06-2	1,2-Dichloroethane	10.1		1.0	0.21
79-01-6	Trichloroethene	8.86		1.0	0.14
78-87-5	1,2-Dichloropropane	9.57		1.0	0.095
75-27-4	Bromodichloromethane	9.99		1.0	0.13
10061-01-5	cis-1,3-Dichloropropene	8.63		1.0	0.19
108-10-1	4-Methyl-2-pentanone (MIBK)	22.6		5.0	0.53
108-88-3	Toluene	11.5		1.0	0.15
10061-02-6	trans-1,3-Dichloropropene	10.5		1.0	0.15
79-00-5	1,1,2-Trichloroethane	10.4		1.0	0.20
127-18-4	Tetrachloroethene	11.2		1.0	0.15
591-78-6	2-Hexanone	20.3		5.0	0.16
124-48-1	Dibromochloromethane	9.90		1.0	0.14
106-93-4	1,2-Dibromoethane (EDB)	10.9		1.0	0.18
108-90-7	Chlorobenzene	10.5		1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	11.0		1.0	0.28
100-41-4	Ethylbenzene	11.0		1.0	0.23
1330-20-7	Xylenes, Total	22.0		3.0	0.49
100-42-5	Styrene	11.5		1.0	0.097

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-48435-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 180-157327/12

Matrix: Water | Lab File ID: 51017012.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 10/17/2015 16:00

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.: 157327 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-25-2	Bromoform	10.1		1.0	0.19
79-34-5	1,1,2,2-Tetrachloroethane	11.7		1.0	0.20
107-13-1	Acrylonitrile	102		20	0.55
123-91-1	1,4-Dioxane	126	J	200	34

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	97		64-135
2037-26-5	Toluene-d8 (Surr)	113		71-118
460-00-4	4-Bromofluorobenzene (Surr)	108		70-118
1868-53-7	Dibromofluoromethane (Surr)	94		70-128

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151017-9055.b\51017012.D
Lims ID: lcs
Client ID:
Sample Type: LCS
Inject. Date: 17-Oct-2015 16:00:30 ALS Bottle#: 11 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-56257-B-1, 40x
Misc. Info.: 180-0009055-012
Operator ID: 034635 Instrument ID: CHHP5

Method: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151017-9055.b\MSVOA_LL_CHHP5.m
Limit Group: VOA 8260C ICAL
Last Update: 17-Oct-2015 17:47:02 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: XAWRK051

First Level Reviewer: journetp Date: 17-Oct-2015 17:43:00

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	4.266	0.013	0	94965	1000.0	1000.0	
* 2 Fluorobenzene (IS)	96	7.290	7.289	0.001	97	367634	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.386	10.392	-0.006	90	78305	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	12.729	12.734	-0.005	96	126056	50.0	50.0	
$ 5 Dibromofluoromethane (Surr	113	6.560	6.559	0.001	94	84666	50.0	46.9	
$ 6 1,2-Dichloroethane-d4 (Sur	65	6.931	6.936	-0.005	0	120796	50.0	48.7	
$ 7 Toluene-d8 (Surr)	98	8.939	8.938	0.001	94	341937	50.0	56.6	
$ 8 4-Bromofluorobenzene (Surr	95	11.573	11.572	0.001	86	122818	50.0	53.9	
11 Dichlorodifluoromethane	85	1.614	1.607	0.007	97	105716	5.00	50.9	
12 Chloromethane	50	1.766	1.766	0.000	99	135429	5.00	44.4	
13 Vinyl chloride	62	1.894	1.893	0.001	98	105971	5.00	39.2	
14 Butadiene	39	1.937	1.936	0.001	98	151534	5.00	47.4	
15 Bromomethane	94	2.247	2.246	0.001	91	37130	5.00	33.7	
16 Chloroethane	64	2.387	2.386	0.001	97	51021	5.00	31.3	
17 Dichlorofluoromethane	67	2.660	2.654	0.006	96	132555	5.00	38.3	
18 Trichlorofluoromethane	101	2.697	2.702	-0.005	91	110969	5.00	42.8	
20 Ethyl ether	59	3.050	3.043	0.007	97	109502	5.00	45.6	
21 Acrolein	56	3.226	3.232	-0.006	96	44255	15.0	123.7	
22 1,1-Dichloroethene	96	3.348	3.347	0.001	93	98582	5.00	48.1	
23 1,1,2-Trichloro-1,2,2-trif	101	3.409	3.414	-0.005	94	101610	5.00	46.8	
24 Acetone	43	3.451	3.432	0.019	98	65528	10.0	88.3	
25 Iodomethane	142	3.549	3.542	0.007	97	139849	5.00	45.8	
26 Carbon disulfide	76	3.634	3.627	0.007	100	249191	5.00	52.4	
28 3-Chloro-1-propene	76	3.920	3.913	0.007	88	49815	5.00	43.0	
30 Methyl acetate	43	3.938	3.937	0.001	100	605040	25.0	273.0	
31 Methylene Chloride	84	4.145	4.132	0.013	95	125298	5.00	52.3	
32 2-Methyl-2-propanol	59	4.400	4.400	0.000	89	64337	50.0	601.9	
33 Acrylonitrile	53	4.522	4.515	0.007	99	549961	50.0	511.4	
34 trans-1,2-Dichloroethene	96	4.565	4.564	0.001	95	106204	5.00	47.8	
35 Methyl tert-butyl ether	73	4.577	4.570	0.007	95	260675	5.00	50.7	
36 Hexane	57	4.997	4.990	0.007	97	201340	5.00	53.9	

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	5.203	0.000	97	220474	5.00	50.3	
38 Vinyl acetate	43	5.252	5.294	-0.042	97	212444	5.00	64.7	
44 2,2-Dichloropropane	77	5.952	5.945	0.007	56	93743	5.00	53.4	
45 cis-1,2-Dichloroethene	96	5.946	5.951	-0.005	85	113063	5.00	47.6	
46 2-Butanone (MEK)	43	5.958	5.957	0.001	97	104094	10.0	93.4	
49 Chlorobromomethane	128	6.238	6.237	0.001	87	48847	5.00	46.8	
51 Tetrahydrofuran	42	6.250	6.243	0.007	91	90046	10.0	100.7	
52 Chloroform	83	6.384	6.383	0.001	96	185019	5.00	48.9	
53 1,1,1-Trichloroethane	97	6.542	6.541	0.001	95	132484	5.00	47.4	
54 Cyclohexane	56	6.615	6.614	0.001	97	248047	5.00	53.0	
56 Carbon tetrachloride	117	6.712	6.717	-0.005	90	110976	5.00	46.6	
55 1,1-Dichloropropene	75	6.730	6.724	0.006	88	148977	5.00	48.2	
57 Isobutyl alcohol	41	6.925	6.918	0.007	91	80123	125.0	1144.4	
58 Benzene	78	6.943	6.943	0.000	97	443513	5.00	48.9	
59 1,2-Dichloroethane	62	7.022	7.022	0.000	96	158626	5.00	50.6	
62 n-Heptane	43	7.308	7.308	0.000	97	192982	5.00	56.9	
64 Trichloroethene	130	7.679	7.679	0.000	95	98298	5.00	44.3	
66 Methylcyclohexane	83	7.917	7.916	0.001	96	175774	5.00	50.3	
67 1,2-Dichloropropane	63	7.953	7.952	0.001	93	113766	5.00	47.8	
68 Dibromomethane	93	8.038	8.031	0.007	93	57406	5.00	47.6	
70 1,4-Dioxane	88	8.032	8.031	0.001	35	10334	100.0	630.2	
71 Dichlorobromomethane	83	8.227	8.226	0.001	97	119325	5.00	50.0	
73 2-Chloroethyl vinyl ether	63	8.531	8.530	0.001	89	131323	10.0	108.1	
74 cis-1,3-Dichloropropene	75	8.671	8.676	-0.005	87	120824	5.00	43.2	
75 4-Methyl-2-pentanone (MIBK	43	8.829	8.828	0.001	99	218095	10.0	113.0	
76 Toluene	91	9.006	9.005	0.001	97	447498	5.00	57.7	
77 trans-1,3-Dichloropropene	75	9.249	9.248	0.001	99	106016	5.00	52.4	
78 Ethyl methacrylate	69	9.310	9.309	0.001	96	108529	5.00	55.5	
79 1,1,2-Trichloroethane	97	9.450	9.449	0.001	93	76897	5.00	52.1	
80 Tetrachloroethene	164	9.517	9.516	0.001	96	84213	5.00	56.0	
81 1,3-Dichloropropane	76	9.602	9.601	0.001	97	155641	5.00	56.8	
82 2-Hexanone	43	9.656	9.656	0.000	99	141408	10.0	101.5	
84 Chlorodibromomethane	129	9.815	9.814	0.001	91	63210	5.00	49.5	
85 Ethylene Dibromide	107	9.930	9.930	0.000	98	77446	5.00	54.5	
86 3-Chlorobenzotrifluoride	180	10.393	10.392	0.001	88	152045	5.00	61.0	
87 Chlorobenzene	112	10.417	10.416	0.001	90	262460	5.00	52.6	
88 4-Chlorobenzotrifluoride	180	10.478	10.477	0.001	95	145071	5.00	61.6	
89 1,1,1,2-Tetrachloroethane	131	10.508	10.507	0.001	89	89107	5.00	54.8	
90 Ethylbenzene	106	10.514	10.520	-0.006	99	144952	5.00	54.8	
91 m-Xylene & p-Xylene	106	10.648	10.647	0.001	0	178390	5.00	55.0	
92 o-Xylene	106	11.025	11.031	-0.006	99	168893	5.00	54.8	
93 Styrene	104	11.050	11.049	0.001	95	293940	5.00	57.5	
94 Bromoform	173	11.226	11.231	-0.005	95	36752	5.00	50.4	
96 2-Chlorobenzotrifluoride	180	11.299	11.298	0.001	97	149440	5.00	61.0	
97 Isopropylbenzene	105	11.396	11.396	0.000	97	441788	5.00	58.5	
99 1,1,2,2-Tetrachloroethane	83	11.707	11.712	-0.005	77	116445	5.00	58.5	
100 Bromobenzene	156	11.707	11.712	-0.005	97	106337	5.00	49.1	
102 trans-1,4-Dichloro-2-buten	53	11.743	11.742	0.001	71	15339	5.00	19.6	
101 1,2,3-Trichloropropane	110	11.767	11.767	0.000	88	36307	5.00	50.9	
103 N-Propylbenzene	120	11.816	11.815	0.001	99	118938	5.00	48.0	
104 2-Chlorotoluene	126	11.901	11.901	0.000	95	102510	5.00	48.7	
105 3-Chlorotoluene	126	11.968	11.967	0.001	97	112645	5.00	52.1	

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	11.999	11.998	0.001	95	378468	5.00	54.1	
107 4-Chlorotoluene	126	12.023	12.022	0.001	98	111182	5.00	48.0	
108 tert-Butylbenzene	119	12.309	12.308	0.001	94	283927	5.00	49.9	
110 1,2,4-Trimethylbenzene	105	12.370	12.369	0.001	98	377257	5.00	53.8	
111 1,2-dichloro-4-(trifluorom	214	12.412	12.412	0.000	98	114535	5.00	58.6	
112 sec-Butylbenzene	105	12.534	12.533	0.001	95	424822	5.00	52.9	
113 1,3-Dichlorobenzene	146	12.650	12.649	0.001	97	201795	5.00	52.4	
114 4-Isopropyltoluene	119	12.692	12.691	0.001	97	359885	5.00	53.0	
115 1,4-Dichlorobenzene	146	12.753	12.758	-0.005	95	200106	5.00	49.9	
116 2,4-Dichloro-1-(triflourom	214	12.783	12.783	0.000	97	110282	5.00	60.9	
118 2,5-Dichlorobenzotrifluori	214	12.820	12.825	-0.005	0	110858	5.00	56.6	
120 n-Butylbenzene	91	13.100	13.099	0.001	99	296426	5.00	51.0	
121 1,2-Dichlorobenzene	146	13.112	13.111	0.001	95	175468	5.00	48.7	
122 1,2-Dibromo-3-Chloropropan	75	13.897	13.902	-0.005	75	16036	5.00	54.2	
123 2,4- & 2,5- & 2,6- Dichlor	125	14.043	14.048	-0.005	0	291246	15.0	141.6	
125 2,3- & 3,4- Dichlorotoluen	125	14.462	14.468	-0.006	0	177936	10.0	90.7	
126 1,2,4-Trichlorobenzene	180	14.724	14.729	-0.005	94	61831	5.00	44.1	
127 Hexachlorobutadiene	225	14.870	14.875	-0.005	96	36604	5.00	54.2	
128 Naphthalene	128	14.992	14.991	0.001	97	141465	5.00	39.3	
129 1,2,3-Trichlorobenzene	180	15.217	15.216	0.001	92	47647	5.00	42.0	
131 2,4,5-Trichlorotoluene	159	15.989	15.995	-0.006	0	15218	5.00	37.2	
130 2,3,6-Trichlorotoluene	159	16.093	16.092	0.001	93	15455	5.00	41.0	
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		10.0	95.4	
S 133 Xylenes, Total	106				0		10.0	109.8	
S 135 1,3-Dichloropropene, Total	1				0		10.0	95.6	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

VOA8260VOA2ND_00147	Amount Added:	0.20	Units: uL	
voaWVA1stRest_00001	Amount Added:	0.20	Units: uL	
voaW2-Clepri_00003	Amount Added:	0.20	Units: uL	
voaWKetmix2nd_00002	Amount Added:	0.20	Units: uL	
voaWEEpri Res_00006	Amount Added:	0.20	Units: uL	
voaWAcro1stRe_00002	Amount Added:	0.60	Units: uL	
VOA8260INT_00043	Amount Added:	2.00	Units: uL	Run Reagent
VOA8260SURR_00043	Amount Added:	2.00	Units: uL	Run Reagent

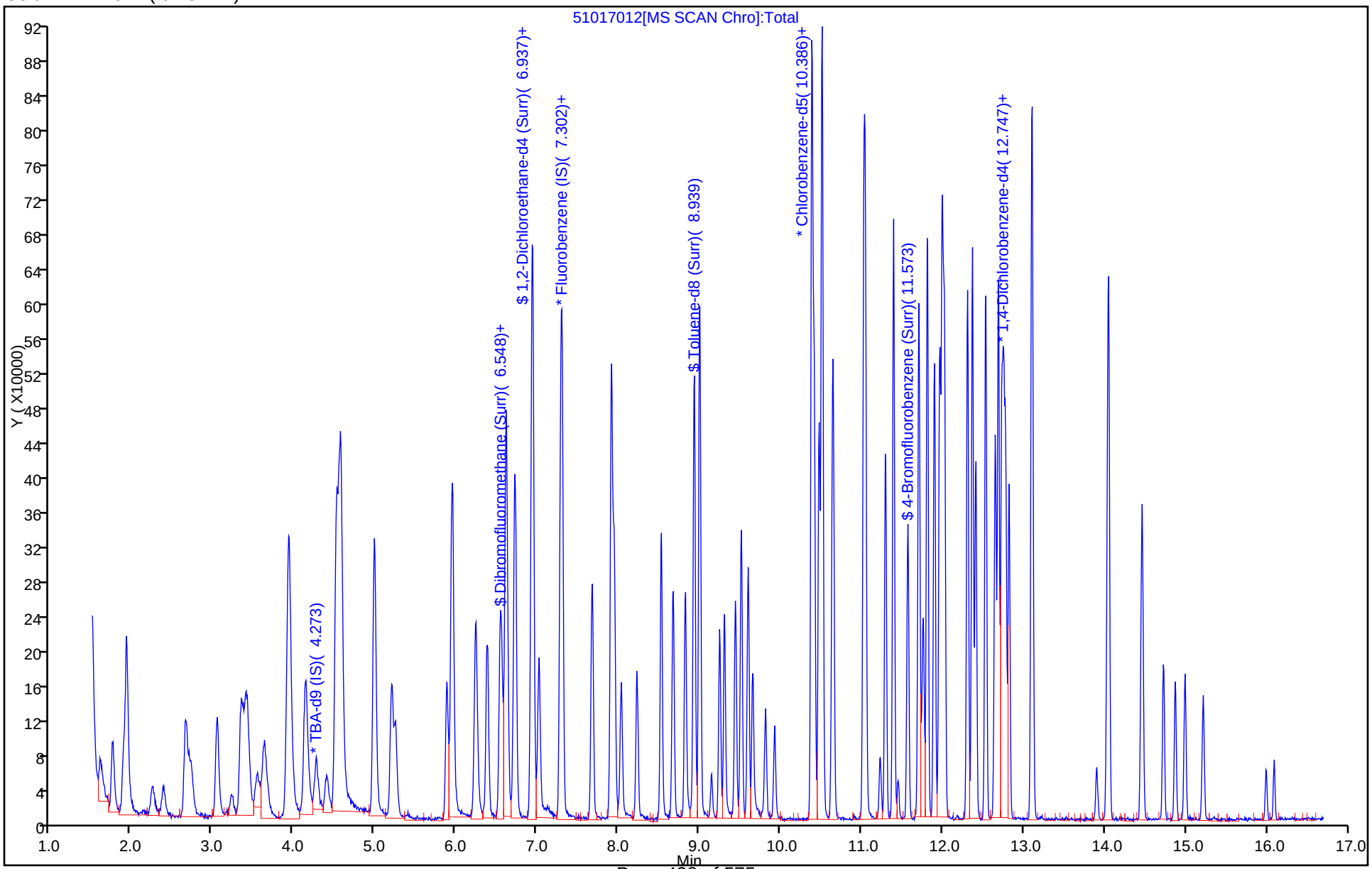
Report Date: 17-Oct-2015 17:47:49 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP5\20151017-9055.b\51017012.D

Injection Date:	17-Oct-2015 16:00:30	Instrument ID:	CHHP5	Operator ID:	034635
Lims ID:	lcs			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)



GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Pittsburgh Job No.: 180-48435-1

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.: 180-48435-1

SDG No.:

Instrument ID: CHHP5 Start Date: 10/15/2015 12:12

Analysis Batch Number: 157127 End Date: 10/15/2015 23:37

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 180-157127/4		10/15/2015 12:12	1	51015004.D	DB-624 0.18(mm)
CCVIS 180-157127/2		10/15/2015 12:56	1	51015002.D	DB-624 0.18(mm)
ZZZZZ		10/15/2015 13:44	1		DB-624 0.18(mm)
MB 180-157127/6		10/15/2015 14:08	1	51015006.D	DB-624 0.18(mm)
ZZZZZ		10/15/2015 15:11	1		DB-624 0.18(mm)
ZZZZZ		10/15/2015 15:35	1		DB-624 0.18(mm)
LCS 180-157127/10		10/15/2015 15:59	1	51015010.D	DB-624 0.18(mm)
ZZZZZ		10/15/2015 16:23	1		DB-624 0.18(mm)
ZZZZZ		10/15/2015 16:47	1		DB-624 0.18(mm)
ZZZZZ		10/15/2015 17:35	1		DB-624 0.18(mm)
ZZZZZ		10/15/2015 17:59	1		DB-624 0.18(mm)
ZZZZZ		10/15/2015 18:23	1		DB-624 0.18(mm)
180-48435-2	HD-CW-13-0/1-0	10/15/2015 19:12	25	51015018.D	DB-624 0.18(mm)
180-48435-3	HD-CW-15A-0/1-0	10/15/2015 19:36	500	51015019.D	DB-624 0.18(mm)
180-48435-4	HD-CW-17-0/1-0	10/15/2015 20:25	5	51015021.D	DB-624 0.18(mm)
180-48435-5	HD-CW-20-0/1-0	10/15/2015 20:49	50	51015022.D	DB-624 0.18(mm)
180-48435-6	HD-QC-5-0/1-2	10/15/2015 21:13	1	51015023.D	DB-624 0.18(mm)
ZZZZZ		10/15/2015 21:37	1		DB-624 0.18(mm)
ZZZZZ		10/15/2015 22:01	1		DB-624 0.18(mm)
ZZZZZ		10/15/2015 22:25	1		DB-624 0.18(mm)
ZZZZZ		10/15/2015 22:49	1		DB-624 0.18(mm)
ZZZZZ		10/15/2015 23:37	1		DB-624 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Pittsburgh Job No.: 180-48435-1

SDG No.:

Instrument ID: CHHP5 Start Date: 10/16/2015 14:25

Analysis Batch Number: 157249 End Date: 10/17/2015 02:01

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 180-157249/11		10/16/2015 14:25	1	51016011.D	DB-624 0.18(mm)
CCVIS 180-157249/4		10/16/2015 15:06	1	51016004.D	DB-624 0.18(mm)
CCV 180-157249/5		10/16/2015 15:30	1	51016005.D	DB-624 0.18(mm)
ZZZZZ		10/16/2015 15:55	1		DB-624 0.18(mm)
MB 180-157249/12		10/16/2015 16:19	1	51016012.D	DB-624 0.18(mm)
ZZZZZ		10/16/2015 17:10	1		DB-624 0.18(mm)
ZZZZZ		10/16/2015 17:34	1		DB-624 0.18(mm)
LCS 180-157249/15		10/16/2015 17:58	1	51016015.D	DB-624 0.18(mm)
ZZZZZ		10/16/2015 18:22	1		DB-624 0.18(mm)
ZZZZZ		10/16/2015 18:46	1		DB-624 0.18(mm)
180-48435-1 DL	HD-CW-9-0/1-0 DL	10/16/2015 19:34	20	51016019.D	DB-624 0.18(mm)
ZZZZZ		10/16/2015 19:58	1		DB-624 0.18(mm)
ZZZZZ		10/16/2015 20:23	1		DB-624 0.18(mm)
ZZZZZ		10/16/2015 20:47	1		DB-624 0.18(mm)
ZZZZZ		10/16/2015 21:11	1		DB-624 0.18(mm)
ZZZZZ		10/16/2015 21:35	1		DB-624 0.18(mm)
ZZZZZ		10/16/2015 21:59	1		DB-624 0.18(mm)
ZZZZZ		10/16/2015 22:23	1		DB-624 0.18(mm)
ZZZZZ		10/16/2015 22:48	1		DB-624 0.18(mm)
ZZZZZ		10/16/2015 23:12	1		DB-624 0.18(mm)
ZZZZZ		10/16/2015 23:36	25		DB-624 0.18(mm)
ZZZZZ		10/17/2015 00:00	25		DB-624 0.18(mm)
ZZZZZ		10/17/2015 00:24	25		DB-624 0.18(mm)
ZZZZZ		10/17/2015 00:48	50		DB-624 0.18(mm)
ZZZZZ		10/17/2015 01:13	50		DB-624 0.18(mm)
ZZZZZ		10/17/2015 01:37	50		DB-624 0.18(mm)
ZZZZZ		10/17/2015 02:01	50		DB-624 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Pittsburgh Job No.: 180-48435-1

SDG No.:

Instrument ID: CHHP5 Start Date: 10/17/2015 09:32

Analysis Batch Number: 157327 End Date: 10/17/2015 20:49

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 180-157327/1		10/17/2015 09:32	1	51017001.D	DB-624 0.18(mm)
CCVIS 180-157327/2		10/17/2015 10:09	1	51017002.D	DB-624 0.18(mm)
CCV 180-157327/3		10/17/2015 10:52	1	51017003.D	DB-624 0.18(mm)
ZZZZZ		10/17/2015 11:16	1		DB-624 0.18(mm)
MB 180-157327/5		10/17/2015 11:40	1	51017005.D	DB-624 0.18(mm)
LCS 180-157327/12		10/17/2015 16:00	1	51017012.D	DB-624 0.18(mm)
ZZZZZ		10/17/2015 16:24	40		DB-624 0.18(mm)
ZZZZZ		10/17/2015 20:25	20		DB-624 0.18(mm)
180-48435-1	HD-CW-9-0/1-0	10/17/2015 20:49	2	51017024.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.: 180-48435-1

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-CW-15A-0/1-0	180-48435-3	50	55	58	59	60	77
HD-CW-15A-0/1-0 DL	180-48435-3 DL	43	53	46	55	34	65
	MB 180-156321/1-A	75	76	77	73	59	78
	LCS 180-156321/2-A	63	64	67	63	67	70
	LCSD 180-156321/3-A	62	64	64	62	67	71

	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.: 180-48435-1

SDG No.:

Matrix: Water Level: Low Lab File ID: V1013005.D

Lab ID: LCS 180-156321/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,4-Dioxane	20.0	7.52	38	36-100	

Column to be used to flag recovery and RPD values

FORM III 8270D LL

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48435-1

SDG No.:

Matrix: Water Level: Low Lab File ID: V1013006.D

Lab ID: LCSD 180-156321/3-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,4-Dioxane	20.0	7.02	35	7	26	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.: 180-48435-1

SDG No.:

Lab File ID: V1013004.D Lab Sample ID: MB 180-156321/1-A

Matrix: Water Date Extracted: 10/08/2015 11:02

Instrument ID: CH731 Date Analyzed: 10/13/2015 11:24

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 180-156321/2-A	V1013005.D	10/13/2015 11:52
	LCSD 180-156321/3-A	V1013006.D	10/13/2015 12:21
HD-CW-15A-0/1-0	180-48435-3	V1013016.D	10/13/2015 17:08
HD-CW-15A-0/1-0 DL	180-48435-3 DL	V1014008.D	10/14/2015 14:52

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Pittsburgh Job No.: 180-48435-1

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.: 180-48435-1

SDG No.:

Lab File ID: V1013002.D DFTPP Injection Date: 10/13/2015

Instrument ID: CH731 DFTPP Injection Time: 10:06

Analysis Batch No.: 156809

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30.0 - 60.0 % of mass 198	41.4	
68	Less than 2.0 % of mass 69	0.3	(0.7)1
69	Mass 69 relative abundance	44.2	
70	Less than 2.0 % of mass 69	0.1	(0.2)1
127	40.0 - 60.0 % of mass 198	47.5	
197	Less than 1.0 % of mass 198	0.2	
198	Base Peak, 100 % relative abundance	100.0	
199	5.0- 9.0 % of mass 198	6.6	
275	10.0 - 30.0 % of mass 198	22.2	
365	Greater than 1.0 % of mass 198	2.8	
441	Present but less than mass 443	8.9	(85.1)3
442	Greater than 40.0 % of mass 198	59.5	
443	17.0 - 23.0 % of mass 442	10.5	(17.6)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 180-156809/3	V1013003.D	10/13/2015	10:56
	MB 180-156321/1-A	V1013004.D	10/13/2015	11:24
	LCS 180-156321/2-A	V1013005.D	10/13/2015	11:52
	LCSD 180-156321/3-A	V1013006.D	10/13/2015	12:21
HD-CW-15A-0/1-0	180-48435-3	V1013016.D	10/13/2015	17:08

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Pittsburgh Job No.: 180-48435-1

SDG No.:

Lab File ID: V1014002.D DFTPP Injection Date: 10/14/2015

Instrument ID: CH731 DFTPP Injection Time: 12:13

Analysis Batch No.: 156981

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30.0 - 60.0 % of mass 198	36.5	
68	Less than 2.0 % of mass 69	0.3	(0.7)1
69	Mass 69 relative abundance	40.1	
70	Less than 2.0 % of mass 69	0.2	(0.5)1
127	40.0 - 60.0 % of mass 198	45.0	
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	6.8	
275	10.0 - 30.0 % of mass 198	23.3	
365	Greater than 1.0 % of mass 198	2.8	
441	Present but less than mass 443	9.2	(75.6)3
442	Greater than 40.0 % of mass 198	67.2	
443	17.0 - 23.0 % of mass 442	12.2	(18.1)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 180-156981/3	V1014003.D	10/14/2015	12:30
HD-CW-15A-0/1-0 DL	180-48435-3 DL	V1014008.D	10/14/2015	14:52

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-48435-1

SDG No.:

Sample No.: CCVIS 180-156809/3 Date Analyzed: 10/13/2015 10:56

Instrument ID: CH731 GC Column: Rxi-5SilMS ID: 0.32(mm)

Lab File ID (Standard): V1013003.D Heated Purge: (Y/N) N

Calibration ID: 25150

		DCB		NPT		ANT	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		104661	6.30	414379	7.53	261978	9.17
UPPER LIMIT		209322	6.80	828758	8.03	523956	9.67
LOWER LIMIT		52331	5.80	207190	7.03	130989	8.67
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 180-156321/1-A		104395	6.30	417681	7.53	265824	9.17
LCS 180-156321/2-A		113903	6.30	455423	7.53	302513	9.17
LCSD 180-156321/3-A		122221	6.30	492315	7.53	322698	9.17
180-48435-3	HD-CW-15A-0/1-0	98815	6.29	373211	7.52	232129	9.15

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.: 180-48435-1

SDG No.:

Sample No.: CCVIS 180-156809/3 Date Analyzed: 10/13/2015 10:56

Instrument ID: CH731 GC Column: Rxi-5SilMS ID: 0.32(mm)

Lab File ID (Standard): V1013003.D Heated Purge: (Y/N) N

Calibration ID: 25150

		PHN		CRY		PRY	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		486001	10.56	524171	14.17	486125	17.14
UPPER LIMIT		972002	11.06	1048342	14.67	972250	17.64
LOWER LIMIT		243001	10.06	262086	13.67	243063	16.64
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 180-156321/1-A		497401	10.56	525051	14.16	478641	17.14
LCS 180-156321/2-A		588918	10.56	642742	14.16	610677	17.13
LCSD 180-156321/3-A		636396	10.56	668399	14.16	641882	17.13
180-48435-3	HD-CW-15A-0/1-0	428498	10.53	456062	14.11	421504	17.07

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.: 180-48435-1

SDG No.:

Sample No.: CCVIS 180-156981/3 Date Analyzed: 10/14/2015 12:30

Instrument ID: CH731 GC Column: Rxi-5SilMS ID: 0.32(mm)

Lab File ID (Standard): V1014003.D Heated Purge: (Y/N) N

Calibration ID: 25150

		DCB		NPT		ANT	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		123681	6.30	491120	7.53	306185	9.16
UPPER LIMIT		247362	6.80	982240	8.03	612370	9.66
LOWER LIMIT		61841	5.80	245560	7.03	153093	8.66
LAB SAMPLE ID	CLIENT SAMPLE ID						
180-48435-3 DL	HD-CW-15A-0/1-0 DL	107506	6.30	452458	7.52	285406	9.16

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.: 180-48435-1

SDG No.:

Sample No.: CCVIS 180-156981/3 Date Analyzed: 10/14/2015 12:30

Instrument ID: CH731 GC Column: Rxi-5SilMS ID: 0.32(mm)

Lab File ID (Standard): V1014003.D Heated Purge: (Y/N) N

Calibration ID: 25150

		PHN		CRY		PRY	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		571562	10.55	600025	14.15	595551	17.13
UPPER LIMIT		1143124	11.05	1200050	14.65	1191102	17.63
LOWER LIMIT		285781	10.05	300013	13.65	297776	16.63
LAB SAMPLE ID	CLIENT SAMPLE ID						
180-48435-3 DL	HD-CW-15A-0/1-0 DL	560158	10.55	649275	14.15	637077	17.12

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.: 180-48435-1

SDG No.:

Client Sample ID: HD-CW-15A-0/1-0 | Lab Sample ID: 180-48435-3

Matrix: Water | Lab File ID: V1013016.D

Analysis Method: 8270D LL | Date Collected: 10/05/2015 06:15

Extract. Method: 3520C | Date Extracted: 10/08/2015 11:02

Sample wt/vol: 260(mL) | Date Analyzed: 10/13/2015 17:08

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.: 156809 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	*1,4-Dioxane*	*130*	*E **	*1.9*	*0.050*

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)	60		30-118
4165-60-0	Nitrobenzene-d5 (Surr)	58		27-114
4165-62-2	Phenol-d5 (Surr)	55		25-105
1718-51-0	Terphenyl-d14 (Surr)	77		20-118

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CH731\20151013-8968.b\V1013016.D
Lims ID: 180-48435-D-3-A Lab Sample ID: 180-48435-3
Client ID: HD-CW-15A-0/1-0
Sample Type: Client
Inject. Date: 13-Oct-2015 17:08:30 ALS Bottle#: 15 Worklist Smp#: 16
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 180-0008968-016
Operator ID: 003200 Instrument ID: CH731

Method: \\ChromNA\Pittsburgh\ChromData\CH731\20151013-8968.b\BNA_CH731.m
Limit Group: BNA 8270D ICAL
Last Update: 14-Oct-2015 06:19:41 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: XAWRK013

First Level Reviewer: piccolinov Date: 14-Oct-2015 06:14:05

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.293	6.299	-0.006	95	98815	8.00	
* 2 Naphthalene-d8	136	7.517	7.533	-0.016	99	373211	8.00	
* 3 Acenaphthene-d10	164	9.151	9.173	-0.022	93	232129	8.00	
* 4 Phenanthrene-d10	188	10.530	10.562	-0.032	97	428498	8.00	
* 5 Chrysene-d12	240	14.109	14.168	-0.059	96	456062	8.00	
* 6 Perylene-d12	264	17.074	17.144	-0.070	98	421504	8.00	
$ 7 2-Fluorophenol	112	4.910	4.894	0.016	93	290646	20.0	
$ 8 Phenol-d5	99	5.935	5.936	-0.001	94	421659	22.2	
$ 9 Nitrobenzene-d5	82	6.828	6.839	-0.011	92	422064	23.2	
$ 10 2-Fluorobiphenyl	172	8.510	8.527	-0.017	100	959441	23.7	
$ 11 2,4,6-Tribromophenol	330	9.878	9.905	-0.027	91	142217	23.9	
$ 12 Terphenyl-d14	244	12.335	12.373	-0.038	99	1336955	30.9	
13 1,4-Dioxane	88	1.518	1.464	0.054	88	1397189	278.6	E

QC Flag Legend

Processing Flags
E - Exceeded Maximum Amount

Reagents:

SVTAPITINTRNi_00009 Amount Added: 1.00 Units: uL Run Reagent

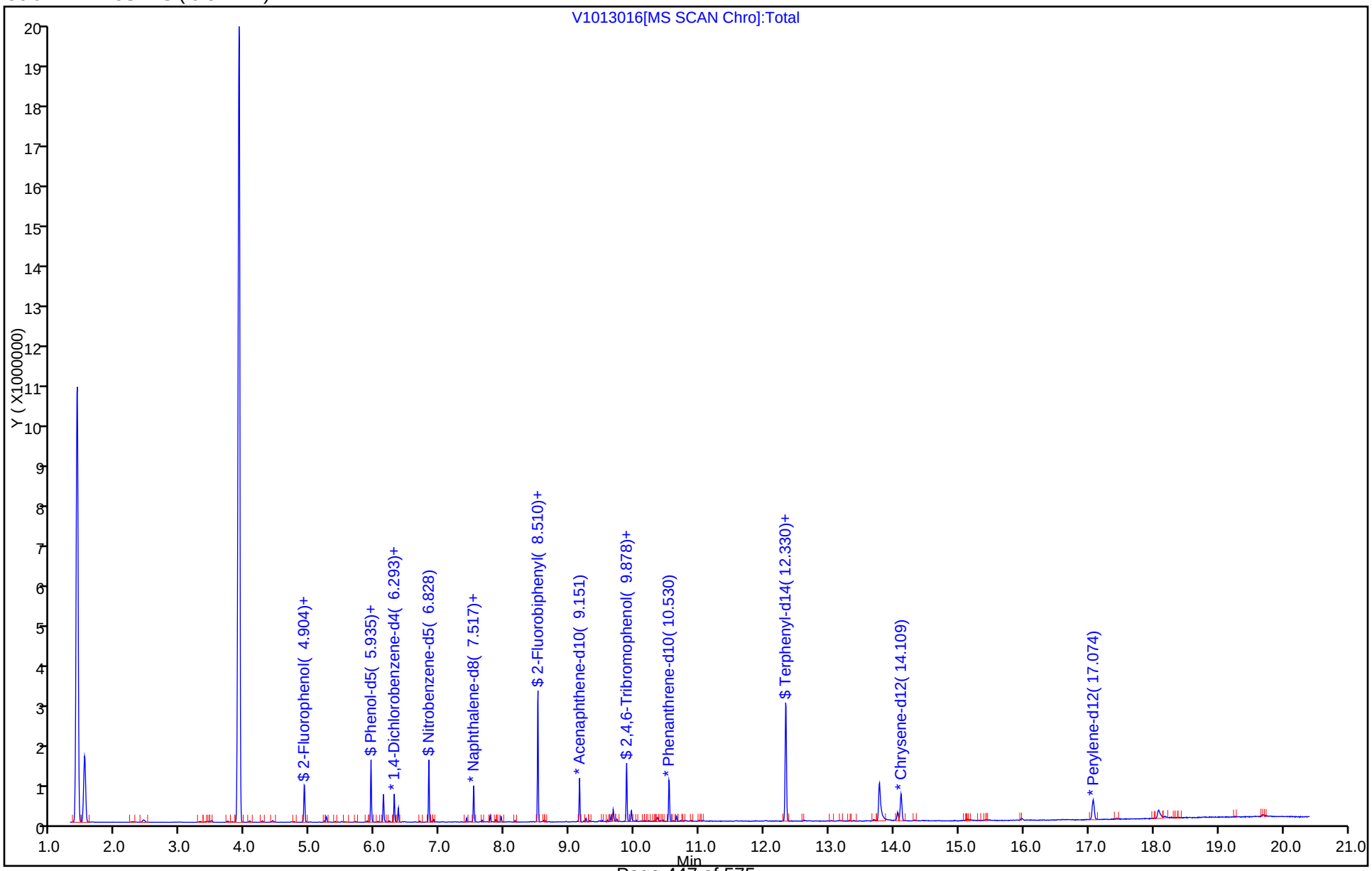
Report Date: 14-Oct-2015 06:20:45 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CH731\20151013-8968.b\V1013016.D

Injection Date:	13-Oct-2015 17:08:30	Instrument ID:	CH731	Operator ID:	003200
Lims ID:	180-48435-D-3-A	Lab Sample ID:	180-48435-3	Worklist Smp#:	16
Client ID:	HD-CW-15A-0/1-0				
Injection Vol:	2.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	15
Method:	BNA_CH731	Limit Group:	BNA 8270D ICAL		

Column: Rxi-5SilMS (0.32 mm)



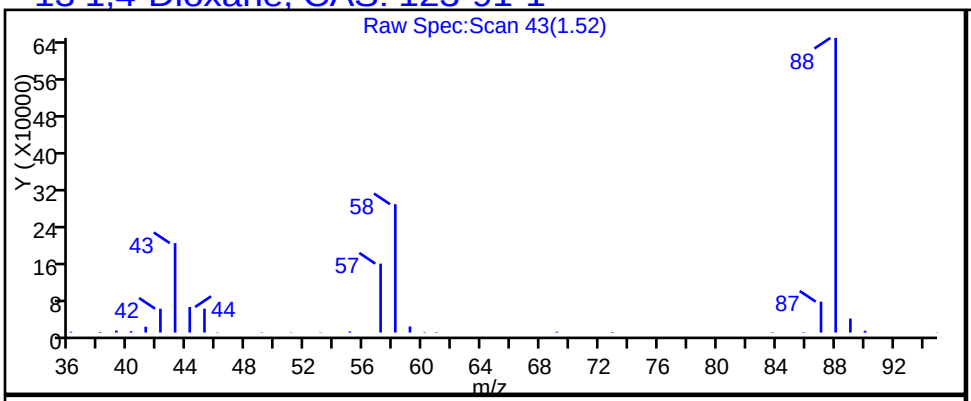
Report Date: 14-Oct-2015 06:20:46 Chrom Revision: 2.2 08-Sep-2015 13:41:46

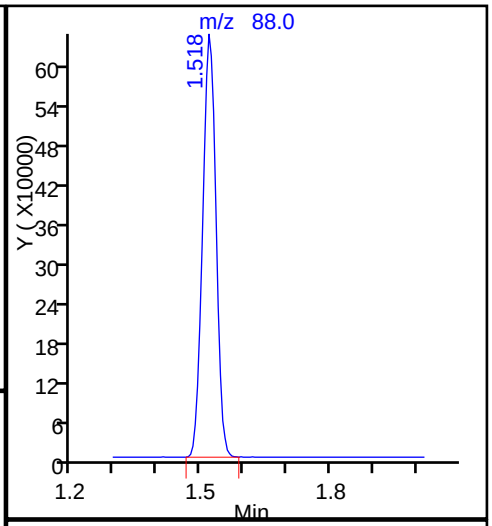
TestAmerica Pittsburgh

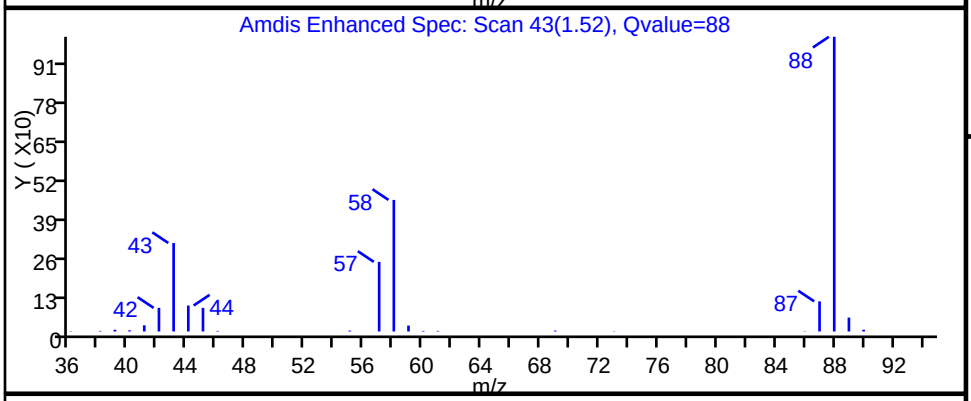
Data File: \\ChromNA\Pittsburgh\ChromData\CH731\20151013-8968.b\V1013016.D

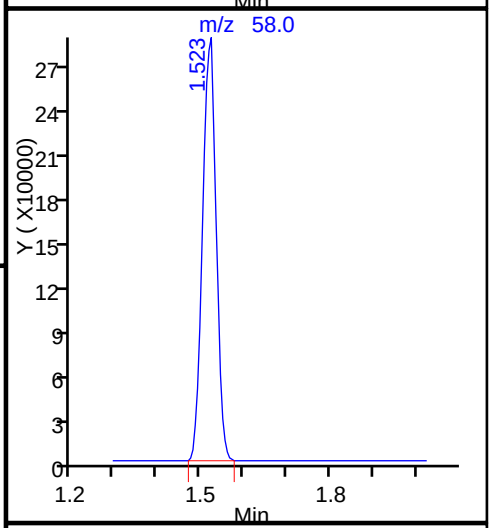
Injection Date:	13-Oct-2015 17:08:30	Instrument ID:	CH731		
Lims ID:	180-48435-D-3-A	Lab Sample ID:	180-48435-3		
Client ID:	HD-CW-15A-0/1-0				
Operator ID:	003200	ALS Bottle#:	15	Worklist Smp#:	16
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	BNA_CH731	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

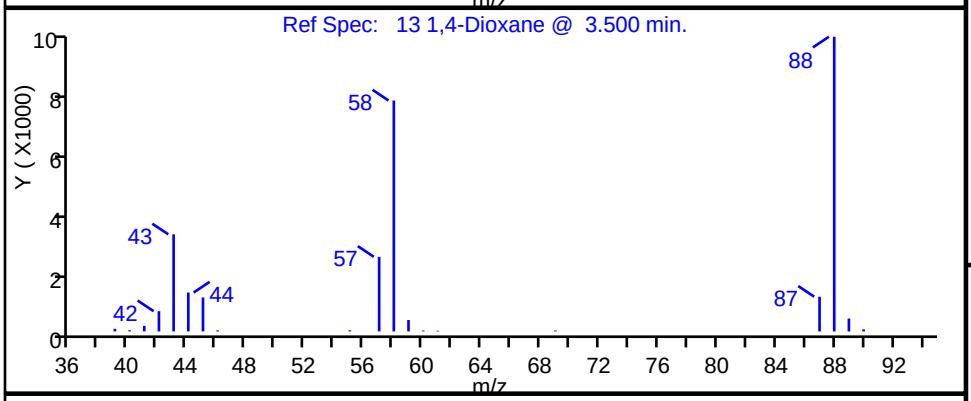
13 1,4-Dioxane, CAS: 123-91-1

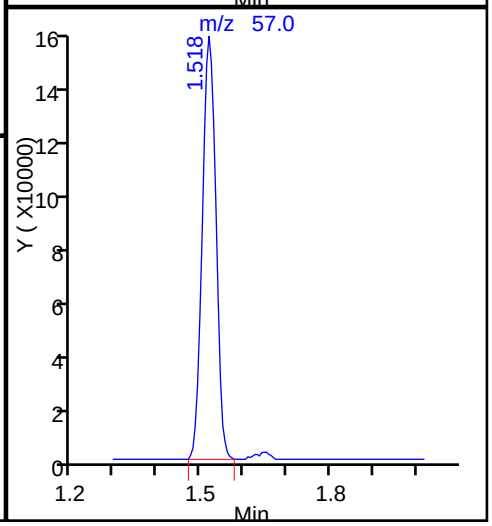


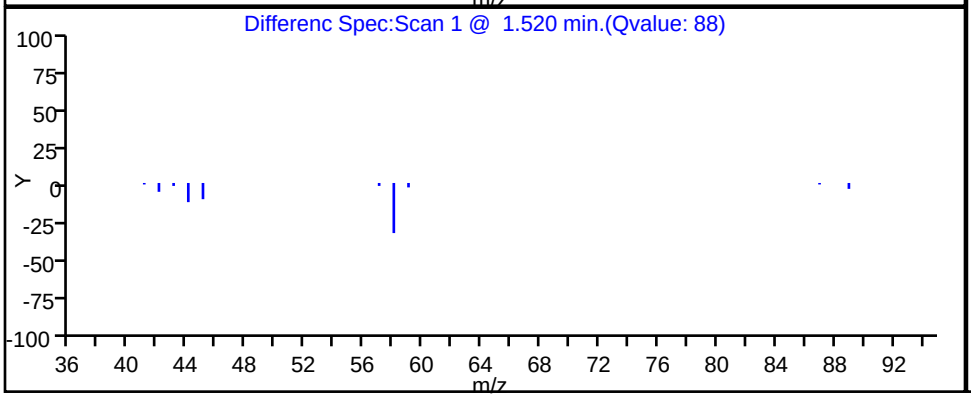












FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-48435-1

SDG No.:

Client Sample ID: HD-CW-15A-0/1-0 DL | Lab Sample ID: 180-48435-3 DL

Matrix: Water | Lab File ID: V1014008.D

Analysis Method: 8270D LL | Date Collected: 10/05/2015 06:15

Extract. Method: 3520C | Date Extracted: 10/08/2015 11:02

Sample wt/vol: 260(mL) | Date Analyzed: 10/14/2015 14:52

Con. Extract Vol.: 0.25(mL) | Dilution Factor: 15

Injection Volume: 2(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 156981 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	120	*	29	0.76

CAS NO.	SURROGATE	%REC	Q	LIMITS
321-60-8	2-Fluorobiphenyl	55		28-109
367-12-4	2-Fluorophenol (Surr)	43		20-105
118-79-6	2,4,6-Tribromophenol (Surr)	34		30-118
4165-60-0	Nitrobenzene-d5 (Surr)	46		27-114
4165-62-2	Phenol-d5 (Surr)	53		25-105
1718-51-0	Terphenyl-d14 (Surr)	65		20-118

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CH731\20151014-8999.b\V1014008.D
Lims ID: 180-48435-D-3-A Lab Sample ID: 180-48435-3
Client ID: HD-CW-15A-0/1-0
Sample Type: Client
Inject. Date: 14-Oct-2015 14:52:30 ALS Bottle#: 7 Worklist Smp#: 8
Injection Vol: 2.0 ul Dil. Factor: 15.0000
Sample Info: 180-0008999-008
Operator ID: 003200 Instrument ID: CH731

Method: \\ChromNA\Pittsburgh\ChromData\CH731\20151014-8999.b\BNA_CH731.m
Limit Group: BNA 8270D ICAL
Last Update: 15-Oct-2015 06:22:52 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: XAWRK013

First Level Reviewer: piccolinov Date: 15-Oct-2015 06:08:40

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.300	6.295	0.006	94	107506	8.00	
* 2 Naphthalene-d8	136	7.523	7.529	-0.006	100	452458	8.00	
* 3 Acenaphthene-d10	164	9.163	9.163	0.000	93	285406	8.00	
* 4 Phenanthrene-d10	188	10.547	10.552	-0.005	97	560158	8.00	
* 5 Chrysene-d12	240	14.148	14.153	-0.005	97	649275	8.00	
* 6 Perylene-d12	264	17.123	17.128	-0.005	98	637077	8.00	
$ 7 2-Fluorophenol	112	4.906	4.900	0.006	92	17975	1.14	
$ 8 Phenol-d5	99	5.937	5.937	0.000	95	29474	1.43	
$ 9 Nitrobenzene-d5	82	6.829	6.834	-0.005	91	26904	1.22	
$ 10 2-Fluorobiphenyl	172	8.517	8.522	-0.005	99	73192	1.47	
$ 11 2,4,6-Tribromophenol	330	9.895	9.895	0.000	92	7034	0.9061	
$ 12 Terphenyl-d14	244	12.358	12.363	-0.005	99	106635	1.73	
13 1,4-Dioxane	88	1.487	1.487	0.000	89	90847	16.7	

Reagents:

SVTAPITINTRNi_00009 Amount Added: 1.00 Units: uL Run Reagent

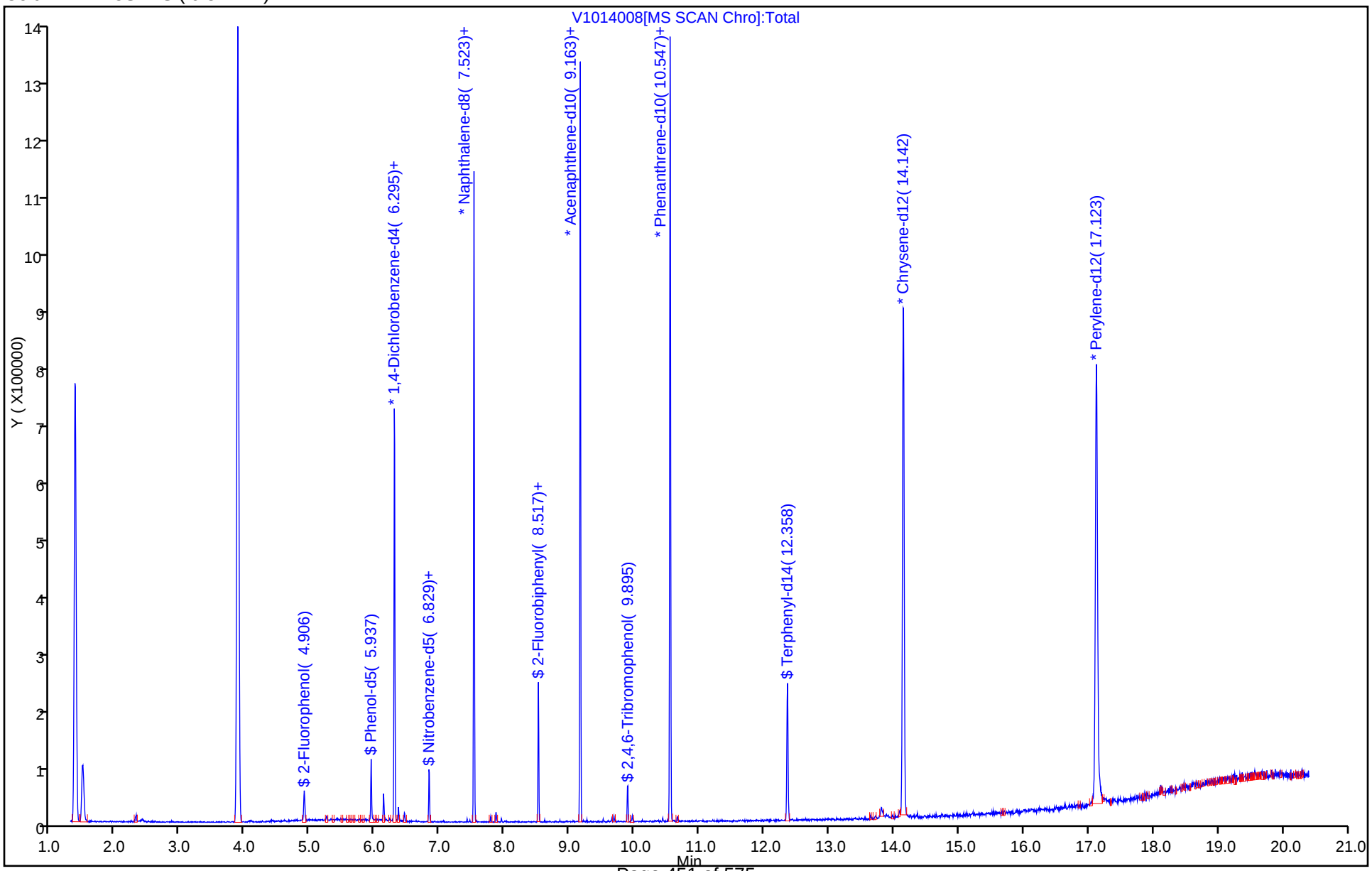
Report Date: 15-Oct-2015 06:23:02 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CH731\20151014-8999.b\V1014008.D

Injection Date:	14-Oct-2015 14:52:30	Instrument ID:	CH731	Operator ID:	003200
Lims ID:	180-48435-D-3-A	Lab Sample ID:	180-48435-3	Worklist Smp#:	8
Client ID:	HD-CW-15A-0/1-0				
Injection Vol:	2.0 ul	Dil. Factor:	15.0000	ALS Bottle#:	7
Method:	BNA_CH731	Limit Group:	BNA 8270D ICAL		

Column: Rxi-5SilMS (0.32 mm)

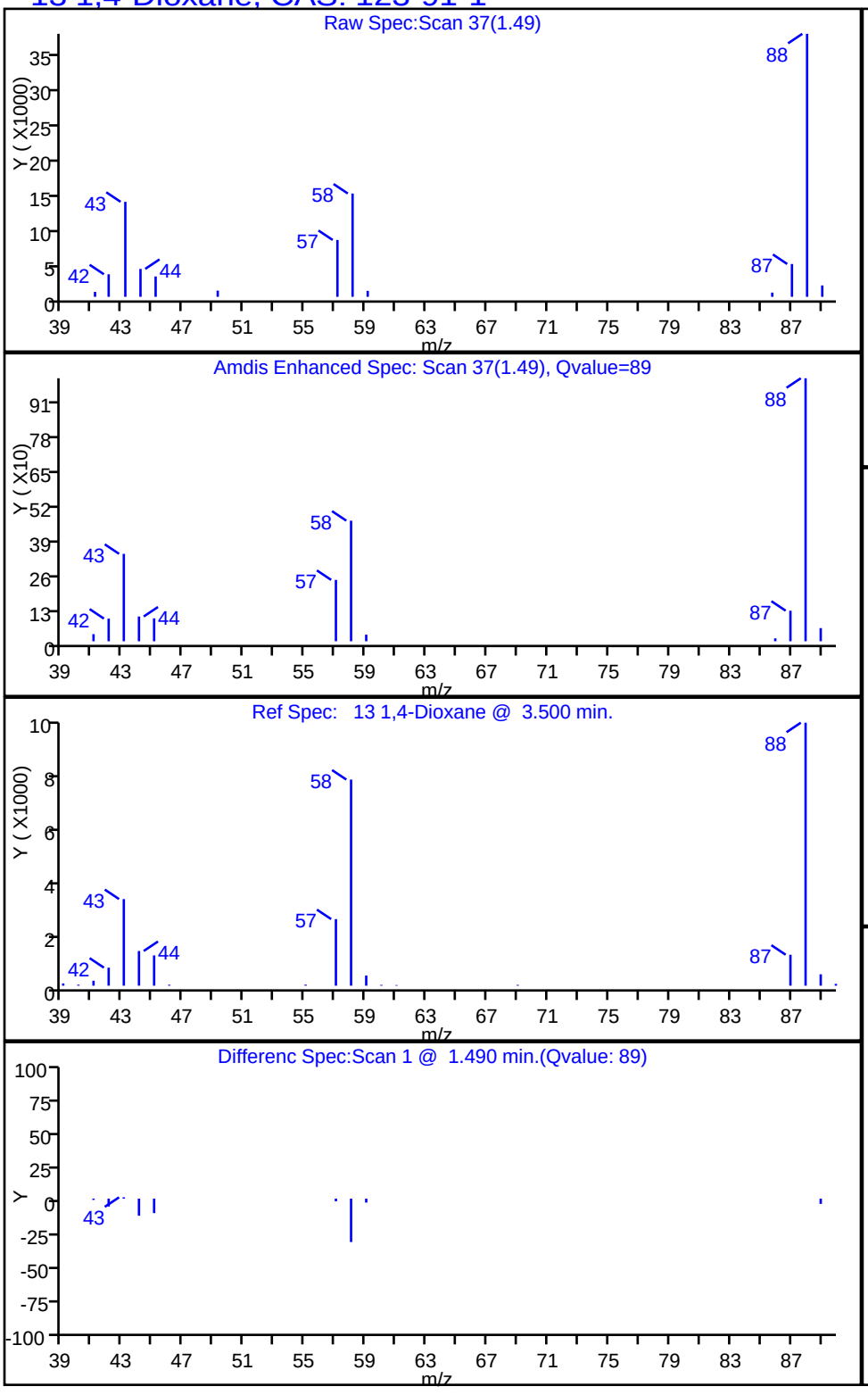


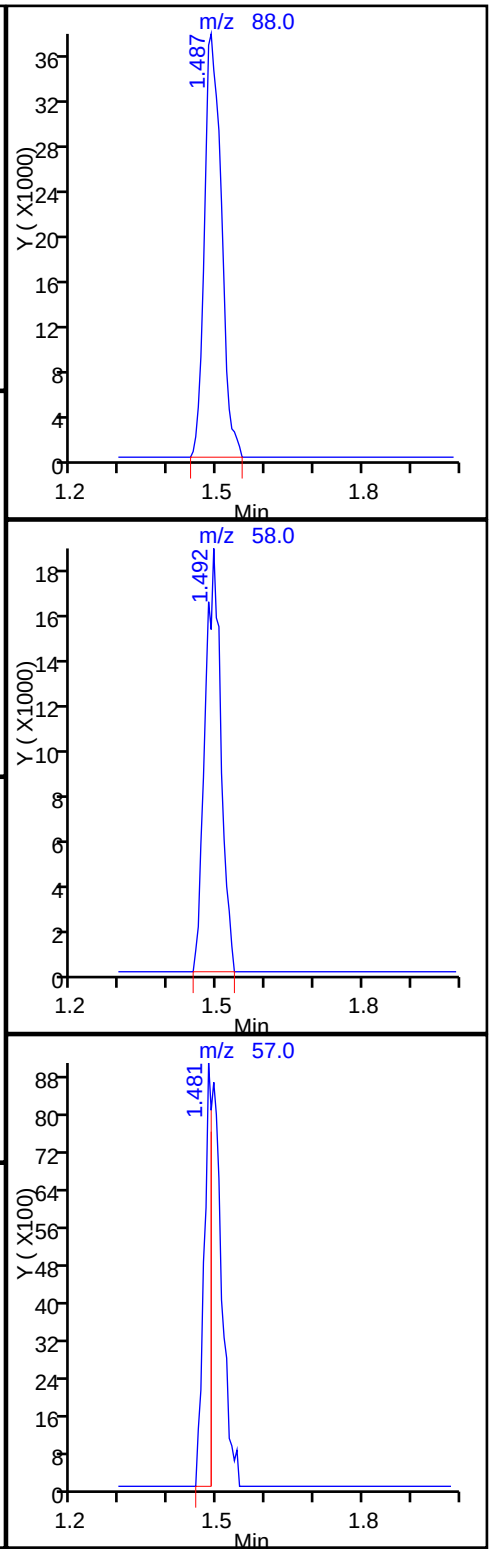
Report Date: 15-Oct-2015 06:23:02 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CH731\20151014-8999.b\V1014008.D		
Injection Date:	14-Oct-2015 14:52:30	Instrument ID:	CH731
Lims ID:	180-48435-D-3-A	Lab Sample ID:	180-48435-3
Client ID:	HD-CW-15A-0/1-0		
Operator ID:	003200	ALS Bottle#:	7 Worklist Smp#: 8
Injection Vol:	2.0 ul	Dil. Factor:	15.0000
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.: 180-48435-1 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.: 180-48435-1 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.: 180-48435-1 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.: 180-48435-1 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.: 180-48435-1 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.: 180-48435-1 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.: 180-48435-1 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.: 180-48435-1 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.: 180-48435-1 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.: 180-48435-1 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.: 180-48435-1 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.: 180-48435-1 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.: 180-48435-1 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

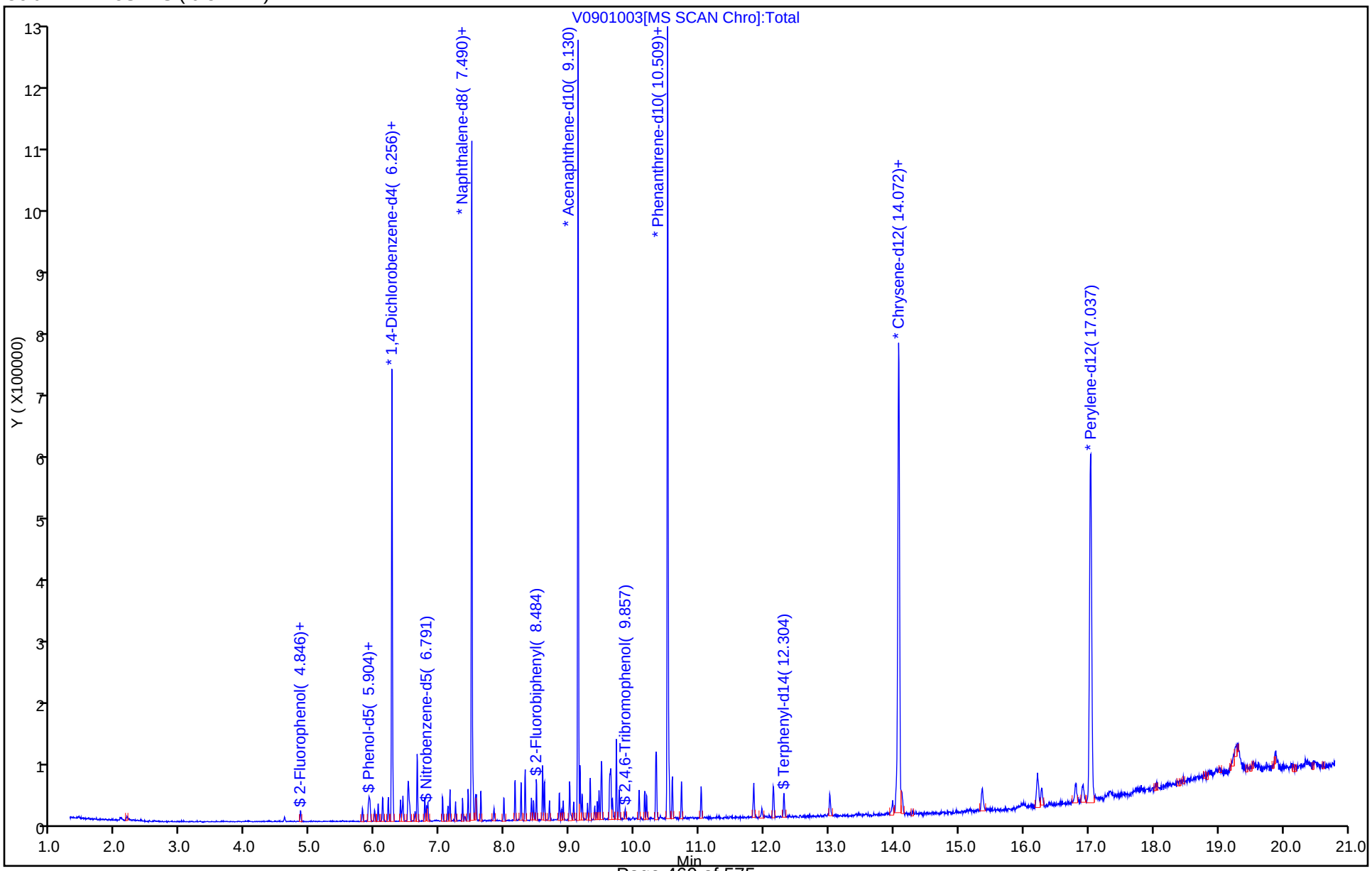
Report Date: 01-Sep-2015 04:26:26 Chrom Revision: 2.2 23-Jul-2015 08:26:08

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

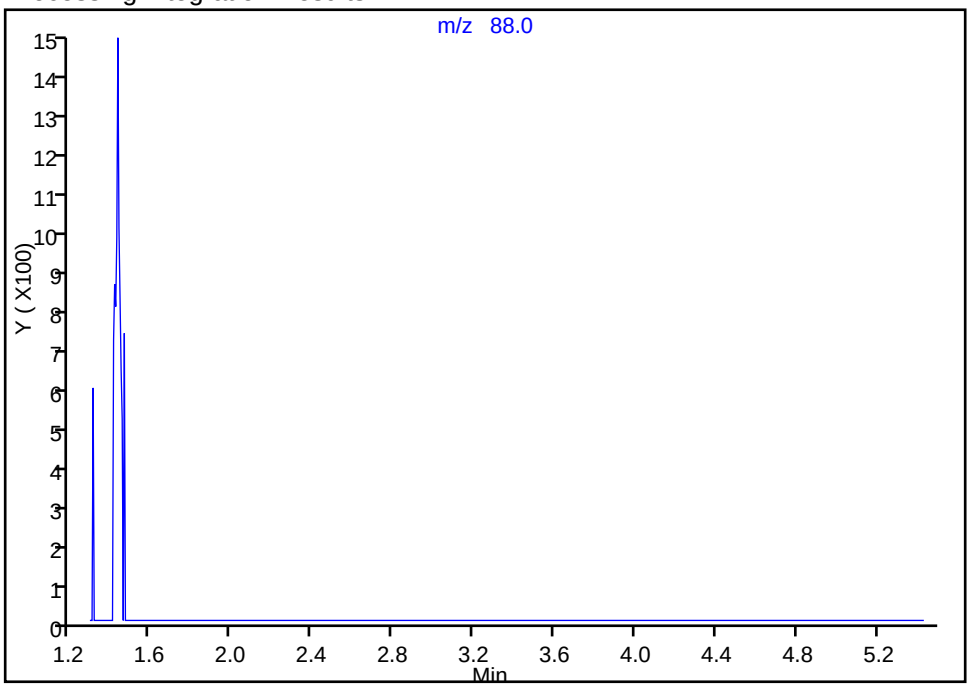
TestAmerica Pittsburgh

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

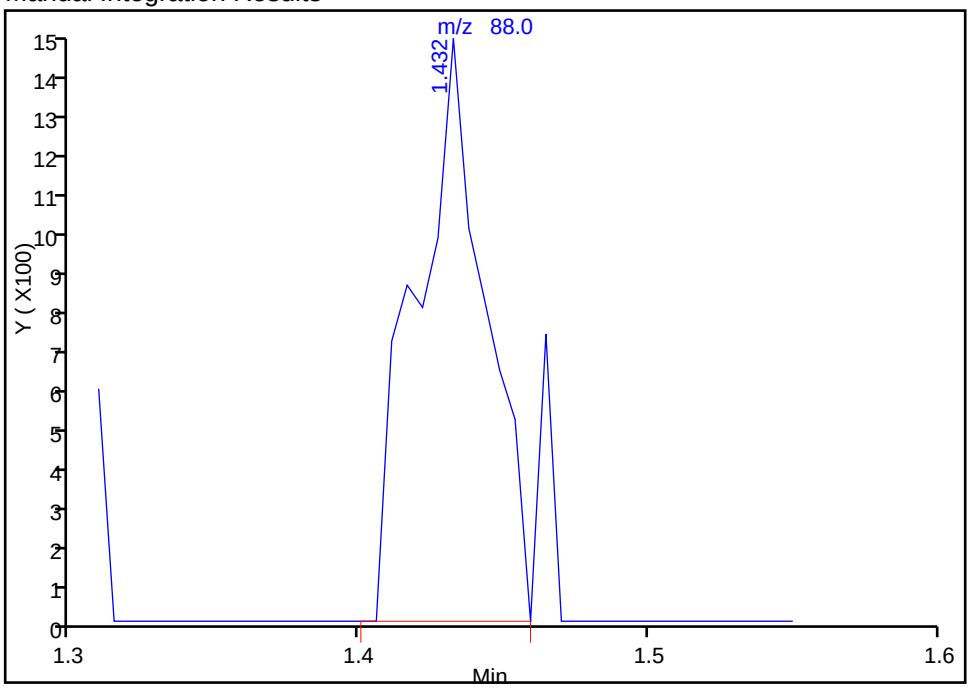
Not Detected
Expected RT: 1.43

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

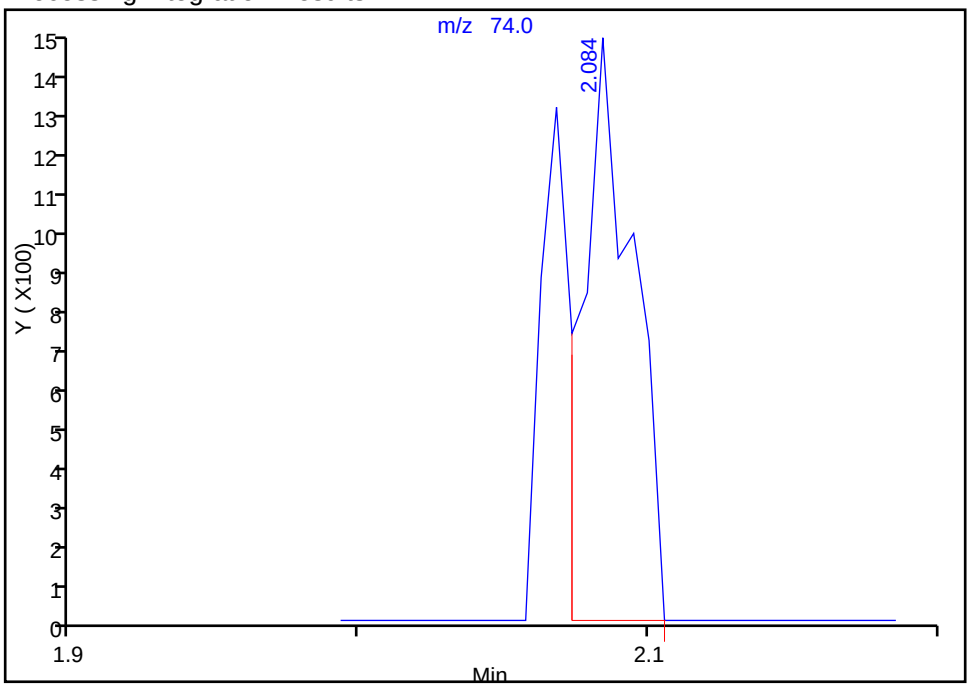
TestAmerica Pittsburgh

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

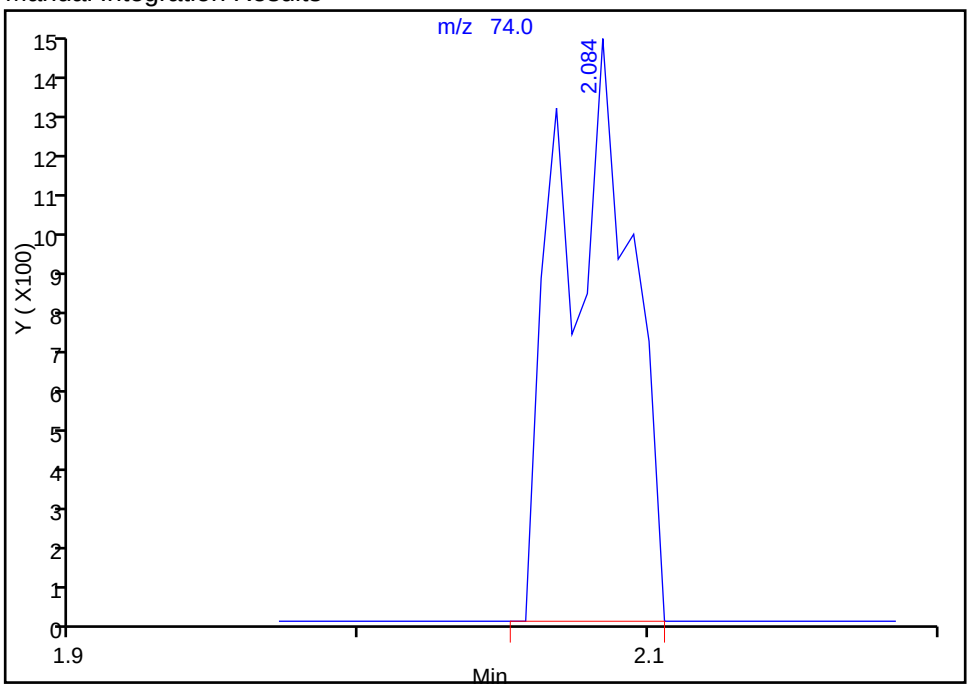
Processing Integration Results

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

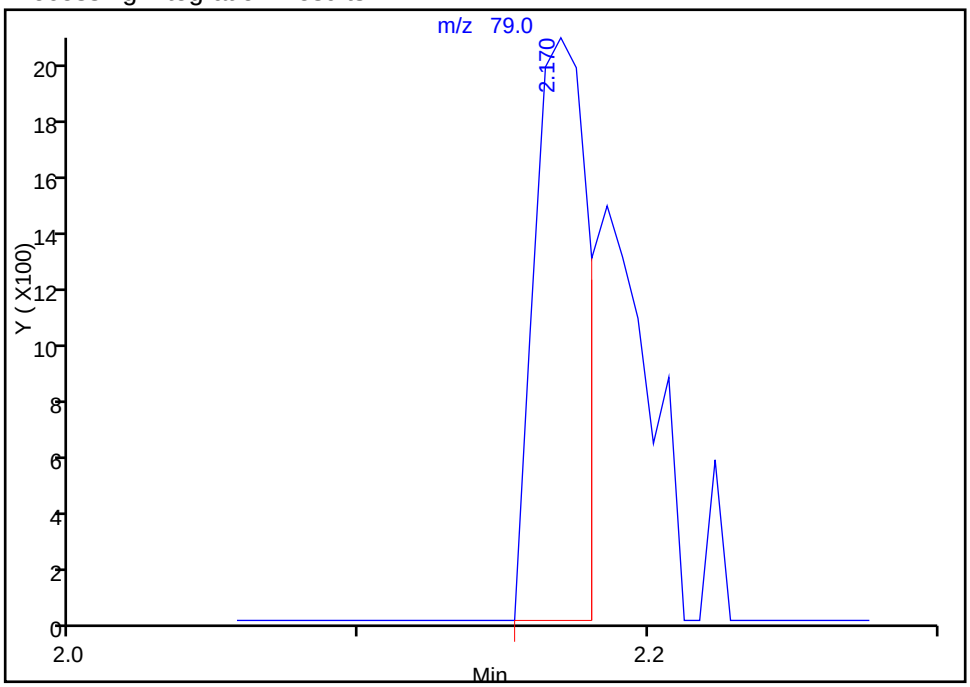
TestAmerica Pittsburgh

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

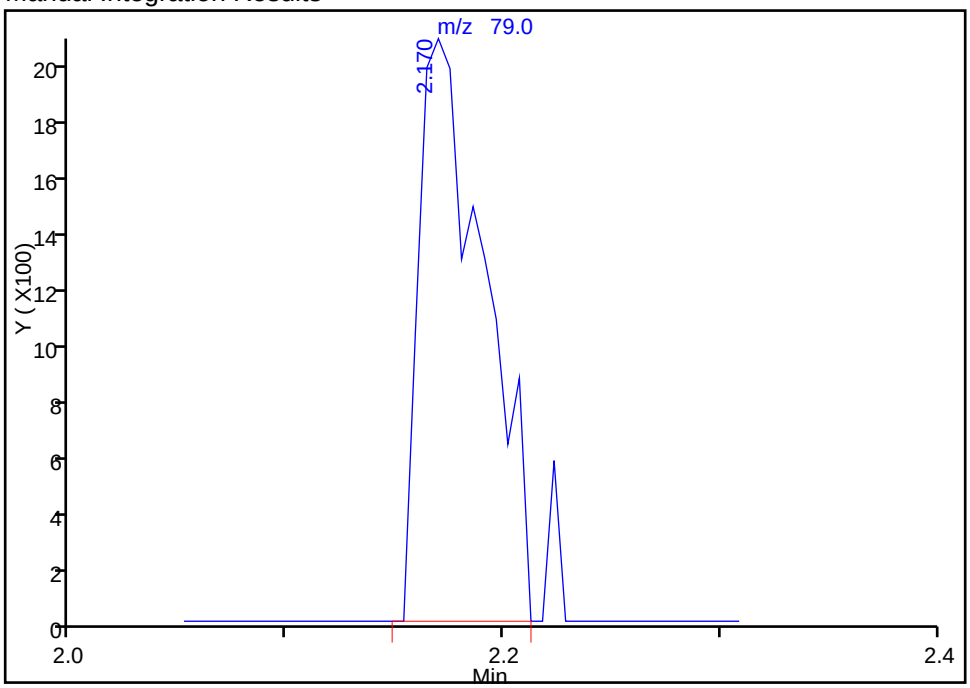
Processing Integration Results

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

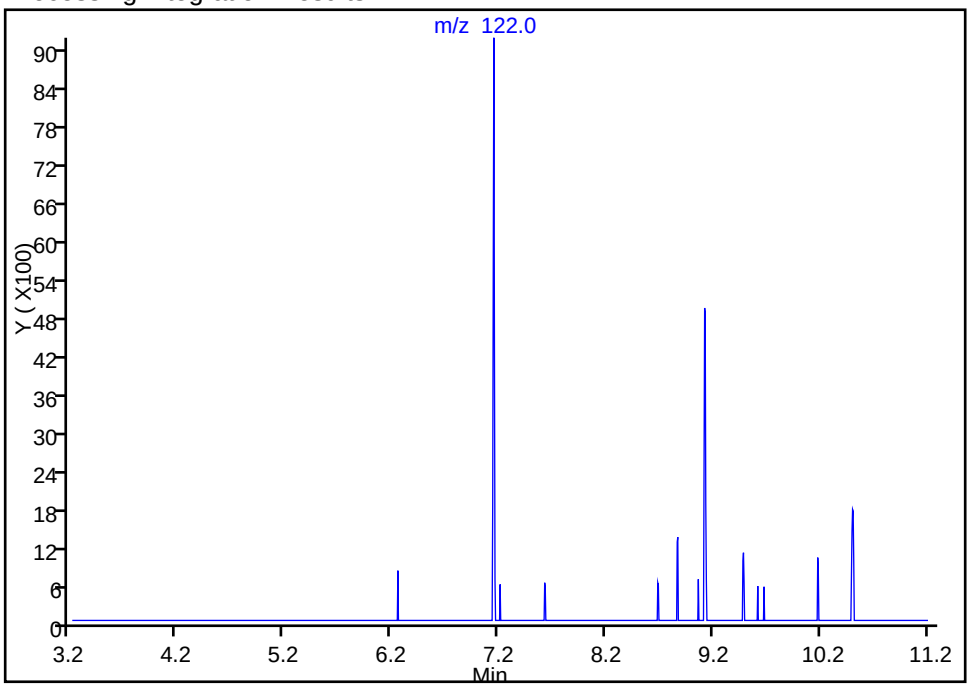
TestAmerica Pittsburgh

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

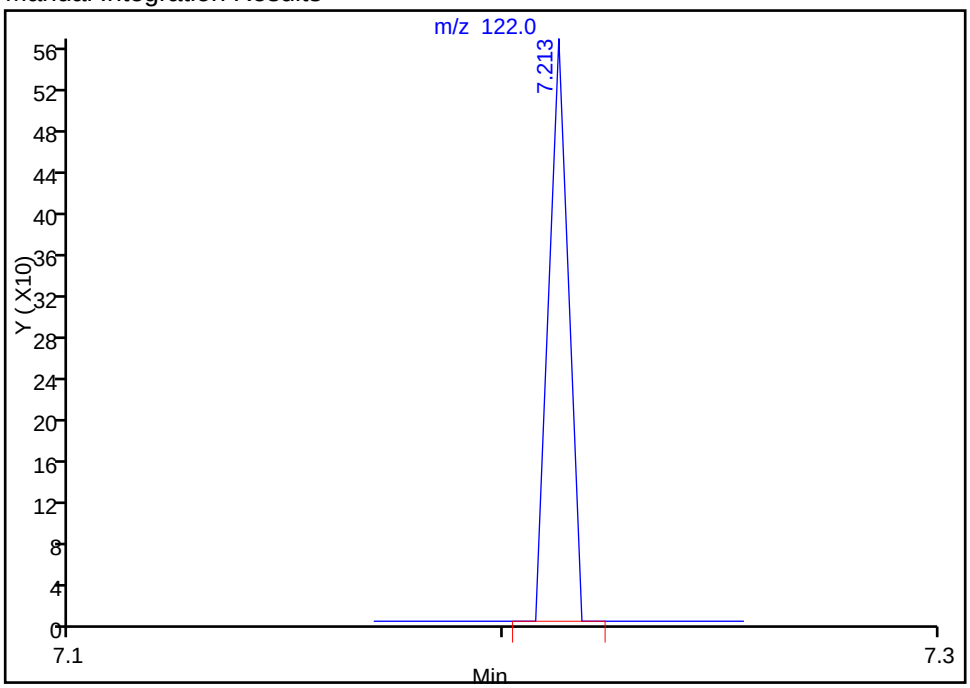
Not Detected
Expected RT: 7.21

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

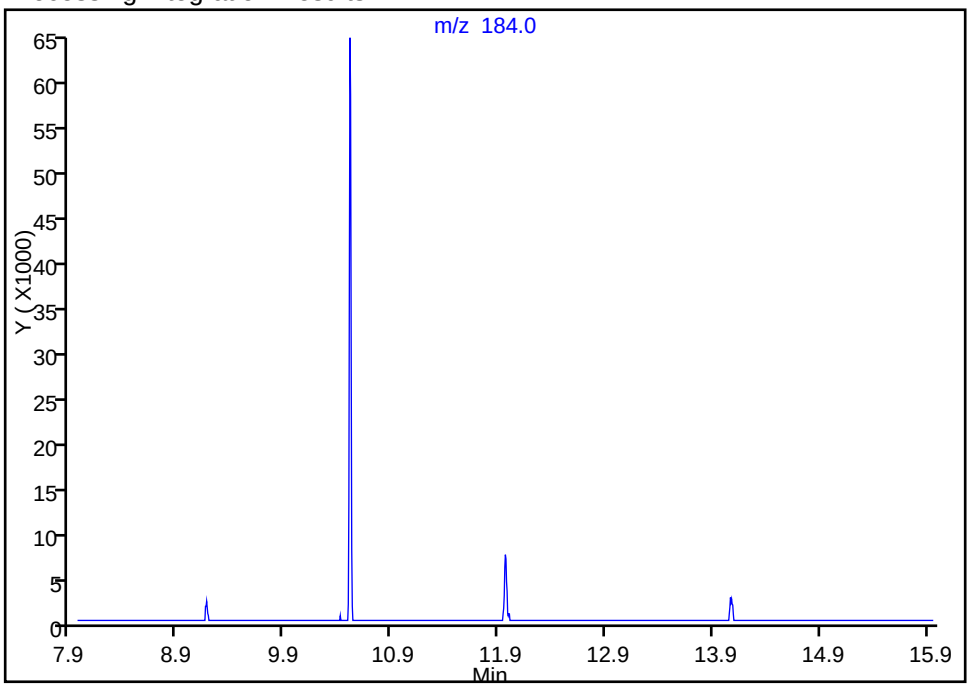
TestAmerica Pittsburgh

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

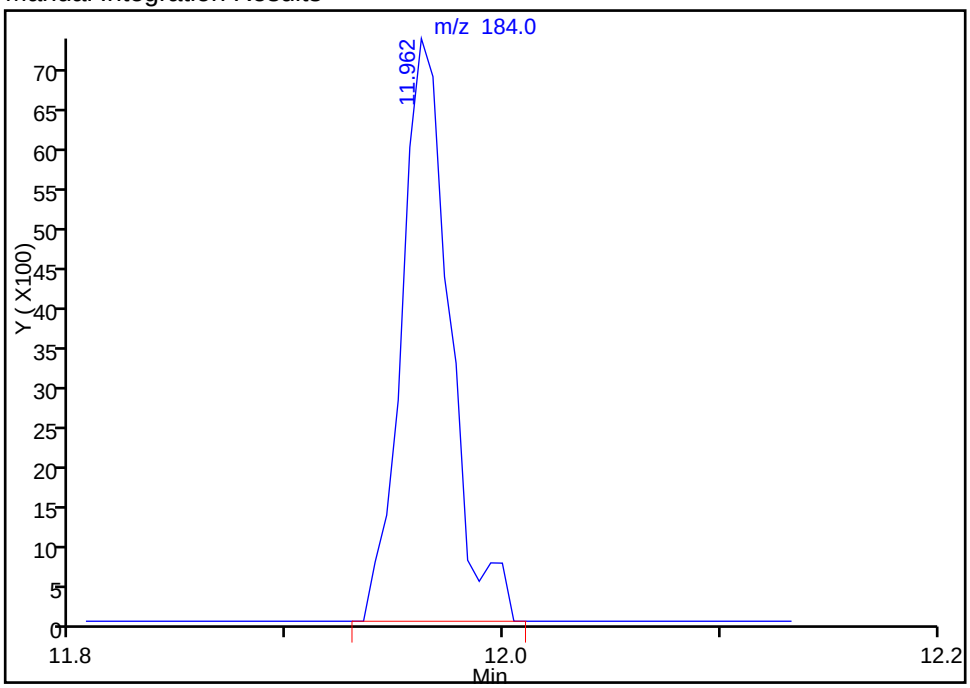
Not Detected
Expected RT: 11.96

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

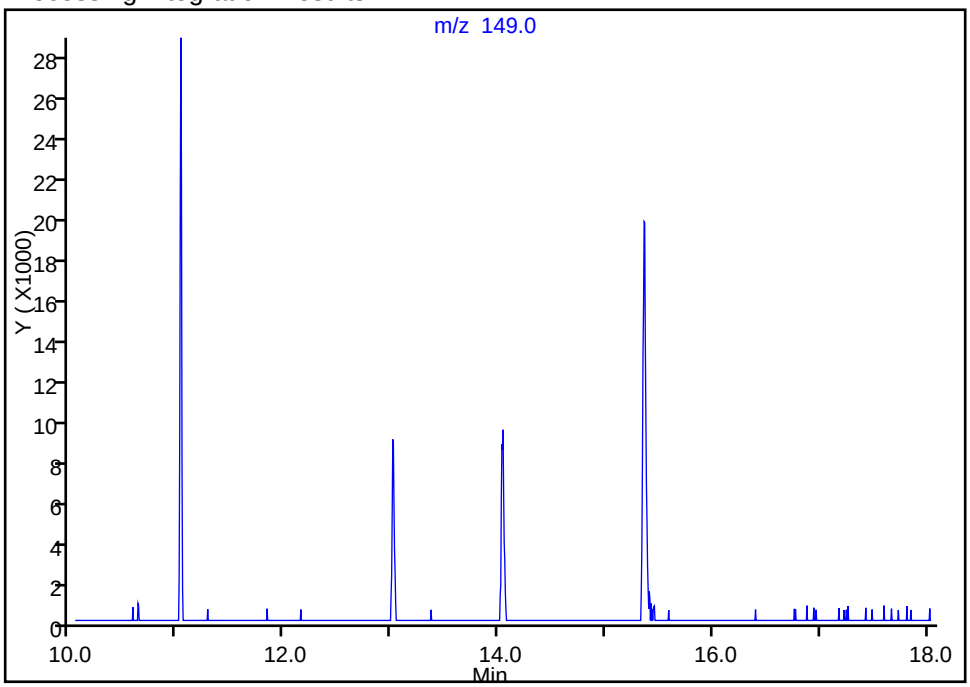
TestAmerica Pittsburgh

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

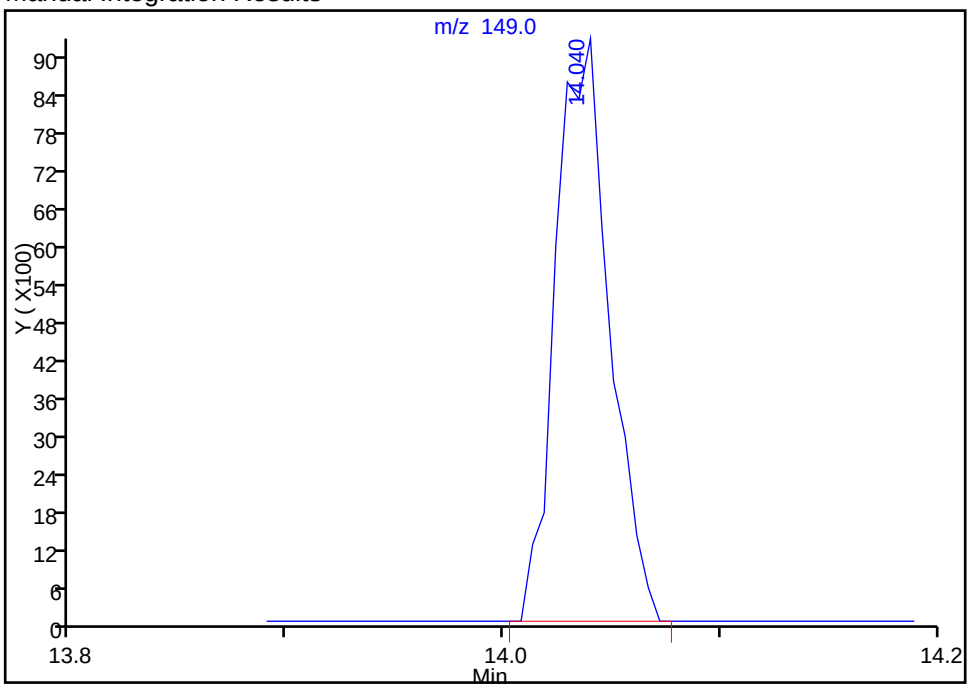
Processing Integration Results

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

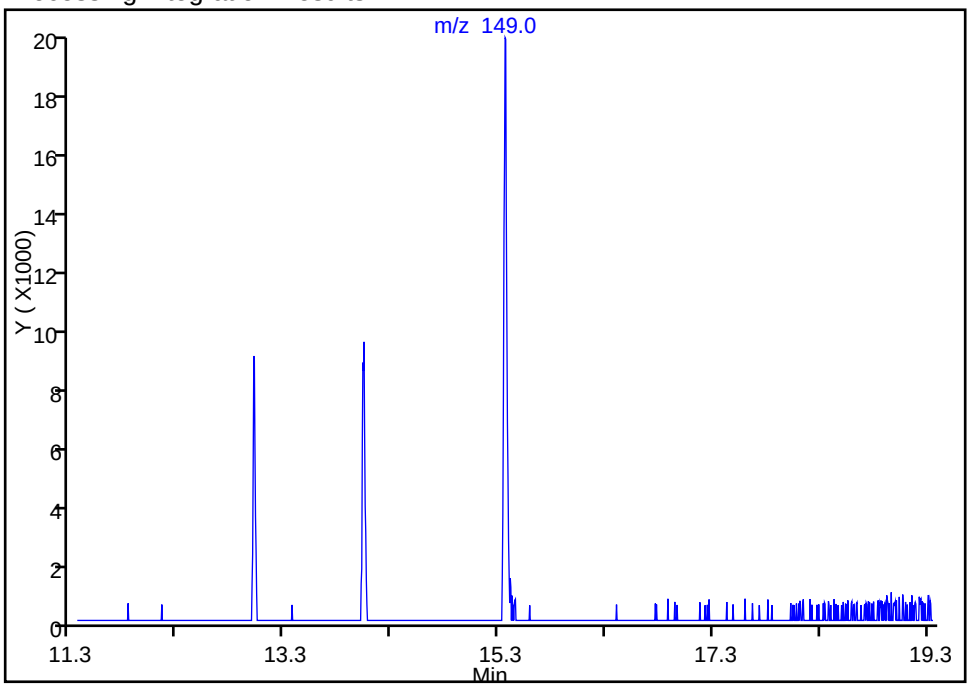
TestAmerica Pittsburgh

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

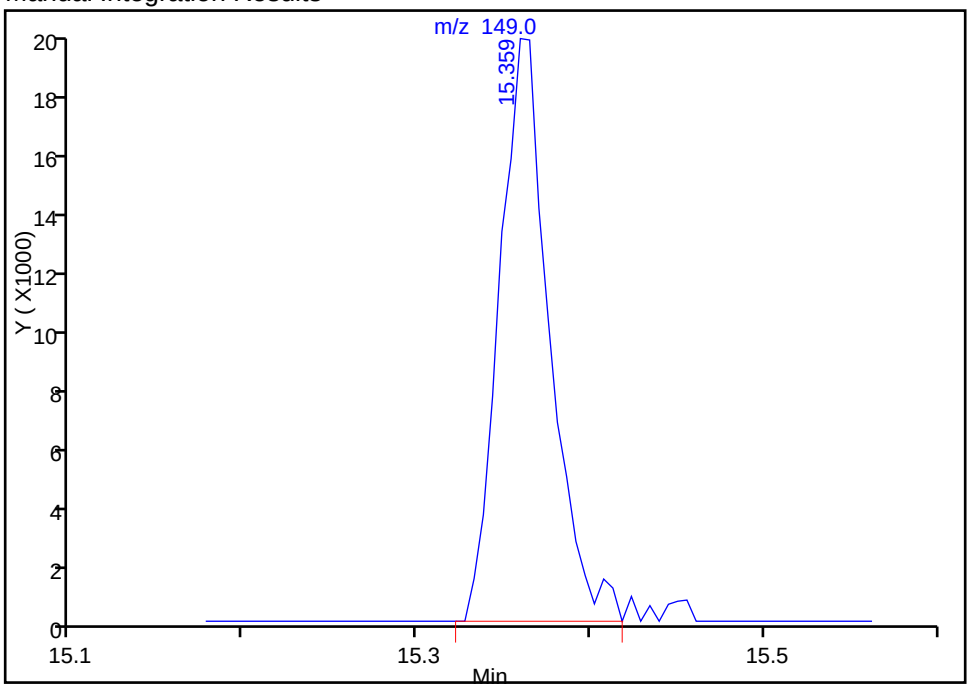
Not Detected
Expected RT: 15.36

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

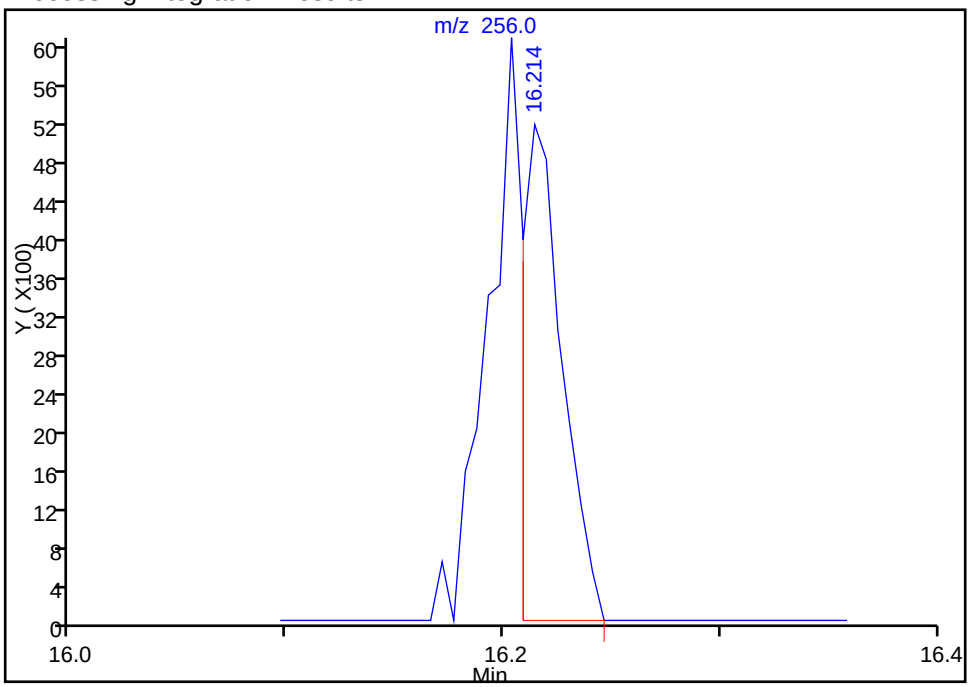
TestAmerica Pittsburgh

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

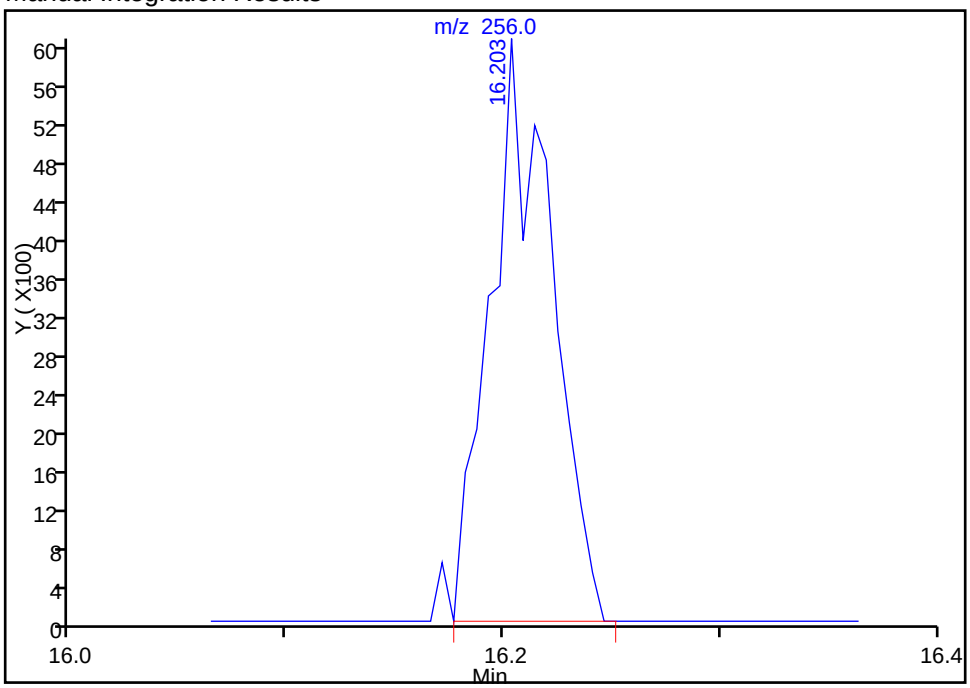
Processing Integration Results

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

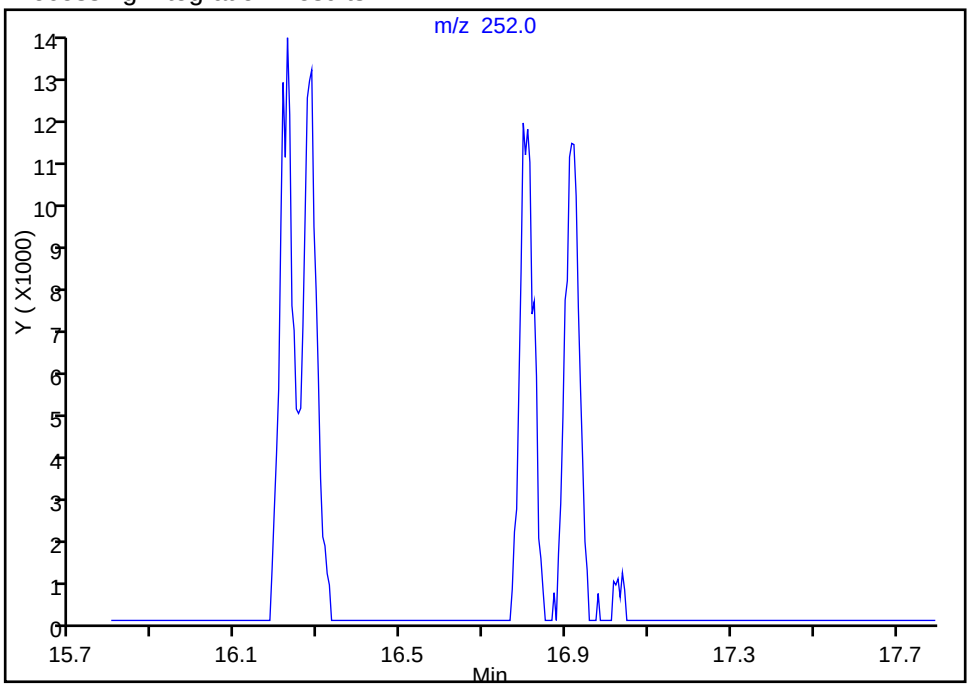
TestAmerica Pittsburgh

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

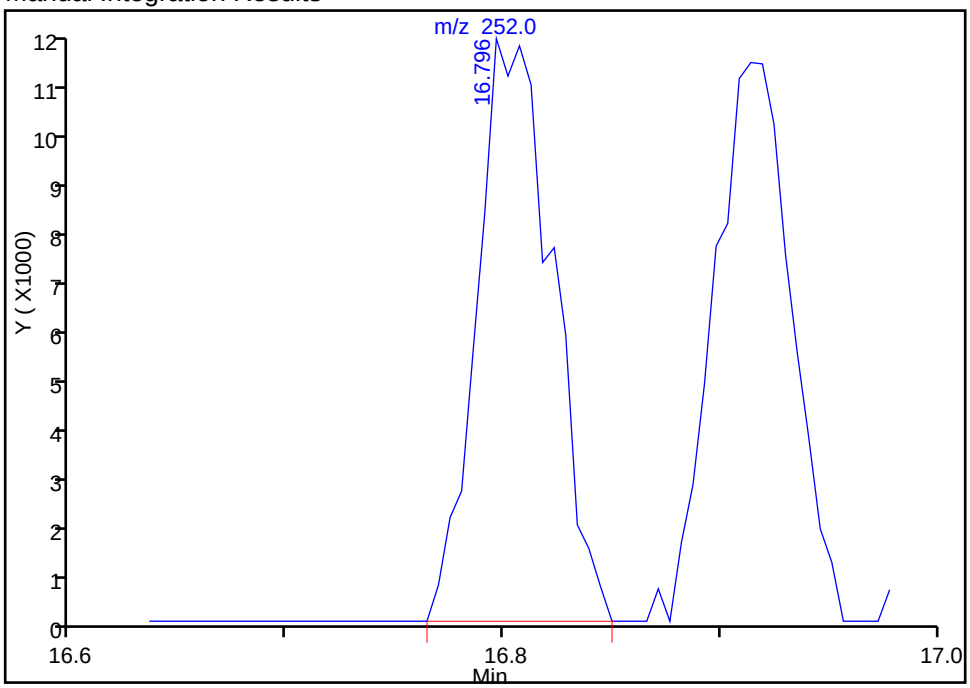
Not Detected
Expected RT: 16.80

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

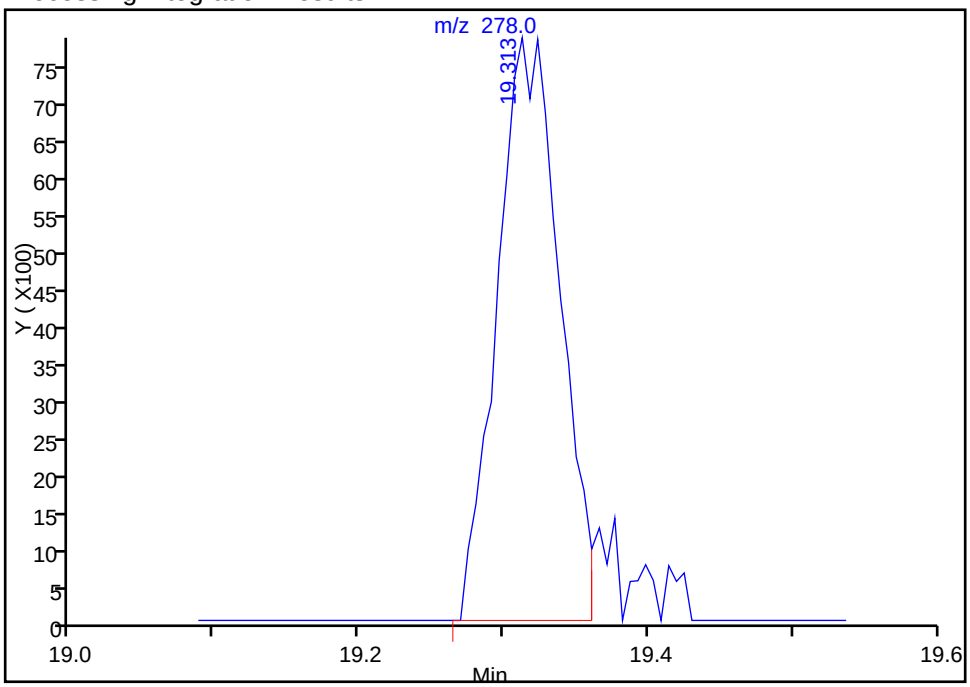
TestAmerica Pittsburgh

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

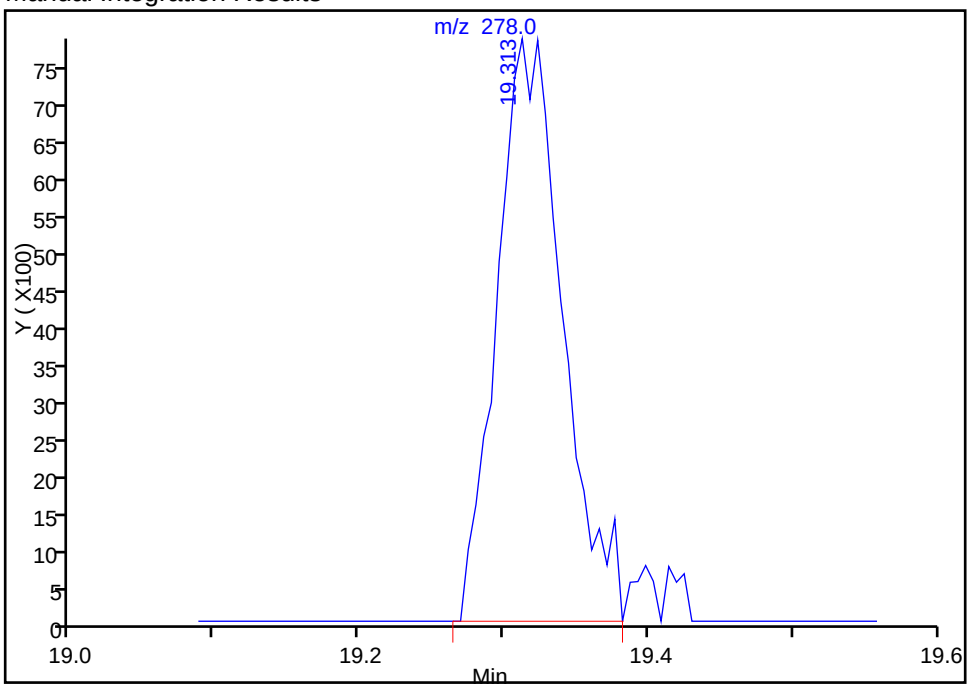
Processing Integration Results

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

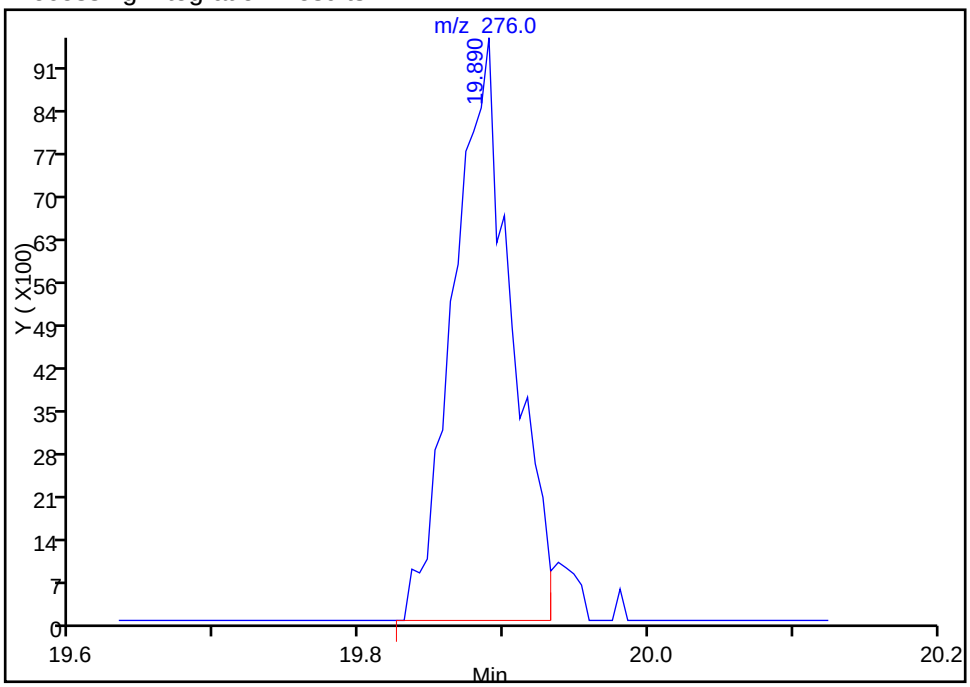
TestAmerica Pittsburgh

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

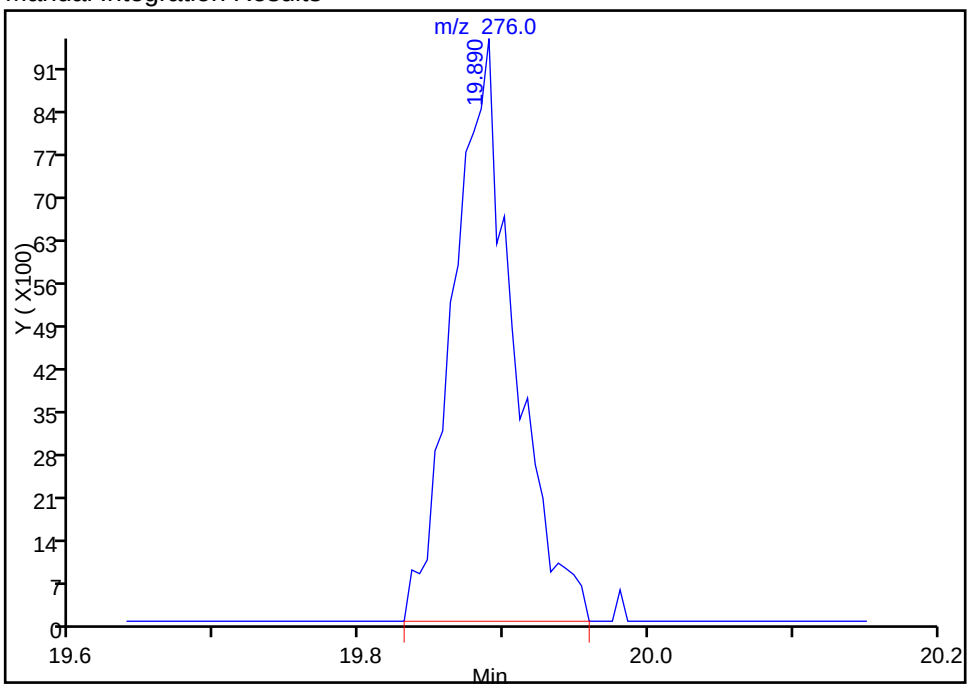
Processing Integration Results

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

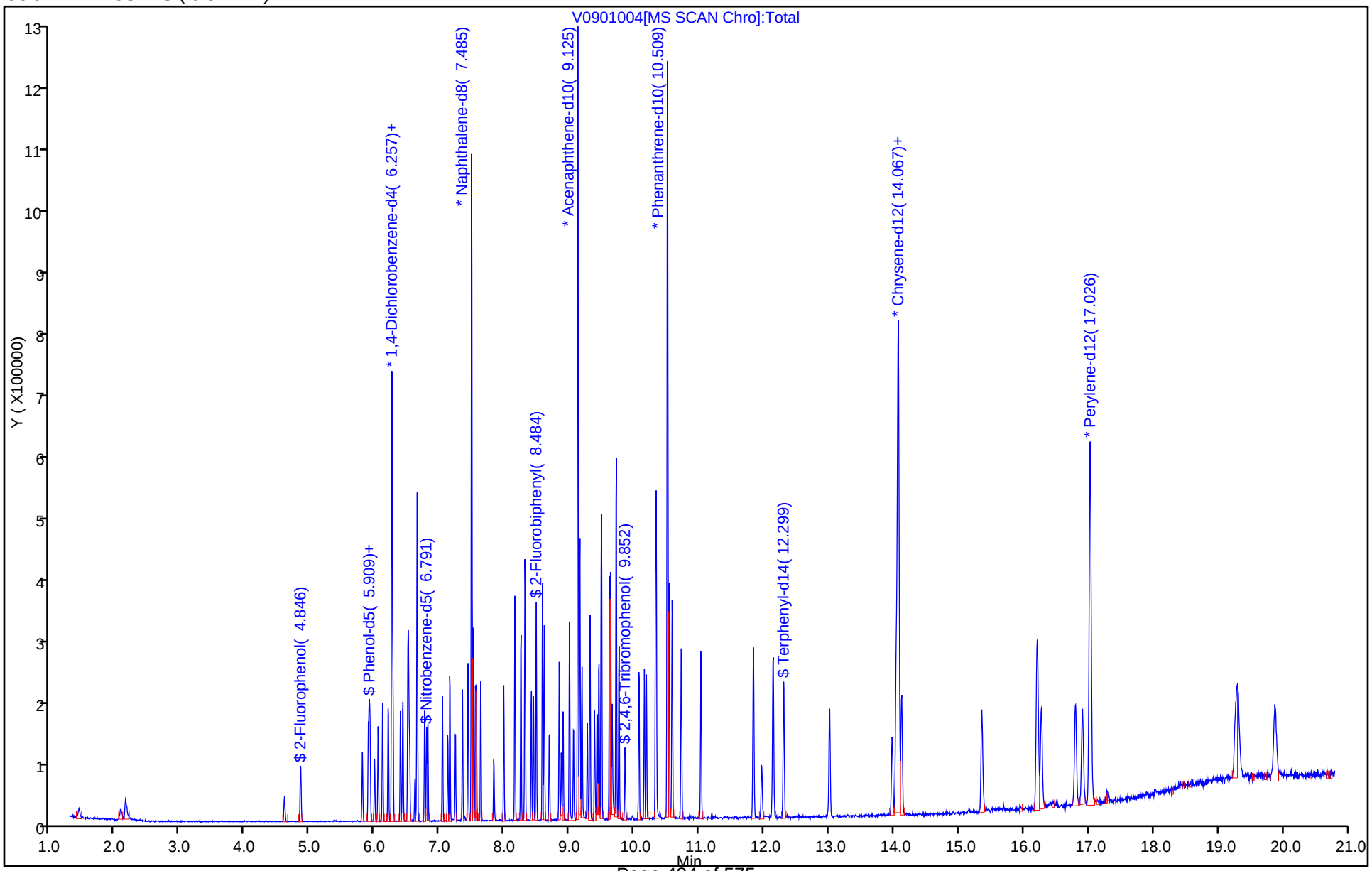
Report Date: 01-Sep-2015 04:26:31 Chrom Revision: 2.2 23-Jul-2015 08:26:08

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

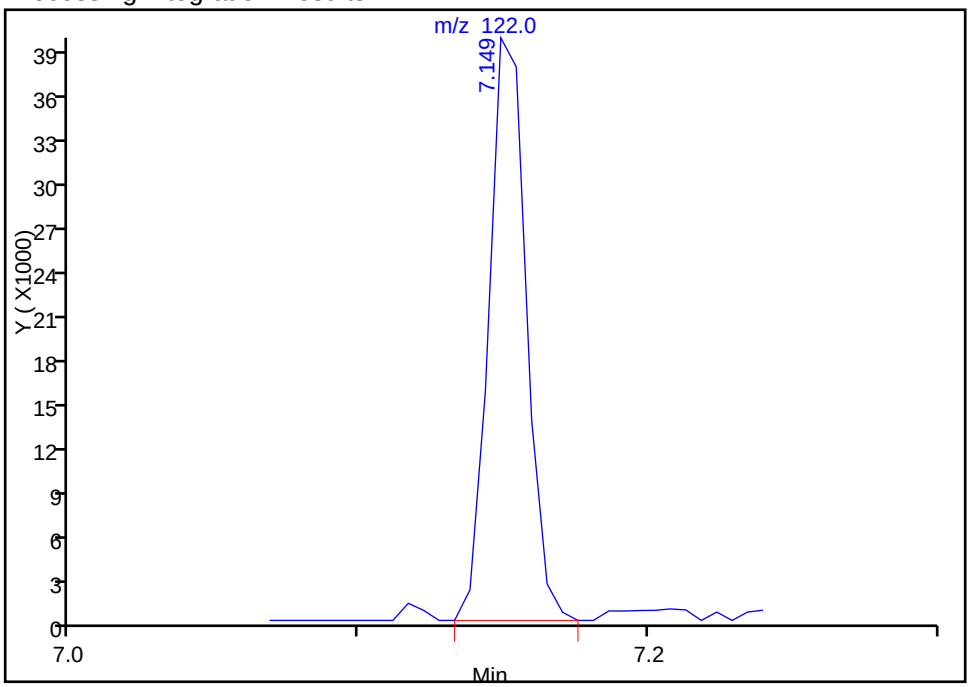
TestAmerica Pittsburgh

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

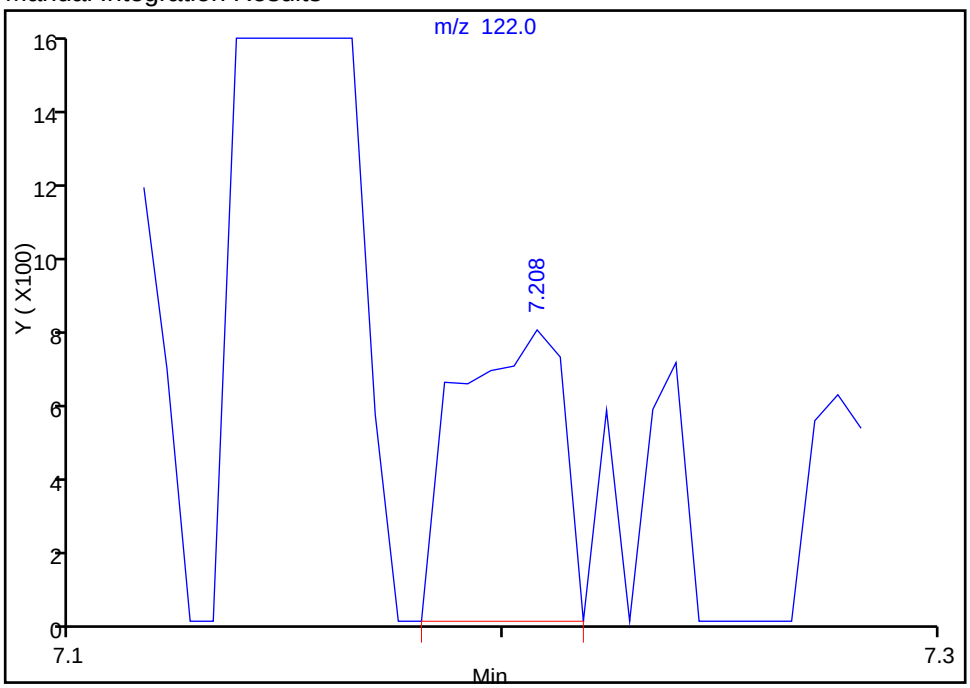
Processing Integration Results

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

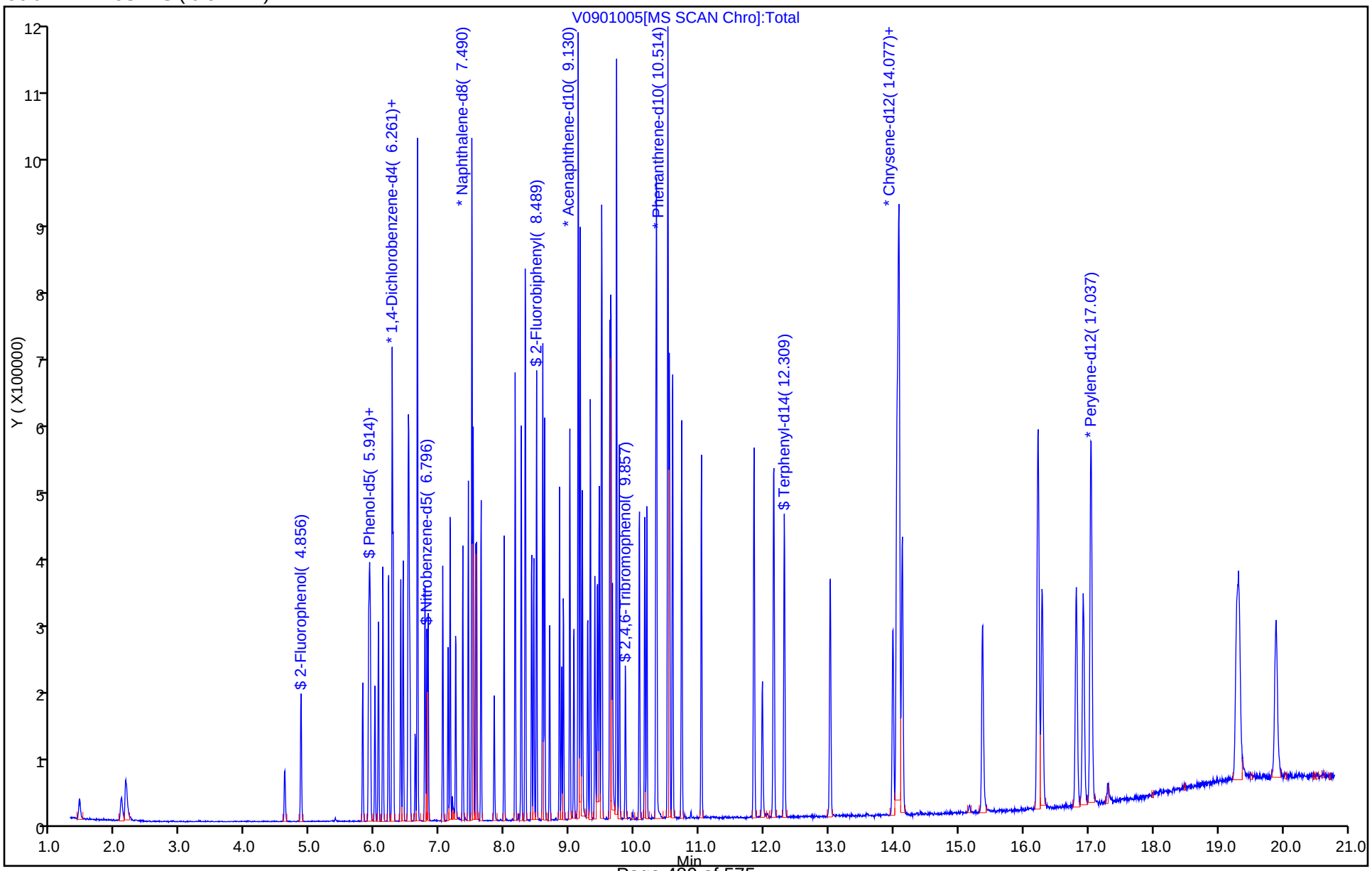
Report Date: 01-Sep-2015 04:26:34 Chrom Revision: 2.2 23-Jul-2015 08:26:08

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

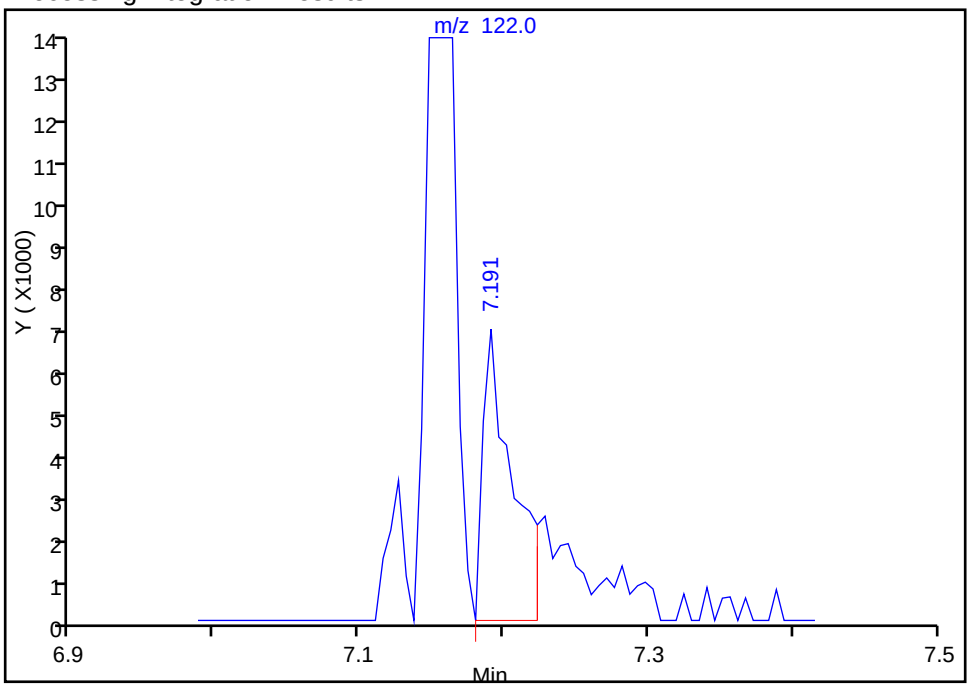
TestAmerica Pittsburgh

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

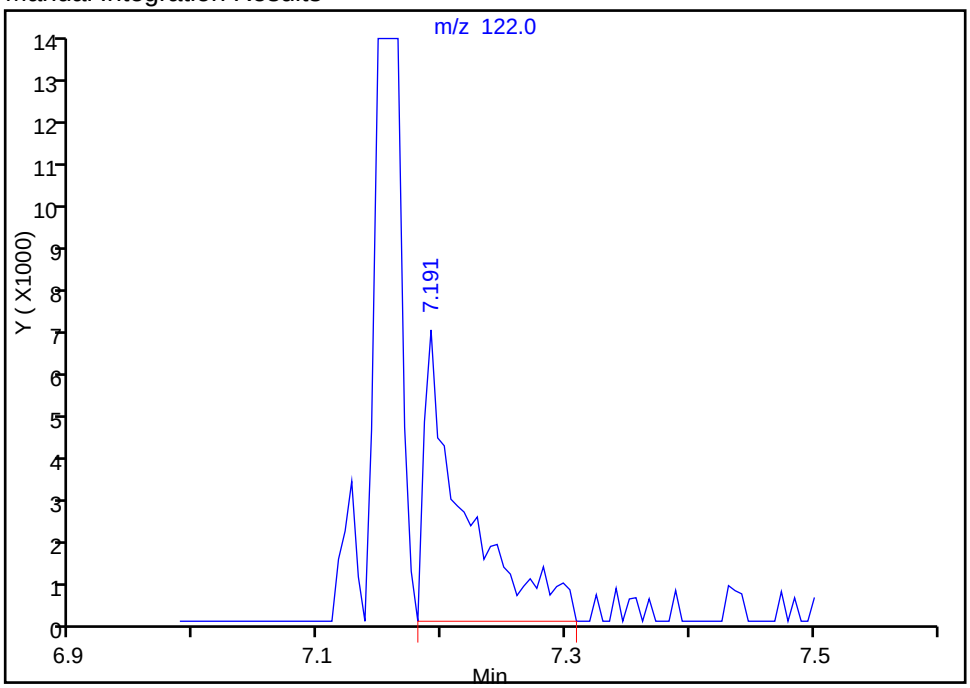
Processing Integration Results

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

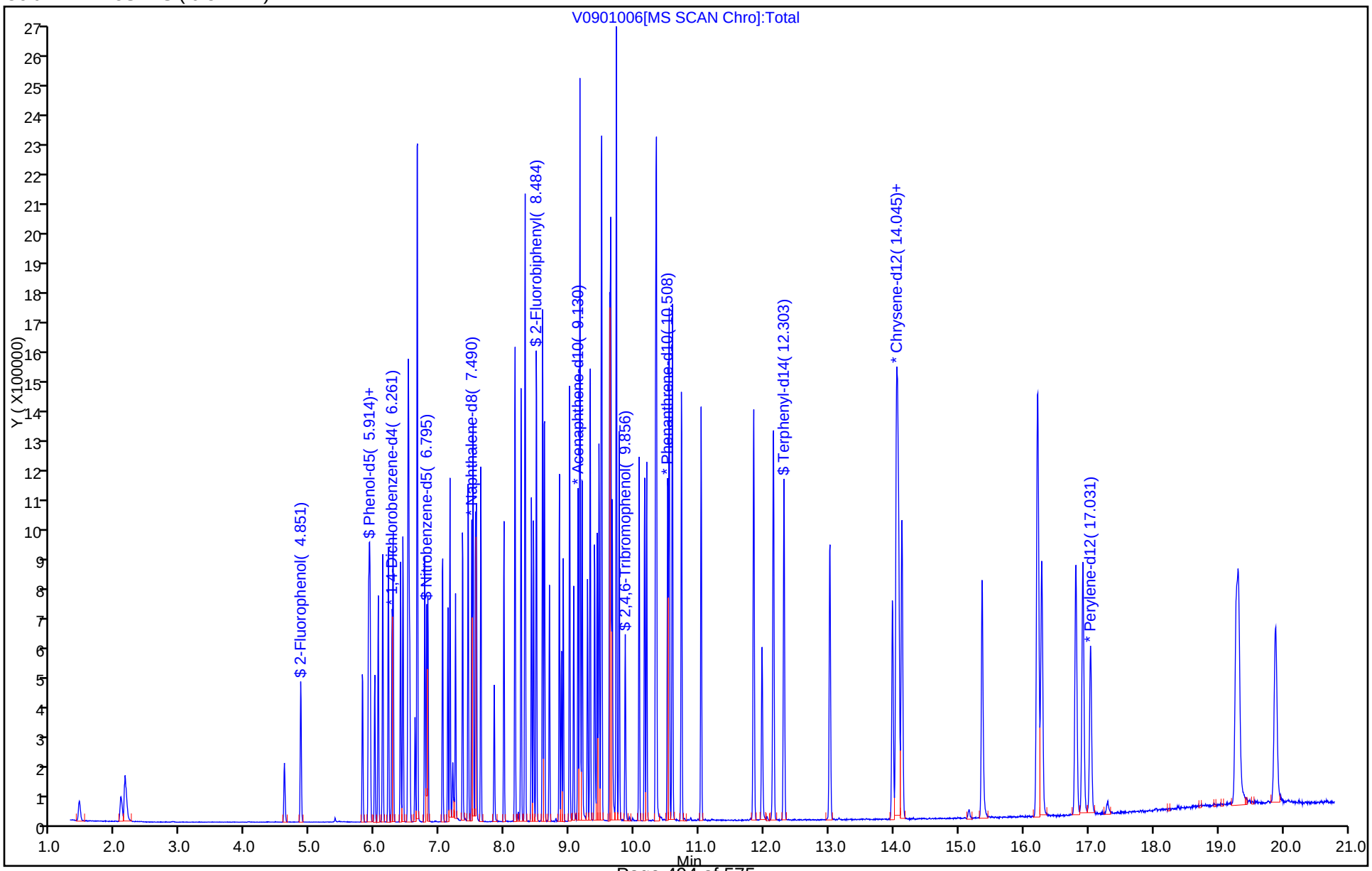
Report Date: 01-Sep-2015 04:26:37 Chrom Revision: 2.2 23-Jul-2015 08:26:08

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

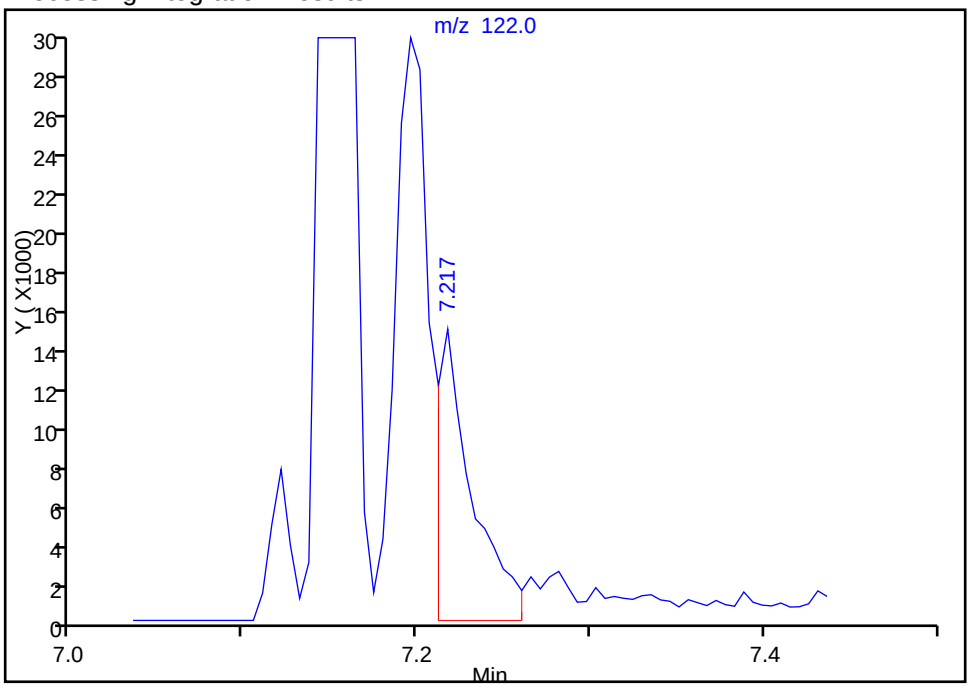
TestAmerica Pittsburgh

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

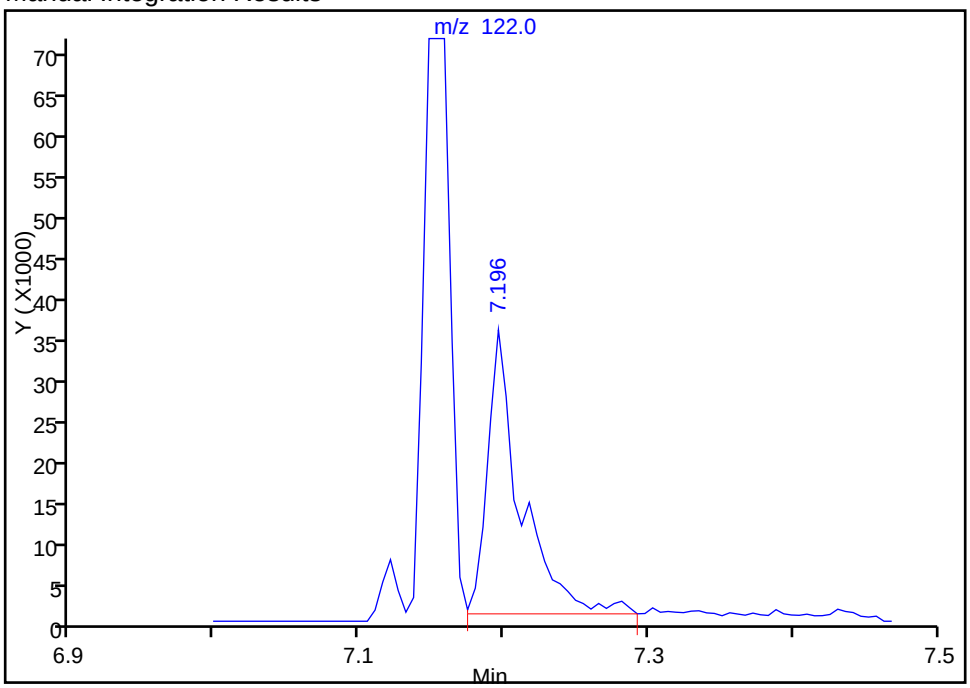
Processing Integration Results

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

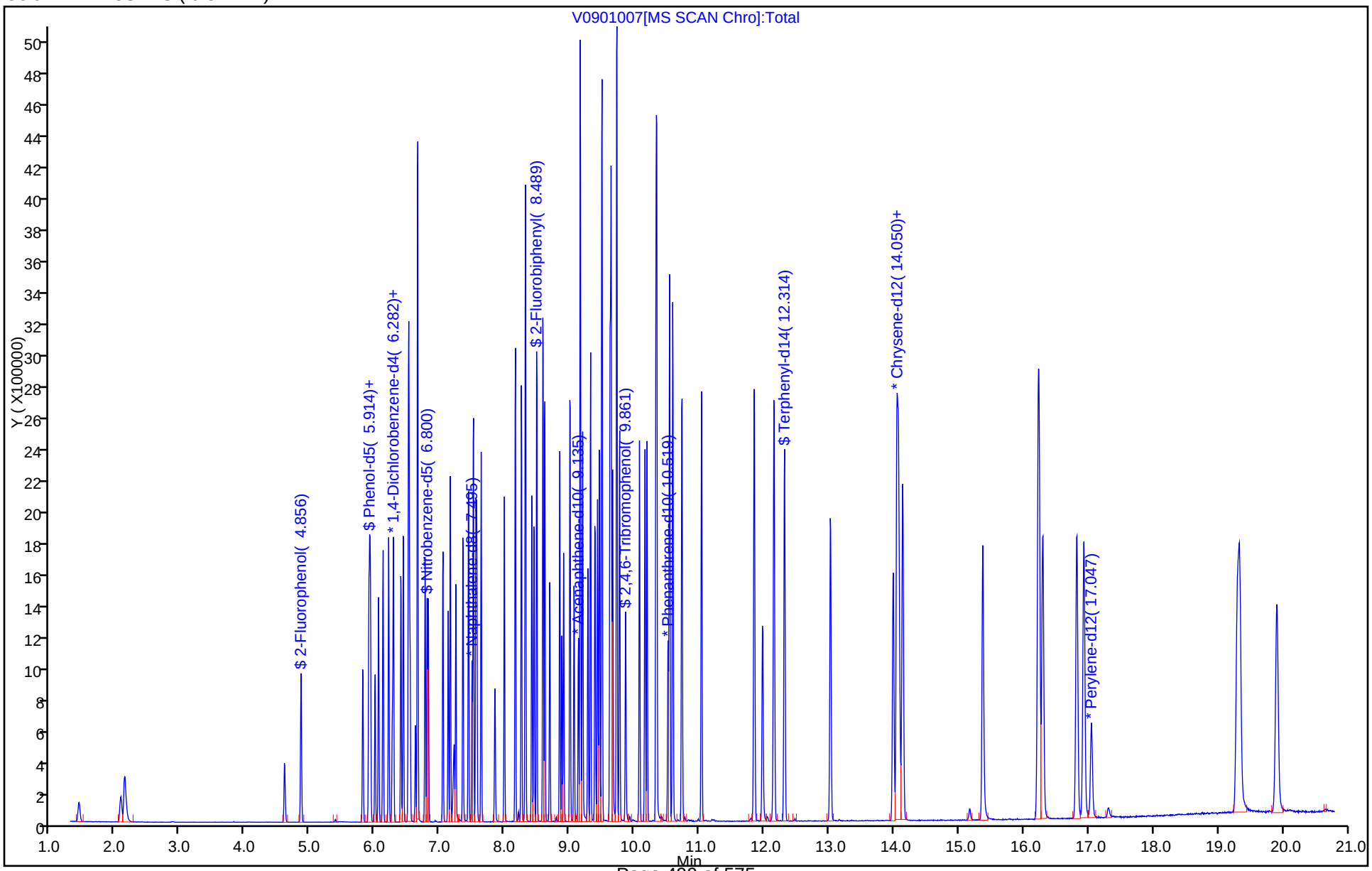
Report Date: 01-Sep-2015 04:26:40 Chrom Revision: 2.2 23-Jul-2015 08:26:08

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

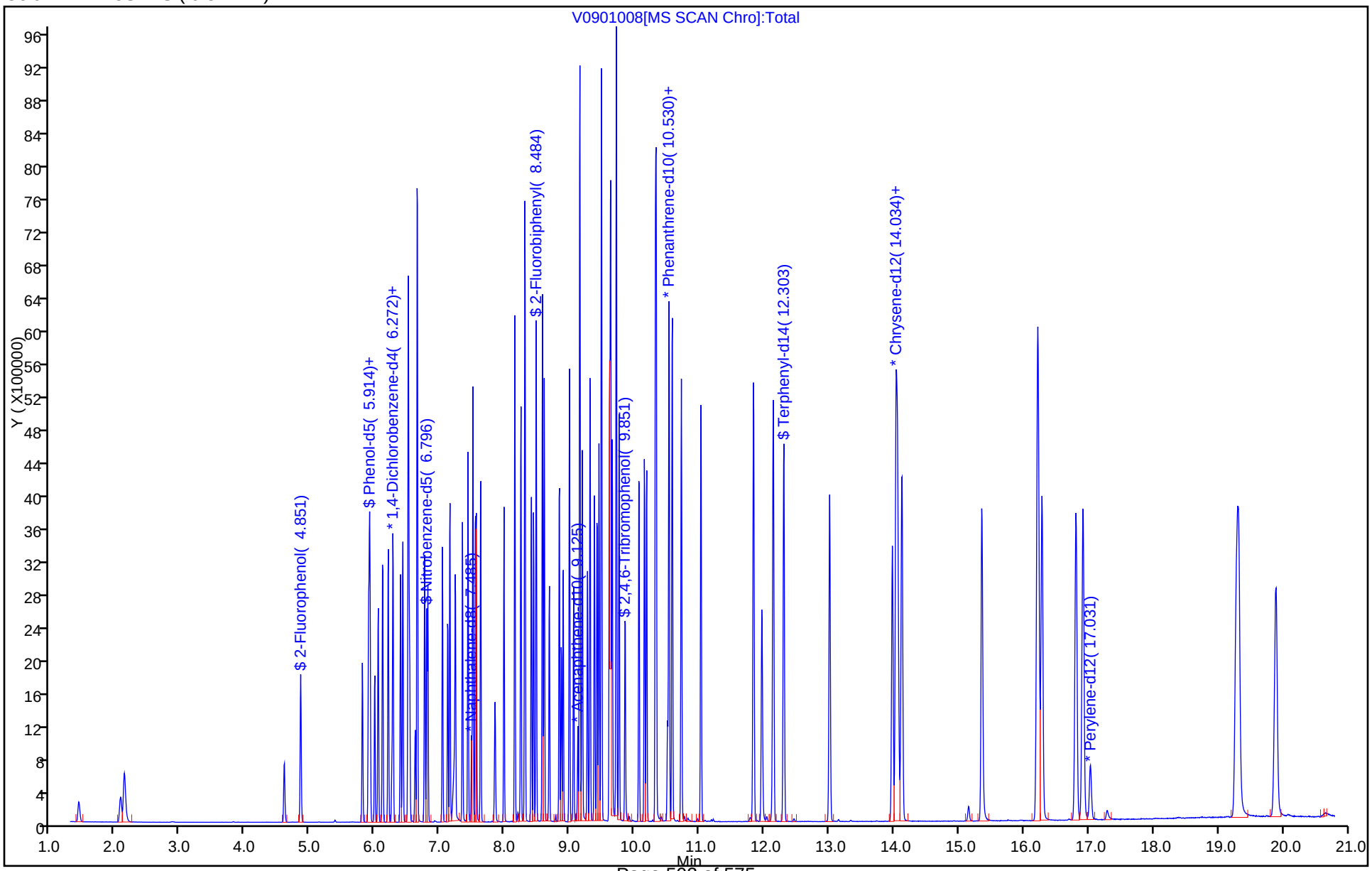
Report Date: 01-Sep-2015 04:26:42 Chrom Revision: 2.2 23-Jul-2015 08:26:08

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

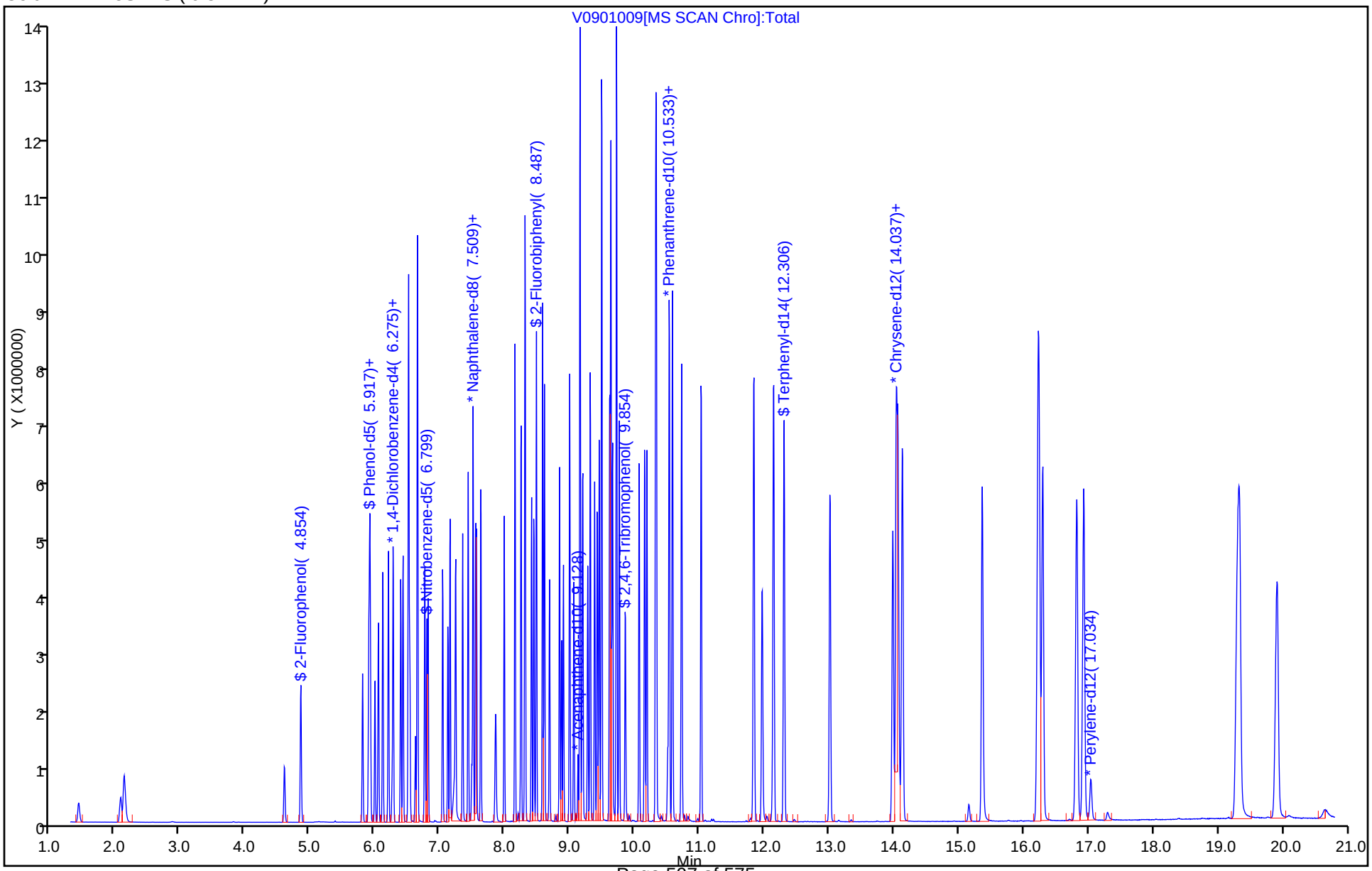
Report Date: 01-Sep-2015 04:26:44 Chrom Revision: 2.2 23-Jul-2015 08:26:08

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

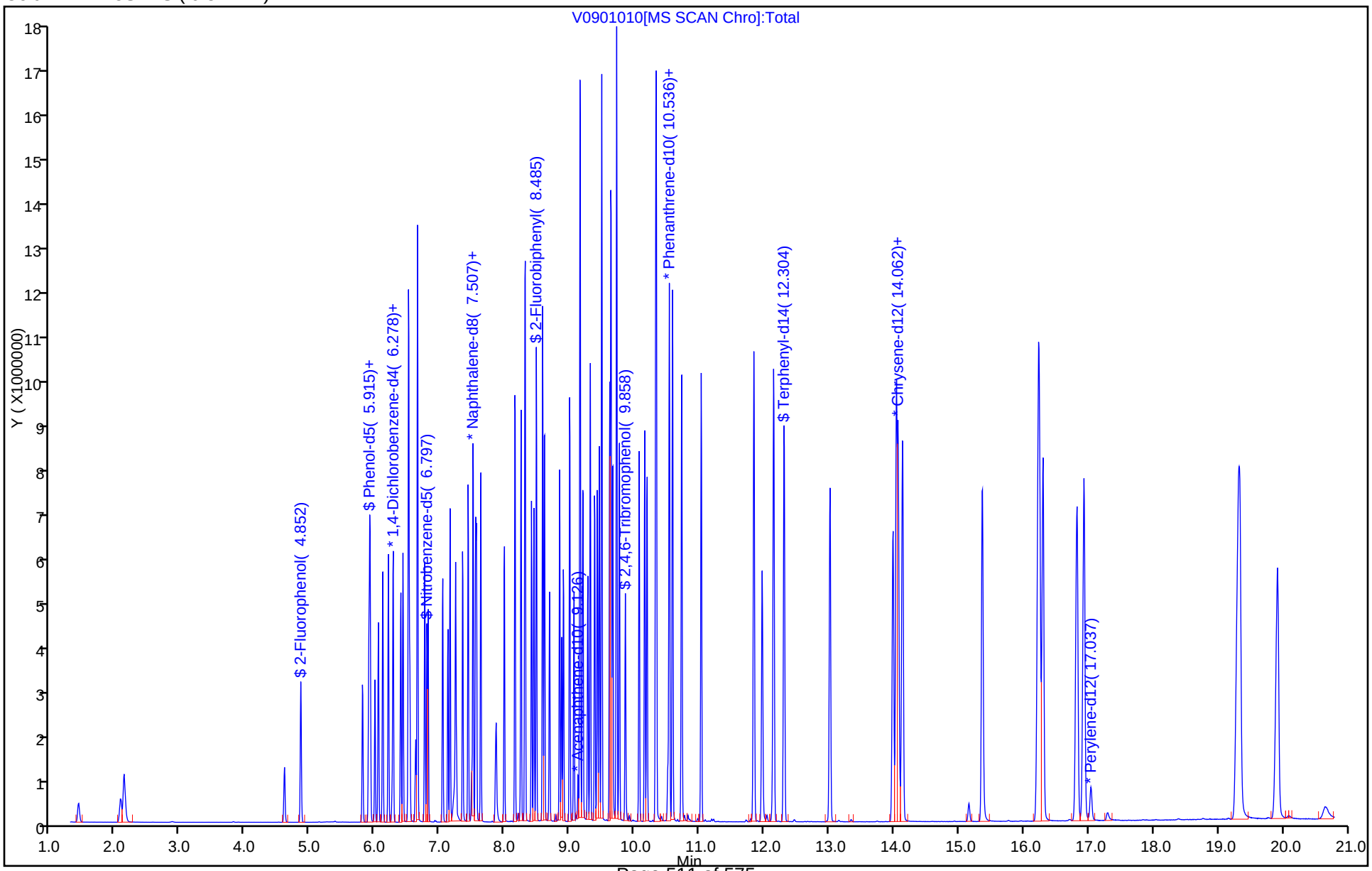
Report Date: 01-Sep-2015 04:26:46 Chrom Revision: 2.2 23-Jul-2015 08:26:08

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.: 180-48435-1

SDG No.:

Lab Sample ID: CCVIS 180-156809/3 Calibration Date: 10/13/2015 10:56

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: V1013003.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	0.3573	0.0100	4.40	5.00	-12.0	20.0
N-Nitrosodimethylamine	Ave	0.5156	0.4842	0.0100	4.69	5.00	-6.1	20.0
Pyridine	Ave	0.9650	0.9792	0.0100	5.07	5.00	1.5	20.0
Methyl methanesulfonate	Ave	0.6714	0.7449	0.0100	5.55	5.00	10.9	20.0
Benzaldehyde	Ave	0.7981	0.8638	0.0100	5.41	5.00	8.2	20.0
Phenol	Ave	1.679	1.701	0.8000	5.07	5.00	1.3	20.0
Aniline	Ave	1.894	1.976	0.0100	5.22	5.00	4.3	20.0
Bis(2-chloroethyl)ether	Ave	1.161	1.206	0.7000	5.19	5.00	3.9	20.0
2-Chlorophenol	Ave	1.422	1.405	0.8000	4.94	5.00	-1.2	20.0
n-Decane	Ave	1.358	1.415		5.21	5.00	4.3	20.0
1,3-Dichlorobenzene	Ave	1.633	1.629	0.0100	4.99	5.00	-0.3	20.0
1,4-Dichlorobenzene	Ave	1.673	1.674	0.0100	5.00	5.00	0.0	20.0
Benzyl alcohol	Ave	0.8520	0.8117	0.0100	4.76	5.00	-4.7	20.0
1,2-Dichlorobenzene	Ave	1.600	1.570	0.0100	4.90	5.00	-1.9	20.0
2-Methylphenol	Ave	1.237	1.259	0.7000	5.09	5.00	1.8	20.0
Indene	Ave	2.396	2.357	0.0100	4.92	5.00	-1.6	20.0
2,2'-oxybis[1-chloropropane]	Ave	1.702	1.754	0.0100	5.15	5.00	3.1	20.0
N-Nitrosopyrrolidine	Ave	0.5648	0.5478	0.0100	4.85	5.00	-3.0	20.0
Acetophenone	Ave	1.878	1.910	0.0100	5.08	5.00	1.7	20.0
Methylphenol, 3 & 4	Ave	1.304	1.281	0.6000	4.91	5.00	-1.7	20.0
N-Nitrosodi-n-propylamine	Ave	0.9087	0.9639	0.5000	5.30	5.00	6.1	20.0
Hexachloroethane	Ave	0.7293	0.7330	0.3000	5.03	5.00	0.5	20.0
Nitrobenzene	Ave	0.3804	0.4089	0.2000	5.38	5.00	7.5	20.0
Isophorone	Ave	0.6240	0.6385	0.4000	5.12	5.00	2.3	20.0
2-Nitrophenol	Ave	0.1917	0.1959	0.1000	5.11	5.00	2.2	20.0
2,4-Dimethylphenol	Ave	0.3716	0.3852	0.2000	5.18	5.00	3.7	20.0
Benzoic acid	Lin1		0.1441	0.0100	5.28	5.00	5.6	20.0
Bis(2-chloroethoxy)methane	Ave	0.3765	0.3790	0.3000	5.03	5.00	0.7	20.0
2,4-Dichlorophenol	Ave	0.3185	0.3247	0.2000	5.10	5.00	1.9	20.0
1,2,4-Trichlorobenzene	Ave	0.3838	0.3834	0.0100	4.99	5.00	-0.1	20.0
Naphthalene	Ave	1.089	1.098	0.7000	5.04	5.00	0.7	20.0
4-Chloroaniline	Ave	0.4495	0.4617	0.0100	5.14	5.00	2.7	20.0
2,6-Dichlorophenol	Ave	0.3193	0.3168	0.0100	4.96	5.00	-0.8	20.0
Hexachlorobutadiene	Ave	0.2453	0.2505	0.0100	5.11	5.00	2.1	20.0
Caprolactam	Ave	0.0958	0.0931	0.0100	4.86	5.00	-2.8	20.0
4-Chloro-3-methylphenol	Ave	0.3163	0.3295	0.2000	5.21	5.00	4.2	20.0
2-Methylnaphthalene	Ave	0.7752	0.7724	0.4000	4.98	5.00	-0.4	20.0
1-Methylnaphthalene	Ave	0.6809	0.6761	0.0100	4.96	5.00	-0.7	20.0
Hexachlorocyclopentadiene	Ave	0.4305	0.4060	0.0500	4.72	5.00	-5.7	20.0
1,2,4,5-Tetrachlorobenzene	Ave	0.6358	0.6376	0.0100	5.01	5.00	0.3	20.0
2,4,6-Trichlorophenol	Ave	0.3956	0.3993	0.2000	5.05	5.00	0.9	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Pittsburgh Job No.: 180-48435-1

SDG No.:

Lab Sample ID: CCVIS 180-156809/3 Calibration Date: 10/13/2015 10:56

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: V1013003.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	0.4119	0.2000	4.96	5.00	-0.7	20.0
1,1'-Biphenyl	Ave	1.544	1.537	0.0100	4.98	5.00	-0.5	20.0
2-Chloronaphthalene	Ave	1.213	1.190	0.8000	4.90	5.00	-1.9	20.0
2-Nitroaniline	Ave	0.3429	0.3559	0.0100	5.19	5.00	3.8	20.0
Dimethyl phthalate	Ave	1.294	1.311	0.0100	5.07	5.00	1.3	20.0
1,3-Dinitrobenzene	Ave	0.2058	0.1981	0.0100	4.81	5.00	-3.8	20.0
2,6-Dinitrotoluene	Ave	0.2938	0.2920	0.2000	4.97	5.00	-0.6	20.0
Acenaphthylene	Ave	1.863	1.832	0.9000	4.92	5.00	-1.7	20.0
3-Nitroaniline	Ave	0.3146	0.3031	0.0100	4.82	5.00	-3.7	20.0
2,4-Dinitrophenol	Lin2		0.1580	0.0100	8.79	10.0	-12.1	20.0
Acenaphthene	Ave	1.180	1.207	0.9000	5.11	5.00	2.3	20.0
4-Nitrophenol	Ave	0.2103	0.2197	0.0100	10.4	10.0	4.5	20.0
2,4-Dinitrotoluene	Ave	0.3946	0.4100	0.2000	5.20	5.00	3.9	20.0
Dibenzofuran	Ave	1.757	1.778	0.8000	5.06	5.00	1.2	20.0
2,3,5,6-Tetrachlorophenol	Ave	0.3792	0.3465	0.0100	4.57	5.00	-8.6	20.0
2,3,4,6-Tetrachlorophenol	Ave	0.3880	0.3612	0.0100	4.65	5.00	-6.9	20.0
2-Naphthylamine	Ave	1.197	1.170	0.0100	4.89	5.00	-2.2	20.0
Diethyl phthalate	Ave	1.354	1.345	0.0100	4.97	5.00	-0.6	20.0
Hexadecane	Ave	0.5246	0.5548		5.29	5.00	5.8	20.0
4-Chlorophenyl phenyl ether	Ave	0.7262	0.7371	0.4000	5.07	5.00	1.5	20.0
4-Nitroaniline	Ave	0.3326	0.3215	0.0100	4.83	5.00	-3.3	20.0
Fluorene	Ave	1.440	1.445	0.9000	5.02	5.00	0.4	20.0
4,6-Dinitro-2-methylphenol	Ave	0.1364	0.1318	0.0100	9.66	10.0	-3.4	20.0
N-Nitrosodiphenylamine	Ave	0.5553	0.5575	0.0100	10.0	10.0	0.4	20.0
1,2-Diphenylhydrazine(as Azobenzene)	Ave	0.7505	0.7572	0.0100	5.05	5.00	0.9	20.0
4-Bromophenyl phenyl ether	Ave	0.2248	0.2221	0.1000	4.94	5.00	-1.2	20.0
Hexachlorobenzene	Ave	0.2447	0.2468	0.1000	5.04	5.00	0.8	20.0
Atrazine	Ave	0.2181	0.2308	0.0100	5.29	5.00	5.8	20.0
Pentachlorophenol	Ave	0.1676	0.1669	0.0500	9.96	10.0	-0.4	20.0
n-Octadecane	Ave	2.300	2.335		5.08	5.00	1.5	20.0
Phenanthrene	Ave	1.218	1.216	0.7000	4.99	5.00	-0.2	20.0
Anthracene	Ave	1.216	1.243	0.7000	5.11	5.00	2.3	20.0
Carbazole	Ave	1.070	1.078	0.0100	5.04	5.00	0.7	20.0
Di-n-butyl phthalate	Ave	1.230	1.275	0.0100	5.18	5.00	3.7	20.0
Fluoranthene	Ave	1.301	1.362	0.6000	5.24	5.00	4.7	20.0
Benzidine	Ave	0.5055	0.4650	0.0100		5.00	-8.0	20.0
Pyrene	Ave	1.232	1.287	0.6000	5.22	5.00	4.5	20.0
Butyl benzyl phthalate	Ave	0.4956	0.5224	0.0100	5.27	5.00	5.4	20.0
3,3'-Dichlorobenzidine	Ave	0.4358	0.4197	0.0100	4.82	5.00	-3.7	20.0
Bis(2-ethylhexyl) phthalate	Ave	0.6866	0.7160	0.0100	5.21	5.00	4.3	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Pittsburgh Job No.: 180-48435-1

SDG No.:

Lab Sample ID: CCVIS 180-156809/3 Calibration Date: 10/13/2015 10:56

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: V1013003.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	1.178	0.8000	5.05	5.00	0.9	20.0
Chrysene	Ave	1.093	1.106	0.7000	5.06	5.00	1.2	20.0
Di-n-octyl phthalate	Ave	1.291	1.471	0.0100	5.69	5.00	13.9	20.0
7,12-Dimethylbenz(a)anthracene	Ave	0.5386	0.5472	0.0100	5.08	5.00	1.6	20.0
Benzo[b]fluoranthene	Ave	1.239	1.272	0.7000	5.13	5.00	2.6	20.0
Benzo[k]fluoranthene	Ave	1.238	1.280	0.7000	5.17	5.00	3.3	20.0
Benzo[e]pyrene	Ave	1.154	1.200	0.0100	5.20	5.00	4.0	20.0
Benzo[a]pyrene	Ave	1.180	1.233	0.7000	5.23	5.00	4.5	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.348	1.379	0.5000	5.12	5.00	2.3	20.0
Dibenz(a,h)anthracene	Ave	1.141	1.136	0.4000	4.98	5.00	-0.4	20.0
Benzo[g,h,i]perylene	Ave	1.174	1.171	0.5000	4.99	5.00	-0.2	20.0
2-Fluorophenol (Surr)	Ave	1.178	1.215		5.16	5.00	3.1	20.0
Phenol-d5 (Surr)	Ave	1.538	1.568		5.10	5.00	2.0	20.0
Nitrobenzene-d5 (Surr)	Ave	0.3892	0.4090		5.25	5.00	5.1	20.0
2-Fluorobiphenyl	Ave	1.398	1.399		5.00	5.00	0.0	20.0
2,4,6-Tribromophenol (Surr)	Ave	0.1109	0.1005	0.0100	4.53	5.00	-9.4	20.0
Terphenyl-d14 (Surr)	Ave	0.7597	0.7988		5.26	5.00	5.1	20.0

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CH731\20151013-8968.b\V1013003.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 13-Oct-2015 10:56:30 ALS Bottle#: 2 Worklist Smp#: 3
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 180-0008968-003
Operator ID: 003200 Instrument ID: CH731
Sublist: chrom-BNA_CH731*sub4

Method: \\ChromNA\Pittsburgh\ChromData\CH731\20151013-8968.b\BNA_CH731.m
Limit Group: BNA 8270D ICAL
Last Update: 14-Oct-2015 06:19:41 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: XAWRK013

First Level Reviewer: piccolinov Date: 13-Oct-2015 12:55:13

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	6.299	6.299	0.000	93	104661	8.00	8.00	
* 2 Naphthalene-d8	136	7.533	7.533	0.000	99	414379	8.00	8.00	
* 3 Acenaphthene-d10	164	9.173	9.173	0.000	91	261978	8.00	8.00	
* 4 Phenanthrene-d10	188	10.562	10.562	0.000	97	486001	8.00	8.00	
* 5 Chrysene-d12	240	14.168	14.168	0.000	96	524171	8.00	8.00	
* 6 Perylene-d12	264	17.144	17.144	0.000	98	486125	8.00	8.00	
$ 7 2-Fluorophenol	112	4.894	4.894	0.000	92	158966	10.0	10.3	
$ 8 Phenol-d5	99	5.936	5.936	0.000	94	205143	10.0	10.2	
$ 9 Nitrobenzene-d5	82	6.839	6.839	0.000	91	211860	10.0	10.5	
$ 10 2-Fluorobiphenyl	172	8.527	8.527	0.000	99	458109	10.0	10.0	
$ 11 2,4,6-Tribromophenol	330	9.905	9.905	0.000	90	61027	10.0	9.06	
$ 12 Terphenyl-d14	244	12.373	12.373	0.000	99	523352	10.0	10.5	
13 1,4-Dioxane	88	1.464	1.464	0.000	90	46746	10.0	8.80	
14 N-Nitrosodimethylamine	74	2.127	2.127	0.000	85	63339	10.0	9.39	
15 Pyridine	79	2.207	2.207	0.000	93	128100	10.0	10.1	M
22 Methyl methanesulfonate	80	4.638	4.638	0.000	90	97455	10.0	11.1	
26 Benzaldehyde	77	5.840	5.840	0.000	92	113003	10.0	10.8	
27 Phenol	94	5.946	5.946	0.000	96	222564	10.0	10.1	
28 Aniline	93	5.957	5.957	0.000	96	258506	10.0	10.4	
29 Bis(2-chloroethyl)ether	93	6.027	6.027	0.000	95	157809	10.0	10.4	
31 2-Chlorophenol	128	6.085	6.085	0.000	96	183817	10.0	9.88	
32 n-Decane	43	6.149	6.149	0.000	88	185160	10.0	10.4	
33 1,3-Dichlorobenzene	146	6.240	6.240	0.000	94	213145	10.0	9.97	
34 1,4-Dichlorobenzene	146	6.315	6.315	0.000	91	218938	10.0	10.0	
36 Benzyl alcohol	108	6.433	6.433	0.000	88	106185	10.0	9.53	
37 1,2-Dichlorobenzene	146	6.470	6.470	0.000	93	205381	10.0	9.81	
38 2-Methylphenol	108	6.545	6.545	0.000	97	164768	10.0	10.2	
39 Indene	116	6.555	6.555	0.000	89	308323	10.0	9.84	
40 2,2'-oxybis[1-chloropropan	45	6.571	6.571	0.000	87	229499	10.0	10.3	
41 N-Nitrosopyrrolidine	100	6.657	6.657	0.000	82	71665	10.0	9.70	
44 N-Nitrosodi-n-propylamine	70	6.689	6.689	0.000	75	126097	10.0	10.6	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
45 4-Methylphenol	108	6.689	6.689	0.000	94	167600	10.0	9.83	
43 Acetophenone	105	6.689	6.689	0.000	83	249825	10.0	10.2	
47 Hexachloroethane	117	6.807	6.807	0.000	92	95899	10.0	10.1	
48 Nitrobenzene	77	6.855	6.855	0.000	91	211809	10.0	10.8	
50 Isophorone	82	7.079	7.079	0.000	98	330739	10.0	10.2	
51 2-Nitrophenol	139	7.164	7.164	0.000	97	101462	10.0	10.2	
52 2,4-Dimethylphenol	107	7.197	7.197	0.000	98	199514	10.0	10.4	
56 Benzoic acid	122	7.239	7.239	0.000	89	74651	10.0	10.6	
55 Bis(2-chloroethoxy)methane	93	7.277	7.277	0.000	97	196298	10.0	10.1	
57 2,4-Dichlorophenol	162	7.394	7.394	0.000	95	168158	10.0	10.2	
59 1,2,4-Trichlorobenzene	180	7.474	7.474	0.000	94	198576	10.0	9.99	
60 Naphthalene	128	7.554	7.554	0.000	97	568476	10.0	10.1	
62 4-Chloroaniline	127	7.592	7.592	0.000	95	239153	10.0	10.3	
63 2,6-Dichlorophenol	162	7.608	7.608	0.000	95	164085	10.0	9.92	
64 Hexachlorobutadiene	225	7.672	7.672	0.000	97	129771	10.0	10.2	
67 Caprolactam	113	7.880	7.880	0.000	76	48235	10.0	9.72	
70 4-Chloro-3-methylphenol	107	8.030	8.030	0.000	95	170674	10.0	10.4	
72 2-Methylnaphthalene	142	8.201	8.201	0.000	92	400094	10.0	9.96	
75 1-Methylnaphthalene	142	8.292	8.292	0.000	91	350191	10.0	9.93	
76 Hexachlorocyclopentadiene	237	8.350	8.350	0.000	96	132953	10.0	9.43	
77 1,2,4,5-Tetrachlorobenzene	216	8.356	8.356	0.000	99	208808	10.0	10.0	
78 2,4,6-Trichlorophenol	196	8.452	8.452	0.000	94	130764	10.0	10.1	
79 2,4,5-Trichlorophenol	196	8.489	8.489	0.000	93	134894	10.0	9.93	
80 1,1'-Biphenyl	154	8.623	8.623	0.000	95	503395	10.0	9.95	
81 2-Chloronaphthalene	162	8.655	8.655	0.000	97	389635	10.0	9.81	
82 2-Nitroaniline	65	8.730	8.730	0.000	81	116542	10.0	10.4	
86 Dimethyl phthalate	163	8.885	8.885	0.000	98	429200	10.0	10.1	
87 1,3-Dinitrobenzene	168	8.917	8.917	0.000	82	64858	10.0	9.62	
88 2,6-Dinitrotoluene	165	8.943	8.943	0.000	92	95625	10.0	9.94	
89 Acenaphthylene	152	9.045	9.045	0.000	98	599808	10.0	9.83	
90 3-Nitroaniline	138	9.109	9.109	0.000	93	99253	10.0	9.63	
91 Acenaphthene	153	9.205	9.205	0.000	93	395148	10.0	10.2	
92 2,4-Dinitrophenol	184	9.205	9.205	0.000	84	103456	20.0	17.6	
93 4-Nitrophenol	109	9.243	9.243	0.000	83	143871	20.0	20.9	
94 2,4-Dinitrotoluene	165	9.323	9.323	0.000	91	134269	10.0	10.4	
95 Dibenzofuran	168	9.360	9.360	0.000	96	582271	10.0	10.1	
97 2,3,5,6-Tetrachlorophenol	232	9.430	9.430	0.000	93	113474	10.0	9.14	
99 2,3,4,6-Tetrachlorophenol	232	9.472	9.472	0.000	73	118297	10.0	9.31	
100 2-Naphthylamine	143	9.499	9.499	0.000	95	383218	10.0	9.78	
101 Diethyl phthalate	149	9.531	9.531	0.000	98	440596	10.0	9.94	
102 Hexadecane	57	9.536	9.536	0.000	95	287362	10.0	10.6	
104 4-Chlorophenyl phenyl ethe	204	9.665	9.665	0.000	91	241362	10.0	10.1	
105 4-Nitroaniline	138	9.675	9.675	0.000	75	105291	10.0	9.67	
106 Fluorene	166	9.681	9.681	0.000	94	473137	10.0	10.0	
108 4,6-Dinitro-2-methylphenol	198	9.702	9.702	0.000	85	160161	20.0	19.3	
109 N-Nitrosodiphenylamine	169	9.766	9.766	0.000	63	677305	20.0	20.1	
111 1,2-Diphenylhydrazine	77	9.809	9.809	0.000	99	460020	10.0	10.1	
61 Azobenzene	77	9.809	9.809	0.000	99	460020	10.0	10.1	
116 4-Bromophenyl phenyl ether	248	10.119	10.119	0.000	69	134947	10.0	9.88	
118 Hexachlorobenzene	284	10.204	10.204	0.000	94	149944	10.0	10.1	
119 Atrazine	200	10.231	10.231	0.000	93	140179	10.0	10.6	
122 Pentachlorophenol	266	10.375	10.375	0.000	90	202743	20.0	19.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
121 n-Octadecane	57	10.380	10.380	0.000	95	305493	10.0	10.2	
126 Phenanthrene	178	10.583	10.583	0.000	97	738538	10.0	9.98	
128 Anthracene	178	10.637	10.637	0.000	96	755275	10.0	10.2	
130 Carbazole	167	10.776	10.776	0.000	96	654740	10.0	10.1	
132 Di-n-butyl phthalate	149	11.080	11.080	0.000	100	774626	10.0	10.4	
137 Fluoranthene	202	11.903	11.903	0.000	97	827538	10.0	10.5	
138 Benzidine	184	12.031	12.031	0.000	99	304702	10.0	9.20	
139 Pyrene	202	12.213	12.213	0.000	98	843354	10.0	10.4	
144 Butyl benzyl phthalate	149	13.089	13.089	0.000	98	342292	10.0	10.5	
149 3,3'-Dichlorobenzidine	252	14.072	14.072	0.000	74	274985	10.0	9.63	
151 Bis(2-ethylhexyl) phthalat	149	14.115	14.115	0.000	96	469139	10.0	10.4	
152 Benzo[a]anthracene	228	14.147	14.147	0.000	97	771762	10.0	10.1	
153 Chrysene	228	14.216	14.216	0.000	96	724718	10.0	10.1	
156 Di-n-octyl phthalate	149	15.445	15.445	0.000	100	893613	10.0	11.4	
157 7,12-Dimethylbenz(a)anthra	256	16.310	16.310	0.000	91	332480	10.0	10.2	
158 Benzo[b]fluoranthene	252	16.332	16.332	0.000	97	772726	10.0	10.3	
159 Benzo[k]fluoranthene	252	16.390	16.390	0.000	99	777722	10.0	10.3	
176 Benzo[e]pyrene	252	16.919	16.919	0.000	0	729302	10.0	10.4	
160 Benzo[a]pyrene	252	17.026	17.026	0.000	76	749083	10.0	10.5	
163 Indeno[1,2,3-cd]pyrene	276	19.414	19.414	0.000	99	838175	10.0	10.2	
164 Dibenz(a,h)anthracene	278	19.446	19.446	0.000	88	690520	10.0	9.96	
165 Benzo[g,h,i]perylene	276	20.028	20.028	0.000	99	711565	10.0	9.98	
S 208 Methyl Phenols,Total	108				0		20.0	20.0	
S 206 Total Cresols	108				0		20.0	20.0	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

SVTAPSTD10i_00129 Amount Added: 1.00 Units: mL

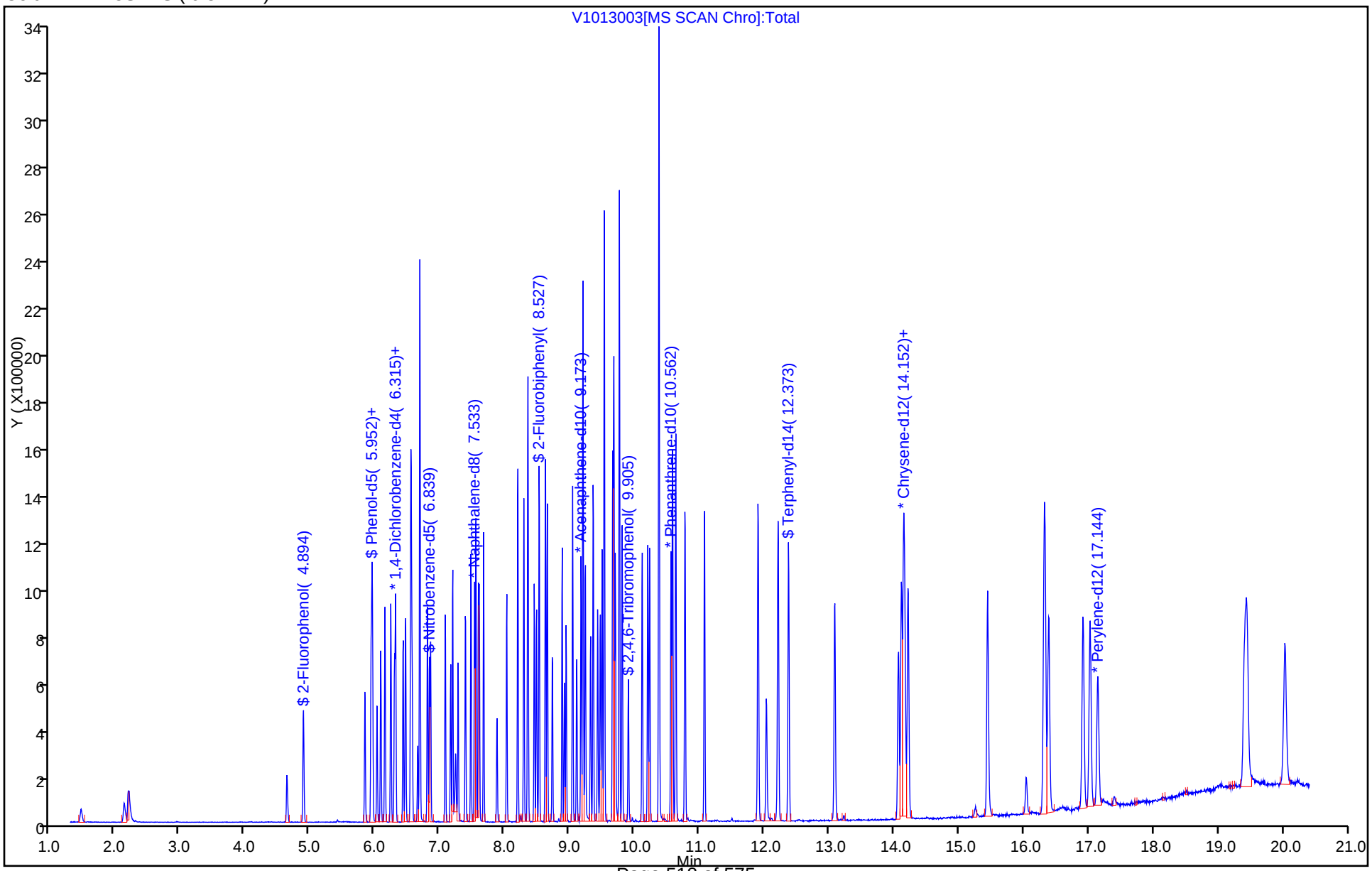
Report Date: 14-Oct-2015 06:19:42 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CH731\20151013-8968.b\V1013003.D

Injection Date:	13-Oct-2015 10:56:30	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)



Manual Integration/User Assign Peak Report

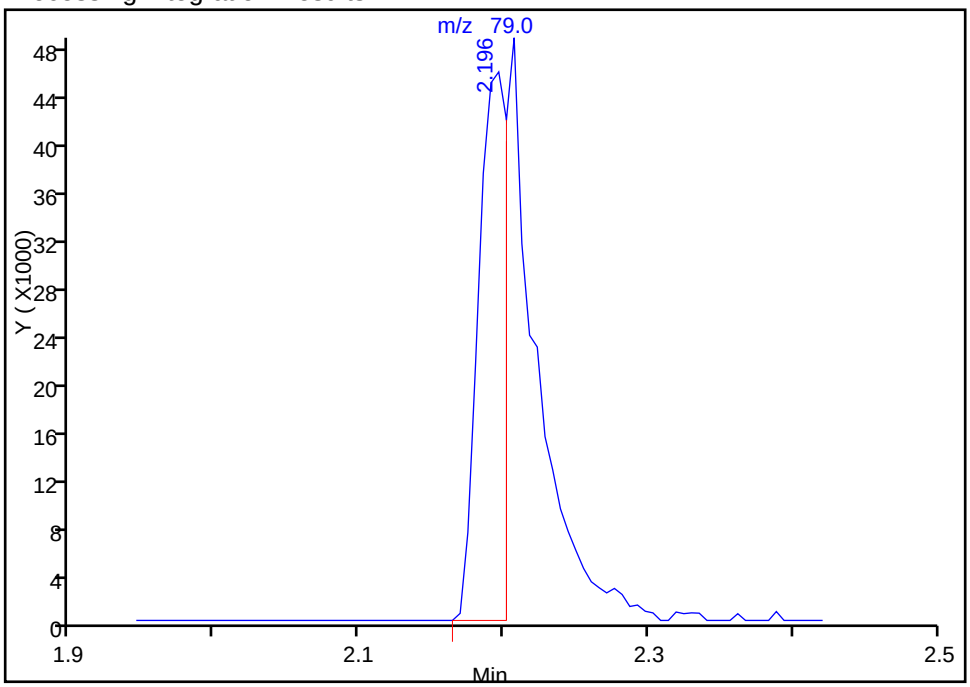
TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CH731\20151013-8968.b\V1013003.D				
Injection Date:	13-Oct-2015 10:56:30	Instrument ID:	CH731		
Lims ID:	CCVIS				
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

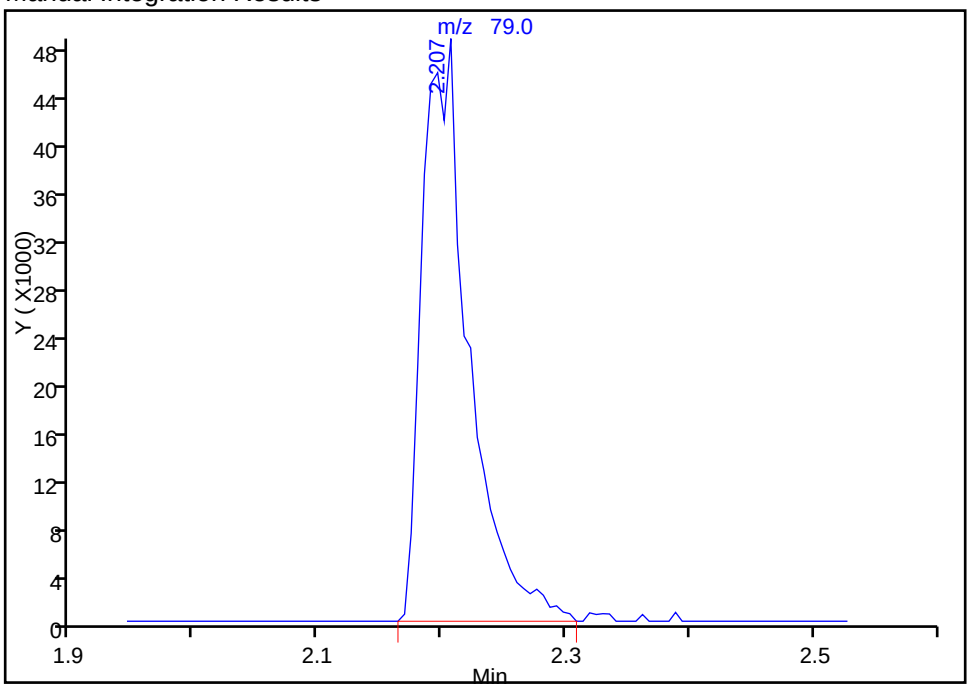
Processing Integration Results

RT: 2.20
Area: 64157
Amount: 5.082053
Amount Units: ng



Manual Integration Results

RT: 2.21
Area: 128100
Amount: 10.147154
Amount Units: ng



Reviewer: piccolinov, 13-Oct-2015 12:55:13
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Pittsburgh Job No.: 180-48435-1

SDG No.:

Lab Sample ID: CCVIS 180-156981/3 Calibration Date: 10/14/2015 12:30

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: V1014003.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	0.3483	0.0100	4.29	5.00	-14.2	20.0
N-Nitrosodimethylamine	Ave	0.5156	0.4771	0.0100	4.63	5.00	-7.5	20.0
Pyridine	Ave	0.9650	0.9182	0.0100	4.76	5.00	-4.8	20.0
Methyl methanesulfonate	Ave	0.6714	0.6906	0.0100	5.14	5.00	2.9	20.0
Benzaldehyde	Ave	0.7981	0.8304	0.0100	5.20	5.00	4.1	20.0
Phenol	Ave	1.679	1.723	0.8000	5.13	5.00	2.6	20.0
Aniline	Ave	1.894	1.940	0.0100	5.12	5.00	2.5	20.0
Bis(2-chloroethyl)ether	Ave	1.161	1.170	0.7000	5.04	5.00	0.7	20.0
2-Chlorophenol	Ave	1.422	1.412	0.8000	4.96	5.00	-0.7	20.0
n-Decane	Ave	1.358	1.345		4.95	5.00	-0.9	20.0
1,3-Dichlorobenzene	Ave	1.633	1.603	0.0100	4.91	5.00	-1.8	20.0
1,4-Dichlorobenzene	Ave	1.673	1.627	0.0100	4.86	5.00	-2.8	20.0
Benzyl alcohol	Ave	0.8520	0.8277	0.0100	4.86	5.00	-2.9	20.0
1,2-Dichlorobenzene	Ave	1.600	1.571	0.0100	4.91	5.00	-1.9	20.0
2-Methylphenol	Ave	1.237	1.265	0.7000	5.11	5.00	2.2	20.0
Indene	Ave	2.396	2.364	0.0100	4.93	5.00	-1.4	20.0
2,2'-oxybis[1-chloropropane]	Ave	1.702	1.699	0.0100	4.99	5.00	-0.1	20.0
N-Nitrosopyrrolidine	Ave	0.5648	0.5310	0.0100	4.70	5.00	-6.0	20.0
Acetophenone	Ave	1.878	1.884	0.0100	5.01	5.00	0.3	20.0
N-Nitrosodi-n-propylamine	Ave	0.9087	0.9327	0.5000	5.13	5.00	2.6	20.0
Methylphenol, 3 & 4	Ave	1.304	1.296	0.6000	4.97	5.00	-0.6	20.0
Hexachloroethane	Ave	0.7293	0.7084	0.3000	4.86	5.00	-2.9	20.0
Nitrobenzene	Ave	0.3804	0.3727	0.2000	4.90	5.00	-2.0	20.0
Isophorone	Ave	0.6240	0.6294	0.4000	5.04	5.00	0.9	20.0
2-Nitrophenol	Ave	0.1917	0.1939	0.1000	5.06	5.00	1.2	20.0
2,4-Dimethylphenol	Ave	0.3716	0.3801	0.2000	5.11	5.00	2.3	20.0
Benzoic acid	Lin1		0.1392	0.0100	5.15	5.00	3.0	20.0
Bis(2-chloroethoxy)methane	Ave	0.3765	0.3843	0.3000	5.10	5.00	2.1	20.0
2,4-Dichlorophenol	Ave	0.3185	0.3278	0.2000	5.15	5.00	2.9	20.0
1,2,4-Trichlorobenzene	Ave	0.3838	0.3852	0.0100	5.02	5.00	0.4	20.0
Naphthalene	Ave	1.089	1.105	0.7000	5.07	5.00	1.5	20.0
4-Chloroaniline	Ave	0.4495	0.4531	0.0100	5.04	5.00	0.8	20.0
2,6-Dichlorophenol	Ave	0.3193	0.3186	0.0100	4.99	5.00	-0.2	20.0
Hexachlorobutadiene	Ave	0.2453	0.2537	0.0100	5.17	5.00	3.4	20.0
Caprolactam	Ave	0.0958	0.0903	0.0100	4.71	5.00	-5.8	20.0
4-Chloro-3-methylphenol	Ave	0.3163	0.3225	0.2000	5.10	5.00	1.9	20.0
2-Methylnaphthalene	Ave	0.7752	0.7731	0.4000	4.99	5.00	-0.3	20.0
1-Methylnaphthalene	Ave	0.6809	0.6799	0.0100	4.99	5.00	-0.1	20.0
Hexachlorocyclopentadiene	Ave	0.4305	0.4154	0.0500	4.82	5.00	-3.5	20.0
1,2,4,5-Tetrachlorobenzene	Ave	0.6358	0.6524	0.0100	5.13	5.00	2.6	20.0
2,4,6-Trichlorophenol	Ave	0.3956	0.3949	0.2000	4.99	5.00	-0.2	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Pittsburgh Job No.: 180-48435-1

SDG No.:

Lab Sample ID: CCVIS 180-156981/3 Calibration Date: 10/14/2015 12:30

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: V1014003.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	0.4318	0.2000	5.20	5.00	4.1	20.0
1,1'-Biphenyl	Ave	1.544	1.543	0.0100	5.00	5.00	-0.0	20.0
2-Chloronaphthalene	Ave	1.213	1.209	0.8000	4.99	5.00	-0.3	20.0
2-Nitroaniline	Ave	0.3429	0.3450	0.0100	5.03	5.00	0.6	20.0
Dimethyl phthalate	Ave	1.294	1.310	0.0100	5.06	5.00	1.3	20.0
1,3-Dinitrobenzene	Ave	0.2058	0.1988	0.0100	4.83	5.00	-3.4	20.0
2,6-Dinitrotoluene	Ave	0.2938	0.3052	0.2000	5.19	5.00	3.9	20.0
Acenaphthylene	Ave	1.863	1.879	0.9000	5.04	5.00	0.9	20.0
3-Nitroaniline	Ave	0.3146	0.3220	0.0100	5.12	5.00	2.4	20.0
2,4-Dinitrophenol	Lin2		0.1790	0.0100	9.80	10.0	-2.0	20.0
Acenaphthene	Ave	1.180	1.214	0.9000	5.14	5.00	2.9	20.0
4-Nitrophenol	Ave	0.2103	0.2120	0.0100	10.1	10.0	0.8	20.0
2,4-Dinitrotoluene	Ave	0.3946	0.4214	0.2000	5.34	5.00	6.8	20.0
Dibenzofuran	Ave	1.757	1.777	0.8000	5.06	5.00	1.1	20.0
2,3,5,6-Tetrachlorophenol	Ave	0.3792	0.3686	0.0100	4.86	5.00	-2.8	20.0
2,3,4,6-Tetrachlorophenol	Ave	0.3880	0.3828	0.0100	4.93	5.00	-1.4	20.0
2-Naphthylamine	Ave	1.197	1.229	0.0100	5.13	5.00	2.6	20.0
Diethyl phthalate	Ave	1.354	1.357	0.0100	5.01	5.00	0.2	20.0
Hexadecane	Ave	0.5246	0.4982		4.75	5.00	-5.0	20.0
4-Chlorophenyl phenyl ether	Ave	0.7262	0.7506	0.4000	5.17	5.00	3.4	20.0
4-Nitroaniline	Ave	0.3326	0.3354	0.0100	5.04	5.00	0.8	20.0
Fluorene	Ave	1.440	1.471	0.9000	5.11	5.00	2.2	20.0
4,6-Dinitro-2-methylphenol	Ave	0.1364	0.1411	0.0100	10.3	10.0	3.4	20.0
N-Nitrosodiphenylamine	Ave	0.5553	0.5715	0.0100	10.3	10.0	2.9	20.0
1,2-Diphenylhydrazine(as Azobenzene)	Ave	0.7505	0.7342	0.0100	4.89	5.00	-2.2	20.0
4-Bromophenyl phenyl ether	Ave	0.2248	0.2371	0.1000	5.27	5.00	5.5	20.0
Hexachlorobenzene	Ave	0.2447	0.2478	0.1000	5.06	5.00	1.3	20.0
Atrazine	Ave	0.2181	0.2299	0.0100	5.27	5.00	5.4	20.0
Pentachlorophenol	Ave	0.1676	0.1919	0.0500	11.4	10.0	14.5	20.0
n-Octadecane	Ave	2.300	2.166		4.71	5.00	-5.8	20.0
Phenanthrene	Ave	1.218	1.205	0.7000	4.95	5.00	-1.1	20.0
Anthracene	Ave	1.216	1.241	0.7000	5.10	5.00	2.1	20.0
Carbazole	Ave	1.070	1.089	0.0100	5.09	5.00	1.8	20.0
Di-n-butyl phthalate	Ave	1.230	1.249	0.0100	5.08	5.00	1.5	20.0
Fluoranthene	Ave	1.301	1.324	0.6000	5.09	5.00	1.8	20.0
Benzidine	Ave	0.5055	0.5341	0.0100	5.28	5.00	5.7	20.0
Pyrene	Ave	1.232	1.289	0.6000	5.23	5.00	4.6	20.0
Butyl benzyl phthalate	Ave	0.4956	0.4993	0.0100	5.04	5.00	0.7	20.0
3,3'-Dichlorobenzidine	Ave	0.4358	0.4402	0.0100	5.05	5.00	1.0	20.0
Bis(2-ethylhexyl) phthalate	Ave	0.6866	0.6997	0.0100	5.10	5.00	1.9	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Pittsburgh Job No.: 180-48435-1

SDG No.:

Lab Sample ID: CCVIS 180-156981/3 Calibration Date: 10/14/2015 12:30

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: V1014003.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	1.180	0.8000	5.05	5.00	1.1	20.0
Chrysene	Ave	1.093	1.119	0.7000	5.12	5.00	2.4	20.0
Di-n-octyl phthalate	Ave	1.291	1.267	0.0100	4.91	5.00	-1.9	20.0
7,12-Dimethylbenz(a)anthracene	Ave	0.5386	0.5007	0.0100	4.65	5.00	-7.0	20.0
Benzo[b]fluoranthene	Ave	1.239	1.214	0.7000	4.90	5.00	-2.0	20.0
Benzo[k]fluoranthene	Ave	1.238	1.256	0.7000	5.07	5.00	1.4	20.0
Benzo[e]pyrene	Ave	1.154	1.161	0.0100	5.03	5.00	0.6	20.0
Benzo[a]pyrene	Ave	1.180	1.202	0.7000	5.10	5.00	1.9	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.348	1.454	0.5000	5.39	5.00	7.9	20.0
Dibenz(a,h)anthracene	Ave	1.141	1.214	0.4000	5.32	5.00	6.4	20.0
Benzo[g,h,i]perylene	Ave	1.174	1.234	0.5000	5.26	5.00	5.2	20.0
2-Fluorophenol (Surr)	Ave	1.178	1.162		4.93	5.00	-1.4	20.0
Phenol-d5 (Surr)	Ave	1.538	1.512		4.92	5.00	-1.7	20.0
Nitrobenzene-d5 (Surr)	Ave	0.3892	0.3892		5.00	5.00	0.0	20.0
2-Fluorobiphenyl	Ave	1.398	1.409		5.04	5.00	0.8	20.0
2,4,6-Tribromophenol (Surr)	Ave	0.1109	0.1051	0.0100	4.74	5.00	-5.2	20.0
Terphenyl-d14 (Surr)	Ave	0.7597	0.8088		5.32	5.00	6.5	20.0

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CH731\20151014-8999.b\V1014003.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 14-Oct-2015 12:30:30 ALS Bottle#: 2 Worklist Smp#: 3
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 180-0008999-003
Operator ID: 003200 Instrument ID: CH731
Sublist: chrom-BNA_CH731*sub4

Method: \\ChromNA\Pittsburgh\ChromData\CH731\20151014-8999.b\BNA_CH731.m
Limit Group: BNA 8270D ICAL
Last Update: 15-Oct-2015 06:22:52 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: XAWRK013

First Level Reviewer: bachas Date: 14-Oct-2015 14:14:30

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	6.295	6.295	0.000	94	123681	8.00	8.00	
* 2 Naphthalene-d8	136	7.529	7.529	0.000	100	491120	8.00	8.00	
* 3 Acenaphthene-d10	164	9.163	9.163	0.000	91	306185	8.00	8.00	
* 4 Phenanthrene-d10	188	10.552	10.552	0.000	97	571562	8.00	8.00	
* 5 Chrysene-d12	240	14.153	14.153	0.000	97	600025	8.00	8.00	
* 6 Perylene-d12	264	17.128	17.128	0.000	98	595551	8.00	8.00	
$ 7 2-Fluorophenol	112	4.900	4.900	0.000	93	179629	10.0	9.86	
$ 8 Phenol-d5	99	5.937	5.937	0.000	95	233744	10.0	9.83	
$ 9 Nitrobenzene-d5	82	6.834	6.834	0.000	91	238938	10.0	10.0	
$ 10 2-Fluorobiphenyl	172	8.522	8.522	0.000	100	539122	10.0	10.1	
$ 11 2,4,6-Tribromophenol	330	9.895	9.895	0.000	92	75071	10.0	9.48	
$ 12 Terphenyl-d14	244	12.363	12.363	0.000	100	606607	10.0	10.6	
13 1,4-Dioxane	88	1.487	1.487	0.000	88	53840	10.0	8.58	
14 N-Nitrosodimethylamine	74	2.149	2.149	0.000	87	73758	10.0	9.25	
15 Pyridine	79	2.218	2.218	0.000	97	141961	10.0	9.52	
22 Methyl methanesulfonate	80	4.649	4.649	0.000	90	106773	10.0	10.3	
26 Benzaldehyde	77	5.840	5.840	0.000	94	128386	10.0	10.4	
27 Phenol	94	5.953	5.953	0.000	98	266452	10.0	10.3	
28 Aniline	93	5.958	5.958	0.000	98	300000	10.0	10.2	
29 Bis(2-chloroethyl)ether	93	6.027	6.027	0.000	96	180830	10.0	10.1	
31 2-Chlorophenol	128	6.086	6.086	0.000	97	218265	10.0	9.93	
32 n-Decane	43	6.150	6.150	0.000	88	207983	10.0	9.91	
33 1,3-Dichlorobenzene	146	6.241	6.241	0.000	96	247897	10.0	9.82	
34 1,4-Dichlorobenzene	146	6.316	6.316	0.000	93	251481	10.0	9.72	
36 Benzyl alcohol	108	6.428	6.428	0.000	89	127962	10.0	9.71	
37 1,2-Dichlorobenzene	146	6.465	6.465	0.000	95	242840	10.0	9.81	
38 2-Methylphenol	108	6.546	6.546	0.000	96	195506	10.0	10.2	
39 Indene	116	6.551	6.551	0.000	89	365411	10.0	9.86	
40 2,2'-oxybis[1-chloropropan	45	6.567	6.567	0.000	90	262717	10.0	9.99	
41 N-Nitrosopyrrolidine	100	6.652	6.652	0.000	82	82095	10.0	9.40	
44 N-Nitrosodi-n-propylamine	70	6.684	6.684	0.000	89	144198	10.0	10.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
43 Acetophenone	105	6.684	6.684	0.000	88	291208	10.0	10.0	
45 4-Methylphenol	108	6.690	6.690	0.000	88	200390	10.0	9.94	
47 Hexachloroethane	117	6.802	6.802	0.000	90	109515	10.0	9.71	
48 Nitrobenzene	77	6.850	6.850	0.000	90	228770	10.0	9.80	
50 Isophorone	82	7.074	7.074	0.000	98	386416	10.0	10.1	
51 2-Nitrophenol	139	7.160	7.160	0.000	98	119042	10.0	10.1	
52 2,4-Dimethylphenol	107	7.187	7.187	0.000	98	233358	10.0	10.2	
56 Benzoic acid	122	7.235	7.235	0.000	88	85462	10.0	10.3	
55 Bis(2-chloroethoxy)methane	93	7.272	7.272	0.000	98	235908	10.0	10.2	
57 2,4-Dichlorophenol	162	7.384	7.384	0.000	95	201256	10.0	10.3	
59 1,2,4-Trichlorobenzene	180	7.470	7.470	0.000	93	236460	10.0	10.0	
60 Naphthalene	128	7.545	7.545	0.000	97	678494	10.0	10.1	
62 4-Chloroaniline	127	7.582	7.582	0.000	95	278150	10.0	10.1	
63 2,6-Dichlorophenol	162	7.598	7.598	0.000	97	195566	10.0	9.98	
64 Hexachlorobutadiene	225	7.662	7.662	0.000	95	155740	10.0	10.3	
67 Caprolactam	113	7.870	7.870	0.000	76	55436	10.0	9.42	
70 4-Chloro-3-methylphenol	107	8.020	8.020	0.000	96	197958	10.0	10.2	
72 2-Methylnaphthalene	142	8.191	8.191	0.000	92	474588	10.0	9.97	
75 1-Methylnaphthalene	142	8.282	8.282	0.000	93	417392	10.0	9.99	
76 Hexachlorocyclopentadiene	237	8.346	8.346	0.000	96	158980	10.0	9.65	
77 1,2,4,5-Tetrachlorobenzene	216	8.351	8.351	0.000	98	249683	10.0	10.3	
78 2,4,6-Trichlorophenol	196	8.447	8.447	0.000	92	151148	10.0	9.98	
79 2,4,5-Trichlorophenol	196	8.479	8.479	0.000	93	165249	10.0	10.4	
80 1,1'-Biphenyl	154	8.618	8.618	0.000	94	590737	10.0	10.0	
81 2-Chloronaphthalene	162	8.645	8.645	0.000	96	462876	10.0	9.97	
82 2-Nitroaniline	65	8.725	8.725	0.000	82	132038	10.0	10.1	
86 Dimethyl phthalate	163	8.875	8.875	0.000	98	501421	10.0	10.1	
87 1,3-Dinitrobenzene	168	8.912	8.912	0.000	86	76069	10.0	9.66	
88 2,6-Dinitrotoluene	165	8.939	8.939	0.000	94	116804	10.0	10.4	
89 Acenaphthylene	152	9.035	9.035	0.000	98	719239	10.0	10.1	
90 3-Nitroaniline	138	9.099	9.099	0.000	93	123248	10.0	10.2	
92 2,4-Dinitrophenol	184	9.195	9.195	0.000	86	137018	20.0	19.6	
91 Acenaphthene	153	9.195	9.195	0.000	92	464635	10.0	10.3	
93 4-Nitrophenol	109	9.233	9.233	0.000	85	162289	20.0	20.2	
94 2,4-Dinitrotoluene	165	9.313	9.313	0.000	93	161293	10.0	10.7	
95 Dibenzofuran	168	9.356	9.356	0.000	96	680111	10.0	10.1	
97 2,3,5,6-Tetrachlorophenol	232	9.425	9.425	0.000	93	141079	10.0	9.72	
99 2,3,4,6-Tetrachlorophenol	232	9.462	9.462	0.000	72	146499	10.0	9.86	
100 2-Naphthylamine	143	9.489	9.489	0.000	97	470221	10.0	10.3	
101 Diethyl phthalate	149	9.521	9.521	0.000	98	519228	10.0	10.0	
102 Hexadecane	57	9.527	9.527	0.000	97	305854	10.0	9.50	
104 4-Chlorophenyl phenyl ethe	204	9.655	9.655	0.000	91	287291	10.0	10.3	
105 4-Nitroaniline	138	9.665	9.665	0.000	79	128370	10.0	10.1	
106 Fluorene	166	9.671	9.671	0.000	95	562918	10.0	10.2	
108 4,6-Dinitro-2-methylphenol	198	9.697	9.697	0.000	88	201541	20.0	20.7	
109 N-Nitrosodiphenylamine	169	9.756	9.756	0.000	62	816554	20.0	20.6	
61 Azobenzene	77	9.799	9.799	0.000	99	524550	10.0	9.78	
111 1,2-Diphenylhydrazine	77	9.799	9.799	0.000	98	524550	10.0	9.78	
116 4-Bromophenyl phenyl ether	248	10.109	10.109	0.000	66	169395	10.0	10.5	
118 Hexachlorobenzene	284	10.194	10.194	0.000	94	177048	10.0	10.1	
119 Atrazine	200	10.226	10.226	0.000	94	164278	10.0	10.5	
122 Pentachlorophenol	266	10.365	10.365	0.000	91	274137	20.0	22.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
121 n-Octadecane	57	10.371	10.371	0.000	96	334802	10.0	9.42	
126 Phenanthrene	178	10.579	10.579	0.000	97	861176	10.0	9.89	
128 Anthracene	178	10.627	10.627	0.000	96	886545	10.0	10.2	
130 Carbazole	167	10.771	10.771	0.000	96	778234	10.0	10.2	
132 Di-n-butyl phthalate	149	11.070	11.070	0.000	100	892165	10.0	10.2	
137 Fluoranthene	202	11.893	11.893	0.000	97	945751	10.0	10.2	
138 Benzidine	184	12.021	12.021	0.000	99	400578	10.0	10.6	
139 Pyrene	202	12.203	12.203	0.000	98	966562	10.0	10.5	
144 Butyl benzyl phthalate	149	13.074	13.074	0.000	98	374469	10.0	10.1	
149 3,3'-Dichlorobenzidine	252	14.057	14.057	0.000	74	330195	10.0	10.1	
151 Bis(2-ethylhexyl) phthalat	149	14.099	14.099	0.000	95	524781	10.0	10.2	
152 Benzo[a]anthracene	228	14.131	14.131	0.000	97	884859	10.0	10.1	
153 Chrysene	228	14.206	14.206	0.000	96	839310	10.0	10.2	
156 Di-n-octyl phthalate	149	15.430	15.430	0.000	99	943166	10.0	9.81	
157 7,12-Dimethylbenz(a)anthra	256	16.300	16.300	0.000	91	372743	10.0	9.30	
158 Benzo[b]fluoranthene	252	16.316	16.316	0.000	97	903710	10.0	9.80	
159 Benzo[k]fluoranthene	252	16.375	16.375	0.000	99	935120	10.0	10.1	
176 Benzo[e]pyrene	252	16.904	16.904	0.000	0	864237	10.0	10.1	
160 Benzo[a]pyrene	252	17.011	17.011	0.000	76	895140	10.0	10.2	
163 Indeno[1,2,3-cd]pyrene	276	19.399	19.399	0.000	99	1082691	10.0	10.8	
164 Dibenz(a,h)anthracene	278	19.431	19.431	0.000	88	903970	10.0	10.6	
165 Benzo[g,h,i]perylene	276	20.013	20.013	0.000	99	918892	10.0	10.5	
S 206 Total Cresols	108				0		20.0	20.2	
S 208 Methyl Phenols,Total	108				0		20.0	20.2	

Reagents:

SVTAPSTD10i_00129 Amount Added: 1.00 Units: mL

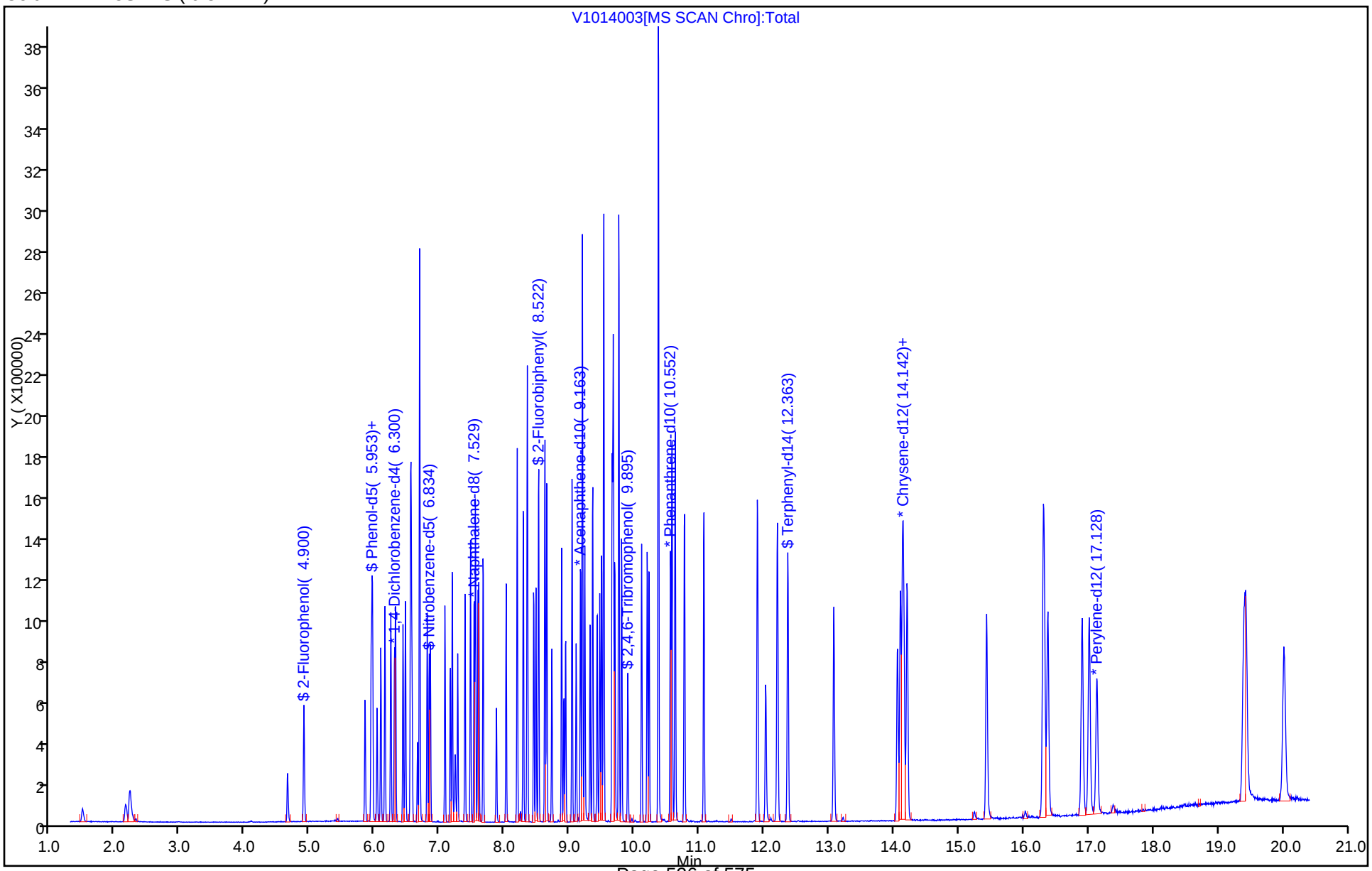
Report Date: 15-Oct-2015 06:22:53 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CH731\20151014-8999.b\V1014003.D

Injection Date:	14-Oct-2015 12:30:30	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:

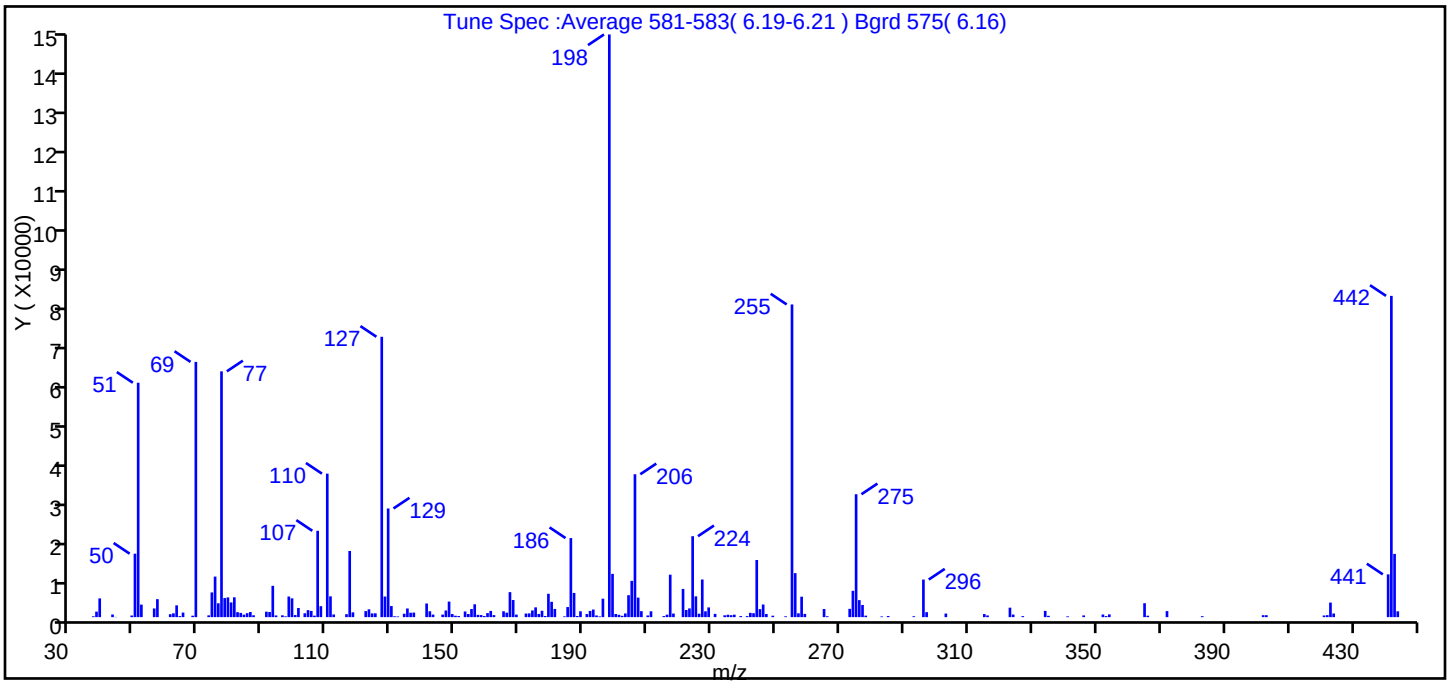
SVDFTPP50i_00023 Amount Added: 1.00 Units: mL

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		

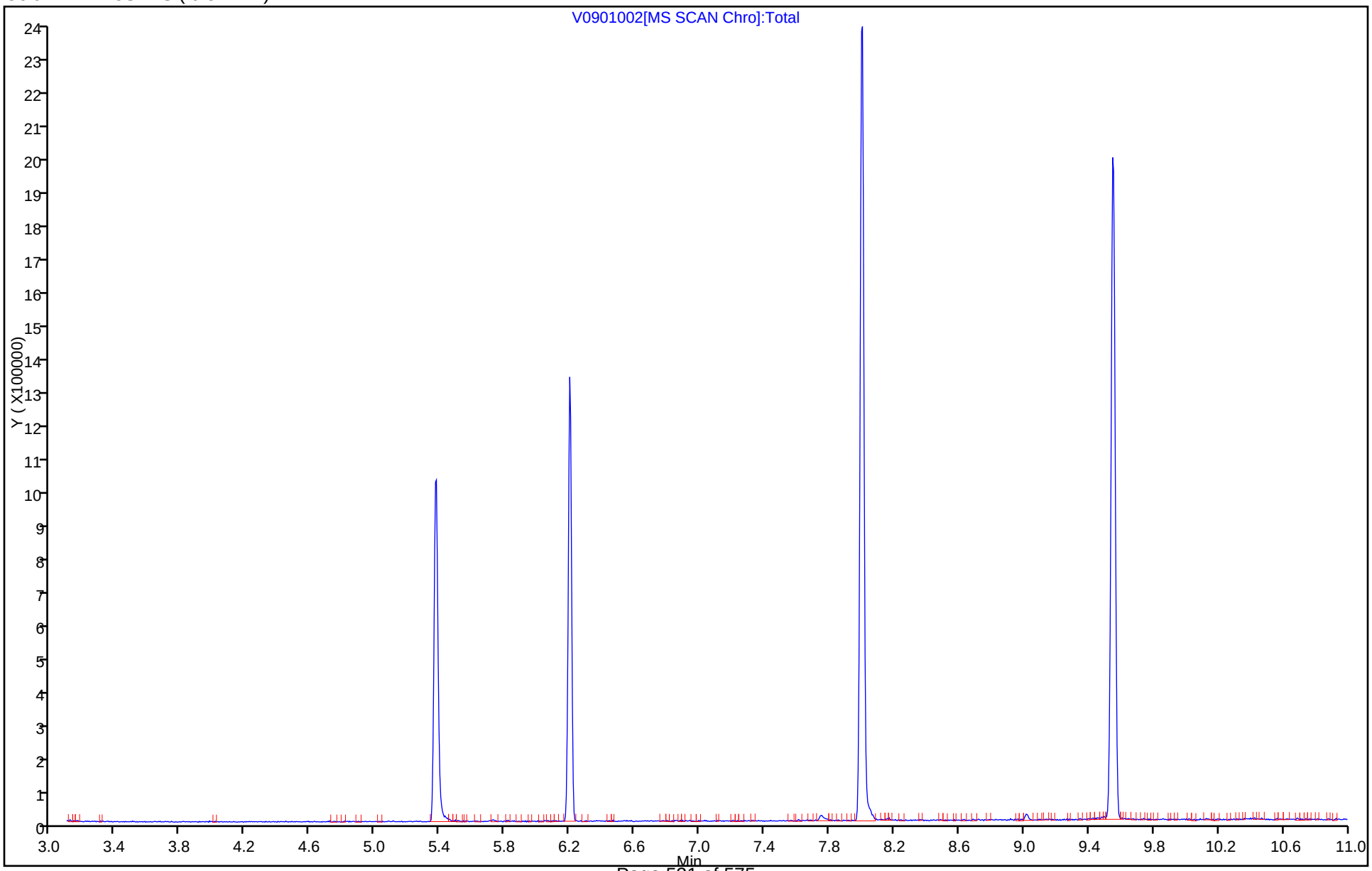
Report Date: 01-Sep-2015 04:26:23 Chrom Revision: 2.2 23-Jul-2015 08:26:08

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)

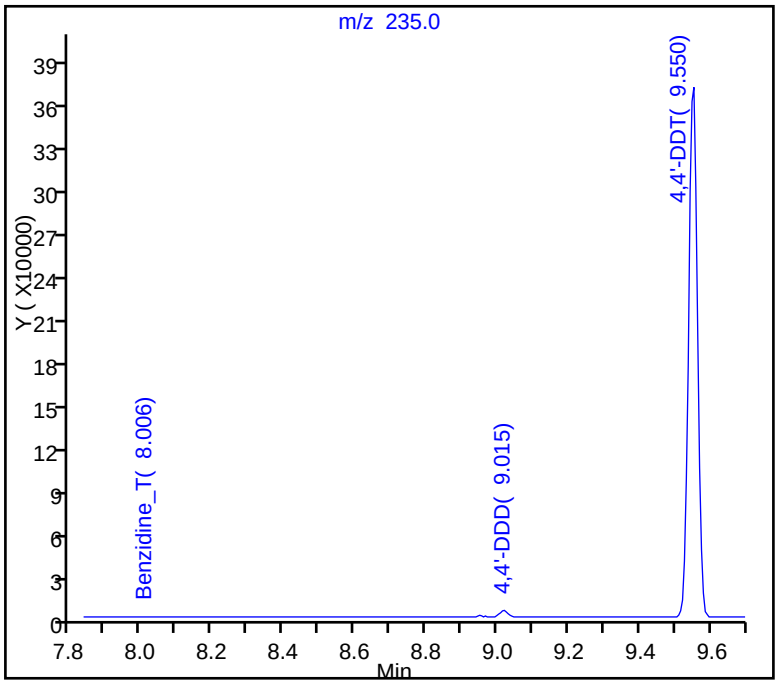


Breakdown Report

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

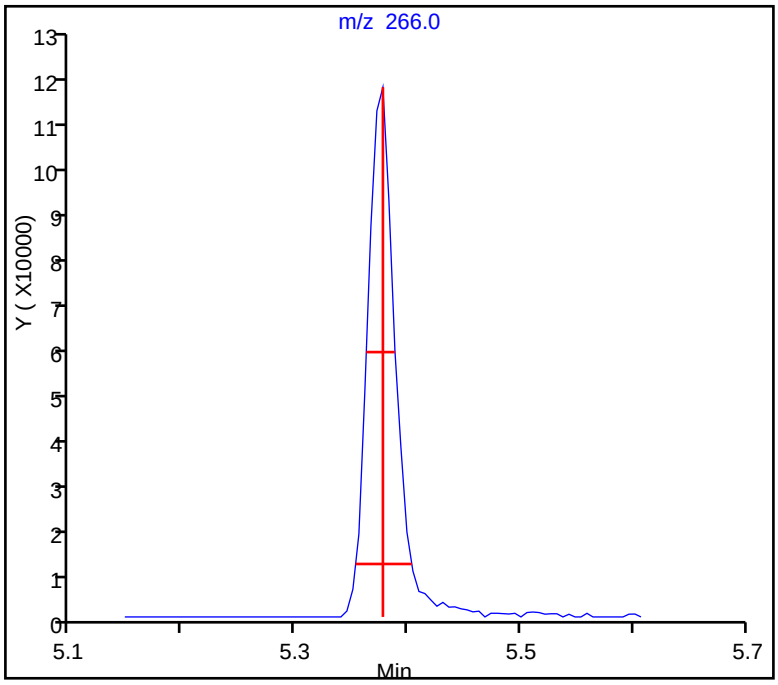
Data File: \\ChromNA\Pittsburgh\ChromData\CH731\20150831-8349.b\V0901002.D
Injection Date: 31-Aug-2015 13:24:30 Instrument ID: CH731
Lims ID: DFTPP
Client ID:
Operator ID: 003200 ALS Bottle#: 1 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: BNA_CH731 Limit Group: BNA 8270D ICAL

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

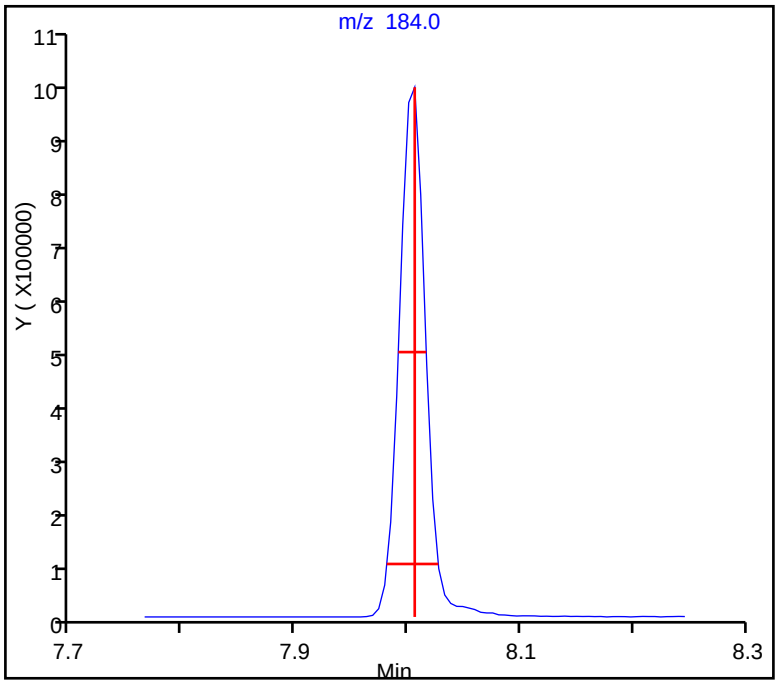
Data File: \\ChromNA\Pittsburgh\ChromData\CH731\20150831-8349.b\V0901002.D
Injection Date: 31-Aug-2015 13:24:30 Instrument ID: CH731
Lims ID: DFTPP
Client ID:
Operator ID: 003200 ALS Bottle#: 1 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: BNA_CH731 Limit Group: BNA 8270D ICAL

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\20151013-8968.b\V1013002.D
Lims ID: DFTPP
Client ID:
Sample Type: DFTPP
Inject. Date: 13-Oct-2015 10:06:30 ALS Bottle#: 1 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 180-0008968-002
Misc. Info.: DFTPP
Operator ID: 003200 Instrument ID: CH731

Method: \\ChromNA\Pittsburgh\ChromData\CH731\20151013-8968.b\BNA_CH731.m
Limit Group: BNA 8270D ICAL
Last Update: 14-Oct-2015 06:19:37 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: XAWRK013

First Level Reviewer: piccolinov Date: 13-Oct-2015 11:58:46

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
198 Pentachlorophenol_T	266	5.452	5.452	0.000	89	205592	NR	NR	
199 DFTPP									
200 Benzidine_T	184	8.075	8.075	0.000	99	1880824	NR	NR	
201 4,4'-DDE	246		8.431					ND	
202 4,4'-DDD	235	9.095	9.028	0.067	91	8013		NR	
203 4,4'-DDT	235	9.635	9.635	0.000	97	863550	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

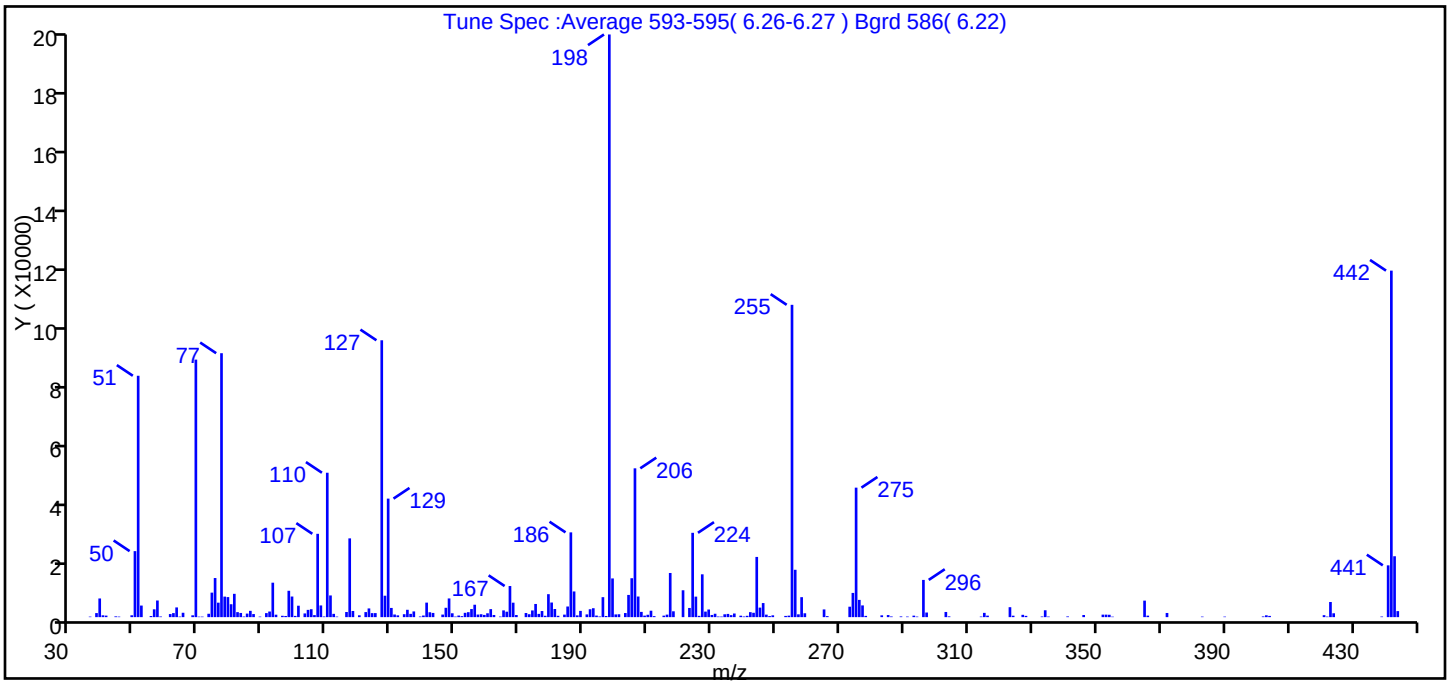
SVDFTPP50i_00023 Amount Added: 1.00 Units: mL

MS Tune Report

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CH731\20151013-8968.b\V1013002.D
Injection Date: 13-Oct-2015 10:06:30 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	41.4
68	<2% of mass 69	0.3 (0.7)
69	Present	44.2
70	<2% of mass 69	0.1 (0.2)
127	40-60% of mass 198	47.5
197	<1% of mass 198	0.2
199	5-9% of mass 198	6.6
275	10-30% of mass 198	22.2
365	>1% of mass 198	2.8
441	Present but less than mass 443	8.9 (85.1)
442	>40% of mass 198	59.5
443	17-23% of mass 442	10.5 (17.6)

Data File: \\ChromNA\Pittsburgh\ChromData\CH731\20151013-8968.b\V1013002.D\BNA_CH731.rslt\spectra.d
Injection Date: 13-Oct-2015 10:06:30
Spectrum: Tune Spec :Average 593-595(6.26-6.27) Bgrd 586(6.22)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 235

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	181	112.00	1127	184.00	863	254.00	506
38.00	1389	113.00	185	185.00	3641	255.00	106896
39.00	6392	116.00	1756	186.00	29016	256.00	16211
40.00	628	117.00	26960	187.00	8793	257.00	962
41.00	525	118.00	2105	188.00	611	258.00	6837
44.00	263	120.00	630	189.00	2139	259.00	1323
45.00	184	122.00	1729	191.00	938	265.00	2642
49.00	633	123.00	2984	192.00	2708	266.00	349
50.00	22592	124.00	1378	193.00	3054	273.00	3573
51.00	82616	125.00	1385	194.00	536	274.00	8289
52.00	3963	127.00	94760	195.00	227	275.00	44320
55.00	383	128.00	7333	196.00	6836	276.00	5904
56.00	2680	129.00	40568	197.00	392	277.00	4016
57.00	5696	130.00	3152	198.00	199424	278.00	434
58.00	218	131.00	904	199.00	13250	283.00	623
61.00	1058	132.00	611	200.00	934	285.00	716
62.00	1384	134.00	1004	201.00	988	286.00	230
63.00	3327	135.00	2517	203.00	1408	289.00	245
64.00	189	136.00	1124	204.00	7603	291.00	198
65.00	1499	137.00	1959	205.00	13319	293.00	510
68.00	625	139.00	213	206.00	50936	294.00	189
69.00	88136	140.00	553	207.00	7055	296.00	12743
70.00	167	141.00	4969	208.00	1799	297.00	1580
71.00	176	142.00	1674	209.00	520	303.00	1770
73.00	1157	143.00	1438	210.00	811	304.00	259
74.00	8388	146.00	879	211.00	2201	314.00	199
75.00	13386	147.00	3202	212.00	344	315.00	1462
76.00	4950	148.00	6401	215.00	513	316.00	514
77.00	90336	149.00	1324	216.00	859	323.00	3407
78.00	7025	150.00	187	217.00	15113	324.00	490
79.00	6865	151.00	549	218.00	2004	327.00	795
80.00	4419	152.00	341	221.00	9198	328.00	438
81.00	7981	153.00	1479	223.00	3141	333.00	216

Report Date: 14-Oct-2015 06:19:38 Chrom Revision: 2.2 08-Sep-2015 13:41:46
Data File: \\ChromNA\Pittsburgh\ChromData\CH731\20151013-8968.b\V1013002.D\BNA_CH731.rslt\spectra.d
Injection Date: 13-Oct-2015 10:06:30
Spectrum: Tune Spec :Average 593-595(6.26-6.27) Bgrd 586(6.22)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 235

m/z	Y	m/z	Y	m/z	Y	m/z	Y
82.00	1713	154.00	1696	224.00	28864	334.00	2352
83.00	1432	155.00	2769	225.00	7020	335.00	199
84.00	208	156.00	4247	226.00	447	341.00	242
85.00	1217	157.00	886	227.00	14659	346.00	725
86.00	2160	158.00	996	228.00	1898	352.00	858
87.00	1055	159.00	766	229.00	2612	353.00	859
89.00	182	160.00	1322	230.00	742	354.00	815
91.00	1381	161.00	2744	231.00	1163	355.00	168
92.00	1924	162.00	738	232.00	206	365.00	5653
93.00	11792	164.00	192	233.00	193	366.00	513
94.00	836	165.00	2316	234.00	977	372.00	1425
96.00	464	166.00	1862	235.00	1106	383.00	185
97.00	400	167.00	10650	236.00	684	390.00	178
98.00	9023	168.00	4947	237.00	1245	402.00	244
99.00	7055	169.00	726	239.00	495	403.00	634
100.00	423	172.00	1414	240.00	216	404.00	424
101.00	3912	173.00	995	241.00	460	421.00	674
103.00	1268	174.00	2289	242.00	1705	422.00	185
104.00	2487	175.00	4509	243.00	1488	423.00	5179
105.00	2714	176.00	1115	244.00	20608	424.00	1323
106.00	696	177.00	2092	245.00	3264	439.00	209
107.00	28520	178.00	469	246.00	4821	441.00	17728
108.00	4005	179.00	7859	247.00	855	442.00	118600
109.00	219	180.00	5004	248.00	370	443.00	20840
110.00	49424	181.00	2786	249.00	620	444.00	2065
111.00	7423	182.00	462	253.00	424		

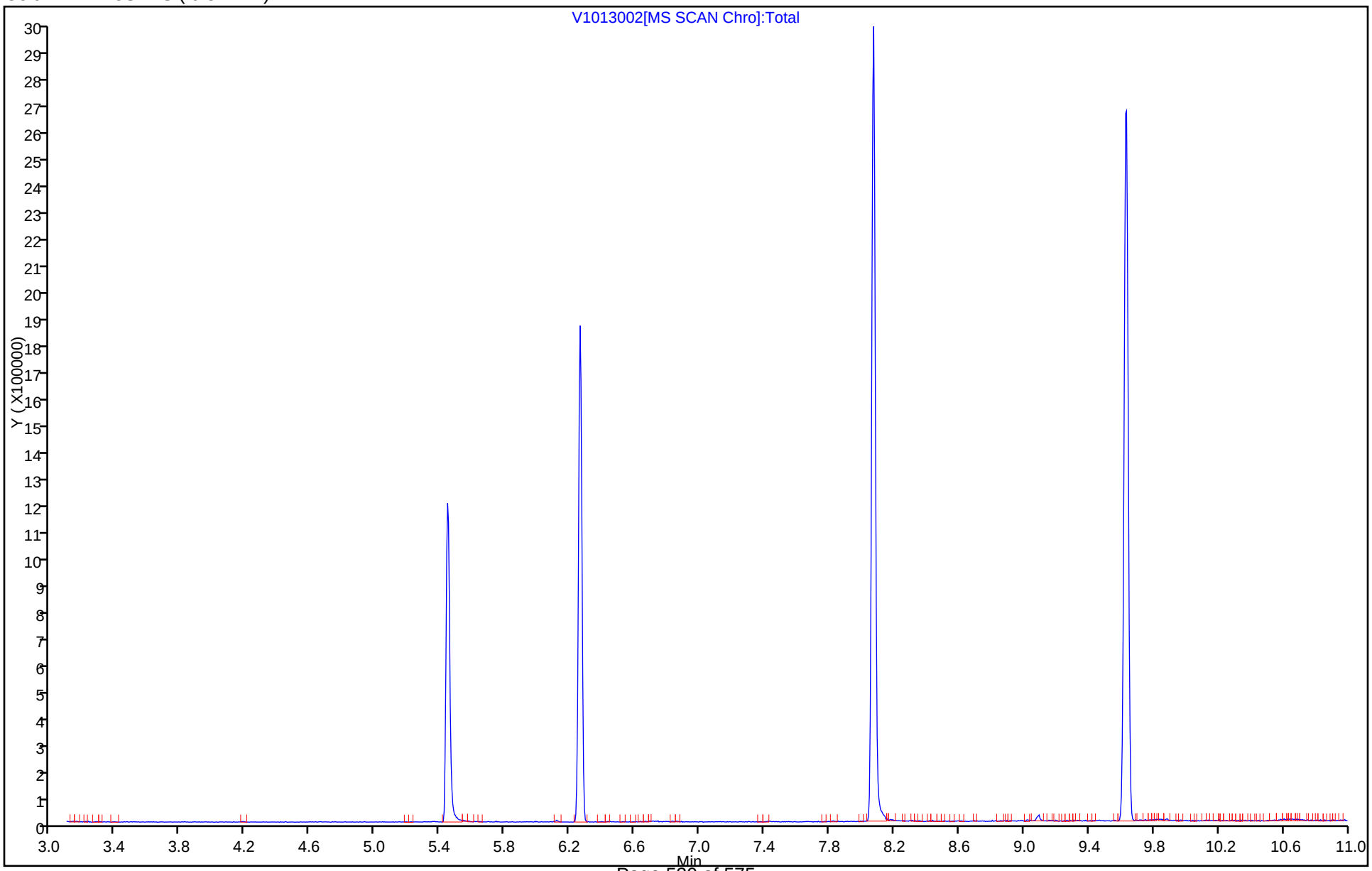
Report Date: 14-Oct-2015 06:19:38 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CH731\20151013-8968.b\V1013002.D

Injection Date:	13-Oct-2015 10:06:30	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)

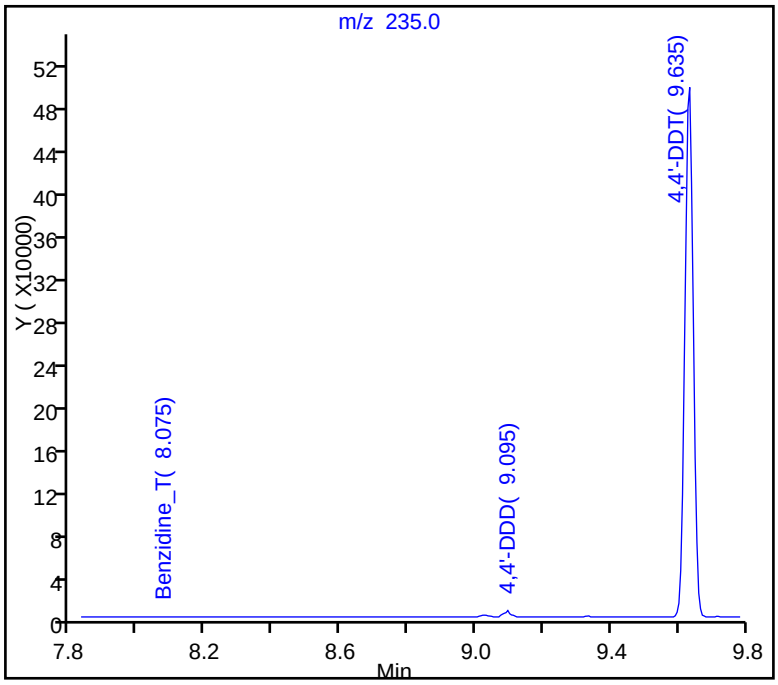


Breakdown Report

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CH731\20151013-8968.b\V1013002.D
Injection Date: 13-Oct-2015 10:06:30 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 = 863550
201 4,4'-DDE, Area = 0
202 4,4'-DDD, Area = 8013

%Breakdown: 0.92%, Max Limit: 20.00%
Passed

Peak Tailing Report

TestAmerica Pittsburgh

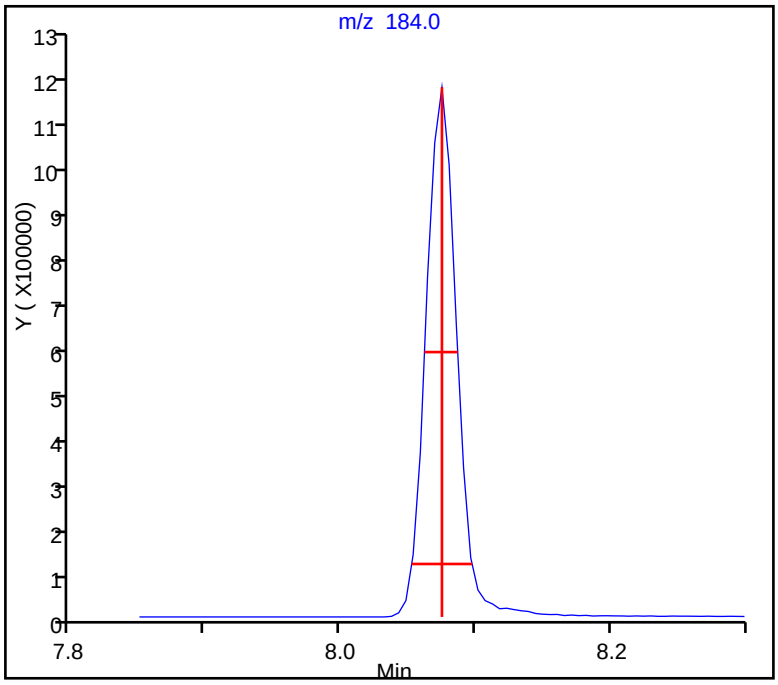
Data File: \\ChromNA\Pittsburgh\ChromData\CH731\20151013-8968.b\V1013002.D
Injection Date: 13-Oct-2015 10:06:30 Instrument ID: CH731
Lims ID: DFTPP
Client ID:
Operator ID: 003200 ALS Bottle#: 1 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: BNA_CH731 Limit Group: BNA 8270D ICAL

200 Benzidine_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.022 (min.)
Front Width = 0.022 (min.)

Tailing Factor = 1.0, Max. Tailing < 2.00
Passed



Peak Tailing Report

TestAmerica Pittsburgh

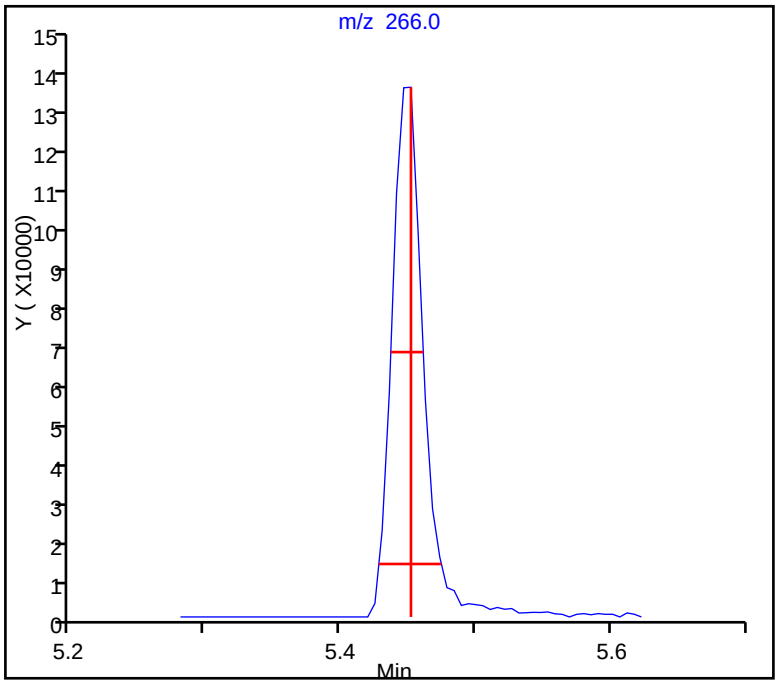
Data File: \\ChromNA\Pittsburgh\ChromData\CH731\20151013-8968.b\V1013002.D
Injection Date: 13-Oct-2015 10:06:30 Instrument ID: CH731
Lims ID: DFTPP
Client ID:
Operator ID: 003200 ALS Bottle#: 1 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: BNA_CH731 Limit Group: BNA 8270D ICAL

198 Pentachlorophenol_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.023 (min.)
Front Width = 0.024 (min.)

Tailing Factor = 0.9, Max. Tailing < 2.00
Passed



TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CH731\20151014-8999.b\V1014002.D
Lims ID: DFTPP
Client ID:
Sample Type: DFTPP
Inject. Date: 14-Oct-2015 12:13:30 ALS Bottle#: 1 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 180-0008999-002
Misc. Info.: DFTPP
Operator ID: 003200 Instrument ID: CH731

Method: \\ChromNA\Pittsburgh\ChromData\CH731\20151014-8999.b\BNA_CH731.m
Limit Group: BNA 8270D ICAL
Last Update: 15-Oct-2015 06:22:50 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: XAWRK013

First Level Reviewer: piccolinov Date: 15-Oct-2015 06:05:35

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
198 Pentachlorophenol_T	266	5.450	5.450	0.000	90	302732	NR	NR	
199 DFTPP									
200 Benzidine_T	184	8.079	8.079	0.000	99	2638754	NR	NR	
201 4,4'-DDE	246		8.430					ND	
202 4,4'-DDD	235	9.030	9.028	0.002	94	9436		NR	
203 4,4'-DDT	235	9.639	9.639	0.000	98	1203450	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

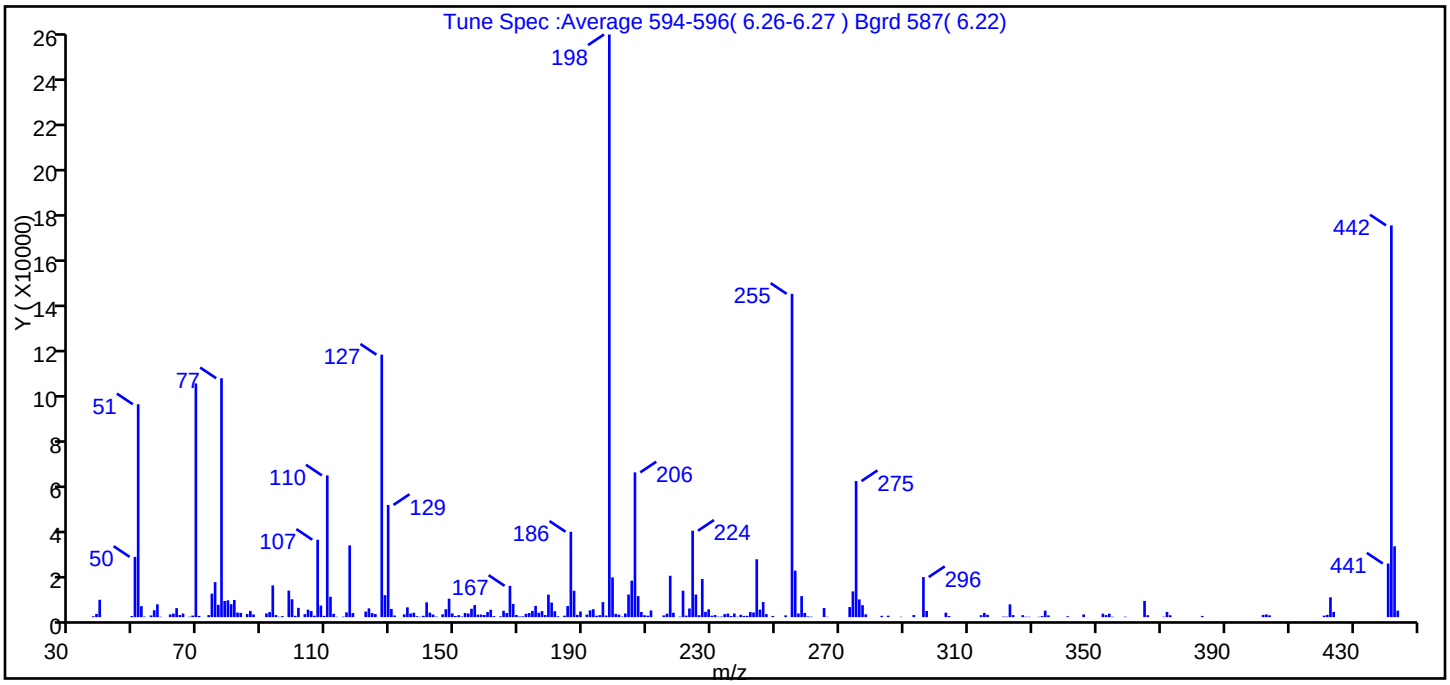
SVDFTPP50i_00023 Amount Added: 1.00 Units: mL

MS Tune Report

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CH731\20151014-8999.b\V1014002.D
Injection Date: 14-Oct-2015 12:13:30 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	36.5
68	<2% of mass 69	0.3 (0.7)
69	Present	40.1
70	<2% of mass 69	0.2 (0.5)
127	40-60% of mass 198	45.0
197	<1% of mass 198	0.3
199	5-9% of mass 198	6.8
275	10-30% of mass 198	23.3
365	>1% of mass 198	2.8
441	Present but less than mass 443	9.2 (75.6)
442	>40% of mass 198	67.2
443	17-23% of mass 442	12.2 (18.1)

Data File: \\ChromNA\Pittsburgh\ChromData\CH731\20151014-8999.b\V1014002.D\BNA_CH731.rslt\spectra.d
Injection Date: 14-Oct-2015 12:13:30
Spectrum: Tune Spec :Average 594-596(6.26-6.27) Bgrd 587(6.22)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 238

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	412	122.00	2496	188.00	1014	258.00	9344
38.00	1448	123.00	3897	189.00	2527	259.00	1871
39.00	7718	124.00	1800	191.00	1119	260.00	339
49.00	481	125.00	1378	192.00	3025	261.00	196
50.00	26768	127.00	116584	193.00	3517	265.00	4059
51.00	94568	128.00	9767	194.00	632	266.00	186
52.00	4882	129.00	49848	195.00	882	273.00	4489
53.00	246	130.00	3647	196.00	6663	274.00	11443
55.00	754	131.00	741	197.00	679	275.00	60432
56.00	3066	134.00	1222	198.00	258816	276.00	7885
57.00	5684	135.00	4351	199.00	17664	277.00	5329
58.00	178	136.00	1613	200.00	1463	278.00	1252
61.00	1214	137.00	1955	201.00	1100	283.00	586
62.00	1589	138.00	420	202.00	251	285.00	657
63.00	4020	139.00	170	203.00	1606	289.00	171
64.00	940	140.00	591	204.00	10052	293.00	928
65.00	1615	141.00	6573	205.00	16221	296.00	17808
67.00	202	142.00	2007	206.00	64312	297.00	2736
68.00	698	143.00	1176	207.00	9331	303.00	1989
69.00	103824	144.00	258	208.00	2283	304.00	489
70.00	543	146.00	1227	209.00	847	314.00	855
73.00	921	147.00	3537	210.00	638	315.00	1874
74.00	10427	148.00	8212	211.00	2985	316.00	1054
75.00	15552	149.00	1661	215.00	782	321.00	247
76.00	5479	150.00	495	216.00	1561	322.00	208
77.00	106128	151.00	897	217.00	18376	323.00	5689
78.00	7183	152.00	294	218.00	1963	324.00	906
79.00	7465	153.00	1830	220.00	229	327.00	873
80.00	5751	154.00	1617	221.00	11764	328.00	187
81.00	7624	155.00	3737	222.00	685	329.00	184
82.00	2021	156.00	5345	223.00	3854	332.00	169
83.00	1911	157.00	1099	224.00	38392	333.00	448
85.00	1370	158.00	1168	225.00	10046	334.00	2873

Report Date: 15-Oct-2015 06:22:51 Chrom Revision: 2.2 08-Sep-2015 13:41:46
Data File: \\ChromNA\Pittsburgh\ChromData\CH731\20151014-8999.b\V1014002.D\BNA_CH731.rslt\spectra.d
Injection Date: 14-Oct-2015 12:13:30
Spectrum: Tune Spec :Average 594-596(6.26-6.27) Bgrd 587(6.22)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 238

m/z	Y	m/z	Y	m/z	Y	m/z	Y
86.00	2768	159.00	969	226.00	854	335.00	777
87.00	1193	160.00	2264	227.00	16944	341.00	410
91.00	1647	161.00	3282	228.00	2342	346.00	1205
92.00	2237	162.00	459	229.00	3469	352.00	1552
93.00	14113	164.00	348	230.00	654	353.00	906
94.00	900	165.00	2835	231.00	934	354.00	1541
95.00	175	166.00	1832	232.00	201	355.00	189
96.00	450	167.00	13898	233.00	271	359.00	207
98.00	11789	168.00	5888	234.00	1338	365.00	7191
99.00	7936	169.00	940	235.00	1594	366.00	859
100.00	584	170.00	312	236.00	475	371.00	222
101.00	4122	171.00	370	237.00	1613	372.00	2334
103.00	1318	172.00	1475	238.00	181	373.00	838
104.00	3317	173.00	1826	239.00	1044	383.00	541
105.00	2714	174.00	2792	240.00	565	402.00	1011
106.00	607	175.00	5018	241.00	605	403.00	1209
107.00	34376	176.00	1941	242.00	2245	404.00	806
108.00	5137	177.00	2693	243.00	2058	421.00	664
109.00	567	178.00	922	244.00	25712	422.00	1001
110.00	62960	179.00	10000	245.00	3334	423.00	8796
111.00	9075	180.00	6491	246.00	6720	424.00	2306
112.00	1473	181.00	2646	247.00	1337	441.00	23808
113.00	174	182.00	406	249.00	548	442.00	174016
115.00	252	184.00	649	253.00	796	443.00	31472
116.00	2128	185.00	4940	255.00	143616	444.00	2890
117.00	31856	186.00	37936	256.00	20664		
118.00	1817	187.00	11735	257.00	1602		

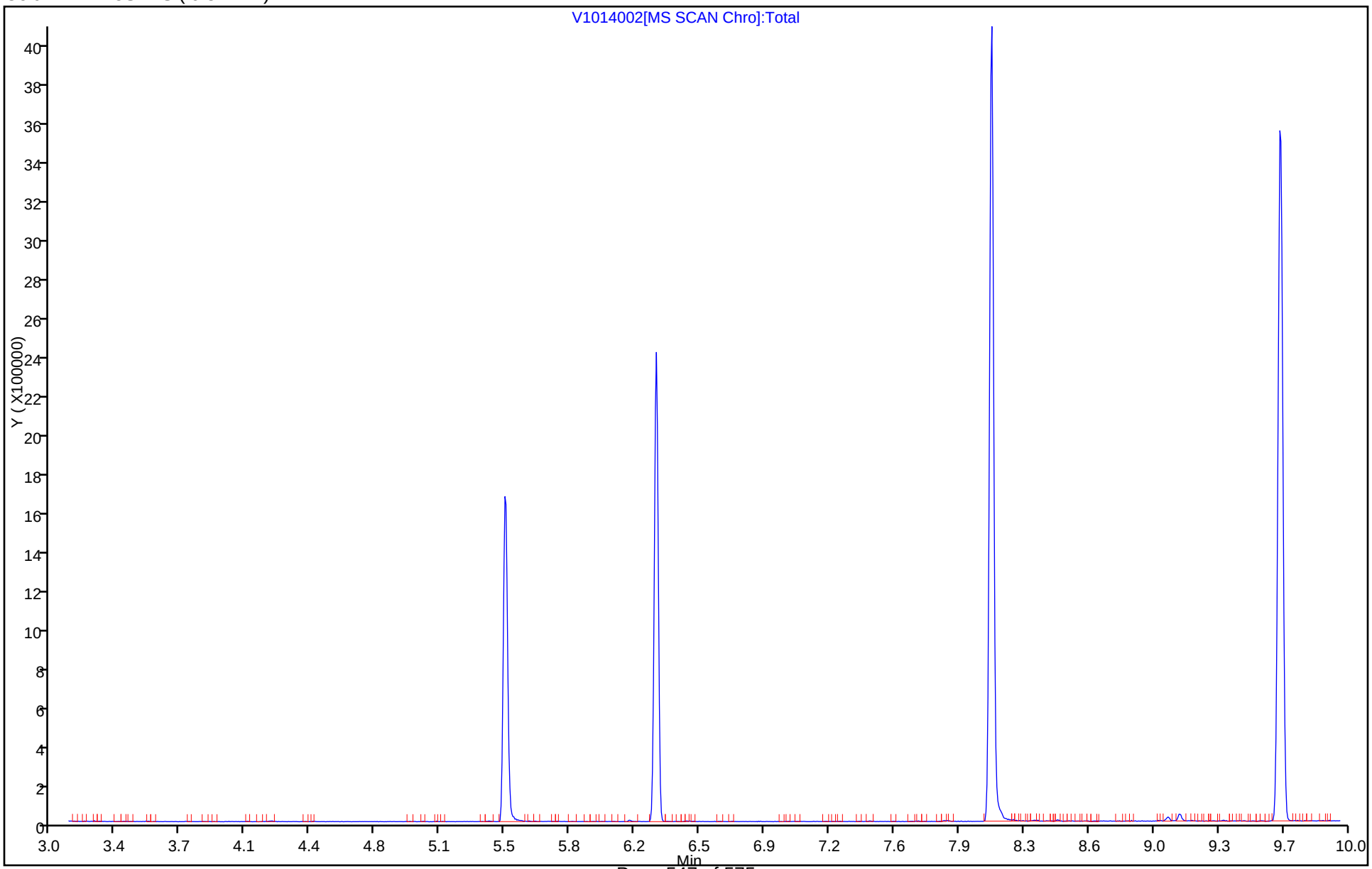
Report Date: 15-Oct-2015 06:22:51 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CH731\20151014-8999.b\V1014002.D

Injection Date:	14-Oct-2015 12:13:30	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)

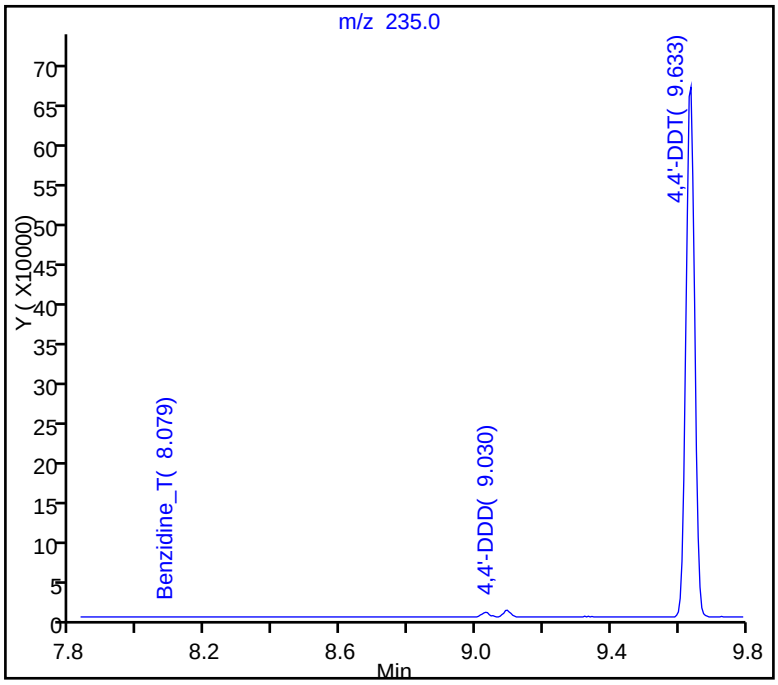


Breakdown Report

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CH731\20151014-8999.b\V1014002.D
Injection Date: 14-Oct-2015 12:13:30 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 = 1203450
201 4,4'-DDE, Area = 0
202 4,4'-DDD, Area = 9436

%Breakdown: 0.78%, Max Limit: 20.00%
Passed

Peak Tailing Report

TestAmerica Pittsburgh

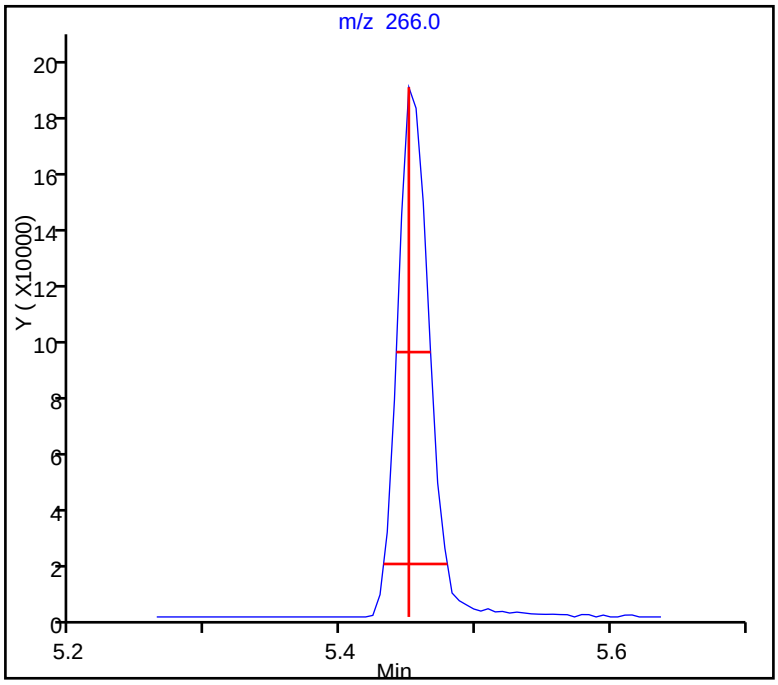
Data File: \\ChromNA\Pittsburgh\ChromData\CH731\20151014-8999.b\V1014002.D
Injection Date: 14-Oct-2015 12:13:30 Instrument ID: CH731
Lims ID: DFTPP
Client ID:
Operator ID: 003200 ALS Bottle#: 1 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: BNA_CH731 Limit Group: BNA 8270D ICAL

198 Pentachlorophenol_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.029 (min.)
Front Width = 0.019 (min.)

Tailing Factor = 1.5, Max. Tailing < 2.00
Passed



Peak Tailing Report

TestAmerica Pittsburgh

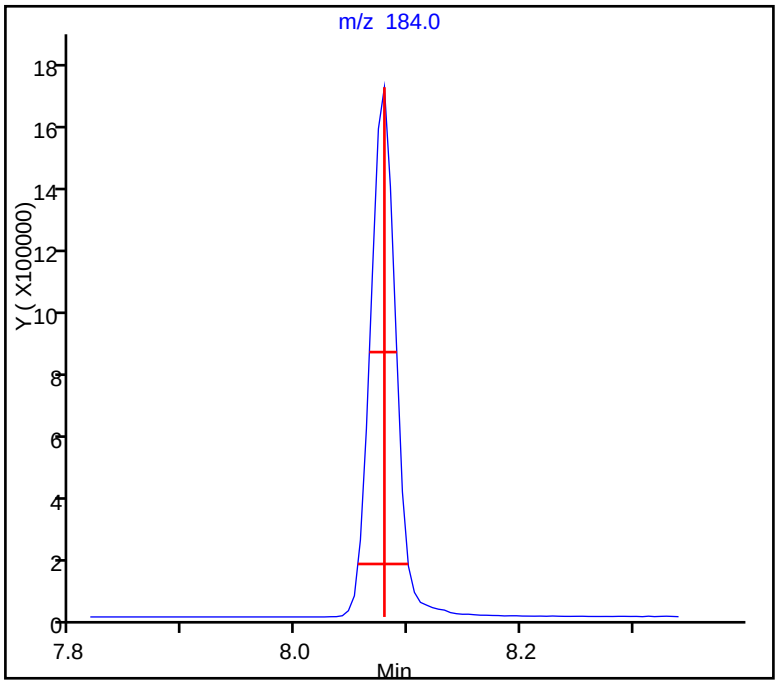
Data File: \\ChromNA\Pittsburgh\ChromData\CH731\20151014-8999.b\V1014002.D
Injection Date: 14-Oct-2015 12:13:30 Instrument ID: CH731
Lims ID: DFTPP
Client ID:
Operator ID: 003200 ALS Bottle#: 1 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: BNA_CH731 Limit Group: BNA 8270D ICAL

200 Benzidine_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.021 (min.)
Front Width = 0.024 (min.)

Tailing Factor = 0.9, Max. Tailing < 2.00
Passed



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-48435-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 180-156321/1-A

Matrix: Water | Lab File ID: V1013004.D

Analysis Method: 8270D LL | Date Collected:

Extract. Method: 3520C | Date Extracted: 10/08/2015 11:02

Sample wt/vol: 250(mL) | Date Analyzed: 10/13/2015 11:24

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.: 156809 | 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	73		28-109
367-12-4	2-Fluorophenol (Surr)	75		20-105
118-79-6	2,4,6-Tribromophenol (Surr)	59		30-118
4165-60-0	Nitrobenzene-d5 (Surr)	77		27-114
4165-62-2	Phenol-d5 (Surr)	76		25-105
1718-51-0	Terphenyl-d14 (Surr)	78		20-118

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CH731\20151013-8968.b\V1013004.D
Lims ID: MB 180-156321/1-A
Client ID:
Sample Type: MB
Inject. Date: 13-Oct-2015 11:24:30 ALS Bottle#: 3 Worklist Smp#: 4
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 180-0008968-004
Operator ID: 003200 Instrument ID: CH731

Method: \\ChromNA\Pittsburgh\ChromData\CH731\20151013-8968.b\BNA_CH731.m
Limit Group: BNA 8270D ICAL
Last Update: 14-Oct-2015 06:19:41 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: XAWRK013

First Level Reviewer: piccolinov Date: 13-Oct-2015 13:30:44

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	6.302	6.299	0.003	93	104395	8.00	8.00	
* 2 Naphthalene-d8	136	7.531	7.533	-0.002	100	417681	8.00	8.00	
* 3 Acenaphthene-d10	164	9.171	9.173	-0.002	92	265824	8.00	8.00	
* 4 Phenanthrene-d10	188	10.560	10.562	-0.002	97	497401	8.00	8.00	
* 5 Chrysene-d12	240	14.160	14.168	-0.008	97	525051	8.00	8.00	
* 6 Perylene-d12	264	17.136	17.144	-0.008	98	478641	8.00	8.00	
$ 7 2-Fluorophenol	112	4.903	4.894	0.009	92	458931	40.0	29.9	
$ 8 Phenol-d5	99	5.939	5.936	0.003	95	611642	40.0	30.5	
$ 9 Nitrobenzene-d5	82	6.836	6.839	-0.003	93	626866	40.0	30.9	
$ 10 2-Fluorobiphenyl	172	8.525	8.527	-0.003	99	1348137	40.0	29.0	
$ 11 2,4,6-Tribromophenol	330	9.903	9.905	-0.002	92	163735	40.0	23.8	
$ 12 Terphenyl-d14	244	12.371	12.373	-0.002	99	1547154	40.0	31.0	
13 1,4-Dioxane	88		1.464					ND	
14 N-Nitrosodimethylamine	74		2.127					ND	
15 Pyridine	79		2.207					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	4.903	4.597	0.307	36	1660			NC
22 Methyl methanesulfonate	80		4.638					ND	
23 Phenylmercaptan	110	4.903	5.000	-0.097	44	1969			NC
24 N-Nitrosodiethylamine	102		5.115					ND	
25 Ethyl methanesulfonate	79		5.517					ND	
26 Benzaldehyde	77		5.840					ND	
27 Phenol	94		5.946					ND	
28 Aniline	93		5.957					ND	
30 Pentachloroethane	167		6.025					ND	
29 Bis(2-chloroethyl)ether	93		6.027					ND	
31 2-Chlorophenol	128		6.085					ND	
32 n-Decane	43		6.149					ND	
33 1,3-Dichlorobenzene	146		6.240					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		6.315					ND	
35 1,2,3-Trimethylbenzene	105		6.341					ND	
36 Benzyl alcohol	108		6.433					ND	
37 1,2-Dichlorobenzene	146		6.470					ND	
38 2-Methylphenol	108		6.545					ND	
39 Indene	116		6.555					ND	
40 2,2'-oxybis[1-chloropropan	45		6.571					ND	
42 N-Nitrosomorpholine	116		6.632					ND	
41 N-Nitrosopyrrolidine	100		6.657					ND	
46 2-Toluidine	106		6.664					ND	
44 N-Nitrosodi-n-propylamine	70		6.689					ND	
45 4-Methylphenol	108		6.689					ND	
43 Acetophenone	105		6.689					ND	
194 Benzotrichloride TIC	159	10.560	6.750	3.810	0	10631			0
47 Hexachloroethane	117		6.807					ND	
48 Nitrobenzene	77		6.855					ND	
49 N-Nitrosopiperidine	114		6.926					ND	
50 Isophorone	82		7.079					ND	
51 2-Nitrophenol	139		7.164					ND	
54 o,o',o''-Triethylphosphoro	198		7.182					ND	
52 2,4-Dimethylphenol	107		7.197					ND	
53 4-Chloro-3-nitro-alpha,alp	179		7.228					ND	
56 Benzoic acid	122		7.239					ND	
55 Bis(2-chloroethoxy)methane	93		7.277					ND	
58 alpha,alpha-Dimethyl phene	58		7.353					ND	
57 2,4-Dichlorophenol	162		7.394					ND	
59 1,2,4-Trichlorobenzene	180		7.474					ND	
60 Naphthalene	128		7.554					ND	
62 4-Chloroaniline	127		7.592					ND	
63 2,6-Dichlorophenol	162		7.608					ND	
65 Hexachloropropene	213		7.627					ND	
64 Hexachlorobutadiene	225		7.672					ND	
66 Quinoline	129		7.786					ND	
68 N-Nitrosodi-n-butylamine	84		7.818					ND	
69 p-Phenylene diamine	108	7.531	7.834	-0.303	78	53183			NC
67 Caprolactam	113		7.880					ND	
71 Safrole, Total	162		8.026					ND	
70 4-Chloro-3-methylphenol	107		8.030					ND	
74 Diphenamid	168		8.200					ND	
72 2-Methylnaphthalene	142		8.201					ND	
73 Phthalic anhydride	104	8.525	8.211	0.313	34	1549			NC
75 1-Methylnaphthalene	142		8.292					ND	
76 Hexachlorocyclopentadiene	237		8.350					ND	
77 1,2,4,5-Tetrachlorobenzene	216		8.356					ND	
78 2,4,6-Trichlorophenol	196		8.452					ND	
79 2,4,5-Trichlorophenol	196		8.489					ND	
80 1,1'-Biphenyl	154		8.623					ND	
83 1-Chloronaphthalene	162		8.648					ND	
81 2-Chloronaphthalene	162		8.655					ND	
82 2-Nitroaniline	65		8.730					ND	
84 1,4-Dinitrobenzene	168	8.525	8.769	-0.245	31	16538			NC
85 1,4-Naphthoquinone	158	8.525	8.771	-0.247	44	2208			NC

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
86 Dimethyl phthalate	163		8.885					ND	
87 1,3-Dinitrobenzene	168		8.917					ND	
88 2,6-Dinitrotoluene	165		8.943					ND	
89 Acenaphthylene	152		9.045					ND	
90 3-Nitroaniline	138		9.109					ND	
91 Acenaphthene	153		9.205					ND	
92 2,4-Dinitrophenol	184		9.205					ND	
93 4-Nitrophenol	109		9.243					ND	
96 Pentachlorobenzene	250		9.299					ND	
94 2,4-Dinitrotoluene	165		9.323					ND	
98 1-Naphthylamine	143		9.340					ND	
95 Dibenzofuran	168		9.360					ND	
97 2,3,5,6-Tetrachlorophenol	232		9.430					ND	
99 2,3,4,6-Tetrachlorophenol	232		9.472					ND	
100 2-Naphthylamine	143		9.499					ND	
101 Diethyl phthalate	149		9.531					ND	
102 Hexadecane	57		9.536					ND	
107 N-Nitro-o-toluidine	152	9.897	9.586	0.311	41	2847			NC
103 4-tert-Octylphenol	135		9.611					ND	
104 4-Chlorophenyl phenyl ethe	204		9.665					ND	
105 4-Nitroaniline	138		9.675					ND	
110 Diphenylamine	169		9.677					ND	
106 Fluorene	166		9.681					ND	
108 4,6-Dinitro-2-methylphenol	198		9.702					ND	
109 N-Nitrosodiphenylamine	169		9.766					ND	
111 1,2-Diphenylhydrazine	77		9.809					ND	
61 Azobenzene	77		9.809					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		10.119					ND	
118 Hexachlorobenzene	284		10.204					ND	
119 Atrazine	200		10.231					ND	
120 4-Aminobiphenyl	169	9.897	10.265	-0.367	56	7413			NC
123 Pronamide	173	9.897	10.297	-0.400	56	4222			NC
124 Pentachloronitrobenzene	237		10.302					ND	
122 Pentachlorophenol	266		10.375					ND	
121 n-Octadecane	57		10.380					ND	
125 Disulfoton	88		10.419					ND	
127 Dinoseb	211		10.475					ND	
126 Phenanthrene	178		10.583					ND	
129 Hexachlorophene TIC	198		10.600					ND	
128 Anthracene	178		10.637					ND	
130 Carbazole	167		10.776					ND	
131 Methyl parathion	109		10.793					ND	
132 Di-n-butyl phthalate	149		11.080					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		11.903					ND	
138 Benzidine	184		12.031					ND	
139 Pyrene	202		12.213					ND	
140 1,2,3,4 -Tetrachlorobenzen	216		12.215					ND	
141 p-Dimethylamino azobenzene	225	12.376	12.428	-0.052	44	8854			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		13.089					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		14.072					ND	
151 Bis(2-ethylhexyl) phthalat	149		14.115					ND	
152 Benzo[a]anthracene	228		14.147					ND	
153 Chrysene	228		14.216					ND	
154 Sulfotepp	97		14.530					ND	
155 6-Methylchrysene	242		14.907					ND	
156 Di-n-octyl phthalate	149		15.445					ND	
157 7,12-Dimethylbenz(a)anthra	256		16.310					ND	
158 Benzo[b]fluoranthene	252		16.332					ND	
159 Benzo[k]fluoranthene	252		16.390					ND	
176 Benzo[e]pyrene	252		16.919					ND	
160 Benzo[a]pyrene	252		17.026					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		19.414					ND	
164 Dibenz(a,h)anthracene	278		19.446					ND	
165 Benzo[g,h,i]perylene	276		20.028					ND	
171 Diallate Peak 2	86		0.000					ND	
170 2-Chlorobenzoic Acid	139		0.000					ND	
193 1,2,3,4-Tetrahydronaphthal	104		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	
178 1-Phenyl-1-(2,4-dimethylph	1		0.000					ND	
181 Isosafrole	162		0.000					ND	
196 Trifluralin	306		0.000					ND	
188 Carbaryl	144		0.000					ND	
191 2,3-Dichlorophenol	162		0.000					ND	
169 Diallate Peak 1	86		0.000					ND	
173 3-Methylphenol	1		0.000					ND	
166 2,5-Dichlorophenol	162		0.000					ND	
167 o-Phenylphenol	1		0.000					ND	
180 Aramite Peak 1	185		0.000					ND	
183 Octachlorocyclopentene	307		0.000					ND	
189 Benzotrichloride	159		0.000					ND	
172 4-Chlorophenol	128		0.000					ND	
168 4-Methyl-1-cyclohexanemeth	97		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	
182 Aramite Peak 2	185		0.000					ND	
179 4-Nitrobiphenyl	199		0.000					ND	
184 3-Chlorobenzoic Acid	139		0.000					ND	
177 1-Phenyl-1-(4-methylphenyl	1		0.000					ND	
198 Pentachlorophenol_T	266		5.452					ND	
200 Benzidine_T	184		8.075					ND	
201 4,4'-DDE	246		8.431					ND	
202 4,4'-DDD	235		9.028					ND	
203 4,4'-DDT	235		9.635					ND	
S 204 Aramite, Total	185		1.000					ND	
S 207 4-Methyl-1-cyclohexanemeth	97		0.000					ND	
S 208 Methyl Phenols,Total	108		0.000					ND	
S 205 Diallate	86		0.000					ND	
S 206 Total Cresols	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	12.365	11.467	0.865	0	15864		0.4774	
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

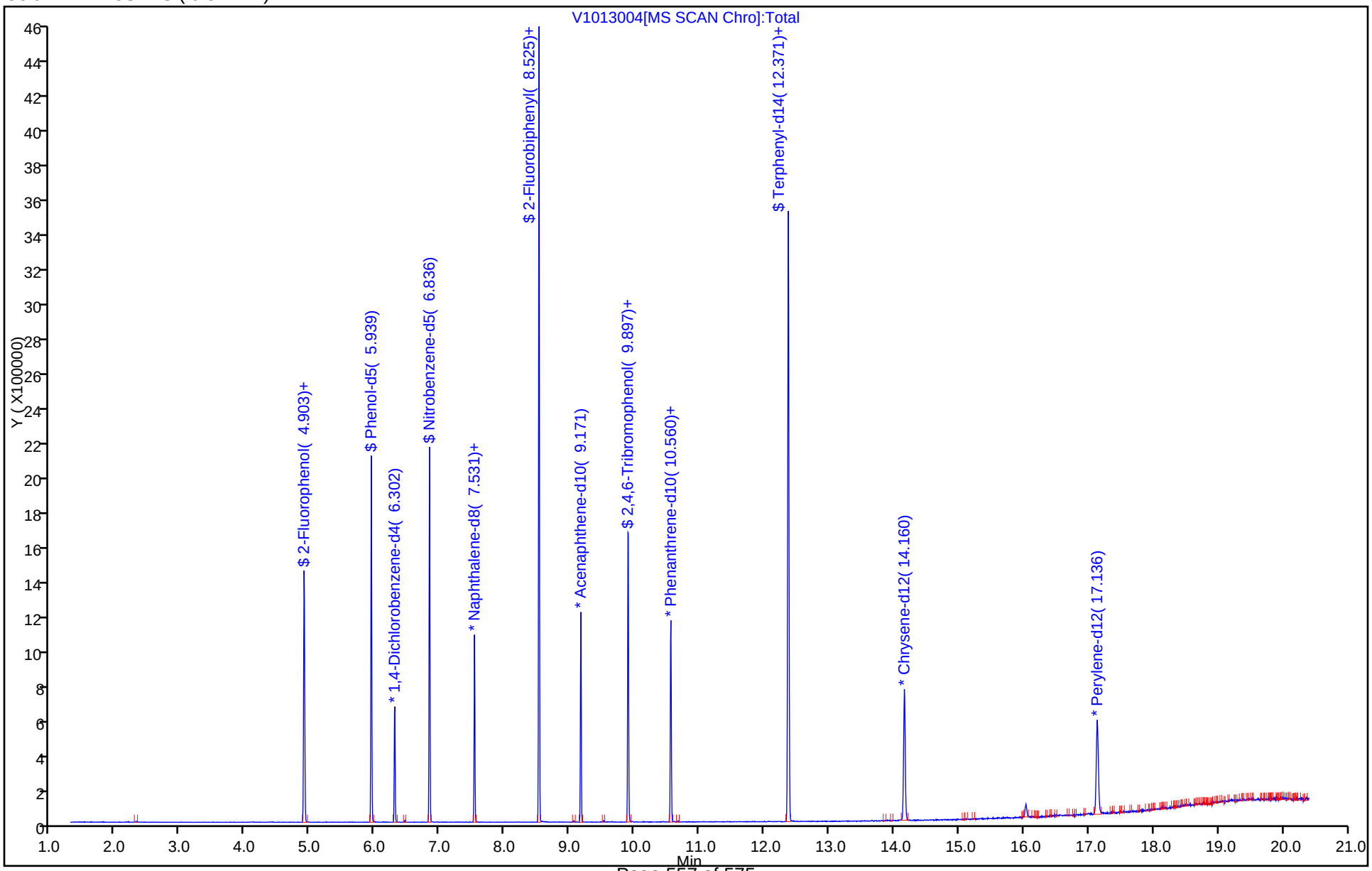
Report Date: 14-Oct-2015 06:19:49 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CH731\20151013-8968.b\V1013004.D

Injection Date:	13-Oct-2015 11:24:30	Instrument ID:	CH731	Operator ID:	003200
Lims ID:	MB 180-156321/1-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.: 180-48435-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 180-156321/2-A

Matrix: Water | Lab File ID: V1013005.D

Analysis Method: 8270D LL | Date Collected:

Extract. Method: 3520C | Date Extracted: 10/08/2015 11:02

Sample wt/vol: 250(mL) | Date Analyzed: 10/13/2015 11:52

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.: 156809 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	7.52		2.0	0.052

CAS NO.	SURROGATE	%REC	Q	LIMITS
321-60-8	2-Fluorobiphenyl	63		28-109
367-12-4	2-Fluorophenol (Surr)	63		20-105
118-79-6	2,4,6-Tribromophenol (Surr)	67		30-118
4165-60-0	Nitrobenzene-d5 (Surr)	67		27-114
4165-62-2	Phenol-d5 (Surr)	64		25-105
1718-51-0	Terphenyl-d14 (Surr)	70		20-118

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CH731\20151013-8968.b\V1013005.D
Lims ID: LCS 180-156321/2-A
Client ID:
Sample Type: LCS
Inject. Date: 13-Oct-2015 11:52:30 ALS Bottle#: 4 Worklist Smp#: 5
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 180-0008968-005
Operator ID: 003200 Instrument ID: CH731

Method: \\ChromNA\Pittsburgh\ChromData\CH731\20151013-8968.b\BNA_CH731.m
Limit Group: BNA 8270D ICAL
Last Update: 14-Oct-2015 06:19:41 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: XAWRK013

First Level Reviewer: piccolinov Date: 14-Oct-2015 06:06:26

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	6.299	0.002	93	113903	8.00	8.00	
* 2 Naphthalene-d8	136	7.530	7.533	-0.003	100	455423	8.00	8.00	
* 3 Acenaphthene-d10	164	9.170	9.173	-0.003	91	302513	8.00	8.00	
* 4 Phenanthrene-d10	188	10.559	10.562	-0.004	97	588918	8.00	8.00	
* 5 Chrysene-d12	240	14.164	14.168	-0.004	97	642742	8.00	8.00	
* 6 Perylene-d12	264	17.129	17.144	-0.015	98	610677	8.00	8.00	
$ 7 2-Fluorophenol	112	4.907	4.894	0.013	93	422877	40.0	25.2	
$ 8 Phenol-d5	99	5.943	5.936	0.007	94	557141	40.0	25.4	
$ 9 Nitrobenzene-d5	82	6.840	6.839	0.001	92	589513	40.0	26.6	
$ 10 2-Fluorobiphenyl	172	8.529	8.527	0.001	100	1326884	40.0	25.1	
$ 11 2,4,6-Tribromophenol	330	9.901	9.905	-0.004	93	219545	40.0	26.9	
$ 12 Terphenyl-d14	244	12.369	12.373	-0.004	99	1699743	40.0	27.8	
13 1,4-Dioxane	88	1.493	1.464	0.029	89	86936	40.0	15.0	
14 N-Nitrosodimethylamine	74	2.161	2.127	0.034	86	185794	40.0	25.3	
15 Pyridine	79	2.219	2.207	0.012	95	371161	40.0	27.0	
26 Benzaldehyde	77	5.847	5.840	0.007	92	192141	40.0	16.9	
27 Phenol	94	5.954	5.946	0.008	96	616581	40.0	25.8	
28 Aniline	93	5.964	5.957	0.007	96	661651	40.0	24.5	
29 Bis(2-chloroethyl)ether	93	6.034	6.027	0.007	95	419707	40.0	25.4	
31 2-Chlorophenol	128	6.092	6.085	0.007	96	510851	40.0	25.2	
32 n-Decane	43	6.157	6.149	0.008	88	478012	40.0	24.7	
33 1,3-Dichlorobenzene	146	6.247	6.240	0.007	95	566107	40.0	24.3	
34 1,4-Dichlorobenzene	146	6.317	6.315	0.002	92	587402	40.0	24.7	
36 Benzyl alcohol	108	6.434	6.433	0.001	88	300893	40.0	24.8	
37 1,2-Dichlorobenzene	146	6.472	6.470	0.002	94	561591	40.0	24.6	
38 2-Methylphenol	108	6.547	6.545	0.002	97	454058	40.0	25.8	
39 Indene	116	6.557	6.555	0.002	89	829478	40.0	24.3	
40 2,2'-oxybis[1-chloropropan	45	6.573	6.571	0.002	89	599353	40.0	24.7	
44 N-Nitrosodi-n-propylamine	70	6.691	6.689	0.002	72	352838	40.0	27.3	
45 4-Methylphenol	108	6.691	6.689	0.002	64	483110	40.0	26.0	
43 Acetophenone	105	6.691	6.689	0.002	77	664053	40.0	24.8	
47 Hexachloroethane	117	6.808	6.807	0.001	91	253823	40.0	24.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
48 Nitrobenzene	77	6.856	6.855	0.001	91	567669	40.0	26.2	
50 Isophorone	82	7.081	7.079	0.002	98	966379	40.0	27.2	
51 2-Nitrophenol	139	7.166	7.164	0.002	97	286496	40.0	26.3	
52 2,4-Dimethylphenol	107	7.193	7.197	-0.003	98	571765	40.0	27.0	
56 Benzoic acid	122	7.262	7.239	0.023	89	275250	40.0	28.3	
55 Bis(2-chloroethoxy)methane	93	7.278	7.277	0.001	97	555189	40.0	25.9	
57 2,4-Dichlorophenol	162	7.391	7.394	-0.003	95	484630	40.0	26.7	
59 1,2,4-Trichlorobenzene	180	7.476	7.474	0.002	94	573003	40.0	26.2	
60 Naphthalene	128	7.551	7.554	-0.003	98	1610463	40.0	26.0	
62 4-Chloroaniline	127	7.588	7.592	-0.004	96	663022	40.0	25.9	
63 2,6-Dichlorophenol	162	7.604	7.608	-0.004	95	479885	40.0	26.4	
64 Hexachlorobutadiene	225	7.674	7.672	0.002	97	368018	40.0	26.4	
67 Caprolactam	113	7.887	7.880	0.007	75	144049	40.0	26.4	
70 4-Chloro-3-methylphenol	107	8.026	8.030	-0.004	96	498699	40.0	27.7	
72 2-Methylnaphthalene	142	8.197	8.201	-0.004	91	1146904	40.0	26.0	
75 1-Methylnaphthalene	142	8.288	8.292	-0.004	92	1005255	40.0	25.9	
76 Hexachlorocyclopentadiene	237	8.347	8.350	-0.003	96	412885	40.0	25.4	
77 1,2,4,5-Tetrachlorobenzene	216	8.358	8.356	0.002	98	609671	40.0	25.4	
78 2,4,6-Trichlorophenol	196	8.454	8.452	0.002	93	399527	40.0	26.7	
79 2,4,5-Trichlorophenol	196	8.486	8.489	-0.003	93	421109	40.0	26.8	
80 1,1'-Biphenyl	154	8.625	8.623	0.002	94	1476023	40.0	25.3	
81 2-Chloronaphthalene	162	8.651	8.655	-0.004	97	1160146	40.0	25.3	
82 2-Nitroaniline	65	8.732	8.730	0.002	82	359376	40.0	27.7	
86 Dimethyl phthalate	163	8.881	8.885	-0.004	98	1317632	40.0	26.9	
87 1,3-Dinitrobenzene	168	8.918	8.917	0.001	86	220470	40.0	28.3	
88 2,6-Dinitrotoluene	165	8.945	8.943	0.002	93	301891	40.0	27.2	
89 Acenaphthylene	152	9.041	9.045	-0.004	98	1791022	40.0	25.4	
90 3-Nitroaniline	138	9.105	9.109	-0.004	91	329257	40.0	27.7	
91 Acenaphthene	153	9.202	9.205	-0.003	88	1156330	40.0	25.9	
92 2,4-Dinitrophenol	184	9.202	9.205	-0.003	85	398792	80.0	52.9	
93 4-Nitrophenol	109	9.239	9.243	-0.004	81	481293	80.0	60.5	
94 2,4-Dinitrotoluene	165	9.319	9.323	-0.004	92	432424	40.0	29.0	
95 Dibenzofuran	168	9.362	9.360	0.002	96	1726185	40.0	26.0	
99 2,3,4,6-Tetrachlorophenol	232	9.469	9.472	-0.003	73	387558	40.0	26.4	
101 Diethyl phthalate	149	9.527	9.531	-0.004	98	1401717	40.0	27.4	
102 Hexadecane	57	9.533	9.536	-0.003	96	802165	40.0	26.9	
104 4-Chlorophenyl phenyl ethe	204	9.661	9.665	-0.004	91	761863	40.0	27.7	
105 4-Nitroaniline	138	9.672	9.675	-0.003	84	349563	40.0	27.8	
106 Fluorene	166	9.677	9.681	-0.004	94	1433287	40.0	26.3	
108 4,6-Dinitro-2-methylphenol	198	9.704	9.702	0.002	87	589392	80.0	58.7	
109 N-Nitrosodiphenylamine	169	9.763	9.766	-0.003	62	2136391	80.0	52.3	
111 1,2-Diphenylhydrazine	77	9.805	9.809	-0.004	99	1444129	40.0	26.1	
61 Azobenzene	77	9.805	9.809	-0.004	98	1444129	40.0	26.1	
116 4-Bromophenyl phenyl ether	248	10.115	10.119	-0.004	67	463158	40.0	28.0	
118 Hexachlorobenzene	284	10.201	10.204	-0.003	95	491323	40.0	27.3	
119 Atrazine	200	10.233	10.231	0.002	94	405119	40.0	25.2	
122 Pentachlorophenol	266	10.372	10.375	-0.003	91	588057	80.0	47.7	
121 n-Octadecane	57	10.377	10.380	-0.003	96	875568	40.0	26.7	
126 Phenanthrene	178	10.580	10.583	-0.003	97	2355938	40.0	26.3	
128 Anthracene	178	10.633	10.637	-0.004	97	2338503	40.0	26.1	
130 Carbazole	167	10.778	10.776	0.002	96	2094832	40.0	26.6	
132 Di-n-butyl phthalate	149	11.077	11.080	-0.003	100	2478131	40.0	27.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
137 Fluoranthene	202	11.899	11.903	-0.004	96	2615170	40.0	27.3	
138 Benzidine	184	12.028	12.031	-0.003	99	383453	40.0	9.44	
139 Pyrene	202	12.209	12.213	-0.004	98	2662425	40.0	26.9	
144 Butyl benzyl phthalate	149	13.080	13.089	-0.009	98	1126889	40.0	28.3	
149 3,3'-Dichlorobenzidine	252	14.063	14.072	-0.009	74	829667	40.0	23.7	
151 Bis(2-ethylhexyl) phthalat	149	14.106	14.115	-0.009	96	1565694	40.0	28.4	
152 Benzo[a]anthracene	228	14.143	14.147	-0.004	97	2488658	40.0	26.5	
153 Chrysene	228	14.213	14.216	-0.003	96	2459930	40.0	28.0	
156 Di-n-octyl phthalate	149	15.436	15.445	-0.009	99	2711012	40.0	27.5	
158 Benzo[b]fluoranthene	252	16.328	16.332	-0.004	96	2403875	40.0	25.4	
159 Benzo[k]fluoranthene	252	16.381	16.390	-0.009	98	2628478	40.0	27.8	
160 Benzo[a]pyrene	252	17.017	17.026	-0.009	76	2434514	40.0	27.0	
163 Indeno[1,2,3-cd]pyrene	276	19.410	19.414	-0.004	99	2773477	40.0	27.0	
164 Dibenz(a,h)anthracene	278	19.437	19.446	-0.009	87	2358256	40.0	27.1	
165 Benzo[g,h,i]perylene	276	20.030	20.028	0.002	93	2427124	40.0	27.1	
S 208 Methyl Phenols,Total	108				0		80.0	51.8	
S 206 Total Cresols	108				0		80.0	51.8	

Reagents:

SVTAPITINTRNi_00009 Amount Added: 1.00 Units: uL Run Reagent

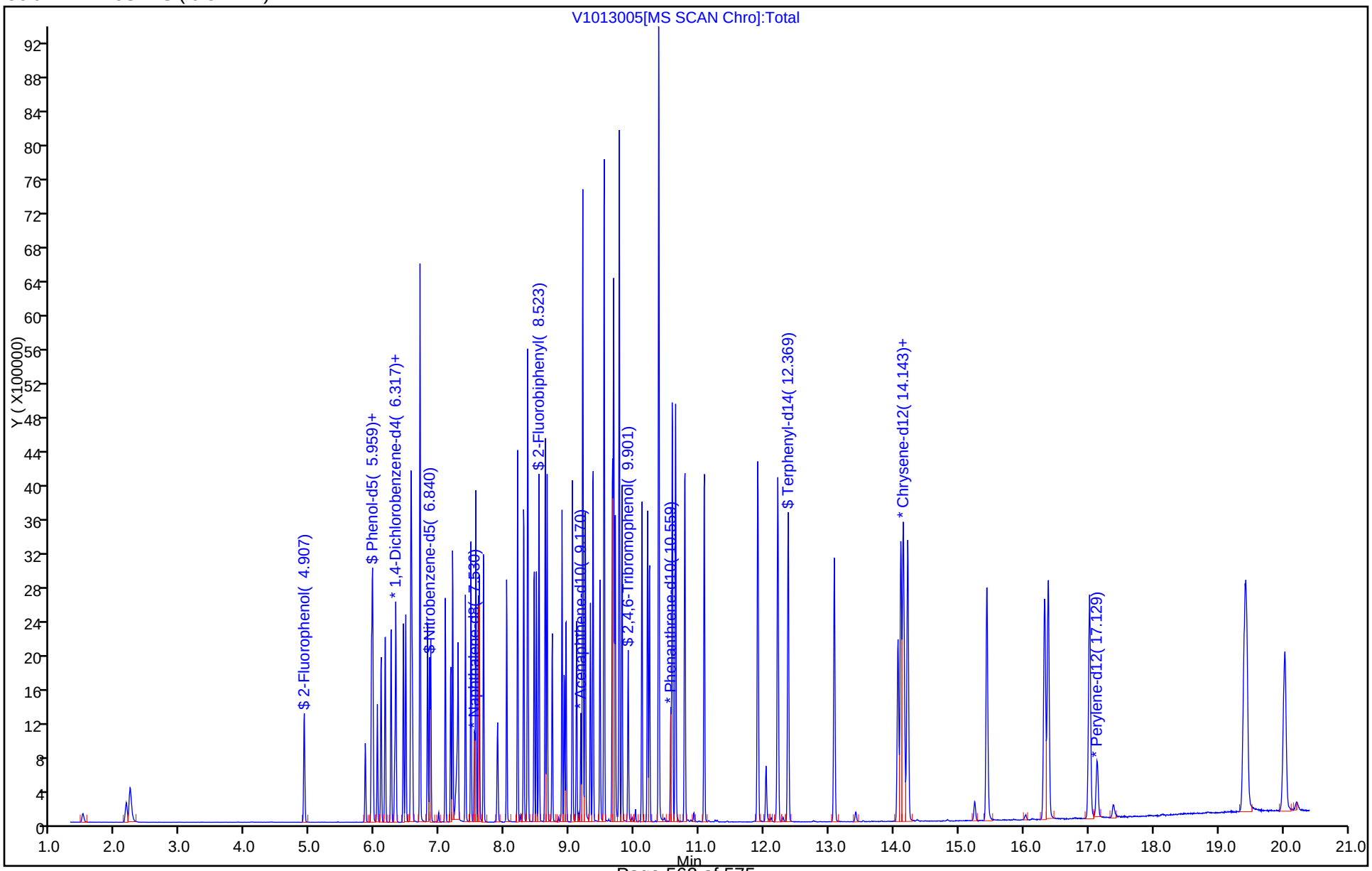
Report Date: 14-Oct-2015 06:19:52 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CH731\20151013-8968.b\V1013005.D

Injection Date:	13-Oct-2015 11:52:30	Instrument ID:	CH731	Operator ID:	003200
Lims ID:	LCS 180-156321/2-A			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)



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-48435-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCSD 180-156321/3-A

Matrix: Water | Lab File ID: V1013006.D

Analysis Method: 8270D LL | Date Collected:

Extract. Method: 3520C | Date Extracted: 10/08/2015 11:02

Sample wt/vol: 250(mL) | Date Analyzed: 10/13/2015 12:21

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.: 156809 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	7.02	*	2.0	0.052

CAS NO.	SURROGATE	%REC	Q	LIMITS
321-60-8	2-Fluorobiphenyl	62		28-109
367-12-4	2-Fluorophenol (Surr)	62		20-105
118-79-6	2,4,6-Tribromophenol (Surr)	67		30-118
4165-60-0	Nitrobenzene-d5 (Surr)	64		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\20151013-8968.b\V1013006.D
Lims ID: LCSD 180-156321/3-A
Client ID:
Sample Type: LCSD
Inject. Date: 13-Oct-2015 12:21:30 ALS Bottle#: 5 Worklist Smp#: 6
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 180-0008968-006
Operator ID: 003200 Instrument ID: CH731

Method: \\ChromNA\Pittsburgh\ChromData\CH731\20151013-8968.b\BNA_CH731.m
Limit Group: BNA 8270D ICAL
Last Update: 14-Oct-2015 06:19:41 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: XAWRK013

First Level Reviewer: piccolinov Date: 14-Oct-2015 06:06:51

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	6.304	6.299	0.005	93	122221	8.00	8.00	
* 2 Naphthalene-d8	136	7.533	7.533	0.000	100	492315	8.00	8.00	
* 3 Acenaphthene-d10	164	9.173	9.173	0.000	92	322698	8.00	8.00	
* 4 Phenanthrene-d10	188	10.557	10.562	-0.005	97	636396	8.00	8.00	
* 5 Chrysene-d12	240	14.163	14.168	-0.005	96	668399	8.00	8.00	
* 6 Perylene-d12	264	17.133	17.144	-0.011	98	641882	8.00	8.00	
$ 7 2-Fluorophenol	112	4.905	4.894	0.011	92	446719	40.0	24.8	
$ 8 Phenol-d5	99	5.941	5.936	0.005	94	597885	40.0	25.4	
$ 9 Nitrobenzene-d5	82	6.839	6.839	0.000	92	613137	40.0	25.6	
$ 10 2-Fluorobiphenyl	172	8.527	8.527	0.000	100	1397518	40.0	24.8	
$ 11 2,4,6-Tribromophenol	330	9.905	9.905	0.000	93	236920	40.0	26.9	
$ 12 Terphenyl-d14	244	12.373	12.373	0.000	99	1801474	40.0	28.4	
13 1,4-Dioxane	88	1.486	1.464	0.022	88	87036	40.0	14.0	
14 N-Nitrosodimethylamine	74	2.159	2.127	0.032	83	185298	40.0	23.5	
15 Pyridine	79	2.212	2.207	0.005	95	363310	40.0	24.6	
26 Benzaldehyde	77	5.845	5.840	0.005	92	219586	40.0	18.0	
27 Phenol	94	5.957	5.946	0.011	92	650724	40.0	25.4	
28 Aniline	93	5.968	5.957	0.011	90	715276	40.0	24.7	
29 Bis(2-chloroethyl)ether	93	6.037	6.027	0.010	96	440502	40.0	24.8	
31 2-Chlorophenol	128	6.091	6.085	0.006	96	543283	40.0	25.0	
32 n-Decane	43	6.155	6.149	0.006	87	484359	40.0	23.4	
33 1,3-Dichlorobenzene	146	6.246	6.240	0.006	96	591332	40.0	23.7	
34 1,4-Dichlorobenzene	146	6.320	6.315	0.005	92	601303	40.0	23.5	
36 Benzyl alcohol	108	6.438	6.433	0.005	88	321846	40.0	24.7	
37 1,2-Dichlorobenzene	146	6.470	6.470	0.000	95	578521	40.0	23.7	
38 2-Methylphenol	108	6.550	6.545	0.005	97	480641	40.0	25.4	
39 Indene	116	6.561	6.555	0.006	89	886135	40.0	24.2	
40 2,2'-oxybis[1-chloropropan	45	6.572	6.571	0.001	88	628277	40.0	24.2	
44 N-Nitrosodi-n-propylamine	70	6.689	6.689	0.000	75	368027	40.0	26.5	
45 4-Methylphenol	108	6.694	6.689	0.005	68	507589	40.0	25.5	
43 Acetophenone	105	6.689	6.689	0.000	78	689769	40.0	24.0	
47 Hexachloroethane	117	6.807	6.807	0.000	90	262709	40.0	23.6	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
48 Nitrobenzene	77	6.860	6.855	0.005	90	605986	40.0	25.9	
50 Isophorone	82	7.084	7.079	0.005	98	1035994	40.0	27.0	
51 2-Nitrophenol	139	7.165	7.164	0.001	97	303260	40.0	25.7	
52 2,4-Dimethylphenol	107	7.197	7.197	0.001	98	606919	40.0	26.5	
56 Benzoic acid	122	7.266	7.239	0.027	90	292474	40.0	27.9	
55 Bis(2-chloroethoxy)methane	93	7.282	7.277	0.005	98	587874	40.0	25.4	
57 2,4-Dichlorophenol	162	7.394	7.394	0.000	95	505132	40.0	25.8	
59 1,2,4-Trichlorobenzene	180	7.480	7.474	0.006	94	592753	40.0	25.1	
60 Naphthalene	128	7.555	7.554	0.000	98	1671652	40.0	24.9	
62 4-Chloroaniline	127	7.592	7.592	0.000	95	705594	40.0	25.5	
63 2,6-Dichlorophenol	162	7.608	7.608	0.000	96	508524	40.0	25.9	
64 Hexachlorobutadiene	225	7.672	7.672	0.000	97	383360	40.0	25.4	
67 Caprolactam	113	7.891	7.880	0.011	77	165151	40.0	28.0	
70 4-Chloro-3-methylphenol	107	8.030	8.030	0.000	96	534125	40.0	27.4	
72 2-Methylnaphthalene	142	8.196	8.201	-0.005	92	1226449	40.0	25.7	
75 1-Methylnaphthalene	142	8.292	8.292	0.000	93	1083271	40.0	25.9	
76 Hexachlorocyclopentadiene	237	8.350	8.350	0.000	97	440167	40.0	25.3	
77 1,2,4,5-Tetrachlorobenzene	216	8.356	8.356	0.000	98	645898	40.0	25.2	
78 2,4,6-Trichlorophenol	196	8.452	8.452	0.000	93	436524	40.0	27.4	
79 2,4,5-Trichlorophenol	196	8.489	8.489	0.000	93	445646	40.0	26.6	
80 1,1'-Biphenyl	154	8.623	8.623	0.000	94	1572240	40.0	25.2	
81 2-Chloronaphthalene	162	8.655	8.655	0.000	97	1220308	40.0	24.9	
82 2-Nitroaniline	65	8.730	8.730	0.000	81	388107	40.0	28.1	
86 Dimethyl phthalate	163	8.885	8.885	0.000	99	1435639	40.0	27.5	
87 1,3-Dinitrobenzene	168	8.917	8.917	0.000	85	237831	40.0	28.6	
88 2,6-Dinitrotoluene	165	8.943	8.943	0.000	93	338253	40.0	28.5	
89 Acenaphthylene	152	9.045	9.045	0.000	98	1920675	40.0	25.6	
90 3-Nitroaniline	138	9.109	9.109	0.000	91	359605	40.0	28.3	
91 Acenaphthene	153	9.205	9.205	0.000	92	1224151	40.0	25.7	
92 2,4-Dinitrophenol	184	9.200	9.205	-0.005	82	423954	80.0	52.8	
93 4-Nitrophenol	109	9.243	9.243	0.000	81	500955	80.0	59.1	
94 2,4-Dinitrotoluene	165	9.323	9.323	0.000	92	465422	40.0	29.2	
95 Dibenzofuran	168	9.360	9.360	0.000	96	1842992	40.0	26.0	
99 2,3,4,6-Tetrachlorophenol	232	9.467	9.472	-0.005	73	415544	40.0	26.5	
101 Diethyl phthalate	149	9.531	9.531	0.000	98	1509373	40.0	27.6	
102 Hexadecane	57	9.531	9.536	-0.005	96	840276	40.0	26.0	
104 4-Chlorophenyl phenyl ethe	204	9.659	9.665	-0.006	92	798059	40.0	27.2	
105 4-Nitroaniline	138	9.675	9.675	0.000	80	355154	40.0	26.5	
106 Fluorene	166	9.681	9.681	0.000	95	1528072	40.0	26.3	
108 4,6-Dinitro-2-methylphenol	198	9.702	9.702	0.000	87	646141	80.0	59.6	
109 N-Nitrosodiphenylamine	169	9.766	9.766	0.000	62	2287759	80.0	51.8	
111 1,2-Diphenylhydrazine	77	9.809	9.809	0.000	99	1510742	40.0	25.3	
61 Azobenzene	77	9.809	9.809	0.000	98	1510742	40.0	25.3	
116 4-Bromophenyl phenyl ether	248	10.113	10.119	-0.006	66	485098	40.0	27.1	
118 Hexachlorobenzene	284	10.204	10.204	0.000	94	522355	40.0	26.8	
119 Atrazine	200	10.231	10.231	0.000	94	437054	40.0	25.2	
122 Pentachlorophenol	266	10.370	10.375	-0.005	91	655133	80.0	49.1	
121 n-Octadecane	57	10.375	10.380	-0.005	96	920425	40.0	26.2	
126 Phenanthrene	178	10.584	10.583	0.001	97	2511527	40.0	25.9	
128 Anthracene	178	10.632	10.637	-0.005	97	2519334	40.0	26.1	
130 Carbazole	167	10.776	10.776	0.000	96	2234455	40.0	26.2	
132 Di-n-butyl phthalate	149	11.075	11.080	-0.005	100	2709066	40.0	27.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
137 Fluoranthene	202	11.903	11.903	0.000	96	2756390	40.0	26.6	
138 Benzidine	184	12.031	12.031	0.000	99	379197	40.0	8.98	
139 Pyrene	202	12.213	12.213	0.000	99	2814475	40.0	27.3	
144 Butyl benzyl phthalate	149	13.084	13.089	-0.005	99	1157719	40.0	28.0	
149 3,3'-Dichlorobenzidine	252	14.061	14.072	-0.011	74	865943	40.0	23.8	
151 Bis(2-ethylhexyl) phthalat	149	14.104	14.115	-0.011	96	1645215	40.0	28.7	
152 Benzo[a]anthracene	228	14.141	14.147	-0.006	97	2616785	40.0	26.8	
153 Chrysene	228	14.216	14.216	0.000	96	2503058	40.0	27.4	
156 Di-n-octyl phthalate	149	15.434	15.445	-0.011	99	2792505	40.0	27.0	
158 Benzo[b]fluoranthene	252	16.326	16.332	-0.006	92	2530693	40.0	25.5	
159 Benzo[k]fluoranthene	252	16.380	16.390	-0.010	99	2630193	40.0	26.5	
160 Benzo[a]pyrene	252	17.021	17.026	-0.005	76	2526431	40.0	26.7	
163 Indeno[1,2,3-cd]pyrene	276	19.409	19.414	-0.005	99	2877979	40.0	26.6	
164 Dibenz(a,h)anthracene	278	19.441	19.446	-0.005	90	2445525	40.0	26.7	
165 Benzo[g,h,i]perylene	276	20.028	20.028	0.000	99	2474382	40.0	26.3	
S 208 Methyl Phenols,Total	108				0		80.0	50.9	
S 206 Total Cresols	108				0		80.0	50.9	

Reagents:

SVTAPITINTRNi_00009 Amount Added: 1.00 Units: uL Run Reagent

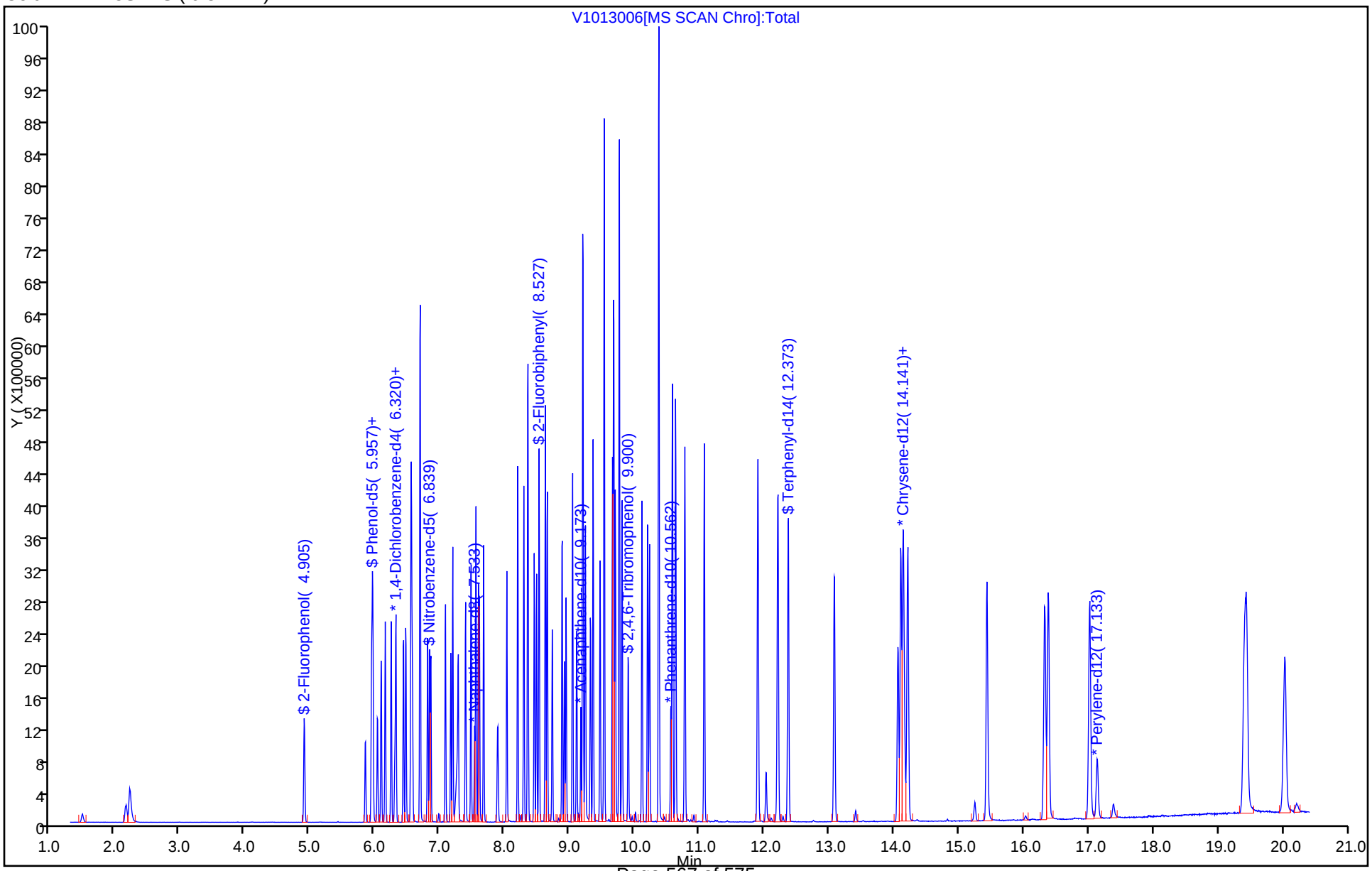
Report Date: 14-Oct-2015 06:19:55 Chrom Revision: 2.2 08-Sep-2015 13:41:46

TestAmerica Pittsburgh

Data File: \\ChromNA\Pittsburgh\ChromData\CH731\20151013-8968.b\V1013006.D

Injection Date:	13-Oct-2015 12:21:30	Instrument ID:	CH731	Operator ID:	003200
Lims ID:	LCSD 180-156321/3-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.: 180-48435-1

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.: 180-48435-1

SDG No.:

Instrument ID: CH731 Start Date: 10/13/2015 10:06

Analysis Batch Number: 156809 End Date: 10/13/2015 21:54

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 180-156809/2		10/13/2015 10:06	1	V1013002.D	Rxi-5SilMS 0.32(mm)
CCVIS 180-156809/3		10/13/2015 10:56	1	V1013003.D	Rxi-5SilMS 0.32(mm)
MB 180-156321/1-A		10/13/2015 11:24	1	V1013004.D	Rxi-5SilMS 0.32(mm)
LCS 180-156321/2-A		10/13/2015 11:52	1	V1013005.D	Rxi-5SilMS 0.32(mm)
LCSD 180-156321/3-A		10/13/2015 12:21	1	V1013006.D	Rxi-5SilMS 0.32(mm)
ZZZZZ		10/13/2015 12:50	1		Rxi-5SilMS 0.32(mm)
ZZZZZ		10/13/2015 13:18	1		Rxi-5SilMS 0.32(mm)
ZZZZZ		10/13/2015 13:47	1		Rxi-5SilMS 0.32(mm)
ZZZZZ		10/13/2015 14:16	1		Rxi-5SilMS 0.32(mm)
ZZZZZ		10/13/2015 14:44	1		Rxi-5SilMS 0.32(mm)
ZZZZZ		10/13/2015 15:13	1		Rxi-5SilMS 0.32(mm)
ZZZZZ		10/13/2015 15:42	1		Rxi-5SilMS 0.32(mm)
ZZZZZ		10/13/2015 16:10	1		Rxi-5SilMS 0.32(mm)
180-48435-3	HD-CW-15A-0/1-0	10/13/2015 17:08	1	V1013016.D	Rxi-5SilMS 0.32(mm)
ZZZZZ		10/13/2015 17:36	1		Rxi-5SilMS 0.32(mm)
ZZZZZ		10/13/2015 18:05	1		Rxi-5SilMS 0.32(mm)
ZZZZZ		10/13/2015 18:34	1		Rxi-5SilMS 0.32(mm)
ZZZZZ		10/13/2015 19:03	1		Rxi-5SilMS 0.32(mm)
ZZZZZ		10/13/2015 19:31	1		Rxi-5SilMS 0.32(mm)
ZZZZZ		10/13/2015 20:00	1		Rxi-5SilMS 0.32(mm)
ZZZZZ		10/13/2015 20:28	1		Rxi-5SilMS 0.32(mm)
ZZZZZ		10/13/2015 20:57	1		Rxi-5SilMS 0.32(mm)
ZZZZZ		10/13/2015 21:26	1		Rxi-5SilMS 0.32(mm)
ZZZZZ		10/13/2015 21:54	1		Rxi-5SilMS 0.32(mm)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Pittsburgh Job No.: 180-48435-1

SDG No.:

Instrument ID: CH731 Start Date: 10/14/2015 12:13

Analysis Batch Number: 156981 End Date: 10/14/2015 23:51

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 180-156981/2		10/14/2015 12:13	1	V1014002.D	Rxi-5SilMS 0.32(mm)
CCVIS 180-156981/3		10/14/2015 12:30	1	V1014003.D	Rxi-5SilMS 0.32(mm)
ZZZZZ		10/14/2015 13:27	1		Rxi-5SilMS 0.32(mm)
ZZZZZ		10/14/2015 14:24	1		Rxi-5SilMS 0.32(mm)
180-48435-3 DL	HD-CW-15A-0/1-0 DL	10/14/2015 14:52	15	V1014008.D	Rxi-5SilMS 0.32(mm)
ZZZZZ		10/14/2015 22:54	250		Rxi-5SilMS 0.32(mm)
ZZZZZ		10/14/2015 23:23	250		Rxi-5SilMS 0.32(mm)
ZZZZZ		10/14/2015 23:51	125		Rxi-5SilMS 0.32(mm)

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Pittsburgh Job No.: 180-48435-1

SDG No.:

Batch Number: 156321 Batch Start Date: 10/08/15 13:05 Batch Analyst: Trout, Bill

Batch Method: 3520C Batch End Date: 10/09/15 07:20

Lab Sample ID	Client Sample ID	Method Chain	Basis	Initial pH	InitialAmount	FinalAmount	FirstAdjustpH	OPLVISPKMIX1i 00044	OPQL8270SURi 00034
MB 180-156321/1		3520C, 8270D LL		5 SU	250 mL	0.25 mL	2		25 uL
LCS 180-156321/2		3520C, 8270D LL		5 SU	250 mL	0.25 mL	2	25 uL	25 uL
LCSD 180-156321/3		3520C, 8270D LL		5 SU	250 mL	0.25 mL	2	25 uL	25 uL
180-48435-D-3	HD-CW-15A-0/1-0	3520C, 8270D LL	T	7 SU	260 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	0720
Time the first extraction started 24 hr	1305
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
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: 10/5/2015	COC No: TAP2015100501
Groundwater Sciences Corporation	Tel/Fax: 717-901-8181 / (717) 657-1611	Lab Contact: Carrie Gamber	Carrier: FEDEX	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) _____			
(717) 901-8180 Phone	TAT if different from Below: Standard			Container No. 1
(717) 657-1611 FAX	■ 2 weeks			SDG No.
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-CW-9-0/1-0	10/5/15	0620	Groundwater	Water	3	X				
HD-CW-13-0/1-0	10/5/15	0630	Groundwater	Water	3	X				
HD-CW-15A-0/1-0	10/5/15	0615	Groundwater	Water	5	X			X	
HD-CW-17-0/1-0	10/5/15	0635	Groundwater	Water	3	X				
HD-CW-20-0/1-0	10/5/15	0625	Groundwater	Water	3	X				
HD-QC5-0/1-2	10/5/15	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=ZincAcetate&NaOH						2	1	1	1	
Field Filter						N	N	Y	N	

180-48435 Chain of Custody

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: 10/5/15 1210	Received by:	Company:	Date/Time: 10/5/15 1215
Relinquished by:	Company: TA	Date/Time: 10/5/15 1500	Received by:	Company:	Date/Time: 10/6/15 900
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:

ORIGIN ID:KPDA (610) 337-9992
SAMPLE RECEIPT
TEST AMERICA
1008 WEST 9TH AVE

KING OF PRUSSIA, PA 19406
UNITED STATES US

SHIP DATE: 050CT15
ACTWGT: 45.00 LB
CAD: 8490299/INET3670

BILL RECIPIENT

TO SAMPLE RECEIPT
TEST AMERICA - PITTSBURGH
301 ALPHA DR

PITTSBURGH PA 15238
(412) 963-7058 REF:
INV:
PO: DEPT:

539J3/4018/3108

Uncorrected temp 2.2 °C
Thermometer ID 2
Initials
CF
PT-WI-SR-001 effective 7/26/13

FedEx Express

J153015091001uv

180-48435 Waybill

TUE - 06 OCT 3:00P
STANDARD OVERNIGHT

TRK# 0201 7746 6591 4966

EV AGCA

15238
PA-US PIT

Part # 158267-405 RIT2 07/15

FZ 199 1 16:00 A 4966 10.06

Login Sample Receipt Checklist

Client: Groundwater Sciences Corporation

Job Number: 180-48435-1

Login Number: 48435
List Number: 1
Creator: Kovitch, Christina M

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	