

ANALYTICAL REPORT

Job Number: 500-150867-2

Job Description: Rock River Sediment Removal, Janesville

For:
EnviroAnalytics Group LLC
1515 Des Peres Rd.
Suite 300
Saint Louis, MO 63131
Attention: Mr. Daniel Dunn



Approved for release.
Therese M Hargraves
Project Manager I
9/7/2018 12:56 PM

Designee for
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09/07/2018

These test results meet all the requirements of NELAC for accredited parameters.

The Lab Certification ID# is 100201.

All questions regarding this test report should be directed to the TestAmerica Project Manager whose signature appears on this report. All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.

Reporting limits are adjusted for sample size used, dilutions and moisture content if applicable.

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Definitions/Glossary

Client: EnviroAnalytics Group LLC
Project/Site: Rock River Sediment Removal, Janesville

TestAmerica Job ID: 500-150867-2

Qualifiers

Metals

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.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	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	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
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 (Radiochemistry)
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)

Job Narrative
500-150867-2

Comments

No additional comments.

Receipt

The samples were received on 9/1/2018 10:28 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 15.1° C.

GC/MS Semi VOA

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

GC Semi VOA

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

Metals

Method(s) 200.8, 6020A: The ICSAB from batch 500-448593 recovered above the upper control limit for Selenium. The associated samples were below the reporting limit and therefore reported. The affected sample was Leachate Solids (500-150867-5).

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

Organic Prep

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

Detection Summary

Client: EnviroAnalytics Group LLC
Project/Site: Rock River Sediment Removal, Janesville

TestAmerica Job ID: 500-150867-2

Client Sample ID: Leachate Solids

Lab Sample ID: 500-150867-5

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	22		20	6.0	ug/L	1		8270D	ASTM Leach
Arsenic	3.1	J	50	2.0	ug/L	1		6020A	ASTM Leach

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: EnviroAnalytics Group LLC
 Project/Site: Rock River Sediment Removal, Janesville

TestAmerica Job ID: 500-150867-2

Client Sample ID: Leachate Solids

Lab Sample ID: 500-150867-5

Date Collected: 08/31/18 15:55

Matrix: Solid

Date Received: 09/01/18 10:28

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - ASTM Leach

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<7.2		20	7.2	ug/L		09/05/18 09:47	09/05/18 18:29	1
Acenaphthylene	<6.4		20	6.4	ug/L		09/05/18 09:47	09/05/18 18:29	1
Anthracene	<6.4		20	6.4	ug/L		09/05/18 09:47	09/05/18 18:29	1
Benzo[a]anthracene	<0.88		4.0	0.88	ug/L		09/05/18 09:47	09/05/18 18:29	1
Benzo[a]pyrene	<1.1		4.0	1.1	ug/L		09/05/18 09:47	09/05/18 18:29	1
Benzo[b]fluoranthene	<1.2		4.0	1.2	ug/L		09/05/18 09:47	09/05/18 18:29	1
Benzo[g,h,i]perylene	<8.4		20	8.4	ug/L		09/05/18 09:47	09/05/18 18:29	1
Benzo[k]fluoranthene	<1.5		4.0	1.5	ug/L		09/05/18 09:47	09/05/18 18:29	1
Chrysene	<2.8		10	2.8	ug/L		09/05/18 09:47	09/05/18 18:29	1
Dibenz(a,h)anthracene	<1.3		6.0	1.3	ug/L		09/05/18 09:47	09/05/18 18:29	1
Fluoranthene	<6.4		20	6.4	ug/L		09/05/18 09:47	09/05/18 18:29	1
Fluorene	<7.6		20	7.6	ug/L		09/05/18 09:47	09/05/18 18:29	1
Indeno[1,2,3-cd]pyrene	<1.7		4.0	1.7	ug/L		09/05/18 09:47	09/05/18 18:29	1
Naphthalene	22		20	6.0	ug/L		09/05/18 09:47	09/05/18 18:29	1
Phenanthrene	<7.0		20	7.0	ug/L		09/05/18 09:47	09/05/18 18:29	1
Pyrene	<9.6		20	9.6	ug/L		09/05/18 09:47	09/05/18 18:29	1
1-Methylnaphthalene	<10		40	10	ug/L		09/05/18 09:47	09/05/18 18:29	1
2-Methylnaphthalene	<2.6		40	2.6	ug/L		09/05/18 09:47	09/05/18 18:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	95		36 - 120				09/05/18 09:47	09/05/18 18:29	1
Terphenyl-d14 (Surr)	104		40 - 145				09/05/18 09:47	09/05/18 18:29	1
2-Fluorobiphenyl (Surr)	88		34 - 110				09/05/18 09:47	09/05/18 18:29	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography - ASTM Leach

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<16		50	16	ug/L		09/05/18 11:22	09/05/18 16:53	1
PCB-1221	<24		50	24	ug/L		09/05/18 11:22	09/05/18 16:53	1
PCB-1232	<8.6		50	8.6	ug/L		09/05/18 11:22	09/05/18 16:53	1
PCB-1242	<12		50	12	ug/L		09/05/18 11:22	09/05/18 16:53	1
PCB-1248	<10		50	10	ug/L		09/05/18 11:22	09/05/18 16:53	1
PCB-1254	<10		50	10	ug/L		09/05/18 11:22	09/05/18 16:53	1
PCB-1260	<11		50	11	ug/L		09/05/18 11:22	09/05/18 16:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	44		30 - 120				09/05/18 11:22	09/05/18 16:53	1
DCB Decachlorobiphenyl	49		30 - 140				09/05/18 11:22	09/05/18 16:53	1

Method: 6020A - Metals (ICP/MS) - ASTM Leach

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.1	J	50	2.0	ug/L		09/05/18 09:17	09/05/18 19:52	1
Barium	<50		500	50	ug/L		09/05/18 09:17	09/05/18 18:26	1
Cadmium	<1.0		5.0	1.0	ug/L		09/05/18 09:17	09/05/18 19:52	1
Chromium	<5.0		25	5.0	ug/L		09/05/18 09:17	09/05/18 19:52	1
Lead	<2.0		50	2.0	ug/L		09/05/18 09:17	09/05/18 18:26	1
Selenium	<10	^	50	10	ug/L		09/05/18 09:17	09/05/18 19:52	1
Silver	<5.0		25	5.0	ug/L		09/05/18 09:17	09/05/18 19:52	1

Client Sample Results

Client: EnviroAnalytics Group LLC
Project/Site: Rock River Sediment Removal, Janesville

TestAmerica Job ID: 500-150867-2

Client Sample ID: Leachate Solids

Lab Sample ID: 500-150867-5

Date Collected: 08/31/18 15:55

Matrix: Solid

Date Received: 09/01/18 10:28

Method: 7470A - Mercury (CVAA) - ASTM Leach

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		09/05/18 11:50	09/06/18 08:46	1

Default Detection Limits

Client: EnviroAnalytics Group LLC
Project/Site: Rock River Sediment Removal, Janesville

TestAmerica Job ID: 500-150867-2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - ASTM Leach

Prep: 3510C

Leach: D3987-85

Analyte	LOQ	LOD	Units	Method
1-Methylnaphthalene	2.0	0.50	ug/L	8270D
2-Methylnaphthalene	2.0	0.13	ug/L	8270D
Acenaphthene	1.0	0.36	ug/L	8270D
Acenaphthylene	1.0	0.32	ug/L	8270D
Anthracene	1.0	0.32	ug/L	8270D
Benzo[a]anthracene	0.20	0.044	ug/L	8270D
Benzo[a]pyrene	0.20	0.056	ug/L	8270D
Benzo[b]fluoranthene	0.20	0.058	ug/L	8270D
Benzo[g,h,i]perylene	1.0	0.42	ug/L	8270D
Benzo[k]fluoranthene	0.20	0.074	ug/L	8270D
Chrysene	0.50	0.14	ug/L	8270D
Dibenz(a,h)anthracene	0.30	0.064	ug/L	8270D
Fluoranthene	1.0	0.32	ug/L	8270D
Fluorene	1.0	0.38	ug/L	8270D
Indeno[1,2,3-cd]pyrene	0.20	0.084	ug/L	8270D
Naphthalene	1.0	0.30	ug/L	8270D
Phenanthrene	1.0	0.35	ug/L	8270D
Pyrene	1.0	0.48	ug/L	8270D

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography - ASTM Leach

Prep: 3510C

Leach: D3987-85

Analyte	LOQ	LOD	Units	Method
PCB-1016	0.50	0.16	ug/L	8082A
PCB-1221	0.50	0.24	ug/L	8082A
PCB-1232	0.50	0.086	ug/L	8082A
PCB-1242	0.50	0.12	ug/L	8082A
PCB-1248	0.50	0.10	ug/L	8082A
PCB-1254	0.50	0.10	ug/L	8082A
PCB-1260	0.50	0.11	ug/L	8082A

Method: 6020A - Metals (ICP/MS) - ASTM Leach

Prep: 3010A

Leach: D3987-85

Analyte	LOQ	LOD	Units	Method
Arsenic	50	2.0	ug/L	6020A
Barium	500	50	ug/L	6020A
Cadmium	5.0	1.0	ug/L	6020A
Chromium	25	5.0	ug/L	6020A
Lead	50	2.0	ug/L	6020A
Selenium	50	10	ug/L	6020A
Silver	25	5.0	ug/L	6020A

Method: 7470A - Mercury (CVAA) - ASTM Leach

Prep: 7470A

Leach: D3987-85

Analyte	LOQ	LOD	Units	Method
Mercury	0.20	0.20	ug/L	7470A

Surrogate Summary

Client: EnviroAnalytics Group LLC
Project/Site: Rock River Sediment Removal, Janesville

TestAmerica Job ID: 500-150867-2

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		NBZ (36-120)	TPHL (40-145)	FBP (34-110)
LCS 500-448405/2-A	Lab Control Sample	93	98	92
MB 500-448405/1-A	Method Blank	95	109	80

Surrogate Legend

NBZ = Nitrobenzene-d5 (Surr)

TPHL = Terphenyl-d14 (Surr)

FBP = 2-Fluorobiphenyl (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: ASTM Leach

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		NBZ (36-120)	TPHL (40-145)	FBP (34-110)
500-150867-5	Leachate Solids	95	104	88
LB3 500-448263/1-C	Method Blank	89	99	77

Surrogate Legend

NBZ = Nitrobenzene-d5 (Surr)

TPHL = Terphenyl-d14 (Surr)

FBP = 2-Fluorobiphenyl (Surr)

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		TCX1 (30-120)	DCBP1 (30-140)
LCS 500-448423/2-A	Lab Control Sample	79	91
MB 500-448423/1-A	Method Blank	70	85

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCBP = DCB Decachlorobiphenyl

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid

Prep Type: ASTM Leach

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		TCX1 (30-120)	DCBP1 (30-140)
500-150867-5	Leachate Solids	44	49

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCBP = DCB Decachlorobiphenyl

QC Sample Results

Client: EnviroAnalytics Group LLC
 Project/Site: Rock River Sediment Removal, Janesville

TestAmerica Job ID: 500-150867-2

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-448405/1-A
Matrix: Solid
Analysis Batch: 448368

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 448405

Analyte	MB Result	MB Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.36		1.0	0.36	ug/L		09/05/18 09:47	09/05/18 17:01	1
Acenaphthylene	<0.32		1.0	0.32	ug/L		09/05/18 09:47	09/05/18 17:01	1
Anthracene	<0.32		1.0	0.32	ug/L		09/05/18 09:47	09/05/18 17:01	1
Benzo[a]anthracene	<0.044		0.20	0.044	ug/L		09/05/18 09:47	09/05/18 17:01	1
Benzo[a]pyrene	<0.056		0.20	0.056	ug/L		09/05/18 09:47	09/05/18 17:01	1
Benzo[b]fluoranthene	<0.058		0.20	0.058	ug/L		09/05/18 09:47	09/05/18 17:01	1
Benzo[g,h,i]perylene	<0.42		1.0	0.42	ug/L		09/05/18 09:47	09/05/18 17:01	1
Benzo[k]fluoranthene	<0.074		0.20	0.074	ug/L		09/05/18 09:47	09/05/18 17:01	1
Chrysene	<0.14		0.50	0.14	ug/L		09/05/18 09:47	09/05/18 17:01	1
Dibenz(a,h)anthracene	<0.064		0.30	0.064	ug/L		09/05/18 09:47	09/05/18 17:01	1
Fluoranthene	<0.32		1.0	0.32	ug/L		09/05/18 09:47	09/05/18 17:01	1
Fluorene	<0.38		1.0	0.38	ug/L		09/05/18 09:47	09/05/18 17:01	1
Indeno[1,2,3-cd]pyrene	<0.084		0.20	0.084	ug/L		09/05/18 09:47	09/05/18 17:01	1
Naphthalene	<0.30		1.0	0.30	ug/L		09/05/18 09:47	09/05/18 17:01	1
Phenanthrene	<0.35		1.0	0.35	ug/L		09/05/18 09:47	09/05/18 17:01	1
Pyrene	<0.48		1.0	0.48	ug/L		09/05/18 09:47	09/05/18 17:01	1
1-Methylnaphthalene	<0.50		2.0	0.50	ug/L		09/05/18 09:47	09/05/18 17:01	1
2-Methylnaphthalene	<0.13		2.0	0.13	ug/L		09/05/18 09:47	09/05/18 17:01	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	95		36 - 120	09/05/18 09:47	09/05/18 17:01	1
Terphenyl-d14 (Surr)	109		40 - 145	09/05/18 09:47	09/05/18 17:01	1
2-Fluorobiphenyl (Surr)	80		34 - 110	09/05/18 09:47	09/05/18 17:01	1

Lab Sample ID: LCS 500-448405/2-A
Matrix: Solid
Analysis Batch: 448368

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 448405

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Acenaphthene	40.0	37.5		ug/L		94	46 - 110
Acenaphthylene	40.0	38.5		ug/L		96	47 - 110
Anthracene	40.0	38.9		ug/L		97	67 - 110
Benzo[a]anthracene	40.0	41.4		ug/L		104	70 - 120
Benzo[a]pyrene	40.0	45.4		ug/L		114	70 - 120
Benzo[b]fluoranthene	40.0	46.5		ug/L		116	69 - 123
Benzo[g,h,i]perylene	40.0	33.9		ug/L		85	70 - 120
Benzo[k]fluoranthene	40.0	47.2		ug/L		118	70 - 120
Chrysene	40.0	44.6		ug/L		111	68 - 120
Dibenz(a,h)anthracene	40.0	37.2		ug/L		93	70 - 127
Fluoranthene	40.0	42.3		ug/L		106	68 - 120
Fluorene	40.0	33.9		ug/L		85	53 - 120
Indeno[1,2,3-cd]pyrene	40.0	35.6		ug/L		89	65 - 133
Naphthalene	40.0	33.2		ug/L		83	36 - 110
Phenanthrene	40.0	38.9		ug/L		97	65 - 120
Pyrene	40.0	39.6		ug/L		99	70 - 110
1-Methylnaphthalene	40.0	33.6		ug/L		84	38 - 110
2-Methylnaphthalene	40.0	33.7		ug/L		84	34 - 110

QC Sample Results

Client: EnviroAnalytics Group LLC
 Project/Site: Rock River Sediment Removal, Janesville

TestAmerica Job ID: 500-150867-2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-448405/2-A
Matrix: Solid
Analysis Batch: 448368

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 448405

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
Nitrobenzene-d5 (Surr)	93		36 - 120
Terphenyl-d14 (Surr)	98		40 - 145
2-Fluorobiphenyl (Surr)	92		34 - 110

Lab Sample ID: LB3 500-448263/1-C
Matrix: Solid
Analysis Batch: 448368

Client Sample ID: Method Blank
Prep Type: ASTM Leach
Prep Batch: 448405

Analyte	LB3 LB3		LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acenaphthene	<3.6		10	3.6	ug/L		09/05/18 09:47	09/05/18 16:03	1
Acenaphthylene	<3.2		10	3.2	ug/L		09/05/18 09:47	09/05/18 16:03	1
Anthracene	<3.2		10	3.2	ug/L		09/05/18 09:47	09/05/18 16:03	1
Benzo[a]anthracene	<0.44		2.0	0.44	ug/L		09/05/18 09:47	09/05/18 16:03	1
Benzo[a]pyrene	<0.56		2.0	0.56	ug/L		09/05/18 09:47	09/05/18 16:03	1
Benzo[b]fluoranthene	<0.58		2.0	0.58	ug/L		09/05/18 09:47	09/05/18 16:03	1
Benzo[g,h,i]perylene	<4.2		10	4.2	ug/L		09/05/18 09:47	09/05/18 16:03	1
Benzo[k]fluoranthene	<0.74		2.0	0.74	ug/L		09/05/18 09:47	09/05/18 16:03	1
Chrysene	<1.4		5.0	1.4	ug/L		09/05/18 09:47	09/05/18 16:03	1
Dibenz(a,h)anthracene	<0.64		3.0	0.64	ug/L		09/05/18 09:47	09/05/18 16:03	1
Fluoranthene	<3.2		10	3.2	ug/L		09/05/18 09:47	09/05/18 16:03	1
Fluorene	<3.8		10	3.8	ug/L		09/05/18 09:47	09/05/18 16:03	1
Indeno[1,2,3-cd]pyrene	<0.84		2.0	0.84	ug/L		09/05/18 09:47	09/05/18 16:03	1
Naphthalene	<3.0		10	3.0	ug/L		09/05/18 09:47	09/05/18 16:03	1
Phenanthrene	<3.5		10	3.5	ug/L		09/05/18 09:47	09/05/18 16:03	1
Pyrene	<4.8		10	4.8	ug/L		09/05/18 09:47	09/05/18 16:03	1
1-Methylnaphthalene	<5.0		20	5.0	ug/L		09/05/18 09:47	09/05/18 16:03	1
2-Methylnaphthalene	<1.3		20	1.3	ug/L		09/05/18 09:47	09/05/18 16:03	1

Surrogate	LB3 LB3		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Nitrobenzene-d5 (Surr)	89		36 - 120	09/05/18 09:47	09/05/18 16:03	1
Terphenyl-d14 (Surr)	99		40 - 145	09/05/18 09:47	09/05/18 16:03	1
2-Fluorobiphenyl (Surr)	77		34 - 110	09/05/18 09:47	09/05/18 16:03	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 500-448423/1-A
Matrix: Solid
Analysis Batch: 448491

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 448423

Analyte	MB MB		LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
PCB-1016	<0.16		0.50	0.16	ug/L		09/05/18 11:22	09/05/18 16:22	1
PCB-1221	<0.24		0.50	0.24	ug/L		09/05/18 11:22	09/05/18 16:22	1
PCB-1232	<0.086		0.50	0.086	ug/L		09/05/18 11:22	09/05/18 16:22	1
PCB-1242	<0.12		0.50	0.12	ug/L		09/05/18 11:22	09/05/18 16:22	1
PCB-1248	<0.10		0.50	0.10	ug/L		09/05/18 11:22	09/05/18 16:22	1
PCB-1254	<0.10		0.50	0.10	ug/L		09/05/18 11:22	09/05/18 16:22	1
PCB-1260	<0.11		0.50	0.11	ug/L		09/05/18 11:22	09/05/18 16:22	1

QC Sample Results

Client: EnviroAnalytics Group LLC
 Project/Site: Rock River Sediment Removal, Janesville

TestAmerica Job ID: 500-150867-2

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: MB 500-448423/1-A
Matrix: Solid
Analysis Batch: 448491

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 448423

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Tetrachloro-m-xylene	70		30 - 120	09/05/18 11:22	09/05/18 16:22	1
DCB Decachlorobiphenyl	85		30 - 140	09/05/18 11:22	09/05/18 16:22	1

Lab Sample ID: LCS 500-448423/2-A
Matrix: Solid
Analysis Batch: 448491

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 448423

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
PCB-1016	5.00	4.30		ug/L		86	56 - 120
PCB-1260	5.00	4.61		ug/L		92	53 - 137

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
Tetrachloro-m-xylene	79		30 - 120
DCB Decachlorobiphenyl	91		30 - 140

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: LCS 500-448398/2-A
Matrix: Solid
Analysis Batch: 448589

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 448398

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Barium	500	480	J	ug/L		96	80 - 120
Lead	100	107		ug/L		107	80 - 120

Lab Sample ID: LCS 500-448398/2-A
Matrix: Solid
Analysis Batch: 448593

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 448398

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Arsenic	100	97.4		ug/L		97	80 - 120
Cadmium	50.0	50.8		ug/L		102	80 - 120
Chromium	200	205		ug/L		102	80 - 120
Selenium	100	98.7	^	ug/L		99	80 - 120
Silver	50.0	52.9		ug/L		106	80 - 120

Lab Sample ID: LB3 500-448263/1-B
Matrix: Solid
Analysis Batch: 448589

Client Sample ID: Method Blank
Prep Type: ASTM Leach
Prep Batch: 448398

Analyte	LB3 LB3		LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Barium	<50		500	50	ug/L		09/05/18 09:17	09/05/18 18:22	1
Lead	<2.0		50	2.0	ug/L		09/05/18 09:17	09/05/18 18:22	1

QC Sample Results

Client: EnviroAnalytics Group LLC
 Project/Site: Rock River Sediment Removal, Janesville

TestAmerica Job ID: 500-150867-2

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: LB3 500-448263/1-B
Matrix: Solid
Analysis Batch: 448593

Client Sample ID: Method Blank
Prep Type: ASTM Leach
Prep Batch: 448398

Analyte	LB3	LB3	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Arsenic	<2.0		50	2.0	ug/L		09/05/18 09:17	09/05/18 19:45	1
Cadmium	<1.0		5.0	1.0	ug/L		09/05/18 09:17	09/05/18 19:45	1
Chromium	<5.0		25	5.0	ug/L		09/05/18 09:17	09/05/18 19:45	1
Selenium	<10	^	50	10	ug/L		09/05/18 09:17	09/05/18 19:45	1
Silver	<5.0		25	5.0	ug/L		09/05/18 09:17	09/05/18 19:45	1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 500-448425/12-A
Matrix: Solid
Analysis Batch: 448602

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 448425

Analyte	MB	MB	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	<0.20		0.20	0.20	ug/L		09/05/18 11:15	09/06/18 08:04	1

Lab Sample ID: LCS 500-448425/13-A
Matrix: Solid
Analysis Batch: 448602

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 448425

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits

Lab Sample ID: LCSD 500-448425/14-A
Matrix: Solid
Analysis Batch: 448602

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 448425

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit

Lab Sample ID: LB3 500-448263/1-E
Matrix: Solid
Analysis Batch: 448602

Client Sample ID: Method Blank
Prep Type: ASTM Leach
Prep Batch: 448425

Analyte	LB3	LB3	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	<0.20		0.20	0.20	ug/L		09/05/18 11:50	09/06/18 08:44	1

QC Association Summary

Client: EnviroAnalytics Group LLC
Project/Site: Rock River Sediment Removal, Janesville

TestAmerica Job ID: 500-150867-2

GC/MS Semi VOA

Leach Batch: 448263

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-150867-5	Leachate Solids	ASTM Leach	Solid	D3987-85	
LB3 500-448263/1-C	Method Blank	ASTM Leach	Solid	D3987-85	

Analysis Batch: 448368

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-150867-5	Leachate Solids	ASTM Leach	Solid	8270D	448405
LB3 500-448263/1-C	Method Blank	ASTM Leach	Solid	8270D	448405
MB 500-448405/1-A	Method Blank	Total/NA	Solid	8270D	448405
LCS 500-448405/2-A	Lab Control Sample	Total/NA	Solid	8270D	448405

Prep Batch: 448405

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-150867-5	Leachate Solids	ASTM Leach	Solid	3510C	448263
LB3 500-448263/1-C	Method Blank	ASTM Leach	Solid	3510C	448263
MB 500-448405/1-A	Method Blank	Total/NA	Solid	3510C	
LCS 500-448405/2-A	Lab Control Sample	Total/NA	Solid	3510C	

GC Semi VOA

Leach Batch: 448263

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-150867-5	Leachate Solids	ASTM Leach	Solid	D3987-85	

Prep Batch: 448423

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-150867-5	Leachate Solids	ASTM Leach	Solid	3510C	448263
MB 500-448423/1-A	Method Blank	Total/NA	Solid	3510C	
LCS 500-448423/2-A	Lab Control Sample	Total/NA	Solid	3510C	

Analysis Batch: 448491

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-150867-5	Leachate Solids	ASTM Leach	Solid	8082A	448423
MB 500-448423/1-A	Method Blank	Total/NA	Solid	8082A	448423
LCS 500-448423/2-A	Lab Control Sample	Total/NA	Solid	8082A	448423

Metals

Leach Batch: 448263

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-150867-5	Leachate Solids	ASTM Leach	Solid	D3987-85	
LB3 500-448263/1-B	Method Blank	ASTM Leach	Solid	D3987-85	
LB3 500-448263/1-E	Method Blank	ASTM Leach	Solid	D3987-85	

Prep Batch: 448398

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-150867-5	Leachate Solids	ASTM Leach	Solid	3010A	448263
LB3 500-448263/1-B	Method Blank	ASTM Leach	Solid	3010A	448263
LCS 500-448398/2-A	Lab Control Sample	Total/NA	Solid	3010A	

QC Association Summary

Client: EnviroAnalytics Group LLC
Project/Site: Rock River Sediment Removal, Janesville

TestAmerica Job ID: 500-150867-2

Metals (Continued)

Prep Batch: 448425

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-150867-5	Leachate Solids	ASTM Leach	Solid	7470A	448263
LB3 500-448263/1-E	Method Blank	ASTM Leach	Solid	7470A	448263
MB 500-448425/12-A	Method Blank	Total/NA	Solid	7470A	
LCS 500-448425/13-A	Lab Control Sample	Total/NA	Solid	7470A	
LCSD 500-448425/14-A	Lab Control Sample Dup	Total/NA	Solid	7470A	

Analysis Batch: 448589

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-150867-5	Leachate Solids	ASTM Leach	Solid	6020A	448398
LB3 500-448263/1-B	Method Blank	ASTM Leach	Solid	6020A	448398
LCS 500-448398/2-A	Lab Control Sample	Total/NA	Solid	6020A	448398

Analysis Batch: 448593

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-150867-5	Leachate Solids	ASTM Leach	Solid	6020A	448398
LB3 500-448263/1-B	Method Blank	ASTM Leach	Solid	6020A	448398
LCS 500-448398/2-A	Lab Control Sample	Total/NA	Solid	6020A	448398

Analysis Batch: 448602

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-150867-5	Leachate Solids	ASTM Leach	Solid	7470A	448425
LB3 500-448263/1-E	Method Blank	ASTM Leach	Solid	7470A	448425
MB 500-448425/12-A	Method Blank	Total/NA	Solid	7470A	448425
LCS 500-448425/13-A	Lab Control Sample	Total/NA	Solid	7470A	448425
LCSD 500-448425/14-A	Lab Control Sample Dup	Total/NA	Solid	7470A	448425

Lab Chronicle

Client: EnviroAnalytics Group LLC
Project/Site: Rock River Sediment Removal, Janesville

TestAmerica Job ID: 500-150867-2

Client Sample ID: Leachate Solids

Lab Sample ID: 500-150867-5

Date Collected: 08/31/18 15:55

Matrix: Solid

Date Received: 09/01/18 10:28

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
ASTM Leach	Leach	D3987-85			448263	09/04/18 12:10	JLC	TAL CHI
ASTM Leach	Prep	3510C			448405	09/05/18 09:47	JS	TAL CHI
ASTM Leach	Analysis	8270D		1	448368	09/05/18 18:29	GES	TAL CHI
ASTM Leach	Leach	D3987-85			448263	09/04/18 12:10	JLC	TAL CHI
ASTM Leach	Prep	3510C			448423	09/05/18 11:22	JS	TAL CHI
ASTM Leach	Analysis	8082A		1	448491	09/05/18 16:53	BJH	TAL CHI
ASTM Leach	Leach	D3987-85			448263	09/04/18 12:10	JLC	TAL CHI
ASTM Leach	Prep	3010A			448398	09/05/18 09:17	SAH	TAL CHI
ASTM Leach	Analysis	6020A		1	448589	09/05/18 18:26	FXG	TAL CHI
ASTM Leach	Leach	D3987-85			448263	09/04/18 12:10	JLC	TAL CHI
ASTM Leach	Prep	3010A			448398	09/05/18 09:17	SAH	TAL CHI
ASTM Leach	Analysis	6020A		1	448593	09/05/18 19:52	FXG	TAL CHI
ASTM Leach	Leach	D3987-85			448263	09/04/18 12:10	JLC	TAL CHI
ASTM Leach	Prep	7470A			448425	09/05/18 11:50	MJG	TAL CHI
ASTM Leach	Analysis	7470A		1	448602	09/06/18 08:46	MJG	TAL CHI

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Accreditation/Certification Summary

Client: EnviroAnalytics Group LLC
Project/Site: Rock River Sediment Removal, Janesville

TestAmerica Job ID: 500-150867-2

Laboratory: TestAmerica Chicago

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
Wisconsin	State Program	5	999580010	08-31-19

Analysis Method	Prep Method	Matrix	Analyte
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Method Summary

Client: EnviroAnalytics Group LLC
Project/Site: Rock River Sediment Removal, Janesville

TestAmerica Job ID: 500-150867-2

Method	Method Description	Protocol	Laboratory
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL CHI
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL CHI
6020A	Metals (ICP/MS)	SW846	TAL CHI
7470A	Mercury (CVAA)	SW846	TAL CHI
3010A	Preparation, Total Metals	SW846	TAL CHI
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL CHI
7470A	Preparation, Mercury	SW846	TAL CHI
D3987-85	ASTM Leaching Procedure	ASTM	TAL CHI

Protocol References:

ASTM = ASTM International

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

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Sample Summary

Client: EnviroAnalytics Group LLC
Project/Site: Rock River Sediment Removal, Janesville

TestAmerica Job ID: 500-150867-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-150867-5	Leachate Solids	Solid	08/31/18 15:55	09/01/18 10:28

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-150867-2

SDG No.: _____

Instrument ID: CMS12 Analysis Batch Number: 445577Lab Sample ID: IC 500-445577/2 Client Sample ID: _____Date Analyzed: 08/15/18 17:27 Lab File ID: L1STD2.D GC Column: ZB5MS ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
n-Decane	6.23	Peak assignment corrected	rynkarg	08/15/18 18:28
N-Nitrosodiphenylamine	9.44	Peak assignment corrected	rynkarg	08/15/18 18:25
n-Octadecane	10.01	Peak assignment corrected	rynkarg	08/15/18 18:26
Di-n-butyl phthalate	10.61	Peak assignment corrected	rynkarg	08/15/18 18:25

Lab Sample ID: IC 500-445577/3 Client Sample ID: _____Date Analyzed: 08/15/18 17:57 Lab File ID: L1STD02.D GC Column: ZB5MS ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[k]fluoranthene	16.01	Peak assignment corrected	rynkarg	08/15/18 18:24

Lab Sample ID: IC 500-445577/4 Client Sample ID: _____Date Analyzed: 08/15/18 18:27 Lab File ID: L1STD05.D GC Column: ZB5MS ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[k]fluoranthene	16.00	Peak assignment corrected	rynkarg	08/15/18 21:47

Lab Sample ID: IC 500-445577/6 Client Sample ID: _____Date Analyzed: 08/15/18 19:26 Lab File ID: L1STD5.D GC Column: ZB5MS ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2,4-Dichlorophenol	7.30	Peak assignment corrected	rynkarg	08/15/18 21:48

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-150867-2

SDG No.: _____

Instrument ID: CMS12 Analysis Batch Number: 445577

Lab Sample ID: IC 500-445577/7 Client Sample ID: _____

Date Analyzed: 08/15/18 19:55 Lab File ID: L1STD10.D GC Column: ZB5MS ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
4-Nitroaniline	9.36	Peak assignment corrected	rynkarg	08/15/18 21:53

Lab Sample ID: IC 500-445577/8 Client Sample ID: _____

Date Analyzed: 08/15/18 20:25 Lab File ID: L1STD20.D GC Column: ZB5MS ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzoic acid	7.21	Peak assignment corrected	rynkarg	08/15/18 21:50

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-2

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration					
					Reagent ID	Volume Added							
AR1248-4_00041	09/21/18	03/21/18	HEXANE, Lot 182619	100 mL	PCBAR1248_00012	0.05 mL	PCB-1248 Peak 1	0.5 ug/mL					
							PCB-1248 Peak 2	0.5 ug/mL					
							PCB-1248 Peak 3	0.5 ug/mL					
							PCB-1248 Peak 4	0.5 ug/mL					
							PCB-1248 Peak 5	0.5 ug/mL					
.PCBAR1248_00012	12/31/22		RESTEK, Lot A0121842			(Purchased Reagent)	PCB-1248 Peak 1	1000 ug/mL					
							PCB-1248 Peak 2	1000 ug/mL					
							PCB-1248 Peak 3	1000 ug/mL					
							PCB-1248 Peak 4	1000 ug/mL					
							PCB-1248 Peak 5	1000 ug/mL					
AR1660-1_00035	12/06/18	06/06/18	HEXANE, Lot 181539	100 mL	AR1660PAR_00039	0.8 mL	1260 Res 1	0.04 ug/mL					
							1260 Res 2	0.04 ug/mL					
							1260 Res 3	0.04 ug/mL					
							PCB-1016 Peak 1	0.04 ug/mL					
							PCB-1016 Peak 2	0.04 ug/mL					
							PCB-1016 Peak 3	0.04 ug/mL					
							PCB-1016 Peak 4	0.04 ug/mL					
							PCB-1016 Peak 5	0.04 ug/mL					
							PCB-1260 Peak 1	0.04 ug/mL					
							PCB-1260 Peak 2	0.04 ug/mL					
					PCB-1260 Peak 3	0.04 ug/mL							
					PCB-1260 Peak 4	0.04 ug/mL							
					PCB-1260 Peak 5	0.04 ug/mL							
					.AR1660PAR_00039	12/06/18	06/06/18	HEXANE, Lot 181539	100 mL	TCX/DCBPAR_00031	0.2 mL	DCB Decachlorobiphenyl	0.004 ug/mL
												Tetrachloro-m-xylene	0.004 ug/mL
1260 Res 1	5 ug/mL												
1260 Res 2	5 ug/mL												
1260 Res 3	5 ug/mL												
..PCB1660STK_00025	04/30/19		RESTEK, Lot A094177			(Purchased Reagent)	1260 Res 1	1000 ug/mL					
							1260 Res 2	1000 ug/mL					
							1260 Res 3	1000 ug/mL					
							PCB-1016 Peak 1	1000 ug/mL					
							PCB-1016 Peak 2	1000 ug/mL					
							PCB-1016 Peak 3	1000 ug/mL					
							PCB-1016 Peak 4	1000 ug/mL					
							PCB-1016 Peak 5	1000 ug/mL					
							PCB-1260 Peak 1	5 ug/mL					
							PCB-1260 Peak 2	5 ug/mL					
							PCB-1260 Peak 3	5 ug/mL					
							PCB-1260 Peak 4	5 ug/mL					
							PCB-1260 Peak 5	5 ug/mL					

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-2

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PCB-1260 Peak 2	1000 ug/mL
							PCB-1260 Peak 3	1000 ug/mL
							PCB-1260 Peak 4	1000 ug/mL
							PCB-1260 Peak 5	1000 ug/mL
.TCX/DCBPAR_00031	12/06/18	06/06/18	HEXANE, Lot 181539	100 mL	TCX/DCBSTK_00017	1 mL	DCB Decachlorobiphenyl	2 ug/mL
							Tetrachloro-m-xylene	2 ug/mL
..TCX/DCBSTK_00017	06/30/22		RESTEK, Lot A0125833		(Purchased Reagent)		DCB Decachlorobiphenyl	200 ug/mL
							Tetrachloro-m-xylene	200 ug/mL
AR1660-2_00035	12/06/18	06/06/18	HEXANE, Lot 181539	100 mL	AR1660PAR_00039	2 mL	1260 Res 1	0.1 ug/mL
							1260 Res 2	0.1 ug/mL
							1260 Res 3	0.1 ug/mL
							PCB-1016 Peak 1	0.1 ug/mL
							PCB-1016 Peak 2	0.1 ug/mL
							PCB-1016 Peak 3	0.1 ug/mL
							PCB-1016 Peak 4	0.1 ug/mL
							PCB-1016 Peak 5	0.1 ug/mL
							PCB-1260 Peak 1	0.1 ug/mL
							PCB-1260 Peak 2	0.1 ug/mL
							PCB-1260 Peak 3	0.1 ug/mL
							PCB-1260 Peak 4	0.1 ug/mL
							PCB-1260 Peak 5	0.1 ug/mL
							Tetrachloro-m-xylene	0.008 ug/mL
.AR1660PAR_00039	12/06/18	06/06/18	HEXANE, Lot 181539	100 mL	PCB1660STK_00025	0.5 mL	1260 Res 1	5 ug/mL
							1260 Res 2	5 ug/mL
							1260 Res 3	5 ug/mL
							PCB-1016 Peak 1	5 ug/mL
							PCB-1016 Peak 2	5 ug/mL
							PCB-1016 Peak 3	5 ug/mL
							PCB-1016 Peak 4	5 ug/mL
							PCB-1016 Peak 5	5 ug/mL
							PCB-1260 Peak 1	5 ug/mL
							PCB-1260 Peak 2	5 ug/mL
							PCB-1260 Peak 3	5 ug/mL
							PCB-1260 Peak 4	5 ug/mL
							PCB-1260 Peak 5	5 ug/mL
							..PCB1660STK_00025	04/30/19
							1260 Res 2	1000 ug/mL
							1260 Res 3	1000 ug/mL
							PCB-1016 Peak 1	1000 ug/mL
							PCB-1016 Peak 2	1000 ug/mL
							PCB-1016 Peak 3	1000 ug/mL
							PCB-1016 Peak 4	1000 ug/mL
							PCB-1016 Peak 5	1000 ug/mL
							PCB-1260 Peak 1	1000 ug/mL
							PCB-1260 Peak 2	1000 ug/mL
							PCB-1260 Peak 3	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-2

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PCB-1260 Peak 4	1000 ug/mL
							PCB-1260 Peak 5	1000 ug/mL
.TCX/DCBPAR_00031	12/06/18	06/06/18	HEXANE, Lot 181539	100 mL	TCX/DCBSTK_00017	1 mL	DCB Decachlorobiphenyl	2 ug/mL
							Tetrachloro-m-xylene	2 ug/mL
..TCX/DCBSTK_00017	06/30/22		RESTEK, Lot A0125833		(Purchased Reagent)		DCB Decachlorobiphenyl	200 ug/mL
							Tetrachloro-m-xylene	200 ug/mL
AR1660-3_00034	12/06/18	06/06/18	HEXANE, Lot 181539	100 mL	AR1660PAR_00039	5 mL	1260 Res 1	0.25 ug/mL
							1260 Res 2	0.25 ug/mL
							1260 Res 3	0.25 ug/mL
							PCB-1016 Peak 1	0.25 ug/mL
							PCB-1016 Peak 2	0.25 ug/mL
							PCB-1016 Peak 3	0.25 ug/mL
							PCB-1016 Peak 4	0.25 ug/mL
							PCB-1016 Peak 5	0.25 ug/mL
							PCB-1260 Peak 1	0.25 ug/mL
							PCB-1260 Peak 2	0.25 ug/mL
							PCB-1260 Peak 3	0.25 ug/mL
							PCB-1260 Peak 4	0.25 ug/mL
							PCB-1260 Peak 5	0.25 ug/mL
							Tetrachloro-m-xylene	0.02 ug/mL
.AR1660PAR_00039	12/06/18	06/06/18	HEXANE, Lot 181539	100 mL	PCB1660STK_00025	0.5 mL	1260 Res 1	5 ug/mL
							1260 Res 2	5 ug/mL
							1260 Res 3	5 ug/mL
							PCB-1016 Peak 1	5 ug/mL
							PCB-1016 Peak 2	5 ug/mL
							PCB-1016 Peak 3	5 ug/mL
							PCB-1016 Peak 4	5 ug/mL
							PCB-1016 Peak 5	5 ug/mL
							PCB-1260 Peak 1	5 ug/mL
							PCB-1260 Peak 2	5 ug/mL
							PCB-1260 Peak 3	5 ug/mL
							PCB-1260 Peak 4	5 ug/mL
							PCB-1260 Peak 5	5 ug/mL
							..PCB1660STK_00025	04/30/19
							1260 Res 2	1000 ug/mL
							1260 Res 3	1000 ug/mL
							PCB-1016 Peak 1	1000 ug/mL
							PCB-1016 Peak 2	1000 ug/mL
							PCB-1016 Peak 3	1000 ug/mL
							PCB-1016 Peak 4	1000 ug/mL
							PCB-1016 Peak 5	1000 ug/mL
							PCB-1260 Peak 1	1000 ug/mL
							PCB-1260 Peak 2	1000 ug/mL
							PCB-1260 Peak 3	1000 ug/mL
							PCB-1260 Peak 4	1000 ug/mL
							PCB-1260 Peak 5	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-2

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.TCX/DCBPAR_00031	12/06/18	06/06/18	HEXANE, Lot 181539	100 mL	TCX/DCBSTK_00017	1 mL	DCB Decachlorobiphenyl Tetrachloro-m-xylene	2 ug/mL 2 ug/mL
..TCX/DCBSTK_00017	06/30/22		RESTEK, Lot A0125833		(Purchased Reagent)		DCB Decachlorobiphenyl Tetrachloro-m-xylene	200 ug/mL 200 ug/mL
AR1660-4 (608)_00018	12/06/18	06/06/18	HEXANE, Lot 181539	100 mL	AR1660PAR_00039	10 mL	1260 Res 1 1260 Res 2 1260 Res 3 PCB-1016 Peak 1 PCB-1016 Peak 2 PCB-1016 Peak 3 PCB-1016 Peak 4 PCB-1016 Peak 5 PCB-1260 Peak 1 PCB-1260 Peak 2 PCB-1260 Peak 3 PCB-1260 Peak 4 PCB-1260 Peak 5	0.5 ug/mL 0.5 ug/mL 0.5 ug/mL 0.5 ug/mL 0.5 ug/mL 0.5 ug/mL 0.5 ug/mL 0.5 ug/mL 0.5 ug/mL 0.5 ug/mL 0.5 ug/mL 0.5 ug/mL 0.5 ug/mL 0.5 ug/mL
					TCX/DCBPAR_00031	2 mL	DCB Decachlorobiphenyl Tetrachloro-m-xylene	0.04 ug/mL 0.04 ug/mL
.AR1660PAR_00039	12/06/18	06/06/18	HEXANE, Lot 181539	100 mL	PCB1660STK_00025	0.5 mL	1260 Res 1 1260 Res 2 1260 Res 3 PCB-1016 Peak 1 PCB-1016 Peak 2 PCB-1016 Peak 3 PCB-1016 Peak 4 PCB-1016 Peak 5 PCB-1260 Peak 1 PCB-1260 Peak 2 PCB-1260 Peak 3 PCB-1260 Peak 4 PCB-1260 Peak 5	5 ug/mL 5 ug/mL 5 ug/mL 5 ug/mL 5 ug/mL 5 ug/mL 5 ug/mL 5 ug/mL 5 ug/mL 5 ug/mL 5 ug/mL 5 ug/mL 5 ug/mL
..PCB1660STK_00025	04/30/19		RESTEK, Lot A094177		(Purchased Reagent)		1260 Res 1 1260 Res 2 1260 Res 3 PCB-1016 Peak 1 PCB-1016 Peak 2 PCB-1016 Peak 3 PCB-1016 Peak 4 PCB-1016 Peak 5 PCB-1260 Peak 1 PCB-1260 Peak 2 PCB-1260 Peak 3 PCB-1260 Peak 4 PCB-1260 Peak 5	1000 ug/mL 1000 ug/mL 1000 ug/mL 1000 ug/mL 1000 ug/mL 1000 ug/mL 1000 ug/mL 1000 ug/mL 1000 ug/mL 1000 ug/mL 1000 ug/mL 1000 ug/mL
.TCX/DCBPAR_00031	12/06/18	06/06/18	HEXANE, Lot 181539	100 mL	TCX/DCBSTK_00017	1 mL	DCB Decachlorobiphenyl Tetrachloro-m-xylene	2 ug/mL 2 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-2

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration	
					Reagent ID	Volume Added			
..TCX/DCBSTK_00017	06/30/22		RESTEK, Lot A0125833			(Purchased Reagent)	DCB Decachlorobiphenyl Tetrachloro-m-xylene	200 ug/mL 200 ug/mL	
AR1660-5_00034	12/06/18	06/06/18	HEXANE, Lot 181539	50 mL	AR1660PAR_00039	7.5 mL	1260 Res 1	0.75 ug/mL	
							1260 Res 2	0.75 ug/mL	
							1260 Res 3	0.75 ug/mL	
							PCB-1016 Peak 1	0.75 ug/mL	
							PCB-1016 Peak 2	0.75 ug/mL	
							PCB-1016 Peak 3	0.75 ug/mL	
							PCB-1016 Peak 4	0.75 ug/mL	
							PCB-1016 Peak 5	0.75 ug/mL	
							PCB-1260 Peak 1	0.75 ug/mL	
							PCB-1260 Peak 2	0.75 ug/mL	
							PCB-1260 Peak 3	0.75 ug/mL	
							PCB-1260 Peak 4	0.75 ug/mL	
							PCB-1260 Peak 5	0.75 ug/mL	
.AR1660PAR_00039	12/06/18	06/06/18	HEXANE, Lot 181539	100 mL	PCB1660STK_00025	0.5 mL	1260 Res 1	5 ug/mL	
							1260 Res 2	5 ug/mL	
							1260 Res 3	5 ug/mL	
							PCB-1016 Peak 1	5 ug/mL	
							PCB-1016 Peak 2	5 ug/mL	
							PCB-1016 Peak 3	5 ug/mL	
							PCB-1016 Peak 4	5 ug/mL	
							PCB-1016 Peak 5	5 ug/mL	
							PCB-1260 Peak 1	5 ug/mL	
							PCB-1260 Peak 2	5 ug/mL	
							PCB-1260 Peak 3	5 ug/mL	
							PCB-1260 Peak 4	5 ug/mL	
							PCB-1260 Peak 5	5 ug/mL	
							..PCB1660STK_00025	04/30/19	
1260 Res 2	1000 ug/mL								
1260 Res 3	1000 ug/mL								
PCB-1016 Peak 1	1000 ug/mL								
PCB-1016 Peak 2	1000 ug/mL								
PCB-1016 Peak 3	1000 ug/mL								
PCB-1016 Peak 4	1000 ug/mL								
PCB-1016 Peak 5	1000 ug/mL								
PCB-1260 Peak 1	1000 ug/mL								
PCB-1260 Peak 2	1000 ug/mL								
PCB-1260 Peak 3	1000 ug/mL								
PCB-1260 Peak 4	1000 ug/mL								
PCB-1260 Peak 5	1000 ug/mL								
..TCX/DCBPAR_00031	12/06/18	06/06/18	HEXANE, Lot 181539	100 mL	TCX/DCBSTK_00017	1 mL			
..TCX/DCBSTK_00017	06/30/22		RESTEK, Lot A0125833			(Purchased Reagent)	DCB Decachlorobiphenyl Tetrachloro-m-xylene	200 ug/mL 200 ug/mL	

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

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SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration	
					Reagent ID	Volume Added			
AR1660-6_00038	12/06/18	06/06/18	HEXANE, Lot 181539	50 mL	AR1660PAR_00039	10 mL	1260 Res 1	1 ug/mL	
							1260 Res 2	1 ug/mL	
							1260 Res 3	1 ug/mL	
							PCB-1016 Peak 1	1 ug/mL	
							PCB-1016 Peak 2	1 ug/mL	
							PCB-1016 Peak 3	1 ug/mL	
							PCB-1016 Peak 4	1 ug/mL	
							PCB-1016 Peak 5	1 ug/mL	
							PCB-1260 Peak 1	1 ug/mL	
							PCB-1260 Peak 2	1 ug/mL	
							PCB-1260 Peak 3	1 ug/mL	
							PCB-1260 Peak 4	1 ug/mL	
							PCB-1260 Peak 5	1 ug/mL	
							Tetrachloro-m-xylene	0.08 ug/mL	
.AR1660PAR_00039	12/06/18	06/06/18	HEXANE, Lot 181539	100 mL	PCB1660STK_00025	0.5 mL	1260 Res 1	5 ug/mL	
							1260 Res 2	5 ug/mL	
							1260 Res 3	5 ug/mL	
							PCB-1016 Peak 1	5 ug/mL	
							PCB-1016 Peak 2	5 ug/mL	
							PCB-1016 Peak 3	5 ug/mL	
							PCB-1016 Peak 4	5 ug/mL	
							PCB-1016 Peak 5	5 ug/mL	
							PCB-1260 Peak 1	5 ug/mL	
							PCB-1260 Peak 2	5 ug/mL	
							PCB-1260 Peak 3	5 ug/mL	
							PCB-1260 Peak 4	5 ug/mL	
							PCB-1260 Peak 5	5 ug/mL	
							..PCB1660STK_00025	04/30/19	
	1260 Res 2	1000 ug/mL							
	1260 Res 3	1000 ug/mL							
	PCB-1016 Peak 1	1000 ug/mL							
	PCB-1016 Peak 2	1000 ug/mL							
	PCB-1016 Peak 3	1000 ug/mL							
	PCB-1016 Peak 4	1000 ug/mL							
	PCB-1016 Peak 5	1000 ug/mL							
	PCB-1260 Peak 1	1000 ug/mL							
	PCB-1260 Peak 2	1000 ug/mL							
	PCB-1260 Peak 3	1000 ug/mL							
	PCB-1260 Peak 4	1000 ug/mL							
	PCB-1260 Peak 5	1000 ug/mL							
.TCX/DCBPAR_00031	12/06/18	06/06/18	HEXANE, Lot 181539	100 mL	TCX/DCBSTK_00017	1 mL			
							Tetrachloro-m-xylene	2 ug/mL	
..TCX/DCBSTK_00017	06/30/22		RESTEK, Lot A0125833				(Purchased Reagent)	DCB Decachlorobiphenyl	200 ug/mL
								Tetrachloro-m-xylene	200 ug/mL
AR1660CCV4_00207	12/06/18	08/16/18	HEXANE, Lot 196294	100 mL	AR1660PAR_00039	10 mL	PCB-1016	0.5 ug/mL	
								PCB-1260	0.5 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-2

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					TCX/DCBPAR_00031	2 mL	DCB Decachlorobiphenyl	0.04 ug/mL
.AR1660PAR_00039	12/06/18	06/06/18	HEXANE, Lot 181539	100 mL	PCB1660STK_00025	0.5 mL	Tetrachloro-m-xylene	0.04 ug/mL
..PCB1660STK_00025	04/30/19	RESTEK, Lot A094177			(Purchased Reagent)		PCB-1016	5 ug/mL
							PCB-1260	5 ug/mL
.TCX/DCBPAR_00031	12/06/18	06/06/18	HEXANE, Lot 181539	100 mL	TCX/DCBSTK_00017	1 mL	PCB-1016	1000 ug/mL
							PCB-1260	1000 ug/mL
..TCX/DCBSTK_00017	06/30/22	RESTEK, Lot A0125833			(Purchased Reagent)		DCB Decachlorobiphenyl	2 ug/mL
							Tetrachloro-m-xylene	2 ug/mL
							DCB Decachlorobiphenyl	200 ug/mL
							Tetrachloro-m-xylene	200 ug/mL
AR2154-4_00006	12/15/18	06/15/18	HEXANE, Lot 181539	100 mL	AR2154PAR_00003	10 mL	PCB-1221 Peak 1	0.5 ug/mL
							PCB-1221 Peak 2	0.5 ug/mL
							PCB-1221 Peak 3	0.5 ug/mL
							PCB-1254 Peak 1	0.5 ug/mL
							PCB-1254 Peak 2	0.5 ug/mL
							PCB-1254 Peak 3	0.5 ug/mL
							PCB-1254 Peak 4	0.5 ug/mL
							PCB-1254 Peak 5	0.5 ug/mL
.AR2154PAR_00003	12/15/18	06/15/18	HEXANE, Lot 181539	100 mL	PCBAR12211254_00004	0.5 mL	PCB-1221 Peak 1	5 ug/mL
							PCB-1221 Peak 2	5 ug/mL
							PCB-1221 Peak 3	5 ug/mL
							PCB-1254 Peak 1	5 ug/mL
							PCB-1254 Peak 2	5 ug/mL
							PCB-1254 Peak 3	5 ug/mL
							PCB-1254 Peak 4	5 ug/mL
							PCB-1254 Peak 5	5 ug/mL
..PCBAR12211254_00004	01/31/24	RESTEK, Lot A0131802			(Purchased Reagent)		PCB-1221 Peak 1	1000 ug/mL
							PCB-1221 Peak 2	1000 ug/mL
							PCB-1221 Peak 3	1000 ug/mL
							PCB-1254 Peak 1	1000 ug/mL
							PCB-1254 Peak 2	1000 ug/mL
							PCB-1254 Peak 3	1000 ug/mL
							PCB-1254 Peak 4	1000 ug/mL
							PCB-1254 Peak 5	1000 ug/mL
AR3262-4_00003	09/21/18	03/21/18	HEXANE, Lot 182619	100 mL	PCBAR12321262_00002	0.05 mL	PCB-1232 Peak 1	0.5 ug/mL
							PCB-1232 Peak 2	0.5 ug/mL
							PCB-1232 Peak 3	0.5 ug/mL
							PCB-1232 Peak 4	0.5 ug/mL
							PCB-1232 Peak 5	0.5 ug/mL
							PCB-1262 Peak 1	0.5 ug/mL
							PCB-1262 Peak 2	0.5 ug/mL
							PCB-1262 Peak 3	0.5 ug/mL
							PCB-1262 Peak 4	0.5 ug/mL
.PCBAR12321262_00002	05/31/23	RESTEK, Lot A0125033			(Purchased Reagent)		PCB-1232 Peak 1	1000 ug/mL
							PCB-1232 Peak 2	1000 ug/mL
							PCB-1232 Peak 3	1000 ug/mL
							PCB-1232 Peak 4	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-2

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PCB-1232 Peak 5	1000 ug/mL
							PCB-1262 Peak 1	1000 ug/mL
							PCB-1262 Peak 2	1000 ug/mL
							PCB-1262 Peak 3	1000 ug/mL
							PCB-1262 Peak 4	1000 ug/mL
AR4268-4_00005	09/21/18	03/21/18	HEXANE, Lot 182619	100 mL	PCBAR12421268_00002	0.05 mL	PCB-1242 Peak 1	0.5 ug/mL
							PCB-1242 Peak 2	0.5 ug/mL
							PCB-1242 Peak 3	0.5 ug/mL
							PCB-1242 Peak 4	0.5 ug/mL
							PCB-1242 Peak 5	0.5 ug/mL
							PCB-1268 Peak 1	0.5 ug/mL
							PCB-1268 Peak 2	0.5 ug/mL
							PCB-1268 Peak 3	0.5 ug/mL
							PCB-1268 Peak 4	0.5 ug/mL
							PCB-1268 Peak 5	0.5 ug/mL
.PCBAR12421268_00002	05/30/23		RESTEK, Lot A0125041			(Purchased Reagent)	PCB-1242 Peak 1	1000 ug/mL
							PCB-1242 Peak 2	1000 ug/mL
							PCB-1242 Peak 3	1000 ug/mL
							PCB-1242 Peak 4	1000 ug/mL
							PCB-1242 Peak 5	1000 ug/mL
							PCB-1268 Peak 1	1000 ug/mL
							PCB-1268 Peak 2	1000 ug/mL
							PCB-1268 Peak 3	1000 ug/mL
							PCB-1268 Peak 4	1000 ug/mL
							PCB-1268 Peak 5	1000 ug/mL
EXBNAL1SPW_00224	09/30/18	07/31/18	MEOH, Lot 4766706	50 mL	SMcaLs1St1_ST_00037	2000 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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-2

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Methylnaphthalene	40 ug/mL
							2-Methylphenol	40 ug/mL
							2-Nitroaniline	40 ug/mL
							2-Nitrophenol	40 ug/mL
							3 & 4 Methylphenol	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-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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-2

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							N-Nitrosodiphenylamine	40 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	80 ug/mL
					SMcaLs1St10_00023	1000 uL	Benzoic acid	80 ug/mL
							Indene	80 ug/mL
					SMcaLs1St10_00025	1000 uL	Benzoic acid	80 ug/mL
							Indene	80 ug/mL
					SMcaLs1St11_00026	1000 uL	Atrazine	40 ug/mL
							Caprolactam	40 ug/mL
					SMcaLs1St9_ST_00023	1000 uL	3,3'-Dichlorobenzidine	40 ug/mL
							Benzydine	40 ug/mL
.SMcaLs1St1_ST_00037	09/30/18		RESTEK, Lot A0125805		(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 & 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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-2

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-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	1000 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	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-2

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.SMcaLs1St10_00023	05/31/19		Restek, Lot A0132744		(Purchased Reagent)		Benzoic acid Indene	2000 ug/mL 2000 ug/mL
.SMcaLs1St10_00025	05/31/19		Restek, Lot A0132744		(Purchased Reagent)		Benzoic acid Indene	2000 ug/mL 2000 ug/mL
.SMcaLs1St11_00026	11/30/18		Restek, Lot A0127580		(Purchased Reagent)		Atrazine Caprolactam	2000 ug/mL 2000 ug/mL
.SMcaLs1St9_ST_00023	11/30/18		Restek, Lot A0127472		(Purchased Reagent)		3,3'-Dichlorobenzidine Benzidine	2000 ug/mL 2000 ug/mL
EXBNASURTS_00053	12/31/20		Restek, Lot A0133465		(Purchased Reagent)		2,4,6-Tribromophenol 2-Fluorobiphenyl (Surr) 2-Fluorophenol Nitrobenzene-d5 (Surr) Phenol-d5 Terphenyl-d14 (Surr)	100 ug/mL 100 ug/mL 100 ug/mL 100 ug/mL 100 ug/mL 100 ug/mL
EXCPPSUW_00979	02/28/19	08/29/18	ACETONE, Lot 4876075	100 mL	EXCPPSUP_00175	10 mL	DCB Decachlorobiphenyl Tetrachloro-m-xylene	0.4 ug/mL 0.4 ug/mL
.EXCPPSUP_00175	02/28/19	08/28/18	ACETONE, Lot 4876075	100 mL	EGCPPSUST_00048	2 mL	DCB Decachlorobiphenyl Tetrachloro-m-xylene	4 ug/mL 4 ug/mL
..EGCPPSUST_00048	06/30/24		Restek, Lot A0136320		(Purchased Reagent)		DCB Decachlorobiphenyl Tetrachloro-m-xylene	200 ug/mL 200 ug/mL
EXPCBSPW66_00162	11/25/18	07/24/18	MEOH, Lot 4766706	100 mL	EXPCBSPP66_00038	10 mL	1260 Res 1 1260 Res 2 1260 Res 3 PCB-1016 PCB-1016 Peak 1 PCB-1016 Peak 2 PCB-1016 Peak 3 PCB-1016 Peak 4 PCB-1016 Peak 5 PCB-1260 PCB-1260 Peak 1 PCB-1260 Peak 2 PCB-1260 Peak 3 PCB-1260 Peak 4 PCB-1260 Peak 5	5 ug/mL 5 ug/mL 5 ug/mL 5 ug/mL 5 ug/mL 5 ug/mL 5 ug/mL 5 ug/mL 5 ug/mL 5 ug/mL 5 ug/mL 5 ug/mL 5 ug/mL 5 ug/mL 5 ug/mL 5 ug/mL
.EXPCBSPP66_00038	11/25/18	05/25/18	MEOH, Lot 4766704	50 mL	PCB1660STK_00024	2.5 mL	1260 Res 1 1260 Res 2 1260 Res 3 PCB-1016 PCB-1016 Peak 1 PCB-1016 Peak 2 PCB-1016 Peak 3 PCB-1016 Peak 4 PCB-1016 Peak 5 PCB-1260 PCB-1260 Peak 1 PCB-1260 Peak 2	50 ug/mL 50 ug/mL 50 ug/mL 50 ug/mL 50 ug/mL 50 ug/mL 50 ug/mL 50 ug/mL 50 ug/mL 50 ug/mL 50 ug/mL 50 ug/mL 50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-150867-2

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PCB-1260 Peak 3	50 ug/mL
							PCB-1260 Peak 4	50 ug/mL
							PCB-1260 Peak 5	50 ug/mL
..PCB1660STK_00024	07/31/23		RESTEK, Lot A0126770		(Purchased Reagent)		1260 Res 1	1000 ug/mL
							1260 Res 2	1000 ug/mL
							1260 Res 3	1000 ug/mL
							PCB-1016	1000 ug/mL
							PCB-1016 Peak 1	1000 ug/mL
							PCB-1016 Peak 2	1000 ug/mL
							PCB-1016 Peak 3	1000 ug/mL
							PCB-1016 Peak 4	1000 ug/mL
							PCB-1016 Peak 5	1000 ug/mL
							PCB-1260	1000 ug/mL
							PCB-1260 Peak 1	1000 ug/mL
							PCB-1260 Peak 2	1000 ug/mL
							PCB-1260 Peak 3	1000 ug/mL
							PCB-1260 Peak 4	1000 ug/mL
							PCB-1260 Peak 5	1000 ug/mL
HIVOL_DFTPPWK_00119							4,4'-DDD	
							4,4'-DDE	
							Aramite, Total	
							Creosote	
							Diallate	
							Isosafrole	
							Methyl Phenols, Total	
							Tentatively Identified Compound	
							Total Cresols, TCEQ Definition	
					SMDFTPPWK_00113	200 uL	4,4'-DDT	10 ug/mL
							Benzidine	10 ug/mL
							DFTPP	10 ug/mL
							Pentachlorophenol	10 ug/mL
.SMDFTPPWK_00113	10/12/18	04/12/18	Methylene Chloride, Lot 188082	1000 uL	SMTUNEWKS_00016	50 uL	4,4'-DDT	50 ug/mL
							Benzidine	50 ug/mL
							DFTPP	50 ug/mL
							Pentachlorophenol	50 ug/mL
..SMTUNEWKS_00016	02/06/19	02/06/18	n/a, Lot n/a	1000 uL	SMTUNESTK_00013	1000 uL	4,4'-DDT	1000 ug/mL
							Benzidine	1000 ug/mL
							DFTPP	1000 ug/mL
							Pentachlorophenol	1000 ug/mL
...SMTUNESTK_00013	10/31/20		RESTEK, Lot A0131612		(Purchased Reagent)		4,4'-DDT	1000 ug/mL
							Benzidine	1000 ug/mL
							DFTPP	1000 ug/mL
							Pentachlorophenol	1000 ug/mL
ICV1660-3_00050	12/14/18	06/14/18	HEXANE, Lot 181539	100 mL	ICV1660PAR_00026	5 mL	PCB-1016	0.25 ug/mL
							PCB-1260	0.25 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-2

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration		
					Reagent ID	Volume Added				
.ICV1660PAR_00026	12/14/18	06/14/18	HEXANE, Lot 181359	100 mL	PCB1660ICVSTK_00003	0.5 mL	PCB-1016 PCB-1260	5 ug/mL 5 ug/mL		
..PCB1660ICVSTK_00003	01/31/22		RESTEK, Lot A0114674		(Purchased Reagent)		PCB-1016 PCB-1260	1000 ug/mL 1000 ug/mL		
IS8000WRK_00022	12/13/18	06/13/18	HEXANE, Lot 181539	100 ug/mL	IS 8000 STK_00004	0.2 mL	1-Bromo-2-nitrobenzene	2 ug/mL		
.IS 8000 STK 00004	08/31/20		RESTEK, Lot A0127264		(Purchased Reagent)		1-Bromo-2-nitrobenzene	1000 ug/mL		
M18BSTKHG_00001	02/26/19		Inorganic Ventures, Lot J2-HG02140		(Purchased Reagent)		Mercury	1000 ug/mL		
M18ESTKHG_00001	02/28/25		ULTRA, Lot CS-0444		(Purchased Reagent)		Mercury	1000 ug/mL		
M18FICVMS_00002	11/20/18	07/11/18	Acidified Water, Lot 192582/198300	1000 mL	M17KSTKMS_00001	4 mL	Silver	0.04 ug/mL		
					M18ESTKMS_00001	2 mL	Arsenic	0.2 ug/mL		
							Barium	0.2 ug/mL		
							Cadmium	0.2 ug/mL		
							Chromium	0.2 ug/mL		
			Lead	0.2 ug/mL						
			Selenium	0.2 ug/mL						
.M17KSTKMS_00001	11/20/18		HighPurity, Lot 1727034		(Purchased Reagent)		Silver	10 ug/mL		
.M18ESTKMS_00001	05/31/19		High Purity, Lot 1813655				(Purchased Reagent)		Arsenic	100 ug/mL
							Barium	100 ug/mL		
							Cadmium	100 ug/mL		
							Chromium	100 ug/mL		
							Lead	100 ug/mL		
			Selenium	100 ug/mL						
M18GCCVMS_00001	03/21/19	07/11/18	Acidified Water, Lot 192582/198300	1000 mL	M18CSTKMS_00002	5 mL	Silver	50 ug/L		
					M18DSTKMS_00001	2.5 mL	Arsenic	250 ug/L		
							Barium	250 ug/L		
							Cadmium	250 ug/L		
							Chromium	250 ug/L		
			Lead	250 ug/L						
			Selenium	250 ug/L						
.M18CSTKMS_00002	03/21/19		Inorganic Ventures, Lot M2-AG657490		(Purchased Reagent)		Silver	10 ug/mL		
.M18DSTKMS_00001	04/03/19		Inorganic Ventures, Lot M2-MEB661707				(Purchased Reagent)		Arsenic	100 ug/mL
							Barium	100 ug/mL		
							Cadmium	100 ug/mL		
							Chromium	100 ug/mL		
							Lead	100 ug/mL		
			Selenium	100 ug/mL						
M18GCRIMS_00001	04/23/19	07/11/18	acidic water, Lot 192582/198300	1000 mL	M18DSTKMS_00003	2 mL	Arsenic	2 ug/L		
							Barium	5 ug/L		
							Cadmium	1 ug/L		
							Chromium	10 ug/L		
							Lead	1 ug/L		
			Selenium	5 ug/L						

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-2

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration					
					Reagent ID	Volume Added							
.M18DSTKMS_00003	04/23/19		Inorganic Ventures, Lot M2-MEB658249			(Purchased Reagent)	Silver	1 ug/L					
							Arsenic	1 ug/mL					
							Barium	2.5 ug/mL					
							Cadmium	0.5 ug/mL					
							Chromium	5 ug/mL					
							Lead	0.5 ug/mL					
							Selenium	2.5 ug/mL					
Silver	0.5 ug/mL												
M18GMRLMS_00001	04/23/19	07/11/18	Acidified Water, Lot 192582/198300	1000 mL		M18DSTKMS_00003	1 mL	Arsenic	1 ug/L				
								Barium	2.5 ug/L				
								Cadmium	0.5 ug/L				
								Chromium	5 ug/L				
								Lead	0.5 ug/L				
								Selenium	2.5 ug/L				
								Silver	0.5 ug/L				
.M18DSTKMS_00003	04/23/19		Inorganic Ventures, Lot M2-MEB658249			(Purchased Reagent)	Arsenic	1 ug/mL					
							Barium	2.5 ug/mL					
							Cadmium	0.5 ug/mL					
							Chromium	5 ug/mL					
							Lead	0.5 ug/mL					
							Selenium	2.5 ug/mL					
							Silver	0.5 ug/mL					
M18HICSAAMS_00006	09/07/18	08/31/18	na, Lot na	100 mL		M18DISBMS_00001	1 mL	Arsenic	20 ug/L				
								B	50 ug/L				
								Barium	20 ug/L				
								Be	20 ug/L				
								Cadmium	20 ug/L				
								Chromium	20 ug/L				
								Co	20 ug/L				
								Cu	20 ug/L				
								Lead	20 ug/L				
								Mn	20 ug/L				
								Ni	20 ug/L				
								Sb	20 ug/L				
								Selenium	20 ug/L				
								Silver	20 ug/L				
				Sr	20 ug/L								
				Tl	20 ug/L								
				V	20 ug/L								
				Zn	20 ug/L								
										M18FSTKMS_00003	10 mL	Al	100000 ug/L
												Ca	100000 ug/L
												Fe	100000 ug/L
												K	100000 ug/L
Mg	100000 ug/L												
Mo	2000 ug/L												

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-150867-2

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Na	100000 ug/L
							Ti	2000 ug/L
.M18DISBMS_00001	04/25/19		inorganic ventures, Lot N2-MEB665955		(Purchased Reagent)		Arsenic	2 ug/mL
							B	5 ug/mL
							Barium	2 ug/mL
							Be	2 ug/mL
							Cadmium	2 ug/mL
							Chromium	2 ug/mL
							Co	2 ug/mL
							Cu	2 ug/mL
							Lead	2 ug/mL
							Mn	2 ug/mL
							Ni	2 ug/mL
							Sb	2 ug/mL
							Selenium	2 ug/mL
							Silver	2 ug/mL
							Sr	2 ug/mL
							Tl	2 ug/mL
							V	2 ug/mL
							Zn	2 ug/mL
.M18FSTKMS_00003	06/21/19		InorganicVentures, Lot M2-MEB662772		(Purchased Reagent)		Al	1000 ug/mL
							Ca	1000 ug/mL
							Fe	1000 ug/mL
							K	1000 ug/mL
							Mg	1000 ug/mL
							Mo	20 ug/mL
							Na	1000 ug/mL
							Ti	20 ug/mL
M18HICSAMS_00005	09/07/18	08/31/18	n/a, Lot n/a	100 mL	M18FSTKMS_00003	10 mL	Al	100000 ug/L
							Ca	100000 ug/L
							Fe	100000 ug/L
							K	100000 ug/L
							Mg	100000 ug/L
							Mo	2000 ug/L
							Na	100000 ug/L
							Ti	2000 ug/L
.M18FSTKMS_00003	06/21/19		InorganicVentures, Lot M2-MEB662772		(Purchased Reagent)		Al	1000 ug/mL
							Ca	1000 ug/mL
							Fe	1000 ug/mL
							K	1000 ug/mL
							Mg	1000 ug/mL
							Mo	20 ug/mL
							Na	1000 ug/mL
							Ti	20 ug/mL
M18HSPKMS_00003	04/03/19	08/29/18	Nitric Acid Water, Lot 200458	500 mL	M18DSTKIC_00003	4.5 mL	Selenium	10000 ug/L
					M18DSTKIC_00008	4 mL	Lead	10000 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-2

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration													
					Reagent ID	Volume Added															
					M18DSTKIC_00009	2.5 mL	Tl	10000 ug/L													
					M18GSTKIC_00004	3 mL	Arsenic	10000 ug/L													
					M18HSTKMS_00003	50 mL	Arsenic	10000 ug/L													
							B	100000 ug/L													
							Barium	50000 ug/L													
							Be	5000 ug/L													
							Cadmium	5000 ug/L													
							Chromium	20000 ug/L													
							Co	50000 ug/L													
							Cu	25000 ug/L													
							Fe	100000 ug/L													
							Lead	10000 ug/L													
							Mn	50000 ug/L													
							Ni	50000 ug/L													
							Selenium	10000 ug/L													
							Sr	100000 ug/L													
					Tl	10000 ug/L															
					V	50000 ug/L															
					Zn	50000 ug/L															
					M18HSTKMS_00004	50 mL	Mo	100000 ug/L													
							Sb	50000 ug/L													
							Si	500000 ug/L													
							Silver	5000 ug/L													
							Sn	100000 ug/L													
					M18JHSTKMS_00001	50 mL	Ti	100000 ug/L													
							Al	200000 ug/L													
							Ca	1000000 ug/L													
K	1000000 ug/L																				
Mg	1000000 ug/L																				
.M18DSTKIC_00003	04/03/19	Inorganic Ventures, Lot M2-SE663138	(Purchased Reagent)	Selenium	1000 ug/mL																
				.M18DSTKIC_00008	04/03/19	Inorganic Ventures, Lot M2-PB656988	(Purchased Reagent)	Lead	1000 ug/mL												
								.M18DSTKIC_00009	04/03/19	Inorganic Ventures, Lot M2-TL661610	(Purchased Reagent)	Tl	1000 ug/mL								
												.M18GSTKIC_00004	07/13/19	Inorganic Ventures, Lot M2-AS657780	(Purchased Reagent)	Arsenic	1000 ug/mL				
																.M18HSTKMS_00003	08/31/19	Environmental Express, Lot 1822223	(Purchased Reagent)	Arsenic	40000 ug/L
																				B	1000000 ug/L
																				Barium	500000 ug/L
																				Be	50000 ug/L
																				Cadmium	50000 ug/L
																				Chromium	200000 ug/L
																				Co	500000 ug/L
																				Cu	250000 ug/L
																				Fe	1000000 ug/L
																				Lead	20000 ug/L
Mn	500000 ug/L																				
Ni	500000 ug/L																				
Selenium	10000 ug/L																				
Sr	1000000 ug/L																				

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-2

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Tl	50000 ug/L
							V	500000 ug/L
							Zn	500000 ug/L
.M18HSTKMS_00004	08/31/19		Environmental Express, Lot 1822216		(Purchased Reagent)		Mo	1000000 ug/L
							Sb	500000 ug/L
							Si	5000000 ug/L
							Silver	50000 ug/L
							Sn	1000000 ug/L
							Ti	1000000 ug/L
.M18JHSTKMS_00001	08/31/19		Enviromental Express, Lot 1822213		(Purchased Reagent)		Al	2000000 ug/L
							Ca	10000000 ug/L
							K	10000000 ug/L
							Mg	10000000 ug/L
							Na	10000000 ug/L
SM_HIVOLISTD_00215	12/08/18	06/19/18	Methylene Chloride, Lot 199301	4000 uL	SMISTDWORK_00365	1600 uL	1,4-Dichlorobenzene-d4	320 ug/mL
							Acenaphthene-d10	320 ug/mL
							Chrysene-d12	320 ug/mL
							Naphthalene-d8	320 ug/mL
							Perylene-d12	320 ug/mL
							Phenanthrene-d10	320 ug/mL
.SMISTDWORK_00365	12/08/18	06/08/18	Methylene Chloride, Lot 198794	4000 uL	SMISTD_WK_00045	1600 uL	1,4-Dichlorobenzene-d4	800 ug/mL
							Acenaphthene-d10	800 ug/mL
							Chrysene-d12	800 ug/mL
							Naphthalene-d8	800 ug/mL
							Perylene-d12	800 ug/mL
							Phenanthrene-d10	800 ug/mL
..SMISTD_WK_00045	05/30/19	05/30/18	n/a, Lot n/a	5000 uL	SMISTD_ST_00015	5000 uL	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
...SMISTD_ST_00015	08/31/22		RESTEK, Lot A0129635		(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
SM1s1_5uL3ICV_00005	01/06/19	07/17/18	Methylene Chloride, Lot 200432	1000 uL	SM_HIVOLISTD_00219	10 uL	1,4-Dichlorobenzene-d4	3.2 ug/mL
							Acenaphthene-d10	3.2 ug/mL
							Chrysene-d12	3.2 ug/mL
							Naphthalene-d8	3.2 ug/mL
							Perylene-d12	3.2 ug/mL
							Phenanthrene-d10	3.2 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-2

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.SM_HIVOLISTD_00219	01/11/19	07/11/18	Methylene Chloride, Lot 200432	4000 uL	SMISTDWORK_00367	1600 uL	1,4-Dichlorobenzene-d4	320 ug/mL
							Acenaphthene-d10	320 ug/mL
							Chrysene-d12	320 ug/mL
							Naphthalene-d8	320 ug/mL
							Perylene-d12	320 ug/mL
..SMISTDWORK_00367	01/11/19	07/11/18	Methylene Chloride, Lot 200432	4000 uL	SMISTD_WK_00046	1600 ug/Wipe	1,4-Dichlorobenzene-d4	800 ug/mL
							Acenaphthene-d10	800 ug/mL
							Chrysene-d12	800 ug/mL
							Naphthalene-d8	800 ug/mL
							Perylene-d12	800 ug/mL
...SMISTD_WK_00046	07/11/19	07/11/18	n/a, Lot n/a	5000 uL	SMISTD_ST_00015	5000 uL	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
....SMISTD_ST_00015	08/31/22		RESTEK, Lot A0129635			(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
SM1s1_5uL3ICV_00005	01/06/19	07/17/18	Methylene Chloride, Lot 200432	1000 uL	SMICVL1_3W5uL_00003	250 uL	1-Methylnaphthalene	10 ug/mL
							2-Methylnaphthalene	10 ug/mL
							Acenaphthene	10 ug/mL
							Acenaphthylene	10 ug/mL
							Anthracene	10 ug/mL
							Benzo[a]anthracene	10 ug/mL
							Benzo[a]pyrene	10 ug/mL
							Benzo[b]fluoranthene	10 ug/mL
							Benzo[g,h,i]perylene	10 ug/mL
							Benzo[k]fluoranthene	10 ug/mL
							Chrysene	10 ug/mL
							Dibenz(a,h)anthracene	10 ug/mL
							Fluoranthene	10 ug/mL
							Fluorene	10 ug/mL
							Indeno[1,2,3-cd]pyrene	10 ug/mL
							Naphthalene	10 ug/mL
Phenanthrene	10 ug/mL							
Pyrene	10 ug/mL							
.SMICVL1_3W5uL_00003	01/06/19	07/17/18	Methylene Chloride, Lot 200432	1000 uL	SMICVL1_3WK_00003	200 uL	1-Methylnaphthalene	40 ug/mL
							2-Methylnaphthalene	40 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-2

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Acenaphthene	40 ug/mL
							Acenaphthylene	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
							Chrysene	40 ug/mL
							Dibenz(a,h)anthracene	40 ug/mL
							Fluoranthene	40 ug/mL
							Fluorene	40 ug/mL
							Indeno[1,2,3-cd]pyrene	40 ug/mL
							Naphthalene	40 ug/mL
							Phenanthrene	40 ug/mL
							Pyrene	40 ug/mL
..SMICVL1_3WK_00003	01/06/19	07/17/18	Methylene Chloride, Lot 200432	1000 uL	SMicvLs1S1_WK_00011	200 uL	1-Methylnaphthalene	200 ug/mL
							2-Methylnaphthalene	200 ug/mL
							Acenaphthene	200 ug/mL
							Acenaphthylene	200 ug/mL
							Anthracene	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
							Chrysene	200 ug/mL
							Dibenz(a,h)anthracene	200 ug/mL
							Fluoranthene	200 ug/mL
							Fluorene	200 ug/mL
							Indeno[1,2,3-cd]pyrene	200 ug/mL
							Naphthalene	200 ug/mL
							Phenanthrene	200 ug/mL
							Pyrene	200 ug/mL
...SMicvLs1S1_WK_00011	01/17/19	07/17/18	n/a, Lot n/a	5000 uL	SMicvLs1S1_ST_00019	5000 uL	1-Methylnaphthalene	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Anthracene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Chrysene	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Fluoranthene	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-2

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
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Naphthalene	1000 ug/mL
							Phenanthrene	1000 ug/mL
							Pyrene	1000 ug/mL
....SMicvLs1S1_ST_00019	12/31/19		RESTEK, Lot A0138890		(Purchased Reagent)		1-Methylnaphthalene	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Anthracene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Chrysene	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Naphthalene	1000 ug/mL
							Phenanthrene	1000 ug/mL
							Pyrene	1000 ug/mL
Smlst1_5uLL1_00043	09/30/18	07/18/18	Methylene Chloride, Lot 200432	500 uL	SM_HIVOLISTD_00219	5 uL	1,4-Dichlorobenzene-d4	3.2 ug/mL
							Acenaphthene-d10	3.2 ug/mL
							Chrysene-d12	3.2 ug/mL
							Naphthalene-d8	3.2 ug/mL
							Perylene-d12	3.2 ug/mL
							Phenanthrene-d10	3.2 ug/mL
					SMLST_1_3WK5_00006	20 uL	Benzo[a]anthracene	0.04 ug/mL
							Benzo[a]pyrene	0.04 ug/mL
							Benzo[b]fluoranthene	0.04 ug/mL
							Benzo[k]fluoranthene	0.04 ug/mL
							Chrysene	0.04 ug/mL
							Dibenz(a,h)anthracene	0.04 ug/mL
							Indeno[1,2,3-cd]pyrene	0.04 ug/mL
.SM_HIVOLISTD_00219	01/11/19	07/11/18	Methylene Chloride, Lot 200432	4000 uL	SMISTDWORK_00367	1600 uL	1,4-Dichlorobenzene-d4	320 ug/mL
							Acenaphthene-d10	320 ug/mL
							Chrysene-d12	320 ug/mL
							Naphthalene-d8	320 ug/mL
							Perylene-d12	320 ug/mL
							Phenanthrene-d10	320 ug/mL
..SMISTDWORK_00367	01/11/19	07/11/18	Methylene Chloride, Lot 200432	4000 uL	SMISTD_WK_00046	1600 ug/Wipe	1,4-Dichlorobenzene-d4	800 ug/mL
							Acenaphthene-d10	800 ug/mL
							Chrysene-d12	800 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-2

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Naphthalene-d8	800 ug/mL
							Perylene-d12	800 ug/mL
							Phenanthrene-d10	800 ug/mL
...SMISTD_WK_00046	07/11/19	07/11/18	n/a, Lot n/a	5000 uL	SMISTD_ST_00015	5000 uL	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
....SMISTD_ST_00015	08/31/22		RESTEK, Lot A0129635			(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
.SMLST_1_3WK5_00006	09/30/18	07/17/18	Methylene Chloride, Lot 200432	1000 uL	SMLST1_5UL3WK_00006	250 uL	Benzo[a]anthracene	1 ug/mL
							Benzo[a]pyrene	1 ug/mL
							Benzo[b]fluoranthene	1 ug/mL
							Benzo[k]fluoranthene	1 ug/mL
							Chrysene	1 ug/mL
							Dibenz(a,h)anthracene	1 ug/mL
							Indeno[1,2,3-cd]pyrene	1 ug/mL
..SMLST1_5UL3WK_00006	09/30/18	07/17/18	Methylene Chloride, Lot 200432	1000 uL	SMLST_1_3W5uL_00010	100 uL	Benzo[a]anthracene	4 ug/mL
							Benzo[a]pyrene	4 ug/mL
							Benzo[b]fluoranthene	4 ug/mL
							Benzo[k]fluoranthene	4 ug/mL
							Chrysene	4 ug/mL
							Dibenz(a,h)anthracene	4 ug/mL
							Indeno[1,2,3-cd]pyrene	4 ug/mL
...SMLST_1_3W5uL_00010	09/30/18	07/16/18	Methylene Chloride, Lot 200432	1000 uL	SMLST_1_3W200_00004	200 uL	Benzo[a]anthracene	40 ug/mL
							Benzo[a]pyrene	40 ug/mL
							Benzo[b]fluoranthene	40 ug/mL
							Benzo[k]fluoranthene	40 ug/mL
							Chrysene	40 ug/mL
							Dibenz(a,h)anthracene	40 ug/mL
							Indeno[1,2,3-cd]pyrene	40 ug/mL
....SMLST_1_3W200_00004	09/30/18	06/06/18	Methylene Chloride, Lot 198794	1000 uL	SMcaLs1S1_WK_00010	200 uL	Benzo[a]anthracene	200 ug/mL
							Benzo[a]pyrene	200 ug/mL
							Benzo[b]fluoranthene	200 ug/mL
							Benzo[k]fluoranthene	200 ug/mL
							Chrysene	200 ug/mL
							Dibenz(a,h)anthracene	200 ug/mL
							Indeno[1,2,3-cd]pyrene	200 ug/mL
.....SMcaLs1S1_WK_00010	09/30/18	12/29/17	n/a, Lot n/a	5000 uL	SMcaLs1S1_ST_00008	5000 uL	Benzo[a]anthracene	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-2

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Chrysene	1000 ug/mL
							Dibenz (a,h)anthracene	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
.....SMcaLs1S1_ST_00008	09/30/18		RESTEK, Lot A0125805		(Purchased Reagent)		Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Chrysene	1000 ug/mL
							Dibenz (a,h)anthracene	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
SMLst1_5uLL10_00042	09/30/18	07/18/18	Methylene Chloride, Lot 200432	500 uL	SM_HIVOLISTD_00219	5 uL	1,4-Dichlorobenzene-d4	3.2 ug/mL
							Acenaphthene-d10	3.2 ug/mL
							Chrysene-d12	3.2 ug/mL
							Naphthalene-d8	3.2 ug/mL
							Perylene-d12	3.2 ug/mL
							Phenanthrene-d10	3.2 ug/mL
					SMLST_1_3W5uL_00010	150 uL	1,1'-Biphenyl	12 ug/mL
							1,2,4,5-Tetrachlorobenzene	12 ug/mL
							1,2,4-Trichlorobenzene	12 ug/mL
							1,2-Dichlorobenzene	12 ug/mL
							1,2-Diphenylhydrazine	12 ug/mL
							1,3-Dichlorobenzene	12 ug/mL
							1,3-Dinitrobenzene	12 ug/mL
							1,4-Dichlorobenzene	12 ug/mL
							1,4-Dioxane	12 ug/mL
							1-Methylnaphthalene	12 ug/mL
							2,2'-oxybis[1-chloropropane]	12 ug/mL
							2,3,4,6-Tetrachlorophenol	12 ug/mL
							2,4,5-Trichlorophenol	12 ug/mL
							2,4,6-Trichlorophenol	12 ug/mL
							2,4-Dichlorophenol	12 ug/mL
							2,4-Dimethylphenol	12 ug/mL
							2,4-Dinitrophenol	24 ug/mL
							2,4-Dinitrotoluene	12 ug/mL
							2,6-Dichlorophenol	12 ug/mL
							2,6-Dinitrotoluene	12 ug/mL
							2-Chloronaphthalene	12 ug/mL
							2-Chlorophenol	12 ug/mL
							2-Methylnaphthalene	12 ug/mL
							2-Methylphenol	12 ug/mL
							2-Nitroaniline	12 ug/mL
							2-Nitrophenol	12 ug/mL
							3 & 4 Methylphenol	12 ug/mL
							3-Nitroaniline	12 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-2

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	24 ug/mL
							4-Bromophenyl phenyl ether	12 ug/mL
							4-Chloro-3-methylphenol	12 ug/mL
							4-Chloroaniline	12 ug/mL
							4-Chlorophenyl phenyl ether	12 ug/mL
							4-Nitroaniline	12 ug/mL
							4-Nitrophenol	24 ug/mL
							Acenaphthene	12 ug/mL
							Acenaphthylene	12 ug/mL
							Acetophenone	12 ug/mL
							Aniline	12 ug/mL
							Anthracene	12 ug/mL
							Benzo[a]anthracene	12 ug/mL
							Benzo[a]pyrene	12 ug/mL
							Benzo[b]fluoranthene	12 ug/mL
							Benzo[g,h,i]perylene	12 ug/mL
							Benzo[k]fluoranthene	12 ug/mL
							Benzyl alcohol	12 ug/mL
							Bis (2-chloroethoxy)methane	12 ug/mL
							Bis (2-chloroethyl) ether	12 ug/mL
							Bis (2-ethylhexyl) phthalate	12 ug/mL
							Butyl benzyl phthalate	12 ug/mL
							Carbazole	12 ug/mL
							Chrysene	12 ug/mL
							Di-n-butyl phthalate	12 ug/mL
							Di-n-octyl phthalate	12 ug/mL
							Dibenz (a,h) anthracene	12 ug/mL
							Dibenzofuran	12 ug/mL
							Diethyl phthalate	12 ug/mL
							Dimethyl phthalate	12 ug/mL
							Diphenylamine	10.2 ug/mL
							Fluoranthene	12 ug/mL
							Fluorene	12 ug/mL
							Hexachlorobenzene	12 ug/mL
							Hexachlorobutadiene	12 ug/mL
							Hexachlorocyclopentadiene	12 ug/mL
							Hexachloroethane	12 ug/mL
							Hexadecane	12 ug/mL
							Indeno[1,2,3-cd]pyrene	12 ug/mL
							Isophorone	12 ug/mL
							n-Decane	12 ug/mL
							N-Nitrosodi-n-propylamine	12 ug/mL
							N-Nitrosodimethylamine	12 ug/mL
							N-Nitrosodiphenylamine	12 ug/mL
							n-Octadecane	12 ug/mL
							Naphthalene	12 ug/mL
							Nitrobenzene	12 ug/mL
							Pentachlorophenol	24 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-2

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Phenanthrene	12 ug/mL
							Phenol	12 ug/mL
							Pyrene	12 ug/mL
							Pyridine	24 ug/mL
							Benzoic acid	24 ug/mL
							Indene	24 ug/mL
							3,3'-Dichlorobenzidine	12 ug/mL
							Benzidine	12 ug/mL
					SMSURR5uLWKG_00078	150 uL	2,4,6-Tribromophenol	12 ug/mL
							2-Fluorobiphenyl (Surr)	12 ug/mL
							2-Fluorophenol	12 ug/mL
							Nitrobenzene-d5 (Surr)	12 ug/mL
							Phenol-d5	12 ug/mL
							Terphenyl-d14 (Surr)	12 ug/mL
.SM_HIVOLISTD_00219	01/11/19	07/11/18	Methylene Chloride, Lot 200432	4000 uL	SMISTDWORK_00367	1600 uL	1,4-Dichlorobenzene-d4	320 ug/mL
							Acenaphthene-d10	320 ug/mL
							Chrysene-d12	320 ug/mL
							Naphthalene-d8	320 ug/mL
							Perylene-d12	320 ug/mL
							Phenanthrene-d10	320 ug/mL
..SMISTDWORK_00367	01/11/19	07/11/18	Methylene Chloride, Lot 200432	4000 uL	SMISTD_WK_00046	1600 ug/Wipe	1,4-Dichlorobenzene-d4	800 ug/mL
							Acenaphthene-d10	800 ug/mL
							Chrysene-d12	800 ug/mL
							Naphthalene-d8	800 ug/mL
							Perylene-d12	800 ug/mL
							Phenanthrene-d10	800 ug/mL
...SMISTD_WK_00046	07/11/19	07/11/18	n/a, Lot n/a	5000 uL	SMISTD_ST_00015	5000 uL	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
....SMISTD_ST_00015	08/31/22		RESTEK, Lot A0129635			(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
.SMLST_1_3W5uL_00010	09/30/18	07/16/18	Methylene Chloride, Lot 200432	1000 uL	SMLST_1_3W200_00004	200 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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-2

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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 & 4 Methylphenol	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-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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-2

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dibenzofuran	40 ug/mL
							Diethyl phthalate	40 ug/mL
							Dimethyl phthalate	40 ug/mL
							Diphenylamine	34 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	40 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	80 ug/mL
							Benzoic acid	80 ug/mL
							Indene	80 ug/mL
							3,3'-Dichlorobenzidine	40 ug/mL
							Benizidine	40 ug/mL
..SMLST_1_3W200_00004	09/30/18	06/06/18	Methylene Chloride, Lot 198794	1000 uL	SMcaLs1S1_WK_00010	200 uL	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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-2

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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-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
							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
							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
							Diphenylamine	170 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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-2

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Indeno[1,2,3-cd]pyrene	200 ug/mL
							Isophorone	200 ug/mL
							n-Decane	200 ug/mL
							N-Nitrosodi-n-propylamine	200 ug/mL
							N-Nitrosodimethylamine	200 ug/mL
							N-Nitrosodiphenylamine	200 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	400 ug/mL
					SMcaLs1S10_WK_00005	200 uL	Benzoic acid	400 ug/mL
							Indene	400 ug/mL
					SMcaLs1S9_WK_00007	100 uL	3,3'-Dichlorobenzidine	200 ug/mL
							Benzidine	200 ug/mL
...SMcaLs1S1_WK_00010	09/30/18	12/29/17	n/a, Lot n/a	5000 uL	SMcaLs1S1_ST_00008	5000 uL	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 & 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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-2

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	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							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
							Diphenylamine	850 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	1000 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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-2

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Pyrene	1000 ug/mL
							Pyridine	2000 ug/mL
....SMcaLs1S1_ST_00008	09/30/18		RESTEK, Lot A0125805			(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 & 4 Methylphenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-2

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Bis (2-chloroethoxy)methane	1000 ug/mL
							Bis (2-chloroethyl) ether	1000 ug/mL
							Bis (2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz (a,h) anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Diphenylamine	850 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	1000 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	2000 ug/mL
...SMcaLs1S10_WK_00005	09/30/18	12/29/17	na, Lot na	5000 uL	SMcaLs1S10_ST_00005	5000 uL	Benzoic acid	2000 ug/mL
							Indene	2000 ug/mL
...SMcaLs1S10_ST_00005	03/31/19		RESTEK, Lot A0130477			(Purchased Reagent)	Benzoic acid	2000 ug/mL
							Indene	2000 ug/mL
...SMcaLs1S9_WK_00007	09/30/18	12/29/17	Methylene Chloride, Lot na	5000 uL	SMcaLs1S9_ST_00005	5000 uL	3,3'-Dichlorobenzidine	2000 ug/mL
							Benzidine	2000 ug/mL
...SMcaLs1S9_ST_00005	11/30/18		RESTEK, Lot A0127472			(Purchased Reagent)	3,3'-Dichlorobenzidine	2000 ug/mL
							Benzidine	2000 ug/mL
.SMSURR5uLWKG_00078	09/30/18	07/16/18	Methylene Chloride, Lot 200432	1000 uL	SMSURRWORK_00121	200 uL	2,4,6-Tribromophenol	40 ug/mL
							2-Fluorobiphenyl (Surr)	40 ug/mL
							2-Fluorophenol	40 ug/mL
							Nitrobenzene-d5 (Surr)	40 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-2

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration		
					Reagent ID	Volume Added				
..SMSURWORK_00121	09/30/18	06/07/18	Methylene Chloride, Lot 198794	1000 uL	SMSURROG_2WK_00032	400 uL	Phenol-d5	40 ug/mL		
							Terphenyl-d14 (Surr)	40 ug/mL		
							2,4,6-Tribromophenol	200 ug/mL		
							2-Fluorobiphenyl (Surr)	200 ug/mL		
							2-Fluorophenol	200 ug/mL		
							Nitrobenzene-d5 (Surr)	200 ug/mL		
...SMSURROG_2WK_00032	09/30/18	04/12/18	Methylene Chloride, Lot 188082	1000 uL	SMSURROGAT_WK_00009	100 uL	Phenol-d5	200 ug/mL		
							Terphenyl-d14 (Surr)	200 ug/mL		
							2,4,6-Tribromophenol	500 ug/mL		
							2-Fluorobiphenyl (Surr)	500 ug/mL		
							2-Fluorophenol	500 ug/mL		
							Nitrobenzene-d5 (Surr)	500 ug/mL		
....SMSURROGAT_WK_00009	09/30/18	12/29/17	n/a, Lot n/a	5000 uL	SMSURROGAT_ST_00011	5000 uL	Phenol-d5	500 ug/mL		
							Terphenyl-d14 (Surr)	500 ug/mL		
							2,4,6-Tribromophenol	5000 ug/mL		
							2-Fluorobiphenyl (Surr)	5000 ug/mL		
							2-Fluorophenol	5000 ug/mL		
							Nitrobenzene-d5 (Surr)	5000 ug/mL		
.....SMSURROGAT_ST_00011	09/30/22	RESTEK, Lot A0130500			(Purchased Reagent)		Phenol-d5	5000 ug/mL		
							Terphenyl-d14 (Surr)	5000 ug/mL		
							2,4,6-Tribromophenol	5000 ug/mL		
							2-Fluorobiphenyl (Surr)	5000 ug/mL		
							2-Fluorophenol	5000 ug/mL		
							Nitrobenzene-d5 (Surr)	5000 ug/mL		
SMLst1_5uLL11_00042	09/30/18	07/18/18	Methylene Chloride, Lot 200432	500 uL	SM_HIVOLISTD_00219	5 uL	1,4-Dichlorobenzene-d4	3.2 ug/mL		
							Acenaphthene-d10	3.2 ug/mL		
							Chrysene-d12	3.2 ug/mL		
							Naphthalene-d8	3.2 ug/mL		
							Perylene-d12	3.2 ug/mL		
							Phenanthrene-d10	3.2 ug/mL		
							SMLST_1_3W5uL_00010	175 uL	1,1'-Biphenyl	14 ug/mL
									1,2,4,5-Tetrachlorobenzene	14 ug/mL
									1,2,4-Trichlorobenzene	14 ug/mL
				1,2-Dichlorobenzene	14 ug/mL					
				1,2-Diphenylhydrazine	14 ug/mL					
				1,3-Dichlorobenzene	14 ug/mL					
				1,3-Dinitrobenzene	14 ug/mL					
				1,4-Dichlorobenzene	14 ug/mL					
				1,4-Dioxane	14 ug/mL					
				1-Methylnaphthalene	14 ug/mL					
				2,2'-oxybis[1-chloropropane]	14 ug/mL					
				2,3,4,6-Tetrachlorophenol	14 ug/mL					
2,4,5-Trichlorophenol	14 ug/mL									

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-2

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	14 ug/mL
							2,4-Dichlorophenol	14 ug/mL
							2,4-Dimethylphenol	14 ug/mL
							2,4-Dinitrophenol	28 ug/mL
							2,4-Dinitrotoluene	14 ug/mL
							2,6-Dichlorophenol	14 ug/mL
							2,6-Dinitrotoluene	14 ug/mL
							2-Chloronaphthalene	14 ug/mL
							2-Chlorophenol	14 ug/mL
							2-Methylnaphthalene	14 ug/mL
							2-Methylphenol	14 ug/mL
							2-Nitroaniline	14 ug/mL
							2-Nitrophenol	14 ug/mL
							3 & 4 Methylphenol	14 ug/mL
							3-Nitroaniline	14 ug/mL
							4,6-Dinitro-2-methylphenol	28 ug/mL
							4-Bromophenyl phenyl ether	14 ug/mL
							4-Chloro-3-methylphenol	14 ug/mL
							4-Chloroaniline	14 ug/mL
							4-Chlorophenyl phenyl ether	14 ug/mL
							4-Nitroaniline	14 ug/mL
							4-Nitrophenol	28 ug/mL
							Acenaphthene	14 ug/mL
							Acenaphthylene	14 ug/mL
							Acetophenone	14 ug/mL
							Aniline	14 ug/mL
							Anthracene	14 ug/mL
							Benzo[a]anthracene	14 ug/mL
							Benzo[a]pyrene	14 ug/mL
							Benzo[b]fluoranthene	14 ug/mL
							Benzo[g,h,i]perylene	14 ug/mL
							Benzo[k]fluoranthene	14 ug/mL
							Benzyl alcohol	14 ug/mL
							Bis (2-chloroethoxy)methane	14 ug/mL
							Bis (2-chloroethyl) ether	14 ug/mL
							Bis (2-ethylhexyl) phthalate	14 ug/mL
							Butyl benzyl phthalate	14 ug/mL
							Carbazole	14 ug/mL
							Chrysene	14 ug/mL
							Di-n-butyl phthalate	14 ug/mL
							Di-n-octyl phthalate	14 ug/mL
							Dibenz (a,h) anthracene	14 ug/mL
							Dibenzofuran	14 ug/mL
							Diethyl phthalate	14 ug/mL
							Dimethyl phthalate	14 ug/mL
							Diphenylamine	11.9 ug/mL
							Fluoranthene	14 ug/mL
							Fluorene	14 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-2

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Hexachlorobenzene	14 ug/mL
							Hexachlorobutadiene	14 ug/mL
							Hexachlorocyclopentadiene	14 ug/mL
							Hexachloroethane	14 ug/mL
							Hexadecane	14 ug/mL
							Indeno[1,2,3-cd]pyrene	14 ug/mL
							Isophorone	14 ug/mL
							n-Decane	14 ug/mL
							N-Nitrosodi-n-propylamine	14 ug/mL
							N-Nitrosodimethylamine	14 ug/mL
							N-Nitrosodiphenylamine	14 ug/mL
							n-Octadecane	14 ug/mL
							Naphthalene	14 ug/mL
							Nitrobenzene	14 ug/mL
							Pentachlorophenol	28 ug/mL
							Phenanthrene	14 ug/mL
							Phenol	14 ug/mL
							Pyrene	14 ug/mL
							Pyridine	28 ug/mL
							Benzoic acid	28 ug/mL
							Indene	28 ug/mL
							3,3'-Dichlorobenzidine	14 ug/mL
							Benzidine	14 ug/mL
					SMSURR5uLWKG_00078	175 uL	2,4,6-Tribromophenol	14 ug/mL
							2-Fluorobiphenyl (Surr)	14 ug/mL
							2-Fluorophenol	14 ug/mL
							Nitrobenzene-d5 (Surr)	14 ug/mL
							Phenol-d5	14 ug/mL
							Terphenyl-d14 (Surr)	14 ug/mL
.SM_HIVOLISTD_00219	01/11/19	07/11/18	Methylene Chloride, Lot 200432	4000 uL	SMISTDWORK_00367	1600 uL	1,4-Dichlorobenzene-d4	320 ug/mL
							Acenaphthene-d10	320 ug/mL
							Chrysene-d12	320 ug/mL
							Naphthalene-d8	320 ug/mL
							Perylene-d12	320 ug/mL
							Phenanthrene-d10	320 ug/mL
..SMISTDWORK_00367	01/11/19	07/11/18	Methylene Chloride, Lot 200432	4000 uL	SMISTD_WK_00046	1600 ug/Wipe	1,4-Dichlorobenzene-d4	800 ug/mL
							Acenaphthene-d10	800 ug/mL
							Chrysene-d12	800 ug/mL
							Naphthalene-d8	800 ug/mL
							Perylene-d12	800 ug/mL
							Phenanthrene-d10	800 ug/mL
...SMISTD_WK_00046	07/11/19	07/11/18	n/a, Lot n/a	5000 uL	SMISTD_ST_00015	5000 uL	1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-2

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
....SMISTD_ST_00015	08/31/22		RESTEK, Lot A0129635			(Purchased Reagent)	Phenanthrene-d10	2000 ug/mL
							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
.SMLST_1_3W5uL_00010	09/30/18	07/16/18	Methylene Chloride, Lot 200432	1000 uL	SMLST_1_3W200_00004	200 uL	Phenanthrene-d10	2000 ug/mL
							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 & 4 Methylphenol	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-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							

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-2

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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
							Diphenylamine	34 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	40 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	80 ug/mL
							Benzoic acid	80 ug/mL
							Indene	80 ug/mL
							3,3'-Dichlorobenzidine	40 ug/mL
							Benzenidine	40 ug/mL
..SMLST_1_3W200_00004	09/30/18	06/06/18	Methylene Chloride, Lot 198794	1000 uL	SMcaLs1S1_WK_00010	200 uL	1,1'-Biphenyl	200 ug/mL
							1,2,4,5-Tetrachlorobenzene	200 ug/mL
							1,2,4-Trichlorobenzene	200 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-2

SDG No.: _____

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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-2

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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
							Diphenylamine	170 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
							n-Decane	200 ug/mL
							N-Nitrosodi-n-propylamine	200 ug/mL
							N-Nitrosodimethylamine	200 ug/mL
							N-Nitrosodiphenylamine	200 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	400 ug/mL
					SMcaLs1S10_WK_00005	200 uL	Benzoic acid	400 ug/mL
							Indene	400 ug/mL
					SMcaLs1S9_WK_00007	100 uL	3,3'-Dichlorobenzidine	200 ug/mL
							Benzenidine	200 ug/mL
...SMcaLs1S1_WK_00010	09/30/18	12/29/17	n/a, Lot n/a	5000 uL	SMcaLs1S1_ST_00008	5000 uL	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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-2

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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-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
							Diphenylamine	850 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-2

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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	1000 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	2000 ug/mL
....SMcaIs1S1_ST_00008	09/30/18		RESTEK, Lot A0125805		(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 & 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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-2

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-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
							Diphenylamine	850 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	1000 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 Chicago

Job No.: 500-150867-2

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
...SMcaLs1S10_WK_00005	09/30/18	12/29/17	na, Lot na	5000 uL	SMcaLs1S10_ST_00005	5000 uL	Pyridine	2000 ug/mL
....SMcaLs1S10_ST_00005	03/31/19	RESTEK, Lot A0130477			(Purchased Reagent)		Benzoic acid	2000 ug/mL
...SMcaLs1S9_WK_00007	09/30/18	12/29/17	Methylene Chloride, Lot na	5000 uL	SMcaLs1S9_ST_00005	5000 uL	Indene	2000 ug/mL
....SMcaLs1S9_ST_00005	11/30/18	RESTEK, Lot A0127472			(Purchased Reagent)		Benzoic acid	2000 ug/mL
.SMSURR5uLWKG_00078	09/30/18	07/16/18	Methylene Chloride, Lot 200432	1000 uL	SMSURRWORK_00121	200 uL	Indene	2000 ug/mL
..SMSURRWORK_00121	09/30/18	06/07/18	Methylene Chloride, Lot 198794	1000 uL	SMSURROG_2WK_00032	400 uL	3,3'-Dichlorobenzidine	2000 ug/mL
...SMSURROG_2WK_00032	09/30/18	04/12/18	Methylene Chloride, Lot 188082	1000 uL	SMSURROGAT_WK_00009	100 uL	Benzendine	2000 ug/mL
....SMSURROGAT_WK_00009	09/30/18	12/29/17	n/a, Lot n/a	5000 uL	SMSURROGAT_ST_00011	5000 uL	2,4,6-Tribromophenol	40 ug/mL
.....SMSURROGAT_ST_00011	09/30/22	RESTEK, Lot A0130500			(Purchased Reagent)		2-Fluorobiphenyl (Surr)	40 ug/mL
SM1st1_5uLL2_00042	09/30/18	07/18/18	Methylene Chloride, Lot 200432	500 uL	SM_HIVOLISTD_00219	5 uL	2-Fluorophenol	40 ug/mL
							Nitrobenzene-d5 (Surr)	40 ug/mL
							Phenol-d5	40 ug/mL
							Terphenyl-d14 (Surr)	40 ug/mL
							2,4,6-Tribromophenol	40 ug/mL
							2-Fluorobiphenyl (Surr)	40 ug/mL
							2-Fluorophenol	40 ug/mL
							Nitrobenzene-d5 (Surr)	40 ug/mL
							Phenol-d5	40 ug/mL
							Terphenyl-d14 (Surr)	40 ug/mL
							1,4-Dichlorobenzene-d4	3.2 ug/mL
							Acenaphthene-d10	3.2 ug/mL
							Chrysene-d12	3.2 ug/mL
							Naphthalene-d8	3.2 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-2

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					SMLST_1_3WK5_00006	50 uL	Perylene-d12	3.2 ug/mL
							Phenanthrene-d10	3.2 ug/mL
							2,6-Dinitrotoluene	0.1 ug/mL
							2-Methylnaphthalene	0.1 ug/mL
							Benzo[a]anthracene	0.1 ug/mL
							Benzo[a]pyrene	0.1 ug/mL
							Benzo[b]fluoranthene	0.1 ug/mL
							Benzo[k]fluoranthene	0.1 ug/mL
							Chrysene	0.1 ug/mL
							Dibenz(a,h)anthracene	0.1 ug/mL
							Hexachlorobenzene	0.1 ug/mL
Indeno[1,2,3-cd]pyrene	0.1 ug/mL							
N-Nitrosodi-n-propylamine	0.1 ug/mL							
.SM_HIVOLISTD_00219	01/11/19	07/11/18	Methylene Chloride, Lot 200432	4000 uL	SMISTDWORK_00367	1600 uL	1,4-Dichlorobenzene-d4	320 ug/mL
							Acenaphthene-d10	320 ug/mL
							Chrysene-d12	320 ug/mL
							Naphthalene-d8	320 ug/mL
							Perylene-d12	320 ug/mL
							Phenanthrene-d10	320 ug/mL
..SMISTDWORK_00367	01/11/19	07/11/18	Methylene Chloride, Lot 200432	4000 uL	SMISTD_WK_00046	1600 ug/Wipe	1,4-Dichlorobenzene-d4	800 ug/mL
							Acenaphthene-d10	800 ug/mL
							Chrysene-d12	800 ug/mL
							Naphthalene-d8	800 ug/mL
							Perylene-d12	800 ug/mL
							Phenanthrene-d10	800 ug/mL
...SMISTD_WK_00046	07/11/19	07/11/18	n/a, Lot n/a	5000 uL	SMISTD_ST_00015	5000 uL	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
....SMISTD_ST_00015	08/31/22		RESTEK, Lot A0129635			(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
.SMLST_1_3WK5_00006	09/30/18	07/17/18	Methylene Chloride, Lot 200432	1000 uL	SMLST1_5UL3WK_00006	250 uL	2,6-Dinitrotoluene	1 ug/mL
							2-Methylnaphthalene	1 ug/mL
							Benzo[a]anthracene	1 ug/mL
							Benzo[a]pyrene	1 ug/mL
							Benzo[b]fluoranthene	1 ug/mL
							Benzo[k]fluoranthene	1 ug/mL
							Chrysene	1 ug/mL
Dibenz(a,h)anthracene	1 ug/mL							

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-2

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration							
					Reagent ID	Volume Added									
..SMLST1_5UL3WK_00006	09/30/18	07/17/18	Methylene Chloride, Lot 200432	1000 uL	SMLST_1_3W5uL_00010	100 uL	Hexachlorobenzene	1 ug/mL							
							Indeno[1,2,3-cd]pyrene	1 ug/mL							
							N-Nitrosodi-n-propylamine	1 ug/mL							
							2,6-Dinitrotoluene	4 ug/mL							
							2-Methylnaphthalene	4 ug/mL							
							Benzo[a]anthracene	4 ug/mL							
							Benzo[a]pyrene	4 ug/mL							
							Benzo[b]fluoranthene	4 ug/mL							
							Benzo[k]fluoranthene	4 ug/mL							
							Chrysene	4 ug/mL							
							Dibenz(a,h)anthracene	4 ug/mL							
							Hexachlorobenzene	4 ug/mL							
							Indeno[1,2,3-cd]pyrene	4 ug/mL							
N-Nitrosodi-n-propylamine	4 ug/mL														
...SMLST_1_3W5uL_00010	09/30/18	07/16/18	Methylene Chloride, Lot 200432	1000 uL	SMLST_1_3W200_00004	200 uL	2,6-Dinitrotoluene	40 ug/mL							
							2-Methylnaphthalene	40 ug/mL							
							Benzo[a]anthracene	40 ug/mL							
							Benzo[a]pyrene	40 ug/mL							
							Benzo[b]fluoranthene	40 ug/mL							
							Benzo[k]fluoranthene	40 ug/mL							
							Chrysene	40 ug/mL							
							Dibenz(a,h)anthracene	40 ug/mL							
							Hexachlorobenzene	40 ug/mL							
							Indeno[1,2,3-cd]pyrene	40 ug/mL							
							N-Nitrosodi-n-propylamine	40 ug/mL							
						SMLST_1_3W200_00004	09/30/18	06/06/18	Methylene Chloride, Lot 198794	1000 uL	SMcaLs1S1_WK_00010	200 uL	2,6-Dinitrotoluene	200 ug/mL
														2-Methylnaphthalene	200 ug/mL
Benzo[a]anthracene	200 ug/mL														
Benzo[a]pyrene	200 ug/mL														
Benzo[b]fluoranthene	200 ug/mL														
Benzo[k]fluoranthene	200 ug/mL														
Chrysene	200 ug/mL														
Dibenz(a,h)anthracene	200 ug/mL														
Hexachlorobenzene	200 ug/mL														
Indeno[1,2,3-cd]pyrene	200 ug/mL														
N-Nitrosodi-n-propylamine	200 ug/mL														
.....SMcaLs1S1_WK_00010	09/30/18	12/29/17	n/a, Lot n/a	5000 uL	SMcaLs1S1_ST_00008	5000 uL								2,6-Dinitrotoluene	1000 ug/mL
														2-Methylnaphthalene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL							
							Benzo[a]pyrene	1000 ug/mL							
							Benzo[b]fluoranthene	1000 ug/mL							
							Benzo[k]fluoranthene	1000 ug/mL							
							Chrysene	1000 ug/mL							
							Dibenz(a,h)anthracene	1000 ug/mL							
							Hexachlorobenzene	1000 ug/mL							

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-2

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration		
					Reagent ID	Volume Added				
.....SMcaLs1S1_ST_00008	09/30/18		RESTEK, Lot A0125805			(Purchased Reagent)	Indeno[1,2,3-cd]pyrene	1000 ug/mL		
							N-Nitrosodi-n-propylamine	1000 ug/mL		
							2,6-Dinitrotoluene	1000 ug/mL		
							2-Methylnaphthalene	1000 ug/mL		
							Benzo[a]anthracene	1000 ug/mL		
							Benzo[a]pyrene	1000 ug/mL		
							Benzo[b]fluoranthene	1000 ug/mL		
							Benzo[k]fluoranthene	1000 ug/mL		
							Chrysene	1000 ug/mL		
							Dibenz(a,h)anthracene	1000 ug/mL		
							Hexachlorobenzene	1000 ug/mL		
							Indeno[1,2,3-cd]pyrene	1000 ug/mL		
N-Nitrosodi-n-propylamine	1000 ug/mL									
SMLst1_5uLL3_00042	09/30/18	07/18/18	Methylene Chloride, Lot 200432	500 uL	SM_HIVOLISTD_00219	5 uL	1,4-Dichlorobenzene-d4	3.2 ug/mL		
							Acenaphthene-d10	3.2 ug/mL		
							Chrysene-d12	3.2 ug/mL		
							Naphthalene-d8	3.2 ug/mL		
							Perylene-d12	3.2 ug/mL		
							Phenanthrene-d10	3.2 ug/mL		
							SMLST_1_3WK5_00006	100 uL	1-Methylnaphthalene	0.2 ug/mL
									2,4-Dinitrotoluene	0.2 ug/mL
									2,6-Dinitrotoluene	0.2 ug/mL
									2-Methylnaphthalene	0.2 ug/mL
									Acenaphthene	0.2 ug/mL
									Acenaphthylene	0.2 ug/mL
					Acetophenone	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				
					Chrysene	0.2 ug/mL				
					Dibenz(a,h)anthracene	0.2 ug/mL				
					Fluoranthene	0.2 ug/mL				
					Fluorene	0.2 ug/mL				
					Hexachlorobenzene	0.2 ug/mL				
					Indeno[1,2,3-cd]pyrene	0.2 ug/mL				
					n-Decane	0.2 ug/mL				
					N-Nitrosodi-n-propylamine	0.2 ug/mL				
					N-Nitrosodiphenylamine	0.2 ug/mL				
					Naphthalene	0.2 ug/mL				
					Nitrobenzene	0.2 ug/mL				
					Phenanthrene	0.2 ug/mL				
					Pyrene	0.2 ug/mL				
					2,4,6-Tribromophenol	0.2 ug/mL				
2-Fluorobiphenyl (Surr)	0.2 ug/mL									

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-2

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Fluorophenol	0.2 ug/mL
							Nitrobenzene-d5 (Surr)	0.2 ug/mL
							Phenol-d5	0.2 ug/mL
							Terphenyl-d14 (Surr)	0.2 ug/mL
.SM_HIVOLISTD_00219	01/11/19	07/11/18	Methylene Chloride, Lot 200432	4000 uL	SMISTDWORK_00367	1600 uL	1,4-Dichlorobenzene-d4	320 ug/mL
							Acenaphthene-d10	320 ug/mL
							Chrysene-d12	320 ug/mL
							Naphthalene-d8	320 ug/mL
							Perylene-d12	320 ug/mL
							Phenanthrene-d10	320 ug/mL
..SMISTDWORK_00367	01/11/19	07/11/18	Methylene Chloride, Lot 200432	4000 uL	SMISTD_WK_00046	1600 ug/Wipe	1,4-Dichlorobenzene-d4	800 ug/mL
							Acenaphthene-d10	800 ug/mL
							Chrysene-d12	800 ug/mL
							Naphthalene-d8	800 ug/mL
							Perylene-d12	800 ug/mL
							Phenanthrene-d10	800 ug/mL
...SMISTD_WK_00046	07/11/19	07/11/18	n/a, Lot n/a	5000 uL	SMISTD_ST_00015	5000 uL	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
....SMISTD_ST_00015	08/31/22		RESTEK, Lot A0129635			(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
.SMLST_1_3WK5_00006	09/30/18	07/17/18	Methylene Chloride, Lot 200432	1000 uL	SMLST1_5UL3WK_00006	250 uL	1-Methylnaphthalene	1 ug/mL
							2,4-Dinitrotoluene	1 ug/mL
							2,6-Dinitrotoluene	1 ug/mL
							2-Methylnaphthalene	1 ug/mL
							Acenaphthene	1 ug/mL
							Acenaphthylene	1 ug/mL
							Acetophenone	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
							Chrysene	1 ug/mL
							Dibenz(a,h)anthracene	1 ug/mL
							Fluoranthene	1 ug/mL
							Fluorene	1 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-2

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Hexachlorobenzene	1 ug/mL
							Indeno[1,2,3-cd]pyrene	1 ug/mL
							n-Decane	1 ug/mL
							N-Nitrosodi-n-propylamine	1 ug/mL
							N-Nitrosodiphenylamine	1 ug/mL
							Naphthalene	1 ug/mL
							Nitrobenzene	1 ug/mL
							Phenanthrene	1 ug/mL
							Pyrene	1 ug/mL
							2,4,6-Tribromophenol	1 ug/mL
							2-Fluorobiphenyl (Surr)	1 ug/mL
							2-Fluorophenol	1 ug/mL
							Nitrobenzene-d5 (Surr)	1 ug/mL
							Phenol-d5	1 ug/mL
							Terphenyl-d14 (Surr)	1 ug/mL
..SMLST1_5UL3WK_00006	09/30/18	07/17/18	Methylene Chloride, Lot 200432	1000 uL	SMLST_1_3W5uL_00010	100 uL	1-Methylnaphthalene	4 ug/mL
							2,4-Dinitrotoluene	4 ug/mL
							2,6-Dinitrotoluene	4 ug/mL
							2-Methylnaphthalene	4 ug/mL
							Acenaphthene	4 ug/mL
							Acenaphthylene	4 ug/mL
							Acetophenone	4 ug/mL
							Anthracene	4 ug/mL
							Benzo[a]anthracene	4 ug/mL
							Benzo[a]pyrene	4 ug/mL
							Benzo[b]fluoranthene	4 ug/mL
							Benzo[g,h,i]perylene	4 ug/mL
							Benzo[k]fluoranthene	4 ug/mL
							Chrysene	4 ug/mL
							Dibenz(a,h)anthracene	4 ug/mL
							Fluoranthene	4 ug/mL
							Fluorene	4 ug/mL
							Hexachlorobenzene	4 ug/mL
							Indeno[1,2,3-cd]pyrene	4 ug/mL
							n-Decane	4 ug/mL
							N-Nitrosodi-n-propylamine	4 ug/mL
							N-Nitrosodiphenylamine	4 ug/mL
							Naphthalene	4 ug/mL
							Nitrobenzene	4 ug/mL
							Phenanthrene	4 ug/mL
							Pyrene	4 ug/mL
					SMSURR5uLWKG_00078	100 uL	2,4,6-Tribromophenol	4 ug/mL
							2-Fluorobiphenyl (Surr)	4 ug/mL
							2-Fluorophenol	4 ug/mL
							Nitrobenzene-d5 (Surr)	4 ug/mL
							Phenol-d5	4 ug/mL
							Terphenyl-d14 (Surr)	4 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-2

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
...SMLST_1_3W5uL_00010	09/30/18	07/16/18	Methylene Chloride, Lot 200432	1000 uL	SMLST_1_3W200_00004	200 uL	1-Methylnaphthalene	40 ug/mL
							2,4-Dinitrotoluene	40 ug/mL
							2,6-Dinitrotoluene	40 ug/mL
							2-Methylnaphthalene	40 ug/mL
							Acenaphthene	40 ug/mL
							Acenaphthylene	40 ug/mL
							Acetophenone	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
							Chrysene	40 ug/mL
							Dibenz(a,h)anthracene	40 ug/mL
							Fluoranthene	40 ug/mL
							Fluorene	40 ug/mL
							Hexachlorobenzene	40 ug/mL
							Indeno[1,2,3-cd]pyrene	40 ug/mL
							n-Decane	40 ug/mL
N-Nitrosodi-n-propylamine	40 ug/mL							
N-Nitrosodiphenylamine	40 ug/mL							
Naphthalene	40 ug/mL							
Nitrobenzene	40 ug/mL							
Phenanthrene	40 ug/mL							
Pyrene	40 ug/mL							
....SMLST_1_3W200_00004	09/30/18	06/06/18	Methylene Chloride, Lot 198794	1000 uL	SMcaLs1S1_WK_00010	200 uL	1-Methylnaphthalene	200 ug/mL
							2,4-Dinitrotoluene	200 ug/mL
							2,6-Dinitrotoluene	200 ug/mL
							2-Methylnaphthalene	200 ug/mL
							Acenaphthene	200 ug/mL
							Acenaphthylene	200 ug/mL
							Acetophenone	200 ug/mL
							Anthracene	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
							Chrysene	200 ug/mL
							Dibenz(a,h)anthracene	200 ug/mL
							Fluoranthene	200 ug/mL
							Fluorene	200 ug/mL
							Hexachlorobenzene	200 ug/mL
							Indeno[1,2,3-cd]pyrene	200 ug/mL
							n-Decane	200 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-2

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							N-Nitrosodi-n-propylamine	200 ug/mL
							N-Nitrosodiphenylamine	200 ug/mL
							Naphthalene	200 ug/mL
							Nitrobenzene	200 ug/mL
							Phenanthrene	200 ug/mL
							Pyrene	200 ug/mL
.....SMcaLs1S1_WK_00010	09/30/18	12/29/17	n/a, Lot n/a	5000 uL	SMcaLs1S1_ST_00008	5000 uL	1-Methylnaphthalene	1000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	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
							Chrysene	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							n-Decane	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodiphenylamine	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Phenanthrene	1000 ug/mL
							Pyrene	1000 ug/mL
.....SMcaLs1S1_ST_00008	09/30/18		RESTEK, Lot A0125805		(Purchased Reagent)		1-Methylnaphthalene	1000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	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
							Chrysene	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Fluoranthene	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-2

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
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							n-Decane	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodiphenylamine	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Phenanthrene	1000 ug/mL
							Pyrene	1000 ug/mL
...SMSURR5uLWKG_00078	09/30/18	07/16/18	Methylene Chloride, Lot 200432	1000 uL	SMSURRWORK_00121	200 uL	2,4,6-Tribromophenol	40 ug/mL
							2-Fluorobiphenyl (Surr)	40 ug/mL
							2-Fluorophenol	40 ug/mL
							Nitrobenzene-d5 (Surr)	40 ug/mL
							Phenol-d5	40 ug/mL
							Terphenyl-d14 (Surr)	40 ug/mL
....SMSURRWORK_00121	09/30/18	06/07/18	Methylene Chloride, Lot 198794	1000 uL	SMSURROG_2WK_00032	400 uL	2,4,6-Tribromophenol	200 ug/mL
							2-Fluorobiphenyl (Surr)	200 ug/mL
							2-Fluorophenol	200 ug/mL
							Nitrobenzene-d5 (Surr)	200 ug/mL
							Phenol-d5	200 ug/mL
							Terphenyl-d14 (Surr)	200 ug/mL
.....SMSURROG_2WK_00032	09/30/18	04/12/18	Methylene Chloride, Lot 188082	1000 uL	SMSURROGAT_WK_00009	100 uL	2,4,6-Tribromophenol	500 ug/mL
							2-Fluorobiphenyl (Surr)	500 ug/mL
							2-Fluorophenol	500 ug/mL
							Nitrobenzene-d5 (Surr)	500 ug/mL
							Phenol-d5	500 ug/mL
							Terphenyl-d14 (Surr)	500 ug/mL
.....SMSURROGAT_WK_00009	09/30/18	12/29/17	n/a, Lot n/a	5000 uL	SMSURROGAT_ST_00011	5000 uL	2,4,6-Tribromophenol	5000 ug/mL
							2-Fluorobiphenyl (Surr)	5000 ug/mL
							2-Fluorophenol	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL
.....SMSURROGAT_ST_00011	09/30/22		RESTEK, Lot A0130500		(Purchased Reagent)		2,4,6-Tribromophenol	5000 ug/mL
							2-Fluorobiphenyl (Surr)	5000 ug/mL
							2-Fluorophenol	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL
SM1st1_5uL4_00044	09/30/18	07/18/18	Methylene Chloride, Lot 200432	500 uL	SM_HIVOLISTD_00219	5 uL	1,4-Dichlorobenzene-d4	3.2 ug/mL
							Acenaphthene-d10	3.2 ug/mL
							Chrysene-d12	3.2 ug/mL
							Naphthalene-d8	3.2 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-2

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Perylene-d12	3.2 ug/mL
							Phenanthrene-d10	3.2 ug/mL
					SMLST_1_3WK5_00006	200 uL	1,2,4-Trichlorobenzene	0.4 ug/mL
							1,2-Dichlorobenzene	0.4 ug/mL
							1,3-Dichlorobenzene	0.4 ug/mL
							1,4-Dichlorobenzene	0.4 ug/mL
							1-Methylnaphthalene	0.4 ug/mL
							2,2'-oxybis[1-chloropropane]	0.4 ug/mL
							2,4-Dinitrotoluene	0.4 ug/mL
							2,6-Dinitrotoluene	0.4 ug/mL
							2-Chloronaphthalene	0.4 ug/mL
							2-Methylnaphthalene	0.4 ug/mL
							2-Methylphenol	0.4 ug/mL
							3 & 4 Methylphenol	0.4 ug/mL
							Acenaphthene	0.4 ug/mL
							Acenaphthylene	0.4 ug/mL
							Acetophenone	0.4 ug/mL
							Anthracene	0.4 ug/mL
							Benzo[a]anthracene	0.4 ug/mL
							Benzo[a]pyrene	0.4 ug/mL
							Benzo[b]fluoranthene	0.4 ug/mL
							Benzo[g,h,i]perylene	0.4 ug/mL
							Benzo[k]fluoranthene	0.4 ug/mL
							Bis(2-chloroethoxy)methane	0.4 ug/mL
							Bis(2-chloroethyl) ether	0.4 ug/mL
							Bis(2-ethylhexyl) phthalate	0.4 ug/mL
							Butyl benzyl phthalate	0.4 ug/mL
							Carbazole	0.4 ug/mL
							Chrysene	0.4 ug/mL
							Di-n-butyl phthalate	0.4 ug/mL
							Dibenz(a,h)anthracene	0.4 ug/mL
							Dibenzofuran	0.4 ug/mL
							Diethyl phthalate	0.4 ug/mL
							Dimethyl phthalate	0.4 ug/mL
							Fluoranthene	0.4 ug/mL
							Fluorene	0.4 ug/mL
							Hexachlorobenzene	0.4 ug/mL
							Hexachlorobutadiene	0.4 ug/mL
							Indeno[1,2,3-cd]pyrene	0.4 ug/mL
							Isophorone	0.4 ug/mL
							n-Decane	0.4 ug/mL
							N-Nitrosodi-n-propylamine	0.4 ug/mL
							N-Nitrosodimethylamine	0.4 ug/mL
							N-Nitrosodiphenylamine	0.4 ug/mL
							n-Octadecane	0.4 ug/mL
							Naphthalene	0.4 ug/mL
							Nitrobenzene	0.4 ug/mL
							Phenanthrene	0.4 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-2

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Pyrene	0.4 ug/mL
							2,4,6-Tribromophenol	0.4 ug/mL
							2-Fluorobiphenyl (Surr)	0.4 ug/mL
							2-Fluorophenol	0.4 ug/mL
							Nitrobenzene-d5 (Surr)	0.4 ug/mL
							Phenol-d5	0.4 ug/mL
							Terphenyl-d14 (Surr)	0.4 ug/mL
.SM_HIVOLISTD_00219	01/11/19	07/11/18	Methylene Chloride, Lot 200432	4000 uL	SMISTDWORK_00367	1600 uL	1,4-Dichlorobenzene-d4	320 ug/mL
							Acenaphthene-d10	320 ug/mL
							Chrysene-d12	320 ug/mL
							Naphthalene-d8	320 ug/mL
							Perylene-d12	320 ug/mL
							Phenanthrene-d10	320 ug/mL
..SMISTDWORK_00367	01/11/19	07/11/18	Methylene Chloride, Lot 200432	4000 uL	SMISTD_WK_00046	1600 ug/Wipe	1,4-Dichlorobenzene-d4	800 ug/mL
							Acenaphthene-d10	800 ug/mL
							Chrysene-d12	800 ug/mL
							Naphthalene-d8	800 ug/mL
							Perylene-d12	800 ug/mL
							Phenanthrene-d10	800 ug/mL
...SMISTD_WK_00046	07/11/19	07/11/18	n/a, Lot n/a	5000 uL	SMISTD_ST_00015	5000 uL	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
....SMISTD_ST_00015	08/31/22		RESTEK, Lot A0129635			(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
.SMLST_1_3WK5_00006	09/30/18	07/17/18	Methylene Chloride, Lot 200432	1000 uL	SMLST1_5UL3WK_00006	250 uL	1,2,4-Trichlorobenzene	1 ug/mL
							1,2-Dichlorobenzene	1 ug/mL
							1,3-Dichlorobenzene	1 ug/mL
							1,4-Dichlorobenzene	1 ug/mL
							1-Methylnaphthalene	1 ug/mL
							2,2'-oxybis[1-chloropropane]	1 ug/mL
							2,4-Dinitrotoluene	1 ug/mL
							2,6-Dinitrotoluene	1 ug/mL
							2-Chloronaphthalene	1 ug/mL
							2-Methylnaphthalene	1 ug/mL
							2-Methylphenol	1 ug/mL
							3 & 4 Methylphenol	1 ug/mL
							Acenaphthene	1 ug/mL
							Acenaphthylene	1 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-2

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Acetophenone	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
							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
							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
							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	1 ug/mL
							n-Octadecane	1 ug/mL
							Naphthalene	1 ug/mL
							Nitrobenzene	1 ug/mL
							Phenanthrene	1 ug/mL
							Pyrene	1 ug/mL
							2,4,6-Tribromophenol	1 ug/mL
							2-Fluorobiphenyl (Surr)	1 ug/mL
							2-Fluorophenol	1 ug/mL
							Nitrobenzene-d5 (Surr)	1 ug/mL
							Phenol-d5	1 ug/mL
							Terphenyl-d14 (Surr)	1 ug/mL
..SMLST1_5UL3WK_00006	09/30/18	07/17/18	Methylene Chloride, Lot 200432	1000 uL	SMLST_1_3W5uL_00010	100 uL	1,2,4-Trichlorobenzene	4 ug/mL
							1,2-Dichlorobenzene	4 ug/mL
							1,3-Dichlorobenzene	4 ug/mL
							1,4-Dichlorobenzene	4 ug/mL
							1-Methylnaphthalene	4 ug/mL
							2,2'-oxybis[1-chloropropane]	4 ug/mL
							2,4-Dinitrotoluene	4 ug/mL
							2,6-Dinitrotoluene	4 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-2

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Chloronaphthalene	4 ug/mL
							2-Methylnaphthalene	4 ug/mL
							2-Methylphenol	4 ug/mL
							3 & 4 Methylphenol	4 ug/mL
							Acenaphthene	4 ug/mL
							Acenaphthylene	4 ug/mL
							Acetophenone	4 ug/mL
							Anthracene	4 ug/mL
							Benzo[a]anthracene	4 ug/mL
							Benzo[a]pyrene	4 ug/mL
							Benzo[b]fluoranthene	4 ug/mL
							Benzo[g,h,i]perylene	4 ug/mL
							Benzo[k]fluoranthene	4 ug/mL
							Bis (2-chloroethoxy)methane	4 ug/mL
							Bis (2-chloroethyl) ether	4 ug/mL
							Bis (2-ethylhexyl) phthalate	4 ug/mL
							Butyl benzyl phthalate	4 ug/mL
							Carbazole	4 ug/mL
							Chrysene	4 ug/mL
							Di-n-butyl phthalate	4 ug/mL
							Dibenz (a,h) anthracene	4 ug/mL
							Dibenzofuran	4 ug/mL
							Diethyl phthalate	4 ug/mL
							Dimethyl phthalate	4 ug/mL
							Fluoranthene	4 ug/mL
							Fluorene	4 ug/mL
							Hexachlorobenzene	4 ug/mL
							Hexachlorobutadiene	4 ug/mL
							Indeno[1,2,3-cd]pyrene	4 ug/mL
							Isophorone	4 ug/mL
							n-Decane	4 ug/mL
							N-Nitrosodi-n-propylamine	4 ug/mL
							N-Nitrosodimethylamine	4 ug/mL
							N-Nitrosodiphenylamine	4 ug/mL
							n-Octadecane	4 ug/mL
							Naphthalene	4 ug/mL
							Nitrobenzene	4 ug/mL
							Phenanthrene	4 ug/mL
							Pyrene	4 ug/mL
					SMSURR5uLWKG_00078	100 uL	2,4,6-Tribromophenol	4 ug/mL
							2-Fluorobiphenyl (Surr)	4 ug/mL
							2-Fluorophenol	4 ug/mL
							Nitrobenzene-d5 (Surr)	4 ug/mL
							Phenol-d5	4 ug/mL
							Terphenyl-d14 (Surr)	4 ug/mL
...SMLST_1_3W5uL_00010	09/30/18	07/16/18	Methylene Chloride, Lot 200432	1000 uL	SMLST_1_3W200_00004	200 uL	1,2,4-Trichlorobenzene	40 ug/mL
							1,2-Dichlorobenzene	40 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-2

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,3-Dichlorobenzene	40 ug/mL
							1,4-Dichlorobenzene	40 ug/mL
							1-Methylnaphthalene	40 ug/mL
							2,2'-oxybis[1-chloropropane]	40 ug/mL
							2,4-Dinitrotoluene	40 ug/mL
							2,6-Dinitrotoluene	40 ug/mL
							2-Chloronaphthalene	40 ug/mL
							2-Methylnaphthalene	40 ug/mL
							2-Methylphenol	40 ug/mL
							3 & 4 Methylphenol	40 ug/mL
							Acenaphthene	40 ug/mL
							Acenaphthylene	40 ug/mL
							Acetophenone	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
							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
							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
							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	40 ug/mL
							n-Octadecane	40 ug/mL
							Naphthalene	40 ug/mL
							Nitrobenzene	40 ug/mL
							Phenanthrene	40 ug/mL
							Pyrene	40 ug/mL
....SMLST_1_3W200_00004	09/30/18	06/06/18	Methylene Chloride, Lot 198794	1000 uL	SMcaLs1S1_WK_00010	200 uL	1,2,4-Trichlorobenzene	200 ug/mL
							1,2-Dichlorobenzene	200 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-2

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,3-Dichlorobenzene	200 ug/mL
							1,4-Dichlorobenzene	200 ug/mL
							1-Methylnaphthalene	200 ug/mL
							2,2'-oxybis[1-chloropropane]	200 ug/mL
							2,4-Dinitrotoluene	200 ug/mL
							2,6-Dinitrotoluene	200 ug/mL
							2-Chloronaphthalene	200 ug/mL
							2-Methylnaphthalene	200 ug/mL
							2-Methylphenol	200 ug/mL
							3 & 4 Methylphenol	200 ug/mL
							Acenaphthene	200 ug/mL
							Acenaphthylene	200 ug/mL
							Acetophenone	200 ug/mL
							Anthracene	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
							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
							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
							Indeno[1,2,3-cd]pyrene	200 ug/mL
							Isophorone	200 ug/mL
							n-Decane	200 ug/mL
							N-Nitrosodi-n-propylamine	200 ug/mL
							N-Nitrosodimethylamine	200 ug/mL
							N-Nitrosodiphenylamine	200 ug/mL
							n-Octadecane	200 ug/mL
							Naphthalene	200 ug/mL
							Nitrobenzene	200 ug/mL
							Phenanthrene	200 ug/mL
							Pyrene	200 ug/mL
.....SMcaLs1S1_WK_00010	09/30/18	12/29/17	n/a, Lot n/a	5000 uL	SMcaLs1S1_ST_00008	5000 uL	1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-2

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-Methylnaphthalene	1000 ug/mL
							2,2'-oxybis[1-chloropropane]	1000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							3 & 4 Methylphenol	1000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	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
							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
							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
							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	1000 ug/mL
							n-Octadecane	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Phenanthrene	1000 ug/mL
							Pyrene	1000 ug/mL
.....SMcaLs1S1_ST_00008	09/30/18		RESTEK, Lot A0125805			(Purchased Reagent)	1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-2

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
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							3 & 4 Methylphenol	1000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	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
							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
							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
							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	1000 ug/mL
							n-Octadecane	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Phenanthrene	1000 ug/mL
							Pyrene	1000 ug/mL
...SMSURR5uLWKG_00078	09/30/18	07/16/18	Methylene Chloride, Lot 200432	1000 uL	SMSURRWORK_00121	200 uL	2,4,6-Tribromophenol	40 ug/mL
							2-Fluorobiphenyl (Surr)	40 ug/mL
							2-Fluorophenol	40 ug/mL
							Nitrobenzene-d5 (Surr)	40 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-2

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Phenol-d5	40 ug/mL
							Terphenyl-d14 (Surr)	40 ug/mL
....SMSURRWORK_00121	09/30/18	06/07/18	Methylene Chloride, Lot 198794	1000 uL	SMSURROG_2WK_00032	400 uL	2,4,6-Tribromophenol	200 ug/mL
							2-Fluorobiphenyl (Surr)	200 ug/mL
							2-Fluorophenol	200 ug/mL
							Nitrobenzene-d5 (Surr)	200 ug/mL
							Phenol-d5	200 ug/mL
							Terphenyl-d14 (Surr)	200 ug/mL
.....SMSURROG_2WK_00032	09/30/18	04/12/18	Methylene Chloride, Lot 188082	1000 uL	SMSURROGAT_WK_00009	100 uL	2,4,6-Tribromophenol	500 ug/mL
							2-Fluorobiphenyl (Surr)	500 ug/mL
							2-Fluorophenol	500 ug/mL
							Nitrobenzene-d5 (Surr)	500 ug/mL
							Phenol-d5	500 ug/mL
							Terphenyl-d14 (Surr)	500 ug/mL
.....SMSURROGAT_WK_00009	09/30/18	12/29/17	n/a, Lot n/a	5000 uL	SMSURROGAT_ST_00011	5000 uL	2,4,6-Tribromophenol	5000 ug/mL
							2-Fluorobiphenyl (Surr)	5000 ug/mL
							2-Fluorophenol	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL
.....SMSURROGAT_ST_00011	09/30/22		RESTEK, Lot A0130500		(Purchased Reagent)		2,4,6-Tribromophenol	5000 ug/mL
							2-Fluorobiphenyl (Surr)	5000 ug/mL
							2-Fluorophenol	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL
SMLst1_5uL5_00044	09/30/18	07/18/18	Methylene Chloride, Lot 200432	500 uL	SM_HIVOLISTD_00219	5 uL	1,4-Dichlorobenzene-d4	3.2 ug/mL
							Acenaphthene-d10	3.2 ug/mL
							Chrysene-d12	3.2 ug/mL
							Naphthalene-d8	3.2 ug/mL
							Perylene-d12	3.2 ug/mL
							Phenanthrene-d10	3.2 ug/mL
					SMLST1_5UL3WK_00006	125 uL	1,1'-Biphenyl	1 ug/mL
							1,2,4,5-Tetrachlorobenzene	1 ug/mL
							1,2,4-Trichlorobenzene	1 ug/mL
							1,2-Dichlorobenzene	1 ug/mL
							1,2-Diphenylhydrazine	1 ug/mL
							1,3-Dichlorobenzene	1 ug/mL
							1,3-Dinitrobenzene	1 ug/mL
							1,4-Dichlorobenzene	1 ug/mL
							1,4-Dioxane	1 ug/mL
							1-Methylnaphthalene	1 ug/mL
							2,2'-oxybis[1-chloropropane]	1 ug/mL
							2,3,4,6-Tetrachlorophenol	1 ug/mL
							2,4,5-Trichlorophenol	1 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-2

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	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 & 4 Methylphenol	1 ug/mL
							3-Nitroaniline	1 ug/mL
							4,6-Dinitro-2-methylphenol	2 ug/mL
							4-Bromophenyl phenyl ether	1 ug/mL
							4-Chloro-3-methylphenol	1 ug/mL
							4-Chloroaniline	1 ug/mL
							4-Chlorophenyl phenyl ether	1 ug/mL
							4-Nitroaniline	1 ug/mL
							4-Nitrophenol	2 ug/mL
							Acenaphthene	1 ug/mL
							Acenaphthylene	1 ug/mL
							Acetophenone	1 ug/mL
							Aniline	1 ug/mL
							Anthracene	1 ug/mL
							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
							Diphenylamine	0.85 ug/mL
							Fluoranthene	1 ug/mL
							Fluorene	1 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-2

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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	1 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
							Pyrene	1 ug/mL
							Pyridine	2 ug/mL
							Benzoic acid	2 ug/mL
							Indene	2 ug/mL
							3,3'-Dichlorobenzidine	1 ug/mL
							Benzidine	1 ug/mL
							2,4,6-Tribromophenol	1 ug/mL
							2-Fluorobiphenyl (Surr)	1 ug/mL
							2-Fluorophenol	1 ug/mL
							Nitrobenzene-d5 (Surr)	1 ug/mL
							Phenol-d5	1 ug/mL
							Terphenyl-d14 (Surr)	1 ug/mL
.SM_HIVOLISTD_00219	01/11/19	07/11/18	Methylene Chloride, Lot 200432	4000 uL	SMISTDWORK_00367	1600 uL	1,4-Dichlorobenzene-d4	320 ug/mL
							Acenaphthene-d10	320 ug/mL
							Chrysene-d12	320 ug/mL
							Naphthalene-d8	320 ug/mL
							Perylene-d12	320 ug/mL
							Phenanthrene-d10	320 ug/mL
..SMISTDWORK_00367	01/11/19	07/11/18	Methylene Chloride, Lot 200432	4000 uL	SMISTD_WK_00046	1600 ug/Wipe	1,4-Dichlorobenzene-d4	800 ug/mL
							Acenaphthene-d10	800 ug/mL
							Chrysene-d12	800 ug/mL
							Naphthalene-d8	800 ug/mL
							Perylene-d12	800 ug/mL
							Phenanthrene-d10	800 ug/mL
...SMISTD_WK_00046	07/11/19	07/11/18	n/a, Lot n/a	5000 uL	SMISTD_ST_00015	5000 uL	1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-2

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
....SMISTD_ST_00015	08/31/22		RESTEK, Lot A0129635		(Purchased Reagent)		Phenanthrene-d10	2000 ug/mL
							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
.SMLST1_5UL3WK_00006	09/30/18	07/17/18	Methylene Chloride, Lot 200432	1000 uL	SMLST_1_3W5uL_00010	100 uL	Phenanthrene-d10	2000 ug/mL
							1,1'-Biphenyl	4 ug/mL
							1,2,4,5-Tetrachlorobenzene	4 ug/mL
							1,2,4-Trichlorobenzene	4 ug/mL
							1,2-Dichlorobenzene	4 ug/mL
							1,2-Diphenylhydrazine	4 ug/mL
							1,3-Dichlorobenzene	4 ug/mL
							1,3-Dinitrobenzene	4 ug/mL
							1,4-Dichlorobenzene	4 ug/mL
							1,4-Dioxane	4 ug/mL
							1-Methylnaphthalene	4 ug/mL
							2,2'-oxybis[1-chloropropane]	4 ug/mL
							2,3,4,6-Tetrachlorophenol	4 ug/mL
							2,4,5-Trichlorophenol	4 ug/mL
							2,4,6-Trichlorophenol	4 ug/mL
							2,4-Dichlorophenol	4 ug/mL
							2,4-Dimethylphenol	4 ug/mL
							2,4-Dinitrophenol	8 ug/mL
							2,4-Dinitrotoluene	4 ug/mL
							2,6-Dichlorophenol	4 ug/mL
							2,6-Dinitrotoluene	4 ug/mL
							2-Chloronaphthalene	4 ug/mL
							2-Chlorophenol	4 ug/mL
							2-Methylnaphthalene	4 ug/mL
							2-Methylphenol	4 ug/mL
							2-Nitroaniline	4 ug/mL
							2-Nitrophenol	4 ug/mL
							3 & 4 Methylphenol	4 ug/mL
							3-Nitroaniline	4 ug/mL
							4,6-Dinitro-2-methylphenol	8 ug/mL
							4-Bromophenyl phenyl ether	4 ug/mL
							4-Chloro-3-methylphenol	4 ug/mL
							4-Chloroaniline	4 ug/mL
							4-Chlorophenyl phenyl ether	4 ug/mL
							4-Nitroaniline	4 ug/mL
							4-Nitrophenol	8 ug/mL
							Acenaphthene	4 ug/mL
							Acenaphthylene	4 ug/mL
							Acetophenone	4 ug/mL
							Aniline	4 ug/mL
							Anthracene	4 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-2

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzo[a]anthracene	4 ug/mL
							Benzo[a]pyrene	4 ug/mL
							Benzo[b]fluoranthene	4 ug/mL
							Benzo[g,h,i]perylene	4 ug/mL
							Benzo[k]fluoranthene	4 ug/mL
							Benzyl alcohol	4 ug/mL
							Bis (2-chloroethoxy)methane	4 ug/mL
							Bis (2-chloroethyl) ether	4 ug/mL
							Bis (2-ethylhexyl) phthalate	4 ug/mL
							Butyl benzyl phthalate	4 ug/mL
							Carbazole	4 ug/mL
							Chrysene	4 ug/mL
							Di-n-butyl phthalate	4 ug/mL
							Di-n-octyl phthalate	4 ug/mL
							Dibenz (a,h) anthracene	4 ug/mL
							Dibenzofuran	4 ug/mL
							Diethyl phthalate	4 ug/mL
							Dimethyl phthalate	4 ug/mL
							Diphenylamine	3.4 ug/mL
							Fluoranthene	4 ug/mL
							Fluorene	4 ug/mL
							Hexachlorobenzene	4 ug/mL
							Hexachlorobutadiene	4 ug/mL
							Hexachlorocyclopentadiene	4 ug/mL
							Hexachloroethane	4 ug/mL
							Hexadecane	4 ug/mL
							Indeno[1,2,3-cd]pyrene	4 ug/mL
							Isophorone	4 ug/mL
							n-Decane	4 ug/mL
							N-Nitrosodi-n-propylamine	4 ug/mL
							N-Nitrosodimethylamine	4 ug/mL
							N-Nitrosodiphenylamine	4 ug/mL
							n-Octadecane	4 ug/mL
							Naphthalene	4 ug/mL
							Nitrobenzene	4 ug/mL
							Pentachlorophenol	8 ug/mL
							Phenanthrene	4 ug/mL
							Phenol	4 ug/mL
							Pyrene	4 ug/mL
							Pyridine	8 ug/mL
							Benzoic acid	8 ug/mL
							Indene	8 ug/mL
							3,3'-Dichlorobenzidine	4 ug/mL
							Ben-zidine	4 ug/mL
					SMSURR5uLWKG_00078	100 uL	2,4,6-Tribromophenol	4 ug/mL
							2-Fluorobiphenyl (Surr)	4 ug/mL
							2-Fluorophenol	4 ug/mL
							Nitrobenzene-d5 (Surr)	4 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-2

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Phenol-d5	4 ug/mL
							Terphenyl-d14 (Surr)	4 ug/mL
..SMLST_1_3W5uL_00010	09/30/18	07/16/18	Methylene Chloride, Lot 200432	1000 uL	SMLST_1_3W200_00004	200 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 & 4 Methylphenol	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-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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-2

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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
							Diphenylamine	34 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	40 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	80 ug/mL
							Benzoic acid	80 ug/mL
							Indene	80 ug/mL
							3,3'-Dichlorobenzidine	40 ug/mL
							Benzidine	40 ug/mL
...SMLST_1_3W200_00004	09/30/18	06/06/18	Methylene Chloride, Lot 198794	1000 uL	SMcaLs1S1_WK_00010	200 uL	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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-2

SDG No.: _____

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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-2

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Diethyl phthalate	200 ug/mL
							Dimethyl phthalate	200 ug/mL
							Diphenylamine	170 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
							n-Decane	200 ug/mL
							N-Nitrosodi-n-propylamine	200 ug/mL
							N-Nitrosodimethylamine	200 ug/mL
							N-Nitrosodiphenylamine	200 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	400 ug/mL
					SMcaLs1S10_WK_00005	200 uL	Benzoic acid	400 ug/mL
							Indene	400 ug/mL
					SMcaLs1S9_WK_00007	100 uL	3,3'-Dichlorobenzidine	200 ug/mL
							Benzidine	200 ug/mL
....SMcaLs1S1_WK_00010	09/30/18	12/29/17	n/a, Lot n/a	5000 uL	SMcaLs1S1_ST_00008	5000 uL	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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-2

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3 & 4 Methylphenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							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
							Diphenylamine	850 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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-2

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							n-Decane	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							N-Nitrosodiphenylamine	1000 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	2000 ug/mL
.....SMcaLs1S1_ST_00008	09/30/18		RESTEK, Lot A0125805		(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 & 4 Methylphenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-2

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
							Diphenylamine	850 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	1000 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	2000 ug/mL
....SMcaLs1S10_WK_00005	09/30/18	12/29/17	na, Lot na	5000 uL	SMcaLs1S10_ST_00005	5000 uL	Benzoic acid	2000 ug/mL
....SMcaLs1S10_ST_00005	03/31/19		RESTEK, Lot A0130477			(Purchased Reagent)	Indene	2000 ug/mL
							Benzoic acid	2000 ug/mL
							Indene	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-2

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
....SMcaLs1S9_WK_00007	09/30/18	12/29/17	Methylene Chloride, Lot na	5000 uL	SMcaLs1S9_ST_00005	5000 uL	3,3'-Dichlorobenzidine	2000 ug/mL
.....SMcaLs1S9_ST_00005	11/30/18	RESTEK, Lot A0127472			(Purchased Reagent)		Benzidine	2000 ug/mL
..SMSURR5uLWKG_00078	09/30/18	07/16/18	Methylene Chloride, Lot 200432	1000 uL	SMSURRWORK_00121	200 uL	3,3'-Dichlorobenzidine	2000 ug/mL
							Benzidine	2000 ug/mL
							2,4,6-Tribromophenol	40 ug/mL
							2-Fluorobiphenyl (Surr)	40 ug/mL
							2-Fluorophenol	40 ug/mL
							Nitrobenzene-d5 (Surr)	40 ug/mL
							Phenol-d5	40 ug/mL
							Terphenyl-d14 (Surr)	40 ug/mL
...SMSURRWORK_00121	09/30/18	06/07/18	Methylene Chloride, Lot 198794	1000 uL	SMSURROG_2WK_00032	400 uL	2,4,6-Tribromophenol	200 ug/mL
							2-Fluorobiphenyl (Surr)	200 ug/mL
							2-Fluorophenol	200 ug/mL
							Nitrobenzene-d5 (Surr)	200 ug/mL
							Phenol-d5	200 ug/mL
							Terphenyl-d14 (Surr)	200 ug/mL
....SMSURROG_2WK_00032	09/30/18	04/12/18	Methylene Chloride, Lot 188082	1000 uL	SMSURROGAT_WK_00009	100 uL	2,4,6-Tribromophenol	500 ug/mL
							2-Fluorobiphenyl (Surr)	500 ug/mL
							2-Fluorophenol	500 ug/mL
							Nitrobenzene-d5 (Surr)	500 ug/mL
							Phenol-d5	500 ug/mL
							Terphenyl-d14 (Surr)	500 ug/mL
.....SMSURROGAT_WK_00009	09/30/18	12/29/17	n/a, Lot n/a	5000 uL	SMSURROGAT_ST_00011	5000 uL	2,4,6-Tribromophenol	5000 ug/mL
							2-Fluorobiphenyl (Surr)	5000 ug/mL
							2-Fluorophenol	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL
.....SMSURROGAT_ST_00011	09/30/22	RESTEK, Lot A0130500			(Purchased Reagent)		2,4,6-Tribromophenol	5000 ug/mL
							2-Fluorobiphenyl (Surr)	5000 ug/mL
							2-Fluorophenol	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL
SMLst1_5uLL6_00043	09/30/18	07/18/18	Methylene Chloride, Lot 200432	500 uL	SM_HIVOLISTD_00219	5 uL	1,4-Dichlorobenzene-d4	3.2 ug/mL
							Acenaphthene-d10	3.2 ug/mL
							Chrysene-d12	3.2 ug/mL
							Naphthalene-d8	3.2 ug/mL
							Perylene-d12	3.2 ug/mL
							Phenanthrene-d10	3.2 ug/mL
					SMLST1_5UL3WK_00006	250 uL	1,1'-Biphenyl	2 ug/mL
							1,2,4,5-Tetrachlorobenzene	2 ug/mL
							1,2,4-Trichlorobenzene	2 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-2

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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 & 4 Methylphenol	2 ug/mL
							3-Nitroaniline	2 ug/mL
							4,6-Dinitro-2-methylphenol	4 ug/mL
							4-Bromophenyl phenyl ether	2 ug/mL
							4-Chloro-3-methylphenol	2 ug/mL
							4-Chloroaniline	2 ug/mL
							4-Chlorophenyl phenyl ether	2 ug/mL
							4-Nitroaniline	2 ug/mL
							4-Nitrophenol	4 ug/mL
							Acenaphthene	2 ug/mL
							Acenaphthylene	2 ug/mL
							Acetophenone	2 ug/mL
							Aniline	2 ug/mL
							Anthracene	2 ug/mL
							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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-2

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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
							Diphenylamine	1.7 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	2 ug/mL
							n-Octadecane	2 ug/mL
							Naphthalene	2 ug/mL
							Nitrobenzene	2 ug/mL
							Pentachlorophenol	4 ug/mL
							Phenanthrene	2 ug/mL
							Phenol	2 ug/mL
							Pyrene	2 ug/mL
							Pyridine	4 ug/mL
							Benzoic acid	4 ug/mL
							Indene	4 ug/mL
							3,3'-Dichlorobenzidine	2 ug/mL
							Benzidine	2 ug/mL
							2,4,6-Tribromophenol	2 ug/mL
							2-Fluorobiphenyl (Surr)	2 ug/mL
							2-Fluorophenol	2 ug/mL
							Nitrobenzene-d5 (Surr)	2 ug/mL
							Phenol-d5	2 ug/mL
							Terphenyl-d14 (Surr)	2 ug/mL
.SM_HIVOLISTD_00219	01/11/19	07/11/18	Methylene Chloride, Lot 200432	4000 uL	SMISTDWORK_00367	1600 uL	1,4-Dichlorobenzene-d4	320 ug/mL
							Acenaphthene-d10	320 ug/mL
							Chrysene-d12	320 ug/mL
							Naphthalene-d8	320 ug/mL
							Perylene-d12	320 ug/mL
							Phenanthrene-d10	320 ug/mL
..SMISTDWORK_00367	01/11/19	07/11/18	Methylene Chloride, Lot 200432	4000 uL	SMISTD_WK_00046	1600 ug/Wipe	1,4-Dichlorobenzene-d4	800 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-2

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Acenaphthene-d10	800 ug/mL
							Chrysene-d12	800 ug/mL
							Naphthalene-d8	800 ug/mL
							Perylene-d12	800 ug/mL
							Phenanthrene-d10	800 ug/mL
...SMISTD_WK_00046	07/11/19	07/11/18	n/a, Lot n/a	5000 uL	SMISTD_ST_00015	5000 uL	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
....SMISTD_ST_00015	08/31/22		RESTEK, Lot A0129635			(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
.SMLST1_5UL3WK_00006	09/30/18	07/17/18	Methylene Chloride, Lot 200432	1000 uL	SMLST_1_3W5uL_00010	100 uL	1,1'-Biphenyl	4 ug/mL
							1,2,4,5-Tetrachlorobenzene	4 ug/mL
							1,2,4-Trichlorobenzene	4 ug/mL
							1,2-Dichlorobenzene	4 ug/mL
							1,2-Diphenylhydrazine	4 ug/mL
							1,3-Dichlorobenzene	4 ug/mL
							1,3-Dinitrobenzene	4 ug/mL
							1,4-Dichlorobenzene	4 ug/mL
							1,4-Dioxane	4 ug/mL
							1-Methylnaphthalene	4 ug/mL
							2,2'-oxybis[1-chloropropane]	4 ug/mL
							2,3,4,6-Tetrachlorophenol	4 ug/mL
							2,4,5-Trichlorophenol	4 ug/mL
							2,4,6-Trichlorophenol	4 ug/mL
							2,4-Dichlorophenol	4 ug/mL
							2,4-Dimethylphenol	4 ug/mL
							2,4-Dinitrophenol	8 ug/mL
							2,4-Dinitrotoluene	4 ug/mL
							2,6-Dichlorophenol	4 ug/mL
							2,6-Dinitrotoluene	4 ug/mL
							2-Chloronaphthalene	4 ug/mL
							2-Chlorophenol	4 ug/mL
							2-Methylnaphthalene	4 ug/mL
							2-Methylphenol	4 ug/mL
							2-Nitroaniline	4 ug/mL
							2-Nitrophenol	4 ug/mL
							3 & 4 Methylphenol	4 ug/mL
							3-Nitroaniline	4 ug/mL
							4,6-Dinitro-2-methylphenol	8 ug/mL
							4-Bromophenyl phenyl ether	4 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-2

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	4 ug/mL
							4-Chloroaniline	4 ug/mL
							4-Chlorophenyl phenyl ether	4 ug/mL
							4-Nitroaniline	4 ug/mL
							4-Nitrophenol	8 ug/mL
							Acenaphthene	4 ug/mL
							Acenaphthylene	4 ug/mL
							Acetophenone	4 ug/mL
							Aniline	4 ug/mL
							Anthracene	4 ug/mL
							Benzo[a]anthracene	4 ug/mL
							Benzo[a]pyrene	4 ug/mL
							Benzo[b]fluoranthene	4 ug/mL
							Benzo[g,h,i]perylene	4 ug/mL
							Benzo[k]fluoranthene	4 ug/mL
							Benzyl alcohol	4 ug/mL
							Bis (2-chloroethoxy)methane	4 ug/mL
							Bis (2-chloroethyl) ether	4 ug/mL
							Bis (2-ethylhexyl) phthalate	4 ug/mL
							Butyl benzyl phthalate	4 ug/mL
							Carbazole	4 ug/mL
							Chrysene	4 ug/mL
							Di-n-butyl phthalate	4 ug/mL
							Di-n-octyl phthalate	4 ug/mL
							Dibenz (a,h) anthracene	4 ug/mL
							Dibenzofuran	4 ug/mL
							Diethyl phthalate	4 ug/mL
							Dimethyl phthalate	4 ug/mL
							Diphenylamine	3.4 ug/mL
							Fluoranthene	4 ug/mL
							Fluorene	4 ug/mL
							Hexachlorobenzene	4 ug/mL
							Hexachlorobutadiene	4 ug/mL
							Hexachlorocyclopentadiene	4 ug/mL
							Hexachloroethane	4 ug/mL
							Hexadecane	4 ug/mL
							Indeno[1,2,3-cd]pyrene	4 ug/mL
							Isophorone	4 ug/mL
							n-Decane	4 ug/mL
							N-Nitrosodi-n-propylamine	4 ug/mL
							N-Nitrosodimethylamine	4 ug/mL
							N-Nitrosodiphenylamine	4 ug/mL
							n-Octadecane	4 ug/mL
							Naphthalene	4 ug/mL
							Nitrobenzene	4 ug/mL
							Pentachlorophenol	8 ug/mL
							Phenanthrene	4 ug/mL
							Phenol	4 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-2

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Pyrene	4 ug/mL
							Pyridine	8 ug/mL
							Benzoic acid	8 ug/mL
							Indene	8 ug/mL
							3,3'-Dichlorobenzidine	4 ug/mL
							Benzidine	4 ug/mL
					SMSURR5uLWKG_00078	100 uL	2,4,6-Tribromophenol	4 ug/mL
							2-Fluorobiphenyl (Surr)	4 ug/mL
							2-Fluorophenol	4 ug/mL
							Nitrobenzene-d5 (Surr)	4 ug/mL
							Phenol-d5	4 ug/mL
							Terphenyl-d14 (Surr)	4 ug/mL
..SMLST_1_3W5uL_00010	09/30/18	07/16/18	Methylene Chloride, Lot 200432	1000 uL	SMLST_1_3W200_00004	200 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 & 4 Methylphenol	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-Nitroaniline	40 ug/mL
							4-Nitrophenol	80 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-2

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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
							Diphenylamine	34 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	40 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	80 ug/mL
							Benzoic acid	80 ug/mL
							Indene	80 ug/mL
							3,3'-Dichlorobenzidine	40 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-2

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
...SMLST_1_3W200_00004	09/30/18	06/06/18	Methylene Chloride, Lot 198794	1000 uL	SMcaLs1S1_WK_00010	200 uL	Benzidine	40 ug/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-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							
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							
Benzyl alcohol	200 ug/mL							

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-2

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	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
							Diphenylamine	170 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
							n-Decane	200 ug/mL
							N-Nitrosodi-n-propylamine	200 ug/mL
							N-Nitrosodimethylamine	200 ug/mL
							N-Nitrosodiphenylamine	200 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	400 ug/mL
					SMcaLs1S10_WK_00005	200 uL	Benzoic acid	400 ug/mL
							Indene	400 ug/mL
					SMcaLs1S9_WK_00007	100 uL	3,3'-Dichlorobenzidine	200 ug/mL
							Benzidine	200 ug/mL
....SMcaLs1S1_WK_00010	09/30/18	12/29/17	n/a, Lot n/a	5000 uL	SMcaLs1S1_ST_00008	5000 uL	1,1'-Biphenyl	1000 ug/mL
							1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-2

SDG No.: _____

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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-2

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Diphenylamine	850 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	1000 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	2000 ug/mL
.....SMcaLs1S1_ST_00008	09/30/18		RESTEK, Lot A0125805			(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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-2

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							3 & 4 Methylphenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							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
							Diphenylamine	850 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	1000 ug/mL
							n-Octadecane	1000 ug/mL
							Naphthalene	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-2

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	2000 ug/mL
....SMcaLs1S10_WK_00005	09/30/18	12/29/17	na, Lot na	5000 uL	SMcaLs1S10_ST_00005	5000 uL	Benzoic acid	2000 ug/mL
							Indene	2000 ug/mL
....SMcaLs1S10_ST_00005	03/31/19		RESTEK, Lot A0130477		(Purchased Reagent)		Benzoic acid	2000 ug/mL
							Indene	2000 ug/mL
....SMcaLs1S9_WK_00007	09/30/18	12/29/17	Methylene Chloride, Lot na	5000 uL	SMcaLs1S9_ST_00005	5000 uL	3,3'-Dichlorobenzidine	2000 ug/mL
							Benzidine	2000 ug/mL
....SMcaLs1S9_ST_00005	11/30/18		RESTEK, Lot A0127472		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Benzidine	2000 ug/mL
..SMSURR5uLWKG_00078	09/30/18	07/16/18	Methylene Chloride, Lot 200432	1000 uL	SMSURRWORK_00121	200 uL	2,4,6-Tribromophenol	40 ug/mL
							2-Fluorobiphenyl (Surr)	40 ug/mL
							2-Fluorophenol	40 ug/mL
							Nitrobenzene-d5 (Surr)	40 ug/mL
							Phenol-d5	40 ug/mL
							Terphenyl-d14 (Surr)	40 ug/mL
...SMSURRWORK_00121	09/30/18	06/07/18	Methylene Chloride, Lot 198794	1000 uL	SMSURROG_2WK_00032	400 uL	2,4,6-Tribromophenol	200 ug/mL
							2-Fluorobiphenyl (Surr)	200 ug/mL
							2-Fluorophenol	200 ug/mL
							Nitrobenzene-d5 (Surr)	200 ug/mL
							Phenol-d5	200 ug/mL
							Terphenyl-d14 (Surr)	200 ug/mL
....SMSURROG_2WK_00032	09/30/18	04/12/18	Methylene Chloride, Lot 188082	1000 uL	SMSURROGAT_WK_00009	100 uL	2,4,6-Tribromophenol	500 ug/mL
							2-Fluorobiphenyl (Surr)	500 ug/mL
							2-Fluorophenol	500 ug/mL
							Nitrobenzene-d5 (Surr)	500 ug/mL
							Phenol-d5	500 ug/mL
							Terphenyl-d14 (Surr)	500 ug/mL
....SMSURROGAT_WK_00009	09/30/18	12/29/17	n/a, Lot n/a	5000 uL	SMSURROGAT_ST_00011	5000 uL	2,4,6-Tribromophenol	5000 ug/mL
							2-Fluorobiphenyl (Surr)	5000 ug/mL
							2-Fluorophenol	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL
.....SMSURROGAT_ST_00011	09/30/22		RESTEK, Lot A0130500		(Purchased Reagent)		2,4,6-Tribromophenol	5000 ug/mL
							2-Fluorobiphenyl (Surr)	5000 ug/mL
							2-Fluorophenol	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-2

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
SMLst1_5uLL7_00043	09/30/18	07/18/18	Methylene Chloride, Lot 200432	500 uL	SM_HIVOLISTD_00219	5 uL	1,4-Dichlorobenzene-d4	3.2 ug/mL
							Acenaphthene-d10	3.2 ug/mL
							Chrysene-d12	3.2 ug/mL
							Naphthalene-d8	3.2 ug/mL
							Perylene-d12	3.2 ug/mL
							Phenanthrene-d10	3.2 ug/mL
					SMLST_1_3W5uL_00010	50 uL	1,1'-Biphenyl	4 ug/mL
							1,2,4,5-Tetrachlorobenzene	4 ug/mL
							1,2,4-Trichlorobenzene	4 ug/mL
							1,2-Dichlorobenzene	4 ug/mL
							1,2-Diphenylhydrazine	4 ug/mL
							1,3-Dichlorobenzene	4 ug/mL
							1,3-Dinitrobenzene	4 ug/mL
							1,4-Dichlorobenzene	4 ug/mL
							1,4-Dioxane	4 ug/mL
							1-Methylnaphthalene	4 ug/mL
							2,2'-oxybis[1-chloropropane]	4 ug/mL
							2,3,4,6-Tetrachlorophenol	4 ug/mL
							2,4,5-Trichlorophenol	4 ug/mL
							2,4,6-Trichlorophenol	4 ug/mL
							2,4-Dichlorophenol	4 ug/mL
							2,4-Dimethylphenol	4 ug/mL
							2,4-Dinitrophenol	8 ug/mL
							2,4-Dinitrotoluene	4 ug/mL
							2,6-Dichlorophenol	4 ug/mL
							2,6-Dinitrotoluene	4 ug/mL
							2-Chloronaphthalene	4 ug/mL
							2-Chlorophenol	4 ug/mL
							2-Methylnaphthalene	4 ug/mL
							2-Methylphenol	4 ug/mL
							2-Nitroaniline	4 ug/mL
							2-Nitrophenol	4 ug/mL
							3 & 4 Methylphenol	4 ug/mL
							3-Nitroaniline	4 ug/mL
							4,6-Dinitro-2-methylphenol	8 ug/mL
							4-Bromophenyl phenyl ether	4 ug/mL
							4-Chloro-3-methylphenol	4 ug/mL
							4-Chloroaniline	4 ug/mL
							4-Chlorophenyl phenyl ether	4 ug/mL
							4-Nitroaniline	4 ug/mL
							4-Nitrophenol	8 ug/mL
							Acenaphthene	4 ug/mL
							Acenaphthylene	4 ug/mL
							Acetophenone	4 ug/mL
							Aniline	4 ug/mL
							Anthracene	4 ug/mL
							Benzo[a]anthracene	4 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-2

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzo[a]pyrene	4 ug/mL
							Benzo[b]fluoranthene	4 ug/mL
							Benzo[g,h,i]perylene	4 ug/mL
							Benzo[k]fluoranthene	4 ug/mL
							Benzyl alcohol	4 ug/mL
							Bis (2-chloroethoxy)methane	4 ug/mL
							Bis (2-chloroethyl) ether	4 ug/mL
							Bis (2-ethylhexyl) phthalate	4 ug/mL
							Butyl benzyl phthalate	4 ug/mL
							Carbazole	4 ug/mL
							Chrysene	4 ug/mL
							Di-n-butyl phthalate	4 ug/mL
							Di-n-octyl phthalate	4 ug/mL
							Dibenz (a,h) anthracene	4 ug/mL
							Dibenzofuran	4 ug/mL
							Diethyl phthalate	4 ug/mL
							Dimethyl phthalate	4 ug/mL
							Diphenylamine	3.4 ug/mL
							Fluoranthene	4 ug/mL
							Fluorene	4 ug/mL
							Hexachlorobenzene	4 ug/mL
							Hexachlorobutadiene	4 ug/mL
							Hexachlorocyclopentadiene	4 ug/mL
							Hexachloroethane	4 ug/mL
							Hexadecane	4 ug/mL
							Indeno[1,2,3-cd]pyrene	4 ug/mL
							Isophorone	4 ug/mL
							n-Decane	4 ug/mL
							N-Nitrosodi-n-propylamine	4 ug/mL
							N-Nitrosodimethylamine	4 ug/mL
							N-Nitrosodiphenylamine	4 ug/mL
							n-Octadecane	4 ug/mL
							Naphthalene	4 ug/mL
							Nitrobenzene	4 ug/mL
							Pentachlorophenol	8 ug/mL
							Phenanthrene	4 ug/mL
							Phenol	4 ug/mL
							Pyrene	4 ug/mL
							Pyridine	8 ug/mL
							Benzoic acid	8 ug/mL
							Indene	8 ug/mL
							3,3'-Dichlorobenzidine	4 ug/mL
							Benzidine	4 ug/mL
					SMSURR5uLWKG_00078	50 uL	2,4,6-Tribromophenol	4 ug/mL
							2-Fluorobiphenyl (Surr)	4 ug/mL
							2-Fluorophenol	4 ug/mL
							Nitrobenzene-d5 (Surr)	4 ug/mL
							Phenol-d5	4 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-2

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.SM_HIVOLISTD_00219	01/11/19	07/11/18	Methylene Chloride, Lot 200432	4000 uL	SMISTDWORK_00367	1600 uL	Terphenyl-d14 (Surr)	4 ug/mL
							1,4-Dichlorobenzene-d4	320 ug/mL
							Acenaphthene-d10	320 ug/mL
							Chrysene-d12	320 ug/mL
							Naphthalene-d8	320 ug/mL
							Perylene-d12	320 ug/mL
..SMISTDWORK_00367	01/11/19	07/11/18	Methylene Chloride, Lot 200432	4000 uL	SMISTD_WK_00046	1600 ug/Wipe	1,4-Dichlorobenzene-d4	800 ug/mL
							Acenaphthene-d10	800 ug/mL
							Chrysene-d12	800 ug/mL
							Naphthalene-d8	800 ug/mL
							Perylene-d12	800 ug/mL
							Phenanthrene-d10	800 ug/mL
...SMISTD_WK_00046	07/11/19	07/11/18	n/a, Lot n/a	5000 uL	SMISTD_ST_00015	5000 uL	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
....SMISTD_ST_00015	08/31/22	RESTEK, Lot A0129635			(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
.SMLST_1_3W5uL_00010	09/30/18	07/16/18	Methylene Chloride, Lot 200432	1000 uL	SMLST_1_3W200_00004	200 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							

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-2

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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 & 4 Methylphenol	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-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
							Diphenylamine	34 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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-2

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							n-Decane	40 ug/mL
							N-Nitrosodi-n-propylamine	40 ug/mL
							N-Nitrosodimethylamine	40 ug/mL
							N-Nitrosodiphenylamine	40 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	80 ug/mL
							Benzoic acid	80 ug/mL
							Indene	80 ug/mL
							3,3'-Dichlorobenzidine	40 ug/mL
							Benzidine	40 ug/mL
..SMLST_1_3W200_00004	09/30/18	06/06/18	Methylene Chloride, Lot 198794	1000 uL	SMcaLs1S1_WK_00010	200 uL	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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-2

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4-Chloroaniline	200 ug/mL
							4-Chlorophenyl phenyl ether	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
							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
							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
							Diphenylamine	170 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
							n-Decane	200 ug/mL
							N-Nitrosodi-n-propylamine	200 ug/mL
							N-Nitrosodimethylamine	200 ug/mL
							N-Nitrosodiphenylamine	200 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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-2

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration		
					Reagent ID	Volume Added				
							Pyridine	400 ug/mL		
							SMcaLs1S10_WK_00005	200 uL	Benzoic acid	400 ug/mL
									Indene	400 ug/mL
							SMcaLs1S9_WK_00007	100 uL	3,3'-Dichlorobenzidine	200 ug/mL
...SMcaLs1S1_WK_00010	09/30/18	12/29/17	n/a, Lot n/a	5000 uL	SMcaLs1S1_ST_00008	5000 uL	Benidine	200 ug/mL		
							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 & 4 Methylphenol	1000 ug/mL		
							3-Nitroaniline	1000 ug/mL		
							4,6-Dinitro-2-methylphenol	2000 ug/mL		
							4-Bromophenyl phenyl ether	1000 ug/mL		
							4-Chloro-3-methylphenol	1000 ug/mL		
							4-Chloroaniline	1000 ug/mL		
							4-Chlorophenyl phenyl ether	1000 ug/mL		
							4-Nitroaniline	1000 ug/mL		
							4-Nitrophenol	2000 ug/mL		
							Acenaphthene	1000 ug/mL		
							Acenaphthylene	1000 ug/mL		
							Acetophenone	1000 ug/mL		
							Aniline	1000 ug/mL		
							Anthracene	1000 ug/mL		
Benzo[a]anthracene	1000 ug/mL									
Benzo[a]pyrene	1000 ug/mL									
Benzo[b]fluoranthene	1000 ug/mL									

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-2

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzo[g,h,i]perylene	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
							Diphenylamine	850 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	1000 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	2000 ug/mL
....SMcaIs1S1_ST_00008	09/30/18		RESTEK, Lot A0125805			(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 Chicago

Job No.: 500-150867-2

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 & 4 Methylphenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							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
							Diphenylamine	850 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-2

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							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	1000 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	2000 ug/mL
...SMcaLs1S10_WK_00005	09/30/18	12/29/17	na, Lot na	5000 uL	SMcaLs1S10_ST_00005	5000 uL	Benzoic acid	2000 ug/mL
							Indene	2000 ug/mL
...SMcaLs1S10_ST_00005	03/31/19		RESTEK, Lot A0130477			(Purchased Reagent)	Benzoic acid	2000 ug/mL
							Indene	2000 ug/mL
...SMcaLs1S9_WK_00007	09/30/18	12/29/17	Methylene Chloride, Lot na	5000 uL	SMcaLs1S9_ST_00005	5000 uL	3,3'-Dichlorobenzidine	2000 ug/mL
							Ben-zidine	2000 ug/mL
...SMcaLs1S9_ST_00005	11/30/18		RESTEK, Lot A0127472			(Purchased Reagent)	3,3'-Dichlorobenzidine	2000 ug/mL
							Ben-zidine	2000 ug/mL
.SMSURR5uLWKG_00078	09/30/18	07/16/18	Methylene Chloride, Lot 200432	1000 uL	SMSURRWORK_00121	200 uL	2,4,6-Tribromophenol	40 ug/mL
							2-Fluorobiphenyl (Surr)	40 ug/mL
							2-Fluorophenol	40 ug/mL
							Nitrobenzene-d5 (Surr)	40 ug/mL
							Phenol-d5	40 ug/mL
							Terphenyl-d14 (Surr)	40 ug/mL
..SMSURRWORK_00121	09/30/18	06/07/18	Methylene Chloride, Lot 198794	1000 uL	SMSURROG_2WK_00032	400 uL	2,4,6-Tribromophenol	200 ug/mL
							2-Fluorobiphenyl (Surr)	200 ug/mL
							2-Fluorophenol	200 ug/mL
							Nitrobenzene-d5 (Surr)	200 ug/mL
							Phenol-d5	200 ug/mL
							Terphenyl-d14 (Surr)	200 ug/mL
...SMSURROG_2WK_00032	09/30/18	04/12/18	Methylene Chloride, Lot 188082	1000 uL	SMSURROGAT_WK_00009	100 uL	2,4,6-Tribromophenol	500 ug/mL
							2-Fluorobiphenyl (Surr)	500 ug/mL
							2-Fluorophenol	500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-2

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration	
					Reagent ID	Volume Added			
....SMSURROGAT_WK_00009	09/30/18	12/29/17	n/a, Lot n/a	5000 uL	SMSURROGAT_ST_00011	5000 uL	Nitrobenzene-d5 (Surr)	500 ug/mL	
							Phenol-d5	500 ug/mL	
							Terphenyl-d14 (Surr)	500 ug/mL	
							2,4,6-Tribromophenol	5000 ug/mL	
							2-Fluorobiphenyl (Surr)	5000 ug/mL	
							2-Fluorophenol	5000 ug/mL	
							Nitrobenzene-d5 (Surr)	5000 ug/mL	
.....SMSURROGAT_ST_00011	09/30/22		RESTEK, Lot A0130500				(Purchased Reagent)	2,4,6-Tribromophenol	5000 ug/mL
							2-Fluorobiphenyl (Surr)	5000 ug/mL	
							2-Fluorophenol	5000 ug/mL	
							Nitrobenzene-d5 (Surr)	5000 ug/mL	
							Phenol-d5	5000 ug/mL	
							Terphenyl-d14 (Surr)	5000 ug/mL	
SMLst1_5uLL8_00043	09/30/18	07/18/18	Methylene Chloride, Lot 200432	500 uL	SM_HIVOLISTD_00219	5 uL	1,4-Dichlorobenzene-d4	3.2 ug/mL	
							Acenaphthene-d10	3.2 ug/mL	
							Chrysene-d12	3.2 ug/mL	
							Naphthalene-d8	3.2 ug/mL	
							Perylene-d12	3.2 ug/mL	
							Phenanthrene-d10	3.2 ug/mL	
					SMLST_1_3W5uL_00010	100 uL	1,1'-Biphenyl	8 ug/mL	
							1,2,4,5-Tetrachlorobenzene	8 ug/mL	
							1,2,4-Trichlorobenzene	8 ug/mL	
							1,2-Dichlorobenzene	8 ug/mL	
							1,2-Diphenylhydrazine	8 ug/mL	
							1,3-Dichlorobenzene	8 ug/mL	
							1,3-Dinitrobenzene	8 ug/mL	
							1,4-Dichlorobenzene	8 ug/mL	
							1,4-Dioxane	8 ug/mL	
							1-Methylnaphthalene	8 ug/mL	
							2,2'-oxybis[1-chloropropane]	8 ug/mL	
							2,3,4,6-Tetrachlorophenol	8 ug/mL	
							2,4,5-Trichlorophenol	8 ug/mL	
							2,4,6-Trichlorophenol	8 ug/mL	
							2,4-Dichlorophenol	8 ug/mL	
							2,4-Dimethylphenol	8 ug/mL	
							2,4-Dinitrophenol	16 ug/mL	
							2,4-Dinitrotoluene	8 ug/mL	
							2,6-Dichlorophenol	8 ug/mL	
							2,6-Dinitrotoluene	8 ug/mL	
							2-Chloronaphthalene	8 ug/mL	
							2-Chlorophenol	8 ug/mL	
							2-Methylnaphthalene	8 ug/mL	
							2-Methylphenol	8 ug/mL	
							2-Nitroaniline	8 ug/mL	
							2-Nitrophenol	8 ug/mL	

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-2

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							3 & 4 Methylphenol	8 ug/mL
							3-Nitroaniline	8 ug/mL
							4,6-Dinitro-2-methylphenol	16 ug/mL
							4-Bromophenyl phenyl ether	8 ug/mL
							4-Chloro-3-methylphenol	8 ug/mL
							4-Chloroaniline	8 ug/mL
							4-Chlorophenyl phenyl ether	8 ug/mL
							4-Nitroaniline	8 ug/mL
							4-Nitrophenol	16 ug/mL
							Acenaphthene	8 ug/mL
							Acenaphthylene	8 ug/mL
							Acetophenone	8 ug/mL
							Aniline	8 ug/mL
							Anthracene	8 ug/mL
							Benzo[a]anthracene	8 ug/mL
							Benzo[a]pyrene	8 ug/mL
							Benzo[b]fluoranthene	8 ug/mL
							Benzo[g,h,i]perylene	8 ug/mL
							Benzo[k]fluoranthene	8 ug/mL
							Benzyl alcohol	8 ug/mL
							Bis (2-chloroethoxy)methane	8 ug/mL
							Bis (2-chloroethyl) ether	8 ug/mL
							Bis (2-ethylhexyl) phthalate	8 ug/mL
							Butyl benzyl phthalate	8 ug/mL
							Carbazole	8 ug/mL
							Chrysene	8 ug/mL
							Di-n-butyl phthalate	8 ug/mL
							Di-n-octyl phthalate	8 ug/mL
							Dibenz (a,h) anthracene	8 ug/mL
							Dibenzofuran	8 ug/mL
							Diethyl phthalate	8 ug/mL
							Dimethyl phthalate	8 ug/mL
							Diphenylamine	6.8 ug/mL
							Fluoranthene	8 ug/mL
							Fluorene	8 ug/mL
							Hexachlorobenzene	8 ug/mL
							Hexachlorobutadiene	8 ug/mL
							Hexachlorocyclopentadiene	8 ug/mL
							Hexachloroethane	8 ug/mL
							Hexadecane	8 ug/mL
							Indeno[1,2,3-cd]pyrene	8 ug/mL
							Isophorone	8 ug/mL
							n-Decane	8 ug/mL
							N-Nitrosodi-n-propylamine	8 ug/mL
							N-Nitrosodimethylamine	8 ug/mL
							N-Nitrosodiphenylamine	8 ug/mL
							n-Octadecane	8 ug/mL
							Naphthalene	8 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-2

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Nitrobenzene	8 ug/mL
							Pentachlorophenol	16 ug/mL
							Phenanthrene	8 ug/mL
							Phenol	8 ug/mL
							Pyrene	8 ug/mL
							Pyridine	16 ug/mL
							Benzoic acid	16 ug/mL
							Indene	16 ug/mL
							3,3'-Dichlorobenzidine	8 ug/mL
							Benzidine	8 ug/mL
					SMSURR5uLWKG_00078	100 uL	2,4,6-Tribromophenol	8 ug/mL
							2-Fluorobiphenyl (Surr)	8 ug/mL
							2-Fluorophenol	8 ug/mL
							Nitrobenzene-d5 (Surr)	8 ug/mL
							Phenol-d5	8 ug/mL
							Terphenyl-d14 (Surr)	8 ug/mL
.SM_HIVOLISTD_00219	01/11/19	07/11/18	Methylene Chloride, Lot 200432	4000 uL	SMISTDWORK_00367	1600 uL	1,4-Dichlorobenzene-d4	320 ug/mL
							Acenaphthene-d10	320 ug/mL
							Chrysene-d12	320 ug/mL
							Naphthalene-d8	320 ug/mL
							Perylene-d12	320 ug/mL
							Phenanthrene-d10	320 ug/mL
..SMISTDWORK_00367	01/11/19	07/11/18	Methylene Chloride, Lot 200432	4000 uL	SMISTD_WK_00046	1600 ug/Wipe	1,4-Dichlorobenzene-d4	800 ug/mL
							Acenaphthene-d10	800 ug/mL
							Chrysene-d12	800 ug/mL
							Naphthalene-d8	800 ug/mL
							Perylene-d12	800 ug/mL
							Phenanthrene-d10	800 ug/mL
...SMISTD_WK_00046	07/11/19	07/11/18	n/a, Lot n/a	5000 uL	SMISTD_ST_00015	5000 uL	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
....SMISTD_ST_00015	08/31/22		RESTEK, Lot A0129635			(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
.SMLST_1_3W5uL_00010	09/30/18	07/16/18	Methylene Chloride, Lot 200432	1000 uL	SMLST_1_3W200_00004	200 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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-2

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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 & 4 Methylphenol	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-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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-2

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Di-n-octyl phthalate	40 ug/mL
							Dibenz(a,h)anthracene	40 ug/mL
							Dibenzofuran	40 ug/mL
							Diethyl phthalate	40 ug/mL
							Dimethyl phthalate	40 ug/mL
							Diphenylamine	34 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	40 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	80 ug/mL
							Benzoic acid	80 ug/mL
							Indene	80 ug/mL
							3,3'-Dichlorobenzidine	40 ug/mL
							Benidine	40 ug/mL
..SMLST_1_3W200_00004	09/30/18	06/06/18	Methylene Chloride, Lot 198794	1000 uL	SMCaLs1S1_WK_00010	200 uL	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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-2

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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-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
							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
							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
							Diphenylamine	170 ug/mL
							Fluoranthene	200 ug/mL
							Fluorene	200 ug/mL
							Hexachlorobenzene	200 ug/mL
							Hexachlorobutadiene	200 ug/mL
							Hexachlorocyclopentadiene	200 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-2

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Hexachloroethane	200 ug/mL
							Hexadecane	200 ug/mL
							Indeno[1,2,3-cd]pyrene	200 ug/mL
							Isophorone	200 ug/mL
							n-Decane	200 ug/mL
							N-Nitrosodi-n-propylamine	200 ug/mL
							N-Nitrosodimethylamine	200 ug/mL
							N-Nitrosodiphenylamine	200 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	400 ug/mL
					SMcaLs1S10_WK_00005	200 uL	Benzoic acid	400 ug/mL
							Indene	400 ug/mL
					SMcaLs1S9_WK_00007	100 uL	3,3'-Dichlorobenzidine	200 ug/mL
							Benzidine	200 ug/mL
...SMcaLs1S1_WK_00010	09/30/18	12/29/17	n/a, Lot n/a	5000 uL	SMcaLs1S1_ST_00008	5000 uL	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 & 4 Methylphenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-2

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	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							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
							Diphenylamine	850 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	1000 ug/mL
							n-Octadecane	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-2

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	2000 ug/mL
....SMcaLs1S1_ST_00008	09/30/18		RESTEK, Lot A0125805			(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 & 4 Methylphenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-2

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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
							Diphenylamine	850 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	1000 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	2000 ug/mL
...SMcaLs1S10_WK_00005	09/30/18	12/29/17	na, Lot na	5000 uL	SMcaLs1S10_ST_00005	5000 uL	Benzoic acid	2000 ug/mL
....SMcaLs1S10_ST_00005	03/31/19		RESTEK, Lot A0130477				Indene	2000 ug/mL
							Benzoic acid	2000 ug/mL
							Indene	2000 ug/mL
...SMcaLs1S9_WK_00007	09/30/18	12/29/17	Methylene Chloride, Lot na	5000 uL	SMcaLs1S9_ST_00005	5000 uL	3,3'-Dichlorobenzidine	2000 ug/mL
							Benzidine	2000 ug/mL
....SMcaLs1S9_ST_00005	11/30/18		RESTEK, Lot A0127472				3,3'-Dichlorobenzidine	2000 ug/mL
							Benzidine	2000 ug/mL
.SMSURR5uLWKG_00078	09/30/18	07/16/18	Methylene Chloride, Lot 200432	1000 uL	SMSURRWORK_00121	200 uL	2,4,6-Tribromophenol	40 ug/mL
							2-Fluorobiphenyl (Surr)	40 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-2

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Fluorophenol	40 ug/mL
							Nitrobenzene-d5 (Surr)	40 ug/mL
							Phenol-d5	40 ug/mL
							Terphenyl-d14 (Surr)	40 ug/mL
..SMSURRWORK_00121	09/30/18	06/07/18	Methylene Chloride, Lot 198794	1000 uL	SMSURROG_2WK_00032	400 uL	2,4,6-Tribromophenol	200 ug/mL
							2-Fluorobiphenyl (Surr)	200 ug/mL
							2-Fluorophenol	200 ug/mL
							Nitrobenzene-d5 (Surr)	200 ug/mL
							Phenol-d5	200 ug/mL
							Terphenyl-d14 (Surr)	200 ug/mL
...SMSURROG_2WK_00032	09/30/18	04/12/18	Methylene Chloride, Lot 188082	1000 uL	SMSURROGAT_WK_00009	100 uL	2,4,6-Tribromophenol	500 ug/mL
							2-Fluorobiphenyl (Surr)	500 ug/mL
							2-Fluorophenol	500 ug/mL
							Nitrobenzene-d5 (Surr)	500 ug/mL
							Phenol-d5	500 ug/mL
							Terphenyl-d14 (Surr)	500 ug/mL
....SMSURROGAT_WK_00009	09/30/18	12/29/17	n/a, Lot n/a	5000 uL	SMSURROGAT_ST_00011	5000 uL	2,4,6-Tribromophenol	5000 ug/mL
							2-Fluorobiphenyl (Surr)	5000 ug/mL
							2-Fluorophenol	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL
.....SMSURROGAT_ST_00011	09/30/22		RESTEK, Lot A0130500			(Purchased Reagent)	2,4,6-Tribromophenol	5000 ug/mL
							2-Fluorobiphenyl (Surr)	5000 ug/mL
							2-Fluorophenol	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL
SM1st1_5uLL8x_00153	09/30/18	07/23/18	Methylene Chloride, Lot 200432	500 uL	SM_HIVOLISTD_00219	5 uL	1,4-Dichlorobenzene-d4	3.2 ug/mL
							Acenaphthene-d10	3.2 ug/mL
							Chrysene-d12	3.2 ug/mL
							Naphthalene-d8	3.2 ug/mL
							Perylene-d12	3.2 ug/mL
							Phenanthrene-d10	3.2 ug/mL
.SM_HIVOLISTD_00219	01/11/19	07/11/18	Methylene Chloride, Lot 200432	4000 uL	SMISTDWORK_00367	1600 uL	1,4-Dichlorobenzene-d4	320 ug/mL
							Acenaphthene-d10	320 ug/mL
							Chrysene-d12	320 ug/mL
							Naphthalene-d8	320 ug/mL
							Perylene-d12	320 ug/mL
							Phenanthrene-d10	320 ug/mL
..SMISTDWORK_00367	01/11/19	07/11/18	Methylene Chloride, Lot 200432	4000 uL	SMISTD_WK_00046	1600 ug/Wipe	1,4-Dichlorobenzene-d4	800 ug/mL
							Acenaphthene-d10	800 ug/mL
							Chrysene-d12	800 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-2

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Naphthalene-d8	800 ug/mL
							Perylene-d12	800 ug/mL
							Phenanthrene-d10	800 ug/mL
...SMISTD_WK_00046	07/11/19	07/11/18	n/a, Lot n/a	5000 uL	SMISTD_ST_00015	5000 uL	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
....SMISTD_ST_00015	08/31/22		RESTEK, Lot A0129635			(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
SMLst1_5uL8x_00153	09/30/18	07/23/18	Methylene Chloride, Lot 200432	500 uL	SMLST_1_3W5uL_00010	100 uL	1-Methylnaphthalene	8 ug/mL
							2-Methylnaphthalene	8 ug/mL
							Acenaphthene	8 ug/mL
							Acenaphthylene	8 ug/mL
							Anthracene	8 ug/mL
							Benzo[a]anthracene	8 ug/mL
							Benzo[a]pyrene	8 ug/mL
							Benzo[b]fluoranthene	8 ug/mL
							Benzo[g,h,i]perylene	8 ug/mL
							Benzo[k]fluoranthene	8 ug/mL
							Chrysene	8 ug/mL
							Dibenz(a,h)anthracene	8 ug/mL
							Fluoranthene	8 ug/mL
							Fluorene	8 ug/mL
							Indeno[1,2,3-cd]pyrene	8 ug/mL
							Naphthalene	8 ug/mL
							Phenanthrene	8 ug/mL
							Pyrene	8 ug/mL
					SMSURR5uLWKG_00078	100 uL	2,4,6-Tribromophenol	8 ug/mL
							2-Fluorobiphenyl (Surr)	8 ug/mL
							2-Fluorophenol	8 ug/mL
							Nitrobenzene-d5 (Surr)	8 ug/mL
							Phenol-d5	8 ug/mL
							Terphenyl-d14 (Surr)	8 ug/mL
.SMLST_1_3W5uL_00010	09/30/18	07/16/18	Methylene Chloride, Lot 200432	1000 uL	SMLST_1_3W200_00004	200 uL	1-Methylnaphthalene	40 ug/mL
							2-Methylnaphthalene	40 ug/mL
							Acenaphthene	40 ug/mL
							Acenaphthylene	40 ug/mL
							Anthracene	40 ug/mL
							Benzo[a]anthracene	40 ug/mL
							Benzo[a]pyrene	40 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-2

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzo[b]fluoranthene	40 ug/mL
							Benzo[g,h,i]perylene	40 ug/mL
							Benzo[k]fluoranthene	40 ug/mL
							Chrysene	40 ug/mL
							Dibenz(a,h)anthracene	40 ug/mL
							Fluoranthene	40 ug/mL
							Fluorene	40 ug/mL
							Indeno[1,2,3-cd]pyrene	40 ug/mL
							Naphthalene	40 ug/mL
							Phenanthrene	40 ug/mL
							Pyrene	40 ug/mL
..SMLST_1_3W200_00004	09/30/18	06/06/18	Methylene Chloride, Lot 198794	1000 uL	SMcaLs1S1_WK_00010	200 uL	1-Methylnaphthalene	200 ug/mL
							2-Methylnaphthalene	200 ug/mL
							Acenaphthene	200 ug/mL
							Acenaphthylene	200 ug/mL
							Anthracene	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
							Chrysene	200 ug/mL
							Dibenz(a,h)anthracene	200 ug/mL
							Fluoranthene	200 ug/mL
							Fluorene	200 ug/mL
							Indeno[1,2,3-cd]pyrene	200 ug/mL
							Naphthalene	200 ug/mL
							Phenanthrene	200 ug/mL
							Pyrene	200 ug/mL
...SMcaLs1S1_WK_00010	09/30/18	12/29/17	n/a, Lot n/a	5000 uL	SMcaLs1S1_ST_00008	5000 uL	1-Methylnaphthalene	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Anthracene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Chrysene	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Naphthalene	1000 ug/mL
							Phenanthrene	1000 ug/mL
							Pyrene	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-2

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
....SMcaLs1S1_ST_00008	09/30/18		RESTEK, Lot A0125805			(Purchased Reagent)	1-Methylnaphthalene	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Anthracene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Chrysene	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
Naphthalene	1000 ug/mL							
Phenanthrene	1000 ug/mL							
Pyrene	1000 ug/mL							
.SMSURR5uLWKG_00078	09/30/18	07/16/18	Methylene Chloride, Lot 200432	1000 uL	SMSURRWORK_00121	200 uL	2,4,6-Tribromophenol	40 ug/mL
							2-Fluorobiphenyl (Surr)	40 ug/mL
							2-Fluorophenol	40 ug/mL
							Nitrobenzene-d5 (Surr)	40 ug/mL
							Phenol-d5	40 ug/mL
Terphenyl-d14 (Surr)	40 ug/mL							
..SMSURRWORK_00121	09/30/18	06/07/18	Methylene Chloride, Lot 198794	1000 uL	SMSURROG_2WK_00032	400 uL	2,4,6-Tribromophenol	200 ug/mL
							2-Fluorobiphenyl (Surr)	200 ug/mL
							2-Fluorophenol	200 ug/mL
							Nitrobenzene-d5 (Surr)	200 ug/mL
							Phenol-d5	200 ug/mL
Terphenyl-d14 (Surr)	200 ug/mL							
...SMSURROG_2WK_00032	09/30/18	04/12/18	Methylene Chloride, Lot 188082	1000 uL	SMSURROGAT_WK_00009	100 uL	2,4,6-Tribromophenol	500 ug/mL
							2-Fluorobiphenyl (Surr)	500 ug/mL
							2-Fluorophenol	500 ug/mL
							Nitrobenzene-d5 (Surr)	500 ug/mL
							Phenol-d5	500 ug/mL
Terphenyl-d14 (Surr)	500 ug/mL							
....SMSURROGAT_WK_00009	09/30/18	12/29/17	n/a, Lot n/a	5000 uL	SMSURROGAT_ST_00011	5000 uL	2,4,6-Tribromophenol	5000 ug/mL
							2-Fluorobiphenyl (Surr)	5000 ug/mL
							2-Fluorophenol	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5	5000 ug/mL
Terphenyl-d14 (Surr)	5000 ug/mL							
.....SMSURROGAT_ST_00011	09/30/22		RESTEK, Lot A0130500			(Purchased Reagent)	2,4,6-Tribromophenol	5000 ug/mL
							2-Fluorobiphenyl (Surr)	5000 ug/mL
							2-Fluorophenol	5000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-2

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL
SMLst1_5uLL9_00042	09/30/18	07/18/18	Methylene Chloride, Lot 200432	500 uL	SM_HIVOLISTD_00219	5 uL	1,4-Dichlorobenzene-d4	3.2 ug/mL
							Acenaphthene-d10	3.2 ug/mL
							Chrysene-d12	3.2 ug/mL
							Naphthalene-d8	3.2 ug/mL
							Perylene-d12	3.2 ug/mL
							Phenanthrene-d10	3.2 ug/mL
					SMLST_1_3W5uL_00010	125 uL	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
							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 & 4 Methylphenol	10 ug/mL
							3-Nitroaniline	10 ug/mL
							4,6-Dinitro-2-methylphenol	20 ug/mL
							4-Bromophenyl phenyl ether	10 ug/mL
							4-Chloro-3-methylphenol	10 ug/mL
							4-Chloroaniline	10 ug/mL
							4-Chlorophenyl phenyl ether	10 ug/mL
							4-Nitroaniline	10 ug/mL
							4-Nitrophenol	20 ug/mL
							Acenaphthene	10 ug/mL
							Acenaphthylene	10 ug/mL
		Acetophenone	10 ug/mL					

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-2

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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
							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
							Diphenylamine	8.5 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	10 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	20 ug/mL
							Benzoic acid	20 ug/mL
							Indene	20 ug/mL
							3,3'-Dichlorobenzidine	10 ug/mL
							Benzidine	10 ug/mL
					SMSURR5uLWKG_00078	125 uL	2,4,6-Tribromophenol	10 ug/mL
							2-Fluorobiphenyl (Surr)	10 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-2

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Fluorophenol	10 ug/mL
							Nitrobenzene-d5 (Surr)	10 ug/mL
							Phenol-d5	10 ug/mL
							Terphenyl-d14 (Surr)	10 ug/mL
.SM_HIVOLISTD_00219	01/11/19	07/11/18	Methylene Chloride, Lot 200432	4000 uL	SMISTDWORK_00367	1600 uL	1,4-Dichlorobenzene-d4	320 ug/mL
							Acenaphthene-d10	320 ug/mL
							Chrysene-d12	320 ug/mL
							Naphthalene-d8	320 ug/mL
							Perylene-d12	320 ug/mL
							Phenanthrene-d10	320 ug/mL
..SMISTDWORK_00367	01/11/19	07/11/18	Methylene Chloride, Lot 200432	4000 uL	SMISTD_WK_00046	1600 ug/Wipe	1,4-Dichlorobenzene-d4	800 ug/mL
							Acenaphthene-d10	800 ug/mL
							Chrysene-d12	800 ug/mL
							Naphthalene-d8	800 ug/mL
							Perylene-d12	800 ug/mL
							Phenanthrene-d10	800 ug/mL
...SMISTD_WK_00046	07/11/19	07/11/18	n/a, Lot n/a	5000 uL	SMISTD_ST_00015	5000 uL	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
....SMISTD_ST_00015	08/31/22		RESTEK, Lot A0129635			(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
.SMLST_1_3W5uL_00010	09/30/18	07/16/18	Methylene Chloride, Lot 200432	1000 uL	SMLST_1_3W200_00004	200 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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-2

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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 & 4 Methylphenol	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-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
							Diphenylamine	34 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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-2

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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	40 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	80 ug/mL
							Benzoic acid	80 ug/mL
							Indene	80 ug/mL
							3,3'-Dichlorobenzidine	40 ug/mL
							Benzidine	40 ug/mL
..SMLST_1_3W200_00004	09/30/18	06/06/18	Methylene Chloride, Lot 198794	1000 uL	SMcaLs1S1_WK_00010	200 uL	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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-2

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4,6-Dinitro-2-methylphenol	400 ug/mL
							4-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-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
							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
							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
							Diphenylamine	170 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
							n-Decane	200 ug/mL
							N-Nitrosodi-n-propylamine	200 ug/mL
							N-Nitrosodimethylamine	200 ug/mL
							N-Nitrosodiphenylamine	200 ug/mL
							n-Octadecane	200 ug/mL
							Naphthalene	200 ug/mL
							Nitrobenzene	200 ug/mL
							Pentachlorophenol	400 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-2

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Phenanthrene	200 ug/mL
							Phenol	200 ug/mL
							Pyrene	200 ug/mL
							Pyridine	400 ug/mL
					SMcaLs1S10_WK_00005	200 uL	Benzoic acid	400 ug/mL
							Indene	400 ug/mL
					SMcaLs1S9_WK_00007	100 uL	3,3'-Dichlorobenzidine	200 ug/mL
							Benzidine	200 ug/mL
...SMcaLs1S1_WK_00010	09/30/18	12/29/17	n/a, Lot n/a	5000 uL	SMcaLs1S1_ST_00008	5000 uL	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 & 4 Methylphenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-2

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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
							Diphenylamine	850 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	1000 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	2000 ug/mL
....SMcaLs1S1_ST_00008	09/30/18		RESTEK, Lot A0125805			(Purchased Reagent)	1,1'-Biphenyl	1000 ug/mL
							1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-2

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,4-Dioxane	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2,2'-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-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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago

Job No.: 500-150867-2

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Diphenylamine	850 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	1000 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	2000 ug/mL
...SMcaLs1S10_WK_00005	09/30/18	12/29/17	na, Lot na	5000 uL	SMcaLs1S10_ST_00005	5000 uL	Benzoic acid	2000 ug/mL
							Indene	2000 ug/mL
....SMcaLs1S10_ST_00005	03/31/19		RESTEK, Lot A0130477		(Purchased Reagent)		Benzoic acid	2000 ug/mL
							Indene	2000 ug/mL
...SMcaLs1S9_WK_00007	09/30/18	12/29/17	Methylene Chloride, Lot na	5000 uL	SMcaLs1S9_ST_00005	5000 uL	3,3'-Dichlorobenzidine	2000 ug/mL
							Benzidine	2000 ug/mL
....SMcaLs1S9_ST_00005	11/30/18		RESTEK, Lot A0127472		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Benzidine	2000 ug/mL
.SMSURR5uLWKG_00078	09/30/18	07/16/18	Methylene Chloride, Lot 200432	1000 uL	SMSURRWORK_00121	200 uL	2,4,6-Tribromophenol	40 ug/mL
							2-Fluorobiphenyl (Surr)	40 ug/mL
							2-Fluorophenol	40 ug/mL
							Nitrobenzene-d5 (Surr)	40 ug/mL
							Phenol-d5	40 ug/mL
							Terphenyl-d14 (Surr)	40 ug/mL
..SMSURRWORK_00121	09/30/18	06/07/18	Methylene Chloride, Lot 198794	1000 uL	SMSURROG_2WK_00032	400 uL	2,4,6-Tribromophenol	200 ug/mL
							2-Fluorobiphenyl (Surr)	200 ug/mL
							2-Fluorophenol	200 ug/mL
							Nitrobenzene-d5 (Surr)	200 ug/mL
							Phenol-d5	200 ug/mL
							Terphenyl-d14 (Surr)	200 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-150867-2

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
...SMSURROG_2WK_00032	09/30/18	04/12/18	Methylene Chloride, Lot 188082	1000 uL	SMSURROGAT_WK_00009	100 uL	2,4,6-Tribromophenol	500 ug/mL
							2-Fluorobiphenyl (Surr)	500 ug/mL
							2-Fluorophenol	500 ug/mL
							Nitrobenzene-d5 (Surr)	500 ug/mL
							Phenol-d5	500 ug/mL
							Terphenyl-d14 (Surr)	500 ug/mL
....SMSURROGAT_WK_00009	09/30/18	12/29/17	n/a, Lot n/a	5000 uL	SMSURROGAT_ST_00011	5000 uL	2,4,6-Tribromophenol	5000 ug/mL
							2-Fluorobiphenyl (Surr)	5000 ug/mL
							2-Fluorophenol	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL
.....SMSURROGAT_ST_00011	09/30/22		RESTEK, Lot A0130500		(Purchased Reagent)		2,4,6-Tribromophenol	5000 ug/mL
							2-Fluorobiphenyl (Surr)	5000 ug/mL
							2-Fluorophenol	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL

Reagent

IS 8000 STK_00004



CERTIFIED REFERENCE MATERIAL

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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.

Sx1 mL

Catalog No. : 32279 Lot No.: A0127264

Description : 1-Bromo-2-nitrobenzene Standard
1-Bromo-2-nitrobenzene Standard 1000 µg/mL, Acetone, 1mL/ampul

Container Size : 2 mL Pkg Amt: > 1 mL

Expiration Date : August 31, 2020 Storage: 10°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	1-Bromo-2-nitrobenzene CAS # 577-19-5 (Lot 643872/1) Purity 99%	1,004.0 µg/mL	+/- 5.9635 µg/mL Gravimetric +/- 56.3065 µg/mL Unstressed +/- 57.6234 µg/mL Stressed

Solvent: Acetone
CAS # 67-64-1
Purity 99%



4441097
ID: IS 8000 STK_00004
Desc: 1-Bromo-2-nitrobenzene
Exp: 8/31/2020 Prpd/Rcvd: 9/14/2017
Sol: Prpd: gibsonp
1-Bromo-2-nitrobenzene

Reagent

PCBAR12211254_00004



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Catalog No. : 569745 **Lot No.:** A0131802

Description : PCB-1221/1254 Standard
PCB-1221/1254 Standard 1,000µg/mL, Hexane, 1mL/ampul

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

Expiration Date : January 31, 2024 **Storage:** 25°C nominal

Handling: This product contains PCBs.

CERTIFIED VALUES

Solution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)			
			+/-	µg/mL	µg/mL	Gravimetric
1	Aroclor 1221	1,006.0 µg/mL	+/-	5.9753	µg/mL	Gravimetric
	CAS # 11104-28-2 (Lot 2781200)		+/-	31.8975	µg/mL	Unstressed
	Purity ----%		+/-	41.6615	µg/mL	Stressed
2	Aroclor 1254	1,002.0 µg/mL	+/-	5.9516	µg/mL	Gravimetric
	CAS # 11097-69-1 (Lot 124-191-B)		+/-	31.7706	µg/mL	Unstressed
	Purity ----%		+/-	41.4958	µg/mL	Stressed

Solvent: Hexane
CAS # 110-54-3
Purity 99%



4621331
ID: PCBAR12211254_00004
Desc: AR1221/AR1254 STOCK
Exp: 1/31/2024 Prpd/Rcvd: 1/26/2018
Sol: Prpd: gibsonp
AR1221/AR1254 STOCK

Reagent

PCBAR12321262_00002



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36

Catalog No. : 569746 Lot No.: A0125033

Description : PCB-1232/1262 Standard
PCB-1232/1262 Standard 1000 µg/ml, Hexane, 1 ml/ampul

Container Size : 2 mL Pkg Amt: > 1 mL

Expiration Date : May 31, 2023 Storage: 25°C nominal

Handling: This product contains PCBs.

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	Aroclor 1232	1,002.0 µg/mL	+/- 5.9516 µg/mL Gravimetric
	CAS # 11141-16-5 (Lot W-107-05)		+/- 31.7706 µg/mL Unstressed
	Purity ----%		+/- 41.4958 µg/mL Stressed
2	Aroclor 1262	1,000.0 µg/mL	+/- 5.9397 µg/mL Gravimetric
	CAS # 37324-23-5 (Lot 3067100)		+/- 31.7072 µg/mL Unstressed
	Purity ----%		+/- 41.4130 µg/mL Stressed

Solvent: Hexane
CAS # 110-54-3
Purity 99%



4441167
ID: PCBAR12321262_00002
Desc: AR1232/AR1262 STOCK
Exp: 5/31/2023 Prpd/Rcvd: 9/14/2017
Sol: Prpd: gibsonp
AR1232/AR1262 STOCK

Reagent

PCBAR12421268_00002



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21

2x1 mL

Catalog No. : 569747 Lot No.: A0125041

Description : PCB-1242/1268 Standard
PCB-1242/1268 Standard 1000 µg/ml, Hexane, 1 ml/ampul

Container Size : 2 mL Pkg Amt: > 1 mL

Expiration Date : May 31, 2023 Storage: 25°C nominal

Handling: This product contains PCBs.

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)			
1	Aroclor 1242	1,008.0 µg/mL	+/-	5.9872	µg/mL	Gravimetric
	CAS # 53469-21-9 (Lot 01141-A)		+/-	31.9609	µg/mL	Unstressed
	Purity ----%		+/-	41.7443	µg/mL	Stressed
2	Aroclor 1268	1,000.0 µg/mL	+/-	5.9397	µg/mL	Gravimetric
	CAS # 11100-14-4 (Lot 2743900)		+/-	31.7072	µg/mL	Unstressed
	Purity ----%		+/-	41.4130	µg/mL	Stressed

Solvent: Hexane
CAS # 110-54-3
Purity 99%



4441158
ID: PCBAR12421268 00002
Desc: AR1242/AR1268 STOCK
Exp: 5/30/2023 Prpd/Rcvd: 9/14/2017
Sol: Prpd: gibsonp
AR1242/AR1268 STOCK

Reagent

PCBAR1248_00012



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2X/mL
05

Catalog No. : 32010 Lot No.: A0121842

Description : Aroclor® 1248 Standard
Aroclor® 1248 Standard 1,000µg/mL, Hexane, 1mL/ampul

Container Size : 2 mL Pkg Amt: > 1 mL

Expiration Date : December 31, 2022 Storage: 25°C nominal

Handling: This product contains PCBs.

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Aroclor 1248 CAS # 12672-29-6 (Lot 07) Purity ----%	996.8 µg/mL	+/- 5.8498	µg/mL	Gravimetric
			+/- 31.5925	µg/mL	Unstressed
			+/- 41.2704	µg/mL	Stressed

Solvent: Hexane
CAS # 110-54-3
Purity 99%



4441157
ID: PCBAR1248 00012
Desc: AR1248 STOCK
Exp: 12/31/2022 Prpd/Rcvd: 9/14/2017
Sol: Prpd: gibsonp
AR1248 STOCK

Reagent

TCX/DCBSTK_00017



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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.

10x1mL
618

Catalog No. : 32000 **Lot No.:** A0125833

Description : Pesticide Surrogate Mix
Pesticide Surrogate Mix 200 µg/mL, Acetone, 1mL/ampul

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

Expiration Date : June 30, 2023 **Storage:** 10°C or colder

Handling: Contains PCBs - sonicate prior to use.

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)			
1	2,4,5,6-Tetrachloro-m-xylene	201.5 µg/mL	+/-	1.1742	µg/mL	Gravimetric
	CAS # 877-09-8 (Lot 0052481)		+/-	6.3844	µg/mL	Unstressed
	Purity 98%		+/-	8.3410	µg/mL	Stressed
2	Decachlorobiphenyl (BZ# 209)	201.9 µg/mL	+/-	1.1766	µg/mL	Gravimetric
	CAS # 2051-24-3 (Lot ER071509-01)		+/-	6.3975	µg/mL	Unstressed
	Purity 99%		+/-	8.3581	µg/mL	Stressed

Solvent: Acetone
CAS # 67-64-1
Purity 99%



4441125
ID: TCX/DCBSTK_00017
Desc: TCX/DCB STOCK
Exp: 6/30/2022 Prpd/Rcvd: 9/14/2017
Sol: Prpd: gibsonp
TCX/DCB STOCK

Method 8270D

Semivolatile Organic Compounds
(GC/MS) by Method 8270D

FORM II
GC/MS SEMI VOA SURROGATE RECOVERY

Lab Name: TestAmerica Chicago Job No.: 500-150867-2

SDG No.: _____

Matrix: Solid (ASTM Leach) Level: Low

GC Column (1): ZB5MS ID: 0.25 (mm)

Client Sample ID	Lab Sample ID	NBZ #	FBP #	TPHL #
Leachate Solids	500-150867-5	95	88	104
	MB 500-448405/1-A	95	80	109
	LB3 500-448263/1-C	89	77	99
	LCS 500-448405/2-A	93	92	98

NBZ = Nitrobenzene-d5 (Surr)
FBP = 2-Fluorobiphenyl (Surr)
TPHL = Terphenyl-d14 (Surr)

QC LIMITS
36-120
34-110
40-145

Column to be used to flag recovery values

FORM II 8270D

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Chicago Job No.: 500-150867-2
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: LCS 500-448405.D
 Lab ID: LCS 500-448405/2-A Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Acenaphthene	40.0	37.5	94	46-110	
Acenaphthylene	40.0	38.5	96	47-110	
Anthracene	40.0	38.9	97	67-110	
Benzo[a]anthracene	40.0	41.4	104	70-120	
Benzo[a]pyrene	40.0	45.4	114	70-120	
Benzo[b]fluoranthene	40.0	46.5	116	69-123	
Benzo[g,h,i]perylene	40.0	33.9	85	70-120	
Benzo[k]fluoranthene	40.0	47.2	118	70-120	
Chrysene	40.0	44.6	111	68-120	
Dibenz(a,h)anthracene	40.0	37.2	93	70-127	
Fluoranthene	40.0	42.3	106	68-120	
Fluorene	40.0	33.9	85	53-120	
Indeno[1,2,3-cd]pyrene	40.0	35.6	89	65-133	
Naphthalene	40.0	33.2	83	36-110	
Phenanthrene	40.0	38.9	97	65-120	
Pyrene	40.0	39.6	99	70-110	
1-Methylnaphthalene	40.0	33.6	84	38-110	
2-Methylnaphthalene	40.0	33.7	84	34-110	

Column to be used to flag recovery and RPD values

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-150867-2
 SDG No.: _____
 Lab File ID: MB 500-448405.D Lab Sample ID: MB 500-448405/1-A
 Matrix: Water Date Extracted: 09/05/2018 09:47
 Instrument ID: CMS12 Date Analyzed: 09/05/2018 17:01
 Level: (Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 500-448405/2-A	LCS 500-448405. D	09/05/2018 14:35
	LB3 500-448263/1-C	LB3 500-448263. D	09/05/2018 16:03
Leachate Solids	500-150867-5	500-150867- A-5-C.D	09/05/2018 18:29

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Chicago Job No.: 500-150867-2
 SDG No.: _____
 Lab File ID: 12D0815D.D DFTPP Injection Date: 08/15/2018
 Instrument ID: CMS12 DFTPP Injection Time: 16:52
 Analysis Batch No.: 445577

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10-80% of Base Peak	35.0
68	Less than 2% of mass 69	0.0 (0.0) 1
69	Mass 69 Relative abundance	32.2
70	Less than 2% of mass 69	0.2 (0.6) 1
127	10-80% of Base Peak	50.0
197	Less than 2% of mass 198	0.0
198	Base peak	100.0
199	5-9% of mass 198	6.8
275	10-60% of Base Peak	28.6
365	Greater than 1% of mass 198	5.3
441	present but less than 24% of mass 442	24.4 (16.0) 2
442	Greater than 50% of mass 198	152.8
443	15-24% of mass 442	29.6 (19.4) 2

1-Value is % mass 69

2-Value is % mass 442

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 500-445577/2	L1STD2.D	08/15/2018	17:27
	IC 500-445577/3	L1STD02.D	08/15/2018	17:57
	IC 500-445577/4	L1STD05.D	08/15/2018	18:27
	IC 500-445577/5	L1STD1.D	08/15/2018	18:56
	IC 500-445577/6	L1STD5.D	08/15/2018	19:26
	IC 500-445577/7	L1STD10.D	08/15/2018	19:55
	IC 500-445577/8	L1STD20.D	08/15/2018	20:25
	ICIS 500-445577/9	L1STD40.D	08/15/2018	20:55
	IC 500-445577/10	L1STD50.D	08/15/2018	21:24
	IC 500-445577/11	L1STD60.D	08/15/2018	21:54
	IC 500-445577/12	L1STD70.D	08/15/2018	22:24
	ICV 500-445577/13	L1ICV.D	08/15/2018	22:53

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Chicago Job No.: 500-150867-2
 SDG No.: _____
 Lab File ID: 12D0905.D DFTPP Injection Date: 09/05/2018
 Instrument ID: CMS12 DFTPP Injection Time: 08:15
 Analysis Batch No.: 448368

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10-80% of Base Peak	30.1
68	Less than 2% of mass 69	0.0 (0.0) 1
69	Mass 69 Relative abundance	28.3
70	Less than 2% of mass 69	0.1 (0.5) 1
127	10-80% of Base Peak	46.3
197	Less than 2% of mass 198	0.0
198	Base peak	100.0
199	5-9% of mass 198	6.8
275	10-60% of Base Peak	31.8
365	Greater than 1% of mass 198	6.0
441	present but less than 24% of mass 442	31.0 (16.2) 2
442	Greater than 50% of mass 198	191.7
443	15-24% of mass 442	36.7 (19.2) 2

1-Value is % mass 69

2-Value is % mass 442

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 500-448368/2	12C0905.D	09/05/2018	08:44
	LCS 500-448405/2-A	LCS 500-448405.D	09/05/2018	14:35
	LB3 500-448263/1-C	LB3 500-448263.D	09/05/2018	16:03
	MB 500-448405/1-A	MB 500-448405.D	09/05/2018	17:01
Leachate Solids	500-150867-5	500-150867-A -5-C.D	09/05/2018	18:29

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

Lab Name: TestAmerica Chicago Job No.: 500-150867-2
 SDG No.: _____
 Sample No.: ICIS 500-445577/9 Date Analyzed: 08/15/2018 20:55
 Instrument ID: CMS12 GC Column: ZB5MS ID: 0.25 (mm)
 Lab File ID (Standard): L1STD40.D Heated Purge: (Y/N) N
 Calibration ID: 29699

	DCBd4		NPT		ANT	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT	125013	6.38	517959	7.44	239205	8.92
UPPER LIMIT	250026	6.88	1035918	7.94	478410	9.42
LOWER LIMIT	62507	5.88	258980	6.94	119603	8.42
LAB SAMPLE ID	CLIENT SAMPLE ID					
ICV 500-445577/13	132581	6.38	522504	7.44	239580	8.92

DCBd4 = 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
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-150867-2
 SDG No.: _____
 Sample No.: ICIS 500-445577/9 Date Analyzed: 08/15/2018 20:55
 Instrument ID: CMS12 GC Column: ZB5MS ID: 0.25 (mm)
 Lab File ID (Standard): L1STD40.D Heated Purge: (Y/N) N
 Calibration ID: 29699

	PHN		CRY		PRY	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT	396184	10.17	377954	13.47	343766	17.13
UPPER LIMIT	792368	10.67	755908	13.97	687532	17.63
LOWER LIMIT	198092	9.67	188977	12.97	171883	16.63
LAB SAMPLE ID	CLIENT SAMPLE ID					
ICV 500-445577/13			396872	10.17	378358	13.47
					335707	17.13

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
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-150867-2
 SDG No.: _____
 Sample No.: CCVIS 500-448368/2 Date Analyzed: 09/05/2018 08:44
 Instrument ID: CMS12 GC Column: ZB5MS ID: 0.25 (mm)
 Lab File ID (Standard): 12C0905.D Heated Purge: (Y/N) N
 Calibration ID: 29699

	DCBd4		NPT		ANT			
	AREA #	RT #	AREA #	RT #	AREA #	RT #		
12/24 HOUR STD	144532	6.26	563129	7.32	263819	8.78		
UPPER LIMIT	289064	6.76	1126258	7.82	527638	9.28		
LOWER LIMIT	72266	5.76	281565	6.82	131910	8.28		
LAB SAMPLE ID	CLIENT SAMPLE ID							
LCS 500-448405/2-A			129082	6.26	496218	7.32	236585	8.78
LB3 500-448263/1-C			112981	6.25	515861	7.31	242659	8.78
MB 500-448405/1-A			114592	6.25	505715	7.31	243373	8.78
500-150867-5	Leachate Solids		121196	6.25	524859	7.31	246709	8.78

DCBd4 = 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
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-150867-2
 SDG No.: _____
 Sample No.: CCVIS 500-448368/2 Date Analyzed: 09/05/2018 08:44
 Instrument ID: CMS12 GC Column: ZB5MS ID: 0.25 (mm)
 Lab File ID (Standard): 12C0905.D Heated Purge: (Y/N) N
 Calibration ID: 29699

	PHN		CRY		PRY		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
12/24 HOUR STD	480815	10.04	510959	13.22	507568	16.70	
UPPER LIMIT	961630	10.54	1021918	13.72	1015136	17.20	
LOWER LIMIT	240408	9.54	255480	12.72	253784	16.20	
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 500-448405/2-A	420543	10.04	464806	13.22	428845	16.70	
LB3 500-448263/1-C	430439	10.03	432972	13.21	466053	16.69	
MB 500-448405/1-A	428688	10.03	422124	13.20	445483	16.68	
500-150867-5	Leachate Solids	442118	10.03	433360	13.20	449840	16.68

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 I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Chicago Job No.: 500-150867-2
 SDG No.: _____
 Client Sample ID: Leachate Solids Lab Sample ID: 500-150867-5
 Matrix: Solid (ASTM Leach) Lab File ID: 500-150867-A-5-C.D
 Analysis Method: 8270D Date Collected: 08/31/2018 15:55
 Extract. Method: 3510C Date Extracted: 09/05/2018 09:47
 Sample wt/vol: 50 (mL) Date Analyzed: 09/05/2018 18:29
 Con. Extract Vol.: 5.0 (mL) Dilution Factor: 1
 Injection Volume: 5 (uL) Level: (low/med) Low
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 448368 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD
83-32-9	Acenaphthene	<7.2		20	7.2
208-96-8	Acenaphthylene	<6.4		20	6.4
120-12-7	Anthracene	<6.4		20	6.4
56-55-3	Benzo[a]anthracene	<0.88		4.0	0.88
50-32-8	Benzo[a]pyrene	<1.1		4.0	1.1
205-99-2	Benzo[b]fluoranthene	<1.2		4.0	1.2
191-24-2	Benzo[g,h,i]perylene	<8.4		20	8.4
207-08-9	Benzo[k]fluoranthene	<1.5		4.0	1.5
218-01-9	Chrysene	<2.8		10	2.8
53-70-3	Dibenz(a,h)anthracene	<1.3		6.0	1.3
206-44-0	Fluoranthene	<6.4		20	6.4
86-73-7	Fluorene	<7.6		20	7.6
193-39-5	Indeno[1,2,3-cd]pyrene	<1.7		4.0	1.7
91-20-3	Naphthalene	22		20	6.0
85-01-8	Phenanthrene	<7.0		20	7.0
129-00-0	Pyrene	<9.6		20	9.6
90-12-0	1-Methylnaphthalene	<10		40	10
91-57-6	2-Methylnaphthalene	<2.6		40	2.6

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5 (Surr)	95		36-120
1718-51-0	Terphenyl-d14 (Surr)	104		40-145
321-60-8	2-Fluorobiphenyl (Surr)	88		34-110

TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS12\20180905-54832.b\500-150867-A-5-C.D
 Lims ID: 500-150867-A-5-C
 Client ID: Leachate Solids
 Sample Type: Client
 Inject. Date: 05-Sep-2018 18:29:30 ALS Bottle#: 21 Worklist Smp#: 33
 Injection Vol: 5.0 ul Dil. Factor: 1.0000
 Sample Info: 500-150867-A-5-C
 Misc. Info.: 500-0054832-033
 Operator ID: AD Instrument ID: CMS12
 Method: \\ChromNA\Chicago\ChromData\CMS12\20180905-54832.b\12-LVI8270.m
 Limit Group: MSBNA_8270D_ICAL
 Method Label: TestAmerica Chicago GC/MS SVOA
 Last Update: 05-Sep-2018 18:22:27 Calib Date: 15-Aug-2018 22:24:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Chicago\ChromData\CMS12\20180815-54379.b\L1STD70.D
 Column 1 : ZB5MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK014

First Level Reviewer: swaneyg Date: 05-Sep-2018 19:39:10

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.254	6.287	-0.033	95	121196	3.20	
* 2 Naphthalene-d8	136	7.310	7.319	-0.009	99	524859	3.20	
* 3 Acenaphthene-d10	164	8.784	8.784	0.000	97	246709	3.20	
* 4 Phenanthrene-d10	188	10.030	10.035	-0.005	99	442118	3.20	
* 5 Chrysene-d12	240	13.202	13.216	-0.014	99	433360	3.20	
* 6 Perylene-d12	264	16.683	16.697	-0.014	98	449840	3.20	
\$ 9 Nitrobenzene-d5	82	6.706	6.725	-0.019	90	209254	4.74	
\$ 10 2-Fluorobiphenyl	172	8.195	8.199	-0.004	99	505213	4.39	
\$ 12 Terphenyl-d14	244	11.576	11.580	-0.004	99	603792	5.21	
56 Naphthalene	128	7.329	7.338	-0.009	99	34608	0.2233	
67 2-Methylnaphthalene	142	7.905	7.909	-0.005	95	1464	0.0136	

Reagents:

SM_HIVOLISTD_00215 Amount Added: 10.00 Units: uL Run Reagent

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS12\20180905-54832.b\500-150867-A-5-C.D

Injection Date: 05-Sep-2018 18:29:30

Instrument ID: CMS12

Operator ID: AD

Lims ID: 500-150867-A-5-C

Lab Sample ID: 500-150867-5

Worklist Smp#: 33

Client ID: Leachate Solids

Injection Vol: 5.0 ul

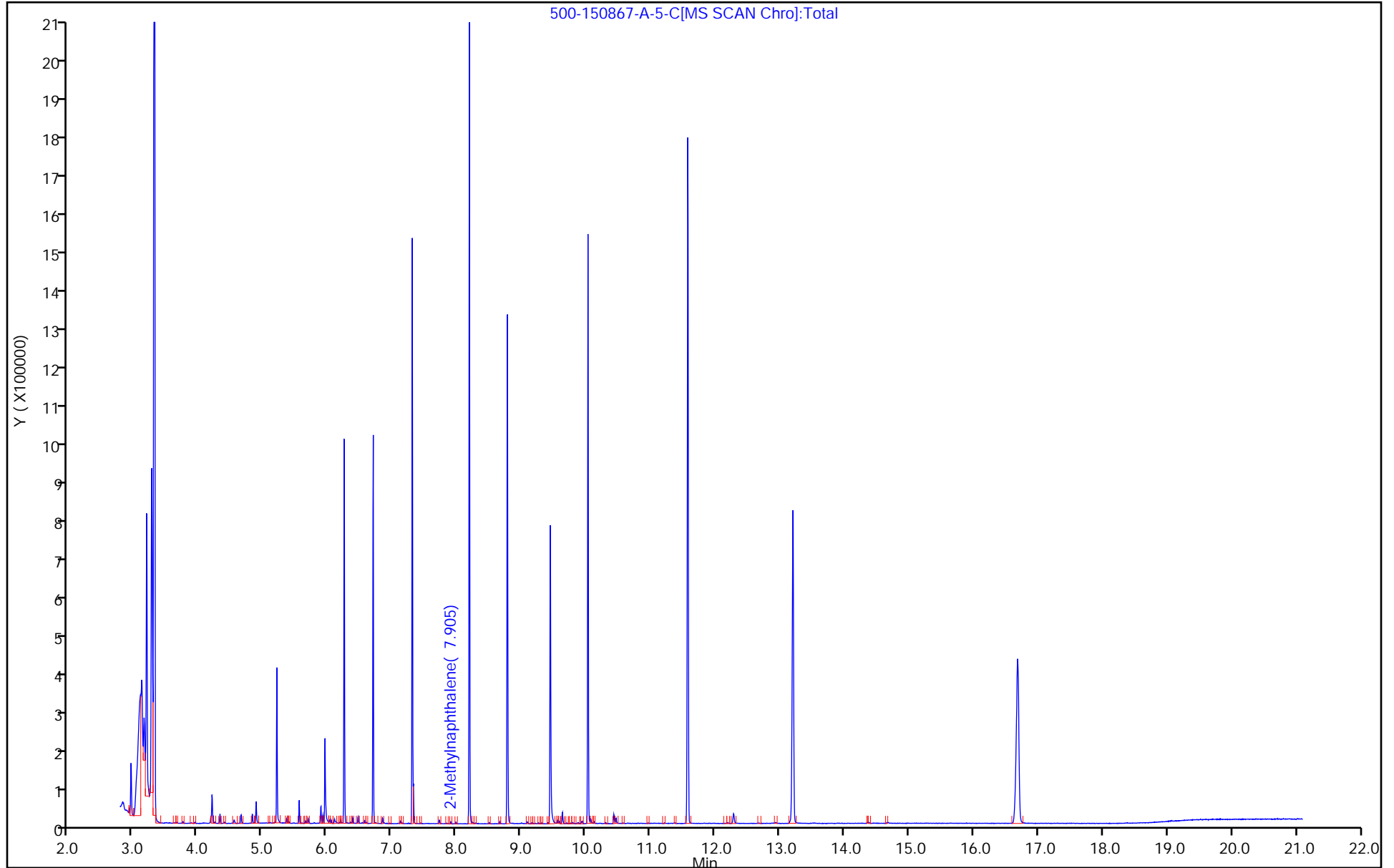
Dil. Factor: 1.0000

ALS Bottle#: 21

Method: 12-LVI8270

Limit Group: MSBNA_8270D_ICAL

Column: ZB5MS (0.25 mm)



TestAmerica Chicago
Recovery Report

Data File: \\ChromNA\Chicago\ChromData\CMS12\20180905-54832.b\500-150867-A-5-C.D
 Lims ID: 500-150867-A-5-C
 Client ID: Leachate Solids
 Sample Type: Client
 Inject. Date: 05-Sep-2018 18:29:30 ALS Bottle#: 21 Worklist Smp#: 33
 Injection Vol: 5.0 ul Dil. Factor: 1.0000
 Sample Info: 500-150867-A-5-C
 Misc. Info.: 500-0054832-033
 Operator ID: AD Instrument ID: CMS12
 Method: \\ChromNA\Chicago\ChromData\CMS12\20180905-54832.b\12-LVI8270.m
 Limit Group: MSBNA_8270D_ICAL
 Method Label: TestAmerica Chicago GC/MS SVOA
 Last Update: 05-Sep-2018 18:22:27 Calib Date: 15-Aug-2018 22:24:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Chicago\ChromData\CMS12\20180815-54379.b\L1STD70.D
 Column 1 : ZB5MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK014

First Level Reviewer: swaneyg Date: 05-Sep-2018 19:39:10

Compound	Amount Added	Amount Recovered	% Rec.
\$ 7 2-Fluorophenol	0.0	0	0.00
\$ 8 Phenol-d5	0.0	0	0.00
\$ 9 Nitrobenzene-d5	5.00	4.74	94.81
\$ 10 2-Fluorobiphenyl	5.00	4.39	87.78
\$ 11 2,4,6-Tribromophenol	0.0	0	0.00
\$ 12 Terphenyl-d14	5.00	5.21	104.14

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS12\20180905-54832.b\500-150867-A-5-C.D

Injection Date: 05-Sep-2018 18:29:30

Instrument ID: CMS12

Lims ID: 500-150867-A-5-C

Lab Sample ID: 500-150867-5

Client ID: Leachate Solids

Operator ID: AD

ALS Bottle#: 21

Worklist Smp#: 33

Injection Vol: 5.0 ul

Dil. Factor: 1.0000

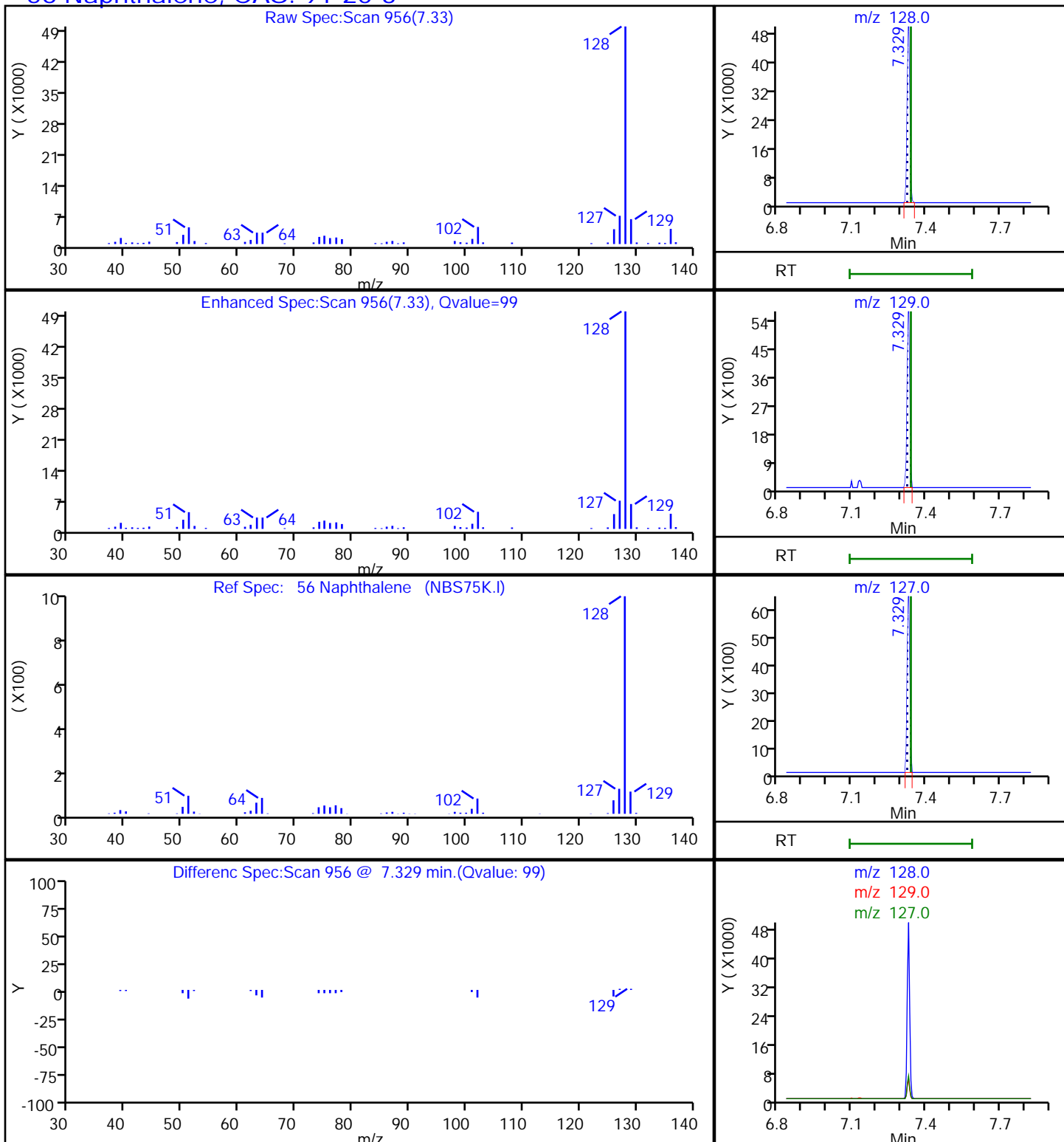
Method: 12-LVI8270

Limit Group: MSBNA_8270D_ICAL

Column: ZB5MS (0.25 mm)

Detector: MS SCAN

56 Naphthalene, CAS: 91-20-3



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

Lab Name: TestAmerica Chicago Job No.: 500-150867-2 Analy Batch No.: 445577

SDG No.: _____

Instrument ID: CMS12 GC Column: ZB5MS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/15/2018 17:27 Calibration End Date: 08/15/2018 22:24 Calibration ID: 29699

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 500-445577/3	L1STD02.D
Level 2	IC 500-445577/4	L1STD05.D
Level 3	IC 500-445577/5	L1STD1.D
Level 4	IC 500-445577/2	L1STD2.D
Level 5	IC 500-445577/6	L1STD5.D
Level 6	IC 500-445577/7	L1STD10.D
Level 7	IC 500-445577/8	L1STD20.D
Level 8	ICIS 500-445577/9	L1STD40.D
Level 9	IC 500-445577/10	L1STD50.D
Level 10	IC 500-445577/11	L1STD60.D
Level 11	IC 500-445577/12	L1STD70.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8	LVL 9	LVL 10												
1,4-Dioxane	0.2385 0.4041	0.2428	0.3091	0.3074	++++ 0.4144	Qua2	0.1589	0.1187	0.0204855		0.0100			0.9930		0.9900	
N-Nitrosodimethylamine	0.9233 0.9325	0.9128	0.9764	0.9215 0.9013	0.9237 1.0045	Ave		0.9370			0.0100	3.7	20.0				
Pyridine	0.6908 1.1976	0.8580	1.1609	1.1531	++++ 1.3104	Lin1	-2.948	1.3394			0.0100			0.9940		0.9900	
Phenol	1.1373 1.5115	1.3143	1.4504	1.3763	1.0301 1.5686	Ave		1.3412			0.8000	14.7	20.0				
Aniline	1.6099 1.7347	1.6007	1.7060	1.6070	1.5287 1.8327	Ave		1.6600			0.0100	6.2	20.0				
Bis(2-chloroethyl)ether	1.1546 1.1342	1.1028	1.1462	1.0502 1.0737	1.1066 1.2061	Ave		1.1218			0.7000	4.4	20.0				
2-Chlorophenol	1.1417 1.5256	1.2440	1.4461	1.4094	1.1057 1.6101	Ave		1.3547			0.8000	14.3	20.0				
n-Decane	1.6964 1.6410	1.6856	1.6812 1.7984	1.6219 1.6663	1.7131 1.9029	Ave		1.7119			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 Chicago Job No.: 500-150867-2 Analy Batch No.: 445577

SDG No.: _____

Instrument ID: CMS12 GC Column: ZB5MS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/15/2018 17:27 Calibration End Date: 08/15/2018 22:24 Calibration ID: 29699

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R ² OR COD	#	MIN R ² OR COD
	LVL 1 LVL 6 LVL 11	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10		B	M1	M2								
1,3-Dichlorobenzene	1.3664 1.7941	1.4202	1.6840	1.3121 1.6421	1.3742 1.8590	Ave		1.5565		0.0100	13.7		20.0				
1,4-Dichlorobenzene	1.3958 1.8139	1.4723	1.7340	1.3771 1.6841	1.3949 1.9375	Ave		1.6012		0.0100	13.7		20.0				
Benzyl alcohol	0.8099 0.8096	0.7700	0.8137	0.7609	0.7451 0.8482	Ave		0.7939		0.0100	4.6		20.0				
1,2-Dichlorobenzene	1.3815 1.7182	1.4373	1.6554	1.2951 1.5936	1.3491 1.8108	Ave		1.5301		0.0100	12.4		20.0				
2-Methylphenol	0.9213 1.0060	0.9111	0.9716	0.7251 0.9246	0.8032 1.0421	Ave		0.9131		0.7000	11.4		20.0				
2,2'-oxybis[1-chloropropane]	2.5540 2.3490	2.3739	2.4474	2.3386 2.2844	2.5336 2.5493	Ave		2.4288		0.0100	4.4		20.0				
Indene	1.9010 1.8452	1.9467	2.0911	1.9158	1.7456 2.0598	Ave		1.9293		0.0100	6.2		20.0				
3 & 4 Methylphenol	1.1734 1.2608	1.1377	1.2426	0.8832 1.1814	0.9884 1.3333	Ave		1.1501		0.6000	12.9		20.0				
N-Nitrosodi-n-propylamine	0.7888 0.7650	0.7532 0.7488	0.6975 0.7994	0.8186 0.7512	0.7972 0.8363	Ave		0.7756		0.5000	5.2		20.0				
Acetophenone	1.7302 1.7818	1.6854	1.3553 1.8445	1.6455 1.7206	1.7226 1.9504	Ave		1.7151		0.0100	9.5		20.0				
Hexachloroethane	0.5814 0.6820	0.5948	0.6727	0.6427	0.5813 0.7341	Ave		0.6413		0.3000	9.1		20.0				
Nitrobenzene	0.2278 0.2862	0.2307	0.2081 0.2673	0.2111 0.2643	0.2284 0.2973	Ave		0.2468		0.2000	13.3		20.0				
Isophorone	0.4077 0.4644	0.4090	0.4560	0.4372 0.4415	0.4365 0.4889	Ave		0.4427		0.4000	6.2		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 Chicago Job No.: 500-150867-2 Analy Batch No.: 445577

SDG No.: _____

Instrument ID: CMS12 GC Column: ZB5MS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/15/2018 17:27 Calibration End Date: 08/15/2018 22:24 Calibration ID: 29699

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8	LVL 9	LVL 10												
2-Nitrophenol	0.1404 0.1999	0.1488	0.1796	0.1804	0.1311 0.2057	Ave		0.1694		0.1000	17.4		20.0				
2,4-Dimethylphenol	0.2468 0.3259	0.2618	0.3099	0.3036	0.2388 0.3415	Ave		0.2898		0.2000	14.0		20.0				
Bis(2-chloroethoxy)methane	0.2939 0.3643	0.3065	0.3465	0.3125 0.3420	0.3054 0.3810	Ave		0.3315		0.3000	9.5		20.0				
Benzoic acid	0.1225 0.1946	0.1405	0.1628	0.1751	0.1018 0.2007	Lin1	-0.257	0.1960		0.0100				0.9910		0.9900	
2,4-Dichlorophenol	0.2295 0.3353	0.2448	0.3017	0.3018	0.2102 0.3431	Ave		0.2809		0.2000	18.7		20.0				
1,2,4-Trichlorobenzene	0.2721 0.3942	0.2956	0.3647	0.2246 0.3699	0.2500 0.4124	Lin1	-0.117	0.3909		0.0100				0.9920		0.9900	
Naphthalene	0.8596 1.0611	0.9006	0.7982 1.0477	0.8243 1.0282	0.8497 1.1330	Ave		0.9447		0.7000	13.0		20.0				
4-Chloroaniline	0.3624 0.4678	0.3626	0.4387	0.4268	0.3668 0.4837	Ave		0.4155		0.0100	12.4		20.0				
2,6-Dichlorophenol	0.2339 0.3432	0.2498	0.3025	0.3062	0.2312 0.3467	Ave		0.2876		0.0100	17.2		20.0				
Hexachlorobutadiene	0.1536 0.2353	0.1709	0.2129	0.1307 0.2188	0.1472 0.2449	Lin1	-0.073	0.2315		0.0100				0.9900		0.9900	
4-Chloro-3-methylphenol	0.1999 0.2586	0.2032	0.2396	0.2396	0.2029 0.2708	Ave		0.2307		0.2000	12.5		20.0				
2-Methylnaphthalene	0.5642 0.7270	0.6293 0.6042	0.6199 0.7218	0.5850 0.7117	0.5835 0.7963	Ave		0.6543		0.4000	12.0		20.0				
1-Methylnaphthalene	0.5334 0.6958	0.5746	0.5973 0.6862	0.5513 0.6781	0.5573 0.7517	Ave		0.6251		0.0100	12.6		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 Chicago Job No.: 500-150867-2 Analy Batch No.: 445577

SDG No.: _____

Instrument ID: CMS12 GC Column: ZB5MS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/15/2018 17:27 Calibration End Date: 08/15/2018 22:24 Calibration ID: 29699

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8	LVL 9	LVL 10												
Hexachlorocyclopentadiene	0.3591 0.5694	0.4303	0.5485	0.5366	0.3351 0.6028	Lin1	-0.363	0.5937		0.0500				0.9940		0.9900	
1,2,4,5-Tetrachlorobenzene	0.5714 0.8963	0.6651	0.8506	0.8310	0.5511 0.9405	Lin1	-0.546	0.9240		0.0100				0.9930		0.9900	
2,4,6-Trichlorophenol	0.3239 0.5307	0.3552	0.4527	0.4589	0.3170 0.5370	Qua2	0.0114	0.2844	0.0188280	0.2000				0.9980		0.9900	
2,4,5-Trichlorophenol	0.3399 0.5483	0.3742	0.4660	0.4815	0.3340 0.5519	Qua2	0.0107	0.3019	0.0188255	0.2000				0.9990		0.9900	
1,1'-Biphenyl	1.3687 1.8762	1.5106	1.8297	1.7939	1.3634 2.0254	Ave		1.6811		0.0100	15.7		20.0				
2-Chloronaphthalene	1.0852 1.5347	1.1839	1.4348	0.9821 1.4261	1.0937 1.6297	Ave		1.2963		0.8000	18.5		20.0				
2-Nitroaniline	0.2459 0.3071	0.2559	0.2923	0.2832	0.2418 0.3229	Ave		0.2784		0.0100	11.3		20.0				
Dimethyl phthalate	1.0969 1.4626	1.1598	1.3817	1.0544 1.3552	1.1183 1.5302	Ave		1.2699		0.0100	14.5		20.0				
m-Dinitrobenzene	0.1404 0.2041	0.1501	0.1801	0.1802	0.1314 0.2078	Ave		0.1706		0.0100	17.8		20.0				
2,6-Dinitrotoluene	0.2318 0.3438	0.1773 0.2452	0.1915 0.2945	0.2001 0.2980	0.2266 0.3452	Qua2	-0.004	0.2117	0.0098839	0.2000				0.9990		0.9900	
Acenaphthylene	1.4971 2.0707	1.5838	1.3728 1.9116	1.3925 1.9093	1.4856 2.1391	Ave		1.7069		0.9000	17.6		20.0				
3-Nitroaniline	0.2783 0.3593	0.2887	0.3401	0.3281	0.2795 0.3776	Ave		0.3217		0.0100	12.5		20.0				
2,4-Dinitrophenol	0.1177 0.2450	0.1493	0.2204	0.2266	++++ 0.2587	Lin1	-0.732	0.2718		0.0100				0.9920		0.9900	

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 Chicago Job No.: 500-150867-2 Analy Batch No.: 445577

SDG No.: _____

Instrument ID: CMS12 GC Column: ZB5MS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/15/2018 17:27 Calibration End Date: 08/15/2018 22:24 Calibration ID: 29699

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8	LVL 9	LVL 10												
Acenaphthene	1.1201 1.5007	1.2644	1.0097 1.5836	1.0314 1.5215	1.1043 1.6733	Ave		1.3121		0.9000	19.7		20.0				
4-Nitrophenol	0.1510 0.2040	0.1585	0.1940	0.1892	++++ 0.2139	Ave		0.1851		0.0100	13.6		20.0				
2,4-Dinitrotoluene	0.2865 0.4082	0.3027	0.2379 0.3664	0.2470 0.3636	0.2809 0.4178	Lin1	-0.061	0.3887		0.2000				0.9900		0.9900	
Dibenzofuran	1.4424 2.0159	1.5592	1.9047	1.3357 1.8923	1.4105 2.1263	Ave		1.7109		0.8000	18.0		20.0				
2,3,4,6-Tetrachlorophenol	0.2947 0.4819	0.3224	0.4105	0.4168	0.2857 0.4894	Qua2	0.0076	0.2592	0.0170742	0.0100				0.9980		0.9900	
Diethyl phthalate	1.1784 1.4736	1.3141	1.6412	1.0752 1.5266	1.1590 1.6608	Ave		1.3786		0.0100	16.5		20.0				
Hexadecane	0.7177 0.6679	0.7683	0.8528	0.7498	0.7103 0.7959	Ave		0.7518		0.0100	8.1		20.0				
4-Chlorophenyl phenyl ether	0.5209 0.8489	0.5834	0.7563	0.7453	0.5066 0.8684	Lin1	-0.529	0.8508		0.4000				0.9900		0.9900	
4-Nitroaniline	0.2968 0.4395	0.3332	0.4364	0.4316	0.2831 0.4796	Lin1	-0.264	0.4662		0.0100				0.9930		0.9900	
Fluorene	1.1399 1.6502	1.2803	1.0443 1.6409	1.0367 1.5912	1.1223 1.7731	Lin1	-0.263	1.6460		0.9000				0.9910		0.9900	
4,6-Dinitro-2-methylphenol	0.0859 0.1665	0.1004	0.1330	0.1392	++++ 0.1656	Qua2	-0.029	0.0795	0.0033053	0.0100				0.9980		0.9900	
N-Nitrosodiphenylamine	0.4399 0.6735	0.4816	0.4019 0.6084	0.4091 0.6060	0.4325 0.6964	Qua2	-0.003	0.4092	0.0211388	0.0100				0.9980		0.9900	
Diphenylamine	0.5176 0.7924	0.5666	0.7158	0.7129	0.5089 0.8193	Ave		0.6619		0.0100	19.6		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 Chicago Job No.: 500-150867-2 Analy Batch No.: 445577

SDG No.: _____

Instrument ID: CMS12 GC Column: ZB5MS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/15/2018 17:27 Calibration End Date: 08/15/2018 22:24 Calibration ID: 29699

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8	LVL 9	LVL 10												
1,2-Diphenylhydrazine	1.0463 1.2414	1.0828	1.2300	1.1729	1.0963 1.3154	Ave		1.1693		0.0100	8.4		20.0				
4-Bromophenyl phenyl ether	0.2117 0.3684	0.2367	0.3066	0.3189	0.2014 0.3684	Qua2	-0.001	0.1867	0.0138557	0.1000				0.9990		0.9900	
Hexachlorobenzene		0.2470 0.3217	0.2669 0.4172	0.2478 0.4234	0.2711 0.4873	Qua2	-0.001	0.2547	0.0176410	0.1000				0.9980		0.9900	
n-Octadecane	0.4825 0.3047	0.4833	0.4312	0.4452 0.3613	0.4853 0.3749	Ave		0.4210		0.0100	16.0		20.0				
Pentachlorophenol	0.1837 0.2683	0.2387	0.2957	0.2785	0.1545 0.3032	Lin1	-0.345	0.2986		0.0500				0.9940		0.9900	
Phenanthrene	0.9301 1.3952	1.0290	0.8509 1.3002	0.8559 1.2968	0.9033 1.4655	Qua2	-0.008	0.8716	0.0437490	0.7000				0.9980		0.9900	
Anthracene	0.9546 1.4519	1.0680	0.8538 1.3420	0.8583 1.3489	0.9345 1.5215	Qua2	-0.013	0.8983	0.0460906	0.7000				0.9980		0.9900	
Carbazole	0.8325 1.1177	0.8879	1.0698	0.7710 1.0674	0.8251 1.1928	Ave		0.9705		0.0100	16.4		20.0				
Di-n-butyl phthalate	1.0486 1.4775	1.1104	1.3510	0.9570 1.3499	1.0333 1.5462	Ave		1.2342		0.0100	18.1		20.0				
Fluoranthene	0.9111 1.4303	0.9820	0.8324 1.2433	0.8101 1.2606	0.8853 1.4603	Qua2	-0.001	0.8197	0.0474892	0.6000				0.9990		0.9900	
Benzidine	0.4081 0.5418	0.4288	0.5085	0.5082	0.4239 0.5628	Ave		0.4832		0.0100	12.9		20.0				
Pyrene	1.1179 1.3691	1.1374	1.0627 1.3140	1.0422 1.2840	1.1257 1.4441	Ave		1.2108		0.6000	11.9		20.0				
Butyl benzyl phthalate	0.5076 0.5893	0.5120	0.5645	0.4763 0.5485	0.5121 0.6163	Ave		0.5408		0.0100	8.7		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 Chicago Job No.: 500-150867-2 Analy Batch No.: 445577

SDG No.: _____

Instrument ID: CMS12 GC Column: ZB5MS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/15/2018 17:27 Calibration End Date: 08/15/2018 22:24 Calibration ID: 29699

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8	LVL 9	LVL 10												
3,3'-Dichlorobenzidine	0.3715 0.4641	0.3783	0.4223	0.4148	0.3621 0.4681	Ave		0.4116		0.0100	10.5		20.0				
Bis(2-ethylhexyl) phthalate	0.7571 0.9281	0.7832	0.9035	0.6810 0.8690	0.7487 0.9728	Ave		0.8304		0.0100	12.3		20.0				
Benzo[a]anthracene	1.3047 1.0620 1.4059	1.0627 1.1148	1.0626 1.3039	1.0141 1.2960	1.0747 1.4545	Ave		1.1960		0.8000	13.3		20.0				
Chrysene	0.9863 0.9107 1.1564	0.9205 0.9163	0.9197 1.0533	0.9095 1.0544	0.9242 1.1917	Ave		0.9948		0.7000	10.5		20.0				
Di-n-octyl phthalate	0.8768 1.2884	0.9403	1.1251	1.1192	0.8551 1.2997	Ave		1.0721		0.0100	17.3		20.0				
Benzo[b]fluoranthene	0.9029 0.9204 1.2356	0.8346 0.9374	0.9257 1.1035	0.8737 1.0797	0.9317 1.2731	Ave		1.0017		0.7000	14.8		20.0				
Benzo[k]fluoranthene	0.9696 0.9738 1.3080	0.8770 0.9911	0.9118 1.1061	0.9161 1.1584	0.9555 1.3072	Ave		1.0431		0.7000	14.8		20.0				
Benzo[a]pyrene	0.8888 0.9078 1.1992	0.8190 0.9128	0.8416 1.0607	0.8497 1.0598	0.8927 1.2219	Ave		0.9685		0.7000	14.8		20.0				
Indeno[1,2,3-cd]pyrene	0.9975 1.1493 1.5789	0.9592 1.1788	1.0173 1.3777	1.0393 1.3965	1.1221 1.6114	Qua2	-0.003	1.0370	0.0413043	0.5000				0.9990		0.9900	
Dibenz(a,h)anthracene	0.7974 0.9343 1.4118	0.7584 0.9707	0.8121 1.1728	0.7983 1.1887	0.9164 1.4270	Qua2	-0.002	0.8151	0.0442900	0.4000				0.9980		0.9900	
Benzo[g,h,i]perylene	0.9536 1.2372	0.9682	0.9177 1.1192	0.8954 1.1158	0.9471 1.2845	Ave		1.0487		0.5000	13.8		20.0				
2-Fluorophenol (Surr)	0.6154 1.0958	0.6771	0.6241 0.8383	0.5858 0.9032	0.6622 1.0949	Qua2	0.0159	0.5410	0.0402185	0.0100				0.9970		0.9900	
Phenol-d5 (Surr)	1.0059 1.3416	1.2294	0.7528 1.3371	0.8038 1.2378	0.9011 1.3841	Lin1	-0.205	1.3297		0.0100				0.9960		0.9900	

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 Chicago Job No.: 500-150867-2 Analy Batch No.: 445577

SDG No.: _____

Instrument ID: CMS12 GC Column: ZB5MS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/15/2018 17:27 Calibration End Date: 08/15/2018 22:24 Calibration ID: 29699

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8	LVL 9	LVL 10												
Nitrobenzene-d5 (Surr)	0.2449 0.3105	0.2581	0.2308 0.2852	0.2314 0.2898	0.2492 0.3223	Ave		0.2691		0.0100	12.6		20.0				
2-Fluorobiphenyl (Surr)	1.0902 1.6071	1.2269	0.9343 1.4414	0.9982 1.4772	1.0967 1.6795	Lin1	-0.249	1.5497		0.0100				0.9900		0.9900	
2,4,6-Tribromophenol (Surr)	0.2720 0.4737	0.3122	0.2172 0.3872	0.2453 0.4062	0.2692 0.4716	Qua2	-0.007	0.2512	0.0166682	0.0100				0.9990		0.9900	
Terphenyl-d14 (Surr)	0.7631 1.0427	0.8118	0.6880 0.9272	0.6989 0.9516	0.7531 1.0696	Ave		0.8562		0.0100	17.0		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
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Chicago Job No.: 500-150867-2 Analy Batch No.: 445577

SDG No.: _____

Instrument ID: CMS12 GC Column: ZB5MS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/15/2018 17:27 Calibration End Date: 08/15/2018 22:24 Calibration ID: 29699

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 500-445577/3	L1STD02.D
Level 2	IC 500-445577/4	L1STD05.D
Level 3	IC 500-445577/5	L1STD1.D
Level 4	IC 500-445577/2	L1STD2.D
Level 5	IC 500-445577/6	L1STD5.D
Level 6	IC 500-445577/7	L1STD10.D
Level 7	IC 500-445577/8	L1STD20.D
Level 8	ICIS 500-445577/9	L1STD40.D
Level 9	IC 500-445577/10	L1STD50.D
Level 10	IC 500-445577/11	L1STD60.D
Level 11	IC 500-445577/12	L1STD70.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 2	LVL 3	LVL 4	LVL 5	
			LVL 6	LVL 7	LVL 8	LVL 9	LVL 10	LVL 7	LVL 8	LVL 9	LVL 10	
1,4-Dioxane	DCBd 4	Qua2	16610 260315	38842	96592	137006	++++ 196553	2.00 14.0	4.00	8.00	10.0	++++ 12.0
N-Nitrosodimethylamine	DCBd 4	Ave	64315 600672	146010	305145	11600 401700	28214 476434	2.00 14.0	4.00	8.00	0.400 10.0	1.00 12.0
Pyridine	DCBd 4	Lin1	96233 1543007	274468	725656	1027861	++++ 1243075	4.00 28.0	8.00	16.0	20.0	++++ 24.0
Phenol	DCBd 4	Ave	79218 973713	210227	453294	613426	31462 744013	2.00 14.0	4.00	8.00	10.0	1.00 12.0
Aniline	DCBd 4	Ave	112138 1117484	256044	533168	716212	46693 869270	2.00 14.0	4.00	8.00	10.0	1.00 12.0
Bis(2-chloroethyl)ether	DCBd 4	Ave	80427 730640	176390	358210	13220 478561	33799 572052	2.00 14.0	4.00	8.00	0.400 10.0	1.00 12.0
2-Chlorophenol	DCBd 4	Ave	79525 982761	198982	451944	628181	33773 763704	2.00 14.0	4.00	8.00	10.0	1.00 12.0
n-Decane	DCBd 4	Ave	118167 1057095	269624	11750 562064	20417 742650	52323 902562	2.00 14.0	4.00	0.200 8.00	0.400 10.0	1.00 12.0

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Chicago

Job No.: 500-150867-2

Analy Batch No.: 445577

SDG No.: _____

Instrument ID: CMS12

GC Column: ZB5MS

ID: 0.25 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 08/15/2018 17:27

Calibration End Date: 08/15/2018 22:24

Calibration ID: 29699

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6 LVL 11	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 6 LVL 11	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
1,3-Dichlorobenzene	DCBd 4	Ave	95177 1155734	227166	526301	16517 731857	41974 881760	2.00 14.0	4.00	8.00	0.400 10.0	1.00 12.0
1,4-Dichlorobenzene	DCBd 4	Ave	97223 1168480	235497	541924	17335 750575	42606 918975	2.00 14.0	4.00	8.00	0.400 10.0	1.00 12.0
Benzyl alcohol	DCBd 4	Ave	56413 521499	123172	254323	339118	22757 402325	2.00 14.0	4.00	8.00	10.0	1.00 12.0
1,2-Dichlorobenzene	DCBd 4	Ave	96227 1106814	229904	517372	16303 710237	41207 858902	2.00 14.0	4.00	8.00	0.400 10.0	1.00 12.0
2-Methylphenol	DCBd 4	Ave	64174 648068	145739	303667	9128 412085	24533 494274	2.00 14.0	4.00	8.00	0.400 10.0	1.00 12.0
2,2'-oxybis[1-chloropropane]	DCBd 4	Ave	177900 1513197	379718	764885	29440 1018140	77385 1209194	2.00 14.0	4.00	8.00	0.400 10.0	1.00 12.0
Indene	DCBd 4	Ave	264835 2377268	622771	1307093	1707735	106631 1953988	4.00 28.0	8.00	16.0	20.0	2.00 24.0
3 & 4 Methylphenol	DCBd 4	Ave	81737 812187	181981	388351	11118 526546	30190 632419	2.00 14.0	4.00	8.00	0.400 10.0	1.00 12.0
N-Nitrosodi-n-propylamine	DCBd 4	Ave	54945 492821	2474 119776	4875 249827	10305 334792	24348 396660	2.00 14.0	0.100 4.00	0.200 8.00	0.400 10.0	1.00 12.0
Acetophenone	DCBd 4	Ave	120517 1147795	269579	9472 576470	20715 766857	52613 925119	2.00 14.0	4.00	0.200 8.00	0.400 10.0	1.00 12.0
Hexachloroethane	DCBd 4	Ave	40500 439352	95133	210228	286434	17754 348192	2.00 14.0	4.00	8.00	10.0	1.00 12.0
Nitrobenzene	NPT	Ave	78978 715172	167511	5697 346110	12621 461270	33994 554203	2.00 14.0	4.00	0.200 8.00	0.400 10.0	1.00 12.0
Isophorone	NPT	Ave	141371 1160545	297032	590529	26143 770411	64982 911220	2.00 14.0	4.00	8.00	0.400 10.0	1.00 12.0

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Chicago Job No.: 500-150867-2 Analy Batch No.: 445577

SDG No.: _____

Instrument ID: CMS12 GC Column: ZB5MS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/15/2018 17:27 Calibration End Date: 08/15/2018 22:24 Calibration ID: 29699

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6 LVL 11	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 6 LVL 11	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
2-Nitrophenol	NPT	Ave	48672 499410	108047	232603	314831	19518 383484	2.00 14.0	4.00	8.00	10.0	1.00 12.0
2,4-Dimethylphenol	NPT	Ave	85588 814442	190127	401303	529833	35547 636550	2.00 14.0	4.00	8.00	10.0	1.00 12.0
Bis(2-chloroethoxy)methane	NPT	Ave	101905 910352	222612	448701	18688 596747	45456 710201	2.00 14.0	4.00	8.00	0.400 10.0	1.00 12.0
Benzoic acid	NPT	Lin1	84962 972389	204016	421676	610969	30316 748094	4.00 28.0	8.00	16.0	20.0	2.00 24.0
2,4-Dichlorophenol	NPT	Ave	79578 837825	177789	390676	526560	31298 639518	2.00 14.0	4.00	8.00	10.0	1.00 12.0
1,2,4-Trichlorobenzene	NPT	Lin1	94341 985038	214678	472219	13430 645480	37209 768768	2.00 14.0	4.00	8.00	0.400 10.0	1.00 12.0
Naphthalene	NPT	Ave	298076 2651500	654023	21853 1356631	49295 1794224	126495 2111886	2.00 14.0	4.00	0.200 8.00	0.400 10.0	1.00 12.0
4-Chloroaniline	NPT	Ave	125662 1168968	263311	568042	744705	54597 901563	2.00 14.0	4.00	8.00	10.0	1.00 12.0
2,6-Dichlorophenol	NPT	Ave	81109 857496	181416	391767	534343	34415 646164	2.00 14.0	4.00	8.00	10.0	1.00 12.0
Hexachlorobutadiene	NPT	Lin1	53248 587946	124102	275665	7815 381744	21910 456468	2.00 14.0	4.00	8.00	0.400 10.0	1.00 12.0
4-Chloro-3-methylphenol	NPT	Ave	69321 646101	147600	310241	418109	30198 504830	2.00 14.0	4.00	8.00	10.0	1.00 12.0
2-Methylnaphthalene	NPT	Ave	195624 1816652	8749 438792	16971 934696	34985 1241818	86867 1484304	2.00 14.0	0.100 4.00	0.200 8.00	0.400 10.0	1.00 12.0
1-Methylnaphthalene	NPT	Ave	184938 1738661	417286	16354 888542	32969 1183308	82965 1401121	2.00 14.0	4.00	0.200 8.00	0.400 10.0	1.00 12.0

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Chicago

Job No.: 500-150867-2

Analy Batch No.: 445577

SDG No.: _____

Instrument ID: CMS12

GC Column: ZB5MS

ID: 0.25 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 08/15/2018 17:27

Calibration End Date: 08/15/2018 22:24

Calibration ID: 29699

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6 LVL 11	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 6 LVL 11	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
Hexachlorocyclopentadiene	ANT	Lin1	59464 642574	145770	328010	434278	24445 511254	2.00 14.0	4.00	8.00	10.0	1.00 12.0
1,2,4,5-Tetrachlorobenzene	ANT	Lin1	94622 1011436	225337	508642	672499	40203 797705	2.00 14.0	4.00	8.00	10.0	1.00 12.0
2,4,6-Trichlorophenol	ANT	Qua2	53647 598807	120325	270691	371357	23130 455443	2.00 14.0	4.00	8.00	10.0	1.00 12.0
2,4,5-Trichlorophenol	ANT	Qua2	56283 618728	126785	278677	389622	24369 468081	2.00 14.0	4.00	8.00	10.0	1.00 12.0
1,1'-Biphenyl	ANT	Ave	226660 2117167	511764	1094201	1451685	99463 1717802	2.00 14.0	4.00	8.00	10.0	1.00 12.0
2-Chloronaphthalene	ANT	Ave	179713 1731767	401091	858036	31596 1154095	79791 1382163	2.00 14.0	4.00	8.00	0.400 10.0	1.00 12.0
2-Nitroaniline	ANT	Ave	40721 346534	86696	174800	229139	17638 273843	2.00 14.0	4.00	8.00	10.0	1.00 12.0
Dimethyl phthalate	ANT	Ave	181660 1650407	392905	826283	33921 1096656	81586 1297847	2.00 14.0	4.00	8.00	0.400 10.0	1.00 12.0
m-Dinitrobenzene	ANT	Ave	23255 230332	50839	107724	145821	9583 176217	2.00 14.0	4.00	8.00	10.0	1.00 12.0
2,6-Dinitrotoluene	ANT	Qua2	38393 387950	1461 83061	3096 176114	6436 241120	16533 292748	2.00 14.0	0.100 4.00	0.200 8.00	0.400 10.0	1.00 12.0
Acenaphthylene	ANT	Ave	247921 2336582	536557	22198 1143163	44799 1545096	108385 1814240	2.00 14.0	4.00	0.200 8.00	0.400 10.0	1.00 12.0
3-Nitroaniline	ANT	Ave	46091 405396	97819	203356	265514	20392 320242	2.00 14.0	4.00	8.00	10.0	1.00 12.0
2,4-Dinitrophenol	ANT	Lin1	38977 552943	101127	263577	366751	+++++ 438798	4.00 28.0	8.00	16.0	20.0	+++++ 24.0

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Chicago Job No.: 500-150867-2 Analy Batch No.: 445577

SDG No.: _____

Instrument ID: CMS12 GC Column: ZB5MS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/15/2018 17:27 Calibration End Date: 08/15/2018 22:24 Calibration ID: 29699

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6 LVL 11	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 6 LVL 11	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
Acenaphthene	ANT	Ave	185502 1693428	428374	16327 946986	33181 1231266	80566 1419162	2.00 14.0	4.00	0.200 8.00	0.400 10.0	1.00 12.0
4-Nitrophenol	ANT	Ave	50028 460470	107403	232077	306240	++++ 362868	4.00 28.0	8.00	16.0	20.0	++++ 24.0
2,4-Dinitrotoluene	ANT	Lin1	47447 460637	102552	3847 219085	7945 294282	20493 354377	2.00 14.0	4.00	0.200 8.00	0.400 10.0	1.00 12.0
Dibenzofuran	ANT	Ave	238875 2274726	528227	1139059	42969 1531313	102899 1803424	2.00 14.0	4.00	8.00	0.400 10.0	1.00 12.0
2,3,4,6-Tetrachlorophenol	ANT	Qua2	48806 543762	109208	245462	337279	20842 415118	2.00 14.0	4.00	8.00	10.0	1.00 12.0
Diethyl phthalate	ANT	Ave	195158 1662891	445194	981479	34590 1235380	84555 1408603	2.00 14.0	4.00	8.00	0.400 10.0	1.00 12.0
Hexadecane	ANT	Ave	118858 753621	260303	510003	606810	51823 675048	2.00 14.0	4.00	8.00	10.0	1.00 12.0
4-Chlorophenyl phenyl ether	ANT	Lin1	86263 957943	197639	452279	603137	36957 736539	2.00 14.0	4.00	8.00	10.0	1.00 12.0
4-Nitroaniline	ANT	Lin1	49146 495921	112869	260975	349269	20652 406748	2.00 14.0	4.00	8.00	10.0	1.00 12.0
Fluorene	ANT	Lin1	188779 1862112	433756	16886 981263	33350 1287685	81878 1503845	2.00 14.0	4.00	0.200 8.00	0.400 10.0	1.00 12.0
4,6-Dinitro-2-methylphenol	PHN	Qua2	47795 610052	112951	263403	367585	++++ 458359	4.00 28.0	8.00	16.0	20.0	++++ 24.0
N-Nitrosodiphenylamine	PHN	Qua2	122442 1233595	270853	11059 602584	22588 799862	54382 963748	2.00 14.0	4.00	0.200 8.00	0.400 10.0	1.00 12.0
Diphenylamine	PHN	Ave	122442 1233595	270853	602584	799862	54382 963748	1.70 11.9	3.40	6.80	8.50	0.850 10.2

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Chicago Job No.: 500-150867-2 Analy Batch No.: 445577

SDG No.: _____

Instrument ID: CMS12 GC Column: ZB5MS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/15/2018 17:27 Calibration End Date: 08/15/2018 22:24 Calibration ID: 29699

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6 LVL 11	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 6 LVL 11	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
1,2-Diphenylhydrazine	ANT	Ave	173271 1400829	366845	735527	949182	79981 1115667	2.00 14.0	4.00	8.00	10.0	1.00 12.0
4-Bromophenyl phenyl ether	PHN	Qua2	58912 674783	133143	303701	421007	25326 509748	2.00 14.0	4.00	8.00	10.0	1.00 12.0
Hexachlorobenzene	PHN	Qua2	79291 877113	3525 180913	7344 413192	13681 558906	34087 674321	2.00 14.0	0.100 4.00	0.200 8.00	0.400 10.0	1.00 12.0
n-Octadecane	PHN	Ave	134281 558100	271822	427046	476978	24581 61019 518736	2.00 14.0	4.00	8.00	0.400 10.0	1.00 12.0
Pentachlorophenol	PHN	Lin1	102276 982823	268508	585735	735363	38861 839047	4.00 28.0	8.00	16.0	20.0	2.00 24.0
Phenanthrene	PHN	Qua2	258879 2555410	578760	23417 1287747	47260 1711730	113567 2028027	2.00 14.0	4.00	0.200 8.00	0.400 10.0	1.00 12.0
Anthracene	PHN	Qua2	265703 2659203	600692	23495 1329180	47395 1780538	117497 2105497	2.00 14.0	4.00	0.200 8.00	0.400 10.0	1.00 12.0
Carbazole	PHN	Ave	231705 2047075	499405	1059570	1408938	42575 103742 1650642	2.00 14.0	4.00	8.00	0.400 10.0	1.00 12.0
Di-n-butyl phthalate	PHN	Ave	291846 2706184	624519	1338130	1781869	52844 129924 2139685	2.00 14.0	4.00	8.00	0.400 10.0	1.00 12.0
Fluoranthene	PHN	Qua2	253591 2619724	552290	22908 1231485	44730 1664002	111305 2020872	2.00 14.0	4.00	0.200 8.00	0.400 10.0	1.00 12.0
Benzidine	CRY	Ave	93329 1040151	211502	480461	658689	43069 789076	2.00 14.0	4.00	8.00	10.0	1.00 12.0
Pyrene	CRY	Ave	255632 2628424	561023	23051 1241554	45704 1664299	114382 2024657	2.00 14.0	4.00	0.200 8.00	0.400 10.0	1.00 12.0
Butyl benzyl phthalate	CRY	Ave	116083 1131335	252519	533352	710888	20886 52035 864064	2.00 14.0	4.00	8.00	0.400 10.0	1.00 12.0

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Chicago

Job No.: 500-150867-2

Analy Batch No.: 445577

SDG No.: _____

Instrument ID: CMS12

GC Column: ZB5MS

ID: 0.25 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 08/15/2018 17:27

Calibration End Date: 08/15/2018 22:24

Calibration ID: 29699

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 2	LVL 3	LVL 4	LVL 5	
			LVL 6	LVL 7	LVL 8	LVL 9	LVL 10	LVL 6	LVL 7	LVL 8	LVL 9	LVL 10
3,3'-Dichlorobenzidine	CRY	Ave	84953 890949	186582	399063	537598	36793 656235	2.00 14.0	4.00	8.00	10.0	1.00 12.0
Bis(2-ethylhexyl) phthalate	CRY	Ave	173133 1781891	386327	853689	29863 1126410	76072 1363867	2.00 14.0	4.00	8.00	0.400 10.0	1.00 12.0
Benzo[a]anthracene	CRY	Ave	5589 242847 2699154	12052 549868	23048 1232032	44472 1679765	109197 2039198	0.0400 2.00 14.0	0.100 4.00	0.200 8.00	0.400 10.0	1.00 12.0
Chrysene	CRY	Ave	4225 208255 2220099	10440 451945	19949 995213	39887 1366674	93905 1670733	0.0400 2.00 14.0	0.100 4.00	0.200 8.00	0.400 10.0	1.00 12.0
Di-n-octyl phthalate	PHN	Ave	244034 2359893	528843	1114404	1477407	107507 1798575	2.00 14.0	4.00	8.00	10.0	1.00 12.0
Benzo[b]fluoranthene	PRY	Ave	3981 203744 2008357	9633 440484	20523 948355	38313 1222608	94391 1528901	0.0400 2.00 14.0	0.100 4.00	0.200 8.00	0.400 10.0	1.00 12.0
Benzo[k]fluoranthene	PRY	Ave	4275 215571 2125904	10123 465711	20215 950597	40174 1311680	96801 1569781	0.0400 2.00 14.0	0.100 4.00	0.200 8.00	0.400 10.0	1.00 12.0
Benzo[a]pyrene	PRY	Ave	3919 200951 1949127	9453 428951	18659 911553	37259 1200043	90437 1467439	0.0400 2.00 14.0	0.100 4.00	0.200 8.00	0.400 10.0	1.00 12.0
Indeno[1,2,3-cd]pyrene	PRY	Qua2	4398 254405 2566193	11071 553937	22553 1184048	45574 1581372	113678 1935178	0.0400 2.00 14.0	0.100 4.00	0.200 8.00	0.400 10.0	1.00 12.0
Dibenz(a,h)anthracene	PRY	Qua2	3516 206830 2294630	8754 456139	18004 1007928	35006 1346015	92841 1713700	0.0400 2.00 14.0	0.100 4.00	0.200 8.00	0.400 10.0	1.00 12.0
Benzo[g,h,i]perylene	PRY	Ave	211084 2010803	454971	20345 961870	39263 1263463	95949 1542614	2.00 14.0	4.00	0.200 8.00	0.400 10.0	1.00 12.0
2-Fluorophenol (Surr)	DCBd 4	Qua2	42866 705891	108305	4362 261983	7374 402572	20226 519346	2.00 14.0	4.00	0.200 8.00	0.400 10.0	1.00 12.0
Phenol-d5 (Surr)	DCBd 4	Lin1	70067 864230	196653	5261 417900	10119 551694	27522 656502	2.00 14.0	4.00	0.200 8.00	0.400 10.0	1.00 12.0

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Chicago Job No.: 500-150867-2 Analy Batch No.: 445577

SDG No.: _____

Instrument ID: CMS12 GC Column: ZB5MS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/15/2018 17:27 Calibration End Date: 08/15/2018 22:24 Calibration ID: 29699

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 2	LVL 3	LVL 4	LVL 5	
			LVL 6	LVL 7	LVL 8	LVL 9	LVL 10	LVL 7	LVL 8	LVL 9	LVL 10	
Nitrobenzene-d5 (Surr)	NPT	Ave	84932 775876	187472	6319 369279	13838 505660	37090 600778	2.00 14.0	4.00	0.200 8.00	0.400 10.0	1.00 12.0
2-Fluorobiphenyl (Surr)	ANT	Lin1	180539 1813448	415647	15107 861962	32113 1195426	80007 1424456	2.00 14.0	4.00	0.200 8.00	0.400 10.0	1.00 12.0
2,4,6-Tribromophenol (Surr)	ANT	Qua2	45053 534560	105760	3512 231522	7891 328680	19642 400015	2.00 14.0	4.00	0.200 8.00	0.400 10.0	1.00 12.0
Terphenyl-d14 (Surr)	CRY	Ave	174493 2001740	400437	14923 876075	30651 1233360	76522 1499538	2.00 14.0	4.00	0.200 8.00	0.400 10.0	1.00 12.0

Curve Type Legend:

<p>Ave = Average ISTD Lin1 = Linear 1/conc ISTD Qua2 = Quadratic 1/conc^2 ISTD</p>
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FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: TestAmerica Chicago Job No.: 500-150867-2 Analy Batch No.: 445577

SDG No.: _____

Instrument ID: CMS12 GC Column: ZB5MS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/15/2018 17:27 Calibration End Date: 08/15/2018 22:24 Calibration ID: 29699

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 500-445577/3	L1STD02.D
Level 2	IC 500-445577/4	L1STD05.D
Level 3	IC 500-445577/5	L1STD1.D
Level 4	IC 500-445577/2	L1STD2.D
Level 5	IC 500-445577/6	L1STD5.D
Level 6	IC 500-445577/7	L1STD10.D
Level 7	IC 500-445577/8	L1STD20.D
Level 8	ICIS 500-445577/9	L1STD40.D
Level 9	IC 500-445577/10	L1STD50.D
Level 10	IC 500-445577/11	L1STD60.D
Level 11	IC 500-445577/12	L1STD70.D

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
	LVL 7 #	LVL 8 #	LVL 9 #	LVL 10 #	LVL 11 #		LVL 7	LVL 8	LVL 9	LVL 10	LVL 11	
1,4-Dioxane	0.9	1.5	-6.2	5.9	++++	-0.4	30	30	30	30	30	50
N-Nitrosodimethylamine	-2.6	4.2	-3.8	-1.7	-1.4	-1.5	30	30	30	50	30	30
Pyridine	-8.4	0.4	-2.9	7.0	++++	6.6	30	30	30	30	30	50
Phenol	-2.0	8.1	2.6	17.0	-23.2	-15.2	30	30	30	30	50	30
Aniline	-3.6	2.8	-3.2	10.4	-7.9	-3.0	30	30	30	30	50	30
Bis(2-chloroethyl)ether	-1.7	2.2	-4.3	-6.4	-1.4	2.9	30	30	30	50	30	30
2-Chlorophenol	-8.2	6.7	4.0	18.9	-18.4	-15.7	30	30	30	30	50	30
n-Decane	-1.5	5.1	-1.8	-5.3	0.1	-0.9	30	30	30	50	30	30
1,3-Dichlorobenzene	-8.8	8.2	5.5	-15.7	-11.7	-12.2	30	30	30	50	30	30
1,4-Dichlorobenzene	-8.1	8.3	5.2	-14.0	-12.9	-12.8	30	30	30	50	30	30
Benzyl alcohol	-3.0	2.5	-4.2	6.8	-6.2	2.0	30	30	30	30	50	30
1,2-Dichlorobenzene	-6.1	8.2	4.1	-15.4	-11.8	-9.7	30	30	30	50	30	30
2-Methylphenol	-0.2	6.4	1.3	-20.6	-12.0	0.9	30	30	30	50	30	30

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: TestAmerica Chicago Job No.: 500-150867-2 Analy Batch No.: 445577
 SDG No.: _____
 Instrument ID: CMS12 GC Column: ZB5MS ID: 0.25 (mm) Heated Purge: (Y/N) N
 Calibration Start Date: 08/15/2018 17:27 Calibration End Date: 08/15/2018 22:24 Calibration ID: 29699

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
	LVL 7 #	LVL 8 #	LVL 9 #	LVL 10 #	LVL 11 #		LVL 7	LVL 8	LVL 9	LVL 10	LVL 11	
2,2'-oxybis[1-chloropropane]	-2.3	0.8	-5.9	-3.7 5.0	4.3 -3.3	5.2	30	30	30	50 30	30 30	30
Indene	0.9	8.4	-0.7	6.8	-9.5 -4.4	-1.5	30	30	30	30	50 30	30
3 & 4 Methylphenol	-1.1	8.0	2.7	-23.2 15.9	-14.1 9.6	2.0	30	30	30	50 30	30 30	30
N-Nitrosodi-n-propylamine	-3.5	-2.9 3.1	-10.1 -3.1	5.5 7.8	2.8 -1.4	1.7	30	50 30	30 30	30 30	30 30	30
Acetophenone	-1.7	7.5	-21.0 0.3	-4.1 13.7	0.4 3.9	0.9	30	30	50 30	30 30	30 30	30
Hexachloroethane	-7.3	4.9	0.2	14.5	-9.4 6.4	-9.3	30	30	30	30	50 30	30
Nitrobenzene	-6.5	8.3	-15.7 7.1	-14.5 20.5	-7.5 16.0	-7.7	30	30	50 30	30 30	30 30	30
Isophorone	-7.6	3.0	-1.2 -0.3	10.4	-1.4 4.9	-7.9	30	30	30	50 30	30 30	30
2-Nitrophenol	-12.2	6.0	6.5	21.4	-22.6 18.0	-17.1	30	30	30	30	50 30	30
2,4-Dimethylphenol	-9.7	7.0	4.8	17.9	-17.6 12.5	-14.8	30	30	30	30	50 30	30
Bis(2-chloroethoxy)methane	-7.5	4.5	3.2	-5.7 14.9	-7.9 9.9	-11.3	30	30	30	50 30	30 30	30
Benzoic acid	-11.9	-8.7	-4.1	7.9	17.6 4.0	-4.7	30	30	30	30	50 30	30
2,4-Dichlorophenol	-12.9	7.4	7.4	22.1	-25.2 19.4	-18.3	30	30	30	30	50 30	30
1,2,4-Trichlorobenzene	-16.9	-2.9	-2.4	32.5 8.0	-6.0 3.0	-15.4	30	30	30	50 30	30 30	30
Naphthalene	-4.7	10.9	-15.5 8.8	-12.7 19.9	-10.1 12.3	-9.0	30	30	50 30	30 30	30 30	30
4-Chloroaniline	-12.7	5.6	2.7	16.4	-11.7 12.6	-12.8	30	30	30	30	50 30	30
2,6-Dichlorophenol	-13.2	5.2	6.5	20.5	-19.6 19.3	-18.7	30	30	30	30	50 30	30
Hexachlorobutadiene	-18.3	-4.1	-2.3	35.2 8.4	-4.9 3.9	-17.9	30	30	30	50 30	30 30	30
4-Chloro-3-methylphenol	-11.9	3.9	3.9	17.4	-12.1 12.1	-13.3	30	30	30	30	50 30	30
2-Methylnaphthalene	-7.7	-3.8 10.3	-5.3 8.8	-10.6 21.7	-10.8 11.1	-13.8	30	50 30	30 30	30 30	30 30	30
1-Methylnaphthalene	-8.1	9.8	-4.4 8.5	-11.8 20.3	-10.8 11.3	-14.7	30	30	50 30	30 30	30 30	30

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: TestAmerica Chicago Job No.: 500-150867-2 Analy Batch No.: 445577

SDG No.: _____

Instrument ID: CMS12 GC Column: ZB5MS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/15/2018 17:27 Calibration End Date: 08/15/2018 22:24 Calibration ID: 29699

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
	LVL 7 #	LVL 8 #	LVL 9 #	LVL 10 #	LVL 11 #		LVL 7	LVL 8	LVL 9	LVL 10	LVL 11	
Hexachlorocyclopentadiene	-12.2	0.0	-3.5	6.6	17.7	-8.9	30	30	30	30	50	30
1,2,4,5-Tetrachlorobenzene	-13.3	-0.6	-4.2	6.7	18.7	-8.6	30	30	30	30	50	30
2,4,6-Trichlorophenol	-1.7	2.7	-2.3	3.5	0.7	-1.1	30	30	30	30	50	30
2,4,5-Trichlorophenol	-1.2	2.0	-1.4	3.1	0.8	-1.3	30	30	30	30	50	30
1,1'-Biphenyl	-10.1	8.8	6.7	20.5	-18.9	-18.6	30	30	30	30	50	30
2-Chloronaphthalene	-8.7	10.7	10.0	-24.2	-15.6	-16.3	30	30	30	50	30	30
2-Nitroaniline	-8.1	5.0	1.7	16.0	-13.2	-11.7	30	30	30	30	50	30
Dimethyl phthalate	-8.7	8.8	6.7	-17.0	-11.9	-13.6	30	30	30	50	30	30
m-Dinitrobenzene	-12.0	5.6	5.6	21.8	-23.0	-17.7	30	30	30	30	50	30
2,6-Dinitrotoluene	-1.8	1.1	-1.6	-2.8	3.8	0.9	30	50	30	30	30	30
Acenaphthylene	-7.2	12.0	-19.6	-18.4	-13.0	-12.3	30	30	50	30	30	30
3-Nitroaniline	-10.2	5.7	11.9	25.3	21.3	-13.5	30	30	30	30	50	30
2,4-Dinitrophenol	-11.4	-2.1	-3.2	6.4	-0.2	10.6	30	30	30	30	30	50
Acenaphthene	-3.6	20.7	-23.0	-21.4	-15.8	-14.6	30	30	50	30	30	30
4-Nitrophenol	-14.4	4.8	16.0	27.5	14.4	-18.4	30	30	30	30	50	50
2,4-Dinitrotoluene	-18.2	-3.8	-4.9	8.8	-12.0	-18.4	30	30	50	30	30	30
Dibenzofuran	-8.9	11.3	10.6	-21.9	-17.6	-15.7	30	30	30	50	30	30
2,3,4,6-Tetrachlorophenol	-1.8	2.6	-2.3	3.7	0.6	-0.7	30	30	30	30	50	30
Diethyl phthalate	-4.7	19.0	10.7	-22.0	-15.9	-14.5	30	30	30	50	30	30
Hexadecane	2.2	13.4	-0.3	5.9	-5.5	-4.5	30	30	30	30	50	30
4-Chlorophenyl phenyl ether	-15.9	-3.3	-6.2	7.2	21.7	-7.7	30	30	30	30	50	30

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBCK PERCENT ERROR

Lab Name: TestAmerica Chicago Job No.: 500-150867-2 Analy Batch No.: 445577
 SDG No.: _____
 Instrument ID: CMS12 GC Column: ZB5MS ID: 0.25 (mm) Heated Purge: (Y/N) N
 Calibration Start Date: 08/15/2018 17:27 Calibration End Date: 08/15/2018 22:24 Calibration ID: 29699

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
	LVL 7 #	LVL 8 #	LVL 9 #	LVL 10 #	LVL 11 #		LVL 7	LVL 8	LVL 9	LVL 10	LVL 11	
4-Nitroaniline	-14.4	0.7	-1.7	7.6	17.4	-8.0					50	30
Fluorene			43.4	3.0	-15.8	-22.7	30	30	50	30	30	30
4,6-Dinitro-2-methylphenol	-18.2	1.7	-1.7	9.1	1.4		30	30	30	30	30	
N-Nitrosodiphenylamine	-1.4	1.3	-2.3	3.3	++++	0.5	30	30	30	30	30	50
Diphenylamine			0.3	-0.5	1.0	-2.1			50	30	30	30
1,2-Diphenylhydrazine	-2.0	4.0	-1.7	3.6	-3.2		30	30	30	30	30	
4-Bromophenyl phenyl ether	-14.4	8.1	7.7	23.8	-23.1	-21.8	30	30	30	30	50	30
Hexachlorobenzene	-7.4	5.2	0.3	12.5	-6.2	-10.5	30	30	30	30	50	30
n-Octadecane	-1.8	2.2	-1.4	2.9	0.7	-1.0	30	30	30	30	50	30
Pentachlorophenol			4.6	-4.6	-0.2	-1.5			50	30	30	30
Phenanthrene	-0.9	3.9	-1.3	3.1	-3.1		30	30	30	30	30	
Anthracene	14.8	2.4	-14.2	5.7	15.3	14.6	30	30	30	30	50	30
Carbazole				-11.0	-27.6	-9.6					50	30
Di-n-butyl phthalate	-5.6	6.2	-0.9	6.3	-6.0	-9.6	30	30	30	30	30	30
Fluoranthene	-1.3	5.0	-0.7	3.6	-0.4	-2.4	30	30	50	30	30	30
Benzidine			1.5	-2.7	0.4	-2.7			50	30	30	30
Pyrene	-0.9	4.6	-0.5	3.5	-4.2		30	30	30	30	30	
Butyl benzyl phthalate	-8.5	10.2	10.0	-20.6	-15.0	-14.2	30	30	30	30	50	30
3,3'-Dichlorobenzidine				22.9	15.2						30	30
Bis(2-ethylhexyl) phthalate	-10.0	9.5	9.4	-22.5	-16.3	-15.0	30	30	30	30	50	30
Benzo[a]anthracene	-2.3	2.8	-1.9	3.6	-2.5	-0.3	30	30	50	30	30	30
									30	30	30	
	-11.3	5.2	5.2	16.5	-12.3	-15.5	30	30	30	30	50	30
											30	30
	-6.1	8.5	6.0	-12.2	-13.9	-7.0	30	30	50	30	30	30
				19.3	13.1	-7.7			30	30	30	
	-5.3	4.4	1.4	-11.9	-5.3	-6.1	30	30	30	30	50	30
				14.0	9.0				30	30	30	
	-8.1	2.6	0.8	13.7	-12.0	-9.7	30	30	30	30	50	30
				12.8	12.8						30	30
	-5.7	8.8	4.6	-18.0	-9.8	-8.8	30	30	30	30	50	30
				17.1	11.8				30	30	30	
	9.1	-11.1	-11.2	-15.2	-10.1	-11.2	50	30	30	30	30	30
	-6.8	9.0	8.4	21.6	17.6		30	30	30	30	30	

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: TestAmerica Chicago Job No.: 500-150867-2 Analy Batch No.: 445577

SDG No.: _____

Instrument ID: CMS12 GC Column: ZB5MS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/15/2018 17:27 Calibration End Date: 08/15/2018 22:24 Calibration ID: 29699

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
	LVL 7 #	LVL 8 #	LVL 9 #	LVL 10 #	LVL 11 #		LVL 7	LVL 8	LVL 9	LVL 10	LVL 11	
Chrysene	-0.9	-7.5	-7.6	-8.6	-7.1	-8.5	50	30	30	30	30	30
	-7.9	5.9	6.0	19.8	16.2		30	30	30	30	30	
Di-n-octyl phthalate					-20.2	-18.2						50
	-12.3	4.9	4.4	21.2	20.2		30	30	30	30	30	30
Benzo[b]fluoranthene	-9.9	-16.7	-7.6	-12.8	-7.0	-8.1	50	30	30	30	30	30
	-6.4	10.2	7.8	27.1	23.4		30	30	30	30	30	
Benzo[k]fluoranthene	-7.1	-15.9	-12.6	-12.2	-8.4	-6.6	50	30	30	30	30	30
	-5.0	6.0	11.0	25.3	25.4		30	30	30	30	30	
Benzo[a]pyrene	-8.2	-15.4	-13.1	-12.3	-7.8	-6.3	50	30	30	30	30	30
	-5.8	9.5	9.4	26.2	23.8		30	30	30	30	30	
Indeno[1,2,3-cd]pyrene	2.3	-5.4	-1.4	-0.7	4.1	2.6	50	30	30	30	30	30
	-1.7	0.6	-2.9	3.9	-1.7		30	30	30	30	30	
Dibenz(a,h)anthracene	2.4	-5.5	-0.5	-3.6	6.5	3.2	50	30	30	30	30	30
	-1.8	0.2	-4.1	4.2	-1.1		30	30	30	30	30	
Benzo[g,h,i]perylene			-12.5	-14.6	-9.7	-9.1			50	30	30	30
	-7.7	6.7	6.4	22.5	18.0		30	30	30	30	30	
2-Fluorophenol (Surr)			-0.8	-1.9	10.4	-2.0			50	30	30	30
	-3.3	-2.2	-3.1	4.6	-0.6		30	30	30	30	30	
Phenol-d5 (Surr)			33.7	-1.0	-16.8	-16.6			50	30	30	30
	-3.7	2.5	-5.4	5.4	2.0		30	30	30	30	30	
Nitrobenzene-d5 (Surr)			-14.2	-14.0	-7.4	-9.0			50	30	30	30
	-4.1	6.0	7.7	19.8	15.4		30	30	30	30	30	
2-Fluorobiphenyl (Surr)			40.6	4.6	-13.2	-21.6			50	30	30	30
	-16.8	-5.0	-3.1	9.7	4.8		30	30	30	30	30	
2,4,6-Tribromophenol (Surr)			-1.1	1.7	2.9	-2.9			50	30	30	30
	-1.0	0.7	-1.9	3.2	-1.4		30	30	30	30	30	
Terphenyl-d14 (Surr)			-19.6	-18.4	-12.0	-10.9			50	30	30	30
	-5.2	8.3	11.1	24.9	21.8		30	30	30	30	30	

TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS12\20180815-54379.b\L1STD2.D
 Lims ID: ic
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 15-Aug-2018 17:27:30 ALS Bottle#: 2 Worklist Smp#: 2
 Injection Vol: 5.0 ul Dil. Factor: 1.0000
 Sample Info: ic
 Misc. Info.: 500-0054379-002
 Operator ID: DA Instrument ID: CMS12
 Sublist: chrom-12-LVI8270*sub102
 Method: \\ChromNA\Chicago\ChromData\CMS12\20180815-54379.b\12-LVI8270.m
 Limit Group: MSBNA_8270D_ICAL
 Method Label: TestAmerica Chicago GC/MS SVOA
 Last Update: 16-Aug-2018 08:18:08 Calib Date: 15-Aug-2018 22:24:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Chicago\ChromData\CMS12\20180815-54379.b\L1STD70.D
 Column 1 : ZB5MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK005

First Level Reviewer: rynkarg Date: 15-Aug-2018 18:23:46

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.376	6.381	-0.005	96	100708	3.20	3.20	
* 2 Naphthalene-d8	136	7.442	7.442	0.000	99	478391	3.20	3.20	
* 3 Acenaphthene-d10	164	8.916	8.921	-0.005	97	257365	3.20	3.20	
* 4 Phenanthrene-d10	188	10.171	10.171	0.000	98	441747	3.20	3.20	
* 5 Chrysene-d12	240	13.467	13.472	-0.005	99	350836	3.20	3.20	
* 6 Perylene-d12	264	17.124	17.129	-0.005	98	350816	3.20	3.20	
\$ 7 2-Fluorophenol	112	5.283	5.287	-0.004	91	7374	0.4000	0.3923	
\$ 8 Phenol-d5	99	6.034	6.048	-0.014	96	10119	0.4000	0.3960	
\$ 9 Nitrobenzene-d5	82	6.823	6.833	-0.010	93	13838	0.4000	0.3439	
\$ 10 2-Fluorobiphenyl	172	8.326	8.331	-0.005	99	32113	0.4000	0.4182	
\$ 11 2,4,6-Tribromophenol	330	9.577	9.582	-0.005	68	7891	0.4000	0.4070	
\$ 12 Terphenyl-d14	244	11.769	11.769	0.000	98	30651	0.4000	0.3265	
14 N-Nitrosodimethylamine	42	3.984	3.994	-0.010	71	11600	0.4000	0.3934	
27 Bis(2-chloroethyl)ether	93	6.129	6.134	-0.005	97	13220	0.4000	0.3745	
30 n-Decane	43	6.229	6.229	0.000	87	20417	0.4000	0.3790	a
31 1,3-Dichlorobenzene	146	6.338	6.338	0.000	99	16517	0.4000	0.3372	
32 1,4-Dichlorobenzene	146	6.391	6.395	-0.004	97	17335	0.4000	0.3440	
34 1,2-Dichlorobenzene	146	6.524	6.529	-0.005	97	16303	0.4000	0.3386	
36 2-Methylphenol	107	6.548	6.557	-0.009	95	9128	0.4000	0.3176	
35 2,2'-oxybis[1-chloropropan	45	6.576	6.581	-0.005	88	29440	0.4000	0.3852	
42 3 & 4 Methylphenol	108	6.671	6.681	-0.010	97	11118	0.4000	0.3072	
41 N-Nitrosodi-n-propylamine	70	6.681	6.695	-0.014	75	10305	0.4000	0.4222	
40 Acetophenone	105	6.690	6.700	-0.010	94	20715	0.4000	0.3838	
45 Nitrobenzene	77	6.842	6.847	-0.005	92	12621	0.4000	0.3421	
47 Isophorone	82	7.033	7.042	-0.009	97	26143	0.4000	0.3951	
51 Bis(2-chloroethoxy)methane	93	7.190	7.199	-0.009	97	18688	0.4000	0.3771	
55 1,2,4-Trichlorobenzene	180	7.389	7.389	0.000	95	13430	0.4000	0.5301	
56 Naphthalene	128	7.461	7.461	0.000	99	49295	0.4000	0.3490	
60 Hexachlorobutadiene	225	7.560	7.561	-0.001	96	7815	0.4000	0.5408	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
67 2-Methylnaphthalene	142	8.031	8.036	-0.005	95	34985	0.4000	0.3577	
68 1-Methylnaphthalene	142	8.117	8.122	-0.005	94	32969	0.4000	0.3528	
76 2-Chloronaphthalene	162	8.445	8.450	-0.005	97	31596	0.4000	0.3031	
82 Dimethyl phthalate	163	8.640	8.650	-0.010	98	33921	0.4000	0.3321	
84 2,6-Dinitrotoluene	165	8.697	8.707	-0.010	91	6436	0.4000	0.3888	
85 Acenaphthylene	152	8.797	8.802	-0.005	98	44799	0.4000	0.3263	
87 Acenaphthene	153	8.944	8.949	-0.005	91	33181	0.4000	0.3144	
91 2,4-Dinitrotoluene	165	9.039	9.049	-0.010	91	7945	0.4000	0.4110	
92 Dibenzofuran	168	9.082	9.092	-0.010	96	42969	0.4000	0.3123	
97 Diethyl phthalate	149	9.225	9.235	-0.010	98	34590	0.4000	0.3120	
102 Fluorene	166	9.372	9.377	-0.005	93	33350	0.4000	0.4119	
106 N-Nitrosodiphenylamine	169	9.444	9.453	-0.009	67	22588	0.4000	0.3979	a
117 Hexachlorobenzene	284	9.853	9.858	-0.005	97	13681	0.4000	0.3816	
123 n-Octadecane	43	10.005	10.005	0.000	90	24581	0.4000	0.4229	a
126 Phenanthrene	178	10.190	10.195	-0.005	97	47260	0.4000	0.3939	
127 Anthracene	178	10.233	10.238	-0.005	98	47395	0.4000	0.3894	
128 Carbazole	167	10.352	10.357	-0.005	96	42575	0.4000	0.3178	
130 Di-n-butyl phthalate	149	10.614	10.614	0.000	99	52844	0.4000	0.3102	a
135 Fluoranthene	202	11.346	11.351	-0.005	98	44730	0.4000	0.3881	
137 Pyrene	202	11.622	11.627	-0.005	95	45704	0.4000	0.3443	
145 Butyl benzyl phthalate	149	12.421	12.421	0.000	97	20886	0.4000	0.3523	
150 Bis(2-ethylhexyl) phthalat	149	13.443	13.443	0.000	88	29863	0.4000	0.3280	
149 Benzo[a]anthracene	228	13.443	13.453	-0.010	99	44472	0.4000	0.3392	
151 Chrysene	228	13.514	13.524	-0.010	98	39887	0.4000	0.3657	
156 Benzo[b]fluoranthene	252	15.926	15.949	-0.023	98	38313	0.4000	0.3489	
157 Benzo[k]fluoranthene	252	16.006	16.035	-0.029	99	40174	0.4000	0.3513	
158 Benzo[a]pyrene	252	16.919	16.953	-0.034	96	37259	0.4000	0.3509	
162 Indeno[1,2,3-cd]pyrene	276	20.049	20.082	-0.033	99	45574	0.4000	0.3971	
163 Dibenz(a,h)anthracene	278	20.110	20.144	-0.034	93	35006	0.4000	0.3856	
164 Benzo[g,h,i]perylene	276	20.691	20.734	-0.043	97	39263	0.4000	0.3415	
S 173 Methyl Phenols,Total	1				0			0.6248	

QC Flag Legend

Review Flags

a - User Assigned ID

Reagents:

SM1st1_5uLL4_00044

Amount Added: 1.00

Units: mL

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS12\20180815-54379.b\L1STD2.D

Injection Date: 15-Aug-2018 17:27:30

Instrument ID: CMS12

Operator ID: DA

Lims ID: ic

Worklist Smp#: 2

Client ID:

Injection Vol: 5.0 ul

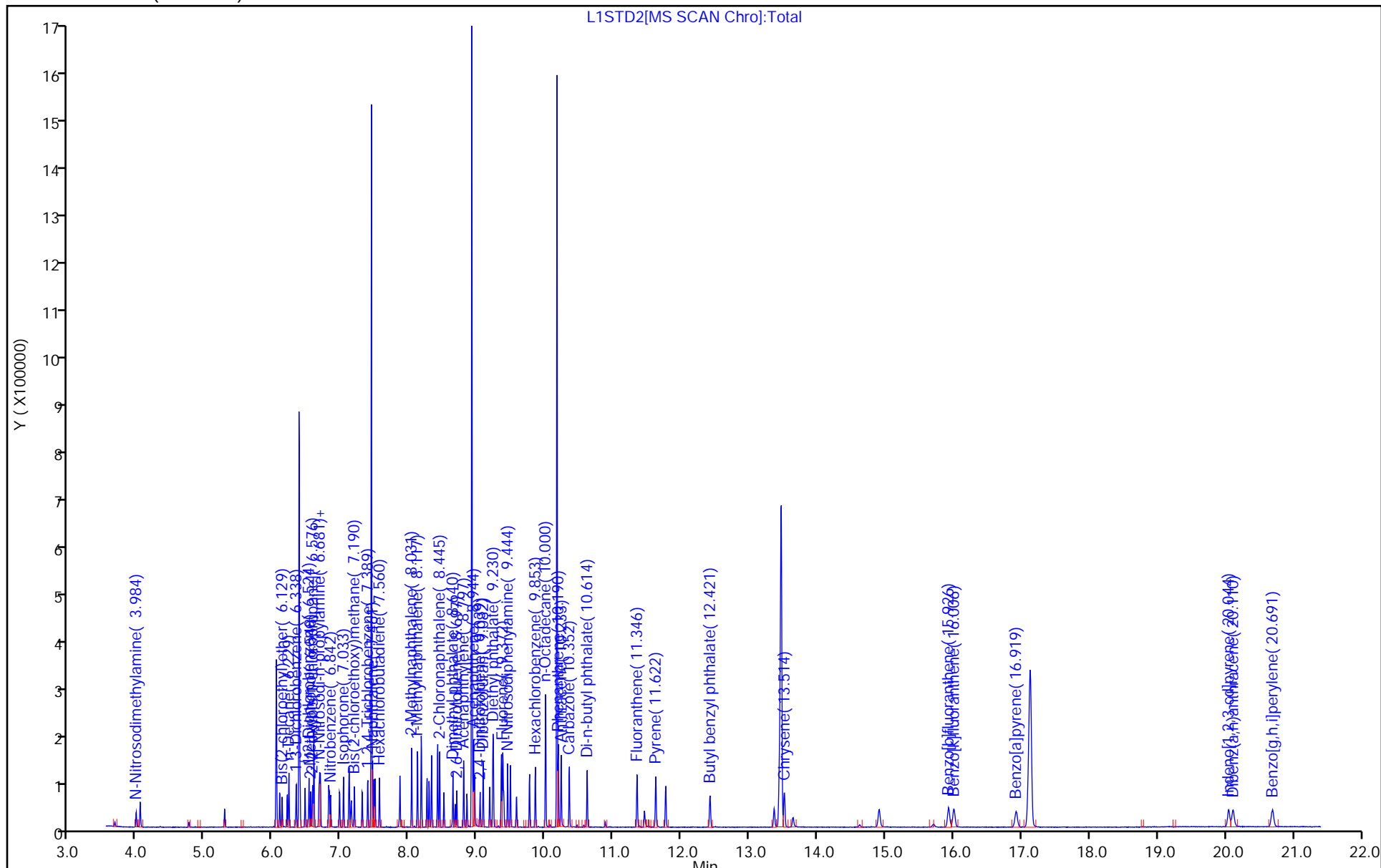
Dil. Factor: 1.0000

ALS Bottle#: 2

Method: 12-LVI8270

Limit Group: MSBNA_8270D_ICAL

Column: ZB5MS (0.25 mm)



TestAmerica Chicago

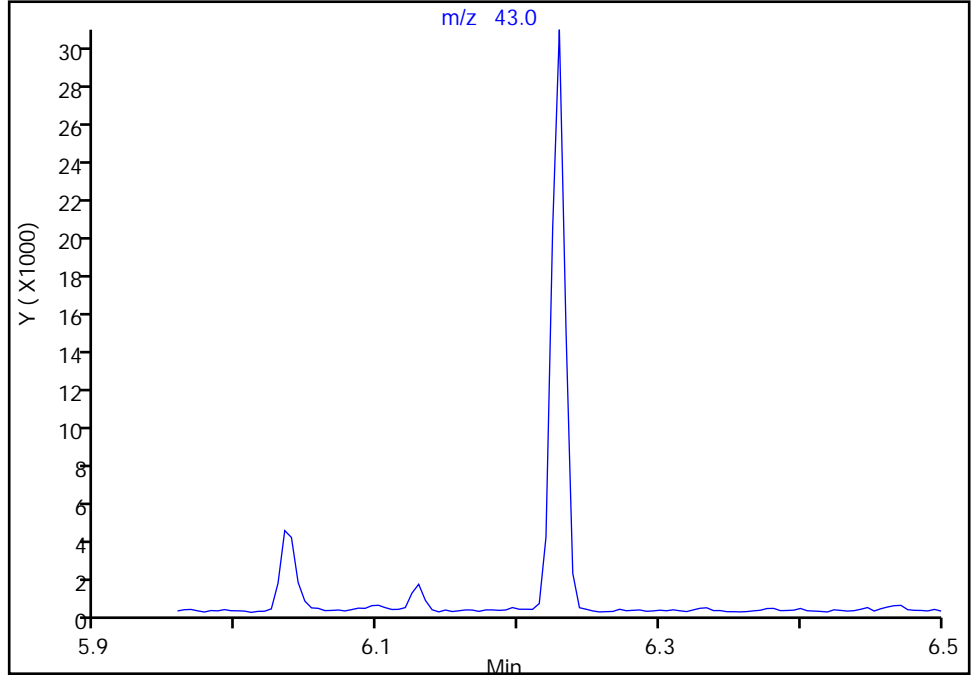
Data File: \\ChromNA\Chicago\ChromData\CMS12\20180815-54379.b\L1STD2.D
Injection Date: 15-Aug-2018 17:27:30 Instrument ID: CMS12
Lims ID: ic
Client ID:
Operator ID: DA ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: 12-LVI8270 Limit Group: MSBNA_8270D_ICAL
Column: ZB5MS (0.25 mm) Detector: MS SCAN

30 n-Decane, CAS: 124-18-5

Signal: 1

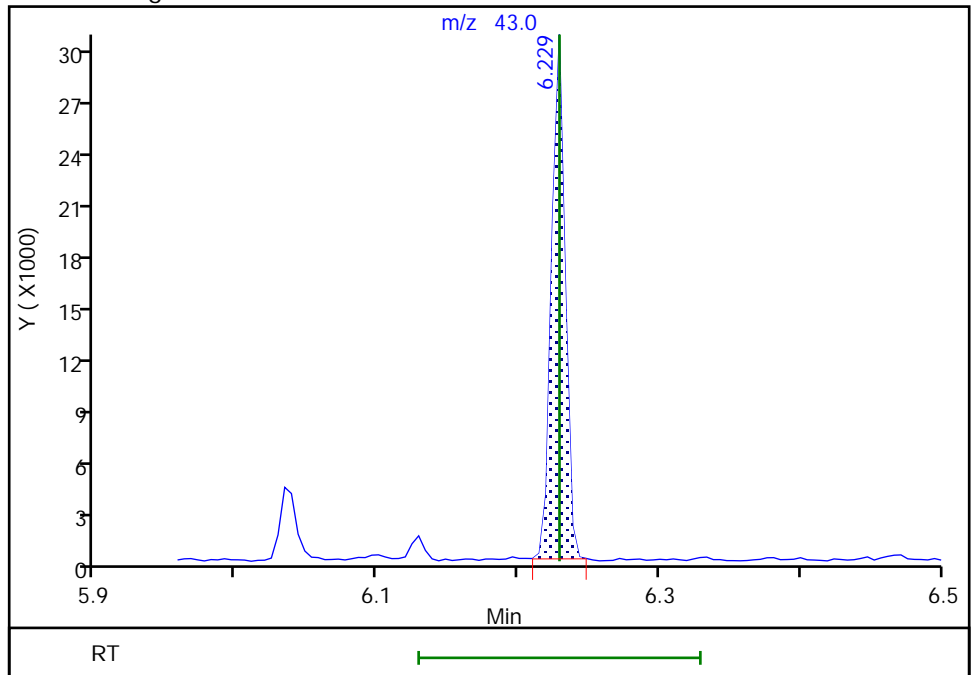
Not Detected
Expected RT: 6.23

Processing Integration Results



Manual Integration Results

RT: 6.23
Area: 20417
Amount: 0.378972
Amount Units: ug/ml



Reviewer: rynkarg, 15-Aug-2018 18:28:43
Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

TestAmerica Chicago

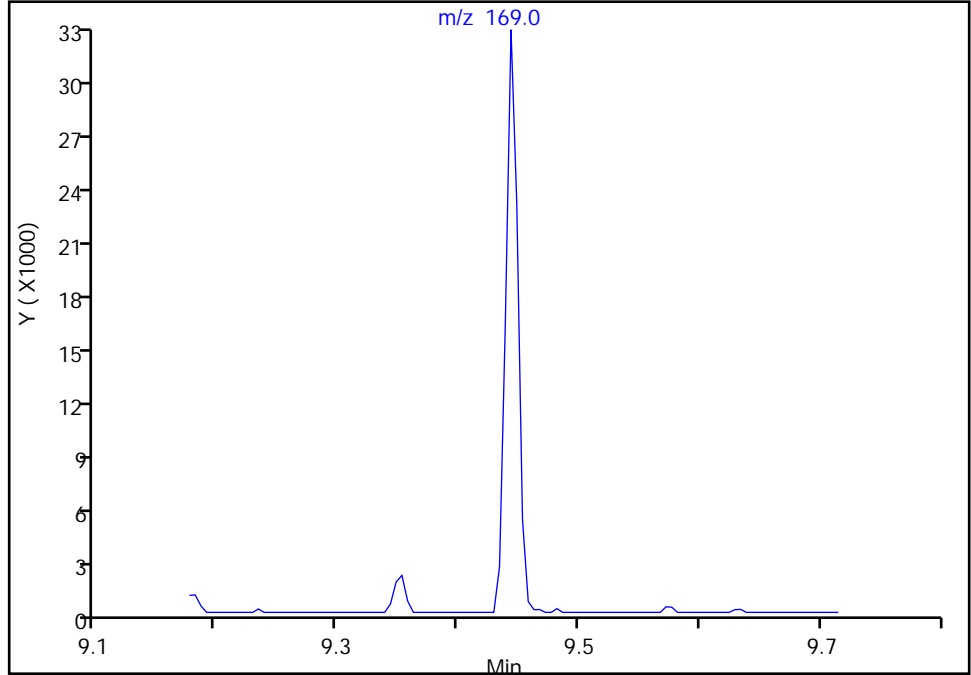
Data File: \\ChromNA\Chicago\ChromData\CMS12\20180815-54379.b\L1STD2.D
Injection Date: 15-Aug-2018 17:27:30 Instrument ID: CMS12
Lims ID: ic
Client ID:
Operator ID: DA ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: 12-LVI8270 Limit Group: MSBNA_8270D_ICAL
Column: ZB5MS (0.25 mm) Detector: MS SCAN

106 N-Nitrosodiphenylamine, CAS: 86-30-6

Signal: 1

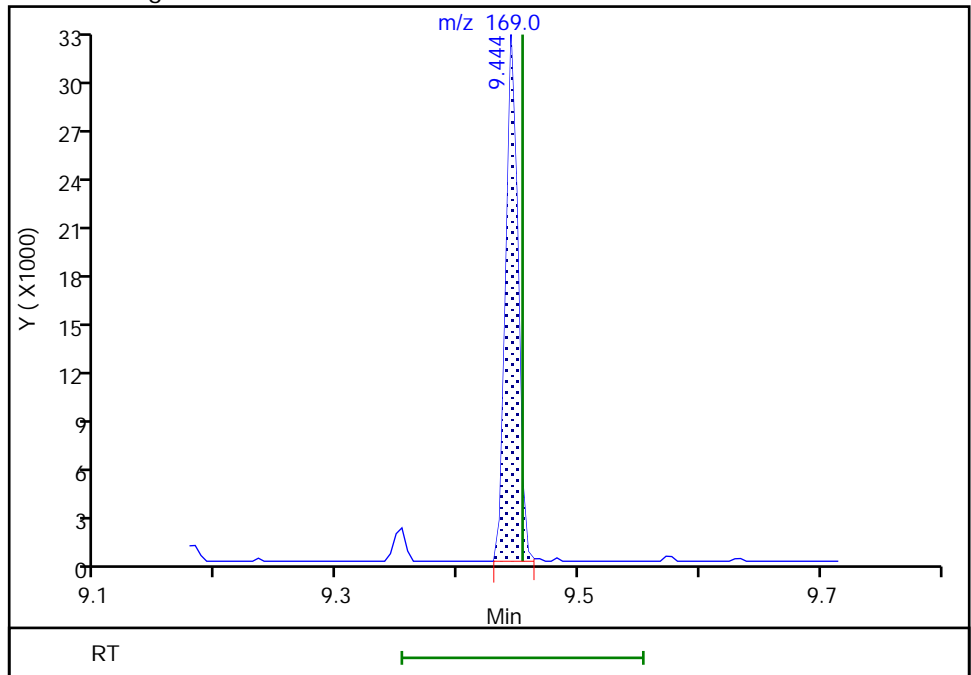
Not Detected
Expected RT: 9.45

Processing Integration Results



Manual Integration Results

RT: 9.44
Area: 22588
Amount: 0.397912
Amount Units: ug/ml



Reviewer: rynkarg, 15-Aug-2018 18:25:40
Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

TestAmerica Chicago

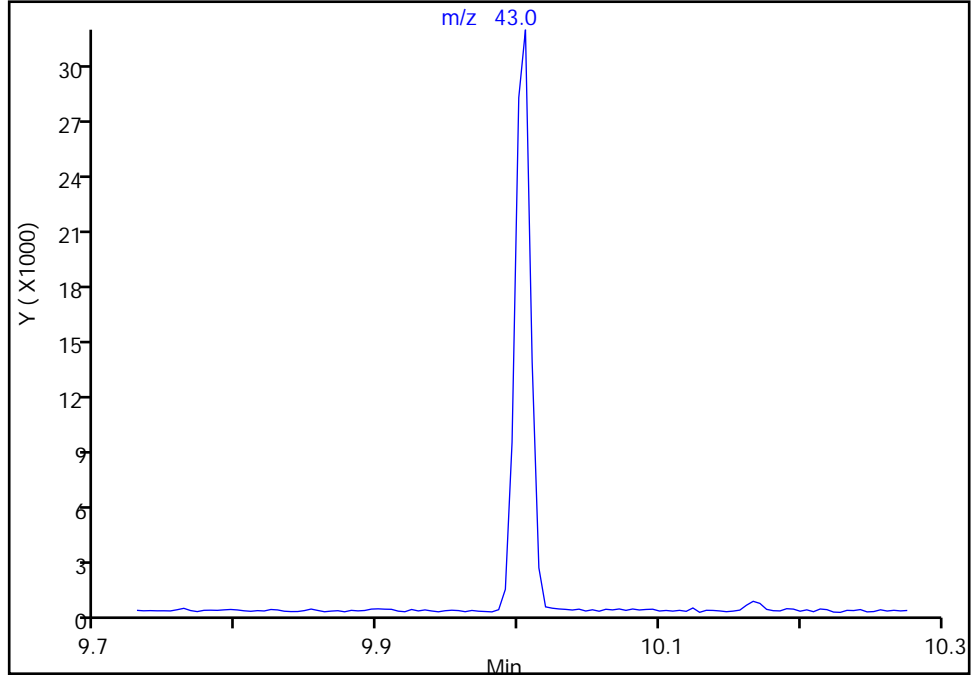
Data File: \\ChromNA\Chicago\ChromData\CMS12\20180815-54379.b\L1STD2.D
Injection Date: 15-Aug-2018 17:27:30 Instrument ID: CMS12
Lims ID: ic
Client ID:
Operator ID: DA ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: 12-LVI8270 Limit Group: MSBNA_8270D_ICAL
Column: ZB5MS (0.25 mm) Detector: MS SCAN

123 n-Octadecane, CAS: 593-45-3

Signal: 1

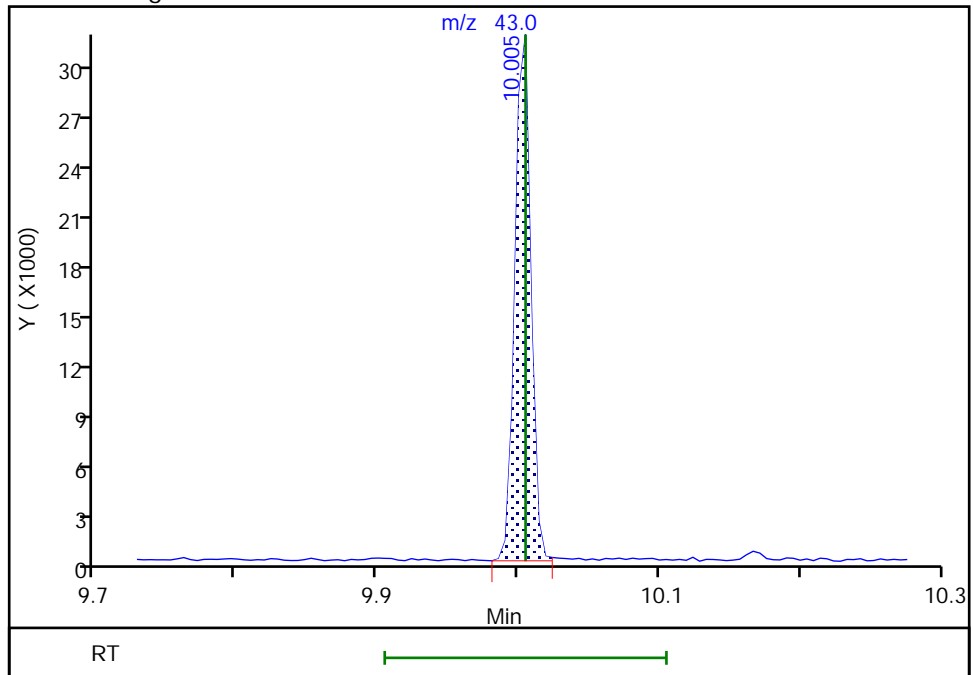
Not Detected
Expected RT: 10.00

Processing Integration Results



Manual Integration Results

RT: 10.00
Area: 24581
Amount: 0.422918
Amount Units: ug/ml



TestAmerica Chicago

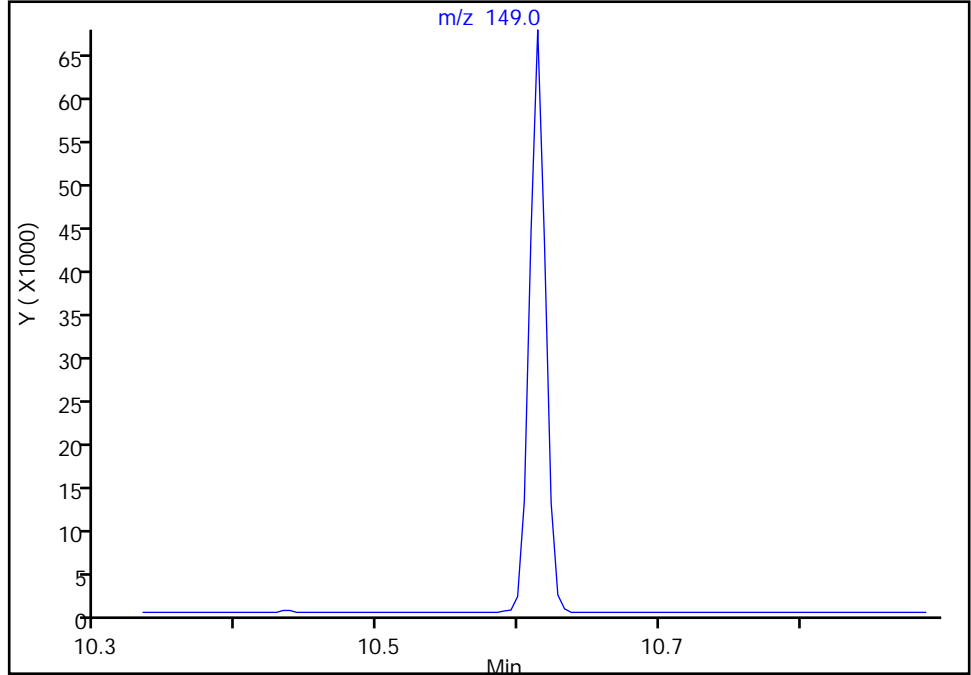
Data File: \\ChromNA\Chicago\ChromData\CMS12\20180815-54379.b\L1STD2.D
Injection Date: 15-Aug-2018 17:27:30 Instrument ID: CMS12
Lims ID: ic
Client ID:
Operator ID: DA ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: 12-LVI8270 Limit Group: MSBNA_8270D_ICAL
Column: ZB5MS (0.25 mm) Detector: MS SCAN

130 Di-n-butyl phthalate, CAS: 84-74-2

Signal: 1

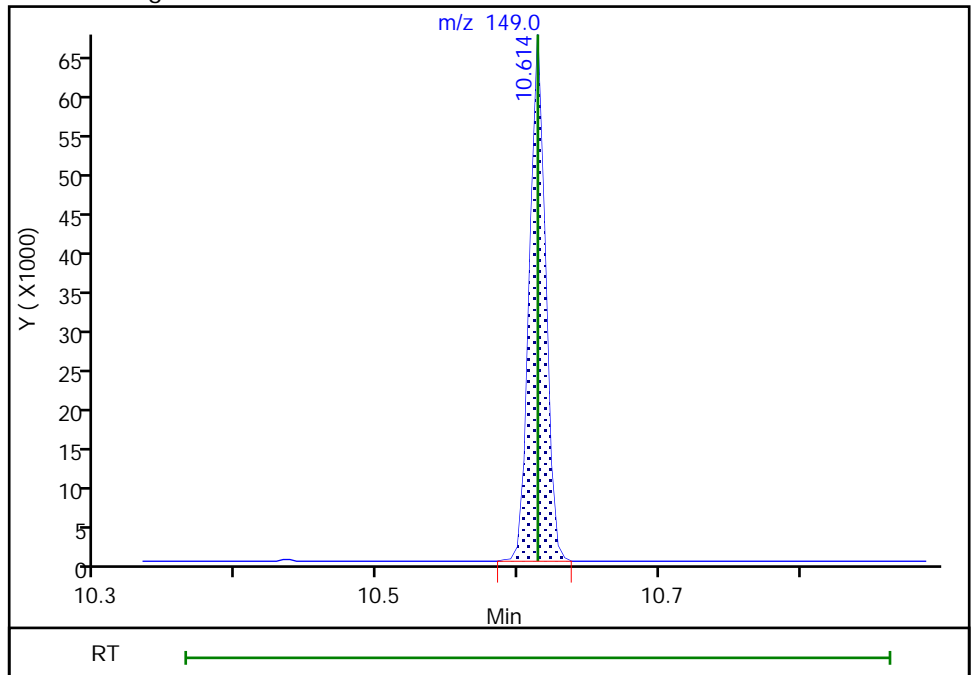
Not Detected
Expected RT: 10.61

Processing Integration Results



Manual Integration Results

RT: 10.61
Area: 52844
Amount: 0.310150
Amount Units: ug/ml



TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS12\20180815-54379.b\L1STD02.D
 Lims ID: ic
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 15-Aug-2018 17:57:30 ALS Bottle#: 3 Worklist Smp#: 3
 Injection Vol: 5.0 ul Dil. Factor: 1.0000
 Sample Info: ic
 Misc. Info.: 500-0054379-003
 Operator ID: DA Instrument ID: CMS12
 Sublist: chrom-12-LVI8270*sub102
 Method: \\ChromNA\Chicago\ChromData\CMS12\20180815-54379.b\12-LVI8270.m
 Limit Group: MSBNA_8270D_ICAL
 Method Label: TestAmerica Chicago GC/MS SVOA
 Last Update: 16-Aug-2018 08:18:19 Calib Date: 15-Aug-2018 22:24:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Chicago\ChromData\CMS12\20180815-54379.b\L1STD70.D
 Column 1 : ZB5MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK005

First Level Reviewer: rynkarg Date: 15-Aug-2018 18:25:17

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.376	6.381	-0.005	96	99204	3.20	3.20	
* 2 Naphthalene-d8	136	7.442	7.442	0.000	99	440287	3.20	3.20	
* 3 Acenaphthene-d10	164	8.916	8.921	-0.005	96	247674	3.20	3.20	
* 4 Phenanthrene-d10	188	10.167	10.171	-0.004	97	425296	3.20	3.20	
* 5 Chrysene-d12	240	13.462	13.472	-0.010	99	342692	3.20	3.20	
* 6 Perylene-d12	264	17.119	17.129	-0.010	98	352739	3.20	3.20	
149 Benzo[a]anthracene	228	13.443	13.453	-0.010	93	5589	0.0400	0.0436	
151 Chrysene	228	13.510	13.524	-0.014	96	4225	0.0400	0.0397	
156 Benzo[b]fluoranthene	252	15.926	15.949	-0.023	37	3981	0.0400	0.0361	
157 Benzo[k]fluoranthene	252	16.006	16.035	-0.029	93	4275	0.0400	0.0372	a
158 Benzo[a]pyrene	252	16.915	16.953	-0.038	94	3919	0.0400	0.0367	
162 Indeno[1,2,3-cd]pyrene	276	20.044	20.082	-0.038	89	4398	0.0400	0.0409	
163 Dibenz(a,h)anthracene	278	20.106	20.144	-0.038	1	3516	0.0400	0.0409	

QC Flag Legend

Review Flags

a - User Assigned ID

Reagents:

SMLst1_5uLL1_00043

Amount Added: 1.00

Units: mL

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS12\20180815-54379.b\L1STD02.D

Injection Date: 15-Aug-2018 17:57:30

Instrument ID: CMS12

Operator ID: DA

Lims ID: ic

Worklist Smp#: 3

Client ID:

Injection Vol: 5.0 ul

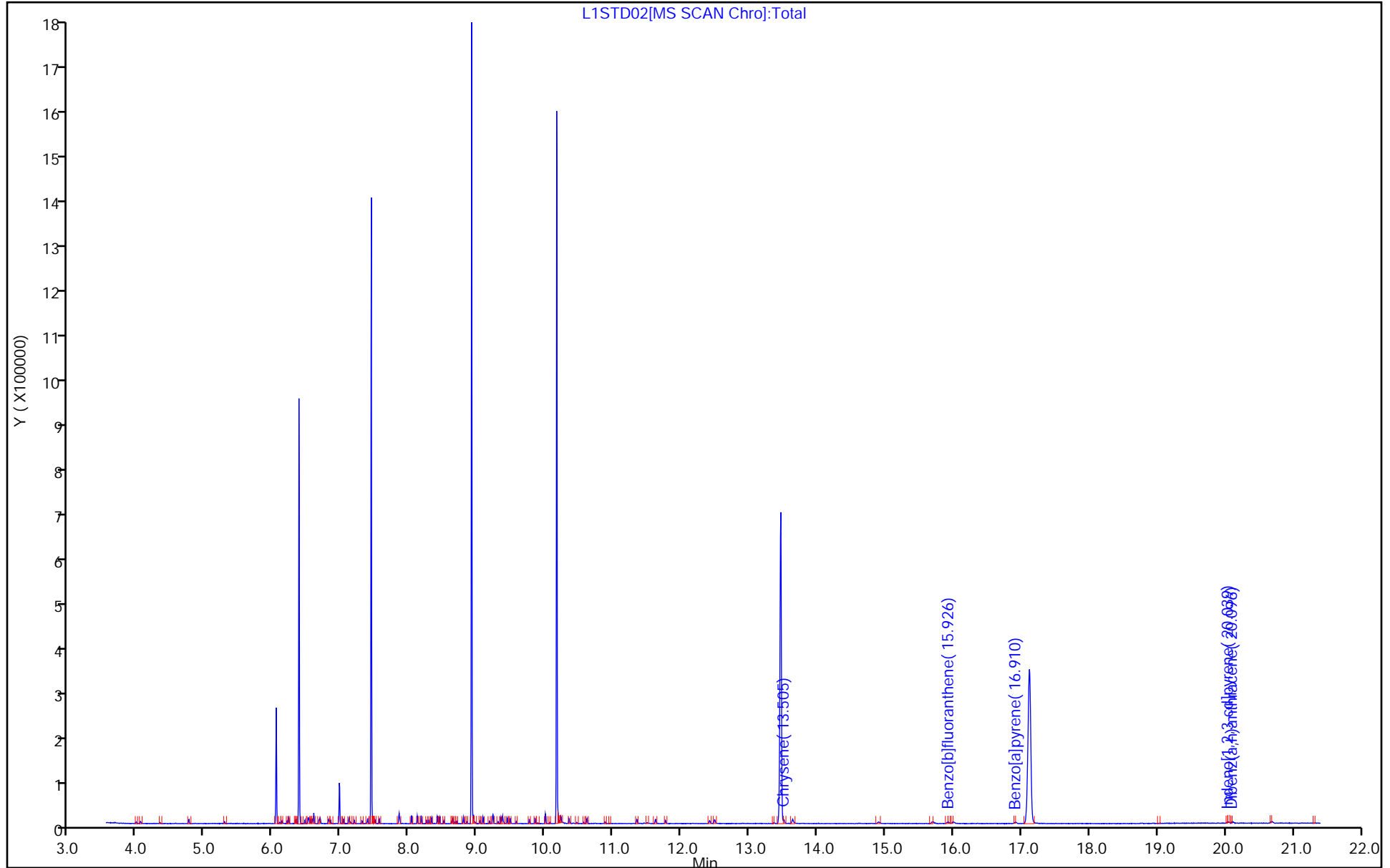
Dil. Factor: 1.0000

ALS Bottle#: 3

Method: 12-LVI8270

Limit Group: MSBNA_8270D_ICAL

Column: ZB5MS (0.25 mm)



TestAmerica Chicago

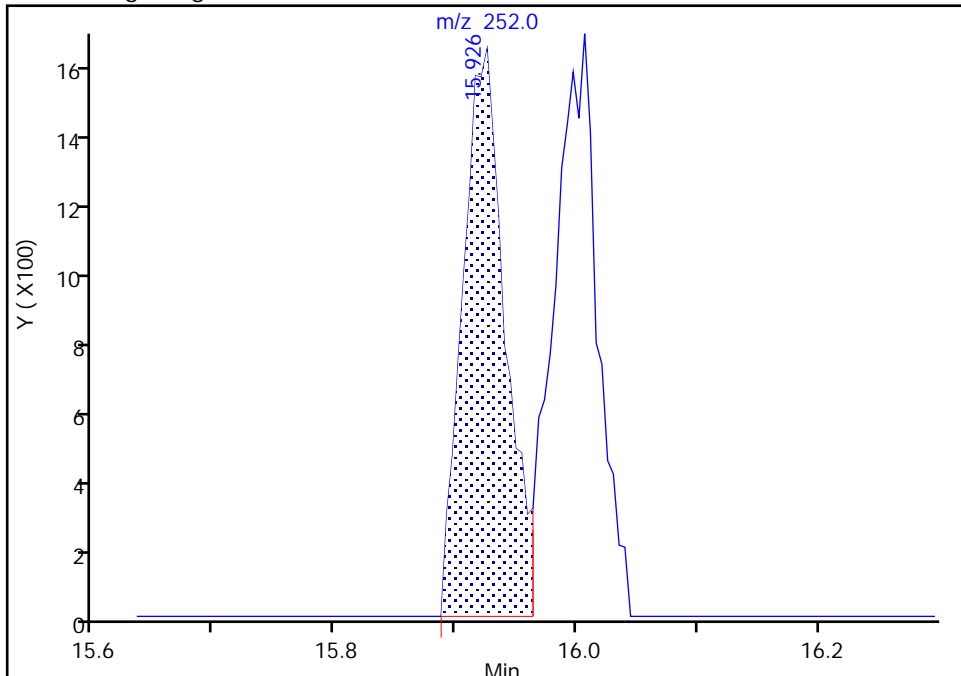
Data File: \\ChromNA\Chicago\ChromData\CMS12\20180815-54379.b\L1STD02.D
Injection Date: 15-Aug-2018 17:57:30 Instrument ID: CMS12
Lims ID: ic
Client ID:
Operator ID: DA ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: 12-LVI8270 Limit Group: MSBNA_8270D_ICAL
Column: ZB5MS (0.25 mm) Detector: MS SCAN

157 Benzo[k]fluoranthene, CAS: 207-08-9

Signal: 1

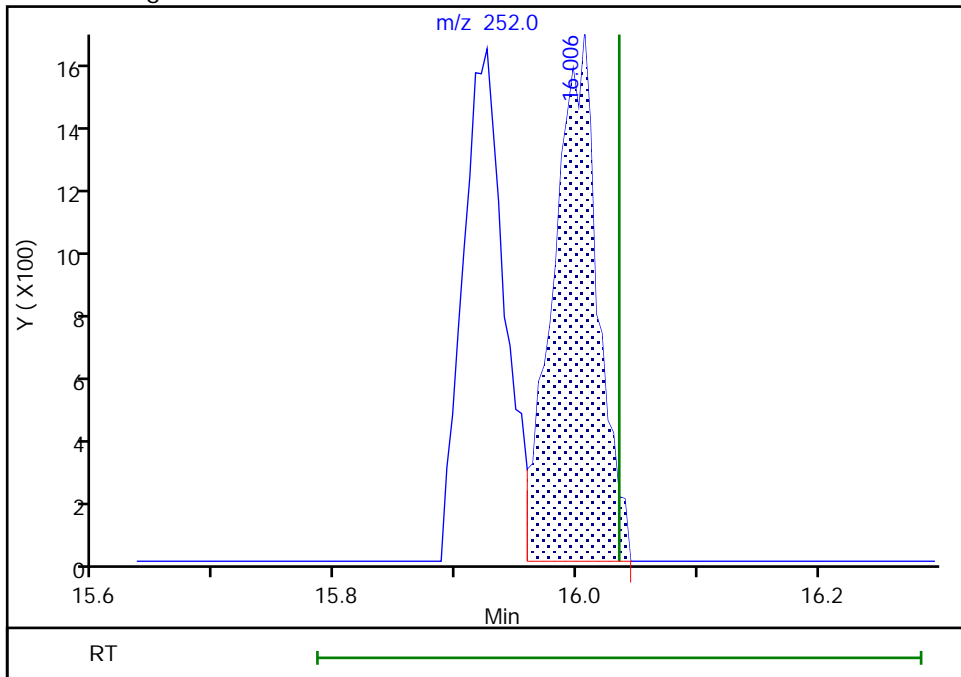
RT: 15.93
Area: 3981
Amount: 0.040000
Amount Units: ug/ml

Processing Integration Results



RT: 16.01
Area: 4275
Amount: 0.037178
Amount Units: ug/ml

Manual Integration Results



Reviewer: rynkarg, 15-Aug-2018 18:24:01
Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS12\20180815-54379.b\L1STD05.D
 Lims ID: ic
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 15-Aug-2018 18:27:30 ALS Bottle#: 4 Worklist Smp#: 4
 Injection Vol: 5.0 ul Dil. Factor: 1.0000
 Sample Info: ic
 Misc. Info.: 500-0054379-004
 Operator ID: DA Instrument ID: CMS12
 Sublist: chrom-12-LVI8270*sub102
 Method: \\ChromNA\Chicago\ChromData\CMS12\20180815-54379.b\12-LVI8270.m
 Limit Group: MSBNA_8270D_ICAL
 Method Label: TestAmerica Chicago GC/MS SVOA
 Last Update: 16-Aug-2018 08:18:28 Calib Date: 15-Aug-2018 22:24:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Chicago\ChromData\CMS12\20180815-54379.b\L1STD70.D
 Column 1 : ZB5MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK005

First Level Reviewer: rynkarg Date: 15-Aug-2018 21:48:00

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.376	6.381	-0.005	96	105114	3.20	3.20	
* 2 Naphthalene-d8	136	7.442	7.442	0.000	99	444879	3.20	3.20	
* 3 Acenaphthene-d10	164	8.916	8.921	-0.005	97	263695	3.20	3.20	
* 4 Phenanthrene-d10	188	10.167	10.171	-0.004	98	456771	3.20	3.20	
* 5 Chrysene-d12	240	13.462	13.472	-0.010	99	362925	3.20	3.20	
* 6 Perylene-d12	264	17.119	17.129	-0.010	98	369353	3.20	3.20	
41 N-Nitrosodi-n-propylamine	70	6.681	6.695	-0.014	74	2474	0.1000	0.0971	
67 2-Methylnaphthalene	142	8.031	8.036	-0.005	95	8749	0.1000	0.0962	
84 2,6-Dinitrotoluene	165	8.697	8.707	-0.010	86	1461	0.1000	0.1011	
117 Hexachlorobenzene	284	9.853	9.858	-0.005	94	3525	0.1000	0.0989	
149 Benzo[a]anthracene	228	13.438	13.453	-0.015	98	12052	0.1000	0.0889	
151 Chrysene	228	13.510	13.524	-0.014	97	10440	0.1000	0.0925	
156 Benzo[b]fluoranthene	252	15.926	15.949	-0.023	97	9633	0.1000	0.0833	
157 Benzo[k]fluoranthene	252	16.002	16.035	-0.033	96	10123	0.1000	0.0841	a
158 Benzo[a]pyrene	252	16.915	16.953	-0.038	88	9453	0.1000	0.0846	
162 Indeno[1,2,3-cd]pyrene	276	20.039	20.082	-0.043	96	11071	0.1000	0.0946	
163 Dibenz(a,h)anthracene	278	20.101	20.144	-0.043	92	8754	0.1000	0.0945	

QC Flag Legend

Review Flags

a - User Assigned ID

Reagents:

SMLst1_5uLL2_00042

Amount Added: 1.00

Units: mL

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS12\20180815-54379.b\L1STD05.D

Injection Date: 15-Aug-2018 18:27:30

Instrument ID: CMS12

Operator ID: DA

Lims ID: ic

Worklist Smp#: 4

Client ID:

Injection Vol: 5.0 ul

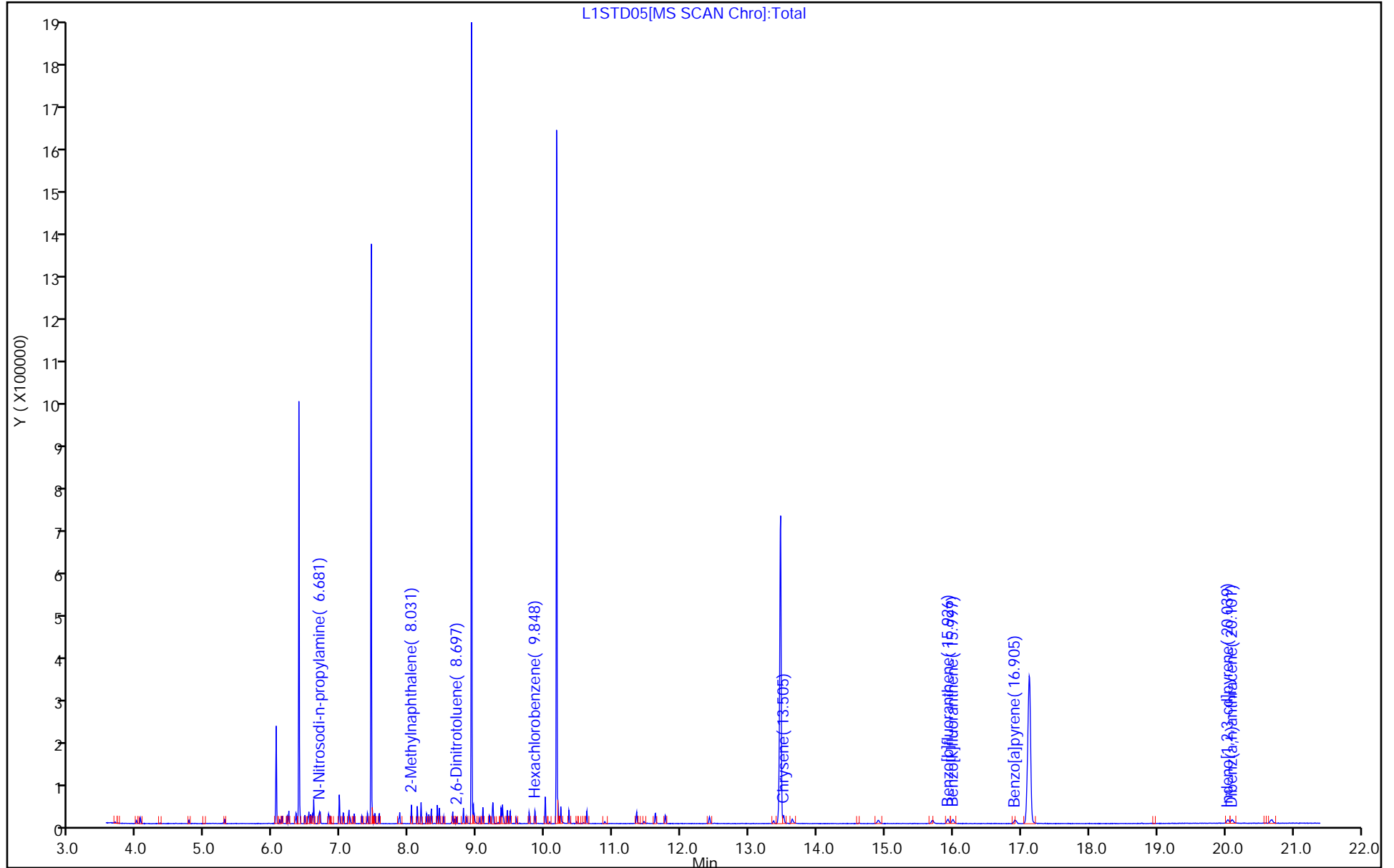
Dil. Factor: 1.0000

ALS Bottle#: 4

Method: 12-LVI8270

Limit Group: MSBNA_8270D_ICAL

Column: ZB5MS (0.25 mm)



TestAmerica Chicago

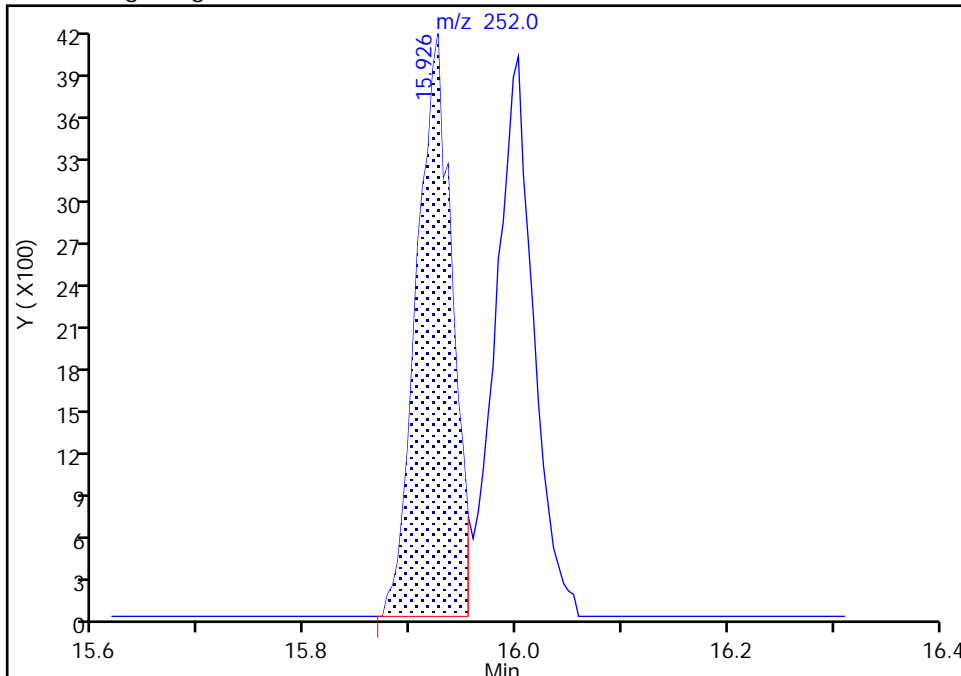
Data File: \\ChromNA\Chicago\ChromData\CMS12\20180815-54379.b\L1STD05.D
Injection Date: 15-Aug-2018 18:27:30 Instrument ID: CMS12
Lims ID: ic
Client ID:
Operator ID: DA ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: 12-LVI8270 Limit Group: MSBNA_8270D_ICAL
Column: ZB5MS (0.25 mm) Detector: MS SCAN

157 Benzo[k]fluoranthene, CAS: 207-08-9

Signal: 1

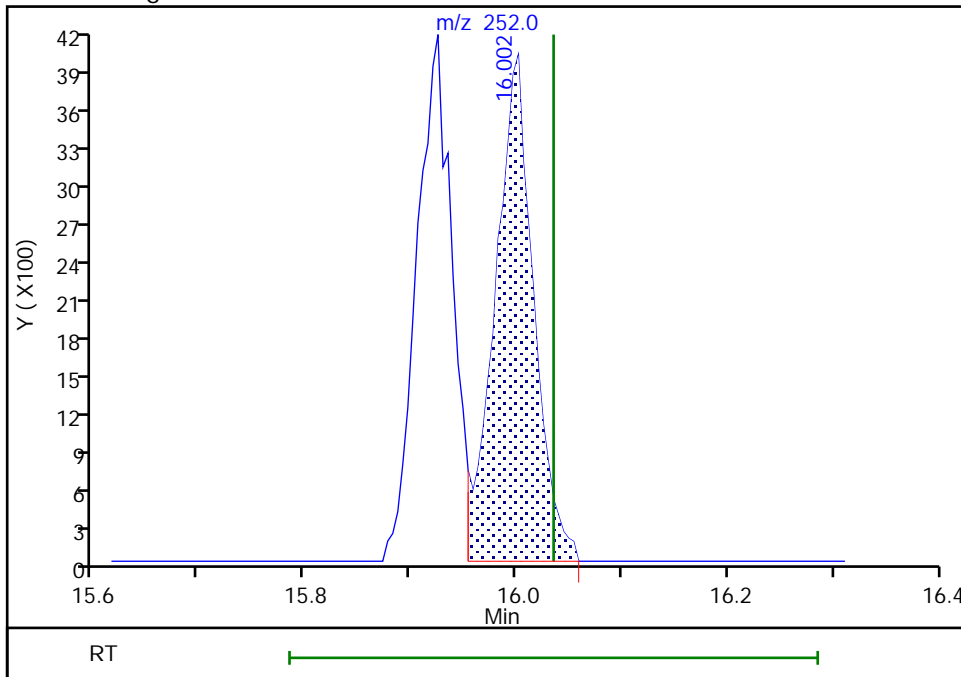
RT: 15.93
Area: 9633
Amount: 0.087179
Amount Units: ug/ml

Processing Integration Results



RT: 16.00
Area: 10123
Amount: 0.084077
Amount Units: ug/ml

Manual Integration Results



Reviewer: rynkarg, 15-Aug-2018 21:47:55
Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS12\20180815-54379.b\L1STD1.D
 Lims ID: ic
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 15-Aug-2018 18:56:30 ALS Bottle#: 5 Worklist Smp#: 5
 Injection Vol: 5.0 ul Dil. Factor: 1.0000
 Sample Info: ic
 Misc. Info.: 500-0054379-005
 Operator ID: DA Instrument ID: CMS12
 Sublist: chrom-12-LVI8270*sub102

Method: \\ChromNA\Chicago\ChromData\CMS12\20180815-54379.b\12-LVI8270.m
 Limit Group: MSBNA_8270D_ICAL
 Method Label: TestAmerica Chicago GC/MS SVOA
 Last Update: 16-Aug-2018 08:18:35 Calib Date: 15-Aug-2018 22:24:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Chicago\ChromData\CMS12\20180815-54379.b\L1STD70.D

Column 1 : ZB5MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK005

First Level Reviewer: rynkarg

Date: 15-Aug-2018 21:48:28

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.376	6.381	-0.005	95	111822	3.20	3.20	
* 2 Naphthalene-d8	136	7.442	7.442	0.000	99	438065	3.20	3.20	
* 3 Acenaphthene-d10	164	8.916	8.921	-0.005	97	258718	3.20	3.20	
* 4 Phenanthrene-d10	188	10.167	10.171	-0.004	98	440315	3.20	3.20	
* 5 Chrysene-d12	240	13.462	13.472	-0.010	99	347055	3.20	3.20	
* 6 Perylene-d12	264	17.124	17.129	-0.005	98	354720	3.20	3.20	
\$ 7 2-Fluorophenol	112	5.283	5.287	-0.004	92	4362	0.2000	0.1985	
\$ 8 Phenol-d5	99	6.034	6.048	-0.014	96	5261	0.2000	0.2674	
\$ 9 Nitrobenzene-d5	82	6.823	6.833	-0.010	93	6319	0.2000	0.1715	
\$ 10 2-Fluorobiphenyl	172	8.326	8.331	-0.005	98	15107	0.2000	0.2811	
\$ 11 2,4,6-Tribromophenol	330	9.577	9.582	-0.005	66	3512	0.2000	0.1977	
\$ 12 Terphenyl-d14	244	11.764	11.769	-0.005	97	14923	0.2000	0.1607	
30 n-Decane	43	6.229	6.229	0.000	88	11750	0.2000	0.1964	
41 N-Nitrosodi-n-propylamine	70	6.681	6.695	-0.014	75	4875	0.2000	0.1799	
40 Acetophenone	105	6.690	6.700	-0.010	92	9472	0.2000	0.1580	
45 Nitrobenzene	77	6.838	6.847	-0.009	92	5697	0.2000	0.1686	
56 Naphthalene	128	7.456	7.461	-0.005	99	21853	0.2000	0.1690	
67 2-Methylnaphthalene	142	8.031	8.036	-0.005	94	16971	0.2000	0.1895	
68 1-Methylnaphthalene	142	8.117	8.122	-0.005	95	16354	0.2000	0.1911	
84 2,6-Dinitrotoluene	165	8.697	8.707	-0.010	92	3096	0.2000	0.1969	
85 Acenaphthylene	152	8.797	8.802	-0.005	98	22198	0.2000	0.1608	
87 Acenaphthene	153	8.944	8.949	-0.005	91	16327	0.2000	0.1539	
91 2,4-Dinitrotoluene	165	9.039	9.049	-0.010	90	3847	0.2000	0.2793	
102 Fluorene	166	9.372	9.377	-0.005	93	16886	0.2000	0.2868	
106 N-Nitrosodiphenylamine	169	9.444	9.453	-0.009	67	11059	0.2000	0.2006	
117 Hexachlorobenzene	284	9.853	9.858	-0.005	97	7344	0.2000	0.2092	
126 Phenanthrene	178	10.186	10.195	-0.009	98	23417	0.2000	0.2021	
127 Anthracene	178	10.228	10.238	-0.010	99	23495	0.2000	0.2030	
135 Fluoranthene	202	11.346	11.351	-0.005	99	22908	0.2000	0.2023	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
137 Pyrene	202	11.622	11.627	-0.005	95	23051	0.2000	0.1755	
149 Benzo[a]anthracene	228	13.438	13.453	-0.015	99	23048	0.2000	0.1777	
151 Chrysene	228	13.510	13.524	-0.014	97	19949	0.2000	0.1849	
156 Benzo[b]fluoranthene	252	15.921	15.949	-0.028	98	20523	0.2000	0.1848	
157 Benzo[k]fluoranthene	252	16.002	16.035	-0.033	97	20215	0.2000	0.1748	
158 Benzo[a]pyrene	252	16.919	16.953	-0.034	93	18659	0.2000	0.1738	
162 Indeno[1,2,3-cd]pyrene	276	20.044	20.082	-0.038	97	22553	0.2000	0.1972	
163 Dibenz(a,h)anthracene	278	20.110	20.144	-0.034	93	18004	0.2000	0.1990	
164 Benzo[g,h,i]perylene	276	20.686	20.734	-0.048	97	20345	0.2000	0.1750	

Reagents:

SM1st1_5uLL3_00042

Amount Added: 1.00

Units: mL

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS12\20180815-54379.b\L1STD1.D

Injection Date: 15-Aug-2018 18:56:30

Instrument ID: CMS12

Operator ID: DA

Lims ID: ic

Worklist Smp#: 5

Client ID:

Injection Vol: 5.0 ul

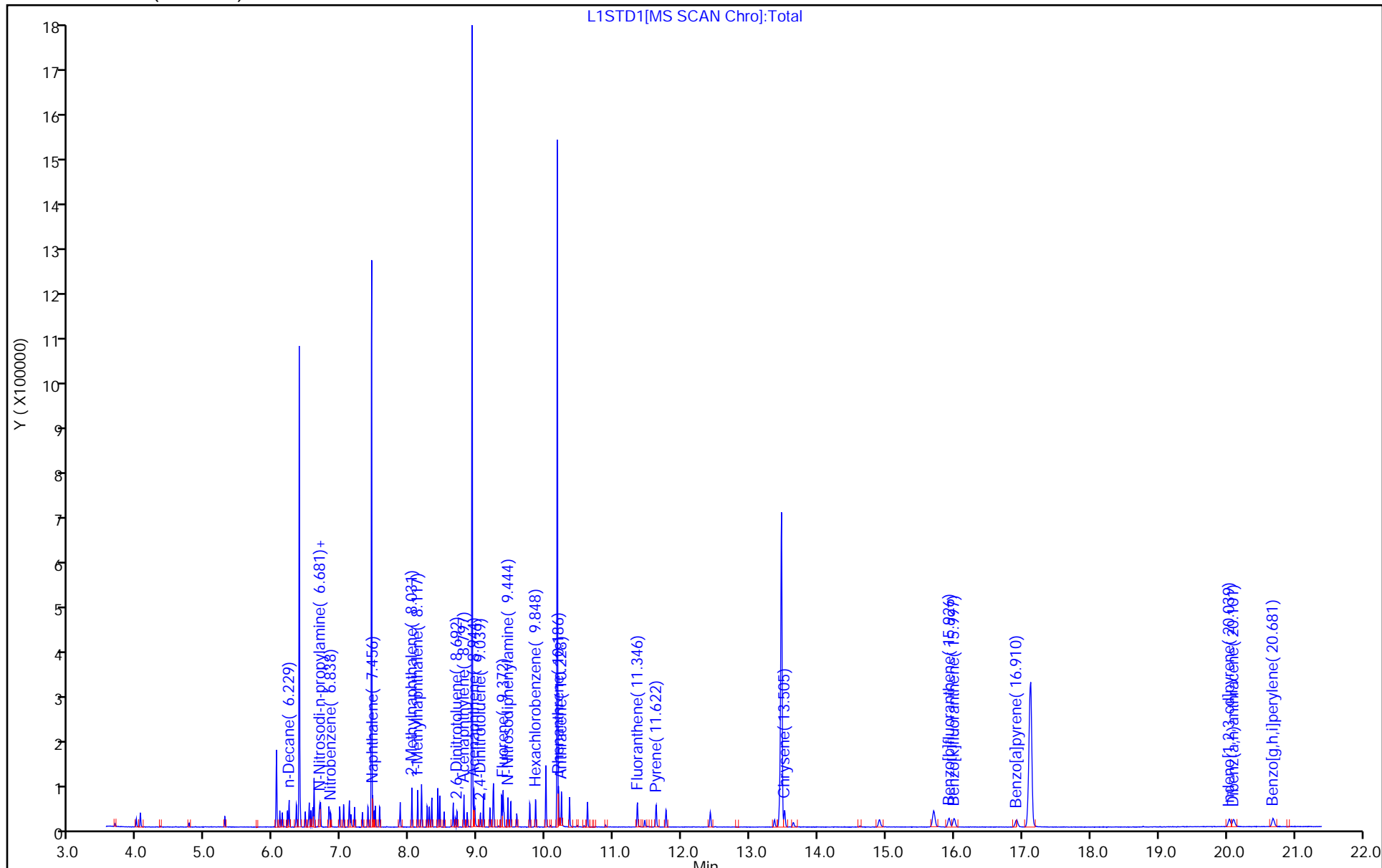
Dil. Factor: 1.0000

ALS Bottle#: 5

Method: 12-LVI8270

Limit Group: MSBNA_8270D_ICAL

Column: ZB5MS (0.25 mm)



TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS12\20180815-54379.b\L1STD5.D
 Lims ID: ic
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 15-Aug-2018 19:26:30 ALS Bottle#: 6 Worklist Smp#: 6
 Injection Vol: 5.0 ul Dil. Factor: 1.0000
 Sample Info: ic
 Misc. Info.: 500-0054379-006
 Operator ID: DA Instrument ID: CMS12
 Sublist: chrom-12-LVI8270*sub102
 Method: \\ChromNA\Chicago\ChromData\CMS12\20180815-54379.b\12-LVI8270.m
 Limit Group: MSBNA_8270D_ICAL
 Method Label: TestAmerica Chicago GC/MS SVOA
 Last Update: 16-Aug-2018 08:18:44 Calib Date: 15-Aug-2018 22:24:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Chicago\ChromData\CMS12\20180815-54379.b\L1STD70.D
 Column 1 : ZB5MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK005

First Level Reviewer: rynkarg

Date: 15-Aug-2018 21:49:14

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.376	6.381	-0.005	96	97739	3.20	3.20	
* 2 Naphthalene-d8	136	7.442	7.442	0.000	99	476366	3.20	3.20	
* 3 Acenaphthene-d10	164	8.916	8.921	-0.005	97	233455	3.20	3.20	
* 4 Phenanthrene-d10	188	10.167	10.171	-0.004	98	402339	3.20	3.20	
* 5 Chrysene-d12	240	13.462	13.472	-0.010	99	325149	3.20	3.20	
* 6 Perylene-d12	264	17.119	17.129	-0.010	97	324195	3.20	3.20	
\$ 7 2-Fluorophenol	112	5.283	5.287	-0.004	91	20226	1.00	1.10	
\$ 8 Phenol-d5	99	6.039	6.048	-0.009	97	27522	1.00	0.8318	
\$ 9 Nitrobenzene-d5	82	6.824	6.833	-0.009	92	37090	1.00	0.9258	
\$ 10 2-Fluorobiphenyl	172	8.326	8.331	-0.005	100	80007	1.00	0.8682	
\$ 11 2,4,6-Tribromophenol	330	9.577	9.582	-0.005	68	19642	1.00	1.03	
\$ 12 Terphenyl-d14	244	11.765	11.769	-0.004	98	76522	1.00	0.8796	
13 1,4-Dioxane	88	3.671	3.671	0.000	91	7107	1.00	0.5660	
14 N-Nitrosodimethylamine	42	3.984	3.994	-0.010	70	28214	1.00	0.9859	
15 Pyridine	79	4.041	4.046	-0.005	87	39173	2.00	3.16	
25 Phenol	94	6.048	6.058	-0.010	94	31462	1.00	0.7680	
26 Aniline	93	6.096	6.101	-0.005	96	46693	1.00	0.9210	
27 Bis(2-chloroethyl)ether	93	6.129	6.134	-0.005	97	33799	1.00	0.9865	
29 2-Chlorophenol	128	6.205	6.210	-0.005	95	33773	1.00	0.8162	
30 n-Decane	43	6.229	6.229	0.000	88	52323	1.00	1.00	
31 1,3-Dichlorobenzene	146	6.338	6.338	0.000	99	41974	1.00	0.8829	
32 1,4-Dichlorobenzene	146	6.391	6.395	-0.004	97	42606	1.00	0.8712	
33 Benzyl alcohol	108	6.467	6.476	-0.009	93	22757	1.00	0.9385	
34 1,2-Dichlorobenzene	146	6.524	6.529	-0.005	97	41207	1.00	0.8817	
36 2-Methylphenol	107	6.548	6.557	-0.009	95	24533	1.00	0.8796	
35 2,2'-oxybis[1-chloropropan	45	6.576	6.581	-0.005	88	77385	1.00	1.04	
37 Indene	116	6.595	6.600	-0.005	89	106631	2.00	1.81	
42 3 & 4 Methylphenol	108	6.671	6.681	-0.010	98	30190	1.00	0.8594	
41 N-Nitrosodi-n-propylamine	70	6.681	6.695	-0.014	74	24348	1.00	1.03	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
40 Acetophenone	105	6.690	6.700	-0.010	93	52613	1.00	1.00	
44 Hexachloroethane	117	6.814	6.814	0.000	94	17754	1.00	0.9064	
45 Nitrobenzene	77	6.843	6.847	-0.004	92	33994	1.00	0.9253	
47 Isophorone	82	7.033	7.042	-0.009	98	64982	1.00	0.9861	
48 2-Nitrophenol	139	7.109	7.114	-0.005	90	19518	1.00	0.7739	
49 2,4-Dimethylphenol	122	7.118	7.123	-0.005	92	35547	1.00	0.8241	
51 Bis(2-chloroethoxy)methane	93	7.190	7.199	-0.009	96	45456	1.00	0.9211	
52 Benzoic acid	122	7.161	7.237	-0.076	92	30316	2.00	2.35	
54 2,4-Dichlorophenol	162	7.304	7.313	-0.009	96	31298	1.00	0.7484	a
55 1,2,4-Trichlorobenzene	180	7.389	7.389	0.000	94	37209	1.00	0.9398	
56 Naphthalene	128	7.461	7.461	0.000	99	126495	1.00	0.8995	
57 4-Chloroaniline	127	7.480	7.484	-0.004	97	54597	1.00	0.8826	
58 2,6-Dichlorophenol	162	7.494	7.499	-0.005	97	34415	1.00	0.8037	
60 Hexachlorobutadiene	225	7.561	7.561	0.000	97	21910	1.00	0.9508	
65 4-Chloro-3-methylphenol	107	7.860	7.865	-0.005	92	30198	1.00	0.8795	
67 2-Methylnaphthalene	142	8.031	8.036	-0.005	95	86867	1.00	0.8919	
68 1-Methylnaphthalene	142	8.117	8.122	-0.005	95	82965	1.00	0.8916	
69 Hexachlorocyclopentadiene	237	8.174	8.174	0.000	95	24445	1.00	1.18	
70 1,2,4,5-Tetrachlorobenzene	216	8.179	8.179	0.000	97	40203	1.00	1.19	
72 2,4,6-Trichlorophenol	196	8.260	8.264	-0.004	92	23130	1.00	1.01	
73 2,4,5-Trichlorophenol	196	8.288	8.293	-0.005	94	24369	1.00	1.01	
75 1,1'-Biphenyl	154	8.417	8.421	-0.004	95	99463	1.00	0.8110	
76 2-Chloronaphthalene	162	8.445	8.450	-0.005	96	79791	1.00	0.8437	
78 2-Nitroaniline	65	8.507	8.516	-0.009	88	17638	1.00	0.8683	
82 Dimethyl phthalate	163	8.640	8.650	-0.010	98	81586	1.00	0.8806	
83 1,3-Dinitrobenzene	168	8.673	8.683	-0.010	83	9583	1.00	0.7701	
84 2,6-Dinitrotoluene	165	8.697	8.707	-0.010	92	16533	1.00	1.04	
85 Acenaphthylene	152	8.797	8.802	-0.005	98	108385	1.00	0.8704	
86 3-Nitroaniline	138	8.845	8.859	-0.014	92	20392	1.00	0.8690	
88 2,4-Dinitrophenol	184	8.930	8.944	-0.014	84	14652	2.00	3.43	
87 Acenaphthene	153	8.944	8.949	-0.005	91	80566	1.00	0.8416	
89 4-Nitrophenol	109	8.983	8.973	0.010	52	1309	2.00	0.0969	
91 2,4-Dinitrotoluene	165	9.040	9.049	-0.009	91	20493	1.00	0.8796	
92 Dibenzofuran	168	9.087	9.092	-0.005	96	102899	1.00	0.8244	
95 2,3,4,6-Tetrachlorophenol	232	9.182	9.187	-0.005	74	20842	1.00	1.01	
98 Hexadecane	57	9.235	9.235	0.000	80	51823	1.00	0.9448	
97 Diethyl phthalate	149	9.225	9.235	-0.010	97	84555	1.00	0.8407	
100 4-Chlorophenyl phenyl ethe	204	9.353	9.353	0.000	94	36957	1.00	1.22	
103 4-Nitroaniline	138	9.358	9.377	-0.019	77	20652	1.00	1.17	
102 Fluorene	166	9.372	9.377	-0.005	94	81878	1.00	0.8418	
104 4,6-Dinitro-2-methylphenol	198	9.387	9.401	-0.014	95	18556	2.00	2.05	
106 N-Nitrosodiphenylamine	169	9.444	9.453	-0.009	67	54382	1.00	1.01	
105 Diphenylamine	169	9.444	9.453	-0.009	92	54382	0.8500	0.6535	
107 1,2-Diphenylhydrazine	77	9.487	9.491	-0.004	94	79981	1.00	0.9376	
114 4-Bromophenyl phenyl ether	248	9.767	9.767	0.000	68	25326	1.00	1.01	
117 Hexachlorobenzene	284	9.853	9.858	-0.005	96	34087	1.00	1.00	
120 Pentachlorophenol	266	10.000	10.005	-0.005	90	38861	2.00	2.19	
123 n-Octadecane	43	10.000	10.005	-0.005	90	61019	1.00	1.15	
126 Phenanthrene	178	10.190	10.195	-0.005	97	113567	1.00	1.00	
127 Anthracene	178	10.233	10.238	-0.005	98	117497	1.00	1.00	
128 Carbazole	167	10.347	10.357	-0.010	96	103742	1.00	0.8502	
130 Di-n-butyl phthalate	149	10.614	10.614	0.000	99	129924	1.00	0.8372	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
135 Fluoranthene	202	11.346	11.351	-0.005	98	111305	1.00	1.02	
136 Benzidine	184	11.455	11.460	-0.005	98	43069	1.00	0.8773	
137 Pyrene	202	11.622	11.627	-0.005	96	114382	1.00	0.9297	
145 Butyl benzyl phthalate	149	12.416	12.421	-0.005	97	52035	1.00	0.9469	
147 3,3'-Dichlorobenzidine	252	13.358	13.372	-0.014	99	36793	1.00	0.8798	
150 Bis(2-ethylhexyl) phthalat	149	13.439	13.443	-0.005	93	76072	1.00	0.9015	
149 Benzo[a]anthracene	228	13.439	13.453	-0.015	99	109197	1.00	0.8986	
151 Chrysene	228	13.510	13.524	-0.014	97	93905	1.00	0.9290	
154 Di-n-octyl phthalate	149	14.898	14.908	-0.010	75	107507	1.00	0.7976	
156 Benzo[b]fluoranthene	252	15.926	15.949	-0.023	98	94391	1.00	0.9301	
157 Benzo[k]fluoranthene	252	16.002	16.035	-0.033	99	96801	1.00	0.9160	
158 Benzo[a]pyrene	252	16.920	16.953	-0.033	96	90437	1.00	0.9217	
162 Indeno[1,2,3-cd]pyrene	276	20.049	20.082	-0.033	98	113678	1.00	1.04	
163 Dibenz(a,h)anthracene	278	20.106	20.144	-0.038	92	92841	1.00	1.06	
164 Benzo[g,h,i]perylene	276	20.691	20.734	-0.043	96	95949	1.00	0.9031	
S 173 Methyl Phenols, Total	1				0			1.74	

QC Flag Legend

Review Flags

a - User Assigned ID

Reagents:

SM1st1_5uLL5_00044

Amount Added: 1.00

Units: mL

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS12\20180815-54379.b\L1STD5.D

Injection Date: 15-Aug-2018 19:26:30

Instrument ID: CMS12

Operator ID: DA

Lims ID: ic

Worklist Smp#: 6

Client ID:

Injection Vol: 5.0 ul

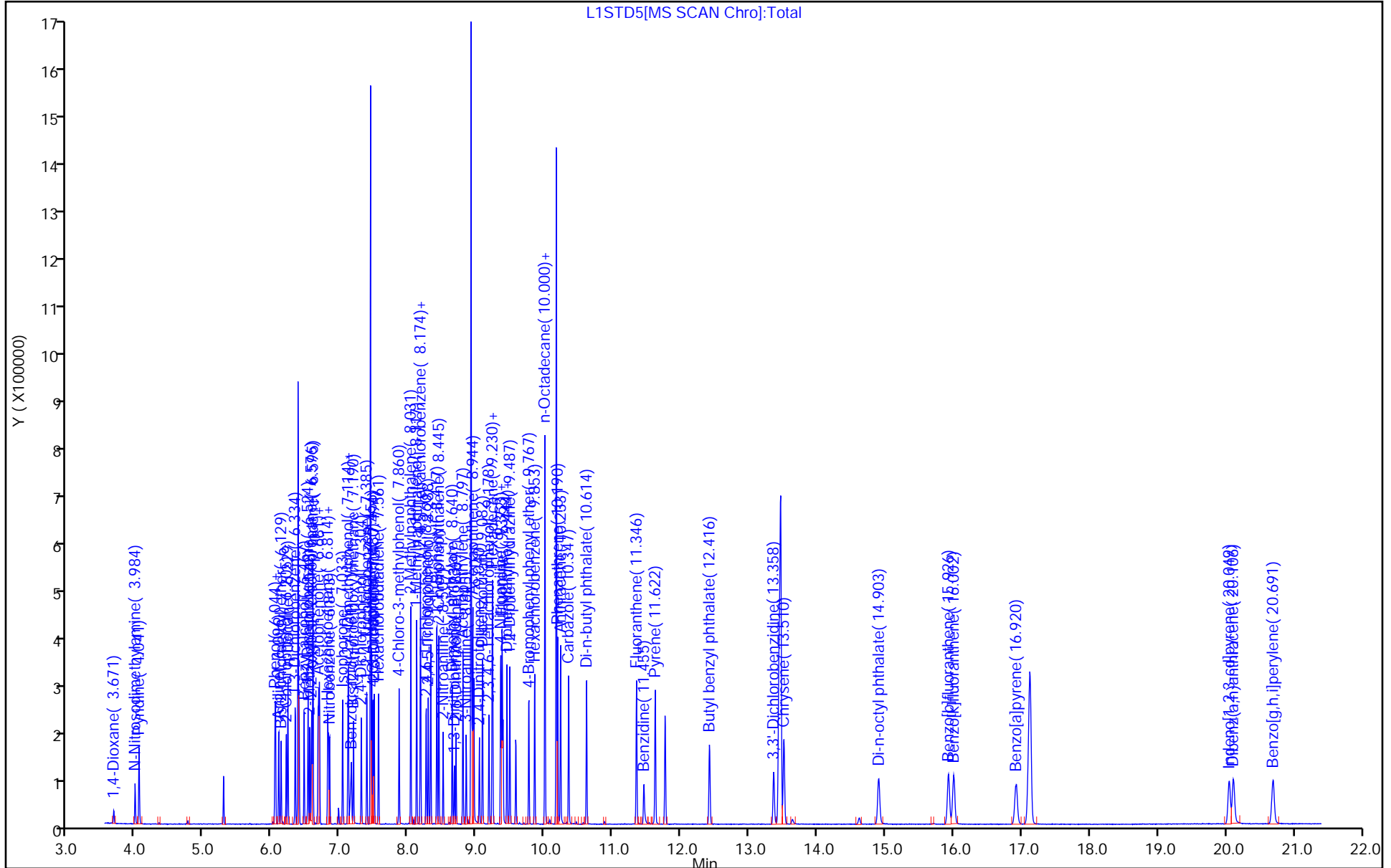
Dil. Factor: 1.0000

ALS Bottle#: 6

Method: 12-LV18270

Limit Group: MSBNA_8270D_ICAL

Column: ZB5MS (0.25 mm)



TestAmerica Chicago

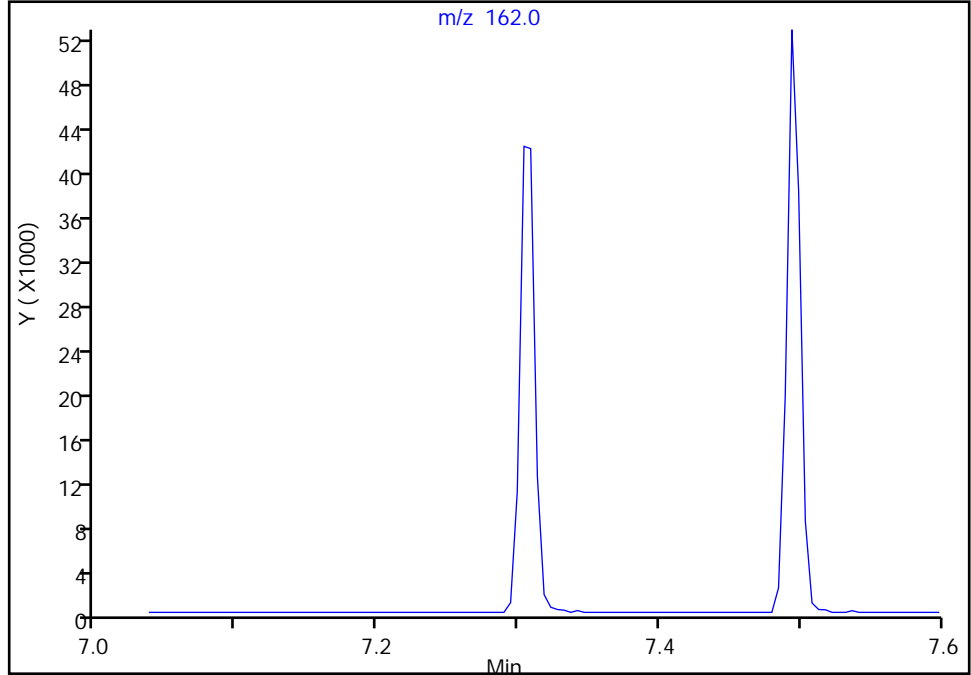
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Injection Date: 15-Aug-2018 19:26:30 Instrument ID: CMS12
Lims ID: ic
Client ID:
Operator ID: DA ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: 12-LVI8270 Limit Group: MSBNA_8270D_ICAL
Column: ZB5MS (0.25 mm) Detector: MS SCAN

54 2,4-Dichlorophenol, CAS: 120-83-2

Signal: 1

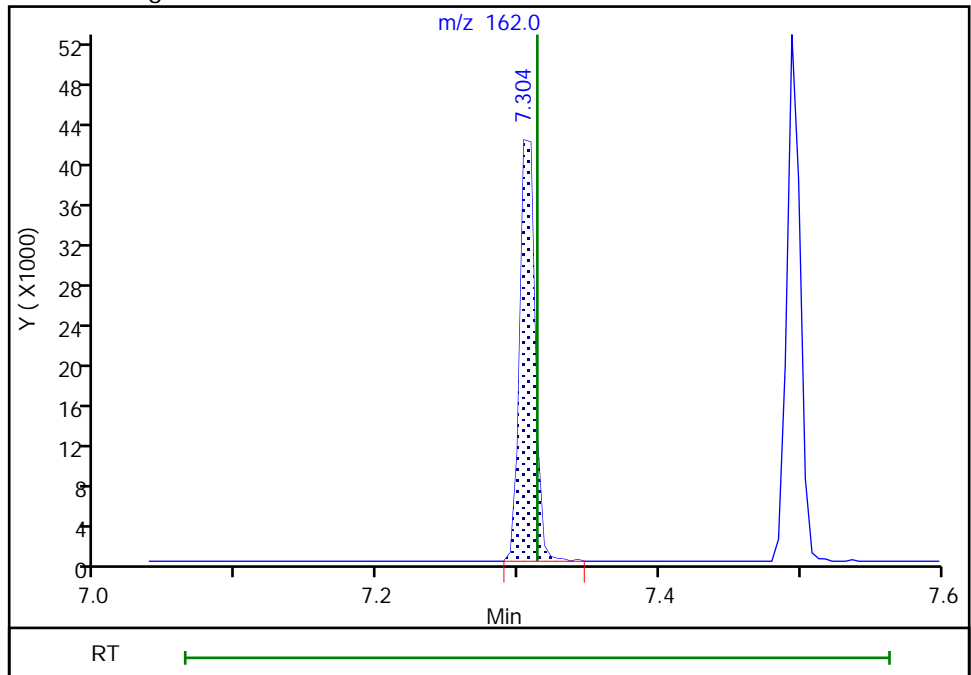
Not Detected
Expected RT: 7.31

Processing Integration Results



Manual Integration Results

RT: 7.30
Area: 31298
Amount: 0.748430
Amount Units: ug/ml



TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS12\20180815-54379.b\L1STD10.D
 Lims ID: ic
 Client ID:
 Sample Type: IC Calib Level: 6
 Inject. Date: 15-Aug-2018 19:55:30 ALS Bottle#: 7 Worklist Smp#: 7
 Injection Vol: 5.0 ul Dil. Factor: 1.0000
 Sample Info: ic
 Misc. Info.: 500-0054379-007
 Operator ID: DA Instrument ID: CMS12
 Sublist: chrom-12-LVI8270*sub102
 Method: \\ChromNA\Chicago\ChromData\CMS12\20180815-54379.b\12-LVI8270.m
 Limit Group: MSBNA_8270D_ICAL
 Method Label: TestAmerica Chicago GC/MS SVOA
 Last Update: 16-Aug-2018 08:18:57 Calib Date: 15-Aug-2018 22:24:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Chicago\ChromData\CMS12\20180815-54379.b\L1STD70.D
 Column 1 : ZB5MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK005

First Level Reviewer: rynkarg

Date: 15-Aug-2018 21:49:55

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.377	6.381	-0.004	96	111450	3.20	3.20	
* 2 Naphthalene-d8	136	7.442	7.442	0.000	99	554795	3.20	3.20	
* 3 Acenaphthene-d10	164	8.916	8.921	-0.005	97	264970	3.20	3.20	
* 4 Phenanthrene-d10	188	10.167	10.171	-0.004	98	445326	3.20	3.20	
* 5 Chrysene-d12	240	13.462	13.472	-0.010	99	365876	3.20	3.20	
* 6 Perylene-d12	264	17.124	17.129	-0.005	99	354181	3.20	3.20	
\$ 7 2-Fluorophenol	112	5.283	5.287	-0.004	90	42866	2.00	1.96	
\$ 8 Phenol-d5	99	6.039	6.048	-0.009	98	70067	2.00	1.67	
\$ 9 Nitrobenzene-d5	82	6.824	6.833	-0.009	94	84932	2.00	1.82	
\$ 10 2-Fluorobiphenyl	172	8.326	8.331	-0.005	99	180539	2.00	1.57	
\$ 11 2,4,6-Tribromophenol	330	9.577	9.582	-0.005	66	45053	2.00	1.94	
\$ 12 Terphenyl-d14	244	11.769	11.769	0.000	98	174493	2.00	1.78	
13 1,4-Dioxane	88	3.675	3.671	0.004	91	16610	2.00	1.99	
14 N-Nitrosodimethylamine	42	3.984	3.994	-0.010	70	64315	2.00	1.97	
15 Pyridine	79	4.042	4.046	-0.004	87	96233	4.00	4.26	
25 Phenol	94	6.048	6.058	-0.010	93	79218	2.00	1.70	
26 Aniline	93	6.096	6.101	-0.005	96	112138	2.00	1.94	
27 Bis(2-chloroethyl)ether	93	6.129	6.134	-0.005	97	80427	2.00	2.06	
29 2-Chlorophenol	128	6.205	6.210	-0.005	96	79525	2.00	1.69	
30 n-Decane	43	6.229	6.229	0.000	88	118167	2.00	1.98	
31 1,3-Dichlorobenzene	146	6.338	6.338	0.000	99	95177	2.00	1.76	
32 1,4-Dichlorobenzene	146	6.391	6.395	-0.004	95	97223	2.00	1.74	
33 Benzyl alcohol	108	6.467	6.476	-0.009	93	56413	2.00	2.04	
34 1,2-Dichlorobenzene	146	6.524	6.529	-0.005	98	96227	2.00	1.81	
36 2-Methylphenol	107	6.552	6.557	-0.005	95	64174	2.00	2.02	
35 2,2'-oxybis[1-chloropropan	45	6.576	6.581	-0.005	88	177900	2.00	2.10	
37 Indene	116	6.595	6.600	-0.005	89	264835	4.00	3.94	
42 3 & 4 Methylphenol	108	6.671	6.681	-0.010	99	81737	2.00	2.04	
41 N-Nitrosodi-n-propylamine	70	6.681	6.695	-0.014	74	54945	2.00	2.03	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
40 Acetophenone	105	6.695	6.700	-0.005	94	120517	2.00	2.02	
44 Hexachloroethane	117	6.814	6.814	0.000	95	40500	2.00	1.81	
45 Nitrobenzene	77	6.843	6.847	-0.004	92	78978	2.00	1.85	
47 Isophorone	82	7.033	7.042	-0.009	98	141371	2.00	1.84	
48 2-Nitrophenol	139	7.109	7.114	-0.005	90	48672	2.00	1.66	
49 2,4-Dimethylphenol	122	7.118	7.123	-0.005	93	85588	2.00	1.70	
51 Bis(2-chloroethoxy)methane	93	7.195	7.199	-0.005	98	101905	2.00	1.77	
52 Benzoic acid	122	7.180	7.237	-0.057	92	84962	4.00	3.81	
54 2,4-Dichlorophenol	162	7.309	7.313	-0.004	96	79578	2.00	1.63	
55 1,2,4-Trichlorobenzene	180	7.389	7.389	0.000	95	94341	2.00	1.69	
56 Naphthalene	128	7.461	7.461	0.000	99	298076	2.00	1.82	
57 4-Chloroaniline	127	7.480	7.484	-0.004	96	125662	2.00	1.74	
58 2,6-Dichlorophenol	162	7.494	7.499	-0.005	97	81109	2.00	1.63	
60 Hexachlorobutadiene	225	7.561	7.561	0.000	97	53248	2.00	1.64	
65 4-Chloro-3-methylphenol	107	7.860	7.865	-0.005	92	69321	2.00	1.73	
67 2-Methylnaphthalene	142	8.031	8.036	-0.005	95	195624	2.00	1.72	
68 1-Methylnaphthalene	142	8.117	8.122	-0.005	94	184938	2.00	1.71	
69 Hexachlorocyclopentadiene	237	8.174	8.174	0.000	95	59464	2.00	1.82	
70 1,2,4,5-Tetrachlorobenzene	216	8.179	8.179	0.000	98	94622	2.00	1.83	
72 2,4,6-Trichlorophenol	196	8.260	8.264	-0.004	92	53647	2.00	1.98	
73 2,4,5-Trichlorophenol	196	8.288	8.293	-0.005	95	56283	2.00	1.97	
75 1,1'-Biphenyl	154	8.417	8.421	-0.004	95	226660	2.00	1.63	
76 2-Chloronaphthalene	162	8.445	8.450	-0.005	96	179713	2.00	1.67	
78 2-Nitroaniline	65	8.507	8.516	-0.009	89	40721	2.00	1.77	
82 Dimethyl phthalate	163	8.640	8.650	-0.010	98	181660	2.00	1.73	
83 1,3-Dinitrobenzene	168	8.673	8.683	-0.010	84	23255	2.00	1.65	
84 2,6-Dinitrotoluene	165	8.697	8.707	-0.010	93	38393	2.00	2.02	
85 Acenaphthylene	152	8.797	8.802	-0.005	98	247921	2.00	1.75	
86 3-Nitroaniline	138	8.849	8.859	-0.010	92	46091	2.00	1.73	
88 2,4-Dinitrophenol	184	8.935	8.944	-0.009	83	38977	4.00	4.42	
87 Acenaphthene	153	8.945	8.949	-0.004	91	185502	2.00	1.71	
89 4-Nitrophenol	109	8.964	8.973	-0.009	90	50028	4.00	3.26	
91 2,4-Dinitrotoluene	165	9.040	9.049	-0.009	92	47447	2.00	1.63	
92 Dibenzofuran	168	9.082	9.092	-0.010	96	238875	2.00	1.69	
95 2,3,4,6-Tetrachlorophenol	232	9.182	9.187	-0.005	73	48806	2.00	1.99	
97 Diethyl phthalate	149	9.225	9.235	-0.010	98	195158	2.00	1.71	
98 Hexadecane	57	9.235	9.235	0.000	81	118858	2.00	1.91	
100 4-Chlorophenyl phenyl ethe	204	9.354	9.353	0.001	93	86263	2.00	1.85	
102 Fluorene	166	9.373	9.377	-0.004	93	188779	2.00	1.55	
103 4-Nitroaniline	138	9.363	9.377	-0.014	79	49146	2.00	1.84	a
104 4,6-Dinitro-2-methylphenol	198	9.392	9.401	-0.009	93	47795	4.00	4.02	
105 Diphenylamine	169	9.444	9.453	-0.009	93	122442	1.70	1.33	
106 N-Nitrosodiphenylamine	169	9.444	9.453	-0.009	66	122442	2.00	1.96	
107 1,2-Diphenylhydrazine	77	9.487	9.491	-0.004	95	173271	2.00	1.79	
114 4-Bromophenyl phenyl ether	248	9.767	9.767	0.000	67	58912	2.00	1.98	
117 Hexachlorobenzene	284	9.853	9.858	-0.005	97	79291	2.00	1.97	
120 Pentachlorophenol	266	10.000	10.005	-0.005	89	102276	4.00	3.62	
123 n-Octadecane	43	10.000	10.005	-0.005	92	134281	2.00	2.29	
126 Phenanthrene	178	10.191	10.195	-0.005	97	258879	2.00	1.95	
127 Anthracene	178	10.233	10.238	-0.005	98	265703	2.00	1.95	
128 Carbazole	167	10.352	10.357	-0.005	96	231705	2.00	1.72	
130 Di-n-butyl phthalate	149	10.614	10.614	0.000	99	291846	2.00	1.70	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
135 Fluoranthene	202	11.346	11.351	-0.005	98	253591	2.00	1.99	
136 Benzidine	184	11.455	11.460	-0.005	98	93329	2.00	1.69	
137 Pyrene	202	11.622	11.627	-0.005	95	255632	2.00	1.85	
145 Butyl benzyl phthalate	149	12.416	12.421	-0.005	96	116083	2.00	1.88	
147 3,3'-Dichlorobenzidine	252	13.362	13.372	-0.010	99	84953	2.00	1.81	
150 Bis(2-ethylhexyl) phthalat	149	13.439	13.443	-0.004	94	173133	2.00	1.82	
149 Benzo[a]anthracene	228	13.443	13.453	-0.010	99	242847	2.00	1.78	
151 Chrysene	228	13.510	13.524	-0.014	97	208255	2.00	1.83	
154 Di-n-octyl phthalate	149	14.903	14.908	-0.005	74	244034	2.00	1.64	
156 Benzo[b]fluoranthene	252	15.930	15.949	-0.019	98	203744	2.00	1.84	
157 Benzo[k]fluoranthene	252	16.007	16.035	-0.028	99	215571	2.00	1.87	
158 Benzo[a]pyrene	252	16.924	16.953	-0.029	96	200951	2.00	1.87	
162 Indeno[1,2,3-cd]pyrene	276	20.049	20.082	-0.033	99	254405	2.00	2.05	
163 Dibenz(a,h)anthracene	278	20.115	20.144	-0.029	94	206830	2.00	2.06	
164 Benzo[g,h,i]perylene	276	20.696	20.734	-0.038	96	211084	2.00	1.82	
S 173 Methyl Phenols, Total	1				0			4.06	

QC Flag Legend

Review Flags

a - User Assigned ID

Reagents:

SMLst1_5uLL6_00043

Amount Added: 1.00

Units: mL

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS12\20180815-54379.b\L1STD10.D

Injection Date: 15-Aug-2018 19:55:30

Instrument ID: CMS12

Operator ID: DA

Lims ID: ic

Worklist Smp#: 7

Client ID:

Injection Vol: 5.0 ul

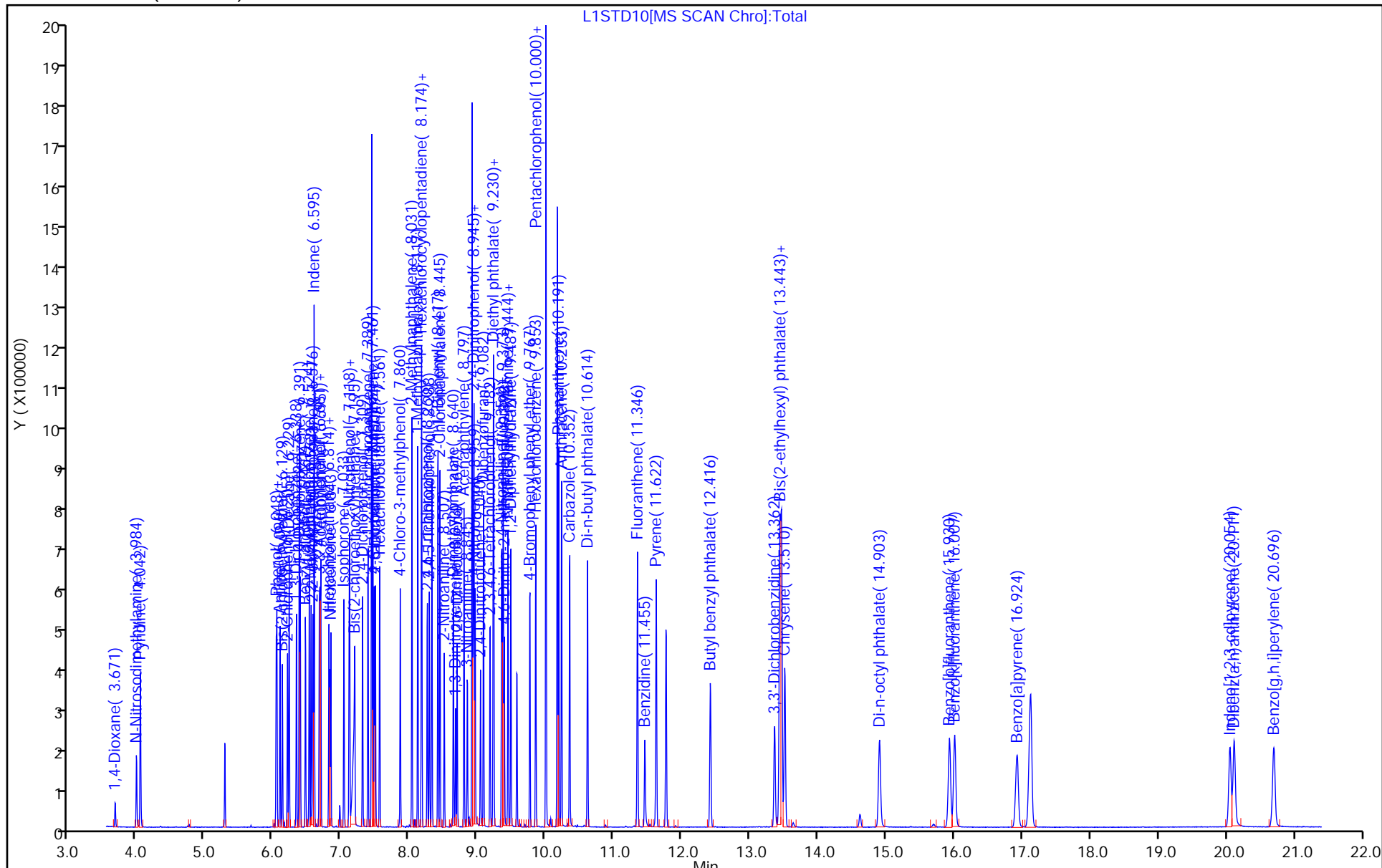
Dil. Factor: 1.0000

ALS Bottle#: 7

Method: 12-LV18270

Limit Group: MSBNA_8270D_ICAL

Column: ZB5MS (0.25 mm)



TestAmerica Chicago

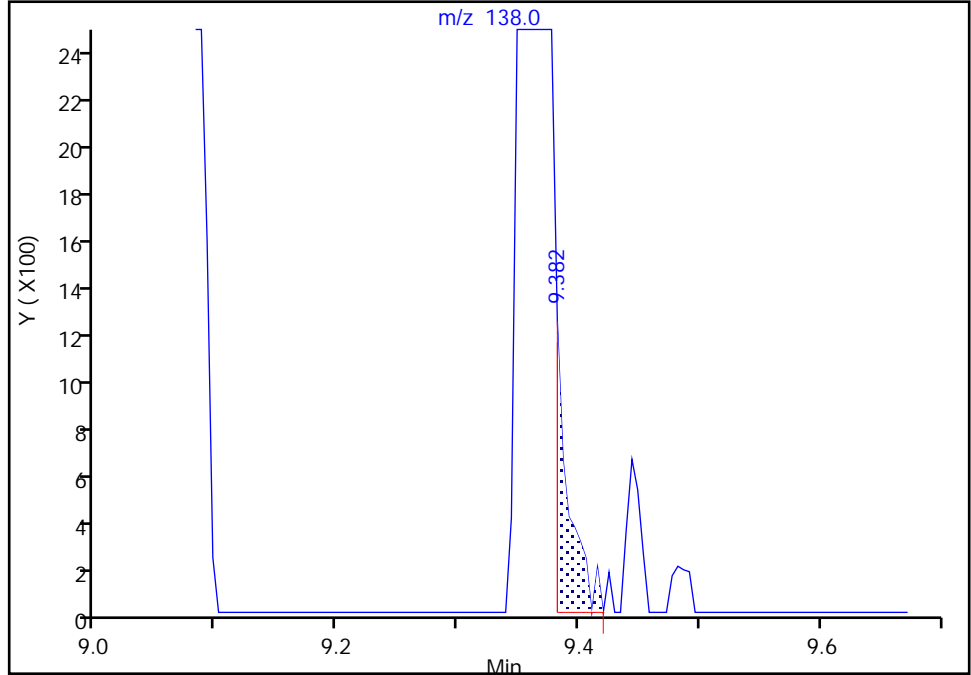
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Injection Date: 15-Aug-2018 19:55:30 Instrument ID: CMS12
Lims ID: ic
Client ID:
Operator ID: DA ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: 12-LVI8270 Limit Group: MSBNA_8270D_ICAL
Column: ZB5MS (0.25 mm) Detector: MS SCAN

103 4-Nitroaniline, CAS: 100-01-6

Signal: 1

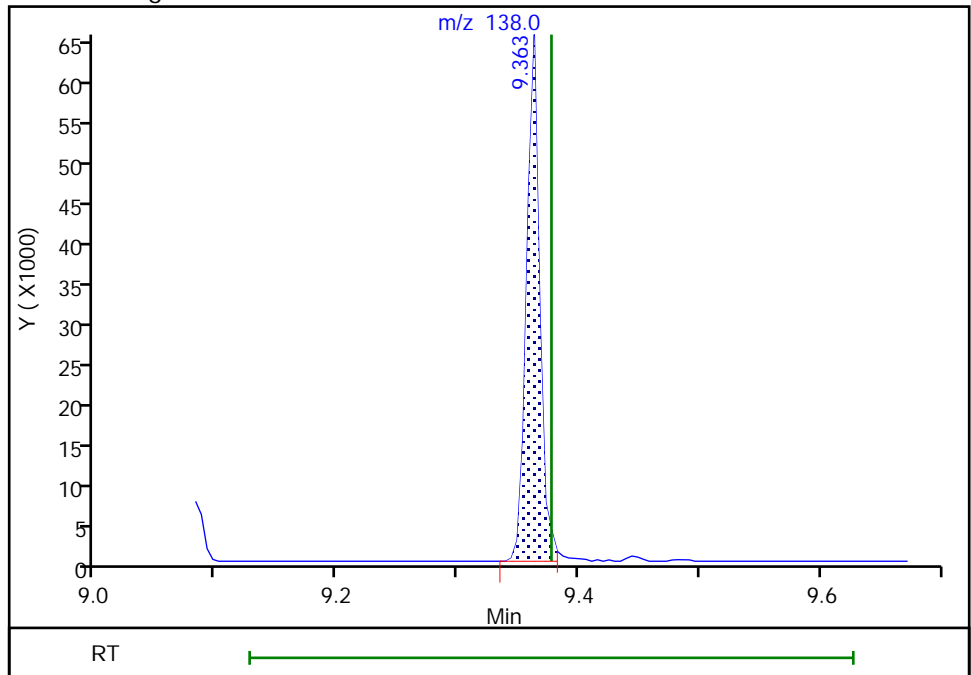
RT: 9.38
Area: 954
Amount: 0.038662
Amount Units: ug/ml

Processing Integration Results



RT: 9.36
Area: 49146
Amount: 1.840428
Amount Units: ug/ml

Manual Integration Results



TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS12\20180815-54379.b\L1STD20.D
 Lims ID: ic
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 15-Aug-2018 20:25:30 ALS Bottle#: 8 Worklist Smp#: 8
 Injection Vol: 5.0 ul Dil. Factor: 1.0000
 Sample Info: ic
 Misc. Info.: 500-0054379-008
 Operator ID: DA Instrument ID: CMS12
 Sublist: chrom-12-LVI8270*sub102
 Method: \\ChromNA\Chicago\ChromData\CMS12\20180815-54379.b\12-LVI8270.m
 Limit Group: MSBNA_8270D_ICAL
 Method Label: TestAmerica Chicago GC/MS SVOA
 Last Update: 16-Aug-2018 08:19:06 Calib Date: 15-Aug-2018 22:24:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Chicago\ChromData\CMS12\20180815-54379.b\L1STD70.D
 Column 1 : ZB5MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK005

First Level Reviewer: rynkarg

Date: 15-Aug-2018 21:50:43

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.381	6.381	0.000	94	127963	3.20	3.20	
* 2 Naphthalene-d8	136	7.442	7.442	0.000	99	580984	3.20	3.20	
* 3 Acenaphthene-d10	164	8.916	8.921	-0.005	97	271027	3.20	3.20	
* 4 Phenanthrene-d10	188	10.172	10.171	0.001	98	449943	3.20	3.20	
* 5 Chrysene-d12	240	13.467	13.472	-0.005	98	394598	3.20	3.20	
* 6 Perylene-d12	264	17.124	17.129	-0.005	98	375926	3.20	3.20	
\$ 7 2-Fluorophenol	112	5.283	5.287	-0.004	91	108305	4.00	3.87	
\$ 8 Phenol-d5	99	6.044	6.048	-0.004	97	196653	4.00	3.85	
\$ 9 Nitrobenzene-d5	82	6.828	6.833	-0.005	92	187472	4.00	3.84	
\$ 10 2-Fluorobiphenyl	172	8.326	8.331	-0.005	99	415647	4.00	3.33	
\$ 11 2,4,6-Tribromophenol	330	9.577	9.582	-0.005	65	105760	4.00	3.96	
\$ 12 Terphenyl-d14	244	11.769	11.769	0.000	98	400437	4.00	3.79	
13 1,4-Dioxane	88	3.666	3.671	-0.005	91	38842	4.00	4.03	
14 N-Nitrosodimethylamine	42	3.985	3.994	-0.009	70	146010	4.00	3.90	
15 Pyridine	79	4.042	4.046	-0.004	88	274468	8.00	7.33	
25 Phenol	94	6.053	6.058	-0.005	94	210227	4.00	3.92	
26 Aniline	93	6.096	6.101	-0.005	96	256044	4.00	3.86	
27 Bis(2-chloroethyl)ether	93	6.134	6.134	0.000	98	176390	4.00	3.93	
29 2-Chlorophenol	128	6.205	6.210	-0.005	96	198982	4.00	3.67	
30 n-Decane	43	6.229	6.229	0.000	89	269624	4.00	3.94	
31 1,3-Dichlorobenzene	146	6.339	6.338	0.001	99	227166	4.00	3.65	
32 1,4-Dichlorobenzene	146	6.396	6.395	0.001	96	235497	4.00	3.68	
33 Benzyl alcohol	108	6.472	6.476	-0.004	93	123172	4.00	3.88	
34 1,2-Dichlorobenzene	146	6.524	6.529	-0.005	99	229904	4.00	3.76	
36 2-Methylphenol	107	6.553	6.557	-0.004	95	145739	4.00	3.99	
35 2,2'-oxybis[1-chloropropan	45	6.581	6.581	0.000	89	379718	4.00	3.91	
37 Indene	116	6.600	6.600	0.000	89	622771	8.00	8.07	
42 3 & 4 Methylphenol	108	6.676	6.681	-0.005	99	181981	4.00	3.96	
41 N-Nitrosodi-n-propylamine	70	6.686	6.695	-0.009	76	119776	4.00	3.86	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
40 Acetophenone	105	6.695	6.700	-0.005	93	269579	4.00	3.93	
44 Hexachloroethane	117	6.814	6.814	0.000	95	95133	4.00	3.71	
45 Nitrobenzene	77	6.843	6.847	-0.004	93	167511	4.00	3.74	
47 Isophorone	82	7.038	7.042	-0.004	98	297032	4.00	3.70	
48 2-Nitrophenol	139	7.114	7.114	0.000	89	108047	4.00	3.51	
49 2,4-Dimethylphenol	122	7.118	7.123	-0.005	92	190127	4.00	3.61	
51 Bis(2-chloroethoxy)methane	93	7.195	7.199	-0.004	97	222612	4.00	3.70	
52 Benzoic acid	122	7.209	7.237	-0.028	92	204016	8.00	7.05	a
54 2,4-Dichlorophenol	162	7.309	7.313	-0.004	96	177789	4.00	3.49	
55 1,2,4-Trichlorobenzene	180	7.390	7.389	0.001	95	214678	4.00	3.33	
56 Naphthalene	128	7.461	7.461	0.000	99	654023	4.00	3.81	
57 4-Chloroaniline	127	7.480	7.484	-0.004	97	263311	4.00	3.49	
58 2,6-Dichlorophenol	162	7.499	7.499	0.000	97	181416	4.00	3.47	
60 Hexachlorobutadiene	225	7.561	7.561	0.000	96	124102	4.00	3.27	
65 4-Chloro-3-methylphenol	107	7.865	7.865	0.000	90	147600	4.00	3.52	
67 2-Methylnaphthalene	142	8.036	8.036	0.000	95	438792	4.00	3.69	
68 1-Methylnaphthalene	142	8.122	8.122	0.000	95	417286	4.00	3.68	
69 Hexachlorocyclopentadiene	237	8.174	8.174	0.000	95	145770	4.00	3.51	
70 1,2,4,5-Tetrachlorobenzene	216	8.179	8.179	0.000	97	225337	4.00	3.47	
72 2,4,6-Trichlorophenol	196	8.260	8.264	-0.004	91	120325	4.00	3.93	
73 2,4,5-Trichlorophenol	196	8.293	8.293	0.000	95	126785	4.00	3.95	
75 1,1'-Biphenyl	154	8.417	8.421	-0.004	95	511764	4.00	3.59	
76 2-Chloronaphthalene	162	8.445	8.450	-0.005	97	401091	4.00	3.65	
78 2-Nitroaniline	65	8.512	8.516	-0.004	89	86696	4.00	3.68	
82 Dimethyl phthalate	163	8.645	8.650	-0.005	97	392905	4.00	3.65	
83 1,3-Dinitrobenzene	168	8.678	8.683	-0.005	85	50839	4.00	3.52	
84 2,6-Dinitrotoluene	165	8.702	8.707	-0.005	94	83061	4.00	3.93	
85 Acenaphthylene	152	8.802	8.802	0.000	98	536557	4.00	3.71	
86 3-Nitroaniline	138	8.850	8.859	-0.009	92	97819	4.00	3.59	
88 2,4-Dinitrophenol	184	8.940	8.944	-0.004	84	101127	8.00	7.08	
87 Acenaphthene	153	8.945	8.949	-0.004	92	428374	4.00	3.85	
89 4-Nitrophenol	109	8.968	8.973	-0.005	91	107403	8.00	6.85	
91 2,4-Dinitrotoluene	165	9.044	9.049	-0.005	93	102552	4.00	3.27	
92 Dibenzofuran	168	9.087	9.092	-0.005	96	528227	4.00	3.65	
95 2,3,4,6-Tetrachlorophenol	232	9.182	9.187	-0.005	73	109208	4.00	3.93	
98 Hexadecane	57	9.235	9.235	0.000	84	260303	4.00	4.09	
97 Diethyl phthalate	149	9.230	9.235	-0.005	97	445194	4.00	3.81	
100 4-Chlorophenyl phenyl ethe	204	9.354	9.353	0.001	92	197639	4.00	3.36	
103 4-Nitroaniline	138	9.368	9.377	-0.009	81	112869	4.00	3.43	
102 Fluorene	166	9.377	9.377	0.000	93	433756	4.00	3.27	
104 4,6-Dinitro-2-methylphenol	198	9.396	9.401	-0.005	91	112951	8.00	7.89	
106 N-Nitrosodiphenylamine	169	9.449	9.453	-0.004	65	270853	4.00	3.92	
105 Diphenylamine	169	9.449	9.453	-0.004	93	270853	3.40	2.91	
107 1,2-Diphenylhydrazine	77	9.487	9.491	-0.004	96	366845	4.00	3.70	
114 4-Bromophenyl phenyl ether	248	9.767	9.767	0.000	65	133143	4.00	3.93	
117 Hexachlorobenzene	284	9.853	9.858	-0.005	97	180913	4.00	3.96	
120 Pentachlorophenol	266	10.005	10.005	0.000	86	268508	8.00	7.55	
123 n-Octadecane	43	10.005	10.005	0.000	93	271822	4.00	4.59	
126 Phenanthrene	178	10.191	10.195	-0.004	97	578760	4.00	3.95	
127 Anthracene	178	10.233	10.238	-0.005	98	600692	4.00	3.96	
128 Carbazole	167	10.352	10.357	-0.005	96	499405	4.00	3.66	
130 Di-n-butyl phthalate	149	10.614	10.614	0.000	99	624519	4.00	3.60	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
135 Fluoranthene	202	11.351	11.351	0.000	98	552290	4.00	3.91	
136 Benzidine	184	11.456	11.460	-0.004	97	211502	4.00	3.55	
137 Pyrene	202	11.627	11.627	0.000	95	561023	4.00	3.76	
145 Butyl benzyl phthalate	149	12.421	12.421	0.000	95	252519	4.00	3.79	
147 3,3'-Dichlorobenzidine	252	13.367	13.372	-0.005	99	186582	4.00	3.68	
150 Bis(2-ethylhexyl) phthalat	149	13.439	13.443	-0.004	94	386327	4.00	3.77	
149 Benzo[a]anthracene	228	13.443	13.453	-0.010	99	549868	4.00	3.73	
151 Chrysene	228	13.519	13.524	-0.005	97	451945	4.00	3.68	
154 Di-n-octyl phthalate	149	14.903	14.908	-0.005	74	528843	4.00	3.51	
156 Benzo[b]fluoranthene	252	15.940	15.949	-0.009	98	440484	4.00	3.74	
157 Benzo[k]fluoranthene	252	16.021	16.035	-0.014	98	465711	4.00	3.80	
158 Benzo[a]pyrene	252	16.934	16.953	-0.019	96	428951	4.00	3.77	
162 Indeno[1,2,3-cd]pyrene	276	20.068	20.082	-0.014	99	553937	4.00	3.93	
163 Dibenz(a,h)anthracene	278	20.125	20.144	-0.019	94	456139	4.00	3.93	
164 Benzo[g,h,i]perylene	276	20.715	20.734	-0.019	97	454971	4.00	3.69	
S 173 Methyl Phenols, Total	1				0			7.95	

QC Flag Legend

Review Flags

a - User Assigned ID

Reagents:

SMLst1_5uLL7_00043

Amount Added: 1.00

Units: mL

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS12\20180815-54379.b\L1STD20.D

Injection Date: 15-Aug-2018 20:25:30

Instrument ID: CMS12

Operator ID: DA

Lims ID: ic

Worklist Smp#: 8

Client ID:

Injection Vol: 5.0 ul

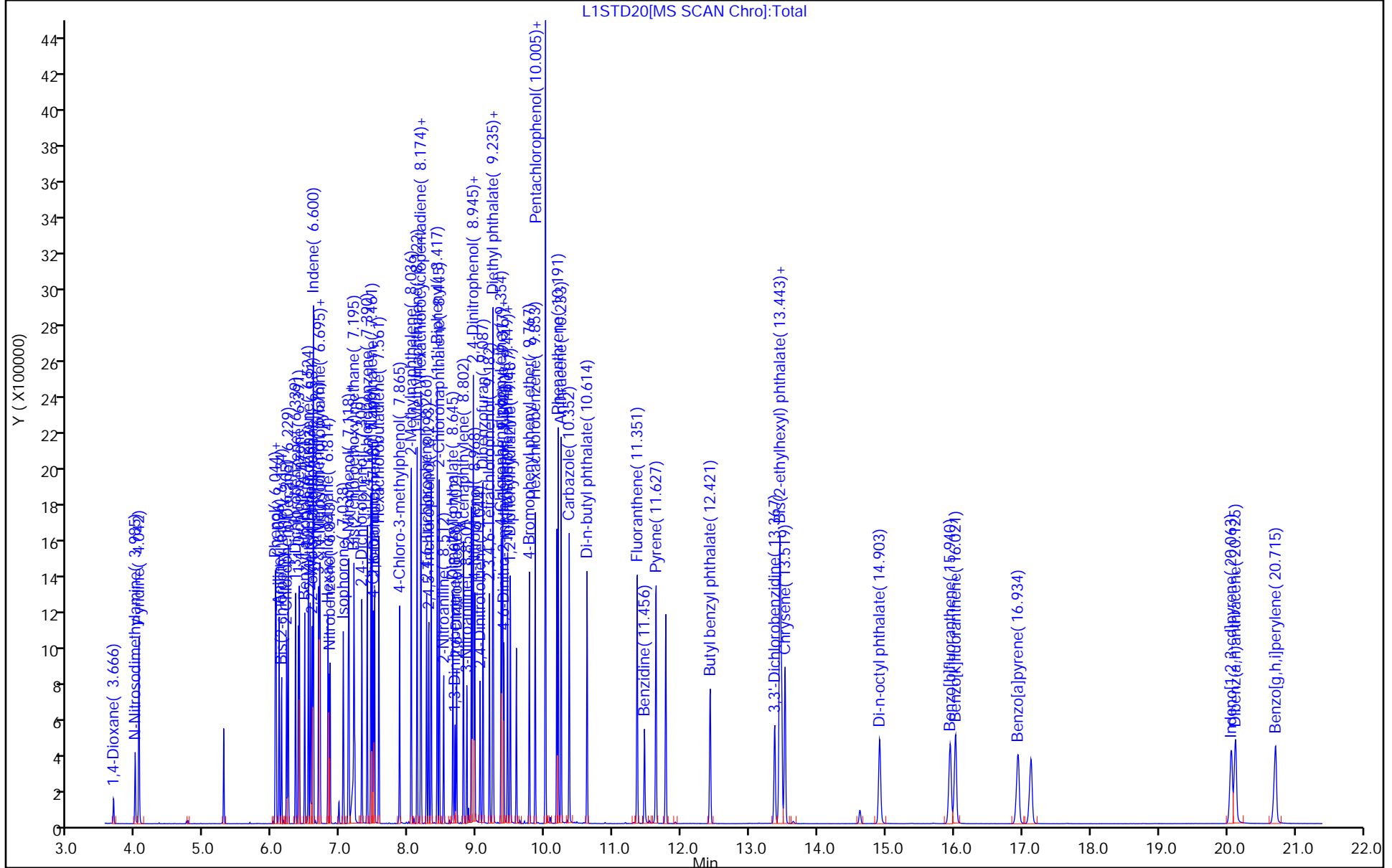
Dil. Factor: 1.0000

ALS Bottle#: 8

Method: 12-LV18270

Limit Group: MSBNA_8270D_ICAL

Column: ZB5MS (0.25 mm)



TestAmerica Chicago

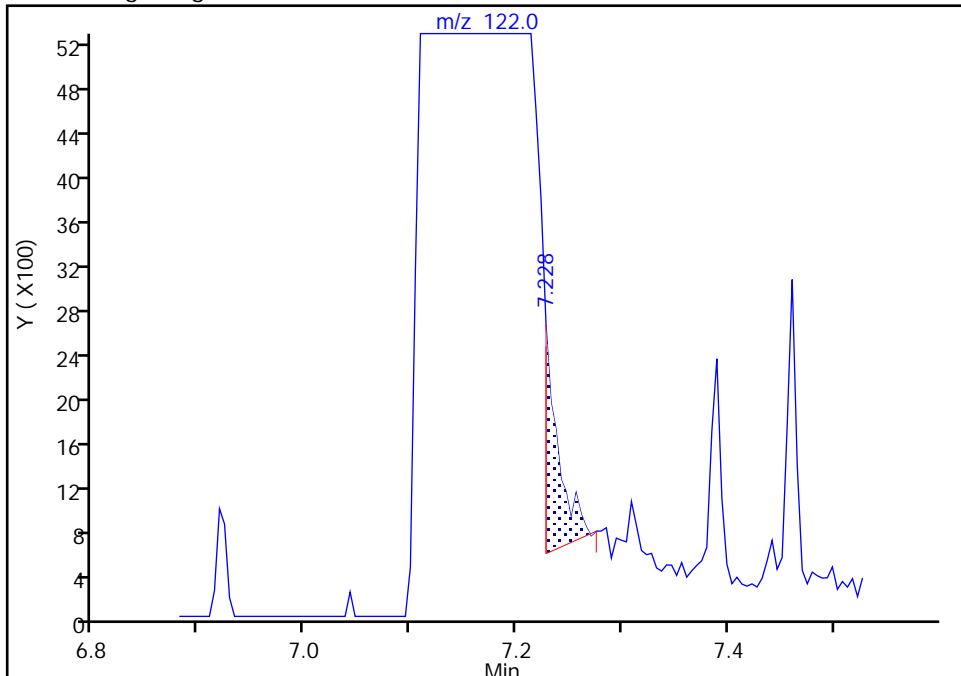
Data File: \\ChromNA\Chicago\ChromData\CMS12\20180815-54379.b\L1STD20.D
Injection Date: 15-Aug-2018 20:25:30 Instrument ID: CMS12
Lims ID: ic
Client ID:
Operator ID: DA ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: 12-LVI8270 Limit Group: MSBNA_8270D_ICAL
Column: ZB5MS (0.25 mm) Detector: MS SCAN

52 Benzoic acid, CAS: 65-85-0

Signal: 1

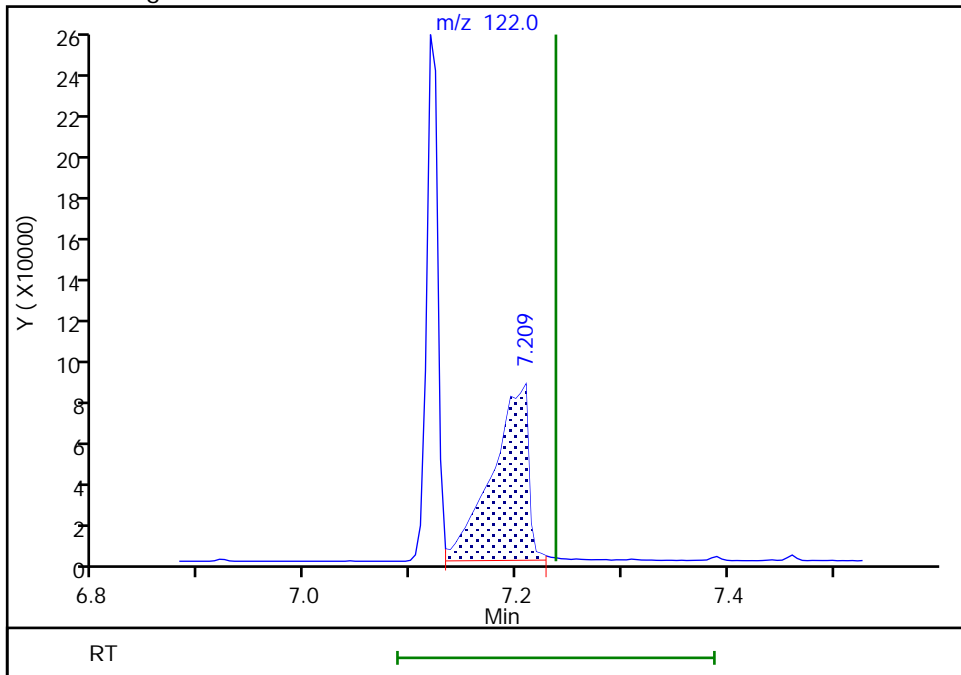
RT: 7.23
Area: 1837
Amount: 0.104195
Amount Units: ug/ml

Processing Integration Results



RT: 7.21
Area: 204016
Amount: 7.046380
Amount Units: ug/ml

Manual Integration Results



TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS12\20180815-54379.b\L1STD40.D
 Lims ID: icis
 Client ID:
 Sample Type: ICIS Calib Level: 8
 Inject. Date: 15-Aug-2018 20:55:30 ALS Bottle#: 9 Worklist Smp#: 9
 Injection Vol: 5.0 ul Dil. Factor: 1.0000
 Sample Info: icis
 Misc. Info.: 500-0054379-009
 Operator ID: DA Instrument ID: CMS12
 Sublist: chrom-12-LVI8270*sub102
 Method: \\ChromNA\Chicago\ChromData\CMS12\20180815-54379.b\12-LVI8270.m
 Limit Group: MSBNA_8270D_ICAL
 Method Label: TestAmerica Chicago GC/MS SVOA
 Last Update: 16-Aug-2018 08:19:14 Calib Date: 15-Aug-2018 22:24:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Chicago\ChromData\CMS12\20180815-54379.b\L1STD70.D
 Column 1 : ZB5MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK005

First Level Reviewer: rynkarg

Date: 15-Aug-2018 21:47:15

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.381	6.381	0.000	94	125013	3.20	3.20	
* 2 Naphthalene-d8	136	7.442	7.442	0.000	99	517959	3.20	3.20	
* 3 Acenaphthene-d10	164	8.921	8.921	0.000	97	239205	3.20	3.20	
* 4 Phenanthrene-d10	188	10.171	10.171	0.000	97	396184	3.20	3.20	
* 5 Chrysene-d12	240	13.472	13.472	0.000	98	377954	3.20	3.20	
* 6 Perylene-d12	264	17.129	17.129	0.000	98	343766	3.20	3.20	
\$ 7 2-Fluorophenol	112	5.287	5.287	0.000	90	261983	8.00	7.82	
\$ 8 Phenol-d5	99	6.048	6.048	0.000	99	417900	8.00	8.20	
\$ 9 Nitrobenzene-d5	82	6.833	6.833	0.000	92	369279	8.00	8.48	
\$ 10 2-Fluorobiphenyl	172	8.331	8.331	0.000	99	861962	8.00	7.60	
\$ 11 2,4,6-Tribromophenol	330	9.582	9.582	0.000	76	231522	8.00	8.05	
\$ 12 Terphenyl-d14	244	11.769	11.769	0.000	98	876075	8.00	8.66	
13 1,4-Dioxane	88	3.671	3.671	0.000	91	96592	8.00	8.12	
14 N-Nitrosodimethylamine	42	3.994	3.994	0.000	70	305145	8.00	8.34	
15 Pyridine	79	4.046	4.046	0.000	88	725656	16.0	16.1	
25 Phenol	94	6.058	6.058	0.000	95	453294	8.00	8.65	
26 Aniline	93	6.101	6.101	0.000	97	533168	8.00	8.22	
27 Bis(2-chloroethyl)ether	93	6.134	6.134	0.000	97	358210	8.00	8.17	
29 2-Chlorophenol	128	6.210	6.210	0.000	95	451944	8.00	8.54	
30 n-Decane	43	6.229	6.229	0.000	90	562064	8.00	8.40	
31 1,3-Dichlorobenzene	146	6.338	6.338	0.000	99	526301	8.00	8.66	
32 1,4-Dichlorobenzene	146	6.395	6.395	0.000	96	541924	8.00	8.66	
33 Benzyl alcohol	108	6.476	6.476	0.000	93	254323	8.00	8.20	
34 1,2-Dichlorobenzene	146	6.529	6.529	0.000	99	517372	8.00	8.66	
36 2-Methylphenol	107	6.557	6.557	0.000	95	303667	8.00	8.51	
35 2,2'-oxybis[1-chloropropan	45	6.581	6.581	0.000	90	764885	8.00	8.06	
37 Indene	116	6.600	6.600	0.000	88	1307093	16.0	17.3	
42 3 & 4 Methylphenol	108	6.681	6.681	0.000	100	388351	8.00	8.64	
41 N-Nitrosodi-n-propylamine	70	6.695	6.695	0.000	78	249827	8.00	8.25	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
40 Acetophenone	105	6.700	6.700	0.000	93	576470	8.00	8.60	
44 Hexachloroethane	117	6.814	6.814	0.000	94	210228	8.00	8.39	
45 Nitrobenzene	77	6.847	6.847	0.000	93	346110	8.00	8.66	
47 Isophorone	82	7.042	7.042	0.000	98	590529	8.00	8.24	
48 2-Nitrophenol	139	7.114	7.114	0.000	89	232603	8.00	8.48	
49 2,4-Dimethylphenol	122	7.123	7.123	0.000	93	401303	8.00	8.56	
51 Bis(2-chloroethoxy)methane	93	7.199	7.199	0.000	98	448701	8.00	8.36	
52 Benzoic acid	122	7.237	7.237	0.000	92	421676	16.0	14.6	
54 2,4-Dichlorophenol	162	7.313	7.313	0.000	96	390676	8.00	8.59	
55 1,2,4-Trichlorobenzene	180	7.389	7.389	0.000	94	472219	8.00	7.76	
56 Naphthalene	128	7.461	7.461	0.000	99	1356631	8.00	8.87	
57 4-Chloroaniline	127	7.484	7.484	0.000	97	568042	8.00	8.45	
58 2,6-Dichlorophenol	162	7.499	7.499	0.000	98	391767	8.00	8.41	
60 Hexachlorobutadiene	225	7.561	7.561	0.000	96	275665	8.00	7.67	
65 4-Chloro-3-methylphenol	107	7.865	7.865	0.000	91	310241	8.00	8.31	
67 2-Methylnaphthalene	142	8.036	8.036	0.000	95	934696	8.00	8.83	
68 1-Methylnaphthalene	142	8.122	8.122	0.000	95	888542	8.00	8.78	
69 Hexachlorocyclopentadiene	237	8.174	8.174	0.000	94	328010	8.00	8.00	
70 1,2,4,5-Tetrachlorobenzene	216	8.179	8.179	0.000	96	508642	8.00	7.95	
72 2,4,6-Trichlorophenol	196	8.264	8.264	0.000	90	270691	8.00	8.22	
73 2,4,5-Trichlorophenol	196	8.293	8.293	0.000	95	278677	8.00	8.16	
75 1,1'-Biphenyl	154	8.421	8.421	0.000	94	1094201	8.00	8.71	
76 2-Chloronaphthalene	162	8.450	8.450	0.000	95	858036	8.00	8.85	
78 2-Nitroaniline	65	8.516	8.516	0.000	90	174800	8.00	8.40	
82 Dimethyl phthalate	163	8.650	8.650	0.000	97	826283	8.00	8.70	
83 1,3-Dinitrobenzene	168	8.683	8.683	0.000	85	107724	8.00	8.45	
84 2,6-Dinitrotoluene	165	8.707	8.707	0.000	93	176114	8.00	8.09	
85 Acenaphthylene	152	8.802	8.802	0.000	98	1143163	8.00	8.96	
86 3-Nitroaniline	138	8.859	8.859	0.000	91	203356	8.00	8.46	
88 2,4-Dinitrophenol	184	8.944	8.944	0.000	85	263577	16.0	15.7	
87 Acenaphthene	153	8.949	8.949	0.000	93	946986	8.00	9.65	
89 4-Nitrophenol	109	8.973	8.973	0.000	91	232077	16.0	16.8	
91 2,4-Dinitrotoluene	165	9.049	9.049	0.000	95	219085	8.00	7.70	
92 Dibenzofuran	168	9.092	9.092	0.000	96	1139059	8.00	8.91	
95 2,3,4,6-Tetrachlorophenol	232	9.187	9.187	0.000	71	245462	8.00	8.21	
97 Diethyl phthalate	149	9.235	9.235	0.000	97	981479	8.00	9.52	
98 Hexadecane	57	9.235	9.235	0.000	87	510003	8.00	9.07	
100 4-Chlorophenyl phenyl ethe	204	9.353	9.353	0.000	92	452279	8.00	7.73	
102 Fluorene	166	9.377	9.377	0.000	93	981263	8.00	8.13	
103 4-Nitroaniline	138	9.377	9.377	0.000	83	260975	8.00	8.06	
104 4,6-Dinitro-2-methylphenol	198	9.401	9.401	0.000	89	263403	16.0	16.2	
105 Diphenylamine	169	9.453	9.453	0.000	94	602584	6.80	7.35	
106 N-Nitrosodiphenylamine	169	9.453	9.453	0.000	63	602584	8.00	8.32	
107 1,2-Diphenylhydrazine	77	9.491	9.491	0.000	98	735527	8.00	8.41	
114 4-Bromophenyl phenyl ether	248	9.767	9.767	0.000	62	303701	8.00	8.18	
117 Hexachlorobenzene	284	9.858	9.858	0.000	96	413192	8.00	8.32	
120 Pentachlorophenol	266	10.005	10.005	0.000	84	585735	16.0	17.0	
123 n-Octadecane	43	10.005	10.005	0.000	81	427046	8.00	8.19	
126 Phenanthrene	178	10.195	10.195	0.000	97	1287747	8.00	8.40	
127 Anthracene	178	10.238	10.238	0.000	98	1329180	8.00	8.37	
128 Carbazole	167	10.357	10.357	0.000	96	1059570	8.00	8.82	
130 Di-n-butyl phthalate	149	10.614	10.614	0.000	99	1338130	8.00	8.76	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
135 Fluoranthene	202	11.351	11.351	0.000	98	1231485	8.00	8.22	
136 Benzidine	184	11.460	11.460	0.000	97	480461	8.00	8.42	
137 Pyrene	202	11.627	11.627	0.000	95	1241554	8.00	8.68	
145 Butyl benzyl phthalate	149	12.421	12.421	0.000	95	533352	8.00	8.35	
147 3,3'-Dichlorobenzidine	252	13.372	13.372	0.000	99	399063	8.00	8.21	
150 Bis(2-ethylhexyl) phthalat	149	13.443	13.443	0.000	94	853689	8.00	8.70	
149 Benzo[a]anthracene	228	13.453	13.453	0.000	99	1232032	8.00	8.72	
151 Chrysene	228	13.524	13.524	0.000	97	995213	8.00	8.47	
154 Di-n-octyl phthalate	149	14.908	14.908	0.000	74	1114404	8.00	8.40	
156 Benzo[b]fluoranthene	252	15.949	15.949	0.000	98	948355	8.00	8.81	
157 Benzo[k]fluoranthene	252	16.035	16.035	0.000	99	950597	8.00	8.48	
158 Benzo[a]pyrene	252	16.953	16.953	0.000	96	911553	8.00	8.76	
162 Indeno[1,2,3-cd]pyrene	276	20.082	20.082	0.000	99	1184048	8.00	8.05	
163 Dibenz(a,h)anthracene	278	20.144	20.144	0.000	93	1007928	8.00	8.02	
164 Benzo[g,h,i]perylene	276	20.734	20.734	0.000	96	961870	8.00	8.54	

Reagents:

SMLst1_5uLL8_00043

Amount Added: 1.00

Units: mL

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS12\20180815-54379.b\L1STD40.D

Injection Date: 15-Aug-2018 20:55:30

Instrument ID: CMS12

Operator ID: DA

Lims ID: icis

Worklist Smp#: 9

Client ID:

Injection Vol: 5.0 ul

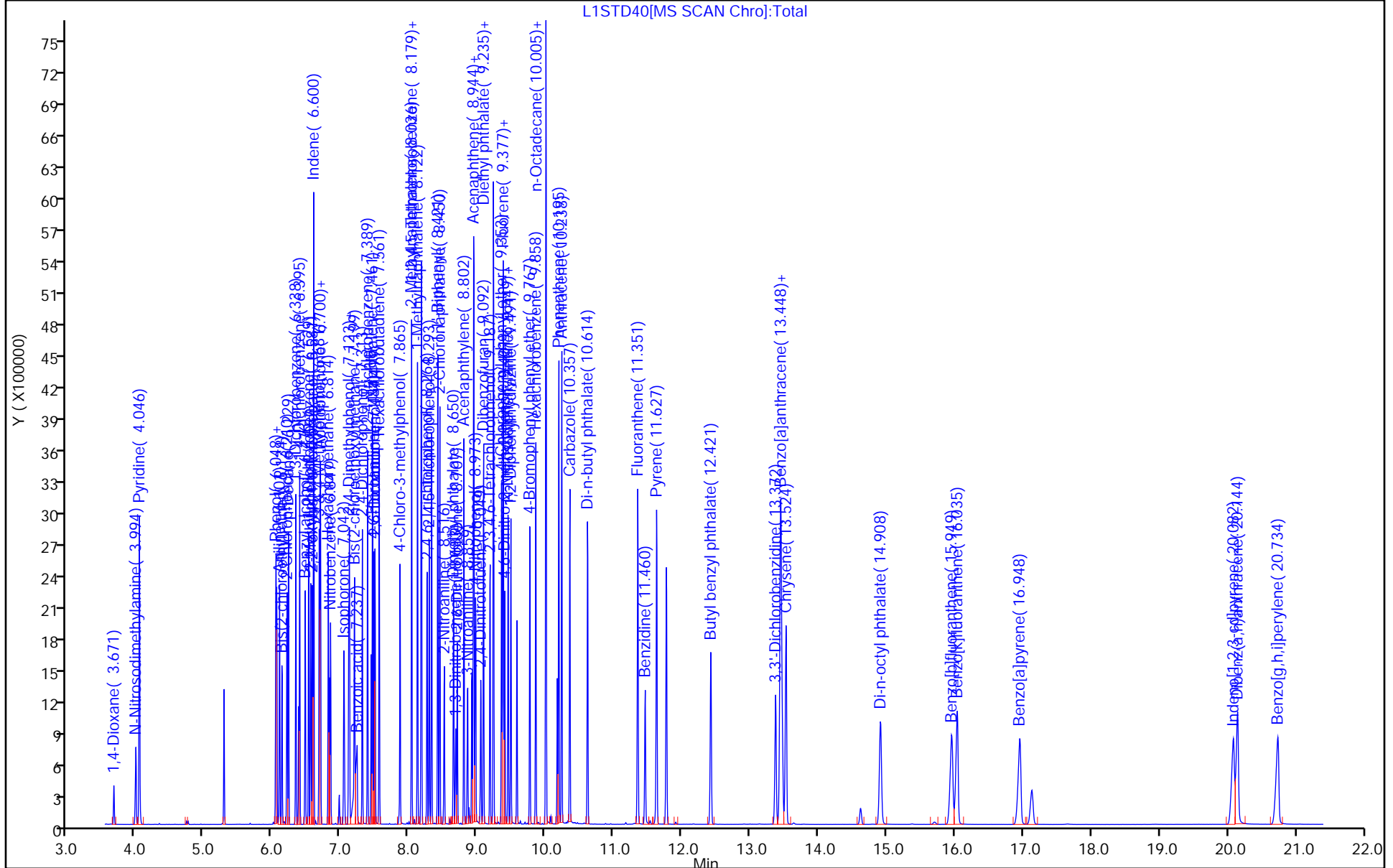
Dil. Factor: 1.0000

ALS Bottle#: 9

Method: 12-LV18270

Limit Group: MSBNA_8270D_ICAL

Column: ZB5MS (0.25 mm)



TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS12\20180815-54379.b\L1STD50.D
 Lims ID: ic
 Client ID:
 Sample Type: IC Calib Level: 9
 Inject. Date: 15-Aug-2018 21:24:30 ALS Bottle#: 10 Worklist Smp#: 10
 Injection Vol: 5.0 ul Dil. Factor: 1.0000
 Sample Info: ic
 Misc. Info.: 500-0054379-010
 Operator ID: DA Instrument ID: CMS12
 Sublist: chrom-12-LVI8270*sub102
 Method: \\ChromNA\Chicago\ChromData\CMS12\20180815-54379.b\12-LVI8270.m
 Limit Group: MSBNA_8270D_ICAL
 Method Label: TestAmerica Chicago GC/MS SVOA
 Last Update: 16-Aug-2018 08:19:32 Calib Date: 15-Aug-2018 22:24:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Chicago\ChromData\CMS12\20180815-54379.b\L1STD70.D
 Column 1 : ZB5MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK005

First Level Reviewer: rynkarg

Date: 15-Aug-2018 21:53:08

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.381	6.381	0.000	94	142622	3.20	3.20	
* 2 Naphthalene-d8	136	7.442	7.442	0.000	99	558381	3.20	3.20	
* 3 Acenaphthene-d10	164	8.921	8.921	0.000	96	258959	3.20	3.20	
* 4 Phenanthrene-d10	188	10.171	10.171	0.000	98	422403	3.20	3.20	
* 5 Chrysene-d12	240	13.472	13.472	0.000	98	414767	3.20	3.20	
* 6 Perylene-d12	264	17.134	17.129	0.005	97	362357	3.20	3.20	
\$ 7 2-Fluorophenol	112	5.287	5.287	0.000	90	402572	10.0	9.69	
\$ 8 Phenol-d5	99	6.048	6.048	0.000	98	551694	10.0	9.46	
\$ 9 Nitrobenzene-d5	82	6.833	6.833	0.000	91	505660	10.0	10.8	
\$ 10 2-Fluorobiphenyl	172	8.331	8.331	0.000	99	1195426	10.0	9.69	
\$ 11 2,4,6-Tribromophenol	330	9.582	9.582	0.000	63	328680	10.0	9.81	
\$ 12 Terphenyl-d14	244	11.774	11.769	0.005	98	1233360	10.0	11.1	
13 1,4-Dioxane	88	3.675	3.671	0.004	91	137006	10.0	9.38	
14 N-Nitrosodimethylamine	42	3.999	3.994	0.005	71	401700	10.0	9.62	
15 Pyridine	79	4.051	4.046	0.005	89	1027861	20.0	19.4	
25 Phenol	94	6.063	6.058	0.005	95	613426	10.0	10.3	
26 Aniline	93	6.101	6.101	0.000	97	716212	10.0	9.68	
27 Bis(2-chloroethyl)ether	93	6.139	6.134	0.005	98	478561	10.0	9.57	
29 2-Chlorophenol	128	6.210	6.210	0.000	95	628181	10.0	10.4	
30 n-Decane	43	6.234	6.229	0.005	92	742650	10.0	9.73	
31 1,3-Dichlorobenzene	146	6.338	6.338	0.000	99	731857	10.0	10.5	
32 1,4-Dichlorobenzene	146	6.395	6.395	0.000	97	750575	10.0	10.5	
33 Benzyl alcohol	108	6.481	6.476	0.005	93	339118	10.0	9.58	
34 1,2-Dichlorobenzene	146	6.529	6.529	0.000	99	710237	10.0	10.4	
36 2-Methylphenol	107	6.557	6.557	0.000	96	412085	10.0	10.1	
35 2,2'-oxybis[1-chloropropan	45	6.581	6.581	0.000	90	1018140	10.0	9.41	
37 Indene	116	6.600	6.600	0.000	88	1707735	20.0	19.9	
42 3 & 4 Methylphenol	108	6.686	6.681	0.005	99	526546	10.0	10.3	
41 N-Nitrosodi-n-propylamine	70	6.700	6.695	0.005	80	334792	10.0	9.69	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
40 Acetophenone	105	6.705	6.700	0.005	93	766857	10.0	10.0	
44 Hexachloroethane	117	6.814	6.814	0.000	94	286434	10.0	10.0	
45 Nitrobenzene	77	6.852	6.847	0.005	89	461270	10.0	10.7	
47 Isophorone	82	7.047	7.042	0.005	98	770411	10.0	9.97	
48 2-Nitrophenol	139	7.114	7.114	0.000	89	314831	10.0	10.6	
49 2,4-Dimethylphenol	122	7.128	7.123	0.005	92	529833	10.0	10.5	
51 Bis(2-chloroethoxy)methane	93	7.199	7.199	0.000	98	596747	10.0	10.3	
52 Benzoic acid	122	7.251	7.237	0.014	92	610969	20.0	19.2	
54 2,4-Dichlorophenol	162	7.313	7.313	0.000	97	526560	10.0	10.7	
55 1,2,4-Trichlorobenzene	180	7.389	7.389	0.000	94	645480	10.0	9.76	
56 Naphthalene	128	7.465	7.461	0.004	99	1794224	10.0	10.9	
57 4-Chloroaniline	127	7.489	7.484	0.005	97	744705	10.0	10.3	
58 2,6-Dichlorophenol	162	7.503	7.499	0.004	96	534343	10.0	10.6	
60 Hexachlorobutadiene	225	7.561	7.561	0.000	95	381744	10.0	9.77	
65 4-Chloro-3-methylphenol	107	7.870	7.865	0.005	89	418109	10.0	10.4	
67 2-Methylnaphthalene	142	8.036	8.036	0.000	95	1241818	10.0	10.9	
68 1-Methylnaphthalene	142	8.122	8.122	0.000	95	1183308	10.0	10.8	
69 Hexachlorocyclopentadiene	237	8.174	8.174	0.000	94	434278	10.0	9.65	
70 1,2,4,5-Tetrachlorobenzene	216	8.184	8.179	0.005	96	672499	10.0	9.58	
72 2,4,6-Trichlorophenol	196	8.264	8.264	0.000	90	371357	10.0	9.77	
73 2,4,5-Trichlorophenol	196	8.298	8.293	0.005	95	389622	10.0	9.86	
75 1,1'-Biphenyl	154	8.421	8.421	0.000	94	1451685	10.0	10.7	
76 2-Chloronaphthalene	162	8.450	8.450	0.000	95	1154095	10.0	11.0	
78 2-Nitroaniline	65	8.516	8.516	0.000	90	229139	10.0	10.2	
82 Dimethyl phthalate	163	8.654	8.650	0.004	96	1096656	10.0	10.7	
83 1,3-Dinitrobenzene	168	8.688	8.683	0.005	85	145821	10.0	10.6	
84 2,6-Dinitrotoluene	165	8.707	8.707	0.000	95	241120	10.0	9.70	
85 Acenaphthylene	152	8.802	8.802	0.000	98	1545096	10.0	11.2	
86 3-Nitroaniline	138	8.859	8.859	0.000	92	265514	10.0	10.2	
88 2,4-Dinitrophenol	184	8.944	8.944	0.000	84	366751	20.0	19.4	
87 Acenaphthene	153	8.949	8.949	0.000	95	1231266	10.0	11.6	
89 4-Nitrophenol	109	8.978	8.973	0.005	90	306240	20.0	20.4	
91 2,4-Dinitrotoluene	165	9.054	9.049	0.005	95	294282	10.0	9.51	
92 Dibenzofuran	168	9.092	9.092	0.000	96	1531313	10.0	11.1	
95 2,3,4,6-Tetrachlorophenol	232	9.187	9.187	0.000	71	337279	10.0	9.77	
98 Hexadecane	57	9.239	9.235	0.004	67	606810	10.0	9.97	
97 Diethyl phthalate	149	9.239	9.235	0.004	96	1235380	10.0	11.1	
100 4-Chlorophenyl phenyl ethe	204	9.358	9.353	0.005	88	603137	10.0	9.38	
103 4-Nitroaniline	138	9.382	9.377	0.005	58	349269	10.0	9.83	
102 Fluorene	166	9.382	9.377	0.005	93	1287685	10.0	9.83	
104 4,6-Dinitro-2-methylphenol	198	9.406	9.401	0.005	85	367585	20.0	19.5	
106 N-Nitrosodiphenylamine	169	9.453	9.453	0.000	63	799862	10.0	9.83	
105 Diphenylamine	169	9.453	9.453	0.000	94	799862	8.50	9.15	
107 1,2-Diphenylhydrazine	77	9.491	9.491	0.000	99	949182	10.0	10.0	
114 4-Bromophenyl phenyl ether	248	9.772	9.767	0.005	74	421007	10.0	9.86	
117 Hexachlorobenzene	284	9.857	9.858	-0.001	96	558906	10.0	9.87	
120 Pentachlorophenol	266	10.010	10.005	0.005	85	735363	20.0	19.8	
123 n-Octadecane	43	10.005	10.005	0.000	80	476978	10.0	8.58	
126 Phenanthrene	178	10.195	10.195	0.000	97	1711730	10.0	9.93	
127 Anthracene	178	10.238	10.238	0.000	98	1780538	10.0	9.95	
128 Carbazole	167	10.357	10.357	0.000	96	1408938	10.0	11.0	
130 Di-n-butyl phthalate	149	10.618	10.614	0.004	99	1781869	10.0	10.9	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
135 Fluoranthene	202	11.355	11.351	0.004	98	1664002	10.0	9.81	
136 Benzidine	184	11.460	11.460	0.000	97	658689	10.0	10.5	
137 Pyrene	202	11.631	11.627	0.004	95	1664299	10.0	10.6	
145 Butyl benzyl phthalate	149	12.425	12.421	0.004	94	710888	10.0	10.1	
147 3,3'-Dichlorobenzidine	252	13.377	13.372	0.005	99	537598	10.0	10.1	
150 Bis(2-ethylhexyl) phthalat	149	13.443	13.443	0.000	94	1126410	10.0	10.5	
149 Benzo[a]anthracene	228	13.453	13.453	0.000	99	1679765	10.0	10.8	
151 Chrysene	228	13.529	13.524	0.005	97	1366674	10.0	10.6	
154 Di-n-octyl phthalate	149	14.913	14.908	0.005	74	1477407	10.0	10.4	
156 Benzo[b]fluoranthene	252	15.964	15.949	0.015	98	1222608	10.0	10.8	
157 Benzo[k]fluoranthene	252	16.044	16.035	0.009	99	1311680	10.0	11.1	
158 Benzo[a]pyrene	252	16.962	16.953	0.009	96	1200043	10.0	10.9	
162 Indeno[1,2,3-cd]pyrene	276	20.091	20.082	0.009	99	1581372	10.0	9.71	
163 Dibenz(a,h)anthracene	278	20.153	20.144	0.009	93	1346015	10.0	9.59	
164 Benzo[g,h,i]perylene	276	20.748	20.734	0.014	96	1263463	10.0	10.6	
S 173 Methyl Phenols, Total	1				0			20.4	

Reagents:

SMlst1_5uLL9_00042

Amount Added: 1.00

Units: mL

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS12\20180815-54379.b\L1STD50.D

Injection Date: 15-Aug-2018 21:24:30

Instrument ID: CMS12

Operator ID: DA

Lims ID: ic

Worklist Smp#: 10

Client ID:

Injection Vol: 5.0 ul

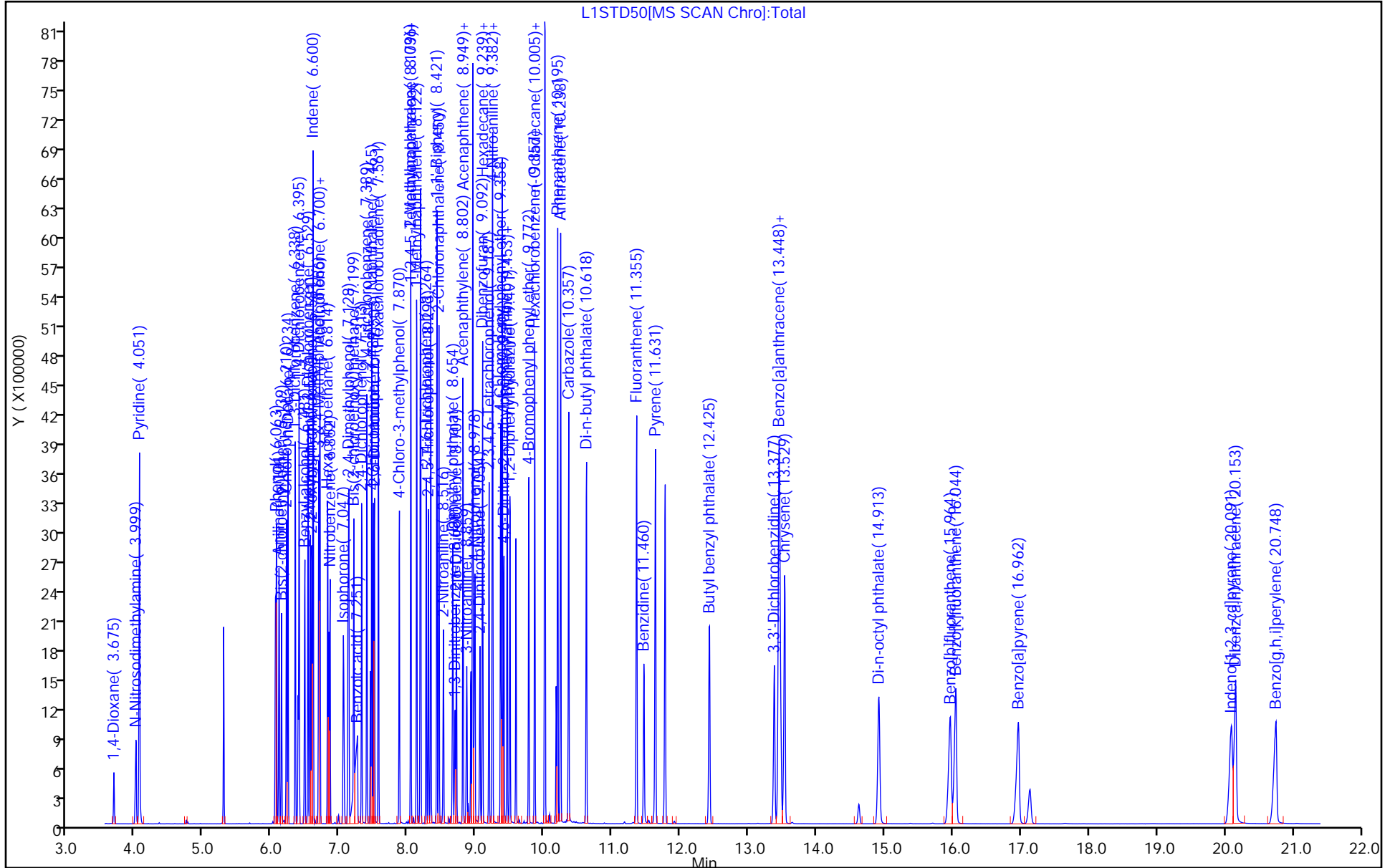
Dil. Factor: 1.0000

ALS Bottle#: 10

Method: 12-LV18270

Limit Group: MSBNA_8270D_ICAL

Column: ZB5MS (0.25 mm)



TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS12\20180815-54379.b\L1STD60.D
 Lims ID: ic
 Client ID:
 Sample Type: IC Calib Level: 10
 Inject. Date: 15-Aug-2018 21:54:30 ALS Bottle#: 11 Worklist Smp#: 11
 Injection Vol: 5.0 ul Dil. Factor: 1.0000
 Sample Info: ic
 Misc. Info.: 500-0054379-011
 Operator ID: DA Instrument ID: CMS12
 Sublist: chrom-12-LVI8270*sub102

Method: \\ChromNA\Chicago\ChromData\CMS12\20180815-54379.b\12-LVI8270.m
 Limit Group: MSBNA_8270D_ICAL
 Method Label: TestAmerica Chicago GC/MS SVOA
 Last Update: 16-Aug-2018 08:19:38 Calib Date: 15-Aug-2018 22:24:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Chicago\ChromData\CMS12\20180815-54379.b\L1STD70.D

Column 1 : ZB5MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK005

First Level Reviewer: rynkarg

Date: 16-Aug-2018 07:11:00

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.381	6.381	0.000	95	126484	3.20	3.20	
* 2 Naphthalene-d8	136	7.446	7.442	0.004	99	497053	3.20	3.20	
* 3 Acenaphthene-d10	164	8.921	8.921	0.000	96	226169	3.20	3.20	
* 4 Phenanthrene-d10	188	10.171	10.171	0.000	98	369024	3.20	3.20	
* 5 Chrysene-d12	240	13.476	13.472	0.004	98	373860	3.20	3.20	
* 6 Perylene-d12	264	17.133	17.129	0.004	98	320242	3.20	3.20	
\$ 7 2-Fluorophenol	112	5.287	5.287	0.000	90	519346	12.0	12.5	
\$ 8 Phenol-d5	99	6.053	6.048	0.005	99	656502	12.0	12.6	
\$ 9 Nitrobenzene-d5	82	6.833	6.833	0.000	91	600778	12.0	14.4	
\$ 10 2-Fluorobiphenyl	172	8.331	8.331	0.000	99	1424456	12.0	13.2	
\$ 11 2,4,6-Tribromophenol	330	9.586	9.582	0.004	66	400015	12.0	12.4	
\$ 12 Terphenyl-d14	244	11.774	11.769	0.005	98	1499538	12.0	15.0	
13 1,4-Dioxane	88	3.675	3.671	0.004	92	196553	12.0	12.7	
14 N-Nitrosodimethylamine	42	4.003	3.994	0.009	71	476434	12.0	12.9	
15 Pyridine	79	4.051	4.046	0.005	90	1243075	24.0	25.7	
25 Phenol	94	6.067	6.058	0.009	95	744013	12.0	14.0	
26 Aniline	93	6.105	6.101	0.004	98	869270	12.0	13.2	
27 Bis(2-chloroethyl)ether	93	6.139	6.134	0.005	98	572052	12.0	12.9	
29 2-Chlorophenol	128	6.210	6.210	0.000	95	763704	12.0	14.3	
30 n-Decane	43	6.234	6.229	0.005	93	902562	12.0	13.3	
31 1,3-Dichlorobenzene	146	6.343	6.338	0.005	98	881760	12.0	14.3	
32 1,4-Dichlorobenzene	146	6.395	6.395	0.000	97	918975	12.0	14.5	
33 Benzyl alcohol	108	6.481	6.476	0.005	93	402325	12.0	12.8	
34 1,2-Dichlorobenzene	146	6.529	6.529	0.000	99	858902	12.0	14.2	
36 2-Methylphenol	107	6.557	6.557	0.000	95	494274	12.0	13.7	
35 2,2'-oxybis[1-chloropropan	45	6.586	6.581	0.005	91	1209194	12.0	12.6	
37 Indene	116	6.605	6.600	0.005	88	1953988	24.0	25.6	
42 3 & 4 Methylphenol	108	6.685	6.681	0.004	98	632419	12.0	13.9	
41 N-Nitrosodi-n-propylamine	70	6.700	6.695	0.005	81	396660	12.0	12.9	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
40 Acetophenone	105	6.704	6.700	0.004	95	925119	12.0	13.6	
44 Hexachloroethane	117	6.814	6.814	0.000	93	348192	12.0	13.7	
45 Nitrobenzene	77	6.852	6.847	0.005	89	554203	12.0	14.5	
47 Isophorone	82	7.052	7.042	0.010	98	911220	12.0	13.3	
48 2-Nitrophenol	139	7.118	7.114	0.004	87	383484	12.0	14.6	
49 2,4-Dimethylphenol	122	7.128	7.123	0.005	92	636550	12.0	14.1	
51 Bis(2-chloroethoxy)methane	93	7.199	7.199	0.000	98	710201	12.0	13.8	
52 Benzoic acid	122	7.261	7.237	0.024	92	748094	24.0	25.9	
54 2,4-Dichlorophenol	162	7.318	7.313	0.005	95	639518	12.0	14.7	
55 1,2,4-Trichlorobenzene	180	7.394	7.389	0.005	94	768768	12.0	13.0	
56 Naphthalene	128	7.465	7.461	0.004	99	2111886	12.0	14.4	
57 4-Chloroaniline	127	7.489	7.484	0.005	97	901563	12.0	14.0	
58 2,6-Dichlorophenol	162	7.503	7.499	0.004	96	646164	12.0	14.5	
60 Hexachlorobutadiene	225	7.560	7.561	-0.001	94	456468	12.0	13.0	
65 4-Chloro-3-methylphenol	107	7.870	7.865	0.005	89	504830	12.0	14.1	
67 2-Methylnaphthalene	142	8.041	8.036	0.005	95	1484304	12.0	14.6	
68 1-Methylnaphthalene	142	8.126	8.122	0.004	95	1401121	12.0	14.4	
69 Hexachlorocyclopentadiene	237	8.179	8.174	0.005	94	511254	12.0	12.8	
70 1,2,4,5-Tetrachlorobenzene	216	8.183	8.179	0.004	95	797705	12.0	12.8	
72 2,4,6-Trichlorophenol	196	8.264	8.264	0.000	90	455443	12.0	12.4	
73 2,4,5-Trichlorophenol	196	8.298	8.293	0.005	95	468081	12.0	12.4	
75 1,1'-Biphenyl	154	8.421	8.421	0.000	94	1717802	12.0	14.5	
76 2-Chloronaphthalene	162	8.455	8.450	0.005	95	1382163	12.0	15.1	
78 2-Nitroaniline	65	8.516	8.516	0.000	91	273843	12.0	13.9	
82 Dimethyl phthalate	163	8.659	8.650	0.009	96	1297847	12.0	14.5	
83 1,3-Dinitrobenzene	168	8.692	8.683	0.009	86	176217	12.0	14.6	
84 2,6-Dinitrotoluene	165	8.711	8.707	0.004	93	292748	12.0	12.4	
85 Acenaphthylene	152	8.806	8.802	0.004	98	1814240	12.0	15.0	
86 3-Nitroaniline	138	8.864	8.859	0.005	92	320242	12.0	14.1	
88 2,4-Dinitrophenol	184	8.949	8.944	0.005	85	438798	24.0	25.5	
87 Acenaphthene	153	8.949	8.949	0.000	94	1419162	12.0	15.3	
89 4-Nitrophenol	109	8.982	8.973	0.009	89	362868	24.0	27.7	
91 2,4-Dinitrotoluene	165	9.058	9.049	0.009	95	354377	12.0	13.1	
92 Dibenzofuran	168	9.092	9.092	0.000	96	1803424	12.0	14.9	
95 2,3,4,6-Tetrachlorophenol	232	9.187	9.187	0.000	70	415118	12.0	12.4	
97 Diethyl phthalate	149	9.239	9.235	0.004	96	1408603	12.0	14.5	
98 Hexadecane	57	9.239	9.235	0.004	65	675048	12.0	12.7	
100 4-Chlorophenyl phenyl ethe	204	9.358	9.353	0.005	88	736539	12.0	12.9	
102 Fluorene	166	9.382	9.377	0.005	93	1503845	12.0	13.1	
103 4-Nitroaniline	138	9.382	9.377	0.005	84	406748	12.0	12.9	
104 4,6-Dinitro-2-methylphenol	198	9.410	9.401	0.009	84	458359	24.0	24.8	
105 Diphenylamine	169	9.453	9.453	0.000	93	963748	10.2	12.6	
106 N-Nitrosodiphenylamine	169	9.453	9.453	0.000	63	963748	12.0	12.4	
107 1,2-Diphenylhydrazine	77	9.496	9.491	0.005	100	1115667	12.0	13.5	
114 4-Bromophenyl phenyl ether	248	9.772	9.767	0.005	59	509748	12.0	12.4	
117 Hexachlorobenzene	284	9.857	9.858	-0.001	96	674321	12.0	12.4	
123 n-Octadecane	43	10.005	10.005	0.000	82	518736	12.0	10.7	
120 Pentachlorophenol	266	10.010	10.005	0.005	84	839047	24.0	25.5	
126 Phenanthrene	178	10.195	10.195	0.000	97	2028027	12.0	12.4	
127 Anthracene	178	10.243	10.238	0.005	98	2105497	12.0	12.4	
128 Carbazole	167	10.357	10.357	0.000	96	1650642	12.0	14.7	
130 Di-n-butyl phthalate	149	10.618	10.614	0.004	99	2139685	12.0	15.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
135 Fluoranthene	202	11.355	11.351	0.004	98	2020872	12.0	12.4	
136 Benzidine	184	11.465	11.460	0.005	97	789076	12.0	14.0	
137 Pyrene	202	11.631	11.627	0.004	95	2024657	12.0	14.3	
145 Butyl benzyl phthalate	149	12.425	12.421	0.004	94	864064	12.0	13.7	
147 3,3'-Dichlorobenzidine	252	13.381	13.372	0.009	99	656235	12.0	13.6	
150 Bis(2-ethylhexyl) phthalat	149	13.448	13.443	0.005	94	1363867	12.0	14.1	
149 Benzo[a]anthracene	228	13.457	13.453	0.004	99	2039198	12.0	14.6	
151 Chrysene	228	13.533	13.524	0.009	97	1670733	12.0	14.4	
154 Di-n-octyl phthalate	149	14.917	14.908	0.009	74	1798575	12.0	14.5	
156 Benzo[b]fluoranthene	252	15.968	15.949	0.019	98	1528901	12.0	15.3	
157 Benzo[k]fluoranthene	252	16.049	16.035	0.014	99	1569781	12.0	15.0	
158 Benzo[a]pyrene	252	16.967	16.953	0.014	96	1467439	12.0	15.1	
162 Indeno[1,2,3-cd]pyrene	276	20.101	20.082	0.019	99	1935178	12.0	12.5	
163 Dibenz(a,h)anthracene	278	20.158	20.144	0.014	93	1713700	12.0	12.5	
164 Benzo[g,h,i]perylene	276	20.752	20.734	0.018	96	1542614	12.0	14.7	
S 173 Methyl Phenols, Total	1				0			27.6	

Reagents:

SMlst1_5uLL10_00042

Amount Added: 1.00

Units: mL

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS12\20180815-54379.b\L1STD60.D

Injection Date: 15-Aug-2018 21:54:30

Instrument ID: CMS12

Operator ID: DA

Lims ID: ic

Worklist Smp#: 11

Client ID:

Injection Vol: 5.0 ul

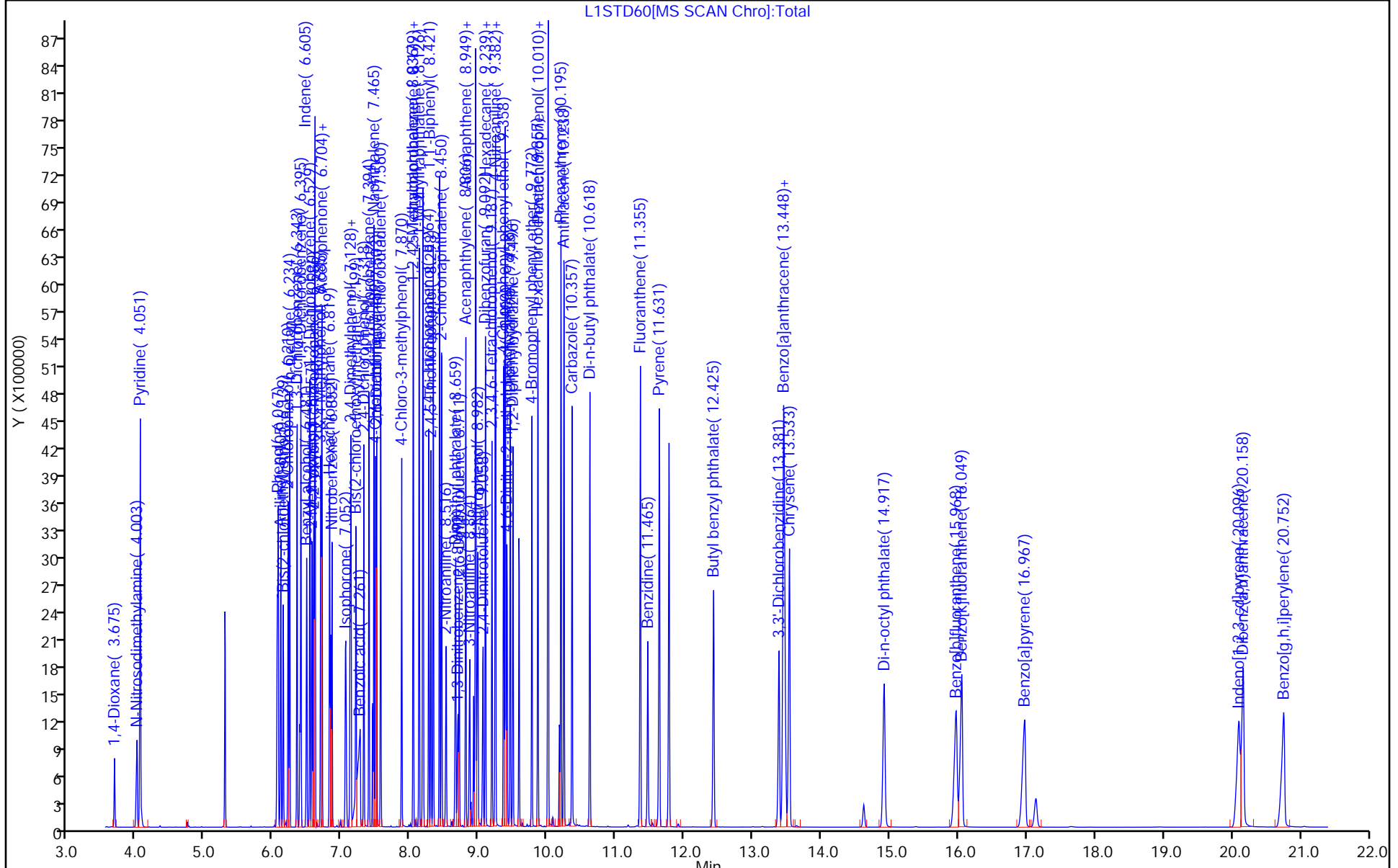
Dil. Factor: 1.0000

ALS Bottle#: 11

Method: 12-LV18270

Limit Group: MSBNA_8270D_ICAL

Column: ZB5MS (0.25 mm)



TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS12\20180815-54379.b\L1STD70.D
 Lims ID: ic
 Client ID:
 Sample Type: IC Calib Level: 11
 Inject. Date: 15-Aug-2018 22:24:30 ALS Bottle#: 12 Worklist Smp#: 12
 Injection Vol: 5.0 ul Dil. Factor: 1.0000
 Sample Info: ic
 Misc. Info.: 500-0054379-012
 Operator ID: DA Instrument ID: CMS12
 Sublist: chrom-12-LVI8270*sub102
 Method: \\ChromNA\Chicago\ChromData\CMS12\20180815-54379.b\12-LVI8270.m
 Limit Group: MSBNA_8270D_ICAL
 Method Label: TestAmerica Chicago GC/MS SVOA
 Last Update: 16-Aug-2018 08:19:44 Calib Date: 15-Aug-2018 22:24:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Chicago\ChromData\CMS12\20180815-54379.b\L1STD70.D
 Column 1 : ZB5MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK005

First Level Reviewer: rynkarg

Date: 16-Aug-2018 07:12:29

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.381	6.381	0.000	95	147242	3.20	3.20	
* 2 Naphthalene-d8	136	7.447	7.442	0.004	99	571170	3.20	3.20	
* 3 Acenaphthene-d10	164	8.921	8.921	0.000	96	257924	3.20	3.20	
* 4 Phenanthrene-d10	188	10.176	10.171	0.005	98	418648	3.20	3.20	
* 5 Chrysene-d12	240	13.481	13.472	0.009	98	438822	3.20	3.20	
* 6 Perylene-d12	264	17.138	17.129	0.009	98	371508	3.20	3.20	
\$ 7 2-Fluorophenol	112	5.292	5.287	0.005	89	705891	14.0	13.9	
\$ 8 Phenol-d5	99	6.058	6.048	0.010	99	864230	14.0	14.3	
\$ 9 Nitrobenzene-d5	82	6.838	6.833	0.005	90	775876	14.0	16.2	
\$ 10 2-Fluorobiphenyl	172	8.331	8.331	0.000	99	1813448	14.0	14.7	
\$ 11 2,4,6-Tribromophenol	330	9.587	9.582	0.004	62	534560	14.0	13.8	
\$ 12 Terphenyl-d14	244	11.779	11.769	0.010	98	2001740	14.0	17.0	
13 1,4-Dioxane	88	3.675	3.671	0.004	92	260315	14.0	13.7	
14 N-Nitrosodimethylamine	42	4.008	3.994	0.014	72	600672	14.0	13.9	
15 Pyridine	79	4.056	4.046	0.010	93	1543007	28.0	27.2	
25 Phenol	94	6.072	6.058	0.014	96	973713	14.0	15.8	
26 Aniline	93	6.105	6.101	0.004	97	1117484	14.0	14.6	
27 Bis(2-chloroethyl)ether	93	6.143	6.134	0.009	98	730640	14.0	14.2	
29 2-Chlorophenol	128	6.215	6.210	0.005	93	982761	14.0	15.8	
30 n-Decane	43	6.234	6.229	0.005	94	1057095	14.0	13.4	
31 1,3-Dichlorobenzene	146	6.343	6.338	0.005	98	1155734	14.0	16.1	
32 1,4-Dichlorobenzene	146	6.400	6.395	0.005	97	1168480	14.0	15.9	
33 Benzyl alcohol	108	6.486	6.476	0.010	93	521499	14.0	14.3	
34 1,2-Dichlorobenzene	146	6.529	6.529	0.000	99	1106814	14.0	15.7	
36 2-Methylphenol	107	6.562	6.557	0.005	94	648068	14.0	15.4	
35 2,2'-oxybis[1-chloropropan	45	6.586	6.581	0.005	91	1513197	14.0	13.5	
37 Indene	116	6.605	6.600	0.005	88	2377268	28.0	26.8	
42 3 & 4 Methylphenol	108	6.690	6.681	0.009	98	812187	14.0	15.3	
41 N-Nitrosodi-n-propylamine	70	6.705	6.695	0.010	80	492821	14.0	13.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
40 Acetophenone	105	6.709	6.700	0.009	90	1147795	14.0	14.5	
44 Hexachloroethane	117	6.819	6.814	0.005	92	439352	14.0	14.9	
45 Nitrobenzene	77	6.857	6.847	0.010	88	715172	14.0	16.2	
47 Isophorone	82	7.057	7.042	0.015	98	1160545	14.0	14.7	
48 2-Nitrophenol	139	7.118	7.114	0.004	87	499410	14.0	16.5	
49 2,4-Dimethylphenol	122	7.133	7.123	0.010	92	814442	14.0	15.7	
51 Bis(2-chloroethoxy)methane	93	7.204	7.199	0.005	99	910352	14.0	15.4	
52 Benzoic acid	122	7.280	7.237	0.043	92	972389	28.0	29.1	
54 2,4-Dichlorophenol	162	7.318	7.313	0.005	95	837825	14.0	16.7	
55 1,2,4-Trichlorobenzene	180	7.394	7.389	0.005	93	985038	14.0	14.4	
56 Naphthalene	128	7.466	7.461	0.005	99	2651500	14.0	15.7	
57 4-Chloroaniline	127	7.494	7.484	0.010	97	1168968	14.0	15.8	
58 2,6-Dichlorophenol	162	7.504	7.499	0.005	96	857496	14.0	16.7	
60 Hexachlorobutadiene	225	7.565	7.561	0.004	94	587946	14.0	14.5	
65 4-Chloro-3-methylphenol	107	7.870	7.865	0.005	90	646101	14.0	15.7	
67 2-Methylnaphthalene	142	8.041	8.036	0.005	95	1816652	14.0	15.6	
68 1-Methylnaphthalene	142	8.127	8.122	0.005	95	1738661	14.0	15.6	
69 Hexachlorocyclopentadiene	237	8.179	8.174	0.005	93	642574	14.0	14.0	
70 1,2,4,5-Tetrachlorobenzene	216	8.184	8.179	0.005	95	1011436	14.0	14.2	
72 2,4,6-Trichlorophenol	196	8.264	8.264	0.000	89	598807	14.0	13.7	
73 2,4,5-Trichlorophenol	196	8.298	8.293	0.005	95	618728	14.0	13.7	
75 1,1'-Biphenyl	154	8.426	8.421	0.005	94	2117167	14.0	15.6	
76 2-Chloronaphthalene	162	8.455	8.450	0.005	95	1731767	14.0	16.6	
78 2-Nitroaniline	65	8.521	8.516	0.005	91	346534	14.0	15.4	
82 Dimethyl phthalate	163	8.659	8.650	0.009	96	1650407	14.0	16.1	
83 1,3-Dinitrobenzene	168	8.697	8.683	0.014	88	230332	14.0	16.8	
84 2,6-Dinitrotoluene	165	8.711	8.707	0.004	95	387950	14.0	13.8	
85 Acenaphthylene	152	8.807	8.802	0.005	98	2336582	14.0	17.0	
86 3-Nitroaniline	138	8.868	8.859	0.009	91	405396	14.0	15.6	
88 2,4-Dinitrophenol	184	8.954	8.944	0.010	63	552943	28.0	27.9	
87 Acenaphthene	153	8.954	8.949	0.005	94	1693428	14.0	16.0	
89 4-Nitrophenol	109	8.987	8.973	0.014	87	460470	28.0	30.9	
91 2,4-Dinitrotoluene	165	9.059	9.049	0.010	95	460637	14.0	14.9	
92 Dibenzofuran	168	9.097	9.092	0.005	96	2274726	14.0	16.5	
95 2,3,4,6-Tetrachlorophenol	232	9.192	9.187	0.005	70	543762	14.0	13.7	
98 Hexadecane	57	9.239	9.235	0.004	92	753621	14.0	12.4	
97 Diethyl phthalate	149	9.244	9.235	0.009	97	1662891	14.0	15.0	
100 4-Chlorophenyl phenyl ethe	204	9.358	9.353	0.005	88	957943	14.0	14.6	
103 4-Nitroaniline	138	9.387	9.377	0.010	83	495921	14.0	13.8	
102 Fluorene	166	9.387	9.377	0.010	93	1862112	14.0	14.2	
104 4,6-Dinitro-2-methylphenol	198	9.411	9.401	0.010	87	610052	28.0	27.5	
106 N-Nitrosodiphenylamine	169	9.458	9.453	0.005	63	1233595	14.0	13.6	
105 Diphenylamine	169	9.458	9.453	0.005	93	1233595	11.9	14.2	
107 1,2-Diphenylhydrazine	77	9.496	9.491	0.005	100	1400829	14.0	14.9	
114 4-Bromophenyl phenyl ether	248	9.772	9.767	0.005	60	674783	14.0	13.7	
117 Hexachlorobenzene	284	9.862	9.858	0.004	96	877113	14.0	13.6	
120 Pentachlorophenol	266	10.015	10.005	0.009	84	982823	28.0	26.3	
123 n-Octadecane	43	10.005	10.005	0.000	96	558100	14.0	10.1	
126 Phenanthrene	178	10.200	10.195	0.005	97	2555410	14.0	13.4	
127 Anthracene	178	10.243	10.238	0.005	98	2659203	14.0	13.4	
128 Carbazole	167	10.362	10.357	0.005	96	2047075	14.0	16.1	
130 Di-n-butyl phthalate	149	10.618	10.614	0.004	99	2706184	14.0	16.8	

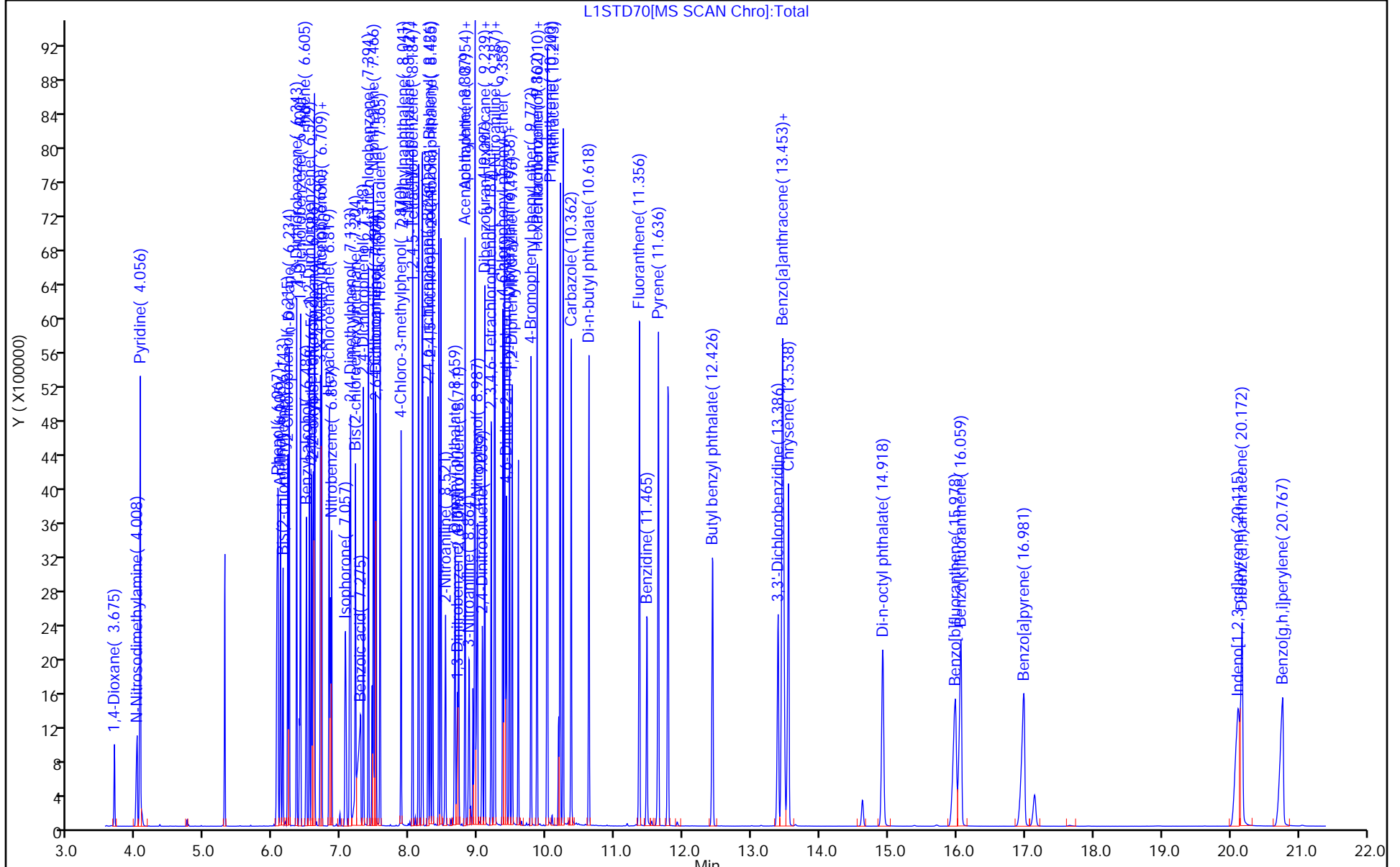
Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
135 Fluoranthene	202	11.360	11.351	0.009	98	2619724	14.0	13.6	
136 Benzidine	184	11.470	11.460	0.010	97	1040151	14.0	15.7	
137 Pyrene	202	11.636	11.627	0.009	95	2628424	14.0	15.8	
145 Butyl benzyl phthalate	149	12.430	12.421	0.009	94	1131335	14.0	15.3	
147 3,3'-Dichlorobenzidine	252	13.386	13.372	0.014	99	890949	14.0	15.8	
150 Bis(2-ethylhexyl) phthalat	149	13.448	13.443	0.005	94	1781891	14.0	15.6	
149 Benzo[a]anthracene	228	13.462	13.453	0.009	99	2699154	14.0	16.5	
151 Chrysene	228	13.538	13.524	0.014	97	2220099	14.0	16.3	
154 Di-n-octyl phthalate	149	14.918	14.908	0.010	76	2359893	14.0	16.8	
156 Benzo[b]fluoranthene	252	15.978	15.949	0.029	97	2008357	14.0	17.3	
157 Benzo[k]fluoranthene	252	16.059	16.035	0.024	99	2125904	14.0	17.6	
158 Benzo[a]pyrene	252	16.981	16.953	0.028	96	1949127	14.0	17.3	
162 Indeno[1,2,3-cd]pyrene	276	20.111	20.082	0.029	99	2566193	14.0	13.8	
163 Dibenz(a,h)anthracene	278	20.172	20.144	0.028	93	2294630	14.0	13.8	
164 Benzo[g,h,i]perylene	276	20.767	20.734	0.033	96	2010803	14.0	16.5	
S 173 Methyl Phenols, Total	1				0			30.8	

Reagents:

SM1st1_5uLL11_00042

Amount Added: 1.00

Units: mL



FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-150867-2

SDG No.: _____

Lab Sample ID (1): CCVIS 500-448368/2 Instrument ID (1): CMS12

GC Column (1): ZB5MS ID: 0.25 (mm) Date Analyzed (1): 09/05/2018 08:44

ANALYTE	RT	RESOLUTION (%)
Benzo[b]fluoranthene	15.59	28.40

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS12\20180905-54832.b\12C0905.D
Injection Date: 05-Sep-2018 08:44:30 Instrument ID: CMS12
Lims ID: ccvis
Client ID:
Operator ID: AD ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: 12-LVI8270 Limit Group: MSBNA_8270D_ICAL

156 Benzo[b]fluoranthene - 157 Benzo[k]fluoranthene

SW-846 Method

Version D: $\%R = (V / ((H1 + H2)/2)) * 100$

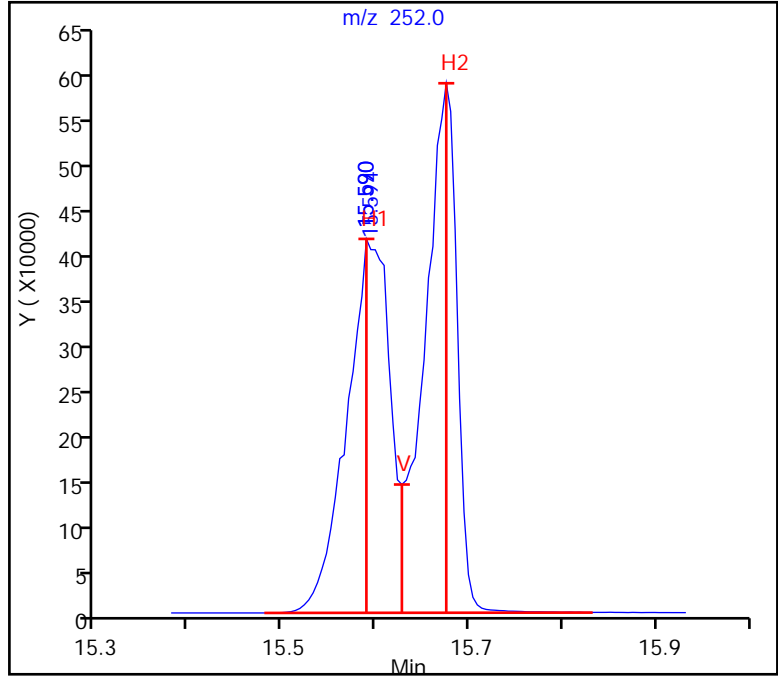
V (Valley Height) = 141988

H1(156 Benzo[b]fluoranthene) = 413836

H2(157 Benzo[k]fluoranthene) = 586033

Version D: $\%R = 28.4 \leq 50.0$

Passed



FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Chicago Job No.: 500-150867-2
 SDG No.: _____
 Lab Sample ID: ICV 500-445577/13 Calibration Date: 08/15/2018 22:53
 Instrument ID: CMS12 Calib Start Date: 08/15/2018 17:27
 GC Column: ZB5MS ID: 0.25 (mm) Calib End Date: 08/15/2018 22:24
 Lab File ID: L1ICV.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Qua2		0.3818	0.0100	10.8	10.0	7.8	30.0
N-Nitrosodimethylamine	Ave	0.9370	0.9299	0.0100	9.92	10.0	-0.8	30.0
Pyridine	Lin1		1.193	0.0100	20.0	20.0	0.0	30.0
Phenol	Ave	1.341	1.405	0.8000	10.5	10.0	4.7	30.0
Aniline	Ave	1.660	1.745	0.0100	10.5	10.0	5.1	30.0
Bis(2-chloroethyl)ether	Ave	1.122	1.102	0.7000	9.82	10.0	-1.8	30.0
2-Chlorophenol	Ave	1.355	1.439	0.8000	10.6	10.0	6.2	30.0
n-Decane	Ave	1.712	1.802	0.0100	10.5	10.0	5.2	30.0
1,3-Dichlorobenzene	Ave	1.557	1.699	0.0100	10.9	10.0	9.2	30.0
1,4-Dichlorobenzene	Ave	1.601	1.769	0.0100	11.0	10.0	10.5	30.0
Benzyl alcohol	Ave	0.7939	0.7892	0.0100	9.94	10.0	-0.6	30.0
1,2-Dichlorobenzene	Ave	1.530	1.648	0.0100	10.8	10.0	7.7	30.0
2-Methylphenol	Ave	0.9131	0.9803	0.7000	10.7	10.0	7.4	30.0
2,2'-oxybis[1-chloropropane]	Ave	2.429	2.287	0.0100	9.41	10.0	-5.9	30.0
Indene	Ave	1.929	2.249	0.0100	23.3	20.0	16.6	30.0
3 & 4 Methylphenol	Ave	1.150	1.225	0.6000	10.7	10.0	6.5	30.0
N-Nitrosodi-n-propylamine	Ave	0.7756	0.7838	0.5000	10.1	10.0	1.1	30.0
Acetophenone	Ave	1.715	1.772	0.0100	10.3	10.0	3.3	30.0
Hexachloroethane	Ave	0.6413	0.6543	0.3000	10.2	10.0	2.0	30.0
Nitrobenzene	Ave	0.2468	0.2741	0.2000	11.1	10.0	11.1	30.0
Isophorone	Ave	0.4427	0.4751	0.4000	10.7	10.0	7.3	30.0
2-Nitrophenol	Ave	0.1694	0.1882	0.1000	11.1	10.0	11.1	30.0
2,4-Dimethylphenol	Ave	0.2898	0.3086	0.2000	10.7	10.0	6.5	30.0
Bis(2-chloroethoxy)methane	Ave	0.3315	0.3531	0.3000	10.7	10.0	6.5	30.0
Benzoic acid	Lin1		0.1803	0.0100	19.7	20.0	-1.4	30.0
2,4-Dichlorophenol	Ave	0.2809	0.3134	0.2000	11.2	10.0	11.5	30.0
1,2,4-Trichlorobenzene	Lin1		0.3730	0.0100	9.84	10.0	-1.6	30.0
Naphthalene	Ave	0.9447	1.057	0.7000	11.2	10.0	11.9	30.0
4-Chloroaniline	Ave	0.4155	0.4421	0.0100	10.6	10.0	6.4	30.0
2,6-Dichlorophenol	Ave	0.2876	0.3177	0.0100	11.0	10.0	10.5	30.0
Hexachlorobutadiene	Lin1		0.2316	0.0100	10.3	10.0	3.2	30.0
4-Chloro-3-methylphenol	Ave	0.2307	0.2474	0.2000	10.7	10.0	7.3	30.0
2-Methylnaphthalene	Ave	0.6543	0.7309	0.4000	11.2	10.0	11.7	30.0
1-Methylnaphthalene	Ave	0.6251	0.6606	0.0100	10.6	10.0	5.7	30.0
Hexachlorocyclopentadiene	Lin1		0.6294	0.0500	11.2	10.0	12.1	30.0
1,2,4,5-Tetrachlorobenzene	Lin1		0.8816	0.0100	10.1	10.0	1.3	30.0
2,4,6-Trichlorophenol	Qua2		0.4845	0.2000	10.2	10.0	1.6	30.0
2,4,5-Trichlorophenol	Qua2		0.4900	0.2000	9.98	10.0	-0.2	30.0
1,1'-Biphenyl	Ave	1.681	1.884	0.0100	11.2	10.0	12.0	30.0
2-Chloronaphthalene	Ave	1.296	1.482	0.8000	11.4	10.0	14.3	30.0
2-Nitroaniline	Ave	0.2784	0.2984	0.0100	10.7	10.0	7.2	30.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Chicago Job No.: 500-150867-2
 SDG No.: _____
 Lab Sample ID: ICV 500-445577/13 Calibration Date: 08/15/2018 22:53
 Instrument ID: CMS12 Calib Start Date: 08/15/2018 17:27
 GC Column: ZB5MS ID: 0.25 (mm) Calib End Date: 08/15/2018 22:24
 Lab File ID: L1ICV.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dimethyl phthalate	Ave	1.270	1.386	0.0100	10.9	10.0	9.2	30.0
m-Dinitrobenzene	Ave	0.1706	0.1896	0.0100	11.1	10.0	11.1	30.0
2,6-Dinitrotoluene	Qua2		0.3105	0.2000	10.0	10.0	0.0	30.0
Acenaphthylene	Ave	1.707	2.183	0.9000	12.8	10.0	27.9	30.0
3-Nitroaniline	Ave	0.3217	0.3501	0.0100	10.9	10.0	8.9	30.0
2,4-Dinitrophenol	Lin1		0.2395	0.0100	20.3	20.0	1.6	30.0
Acenaphthene	Ave	1.312	1.577	0.9000	12.0	10.0	20.2	30.0
4-Nitrophenol	Ave	0.1851	0.1962	0.0100	21.2	20.0	6.0	30.0
2,4-Dinitrotoluene	Lin1		0.3791	0.2000	9.91	10.0	-0.9	30.0
Dibenzofuran	Ave	1.711	1.940	0.8000	11.3	10.0	13.4	30.0
2,3,4,6-Tetrachlorophenol	Qua2		0.4209	0.0100	9.84	10.0	-1.6	30.0
Diethyl phthalate	Ave	1.379	1.595	0.0100	11.6	10.0	15.7	30.0
Hexadecane	Ave	0.7518	0.7983	0.0100	10.6	10.0	6.2	30.0
4-Chlorophenyl phenyl ether	Lin1		0.7951	0.4000	9.97	10.0	-0.3	30.0
4-Nitroaniline	Lin1		0.4347	0.0100	9.89	10.0	-1.1	30.0
Fluorene	Lin1		1.667	0.9000	10.3	10.0	2.9	30.0
4,6-Dinitro-2-methylphenol	Qua2		0.1650	0.0100	21.9	20.0	9.6	30.0
Diphenylamine	Ave	0.6619	0.7228	0.0100	9.28	8.50	9.2	30.0
N-Nitrosodiphenylamine	Qua2		0.6144	0.0100	9.93	10.0	-0.7	30.0
1,2-Diphenylhydrazine	Ave	1.169	1.242	0.0100	10.6	10.0	6.2	30.0
4-Bromophenyl phenyl ether	Qua2		0.3147	0.1000	9.77	10.0	-2.3	30.0
Hexachlorobenzene	Qua2		0.4359	0.1000	10.1	10.0	0.8	30.0
n-Octadecane	Ave	0.4210	0.3710	0.0100	8.81	10.0	-11.9	30.0
Pentachlorophenol	Lin1		0.2978	0.0500	21.1	20.0	5.5	30.0
Phenanthrene	Qua2		1.310	0.7000	10.0	10.0	0.1	30.0
Anthracene	Qua2		1.336	0.7000	9.88	10.0	-1.2	30.0
Carbazole	Ave	0.9705	1.059	0.0100	10.9	10.0	9.1	30.0
Di-n-butyl phthalate	Ave	1.234	1.380	0.0100	11.2	10.0	11.8	30.0
Fluoranthene	Qua2		1.271	0.6000	9.86	10.0	-1.4	30.0
Benzidine	Ave	0.4832	0.5576	0.0100	<20.0	10.0	15.4	30.0
Pyrene	Ave	1.211	1.340	0.6000	11.1	10.0	10.6	30.0
Butyl benzyl phthalate	Ave	0.5408	0.5790	0.0100	10.7	10.0	7.1	30.0
3,3'-Dichlorobenzidine	Ave	0.4116	0.4589	0.0100	11.1	10.0	11.5	30.0
Bis(2-ethylhexyl) phthalate	Ave	0.8304	0.9132	0.0100	11.0	10.0	10.0	30.0
Benzo[a]anthracene	Ave	1.196	1.314	0.8000	11.0	10.0	9.8	30.0
Chrysene	Ave	0.9948	1.095	0.7000	11.0	10.0	10.0	30.0
Di-n-octyl phthalate	Ave	1.072	1.144	0.0100	10.7	10.0	6.7	30.0
Benzo[b]fluoranthene	Ave	1.002	1.133	0.7000	11.3	10.0	13.1	30.0
Benzo[k]fluoranthene	Ave	1.043	1.217	0.7000	11.7	10.0	16.7	30.0
Benzo[a]pyrene	Ave	0.9685	1.106	0.7000	11.4	10.0	14.2	30.0
Indeno[1,2,3-cd]pyrene	Qua2		1.418	0.5000	9.83	10.0	-1.7	30.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Chicago Job No.: 500-150867-2
 SDG No.: _____
 Lab Sample ID: ICV 500-445577/13 Calibration Date: 08/15/2018 22:53
 Instrument ID: CMS12 Calib Start Date: 08/15/2018 17:27
 GC Column: ZB5MS ID: 0.25 (mm) Calib End Date: 08/15/2018 22:24
 Lab File ID: L1ICV.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dibenz(a,h)anthracene	Qua2		1.221	0.4000	9.78	10.0	-2.2	30.0
Benzo[g,h,i]perylene	Ave	1.049	1.140	0.5000	10.9	10.0	8.7	30.0

TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS12\20180815-54379.b\L1ICV.D
 Lims ID: icv
 Client ID:
 Sample Type: ICV
 Inject. Date: 15-Aug-2018 22:53:30 ALS Bottle#: 13 Worklist Smp#: 13
 Injection Vol: 5.0 ul Dil. Factor: 1.0000
 Sample Info: icv
 Misc. Info.: 500-0054379-013
 Operator ID: DA Instrument ID: CMS12
 Sublist:
 Method: \\ChromNA\Chicago\ChromData\CMS12\20180815-54379.b\12-LVI8270.m
 Limit Group: MSBNA_8270D_ICAL
 Method Label: TestAmerica Chicago GC/MS SVOA
 Last Update: 16-Aug-2018 08:19:44 Calib Date: 15-Aug-2018 22:24:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Chicago\ChromData\CMS12\20180815-54379.b\L1STD70.D
 Column 1 : ZB5MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK005

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.381	6.381	0.000	94	132581	3.20	3.20	
* 2 Naphthalene-d8	136	7.442	7.442	0.000	99	522504	3.20	3.20	
* 3 Acenaphthene-d10	164	8.921	8.921	0.000	96	239580	3.20	3.20	
* 4 Phenanthrene-d10	188	10.171	10.171	0.000	97	396872	3.20	3.20	
* 5 Chrysene-d12	240	13.472	13.472	0.000	98	378358	3.20	3.20	
* 6 Perylene-d12	264	17.129	17.129	0.000	97	335707	3.20	3.20	
13 1,4-Dioxane	88	3.675	3.671	0.004	91	158195	10.0	10.8	
14 N-Nitrosodimethylamine	42	4.003	3.994	0.009	71	385270	10.0	9.92	
15 Pyridine	79	4.051	4.046	0.005	90	988677	20.0	20.0	
25 Phenol	94	6.058	6.058	0.000	94	581978	10.0	10.5	
26 Aniline	93	6.101	6.101	0.000	97	723009	10.0	10.5	
27 Bis(2-chloroethyl)ether	93	6.139	6.134	0.005	98	456509	10.0	9.82	
29 2-Chlorophenol	128	6.210	6.210	0.000	94	596328	10.0	10.6	
30 n-Decane	43	6.234	6.229	0.005	92	746454	10.0	10.5	
31 1,3-Dichlorobenzene	146	6.338	6.338	0.000	98	704025	10.0	10.9	
32 1,4-Dichlorobenzene	146	6.395	6.395	0.000	96	732864	10.0	11.0	
33 Benzyl alcohol	108	6.481	6.476	0.005	93	326964	10.0	9.94	
34 1,2-Dichlorobenzene	146	6.529	6.529	0.000	99	682927	10.0	10.8	
36 2-Methylphenol	107	6.557	6.557	0.000	95	406150	10.0	10.7	
35 2,2'-oxybis[1-chloropropan	45	6.586	6.581	0.005	90	947400	10.0	9.41	
37 Indene	116	6.605	6.600	0.005	88	1863367	20.0	23.3	
42 3 & 4 Methylphenol	108	6.681	6.681	0.000	99	507487	10.0	10.7	
41 N-Nitrosodi-n-propylamine	70	6.695	6.695	0.000	80	324729	10.0	10.1	
40 Acetophenone	105	6.705	6.700	0.005	93	734291	10.0	10.3	
44 Hexachloroethane	117	6.814	6.814	0.000	94	271077	10.0	10.2	
45 Nitrobenzene	77	6.847	6.847	0.000	90	447562	10.0	11.1	
47 Isophorone	82	7.047	7.042	0.005	98	775768	10.0	10.7	
48 2-Nitrophenol	139	7.114	7.114	0.000	89	307218	10.0	11.1	
49 2,4-Dimethylphenol	122	7.128	7.123	0.005	92	503941	10.0	10.7	
51 Bis(2-chloroethoxy)methane	93	7.199	7.199	0.000	98	576582	10.0	10.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
52 Benzoic acid	122	7.251	7.237	0.014	92	588862	20.0	19.7	
54 2,4-Dichlorophenol	162	7.313	7.313	0.000	97	511657	10.0	11.2	
55 1,2,4-Trichlorobenzene	180	7.389	7.389	0.000	94	609011	10.0	9.84	
56 Naphthalene	128	7.465	7.461	0.004	99	1726060	10.0	11.2	
57 4-Chloroaniline	127	7.489	7.484	0.005	97	721870	10.0	10.6	
58 2,6-Dichlorophenol	162	7.504	7.499	0.005	96	518788	10.0	11.0	
60 Hexachlorobutadiene	225	7.561	7.561	0.000	95	378106	10.0	10.3	
65 4-Chloro-3-methylphenol	107	7.870	7.865	0.005	89	404001	10.0	10.7	
67 2-Methylnaphthalene	142	8.036	8.036	0.000	95	1193444	10.0	11.2	
68 1-Methylnaphthalene	142	8.122	8.122	0.000	95	1078569	10.0	10.6	
69 Hexachlorocyclopentadiene	237	8.174	8.174	0.000	93	471216	10.0	11.2	
70 1,2,4,5-Tetrachlorobenzene	216	8.184	8.179	0.005	95	660062	10.0	10.1	
72 2,4,6-Trichlorophenol	196	8.264	8.264	0.000	90	362740	10.0	10.2	
73 2,4,5-Trichlorophenol	196	8.293	8.293	0.000	96	366868	10.0	9.98	
75 1,1'-Biphenyl	154	8.421	8.421	0.000	94	1410174	10.0	11.2	
76 2-Chloronaphthalene	162	8.450	8.450	0.000	95	1109624	10.0	11.4	
78 2-Nitroaniline	65	8.516	8.516	0.000	90	223431	10.0	10.7	
82 Dimethyl phthalate	163	8.654	8.650	0.004	97	1037976	10.0	10.9	
83 1,3-Dinitrobenzene	168	8.688	8.683	0.005	86	141949	10.0	11.1	
84 2,6-Dinitrotoluene	165	8.707	8.707	0.000	94	232473	10.0	10.0	
85 Acenaphthylene	152	8.802	8.802	0.000	98	1634667	10.0	12.8	
86 3-Nitroaniline	138	8.859	8.859	0.000	91	262133	10.0	10.9	
88 2,4-Dinitrophenol	184	8.944	8.944	0.000	85	358602	20.0	20.3	
87 Acenaphthene	153	8.949	8.949	0.000	94	1180767	10.0	12.0	
89 4-Nitrophenol	109	8.978	8.973	0.005	90	293846	20.0	21.2	
91 2,4-Dinitrotoluene	165	9.054	9.049	0.005	95	283834	10.0	9.91	
92 Dibenzofuran	168	9.092	9.092	0.000	96	1452378	10.0	11.3	
95 2,3,4,6-Tetrachlorophenol	232	9.187	9.187	0.000	71	315132	10.0	9.84	
97 Diethyl phthalate	149	9.235	9.235	0.000	97	1194505	10.0	11.6	
98 Hexadecane	57	9.239	9.235	0.004	89	597675	10.0	10.6	
100 4-Chlorophenyl phenyl ether	204	9.358	9.353	0.005	88	595255	10.0	9.97	
102 Fluorene	166	9.382	9.377	0.005	93	1248083	10.0	10.3	
103 4-Nitroaniline	138	9.377	9.377	0.000	81	325470	10.0	9.89	
104 4,6-Dinitro-2-methylphenol	198	9.406	9.401	0.005	84	409149	20.0	21.9	
105 Diphenylamine	169	9.453	9.453	0.000	93	761974	8.50	9.28	
106 N-Nitrosodiphenylamine	169	9.453	9.453	0.000	63	761974	10.0	9.93	
107 1,2-Diphenylhydrazine	77	9.491	9.491	0.000	98	929551	10.0	10.6	
114 4-Bromophenyl phenyl ether	248	9.772	9.767	0.005	60	390323	10.0	9.77	
117 Hexachlorobenzene	284	9.858	9.858	0.000	96	540592	10.0	10.1	
123 n-Octadecane	43	10.005	10.005	0.000	80	460100	10.0	8.81	
120 Pentachlorophenol	266	10.010	10.005	0.005	84	738662	20.0	21.1	
126 Phenanthrene	178	10.195	10.195	0.000	97	1624691	10.0	10.0	
127 Anthracene	178	10.238	10.238	0.000	98	1657387	10.0	9.88	
128 Carbazole	167	10.357	10.357	0.000	96	1313528	10.0	10.9	
130 Di-n-butyl phthalate	149	10.614	10.614	0.000	99	1711852	10.0	11.2	
135 Fluoranthene	202	11.356	11.351	0.005	98	1575725	10.0	9.86	
136 Benzidine	184	11.460	11.460	0.000	97	659275	10.0	11.5	
137 Pyrene	202	11.631	11.627	0.004	95	1584009	10.0	11.1	
145 Butyl benzyl phthalate	149	12.421	12.421	0.000	94	684576	10.0	10.7	
147 3,3'-Dichlorobenzidine	252	13.377	13.372	0.005	99	542542	10.0	11.1	
150 Bis(2-ethylhexyl) phthalat	149	13.443	13.443	0.000	94	1079685	10.0	11.0	
149 Benzo[a]anthracene	228	13.453	13.453	0.000	99	1553302	10.0	11.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
151 Chrysene	228	13.529	13.524	0.005	97	1294298	10.0	11.0	
154 Di-n-octyl phthalate	149	14.913	14.908	0.005	74	1419087	10.0	10.7	
156 Benzo[b]fluoranthene	252	15.964	15.949	0.015	94	1188395	10.0	11.3	
157 Benzo[k]fluoranthene	252	16.040	16.035	0.005	99	1276973	10.0	11.7	
158 Benzo[a]pyrene	252	16.958	16.953	0.005	96	1160150	10.0	11.4	
162 Indeno[1,2,3-cd]pyrene	276	20.087	20.082	0.005	98	1487438	10.0	9.83	
163 Dibenz(a,h)anthracene	278	20.153	20.144	0.009	93	1280477	10.0	9.78	
164 Benzo[g,h,i]perylene	276	20.743	20.734	0.009	96	1196445	10.0	10.9	

Reagents:

SMIs1_5uL3ICV_00005

Amount Added: 1.00

Units: mL

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS12\20180815-54379.b\L11CV.D

Injection Date: 15-Aug-2018 22:53:30

Instrument ID: CMS12

Operator ID: DA

Lims ID: icv

Worklist Smp#: 13

Client ID:

Injection Vol: 5.0 ul

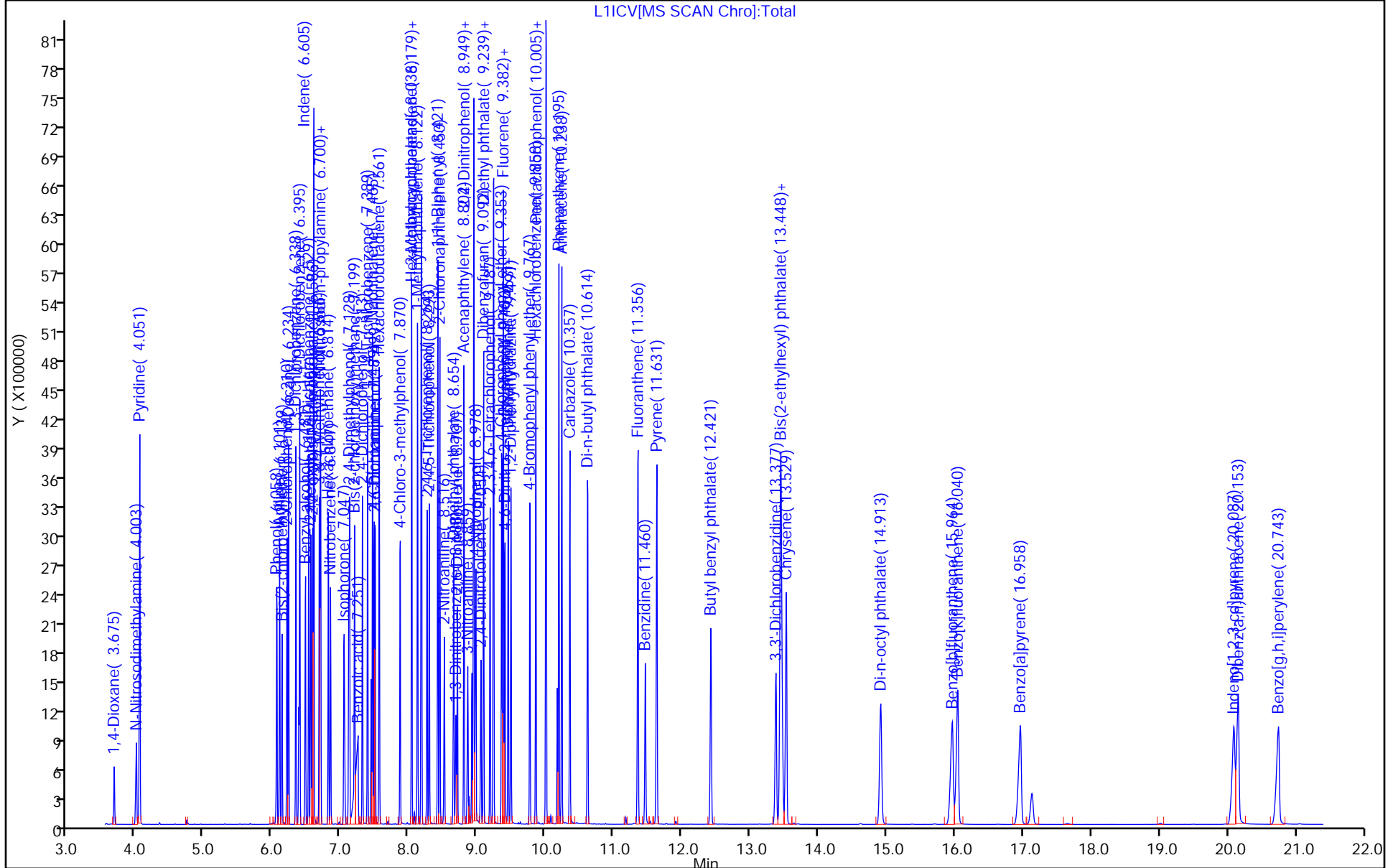
Dil. Factor: 1.0000

ALS Bottle#: 13

Method: 12-LV18270

Limit Group: MSBNA_8270D_ICAL

Column: ZB5MS (0.25 mm)



FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Chicago Job No.: 500-150867-2
 SDG No.: _____
 Lab Sample ID: CCVIS 500-448368/2 Calibration Date: 09/05/2018 08:44
 Instrument ID: CMS12 Calib Start Date: 08/15/2018 17:27
 GC Column: ZB5MS ID: 0.25 (mm) Calib End Date: 08/15/2018 22:24
 Lab File ID: 12C0905.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	0.9447	0.9628	0.7000	8.15	8.00	1.9	20.0
2-Methylnaphthalene	Ave	0.6543	0.6673	0.4000	8.16	8.00	2.0	20.0
1-Methylnaphthalene	Ave	0.6251	0.6334	0.0100	8.11	8.00	1.3	20.0
Acenaphthylene	Ave	1.707	1.838	0.9000	8.62	8.00	7.7	20.0
Acenaphthene	Ave	1.312	1.363	0.9000	8.31	8.00	3.9	20.0
Fluorene	Lin1		1.447	0.9000	7.19	8.00	-10.1	20.0
Phenanthrene	Qua2		1.132	0.7000	7.54	8.00	-5.7	20.0
Anthracene	Qua2		1.187	0.7000	7.61	8.00	-4.9	20.0
Fluoranthene	Qua2		1.205	0.6000	8.03	8.00	0.3	20.0
Pyrene	Ave	1.211	1.178	0.6000	7.79	8.00	-2.7	20.0
Benzo[a]anthracene	Ave	1.196	1.194	0.8000	7.99	8.00	-0.2	20.0
Chrysene	Ave	0.9948	1.049	0.7000	8.43	8.00	5.4	20.0
Benzo[b]fluoranthene	Ave	1.002	1.093	0.7000	8.73	8.00	9.2	20.0
Benzo[k]fluoranthene	Ave	1.043	1.090	0.7000	8.36	8.00	4.5	20.0
Benzo[a]pyrene	Ave	0.9685	1.037	0.7000	8.57	8.00	7.1	20.0
Indeno[1,2,3-cd]pyrene	Qua2		1.414	0.5000	8.22	8.00	2.7	20.0
Dibenz(a,h)anthracene	Qua2		1.207	0.4000	8.20	8.00	2.5	20.0
Benzo[g,h,i]perylene	Ave	1.049	1.103	0.5000	8.41	8.00	5.2	20.0
2-Fluorophenol (Surr)	Qua2		1.010	0.0100	8.95	8.00	11.9	20.0
Phenol-d5 (Surr)	Lin1		1.257	0.0100	7.71	8.00	-3.6	20.0
Nitrobenzene-d5 (Surr)	Ave	0.2691	0.2435	0.0100	7.24	8.00	-9.5	20.0
2-Fluorobiphenyl (Surr)	Lin1		1.379	0.0100	7.28	8.00	-9.0	20.0
2,4,6-Tribromophenol (Surr)	Qua2		0.3553	0.0100	7.55	8.00	-5.6	20.0
Terphenyl-d14 (Surr)	Ave	0.8562	0.8790	0.0100	8.21	8.00	2.7	20.0

TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS12\20180905-54832.b\12C0905.D
 Lims ID: ccvis
 Client ID:
 Sample Type: CCVIS
 Inject. Date: 05-Sep-2018 08:44:30 ALS Bottle#: 2 Worklist Smp#: 2
 Injection Vol: 5.0 ul Dil. Factor: 1.0000
 Sample Info: CCVIS
 Misc. Info.: 500-0054832-002
 Operator ID: AD Instrument ID: CMS12
 Sublist: chrom-12-LVI8270*sub102
 Method: \\ChromNA\Chicago\ChromData\CMS12\20180905-54832.b\12-LVI8270.m
 Limit Group: MSBNA_8270D_ICAL
 Method Label: TestAmerica Chicago GC/MS SVOA
 Last Update: 05-Sep-2018 23:16:44 Calib Date: 15-Aug-2018 22:24:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Chicago\ChromData\CMS12\20180815-54379.b\L1STD70.D
 Column 1 : ZB5MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK023

First Level Reviewer: diaza

Date: 05-Sep-2018 10:45:15

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.259	6.259	0.000	94	144532	3.20	3.20	
* 2 Naphthalene-d8	136	7.315	7.315	0.000	99	563129	3.20	3.20	
* 3 Acenaphthene-d10	164	8.784	8.784	0.000	96	263819	3.20	3.20	
* 4 Phenanthrene-d10	188	10.035	10.035	0.000	97	480815	3.20	3.20	
* 5 Chrysene-d12	240	13.221	13.221	0.000	99	510959	3.20	3.20	
* 6 Perylene-d12	264	16.702	16.702	0.000	99	507568	3.20	3.20	
\$ 7 2-Fluorophenol	112	5.213	5.213	0.000	89	364829	8.00	8.95	
\$ 8 Phenol-d5	99	5.964	5.964	0.000	98	454095	8.00	7.71	
\$ 9 Nitrobenzene-d5	82	6.711	6.711	0.000	90	342858	8.00	7.24	
\$ 10 2-Fluorobiphenyl	172	8.199	8.199	0.000	99	909268	8.00	7.28	
\$ 11 2,4,6-Tribromophenol	330	9.450	9.450	0.000	70	234328	8.00	7.55	
\$ 12 Terphenyl-d14	244	11.581	11.581	0.000	98	1122836	8.00	8.21	
13 1,4-Dioxane	88	3.620	3.620	0.000	93	140973	8.00	9.47	
14 N-Nitrosodimethylamine	42	3.943	3.943	0.000	76	296390	8.00	7.00	
15 Pyridine	79	3.981	3.981	0.000	90	837108	16.0	16.0	
25 Phenol	94	5.974	5.974	0.000	98	565957	8.00	9.34	
26 Aniline	93	5.988	5.988	0.000	97	621717	8.00	8.29	
27 Bis(2-chloroethyl)ether	93	6.021	6.021	0.000	98	373184	8.00	7.37	
29 2-Chlorophenol	128	6.102	6.102	0.000	94	505194	8.00	8.26	
30 n-Decane	43	6.112	6.112	0.000	94	570818	8.00	7.38	
31 1,3-Dichlorobenzene	146	6.221	6.221	0.000	98	563063	8.00	8.01	
32 1,4-Dichlorobenzene	146	6.273	6.273	0.000	97	578705	8.00	8.00	
33 Benzyl alcohol	108	6.368	6.368	0.000	93	245386	8.00	6.84	
34 1,2-Dichlorobenzene	146	6.406	6.406	0.000	99	540138	8.00	7.82	
36 2-Methylphenol	107	6.459	6.459	0.000	94	358904	8.00	8.70	
35 2,2'-oxybis[1-chloropropan	45	6.464	6.464	0.000	92	776659	8.00	7.08	
37 Indene	116	6.478	6.478	0.000	87	1248050	16.0	14.3	
42 3 & 4 Methylphenol	108	6.582	6.582	0.000	97	416162	8.00	8.01	
41 N-Nitrosodi-n-propylamine	70	6.578	6.578	0.000	84	243275	8.00	6.94	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
40 Acetophenone	105	6.582	6.582	0.000	95	570591	8.00	7.37	
44 Hexachloroethane	117	6.687	6.687	0.000	95	227699	8.00	7.86	
45 Nitrobenzene	77	6.730	6.730	0.000	89	377505	8.00	8.69	
47 Isophorone	82	6.925	6.925	0.000	98	649270	8.00	8.33	
48 2-Nitrophenol	139	6.991	6.991	0.000	89	254224	8.00	8.53	
49 2,4-Dimethylphenol	122	7.015	7.015	0.000	92	409841	8.00	8.04	
51 Bis(2-chloroethoxy)methane	93	7.072	7.072	0.000	99	471184	8.00	8.08	
52 Benzoic acid	122	7.158	7.158	0.000	92	409996	16.0	13.2	
54 2,4-Dichlorophenol	162	7.201	7.201	0.000	97	410649	8.00	8.31	
55 1,2,4-Trichlorobenzene	180	7.263	7.263	0.000	94	472374	8.00	7.17	
56 Naphthalene	128	7.334	7.334	0.000	99	1355418	8.00	8.15	
57 4-Chloroaniline	127	7.367	7.367	0.000	98	595399	8.00	8.14	
58 2,6-Dichlorophenol	162	7.381	7.381	0.000	96	417865	8.00	8.26	
60 Hexachlorobutadiene	225	7.429	7.429	0.000	95	269287	8.00	6.93	
65 4-Chloro-3-methylphenol	107	7.762	7.762	0.000	92	338234	8.00	8.33	
67 2-Methylnaphthalene	142	7.905	7.905	0.000	95	939482	8.00	8.16	
68 1-Methylnaphthalene	142	7.990	7.990	0.000	95	891738	8.00	8.11	
69 Hexachlorocyclopentadiene	237	8.042	8.042	0.000	95	177760	8.00	4.24	
70 1,2,4,5-Tetrachlorobenzene	216	8.052	8.052	0.000	96	468301	8.00	6.74	
72 2,4,6-Trichlorophenol	196	8.142	8.142	0.000	90	275286	8.00	7.74	
73 2,4,5-Trichlorophenol	196	8.190	8.190	0.000	96	297320	8.00	7.96	
75 1,1'-Biphenyl	154	8.290	8.290	0.000	94	1095842	8.00	7.91	
76 2-Chloronaphthalene	162	8.318	8.318	0.000	96	863678	8.00	8.08	
78 2-Nitroaniline	65	8.394	8.394	0.000	91	195185	8.00	8.50	
82 Dimethyl phthalate	163	8.523	8.523	0.000	97	869301	8.00	8.30	
83 1,3-Dinitrobenzene	168	8.570	8.570	0.000	89	136746	8.00	9.72	
84 2,6-Dinitrotoluene	165	8.585	8.585	0.000	94	207068	8.00	8.51	
85 Acenaphthylene	152	8.670	8.670	0.000	98	1212501	8.00	8.62	
86 3-Nitroaniline	138	8.741	8.741	0.000	93	234733	8.00	8.85	
87 Acenaphthene	153	8.813	8.813	0.000	91	899133	8.00	8.31	
88 2,4-Dinitrophenol	184	8.832	8.832	0.000	87	243280	16.0	13.5	
89 4-Nitrophenol	109	8.898	8.898	0.000	86	216274	16.0	14.2	
91 2,4-Dinitrotoluene	165	8.932	8.932	0.000	95	267632	8.00	8.51	
92 Dibenzofuran	168	8.955	8.955	0.000	96	1190441	8.00	8.44	
95 2,3,4,6-Tetrachlorophenol	232	9.065	9.065	0.000	70	242892	8.00	7.57	
98 Hexadecane	57	9.103	9.103	0.000	91	461145	8.00	7.44	
97 Diethyl phthalate	149	9.108	9.108	0.000	97	936792	8.00	8.24	
100 4-Chlorophenyl phenyl ethe	204	9.222	9.222	0.000	89	460694	8.00	7.19	
102 Fluorene	166	9.246	9.246	0.000	93	954235	8.00	7.19	
103 4-Nitroaniline	138	9.260	9.260	0.000	84	257075	8.00	7.26	
104 4,6-Dinitro-2-methylphenol	198	9.288	9.288	0.000	87	308445	16.0	15.8	
105 Diphenylamine	169	9.322	9.322	0.000	93	657263	6.80	6.61	
106 N-Nitrosodiphenylamine	169	9.322	9.322	0.000	66	657263	8.00	7.66	
107 1,2-Diphenylhydrazine	77	9.360	9.360	0.000	100	751225	8.00	7.79	
114 4-Bromophenyl phenyl ether	248	9.631	9.631	0.000	60	331598	8.00	7.57	
117 Hexachlorobenzene	284	9.721	9.721	0.000	96	429982	8.00	7.42	
123 n-Octadecane	43	9.869	9.869	0.000	97	447070	8.00	7.07	
120 Pentachlorophenol	266	9.883	9.883	0.000	86	448075	16.0	11.1	
126 Phenanthrene	178	10.059	10.059	0.000	97	1360485	8.00	7.54	
127 Anthracene	178	10.102	10.102	0.000	98	1426343	8.00	7.61	
128 Carbazole	167	10.225	10.225	0.000	96	1233603	8.00	8.46	
130 Di-n-butyl phthalate	149	10.468	10.468	0.000	99	1560636	8.00	8.42	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
135 Fluoranthene	202	11.181	11.181	0.000	98	1447894	8.00	8.03	
136 Benzidine	184	11.290	11.290	0.000	97	683202	8.00	8.86	
137 Pyrene	202	11.447	11.447	0.000	95	1505344	8.00	7.79	
145 Butyl benzyl phthalate	149	12.208	12.208	0.000	94	708977	8.00	8.21	
147 3,3'-Dichlorobenzidine	252	13.131	13.131	0.000	99	571154	8.00	8.69	
150 Bis(2-ethylhexyl) phthalat	149	13.174	13.174	0.000	93	1077134	8.00	8.12	
149 Benzo[a]anthracene	228	13.202	13.202	0.000	99	1525193	8.00	7.99	
151 Chrysene	228	13.274	13.274	0.000	97	1339603	8.00	8.43	
154 Di-n-octyl phthalate	149	14.572	14.572	0.000	73	1658045	8.00	10.3	
156 Benzo[b]fluoranthene	252	15.590	15.590	0.000	97	1387446	8.00	8.73	
157 Benzo[k]fluoranthene	252	15.675	15.675	0.000	99	1383000	8.00	8.36	
158 Benzo[a]pyrene	252	16.541	16.541	0.000	96	1316446	8.00	8.57	
162 Indeno[1,2,3-cd]pyrene	276	19.755	19.755	0.000	97	1794155	8.00	8.22	
163 Dibenz(a,h)anthracene	278	19.803	19.803	0.000	94	1531409	8.00	8.20	
164 Benzo[g,h,i]perylene	276	20.378	20.378	0.000	95	1399365	8.00	8.41	

Reagents:

SMIst1_5uLL8x_00153

Amount Added: 1.00

Units: mL

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS12\20180905-54832.b\12C0905.D

Injection Date: 05-Sep-2018 08:44:30

Instrument ID: CMS12

Operator ID: AD

Lims ID: ccvis

Worklist Smp#: 2

Client ID:

Injection Vol: 5.0 ul

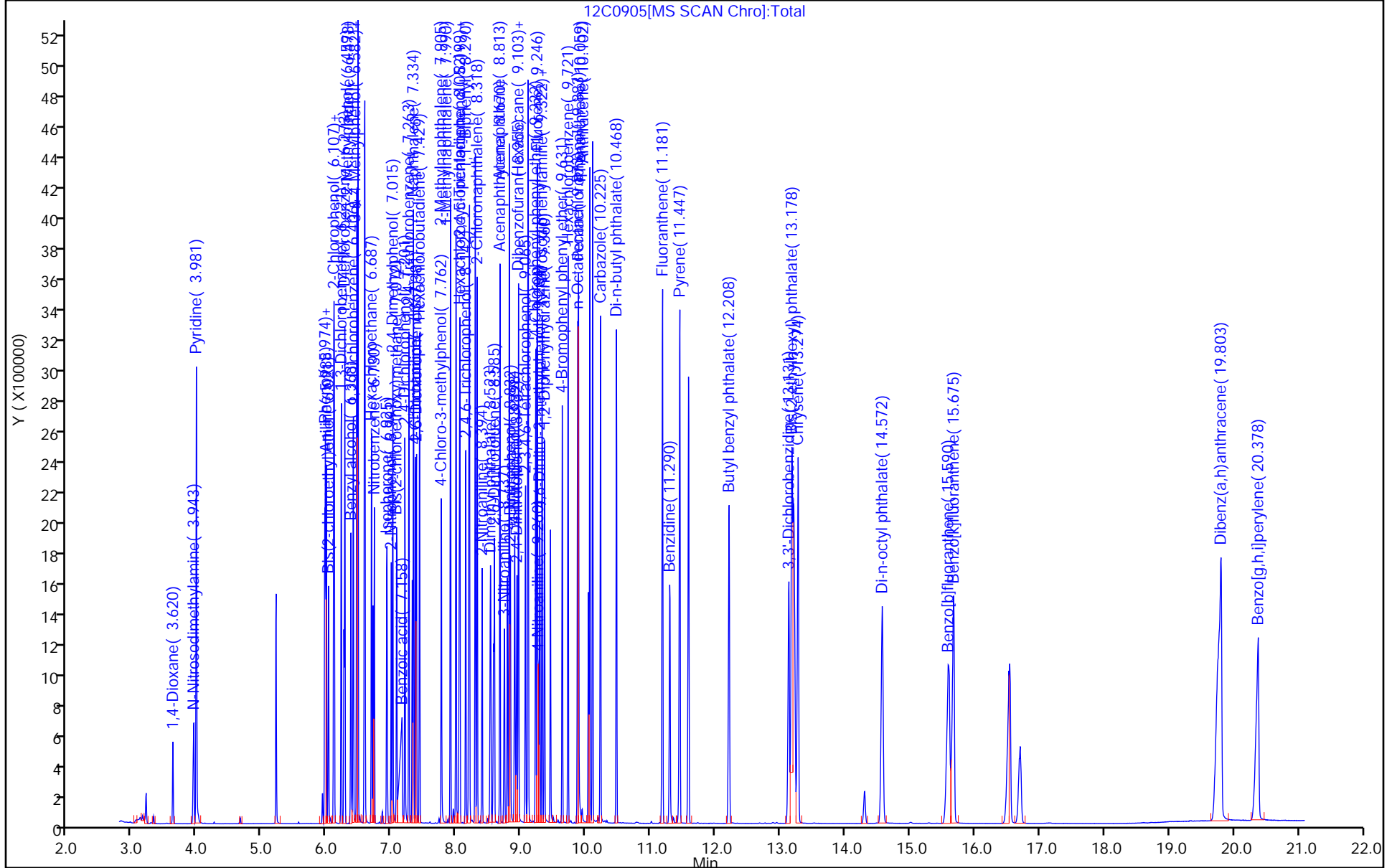
Dil. Factor: 1.0000

ALS Bottle#: 2

Method: 12-LV18270

Limit Group: MSBNA_8270D_ICAL

Column: ZB5MS (0.25 mm)



TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS12\20180815-54379.b\12D0815D.D
 Lims ID: dftpp
 Client ID:
 Sample Type: DFTPP
 Inject. Date: 15-Aug-2018 16:52:30 ALS Bottle#: 1 Worklist Smp#: 1
 Injection Vol: 5.0 ul Dil. Factor: 1.0000
 Sample Info: DFTPP
 Misc. Info.: 500-0054369-007
 Operator ID: DA Instrument ID: CMS12
 Method: \\ChromNA\Chicago\ChromData\CMS12\20180815-54379.b\12-LVI8270.m
 Limit Group: MSBNA_8270D_ICAL
 Method Label: TestAmerica Chicago GC/MS SVOA
 Last Update: 16-Aug-2018 08:18:02 Calib Date: 15-Aug-2018 22:24:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Chicago\ChromData\CMS12\20180815-54379.b\L1STD70.D
 Column 1 : ZB5MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK005

First Level Reviewer: akcakald Date: 15-Aug-2018 17:26:44

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
120 Pentachlorophenol	266	10.005	10.005	0.000	88	270042	NR	NR	
136 Benzidine	184	11.460	11.460	0.000	97	1009585	NR	NR	
165 DFTPP									
166 4,4'-DDE	246	11.693	11.693	0.000	88	731		NR	
167 4,4'-DDD	235	12.145	12.145	0.000	90	1572		NR	
168 4,4'-DDT	235	12.611	12.611	0.000	97	543895	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

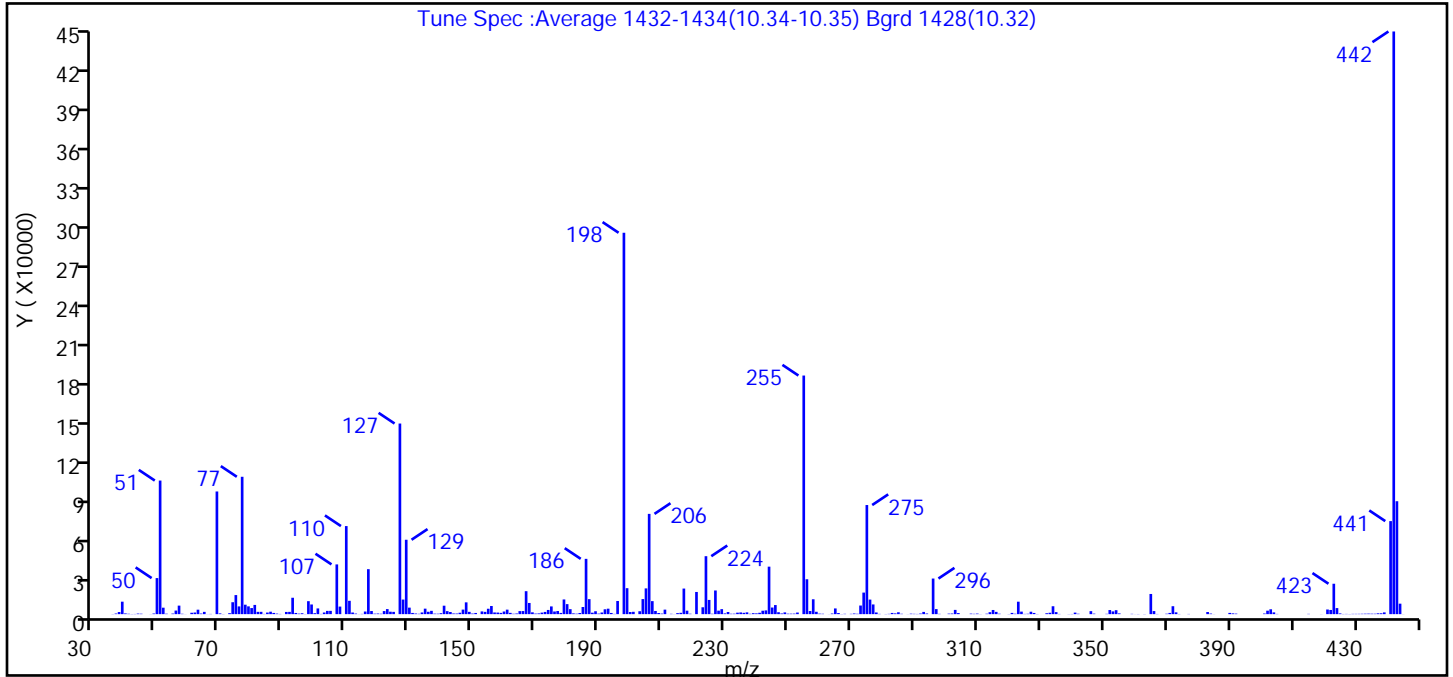
Reagents:

HIVOL_DFTPPWK_00119 Amount Added: 1.00 Units: mL

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS12\20180815-54379.b\12D0815D.D
 Injection Date: 15-Aug-2018 16:52:30 Instrument ID: CMS12
 Lims ID: dftpp
 Client ID:
 Operator ID: DA ALS Bottle#: 1 Worklist Smp#: 1
 Injection Vol: 5.0 ul Dil. Factor: 1.0000
 Method: 12-LVI8270 Limit Group: MSBNA_8270D_ICAL
 Tune Method: DFTPP Method 8270D, BP 198

165 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	base peak, or >90% of 442	100.0 (65.5)
51	10-80% of the base peak	35.0
68	<2% of mass 69	0.0 (0.0)
69	Present	32.2
70	<2% of mass 69	0.2 (0.6)
127	10-80% of the base peak	50.0
197	<2% of mass 198	0.0
199	5-9% of mass 198	6.8
275	10-60% of the base peak	28.6
365	>1% of mass 198	5.3
441	present but <24% of mass 442	24.4 (16.0)
442	base peak, or >50% of 198	152.8
443	15-24% of mass 442	29.6 (19.4)

Data File: \\ChromNA\Chicago\ChromData\CMS12\20180815-54379.b\12D0815D.D\12-LVI8270.rslt\spectra.d
 Injection Date: 15-Aug-2018 16:52:30
 Spectrum: Tune Spec :Average 1432-1434(10.34-10.35) Bgrd 1428(10.32)
 Base Peak: 442.00
 Minimum % Base Peak: 0
 Number of Points: 330

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	102	129.00	56248	216.00	1008	313.00	328
37.00	469	130.00	4919	217.00	19344	314.00	1475
38.00	1595	131.00	916	218.00	2619	315.00	3146
39.00	9424	132.00	483	219.00	305	316.00	1717
40.00	548	133.00	253	221.00	16768	317.00	304
41.00	279	134.00	1266	223.00	5193	320.00	113
42.00	114	135.00	4152	224.00	43824	321.00	939
43.00	141	136.00	1786	225.00	10742	322.00	311
44.00	426	137.00	2494	226.00	291	323.00	9413
45.00	321	138.00	375	227.00	17888	324.00	1908
48.00	55	139.00	330	228.00	2636	325.00	183
49.00	471	140.00	726	229.00	3780	326.00	282
50.00	27264	141.00	6387	230.00	566	327.00	1828
51.00	101008	142.00	2274	231.00	1617	328.00	899
52.00	4881	143.00	1610	232.00	304	329.00	123
53.00	327	144.00	504	233.00	341	332.00	684
55.00	436	145.00	453	234.00	1123	333.00	1051
56.00	2709	146.00	1065	235.00	1290	334.00	5970
57.00	6446	147.00	3433	236.00	997	335.00	1532
58.00	283	148.00	8918	237.00	1353	336.00	154
59.00	50	149.00	1733	238.00	270	339.00	93
61.00	1051	150.00	439	239.00	720	340.00	131
62.00	1225	151.00	890	240.00	590	341.00	1160
63.00	3366	153.00	2060	241.00	1032	342.00	297
64.00	443	154.00	1727	242.00	2586	346.00	2258
65.00	1723	155.00	4082	243.00	2839	347.00	382
66.00	56	156.00	6148	244.00	35904	351.00	237
67.00	163	157.00	1279	245.00	5004	352.00	3101
69.00	92752	158.00	1193	246.00	6862	353.00	2082
70.00	561	159.00	960	247.00	1449	354.00	2987
71.00	104	160.00	1990	248.00	510	355.00	553
73.00	740	161.00	3394	249.00	1325	359.00	225
74.00	9012	162.00	970	250.00	348	360.00	53

Data File: \\ChromNA\Chicago\ChromData\CMS12\20180815-54379.b\12D0815D.D\12-LVI8270.rsl\spectra.d

Injection Date: 15-Aug-2018 16:52:30

Spectrum: Tune Spec :Average 1432-1434(10.34-10.35) Bgrd 1428(10.32)

Base Peak: 442.00

Minimum % Base Peak: 0

Number of Points: 330

m/z	Y	m/z	Y	m/z	Y	m/z	Y
75.00	14415	163.00	288	251.00	363	361.00	118
76.00	5850	164.00	488	252.00	404	363.00	105
77.00	103864	165.00	2293	253.00	1218	365.00	15252
78.00	7140	166.00	2335	255.00	180416	366.00	2329
79.00	5885	167.00	17360	256.00	26384	367.00	144
80.00	4592	168.00	8455	257.00	2365	370.00	311
81.00	6971	169.00	1371	258.00	11250	371.00	921
82.00	1734	170.00	425	259.00	1789	372.00	5992
83.00	1751	171.00	558	260.00	380	373.00	1361
84.00	167	172.00	1161	261.00	289	374.00	128
85.00	1214	173.00	1676	263.00	53	377.00	151
86.00	1846	174.00	3166	264.00	466	383.00	1616
87.00	915	175.00	5841	265.00	4315	384.00	440
88.00	409	176.00	2001	266.00	842	385.00	62
89.00	155	177.00	2359	267.00	104	390.00	934
91.00	1666	178.00	928	268.00	246	391.00	573
92.00	1724	179.00	11108	270.00	232	392.00	398
93.00	12392	180.00	7567	271.00	499	401.00	481
94.00	897	181.00	3762	272.00	285	402.00	2613
95.00	380	182.00	581	273.00	6510	403.00	3676
96.00	672	183.00	339	274.00	16293	404.00	1330
97.00	91	184.00	869	275.00	82504	405.00	170
98.00	9802	185.00	5403	276.00	11000	415.00	204
99.00	7312	186.00	41808	277.00	7334	419.00	56
100.00	721	187.00	11330	278.00	1264	421.00	3511
101.00	4324	188.00	1098	279.00	194	422.00	3165
102.00	159	189.00	2188	281.00	117	423.00	22992
103.00	1235	190.00	385	282.00	216	424.00	4576
104.00	2452	191.00	1235	283.00	913	425.00	553
105.00	2477	192.00	3675	284.00	565	426.00	127
107.00	37608	193.00	4132	285.00	1420	427.00	175
108.00	5715	194.00	903	286.00	272	428.00	114
110.00	66592	195.00	187	288.00	54	429.00	204
111.00	10088	196.00	9930	289.00	351	430.00	219

Report Date: 16-Aug-2018 08:18:03

Chrom Revision: 2.3 19-Jul-2018 15:14:50

Data File: \\ChromNA\Chicago\ChromData\CMS12\20180815-54379.b\12D0815D.D\12-LVI8270.rsl\spectra.d

Injection Date: 15-Aug-2018 16:52:30

Spectrum: Tune Spec :Average 1432-1434(10.34-10.35) Bgrd 1428(10.32)

Base Peak: 442.00

Minimum % Base Peak: 0

Number of Points: 330

m/z	Y	m/z	Y	m/z	Y	m/z	Y
112.00	1229	198.00	288384	290.00	236	431.00	234
113.00	434	199.00	19632	291.00	159	432.00	287
114.00	55	200.00	1611	292.00	453	433.00	349
115.00	195	201.00	1773	293.00	1686	434.00	405
116.00	1985	203.00	2202	294.00	485	435.00	342
117.00	34008	204.00	11387	296.00	26920	436.00	319
118.00	2346	205.00	19472	297.00	3815	437.00	631
119.00	356	206.00	75816	298.00	212	438.00	654
120.00	465	207.00	9839	301.00	392	439.00	1316
121.00	299	208.00	2393	302.00	470	441.00	70344
122.00	2318	209.00	854	303.00	3215	442.00	440576
123.00	3824	210.00	407	304.00	815	443.00	85384
124.00	1842	211.00	3415	308.00	396	444.00	7920
125.00	1721	213.00	246	309.00	240	445.00	64
127.00	144128	214.00	61	310.00	416		
128.00	11025	215.00	776	311.00	71		

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS12\20180815-54379.b\12D0815D.D

Injection Date: 15-Aug-2018 16:52:30

Instrument ID: CMS12

Operator ID: DA

Lims ID: dftpp

Worklist Smp#: 1

Client ID:

Injection Vol: 5.0 ul

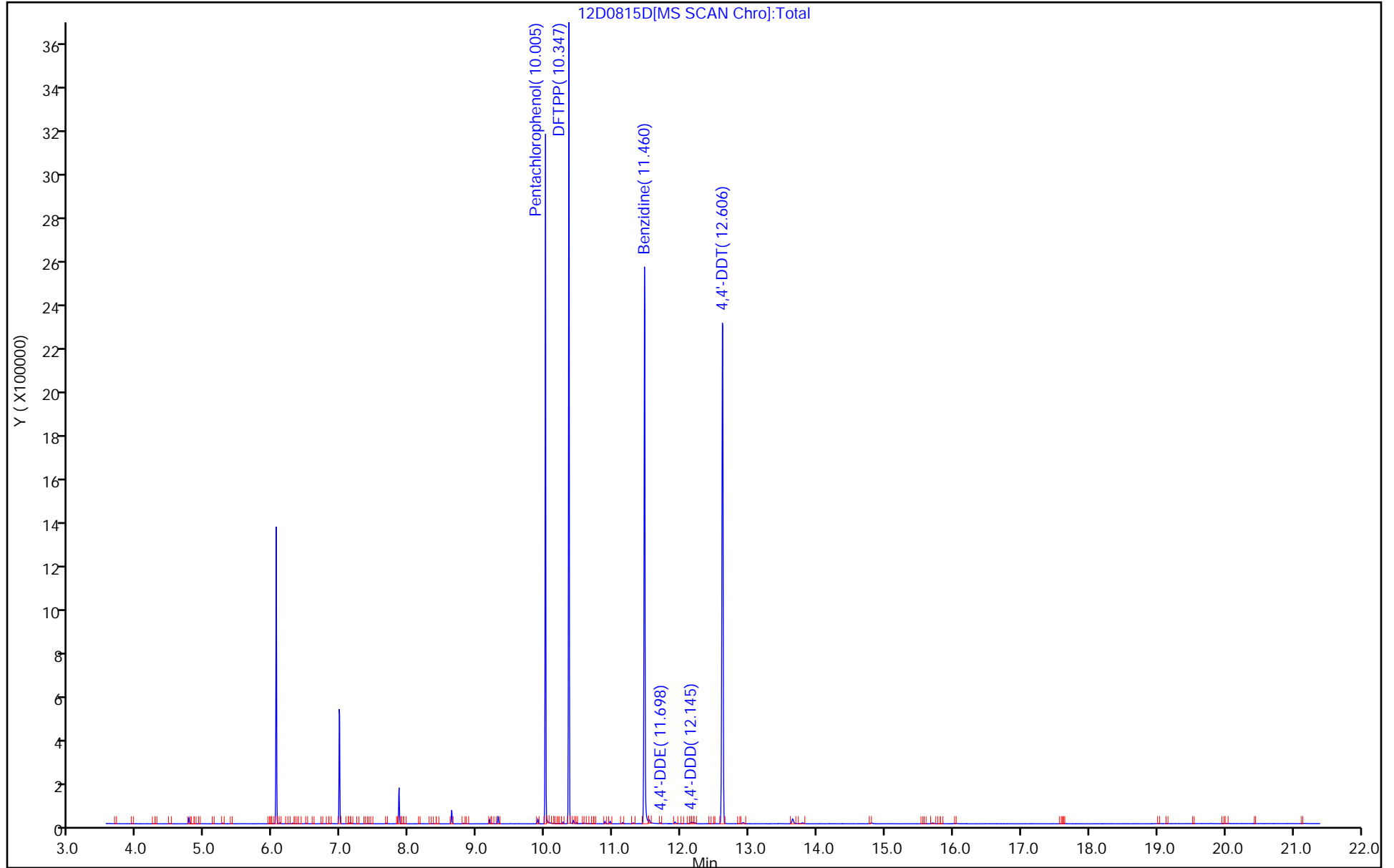
Dil. Factor: 1.0000

ALS Bottle#: 1

Method: 12-LVI8270

Limit Group: MSBNA_8270D_ICAL

Column: ZB5MS (0.25 mm)



TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS12\20180815-54379.b\12D0815D.D
Injection Date: 15-Aug-2018 16:52:30 Instrument ID: CMS12
Lims ID: dftpp
Client ID:
Operator ID: DA ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: 12-LVI8270 Limit Group: MSBNA_8270D_ICAL

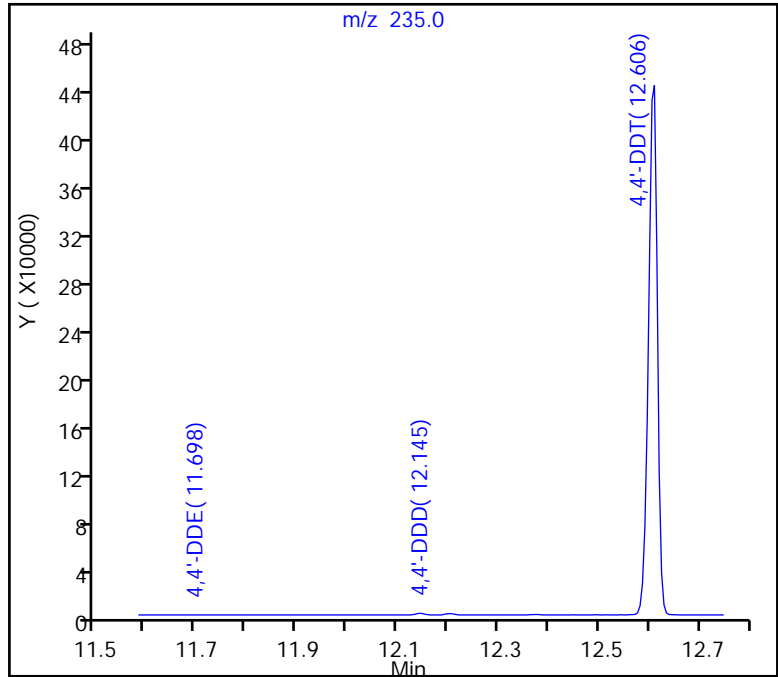
168 4,4'-DDT, Detector: MS SCAN

SW-846 Method

%Breakdown =
(Area Breakdown Cpnds/
Total Area Breakdown Cpnds) * 100

168 4,4'-DDT, Area = 543895
167 4,4'-DDD, Area = 1572
166 4,4'-DDE, Area = 731

%Breakdown: 0.42%, Max Limit: 20.00%
Passed



TestAmerica Chicago

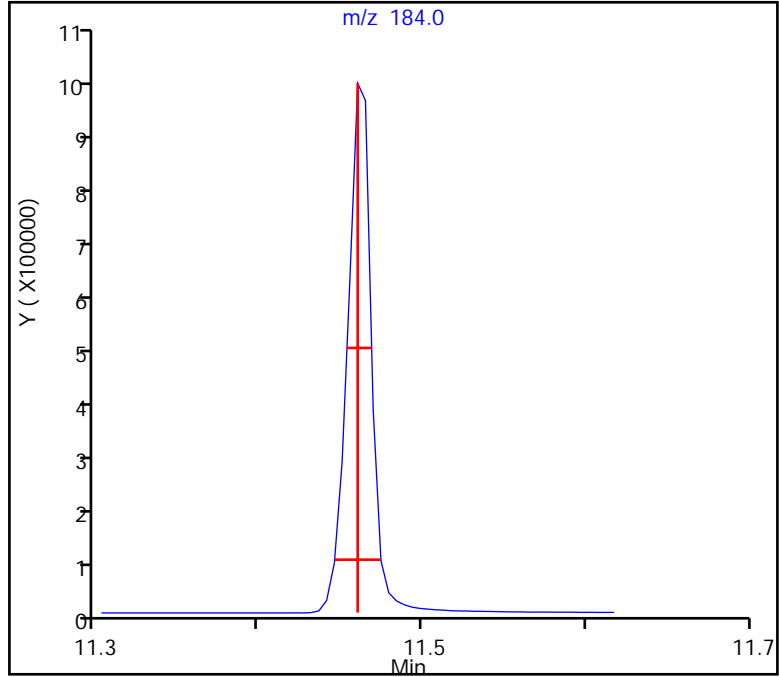
Data File: \\ChromNA\Chicago\ChromData\CMS12\20180815-54379.b\12D0815D.D
Injection Date: 15-Aug-2018 16:52:30 Instrument ID: CMS12
Lims ID: dftpp
Client ID:
Operator ID: DA ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: 12-LVI8270 Limit Group: MSBNA_8270D_ICAL

136 Benzidine, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.014 (min.)
Front Width = 0.014 (min.)

Tailing Factor = 1.0, Max. Tailing < 2.00
Passed



TestAmerica Chicago

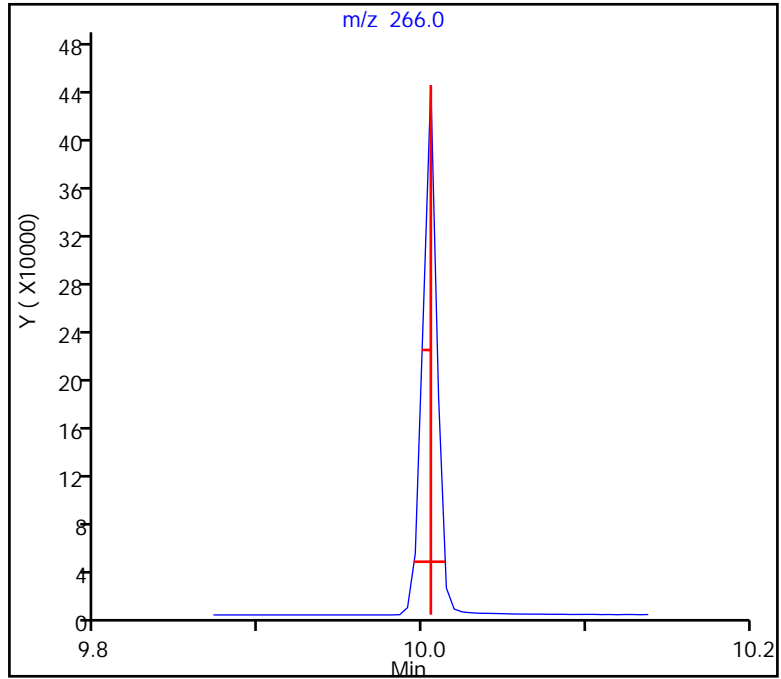
Data File: \\ChromNA\Chicago\ChromData\CMS12\20180815-54379.b\12D0815D.D
Injection Date: 15-Aug-2018 16:52:30 Instrument ID: CMS12
Lims ID: dftpp
Client ID:
Operator ID: DA ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: 12-LVI8270 Limit Group: MSBNA_8270D_ICAL

120 Pentachlorophenol, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.009 (min.)
Front Width = 0.010 (min.)

Tailing Factor = 0.9, Max. Tailing < 2.00
Passed



TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS12\20180905-54832.b\12D0905.D
 Lims ID: dftpp
 Client ID:
 Sample Type: DFTPP
 Inject. Date: 05-Sep-2018 08:15:30 ALS Bottle#: 1 Worklist Smp#: 1
 Injection Vol: 5.0 ul Dil. Factor: 1.0000
 Sample Info: DFTPP
 Misc. Info.: 500-0054832-001
 Operator ID: AD Instrument ID: CMS12
 Method: \\ChromNA\Chicago\ChromData\CMS12\20180905-54832.b\12-LVI8270.m
 Limit Group: MSBNA_8270D_ICAL
 Method Label: TestAmerica Chicago GC/MS SVOA
 Last Update: 05-Sep-2018 10:43:28 Calib Date: 15-Aug-2018 22:24:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Chicago\ChromData\CMS12\20180815-54379.b\L1STD70.D
 Column 1 : ZB5MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK022

First Level Reviewer: diaza Date: 05-Sep-2018 10:43:27

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
120 Pentachlorophenol	266	9.883	9.883	0.000	88	180035	NR	NR	
136 Benzidine	184	11.290	11.290	0.000	97	1053204	NR	NR	
165 DFTPP									
166 4,4'-DDE	246	11.504	11.504	0.000	88	975		NR	
167 4,4'-DDD	235	11.994	11.994	0.000	86	1701		NR	
168 4,4'-DDT	235	12.379	12.379	0.000	98	569763	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

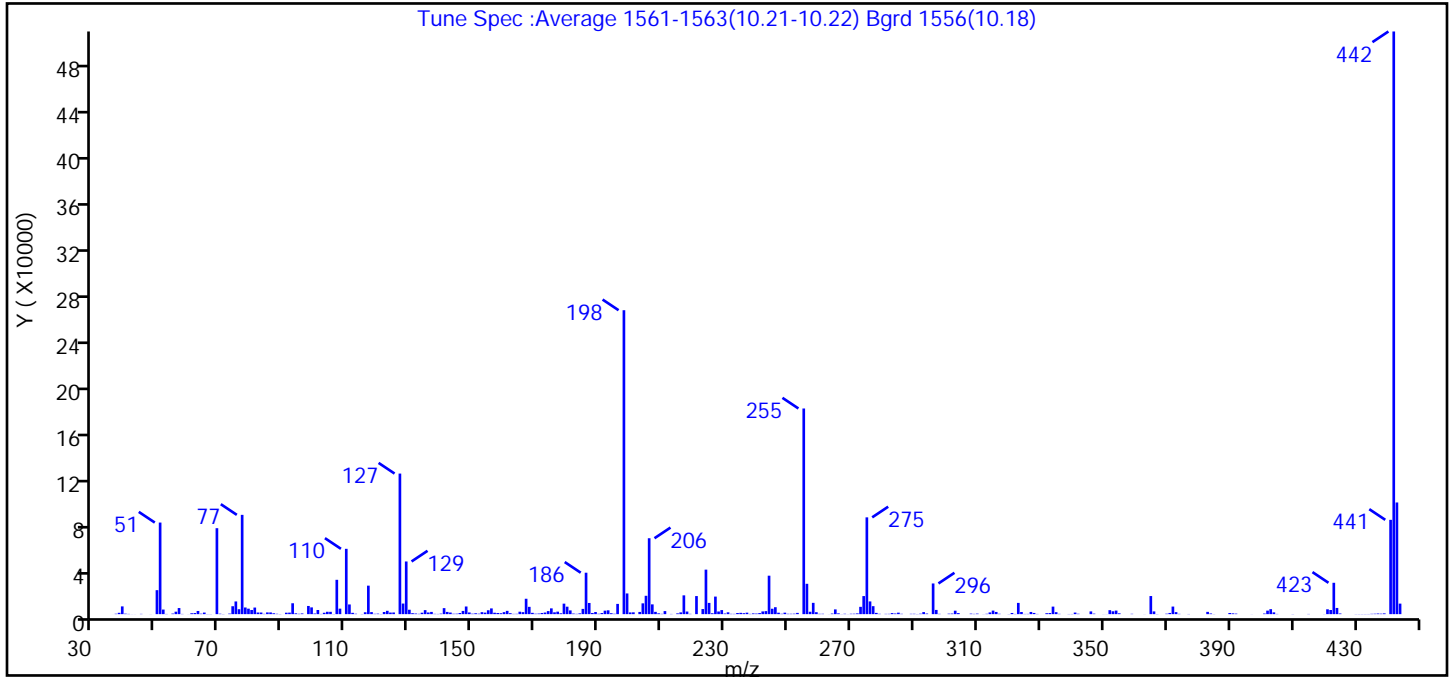
Reagents:

HIVOL_DFTPPWK_00119 Amount Added: 1.00 Units: mL

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS12\20180905-54832.b\12D0905.D
 Injection Date: 05-Sep-2018 08:15:30 Instrument ID: CMS12
 Lims ID: dftpp
 Client ID:
 Operator ID: AD ALS Bottle#: 1 Worklist Smp#: 1
 Injection Vol: 5.0 ul Dil. Factor: 1.0000
 Method: 12-LVI8270 Limit Group: MSBNA_8270D_ICAL
 Tune Method: DFTPP Method 8270D, BP 198

165 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	base peak, or >50% of 442	100.0 (52.2)
51	10-80% of the base peak	30.1
68	<2% of mass 69	0.0 (0.0)
69	Present	28.3
70	<2% of mass 69	0.1 (0.5)
127	10-80% of the base peak	46.3
197	<2% of mass 198	0.0
199	5-9% of mass 198	6.8
275	10-60% of the base peak	31.8
365	>1% of mass 198	6.0
441	present but <24% of mass 442	31.0 (16.2)
442	base peak, or >50% of 198	191.7
443	15-24% of mass 442	36.7 (19.2)

Data File: \\ChromNA\Chicago\ChromData\CMS12\20180905-54832.b\12D0905.D\12-LVI8270.rsl\spectra.d
Injection Date: 05-Sep-2018 08:15:30
Spectrum: Tune Spec :Average 1561-1563(10.21-10.22) Bgrd 1556(10.18)
Base Peak: 442.00
Minimum % Base Peak: 0
Number of Points: 323

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	18	130.00	3804	215.00	653	309.00	227
37.00	333	131.00	827	216.00	1523	310.00	453
38.00	1157	132.00	538	217.00	16240	312.00	70
39.00	6695	133.00	268	218.00	2245	313.00	303
40.00	413	134.00	1234	219.00	256	314.00	1480
41.00	210	135.00	3458	221.00	15623	315.00	3073
42.00	51	136.00	1433	223.00	4393	316.00	1896
43.00	47	137.00	1928	224.00	38464	317.00	307
45.00	228	138.00	263	225.00	9714	320.00	117
48.00	54	139.00	188	226.00	772	321.00	1006
50.00	20720	140.00	453	227.00	15172	322.00	173
51.00	79152	141.00	5188	228.00	2286	323.00	9716
52.00	3957	142.00	1927	229.00	3520	324.00	1843
53.00	172	143.00	1386	230.00	537	325.00	186
55.00	504	144.00	346	231.00	1586	326.00	214
56.00	2129	145.00	397	232.00	272	327.00	1883
57.00	5265	146.00	990	233.00	235	328.00	1032
58.00	188	147.00	2770	234.00	980	329.00	183
60.00	53	148.00	6612	235.00	1135	332.00	800
61.00	778	149.00	1447	236.00	836	333.00	968
62.00	947	150.00	398	237.00	1282	334.00	6511
63.00	2735	151.00	758	238.00	232	335.00	1699
64.00	389	152.00	384	239.00	648	336.00	248
65.00	1365	153.00	1707	240.00	505	339.00	142
66.00	106	154.00	1317	241.00	924	340.00	151
67.00	112	155.00	3357	242.00	2345	341.00	1362
69.00	74288	156.00	4964	243.00	2619	342.00	335
70.00	366	157.00	1214	244.00	33232	346.00	2365
71.00	128	158.00	1000	245.00	4667	347.00	442
73.00	470	159.00	789	246.00	5990	350.00	58
74.00	6838	160.00	1713	247.00	1246	351.00	57
75.00	10976	161.00	2834	248.00	322	352.00	3419
76.00	4255	162.00	831	249.00	1276	353.00	2483

Data File: \\ChromNA\Chicago\ChromData\CMS12\20180905-54832.b\12D0905.D\12-LVI8270.rsl\spectra.d

Injection Date: 05-Sep-2018 08:15:30

Spectrum: Tune Spec :Average 1561-1563(10.21-10.22) Bgrd 1556(10.18)

Base Peak: 442.00

Minimum % Base Peak: 0

Number of Points: 323

m/z	Y	m/z	Y	m/z	Y	m/z	Y
77.00	85808	163.00	228	250.00	308	354.00	3076
78.00	5743	164.00	282	251.00	329	355.00	717
79.00	4729	165.00	2107	252.00	402	359.00	287
80.00	3594	166.00	1703	253.00	1082	363.00	54
81.00	5693	167.00	13296	255.00	177728	365.00	15647
82.00	1414	168.00	6314	256.00	26224	366.00	2368
83.00	1406	169.00	1133	257.00	2063	367.00	128
84.00	252	170.00	381	258.00	9763	370.00	388
85.00	1496	171.00	513	259.00	1682	371.00	1027
86.00	1484	172.00	1009	260.00	278	372.00	6548
87.00	757	173.00	1383	261.00	317	373.00	1739
88.00	312	174.00	2625	263.00	50	374.00	241
89.00	125	175.00	4999	264.00	510	377.00	143
91.00	1237	176.00	1570	265.00	4101	383.00	1968
92.00	1317	177.00	2153	266.00	673	384.00	574
93.00	9408	178.00	745	267.00	83	385.00	98
94.00	711	179.00	9071	268.00	320	390.00	977
95.00	288	180.00	6443	269.00	62	391.00	672
96.00	609	181.00	3225	270.00	336	392.00	462
98.00	7071	182.00	511	271.00	375	397.00	55
99.00	5839	183.00	257	272.00	635	401.00	534
100.00	530	184.00	670	273.00	6312	402.00	3034
101.00	3582	185.00	4532	274.00	15616	403.00	4306
102.00	184	186.00	35808	275.00	83648	404.00	1537
103.00	1196	187.00	9664	276.00	10989	405.00	188
104.00	2051	188.00	1015	277.00	6889	410.00	115
105.00	2005	189.00	1836	278.00	1087	415.00	172
106.00	122	190.00	324	279.00	281	420.00	77
107.00	29672	191.00	961	281.00	243	421.00	4197
108.00	4748	192.00	3005	282.00	263	422.00	3578
110.00	56448	193.00	3306	283.00	917	423.00	27104
111.00	8373	194.00	796	284.00	547	424.00	5353
112.00	1144	195.00	328	285.00	1279	425.00	573
113.00	347	196.00	8856	286.00	288	430.00	104

Data File: \\ChromNA\Chicago\ChromData\CMS12\20180905-54832.b\12D0905.D\12-LVI8270.rsl\spectra.d

Injection Date: 05-Sep-2018 08:15:30

Spectrum: Tune Spec :Average 1561-1563(10.21-10.22) Bgrd 1556(10.18)

Base Peak: 442.00

Minimum % Base Peak: 0

Number of Points: 323

m/z	Y	m/z	Y	m/z	Y	m/z	Y
115.00	141	198.00	262656	289.00	277	431.00	108
116.00	1620	199.00	17888	290.00	306	432.00	120
117.00	24624	200.00	1488	291.00	137	433.00	127
118.00	1775	201.00	1579	292.00	400	434.00	137
119.00	293	203.00	1901	293.00	1778	435.00	281
120.00	435	204.00	9333	294.00	522	436.00	369
121.00	132	205.00	15862	296.00	26512	437.00	552
122.00	1836	206.00	65600	297.00	3643	438.00	400
123.00	2876	207.00	8450	298.00	246	439.00	655
124.00	1378	208.00	1978	301.00	410	441.00	81504
125.00	1438	209.00	698	302.00	503	442.00	503552
127.00	121488	210.00	266	303.00	2980	443.00	96512
128.00	9159	211.00	2640	304.00	903	444.00	9102
129.00	45520	213.00	177	308.00	447		

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS12\20180905-54832.b\12D0905.D

Injection Date: 05-Sep-2018 08:15:30

Instrument ID: CMS12

Operator ID: AD

Lims ID: dftpp

Worklist Smp#: 1

Client ID:

Injection Vol: 5.0 ul

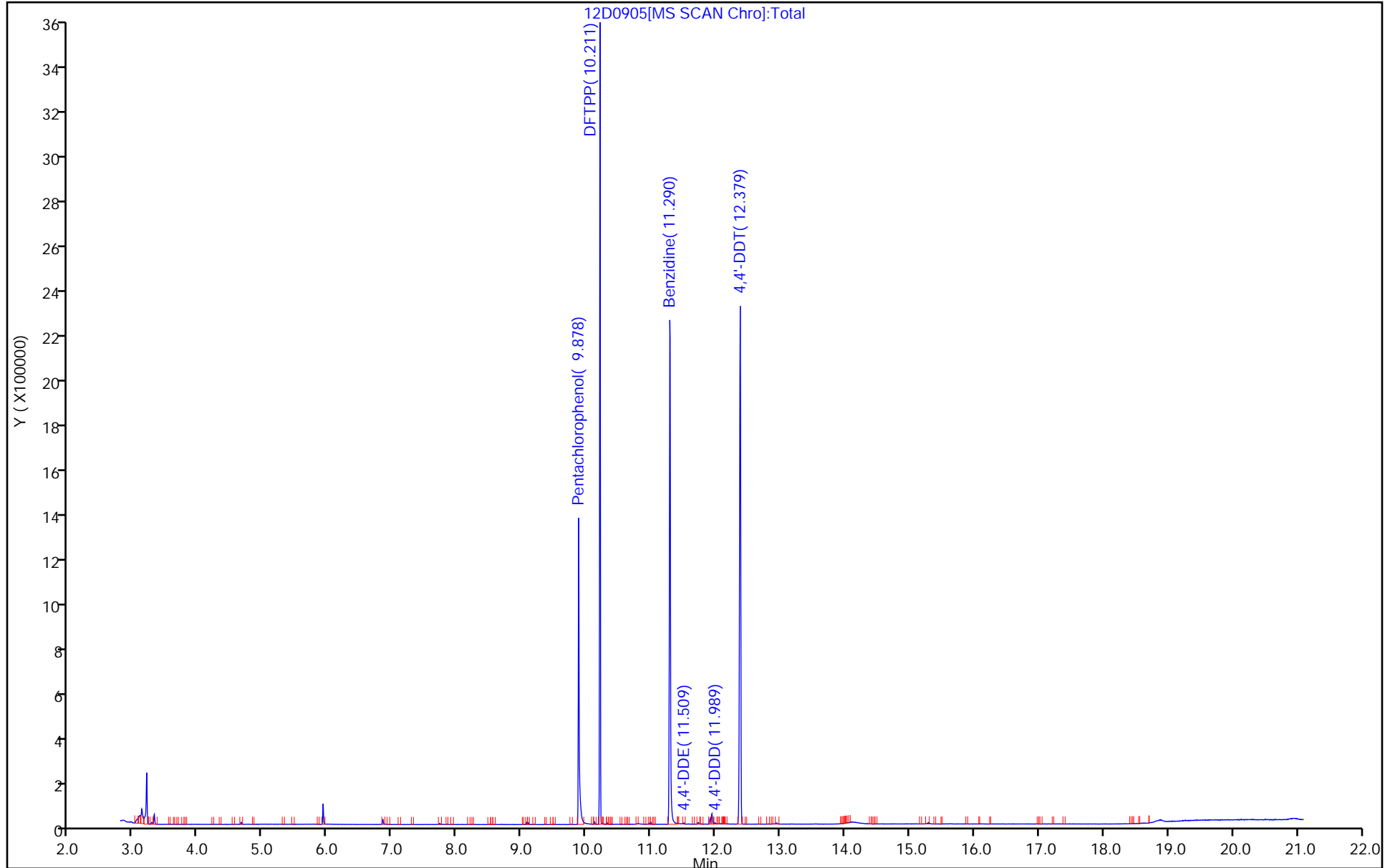
Dil. Factor: 1.0000

ALS Bottle#: 1

Method: 12-LVI8270

Limit Group: MSBNA_8270D_ICAL

Column: ZB5MS (0.25 mm)



TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS12\20180905-54832.b\12D0905.D
Injection Date: 05-Sep-2018 08:15:30 Instrument ID: CMS12
Lims ID: dftpp
Client ID:
Operator ID: AD ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: 12-LVI8270 Limit Group: MSBNA_8270D_ICAL

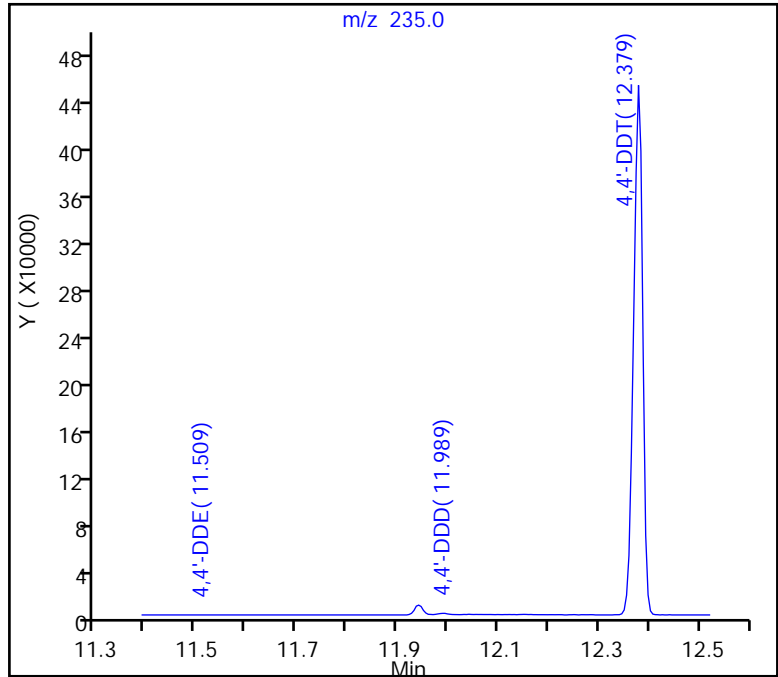
168 4,4'-DDT, Detector: MS SCAN

SW-846 Method

%Breakdown =
(Area Breakdown Cpnds/
Total Area Breakdown Cpnds) * 100

168 4,4'-DDT, Area = 569763
167 4,4'-DDD, Area = 1701
166 4,4'-DDE, Area = 975

%Breakdown: 0.47%, Max Limit: 20.00%
Passed



TestAmerica Chicago

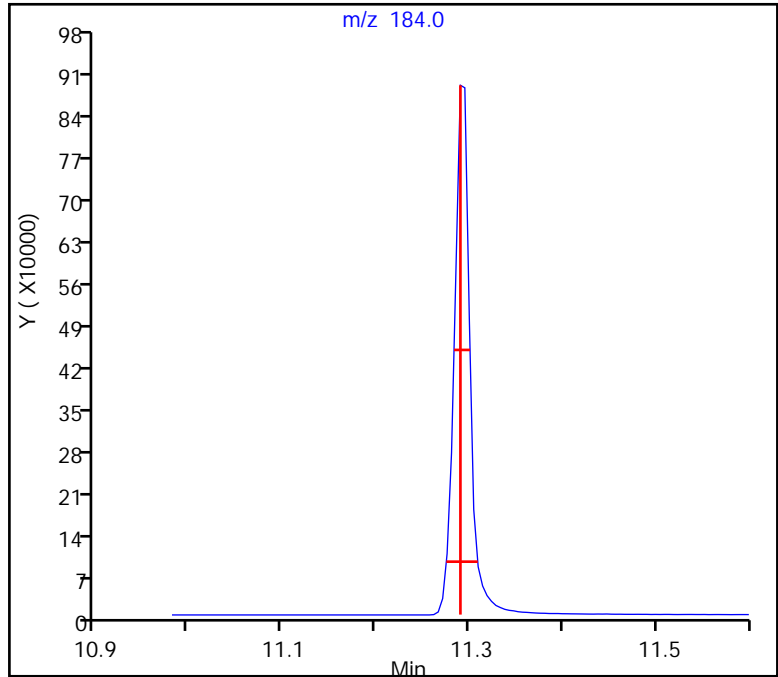
Data File: \\ChromNA\Chicago\ChromData\CMS12\20180905-54832.b\12D0905.D
Injection Date: 05-Sep-2018 08:15:30 Instrument ID: CMS12
Lims ID: dftpp
Client ID:
Operator ID: AD ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: 12-LVI8270 Limit Group: MSBNA_8270D_ICAL

136 Benzidine, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.019 (min.)
Front Width = 0.015 (min.)

Tailing Factor = 1.2, Max. Tailing < 2.00
Passed



TestAmerica Chicago

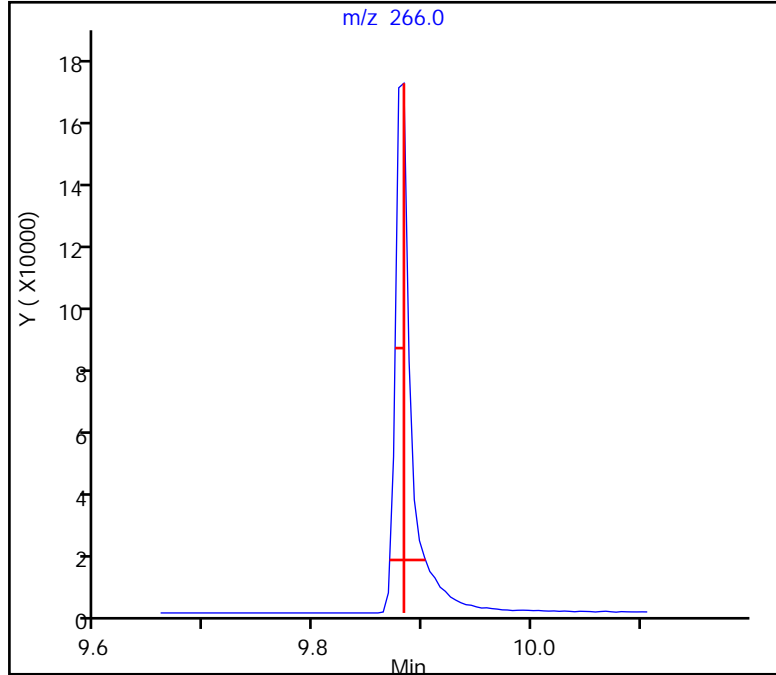
Data File: \\ChromNA\Chicago\ChromData\CMS12\20180905-54832.b\12D0905.D
Injection Date: 05-Sep-2018 08:15:30 Instrument ID: CMS12
Lims ID: dftpp
Client ID:
Operator ID: AD ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: 12-LVI8270 Limit Group: MSBNA_8270D_ICAL

120 Pentachlorophenol, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.020 (min.)
Front Width = 0.013 (min.)

Tailing Factor = 1.5, Max. Tailing < 2.00
Passed



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Chicago Job No.: 500-150867-2
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 500-448405/1-A
 Matrix: Solid Lab File ID: MB 500-448405.D
 Analysis Method: 8270D Date Collected: _____
 Extract. Method: 3510C Date Extracted: 09/05/2018 09:47
 Sample wt/vol: 1000 (mL) Date Analyzed: 09/05/2018 17:01
 Con. Extract Vol.: 5.0 (mL) Dilution Factor: 1
 Injection Volume: 5 (uL) Level: (low/med) Low
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 448368 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD
83-32-9	Acenaphthene	<0.36		1.0	0.36
208-96-8	Acenaphthylene	<0.32		1.0	0.32
120-12-7	Anthracene	<0.32		1.0	0.32
56-55-3	Benzo[a]anthracene	<0.044		0.20	0.044
50-32-8	Benzo[a]pyrene	<0.056		0.20	0.056
205-99-2	Benzo[b]fluoranthene	<0.058		0.20	0.058
191-24-2	Benzo[g,h,i]perylene	<0.42		1.0	0.42
207-08-9	Benzo[k]fluoranthene	<0.074		0.20	0.074
218-01-9	Chrysene	<0.14		0.50	0.14
53-70-3	Dibenz(a,h)anthracene	<0.064		0.30	0.064
206-44-0	Fluoranthene	<0.32		1.0	0.32
86-73-7	Fluorene	<0.38		1.0	0.38
193-39-5	Indeno[1,2,3-cd]pyrene	<0.084		0.20	0.084
91-20-3	Naphthalene	<0.30		1.0	0.30
85-01-8	Phenanthrene	<0.35		1.0	0.35
129-00-0	Pyrene	<0.48		1.0	0.48
90-12-0	1-Methylnaphthalene	<0.50		2.0	0.50
91-57-6	2-Methylnaphthalene	<0.13		2.0	0.13

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5 (Surr)	95		36-120
1718-51-0	Terphenyl-d14 (Surr)	109		40-145
321-60-8	2-Fluorobiphenyl (Surr)	80		34-110

TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS12\20180905-54832.b\MB 500-448405.D
 Lims ID: MB 500-448405/1-A
 Client ID:
 Sample Type: MB
 Inject. Date: 05-Sep-2018 17:01:30 ALS Bottle#: 18 Worklist Smp#: 30
 Injection Vol: 5.0 ul Dil. Factor: 1.0000
 Sample Info: MB 500-448405/1-A
 Misc. Info.: 500-0054832-030
 Operator ID: AD Instrument ID: CMS12
 Method: \\ChromNA\Chicago\ChromData\CMS12\20180905-54832.b\12-LVI8270.m
 Limit Group: MSBNA_8270D_ICAL
 Method Label: TestAmerica Chicago GC/MS SVOA
 Last Update: 05-Sep-2018 18:29:55 Calib Date: 15-Aug-2018 22:24:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Chicago\ChromData\CMS12\20180815-54379.b\L1STD70.D
 Column 1 : ZB5MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK014

First Level Reviewer: swaneyg

Date: 05-Sep-2018 18:29:55

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.254	6.287	-0.033	96	114592	3.20	3.20	
* 2 Naphthalene-d8	136	7.310	7.319	-0.009	99	505715	3.20	3.20	
* 3 Acenaphthene-d10	164	8.784	8.784	0.000	96	243373	3.20	3.20	
* 4 Phenanthrene-d10	188	10.030	10.035	-0.005	98	428688	3.20	3.20	
* 5 Chrysene-d12	240	13.202	13.216	-0.014	99	422124	3.20	3.20	
* 6 Perylene-d12	264	16.683	16.697	-0.014	98	445483	3.20	3.20	
\$ 7 2-Fluorophenol	112	5.213	5.294	-0.081	90	96932	5.00	3.86	
\$ 8 Phenol-d5	99	5.959	5.993	-0.034	99	95468	5.00	2.16	
\$ 9 Nitrobenzene-d5	82	6.706	6.725	-0.019	90	202011	5.00	4.75	
\$ 10 2-Fluorobiphenyl	172	8.194	8.199	-0.005	99	451898	5.00	3.99	
\$ 11 2,4,6-Tribromophenol	330	9.450	9.450	0.000	64	121753	5.00	4.84	
\$ 12 Terphenyl-d14	244	11.576	11.580	-0.004	99	613752	5.00	5.43	

Reagents:

SM_HIVOLISTD_00215

Amount Added: 10.00

Units: uL

Run Reagent

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS12\20180905-54832.b\MB 500-448405.D

Injection Date: 05-Sep-2018 17:01:30

Instrument ID: CMS12

Operator ID: AD

Lims ID: MB 500-448405/1-A

Worklist Smp#: 30

Client ID:

Injection Vol: 5.0 ul

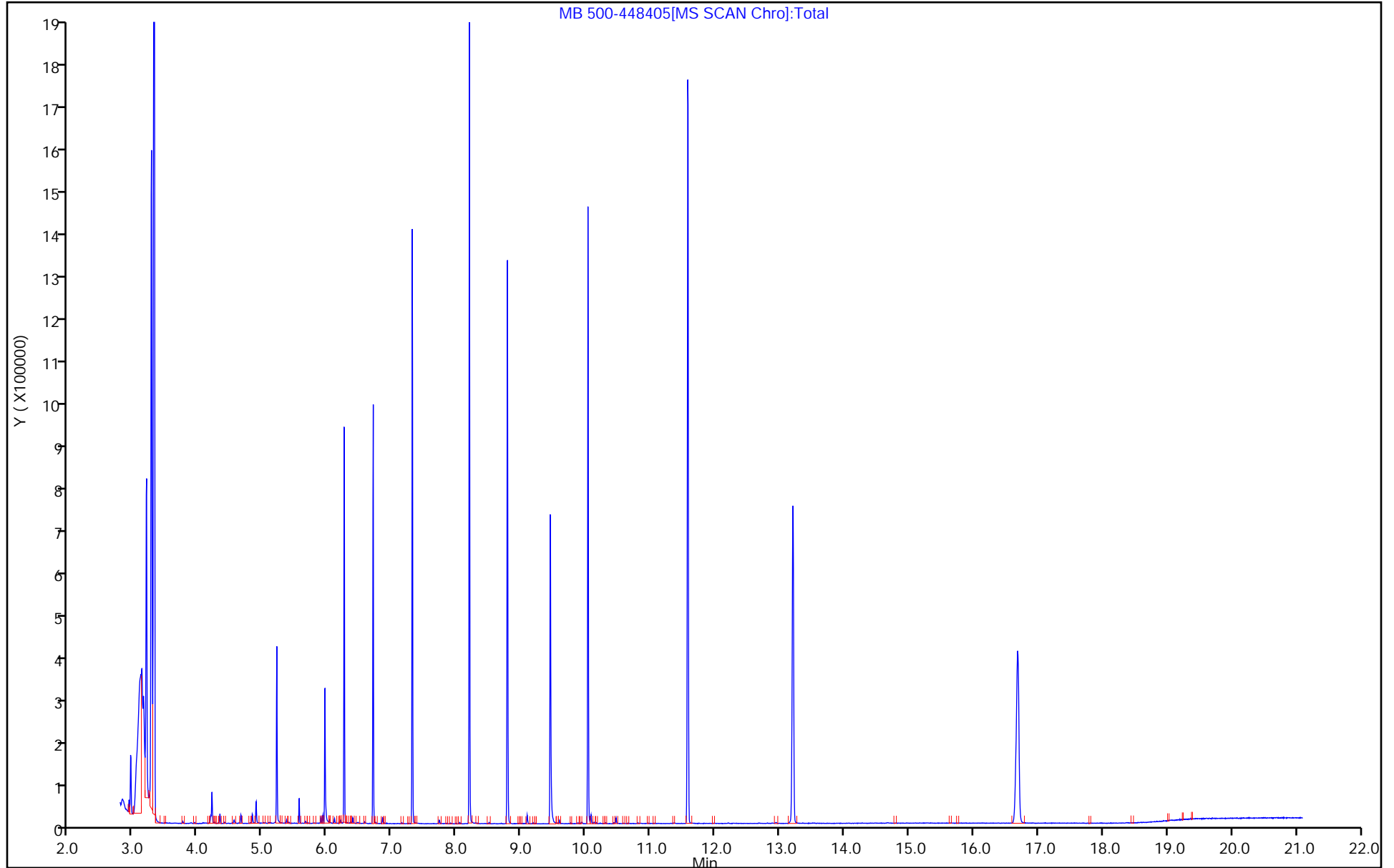
Dil. Factor: 1.0000

ALS Bottle#: 18

Method: 12-LVI8270

Limit Group: MSBNA_8270D_ICAL

Column: ZB5MS (0.25 mm)



TestAmerica Chicago
Recovery Report

Data File: \\ChromNA\Chicago\ChromData\CMS12\20180905-54832.b\MB 500-448405.D
 Lims ID: MB 500-448405/1-A
 Client ID:
 Sample Type: MB
 Inject. Date: 05-Sep-2018 17:01:30 ALS Bottle#: 18 Worklist Smp#: 30
 Injection Vol: 5.0 ul Dil. Factor: 1.0000
 Sample Info: MB 500-448405/1-A
 Misc. Info.: 500-0054832-030
 Operator ID: AD Instrument ID: CMS12
 Method: \\ChromNA\Chicago\ChromData\CMS12\20180905-54832.b\12-LVI8270.m
 Limit Group: MSBNA_8270D_ICAL
 Method Label: TestAmerica Chicago GC/MS SVOA
 Last Update: 05-Sep-2018 18:29:55 Calib Date: 15-Aug-2018 22:24:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Chicago\ChromData\CMS12\20180815-54379.b\L1STD70.D
 Column 1 : ZB5MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK014

First Level Reviewer: swaneyg Date: 05-Sep-2018 18:29:55

Compound	Amount Added	Amount Recovered	% Rec.
\$ 7 2-Fluorophenol	5.00	3.86	77.28
\$ 8 Phenol-d5	5.00	2.16	43.18
\$ 9 Nitrobenzene-d5	5.00	4.75	94.99
\$ 10 2-Fluorobiphenyl	5.00	3.99	79.89
\$ 11 2,4,6-Tribromophenol	5.00	4.84	96.87
\$ 12 Terphenyl-d14	5.00	5.43	108.68

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Chicago Job No.: 500-150867-2
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LB3 500-448263/1-C
 Matrix: Solid (ASTM Leach) Lab File ID: LB3 500-448263.D
 Analysis Method: 8270D Date Collected: _____
 Extract. Method: 3510C Date Extracted: 09/05/2018 09:47
 Sample wt/vol: 100 (mL) Date Analyzed: 09/05/2018 16:03
 Con. Extract Vol.: 5.0 (mL) Dilution Factor: 1
 Injection Volume: 5 (uL) Level: (low/med) Low
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 448368 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD
83-32-9	Acenaphthene	<3.6		10	3.6
208-96-8	Acenaphthylene	<3.2		10	3.2
120-12-7	Anthracene	<3.2		10	3.2
56-55-3	Benzo[a]anthracene	<0.44		2.0	0.44
50-32-8	Benzo[a]pyrene	<0.56		2.0	0.56
205-99-2	Benzo[b]fluoranthene	<0.58		2.0	0.58
191-24-2	Benzo[g,h,i]perylene	<4.2		10	4.2
207-08-9	Benzo[k]fluoranthene	<0.74		2.0	0.74
218-01-9	Chrysene	<1.4		5.0	1.4
53-70-3	Dibenz(a,h)anthracene	<0.64		3.0	0.64
206-44-0	Fluoranthene	<3.2		10	3.2
86-73-7	Fluorene	<3.8		10	3.8
193-39-5	Indeno[1,2,3-cd]pyrene	<0.84		2.0	0.84
91-20-3	Naphthalene	<3.0		10	3.0
85-01-8	Phenanthrene	<3.5		10	3.5
129-00-0	Pyrene	<4.8		10	4.8
90-12-0	1-Methylnaphthalene	<5.0		20	5.0
91-57-6	2-Methylnaphthalene	<1.3		20	1.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5 (Surr)	89		36-120
1718-51-0	Terphenyl-d14 (Surr)	99		40-145
321-60-8	2-Fluorobiphenyl (Surr)	77		34-110

TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS12\20180905-54832.b\LB3 500-448263.D
 Lims ID: LB3 500-448263/1-C
 Client ID:
 Sample Type: LB3
 Inject. Date: 05-Sep-2018 16:03:30 ALS Bottle#: 16 Worklist Smp#: 28
 Injection Vol: 5.0 ul Dil. Factor: 1.0000
 Sample Info: LB3 500-448263/1-C
 Misc. Info.: 500-0054832-028
 Operator ID: AD Instrument ID: CMS12
 Method: \\ChromNA\Chicago\ChromData\CMS12\20180905-54832.b\12-LVI8270.m
 Limit Group: MSBNA_8270D_ICAL
 Method Label: TestAmerica Chicago GC/MS SVOA
 Last Update: 05-Sep-2018 18:13:18 Calib Date: 15-Aug-2018 22:24:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Chicago\ChromData\CMS12\20180815-54379.b\L1STD70.D
 Column 1 : ZB5MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK014

First Level Reviewer: swaneyg

Date: 05-Sep-2018 18:13:18

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.254	6.287	-0.033	95	112981	3.20	3.20	
* 2 Naphthalene-d8	136	7.310	7.319	-0.009	99	515861	3.20	3.20	
* 3 Acenaphthene-d10	164	8.784	8.784	0.000	97	242659	3.20	3.20	
* 4 Phenanthrene-d10	188	10.030	10.035	-0.005	98	430439	3.20	3.20	
* 5 Chrysene-d12	240	13.207	13.216	-0.009	99	432972	3.20	3.20	
* 6 Perylene-d12	264	16.688	16.697	-0.009	98	466053	3.20	3.20	
\$ 7 2-Fluorophenol	112	5.213	5.294	-0.081	89	88168	5.00	3.62	
\$ 8 Phenol-d5	99	5.959	5.993	-0.034	98	83140	5.00	1.93	
\$ 9 Nitrobenzene-d5	82	6.706	6.725	-0.019	89	192851	5.00	4.44	
\$ 10 2-Fluorobiphenyl	172	8.195	8.199	-0.004	99	432790	5.00	3.84	
\$ 11 2,4,6-Tribromophenol	330	9.450	9.450	0.000	73	111560	5.00	4.53	
\$ 12 Terphenyl-d14	244	11.576	11.580	-0.004	99	570561	5.00	4.93	

Reagents:

SM_HIVOLISTD_00215

Amount Added: 10.00

Units: uL

Run Reagent

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS12\20180905-54832.b\LB3 500-448263.D

Injection Date: 05-Sep-2018 16:03:30

Instrument ID: CMS12

Operator ID: AD

Lims ID: LB3 500-448263/1-C

Worklist Smp#: 28

Client ID:

Injection Vol: 5.0 ul

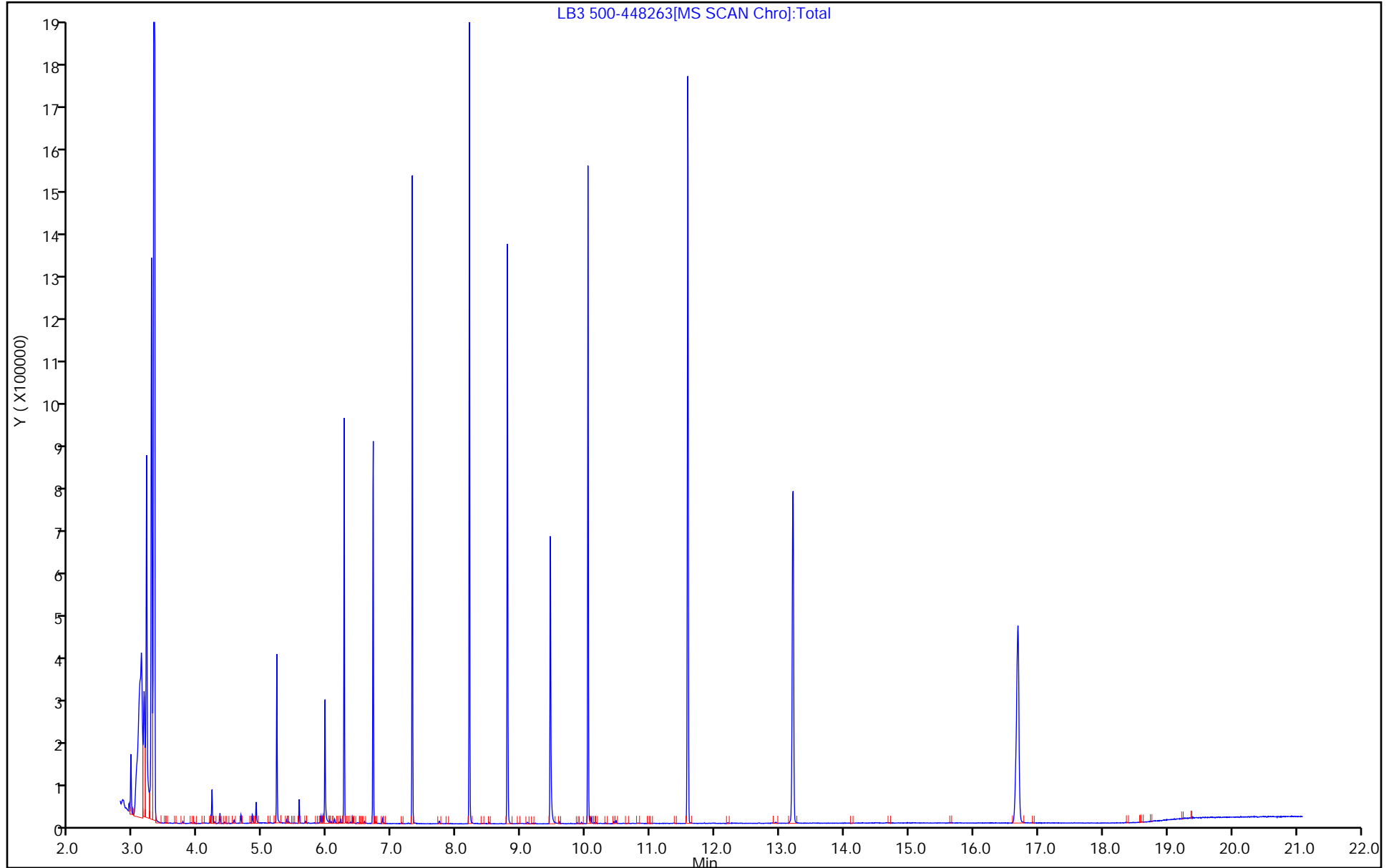
Dil. Factor: 1.0000

ALS Bottle#: 16

Method: 12-LVI8270

Limit Group: MSBNA_8270D_ICAL

Column: ZB5MS (0.25 mm)



TestAmerica Chicago
Recovery Report

Data File: \\ChromNA\Chicago\ChromData\CMS12\20180905-54832.b\LB3 500-448263.D
 Lims ID: LB3 500-448263/1-C
 Client ID:
 Sample Type: LB3
 Inject. Date: 05-Sep-2018 16:03:30 ALS Bottle#: 16 Worklist Smp#: 28
 Injection Vol: 5.0 ul Dil. Factor: 1.0000
 Sample Info: LB3 500-448263/1-C
 Misc. Info.: 500-0054832-028
 Operator ID: AD Instrument ID: CMS12
 Method: \\ChromNA\Chicago\ChromData\CMS12\20180905-54832.b\12-LVI8270.m
 Limit Group: MSBNA_8270D_ICAL
 Method Label: TestAmerica Chicago GC/MS SVOA
 Last Update: 05-Sep-2018 18:13:18 Calib Date: 15-Aug-2018 22:24:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Chicago\ChromData\CMS12\20180815-54379.b\L1STD70.D
 Column 1 : ZB5MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK014

First Level Reviewer: swaneyg Date: 05-Sep-2018 18:13:18

Compound	Amount Added	Amount Recovered	% Rec.
\$ 7 2-Fluorophenol	5.00	3.62	72.30
\$ 8 Phenol-d5	5.00	1.93	38.50
\$ 9 Nitrobenzene-d5	5.00	4.44	88.90
\$ 10 2-Fluorobiphenyl	5.00	3.84	76.87
\$ 11 2,4,6-Tribromophenol	5.00	4.53	90.50
\$ 12 Terphenyl-d14	5.00	4.93	98.50

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Chicago Job No.: 500-150867-2
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 500-448405/2-A
 Matrix: Solid Lab File ID: LCS 500-448405.D
 Analysis Method: 8270D Date Collected: _____
 Extract. Method: 3510C Date Extracted: 09/05/2018 09:47
 Sample wt/vol: 1000 (mL) Date Analyzed: 09/05/2018 14:35
 Con. Extract Vol.: 5.0 (mL) Dilution Factor: 1
 Injection Volume: 5 (uL) Level: (low/med) Low
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 448368 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD
83-32-9	Acenaphthene	37.5		1.0	0.36
208-96-8	Acenaphthylene	38.5		1.0	0.32
120-12-7	Anthracene	38.9		1.0	0.32
56-55-3	Benzo[a]anthracene	41.4		0.20	0.044
50-32-8	Benzo[a]pyrene	45.4		0.20	0.056
205-99-2	Benzo[b]fluoranthene	46.5		0.20	0.058
191-24-2	Benzo[g,h,i]perylene	33.9		1.0	0.42
207-08-9	Benzo[k]fluoranthene	47.2		0.20	0.074
218-01-9	Chrysene	44.6		0.50	0.14
53-70-3	Dibenz(a,h)anthracene	37.2		0.30	0.064
206-44-0	Fluoranthene	42.3		1.0	0.32
86-73-7	Fluorene	33.9		1.0	0.38
193-39-5	Indeno[1,2,3-cd]pyrene	35.6		0.20	0.084
91-20-3	Naphthalene	33.2		1.0	0.30
85-01-8	Phenanthrene	38.9		1.0	0.35
129-00-0	Pyrene	39.6		1.0	0.48
90-12-0	1-Methylnaphthalene	33.6		2.0	0.50
91-57-6	2-Methylnaphthalene	33.7		2.0	0.13

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5 (Surr)	93		36-120
1718-51-0	Terphenyl-d14 (Surr)	98		40-145
321-60-8	2-Fluorobiphenyl (Surr)	92		34-110

TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS12\20180905-54832.b\LCS 500-448405.D
 Lims ID: LCS 500-448405/2-A
 Client ID:
 Sample Type: LCS
 Inject. Date: 05-Sep-2018 14:35:30 ALS Bottle#: 13 Worklist Smp#: 25
 Injection Vol: 5.0 ul Dil. Factor: 1.0000
 Sample Info: LCS 500-448405/2-A
 Misc. Info.: 500-0054832-025
 Operator ID: AD Instrument ID: CMS12
 Method: \\ChromNA\Chicago\ChromData\CMS12\20180905-54832.b\12-LVI8270.m
 Limit Group: MSBNA_8270D_ICAL
 Method Label: TestAmerica Chicago GC/MS SVOA
 Last Update: 05-Sep-2018 23:19:58 Calib Date: 15-Aug-2018 22:24:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Chicago\ChromData\CMS12\20180815-54379.b\L1STD70.D
 Column 1 : ZB5MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK023

First Level Reviewer: swaneyg

Date: 05-Sep-2018 23:19:58

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.259	6.259	0.000	93	129082	3.20	3.20	
* 2 Naphthalene-d8	136	7.315	7.315	0.000	99	496218	3.20	3.20	
* 3 Acenaphthene-d10	164	8.784	8.784	0.000	96	236585	3.20	3.20	
* 4 Phenanthrene-d10	188	10.035	10.035	0.000	98	420543	3.20	3.20	
* 5 Chrysene-d12	240	13.216	13.221	-0.005	98	464806	3.20	3.20	
* 6 Perylene-d12	264	16.697	16.702	-0.005	97	428845	3.20	3.20	
\$ 7 2-Fluorophenol	112	5.208	5.213	-0.005	90	130526	5.00	4.47	
\$ 8 Phenol-d5	99	5.959	5.964	-0.005	99	111372	5.00	2.23	
\$ 9 Nitrobenzene-d5	82	6.706	6.711	-0.005	91	194527	5.00	4.66	
\$ 10 2-Fluorobiphenyl	172	8.194	8.199	-0.005	99	507219	5.00	4.59	
\$ 11 2,4,6-Tribromophenol	330	9.450	9.450	0.000	67	136209	5.00	5.42	
\$ 12 Terphenyl-d14	244	11.580	11.581	-0.001	99	609911	5.00	4.90	
13 1,4-Dioxane	88	3.605	3.620	-0.015	93	57917	8.00	5.51	
14 N-Nitrosodimethylamine	42	3.924	3.943	-0.019	74	175005	8.00	4.63	
15 Pyridine	79	3.971	3.981	-0.010	89	444212	16.0	10.4	
25 Phenol	94	5.969	5.974	-0.005	97	218906	8.00	4.05	
26 Aniline	93	5.983	5.988	-0.005	98	450486	8.00	6.73	a
27 Bis(2-chloroethyl)ether	93	6.016	6.021	-0.005	98	293659	8.00	6.49	
29 2-Chlorophenol	128	6.102	6.102	0.000	95	388480	8.00	7.11	
30 n-Decane	43	6.107	6.112	-0.005	93	339109	8.00	4.91	
31 1,3-Dichlorobenzene	146	6.216	6.221	-0.005	98	349849	8.00	5.57	a
32 1,4-Dichlorobenzene	146	6.273	6.273	0.000	96	360396	8.00	5.58	a
33 Benzyl alcohol	108	6.364	6.368	-0.004	93	187177	8.00	5.84	
34 1,2-Dichlorobenzene	146	6.402	6.406	-0.004	98	350018	8.00	5.67	
36 2-Methylphenol	107	6.454	6.459	-0.005	94	270096	8.00	7.33	
35 2,2'-oxybis[1-chloropropan	45	6.459	6.464	-0.005	92	624185	8.00	6.37	
37 Indene	116	6.473	6.478	-0.005	87	1050463	16.0	13.5	
41 N-Nitrosodi-n-propylamine	70	6.573	6.578	-0.005	93	214032	8.00	6.84	
42 3 & 4 Methylphenol	108	6.578	6.582	-0.004	71	305292	8.00	6.58	a
40 Acetophenone	105	6.578	6.582	-0.004	93	481267	8.00	6.96	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
44 Hexachloroethane	117	6.682	6.687	-0.005	98	134903	8.00	5.22	
45 Nitrobenzene	77	6.725	6.730	-0.005	90	300890	8.00	7.86	
47 Isophorone	82	6.920	6.925	-0.005	98	540950	8.00	7.88	
48 2-Nitrophenol	139	6.991	6.991	0.000	88	206710	8.00	7.87	
49 2,4-Dimethylphenol	122	7.010	7.015	-0.005	93	353517	8.00	7.87	
51 Bis(2-chloroethoxy)methane	93	7.072	7.072	0.000	98	388041	8.00	7.55	
52 Benzoic acid	122	7.115	7.158	-0.043	92	162047	16.0	6.64	
54 2,4-Dichlorophenol	162	7.201	7.201	-0.001	96	343811	8.00	7.89	
55 1,2,4-Trichlorobenzene	180	7.262	7.263	0.000	94	295563	8.00	5.18	
56 Naphthalene	128	7.334	7.334	0.000	99	972661	8.00	6.64	
57 4-Chloroaniline	127	7.362	7.367	-0.005	98	481946	8.00	7.48	
58 2,6-Dichlorophenol	162	7.376	7.381	-0.005	98	339347	8.00	7.61	
60 Hexachlorobutadiene	225	7.429	7.429	0.000	95	158573	8.00	4.73	
64 Caprolactam	113	7.662	7.671	-0.009	84	43306	8.00	3.20	
65 4-Chloro-3-methylphenol	107	7.766	7.762	0.004	91	291450	8.00	8.15	
67 2-Methylnaphthalene	142	7.904	7.905	0.000	96	682905	8.00	6.73	
68 1-Methylnaphthalene	142	7.990	7.990	0.000	95	652151	8.00	6.73	
69 Hexachlorocyclopentadiene	237	8.037	8.042	-0.005	91	57477	8.00	1.92	
70 1,2,4,5-Tetrachlorobenzene	216	8.047	8.052	-0.005	97	318808	8.00	5.26	
72 2,4,6-Trichlorophenol	196	8.137	8.142	-0.005	90	240569	8.00	7.59	
73 2,4,5-Trichlorophenol	196	8.190	8.190	0.000	96	257447	8.00	7.75	
75 1,1'-Biphenyl	154	8.285	8.290	-0.005	95	853927	8.00	6.87	
76 2-Chloronaphthalene	162	8.318	8.318	0.000	95	655758	8.00	6.84	
78 2-Nitroaniline	65	8.394	8.394	0.000	91	171355	8.00	8.32	
82 Dimethyl phthalate	163	8.518	8.523	-0.005	96	816637	8.00	8.70	
83 1,3-Dinitrobenzene	168	8.565	8.570	-0.005	86	121653	8.00	9.65	
84 2,6-Dinitrotoluene	165	8.584	8.585	-0.001	92	184199	8.00	8.45	
85 Acenaphthylene	152	8.670	8.670	0.000	98	972600	8.00	7.71	
86 3-Nitroaniline	138	8.737	8.741	-0.004	93	180193	8.00	7.58	
87 Acenaphthene	153	8.813	8.813	0.000	90	728243	8.00	7.51	
88 2,4-Dinitrophenol	184	8.827	8.832	-0.005	84	108194	16.0	8.08	
89 4-Nitrophenol	109	8.898	8.898	0.000	89	83252	16.0	6.08	
91 2,4-Dinitrotoluene	165	8.927	8.932	-0.005	95	241833	8.00	8.57	
92 Dibenzofuran	168	8.955	8.955	0.000	96	982569	8.00	7.77	
95 2,3,4,6-Tetrachlorophenol	232	9.065	9.065	0.000	71	221716	8.00	7.67	
98 Hexadecane	57	9.103	9.103	0.000	63	391051	8.00	7.04	
97 Diethyl phthalate	149	9.103	9.108	-0.005	97	861037	8.00	8.45	
100 4-Chlorophenyl phenyl ethe	204	9.217	9.222	-0.005	91	392323	8.00	6.86	
102 Fluorene	166	9.245	9.246	-0.001	93	806451	8.00	6.79	
103 4-Nitroaniline	138	9.260	9.260	0.000	86	190140	8.00	6.08	
104 4,6-Dinitro-2-methylphenol	198	9.283	9.288	-0.005	90	192192	16.0	12.4	
106 N-Nitrosodiphenylamine	169	9.317	9.322	-0.005	63	597367	8.00	7.89	
107 1,2-Diphenylhydrazine	77	9.355	9.360	-0.005	99	657469	8.00	7.61	
114 4-Bromophenyl phenyl ether	248	9.631	9.631	0.000	60	288534	8.00	7.54	
117 Hexachlorobenzene	284	9.721	9.721	0.000	96	375061	8.00	7.41	
118 Atrazine	200	9.745	9.745	0.000	70	189933	8.00	8.00	
123 n-Octadecane	43	9.868	9.869	-0.001	98	413601	8.00	7.47	
120 Pentachlorophenol	266	9.883	9.883	0.000	86	370212	16.0	10.6	
126 Phenanthrene	178	10.054	10.059	-0.005	97	1238054	8.00	7.78	
127 Anthracene	178	10.101	10.102	-0.001	98	1285176	8.00	7.79	
128 Carbazole	167	10.220	10.225	-0.005	96	1146334	8.00	8.99	
130 Di-n-butyl phthalate	149	10.468	10.468	0.000	99	1476076	8.00	9.10	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
135 Fluoranthene	202	11.176	11.181	-0.005	98	1359765	8.00	8.47	
136 Benzidine	184	11.290	11.290	0.000	97	273491	8.00	3.90	
137 Pyrene	202	11.447	11.447	0.000	95	1392889	8.00	7.92	
145 Butyl benzyl phthalate	149	12.208	12.208	0.000	94	662413	8.00	8.43	
147 3,3'-Dichlorobenzidine	252	13.126	13.131	-0.005	99	517046	8.00	8.65	
150 Bis(2-ethylhexyl) phthalat	149	13.174	13.174	0.000	93	1017659	8.00	8.44	
149 Benzo[a]anthracene	228	13.202	13.202	0.000	99	1439802	8.00	8.29	
151 Chrysene	228	13.269	13.274	-0.005	97	1288857	8.00	8.92	
154 Di-n-octyl phthalate	149	14.572	14.572	0.000	73	1602808	8.00	11.4	
156 Benzo[b]fluoranthene	252	15.594	15.590	0.004	98	1249061	8.00	9.30	
157 Benzo[k]fluoranthene	252	15.670	15.675	-0.005	98	1320988	8.00	9.45	
158 Benzo[a]pyrene	252	16.536	16.541	-0.005	96	1179497	8.00	9.09	
162 Indeno[1,2,3-cd]pyrene	276	19.746	19.755	-0.009	98	1271334	8.00	7.13	
163 Dibenz(a,h)anthracene	278	19.789	19.803	-0.014	94	1141217	8.00	7.44	
164 Benzo[g,h,i]perylene	276	20.359	20.378	-0.019	96	953999	8.00	6.79	

QC Flag Legend

Review Flags

a - User Assigned ID

Reagents:

SM_HIVOLISTD_00215

Amount Added: 10.00

Units: uL

Run Reagent

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS12\20180905-54832.b\LCS 500-448405.D

Injection Date: 05-Sep-2018 14:35:30

Instrument ID: CMS12

Operator ID: AD

Lims ID: LCS 500-448405/2-A

Worklist Smp#: 25

Client ID:

Injection Vol: 5.0 ul

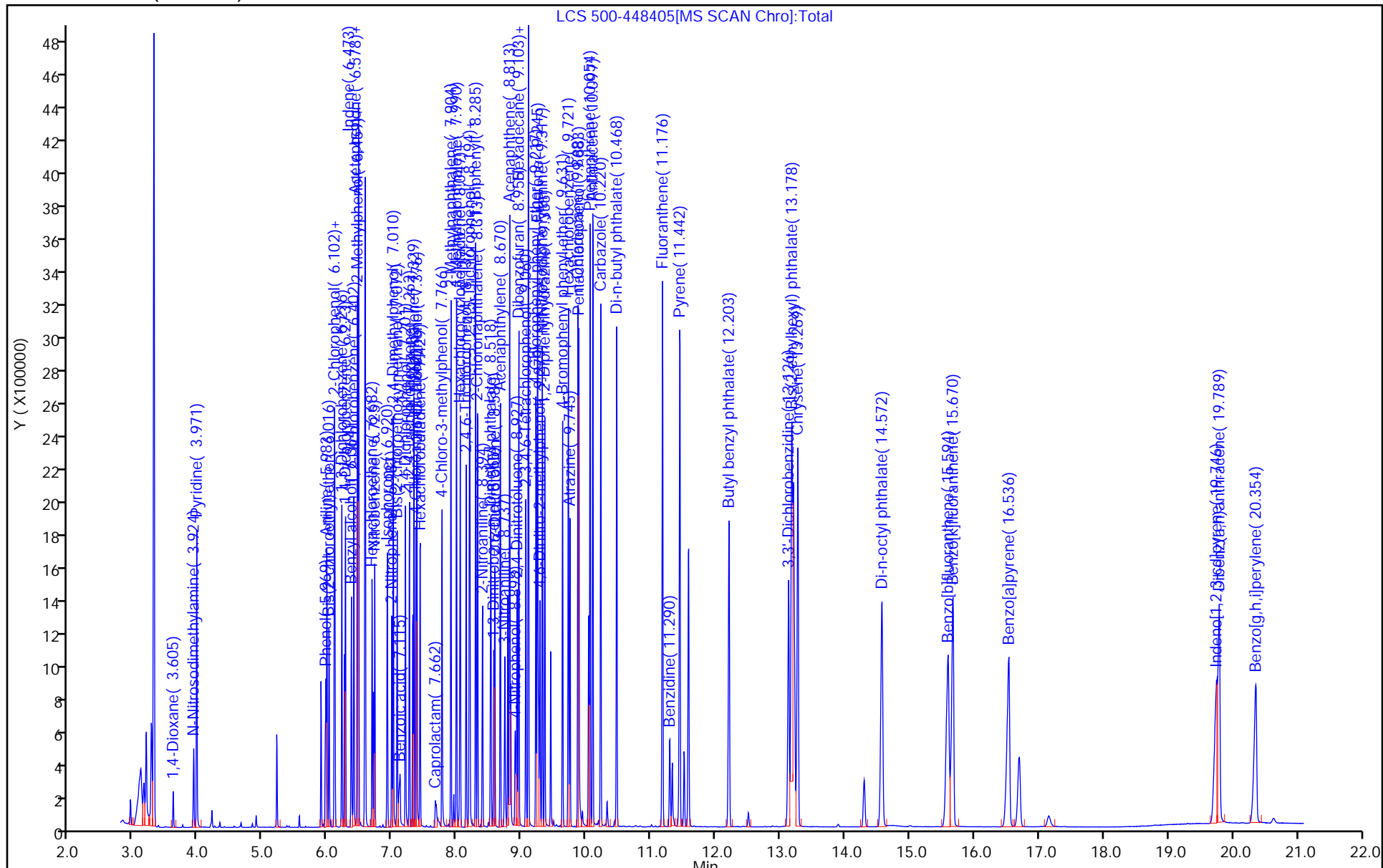
Dil. Factor: 1.0000

ALS Bottle#: 13

Method: 12-LV18270

Limit Group: MSBNA_8270D_ICAL

Column: ZB5MS (0.25 mm)



TestAmerica Chicago
Recovery Report

Data File: \\ChromNA\Chicago\ChromData\CMS12\20180905-54832.b\LCS 500-448405.D
 Lims ID: LCS 500-448405/2-A
 Client ID:
 Sample Type: LCS
 Inject. Date: 05-Sep-2018 14:35:30 ALS Bottle#: 13 Worklist Smp#: 25
 Injection Vol: 5.0 ul Dil. Factor: 1.0000
 Sample Info: LCS 500-448405/2-A
 Misc. Info.: 500-0054832-025
 Operator ID: AD Instrument ID: CMS12
 Method: \\ChromNA\Chicago\ChromData\CMS12\20180905-54832.b\12-LVI8270.m
 Limit Group: MSBNA_8270D_ICAL
 Method Label: TestAmerica Chicago GC/MS SVOA
 Last Update: 05-Sep-2018 23:19:58 Calib Date: 15-Aug-2018 22:24:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Chicago\ChromData\CMS12\20180815-54379.b\L1STD70.D
 Column 1 : ZB5MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK023

First Level Reviewer: swaneyg

Date: 05-Sep-2018 23:19:58

Compound	Amount Added	Amount Recovered	% Rec.
\$ 7 2-Fluorophenol	5.00	4.47	89.36
\$ 8 Phenol-d5	5.00	2.23	44.61
\$ 9 Nitrobenzene-d5	5.00	4.66	93.22
\$ 10 2-Fluorobiphenyl	5.00	4.59	91.75
\$ 11 2,4,6-Tribromophenol	5.00	5.42	108.31
\$ 12 Terphenyl-d14	5.00	4.90	98.08

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Chicago Job No.: 500-150867-2

SDG No.: _____

Instrument ID: CMS12 Start Date: 08/15/2018 16:52

Analysis Batch Number: 445577 End Date: 08/16/2018 03:19

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 500-445577/1		08/15/2018 16:52	1	12D0815D.D	ZB5MS 0.25 (mm)
IC 500-445577/2		08/15/2018 17:27	1	L1STD2.D	ZB5MS 0.25 (mm)
IC 500-445577/3		08/15/2018 17:57	1	L1STD02.D	ZB5MS 0.25 (mm)
IC 500-445577/4		08/15/2018 18:27	1	L1STD05.D	ZB5MS 0.25 (mm)
IC 500-445577/5		08/15/2018 18:56	1	L1STD1.D	ZB5MS 0.25 (mm)
IC 500-445577/6		08/15/2018 19:26	1	L1STD5.D	ZB5MS 0.25 (mm)
IC 500-445577/7		08/15/2018 19:55	1	L1STD10.D	ZB5MS 0.25 (mm)
IC 500-445577/8		08/15/2018 20:25	1	L1STD20.D	ZB5MS 0.25 (mm)
ICIS 500-445577/9		08/15/2018 20:55	1	L1STD40.D	ZB5MS 0.25 (mm)
IC 500-445577/10		08/15/2018 21:24	1	L1STD50.D	ZB5MS 0.25 (mm)
IC 500-445577/11		08/15/2018 21:54	1	L1STD60.D	ZB5MS 0.25 (mm)
IC 500-445577/12		08/15/2018 22:24	1	L1STD70.D	ZB5MS 0.25 (mm)
ICV 500-445577/13		08/15/2018 22:53	1	L1ICV.D	ZB5MS 0.25 (mm)
CCV 500-445577/29		08/15/2018 23:23	1		ZB5MS 0.25 (mm)
ZZZZZ		08/15/2018 23:52	1		ZB5MS 0.25 (mm)
ZZZZZ		08/16/2018 00:22	1		ZB5MS 0.25 (mm)
ZZZZZ		08/16/2018 00:51	1		ZB5MS 0.25 (mm)
ZZZZZ		08/16/2018 01:21	1		ZB5MS 0.25 (mm)
ZZZZZ		08/16/2018 02:20	1		ZB5MS 0.25 (mm)
ZZZZZ		08/16/2018 02:50	1		ZB5MS 0.25 (mm)
ZZZZZ		08/16/2018 03:19	1		ZB5MS 0.25 (mm)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Chicago Job No.: 500-150867-2

SDG No.: _____

Instrument ID: CMS12 Start Date: 09/05/2018 08:15

Analysis Batch Number: 448368 End Date: 09/05/2018 19:56

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 500-448368/1		09/05/2018 08:15	1	12D0905.D	ZB5MS 0.25 (mm)
CCVIS 500-448368/2		09/05/2018 08:44	1	12C0905.D	ZB5MS 0.25 (mm)
CCVL 500-448368/3		09/05/2018 09:13	1		ZB5MS 0.25 (mm)
CCV 500-448368/4		09/05/2018 09:43	1		ZB5MS 0.25 (mm)
ZZZZZ		09/05/2018 10:12	1		ZB5MS 0.25 (mm)
ZZZZZ		09/05/2018 11:11	1		ZB5MS 0.25 (mm)
ZZZZZ		09/05/2018 11:40	1		ZB5MS 0.25 (mm)
ZZZZZ		09/05/2018 12:09	1		ZB5MS 0.25 (mm)
ZZZZZ		09/05/2018 12:38	1		ZB5MS 0.25 (mm)
ZZZZZ		09/05/2018 13:07	1		ZB5MS 0.25 (mm)
ZZZZZ		09/05/2018 13:37	1		ZB5MS 0.25 (mm)
ZZZZZ		09/05/2018 14:06	1		ZB5MS 0.25 (mm)
LCS 500-448405/2-A		09/05/2018 14:35	1	LCS 500-448405.D	ZB5MS 0.25 (mm)
ZZZZZ		09/05/2018 15:04	1		ZB5MS 0.25 (mm)
ZZZZZ		09/05/2018 15:33	1		ZB5MS 0.25 (mm)
LB3 500-448263/1-C		09/05/2018 16:03	1	LB3 500-448263.D	ZB5MS 0.25 (mm)
ZZZZZ		09/05/2018 16:32	1		ZB5MS 0.25 (mm)
MB 500-448405/1-A		09/05/2018 17:01	1	MB 500-448405.D	ZB5MS 0.25 (mm)
ZZZZZ		09/05/2018 17:30	1		ZB5MS 0.25 (mm)
ZZZZZ		09/05/2018 17:59	1		ZB5MS 0.25 (mm)
500-150867-5		09/05/2018 18:29	1	500-150867-A-5- C.D	ZB5MS 0.25 (mm)
ZZZZZ		09/05/2018 18:58	1		ZB5MS 0.25 (mm)
ZZZZZ		09/05/2018 19:28	1		ZB5MS 0.25 (mm)
ZZZZZ		09/05/2018 19:56	1		ZB5MS 0.25 (mm)

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Chicago Job No.: 500-150867-2

SDG No.: _____

Batch Number: 448263 Batch Start Date: 09/04/18 12:10 Batch Analyst: Christensen, Justin L

Batch Method: D3987-85 Batch End Date: 09/05/18 06:10

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount				
LB3 500-448263/1		D3987-85, 3510C, 8270D		1 g	1 mL				
500-150867-A-5	Leachate Solids	D3987-85, 3510C, 8270D	Y	1 g	1 mL				

Batch Notes	
Batch Comment	T498

Basis	Basis Description
Y	ASTM Leach

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Chicago Job No.: 500-150867-2

SDG No.: _____

Batch Number: 448405 Batch Start Date: 09/05/18 09:47 Batch Analyst: Smykowski, Justin

Batch Method: 3510C Batch End Date: 09/05/18 11:15

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	ReceivedpH	FirstAdjustpH	SecondAdjustpH	EXBNAL1SPW 00224
MB 500-448405/1		3510C, 8270D		1000 mL	5.0 mL	6 SU	2 SU	12 SU	
LCS 500-448405/2		3510C, 8270D		1000 mL	5.0 mL	6 SU	2 SU	12 SU	1000 uL
LB3 500-448263/1-A		3510C, 8270D		100 mL	5.0 mL	6 SU	2 SU	12 SU	
500-150867-A-5-A	Leachate Solids	3510C, 8270D	Y	50 mL	5.0 mL	7 SU	2 SU	12 SU	

Lab Sample ID	Client Sample ID	Method Chain	Basis	EXBNASURTS 00053					
MB 500-448405/1		3510C, 8270D		250 uL					
LCS 500-448405/2		3510C, 8270D		250 uL					
LB3 500-448263/1-A		3510C, 8270D		250 uL					
500-150867-A-5-A	Leachate Solids	3510C, 8270D	Y	250 uL					

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Chicago Job No.: 500-150867-2

SDG No.: _____

Batch Number: 448405 Batch Start Date: 09/05/18 09:47 Batch Analyst: Smykowski, JustinBatch Method: 3510C Batch End Date: 09/05/18 11:15

Batch Notes	
Acid Used for pH Adjustment ID	4842573
Balance ID	C-2619
Base Used to Adjust pH ID	4869653
Analyst ID - Concentration	BSO
Concentration 1 Corrected Temperature	37.0, 38.5, 37.5 Degrees C
Equipment ID - Concentration 1	C-2394, C-2177, C-2175
Analyst ID - Extraction	DAK, JS
Glass Wool ID	4811494
Na2SO4 ID	4902664
pH Indicator ID	3816, 220416A
Pipette/Syringe/Dispenser ID	A96, B38
Prep Solvent ID	DCM: 4910622
Prep Solvent Volume Used	360 mL
Analyst ID - Spike Analyst	JS
Analyst ID - Spike Witness Analyst	DAK
Thermometer ID - Concentration 1	VEEGEE#3
Concentration 1 Uncorrected Temperature	38.5, 40.0, 39.0 Degrees C

Basis	Basis Description
Y	ASTM Leach

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Method 8082A

Polychlorinated Biphenyls (PCBs)
(GC) by Method 8082A

FORM II
PCBS SURROGATE RECOVERY

Lab Name: TestAmerica Chicago Job No.: 500-150867-2

SDG No.: _____

Matrix: Solid (ASTM Leach) Level: Low

GC Column (1): ZB-5 ID: 0.53 (mm)

Client Sample ID	Lab Sample ID	TCX1 #	DCBP1 #
Leachate Solids	500-150867-5	44	49
	MB 500-448423/1-A	70	85
	LCS 500-448423/2-A	79	91

TCX = Tetrachloro-m-xylene
DCBP = DCB Decachlorobiphenyl

QC LIMITS
30-120
30-140

Column to be used to flag recovery values

FORM III
PCBS LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Chicago Job No.: 500-150867-2

SDG No.: _____

Matrix: Water Level: Low Lab File ID: 082218_457.D

Lab ID: LCS 500-448423/2-A Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
PCB-1016	5.00	4.30	86	56-120	
PCB-1260	5.00	4.61	92	53-137	

Column to be used to flag recovery and RPD values

FORM IV
PCBS METHOD BLANK SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-150867-2
 SDG No.: _____
 Lab Sample ID: MB 500-448423/1-A
 Matrix: Water Date Extracted: 09/05/2018 11:22
 Lab File ID: (1) 082218_456.D Lab File ID: (2) _____
 Date Analyzed: (1) 09/05/2018 16:22 Date Analyzed: (2) _____
 Instrument ID: (1) INST23-24 Instrument ID: (2) _____
 GC Column: (1) ZB-5 ID: 0.53(mm) GC Column: (2) _____ ID: _____

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
	LCS 500-448423/2-A	09/05/2018 16:38	
Leachate Solids	500-150867-5	09/05/2018 16:53	

FORM VIII
PCBS INTERNAL STANDARD HEIGHT AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-150867-2
 SDG No.: _____
 Sample No.: ICIS 500-437467/3 Date Analyzed: 06/19/2018 09:46
 Instrument ID: INST23-24 GC Column: ZB-5 ID: 0.53 (mm)
 Lab File ID (Standard): 060518_173.D Heated Purge: (Y/N) N
 Calibration ID: 28700

	BNB					
	HEIGHT #	RT #	HEIGHT #	RT #	HEIGHT #	RT #
INITIAL CALIBRATION MID-POINT	45433	1.41				
UPPER LIMIT	90866	1.91				
LOWER LIMIT	22717	0.91				
LAB SAMPLE ID	CLIENT SAMPLE ID					
ICV 500-437467/7	45402	1.41				
CCVIS 500-448491/1	49748	1.38				

BNB = 1-Bromo-2-nitrobenzene

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
PCBS INTERNAL STANDARD HEIGHT AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-150867-2
 SDG No.: _____
 Sample No.: CCVIS 500-448491/1 Date Analyzed: 09/05/2018 16:07
 Instrument ID: INST23-24 GC Column: ZB-5 ID: 0.53 (mm)
 Lab File ID (Standard): 082218_455.D Heated Purge: (Y/N) N
 Calibration ID: 28716

	BNB					
	HEIGHT #	RT #	HEIGHT #	RT #	HEIGHT #	RT #
12/24 HOUR STD	49748	1.38				
UPPER LIMIT	99496	1.88				
LOWER LIMIT	24874	0.88				
LAB SAMPLE ID	CLIENT SAMPLE ID					
MB 500-448423/1-A	47523	1.36				
LCS 500-448423/2-A	48480	1.37				
500-150867-5	Leachate Solids	48365	1.36			

BNB = 1-Bromo-2-nitrobenzene

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 X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-150867-2
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 500-448423/2-A
 Instrument ID (1): INST23-24 Instrument ID (2): _____
 Date Analyzed (1): 09/05/2018 16:38 Date Analyzed (2): _____
 GC Column (1): ZB-5 ID: 0.53(mm) GC Column (2): _____ ID: _____

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		
				FROM	TO	PEAK	MEAN	
PCB-1016	1	1	3.81	3.79	3.85	4.25	4.30	
		2	3.98	3.95	4.01	4.24		
		3	4.19	4.17	4.23	4.38		
		4	4.28	4.25	4.31	4.21		
		5	4.73	4.71	4.77	4.39		
PCB-1260	1	1	5.77	5.74	5.80	4.48	4.61	
		2	5.86	5.84	5.90	4.37		
		3	6.25	6.22	6.28	5.20		
		4	6.44	6.41	6.47	4.74		
		5	5.59	5.57	5.63	4.28		

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Chicago Job No.: 500-150867-2
 SDG No.: _____
 Client Sample ID: Leachate Solids Lab Sample ID: 500-150867-5
 Matrix: Solid (ASTM Leach) Lab File ID: 082218_458.D
 Analysis Method: 8082A Date Collected: 08/31/2018 15:55
 Extraction Method: 3510C Date Extracted: 09/05/2018 11:22
 Sample wt/vol: 10 (mL) Date Analyzed: 09/05/2018 16:53
 Con. Extract Vol.: 10.0 (mL) Dilution Factor: 1
 Injection Volume: 1 (uL) GC Column: ZB-5 ID: 0.53 (mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 448491 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD
12674-11-2	PCB-1016	<16		50	16
11104-28-2	PCB-1221	<24		50	24
11141-16-5	PCB-1232	<8.6		50	8.6
53469-21-9	PCB-1242	<12		50	12
12672-29-6	PCB-1248	<10		50	10
11097-69-1	PCB-1254	<10		50	10
11096-82-5	PCB-1260	<11		50	11

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	44		30-120
2051-24-3	DCB Decachlorobiphenyl	49		30-140

TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\GC23-24\20180905-54851.b\082218_458.D
 Lims ID: 500-150867-A-5-D
 Client ID: Leachate Solids
 Sample Type: Client
 Inject. Date: 05-Sep-2018 16:53:28 ALS Bottle#: 0 Worklist Smp#: 4
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: #: dc= Name: 082218,pcb23,500-0054851-004
 Operator ID: hamnerb Instrument ID: INST23-24
 Method: \\ChromNA\Chicago\ChromData\GC23-24\20180905-54851.b\8082IS_23-24.m
 Limit Group: GC_PCB_8082A_IS
 Last Update: 06-Sep-2018 09:18:02 Calib Date: 19-Jun-2018 12:05:44
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Chicago\ChromData\GC23-24\20180619-53137.b\060518_182.D
 Column 1 : ZB-5 (0.53 mm) Det: Ch-A-04091547 05-Sep-2018 16:53:28
 Column 2 : ZB-CLP-Pesticide 2 (0.53 mm) Det: Ch-B-04091548 05-Sep-2018 17:08:51
 Process Host: XAWRK025

First Level Reviewer: hamnerb Date: 06-Sep-2018 09:18:20

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
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* 3 1-Bromo-2-nitrobenzene

1	1.358	1.375	-0.017	48365H	0.0200
2	1.883	1.883	0.000	78074H	0.0200
Average of Peak Amounts =					0.0200

\$ 4 Tetrachloro-m-xylene

1	3.058	3.075	-0.017	64037H	0.0174
2	2.983	2.983	0.000	97596H	0.0192
					RPD = 9.75

6 PCB-1221

1		3.275			ND
1		3.375			
1		3.433			
2		3.317			
2		3.458			
2		3.508			

11 PCB-1232

1		3.458			ND
1		3.842			
1		4.217			
1		4.758			
1		4.992			
2		3.550			
2		3.917			
2		4.283			
2		4.850			
2		5.067			

Data File: \\ChromNA\Chicago\ChromData\GC23-24\20180905-54851.b\082218_458.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
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1 PCB-1016

1	3.817				ND	
1	3.975					
1	4.200					
1	4.283					
1	4.742					
2	3.875					
2	4.250					
2	4.358					
2	4.717					
2	4.808					

14 PCB-1242

1	3.833				ND	
1	4.000					
1	4.217					
1	4.300					
1	4.758					
2	3.917					
2	4.283					
2	4.392					
2	4.850					
2	5.233					

7 PCB-1248

1	4.192				ND	
1	4.733					
1	4.933					
1	5.092					
1	5.417					
2	4.250					
2	4.808					
2	4.992					
2	5.200					
2	5.492					

13 PCB-1254

1	4.967				ND	
1	5.142					
1	5.417					
1	5.600					
1	5.800					
2	5.033					
2	5.158					
2	5.492					
2	5.650					
2	5.900					

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
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15 PCB-1260

1	5.767				ND	
1	5.867					
1	6.250					
1	6.442					
1	5.600					
2	5.633					
2	5.775					
2	5.892					
2	6.467					
2	6.717					

9 PCB-1262

1	5.783				ND	
1	6.458					
1	6.758					
1	7.092					
2	6.500					
2	5.808					
2	6.750					
2	7.150					

8 1260 Res 1

1	6.692				ND	
2	6.350					

2 1260 Res 2

1	6.708				ND	
2	6.392					

16 PCB-1268

1	6.742				ND	
1	6.775					
1	6.983					
1	7.033					
1	7.108					
2	6.758					
2	0.000					
2	6.967					
2	7.058					
2	7.158					

5 1260 Res 3

1	6.767				ND	
2	6.425					

\$ 10 DCB Decachlorobiphenyl

1	7.533	7.542	-0.009	71161H	0.0197	
2	7.525	7.525	0.000	110849H	0.0198	
						RPD = 0.47

S 12 Polychlorinated biphenyls, Total

1	0.000				ND	
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Reagents:

IS8000WRK_00022

Amount Added: 10.00

Units: uL

Run Reagent

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\GC23-24\20180905-54851.b\082218_458.D

Injection Date: 05-Sep-2018 16:53:28

Instrument ID: INST23-24

Operator ID: hamnerb

Lims ID: 500-150867-A-5-D

Lab Sample ID: 500-150867-5

Worklist Smp#: 4

Client ID: Leachate Solids

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

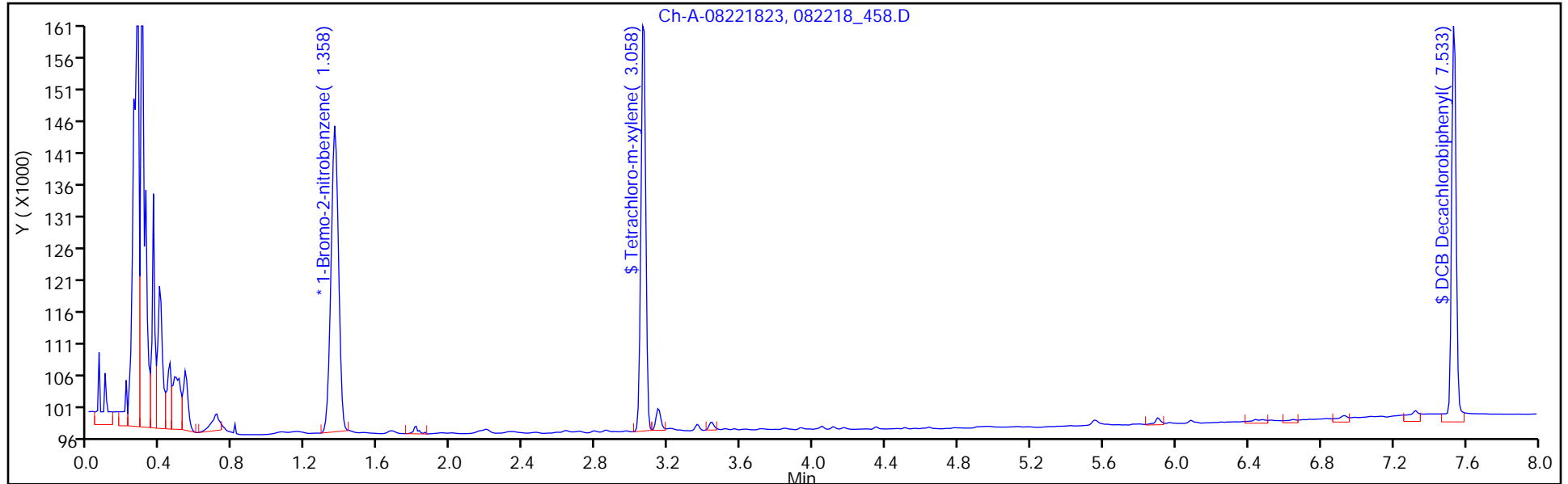
ALS Bottle#: 0

Method: 8082IS_23-24

Limit Group: GC_PCB_8082A_IS

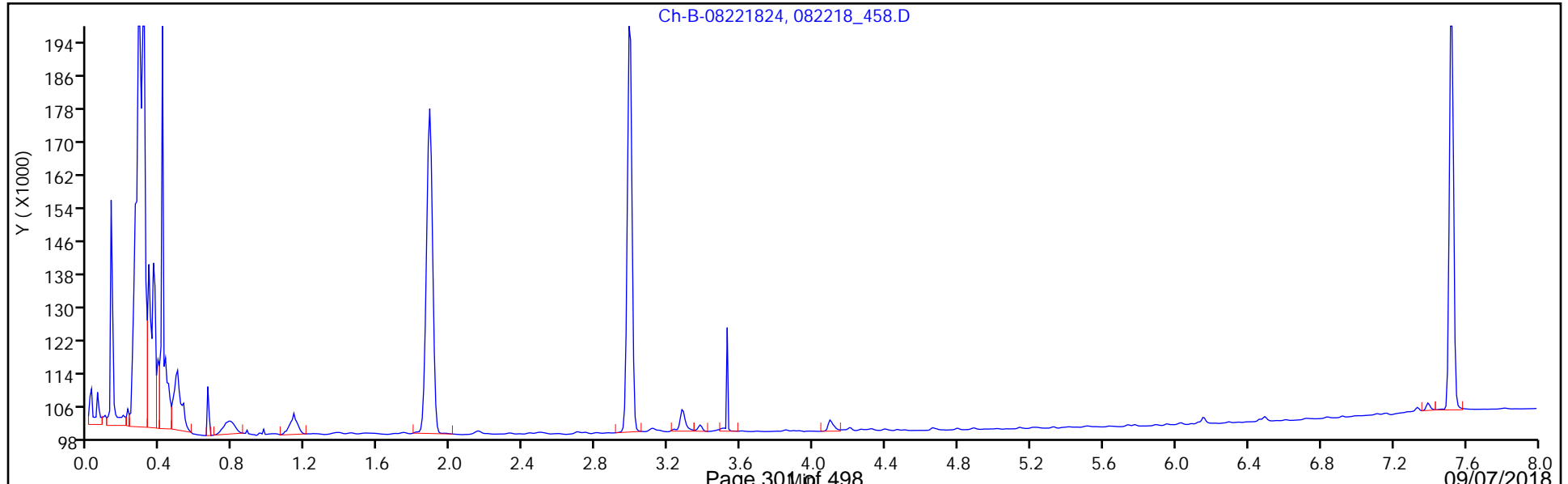
Column: ZB-5 (0.53 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Column: ZB-CLP-Pesticide 2 (0.53 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Chicago
Recovery Report

Data File: \\ChromNA\Chicago\ChromData\GC23-24\20180905-54851.b\082218_458.D
 Lims ID: 500-150867-A-5-D
 Client ID: Leachate Solids
 Sample Type: Client
 Inject. Date: 05-Sep-2018 16:53:28 ALS Bottle#: 0 Worklist Smp#: 4
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: #: dc= Name: 082218,pcb23,500-0054851-004
 Operator ID: hamnerb Instrument ID: INST23-24
 Method: \\ChromNA\Chicago\ChromData\GC23-24\20180905-54851.b\8082IS_23-24.m
 Limit Group: GC_PCB_8082A_IS
 Last Update: 06-Sep-2018 09:18:02 Calib Date: 19-Jun-2018 12:05:44
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Chicago\ChromData\GC23-24\20180619-53137.b\060518_182.D
 Column 1 : ZB-5 (0.53 mm) Det: Ch-A-04091547 05-Sep-2018 16:53:28
 Column 2 : ZB-CLP-Pesticide 2 (0.53 mm) Det: Ch-B-04091548 05-Sep-2018 17:08:51
 Process Host: XAWRK025
 First Level Reviewer: hamnerb Date: 06-Sep-2018 09:18:20

Surrogate Recovery, Detector: Ch-A-04091547

Compound	Amount Added	Amount Recovered	% Rec.
\$ 4 Tetrachloro-m-xylene	0.0400	0.0174	43.60
\$ 10 DCB Decachlorobiphenyl	0.0400	0.0197	49.21

Surrogate Recovery, Detector: Ch-B-04091548

Compound	Amount Added	Amount Recovered	% Rec.
\$ 4 Tetrachloro-m-xylene	0.0400	0.0192	48.07
\$ 10 DCB Decachlorobiphenyl	0.0400	0.0198	49.44

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Chicago Job No.: 500-150867-2 Analy Batch No.: 437467

SDG No.: _____

Instrument ID: INST23-24 GC Column: ZB-5 ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/19/2018 09:16 Calibration End Date: 06/19/2018 10:33 Calibration ID: 28700

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 500-437467/6	060518_176.D
Level 2	IC 500-437467/5	060518_175.D
Level 3	IC 500-437467/4	060518_174.D
Level 4	ICIS 500-437467/3	060518_173.D
Level 5	IC 500-437467/2	060518_172.D
Level 6	IC 500-437467/1	060518_171.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
PCB-1016 Peak 1	0.0429 0.0338	0.0411	0.0379	0.0361	0.0359	Ave		0.0379			9.1		20.0				
PCB-1016 Peak 2	0.0417 0.0337	0.0399	0.0369	0.0355	0.0355	Ave		0.0372			8.1		20.0				
PCB-1016 Peak 3	0.1063 0.0939	0.1010	0.0981	0.0978	0.0927	Ave		0.0983			5.0		20.0				
PCB-1016 Peak 4	0.0540 0.0449	0.0491	0.0473	0.0466	0.0444	Ave		0.0477			7.3		20.0				
PCB-1016 Peak 5	0.0451 0.0393	0.0439	0.0421	0.0409	0.0400	Ave		0.0419			5.5		20.0				
PCB-1260 Peak 5	0.0911 0.0754	0.0885	0.0819	0.0818	0.0800	Ave		0.0831			6.9		20.0				
PCB-1260 Peak 1	0.1007 0.0897	0.0987	0.0914	0.0902	0.0893	Ave		0.0933			5.4		20.0				
PCB-1260 Peak 2	0.0522 0.0439	0.0528	0.0494	0.0483	0.0478	Ave		0.0491			6.6		20.0				
PCB-1260 Peak 3	0.0702 0.0567	0.0698	0.0653	0.0621	0.0633	Ave		0.0646			7.8		20.0				
PCB-1260 Peak 4	0.1739 0.1586	0.1711	0.1620	0.1642	0.1569	Ave		0.1644			4.1		20.0				
1260 Res 1	0.0958 0.0799	0.0925	0.0879	0.0861	0.0842	Ave		0.0877			6.5		20.0				
1260 Res 2	0.0412 0.0293	0.0399	0.0352	0.0338	0.0340	Ave		0.0356			12.3		20.0				
1260 Res 3	0.0513 0.0417	0.0457	0.0427	0.0425	0.0405	Ave		0.0441			8.9		20.0				
Tetrachloro-m-xylene	1.5811 1.4230	1.5774	1.5582	1.5303	1.4408	Ave		1.5185			4.6		20.0				
DCB Decachlorobiphenyl	1.6653 1.4209	1.5477	1.4695	1.4624	1.4036	Ave		1.4949			6.5		20.0				

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Chicago Job No.: 500-150867-2 Analy Batch No.: 437467

SDG No.: _____

Instrument ID: INST23-24 GC Column: ZB-5 ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/19/2018 09:16 Calibration End Date: 06/19/2018 10:33 Calibration ID: 28700

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 500-437467/6	060518_176.D
Level 2	IC 500-437467/5	060518_175.D
Level 3	IC 500-437467/4	060518_174.D
Level 4	ICIS 500-437467/3	060518_173.D
Level 5	IC 500-437467/2	060518_172.D
Level 6	IC 500-437467/1	060518_171.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
PCB-1016 Peak 1	BNB	Ave	3924 79808	8979	21236	40958	59256	0.0400 1.00	0.100	0.250	0.500	0.750
PCB-1016 Peak 2	BNB	Ave	3809 79604	8718	20717	40314	58715	0.0400 1.00	0.100	0.250	0.500	0.750
PCB-1016 Peak 3	BNB	Ave	9719 221902	22080	55062	111128	153153	0.0400 1.00	0.100	0.250	0.500	0.750
PCB-1016 Peak 4	BNB	Ave	4932 106184	10740	26563	52935	73392	0.0400 1.00	0.100	0.250	0.500	0.750
PCB-1016 Peak 5	BNB	Ave	4124 92819	9598	23635	46449	66046	0.0400 1.00	0.100	0.250	0.500	0.750
PCB-1260 Peak 5	BNB	Ave	8324 178204	19352	45954	92886	132155	0.0400 1.00	0.100	0.250	0.500	0.750
PCB-1260 Peak 1	BNB	Ave	9206 211952	21570	51248	102421	147485	0.0400 1.00	0.100	0.250	0.500	0.750
PCB-1260 Peak 2	BNB	Ave	4770 103743	11535	27704	54914	79038	0.0400 1.00	0.100	0.250	0.500	0.750
PCB-1260 Peak 3	BNB	Ave	6415 134108	15248	36642	70520	104585	0.0400 1.00	0.100	0.250	0.500	0.750
PCB-1260 Peak 4	BNB	Ave	15892 374976	37412	90869	186462	259137	0.0400 1.00	0.100	0.250	0.500	0.750
1260 Res 1	BNB	Ave	8753 188967	20217	49304	97819	139145	0.0400 1.00	0.100	0.250	0.500	0.750
1260 Res 2	BNB	Ave	3764 69264	8719	19763	38428	56101	0.0400 1.00	0.100	0.250	0.500	0.750
1260 Res 3	BNB	Ave	4692 98625	9988	23981	48315	66915	0.0400 1.00	0.100	0.250	0.500	0.750
Tetrachloro-m-xylene	BNB	Ave	14452 269085	27585	69932	139050	190409	0.00400 0.0800	0.00800	0.0200	0.0400	0.0600
DCB Decachlorobiphenyl	BNB	Ave	15221 268686	27065	65949	132878	185497	0.00400 0.0800	0.00800	0.0200	0.0400	0.0600

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Chicago Job No.: 500-150867-2 Analy Batch No.: 437467

SDG No.: _____

Instrument ID: INST23-24 GC Column: ZB-5 ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/19/2018 09:16 Calibration End Date: 06/19/2018 10:33 Calibration ID: 28700

Curve Type Legend:

TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\GC23-24\20180619-53137.b\060518_171.D
 Lims ID: IC AR16606
 Client ID:
 Sample Type: IC Calib Level: 6
 Inject. Date: 19-Jun-2018 09:16:08 ALS Bottle#: 0 Worklist Smp#: 1
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: #: dc= Name: 060518,pcb23,500-0053137-001
 Operator ID: hamnerb Instrument ID: INST23-24
 Sublist: chrom-8082IS_23-24*sub2
 Method: \\ChromNA\Chicago\ChromData\GC23-24\20180619-53137.b\8082IS_23-24.m
 Limit Group: GC_PCB_8082A_IS
 Last Update: 19-Jun-2018 16:11:55 Calib Date: 19-Jun-2018 12:05:44
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Chicago\ChromData\GC23-24\20180619-53137.b\060518_182.D
 Column 1 : ZB-5 (0.53 mm) Det: Ch-A-04091547 19-Jun-2018 09:16:08
 Column 2 : ZB-CLP-Pesticide 2 (0.53 mm) Det: Ch-B-04091548 19-Jun-2018 09:31:29
 Process Host: XAWRK028

First Level Reviewer: hamnerb Date: 19-Jun-2018 11:07:31

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
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* 3 1-Bromo-2-nitrobenzene
 1 1.425 1.408 0.017 47273H 0.0200 0.0200
 2 1.917 1.917 0.000 81416H 0.0200 0.0200
 Average of Peak Amounts = 0.0200

\$ 4 Tetrachloro-m-xylene
 1 3.100 3.092 0.008 269085H 0.0800 0.0750
 2 3.025 3.025 0.000 406495H 0.0800 0.0768
 RPD = 2.40

1 PCB-1016
 1 3.850 3.842 0.008 79808H 1.00 0.8903
 1 4.008 4.000 0.008 79604H 1.00 0.9053
 1 4.225 4.217 0.008 221902H 1.00 0.9549
 1 4.308 4.300 0.008 106184H 1.00 0.9412
 1 4.767 4.758 0.009 92819H 1.00 0.9376
 Average of Peak Amounts = 0.9258
 2 3.917 3.917 0.000 132960H 1.00 0.8971
 2 4.283 4.283 0.000 314396H 1.00 0.9329
 2 4.392 4.392 0.000 155800H 1.00 0.9236
 2 4.758 4.758 0.000 128601H 1.00 0.9227
 2 4.850 4.850 0.000 126239H 1.00 0.9371
 Average of Peak Amounts = 0.9227
 RPD = 0.34

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
-----	-----------	---------------	---------------	----------	---------------	-----------------	-------

15 PCB-1260

1	5.792	5.783	0.009	211952H	1.00	0.9610
1	5.883	5.883	0.000	103743H	1.00	0.8945
1	6.275	6.275	0.000	134108H	1.00	0.8788
1	6.467	6.458	0.009	374976H	1.00	0.9647
1	5.625	5.617	0.008	178204H	1.00	0.9071

Average of Peak Amounts = 0.9212

2	5.667	5.667	0.000	249968H	1.00	0.9103
2	5.808	5.808	0.000	335768H	1.00	0.9274
2	5.925	5.925	0.000	277931H	1.00	0.9280
2	6.500	6.500	0.000	591692H	1.00	0.9610
2	6.758	6.758	0.000	335972H	1.00	0.9386

Average of Peak Amounts = 0.9330

RPD = 1.28

8 1260 Res 1

1	6.675	6.667	0.008	188967H	1.00	0.9112
2	6.333	6.333	0.000	244889H	1.00	0.9369

RPD = 2.79

2 1260 Res 2

1	6.733	6.725	0.008	69264H	1.00	0.8239
2	6.383	6.383	0.000	115359H	1.00	0.9306

RPD = 12.16

5 1260 Res 3

1	6.767	6.758	0.009	98625H	1.00	0.9464
2	6.425	0.000	6.425	110999H	1.00	0.9607

RPD = 1.50

\$ 10 DCB Decachlorobiphenyl

1	7.567	7.558	0.009	268686H	0.0800	0.0760
2	7.567	7.567	0.000	439927H	0.0800	0.0753

RPD = 1.02

S 12 Polychlorinated biphenyls, Total

1						0.9258
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Average of Peak Amounts = 0.9258

Reagents:

AR1660-6_00038

Amount Added: 1.00

Units: mL

IS8000WRK_00022

Amount Added: 10.00

Units: uL

Run Reagent

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\GC23-24\20180619-53137.b\060518_171.D

Injection Date: 19-Jun-2018 09:16:08

Instrument ID: INST23-24

Operator ID: hamnerb

Lims ID: IC AR16606

Worklist Smp#: 1

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

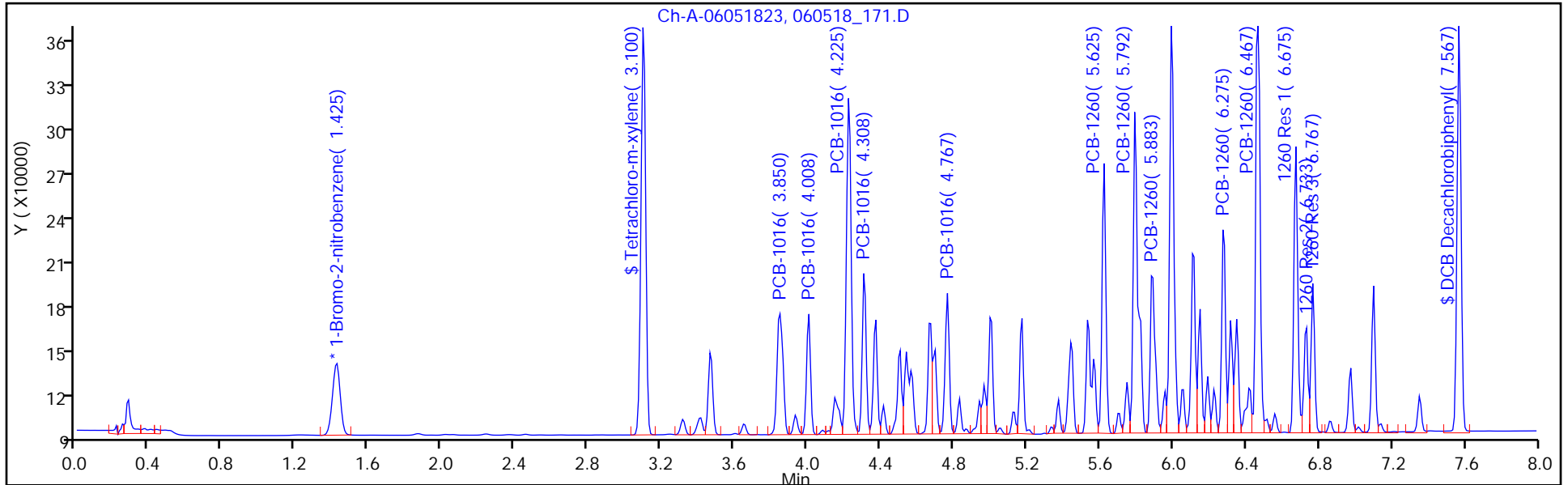
ALS Bottle#: 0

Method: 8082IS_23-24

Limit Group: GC_PCB_8082A_IS

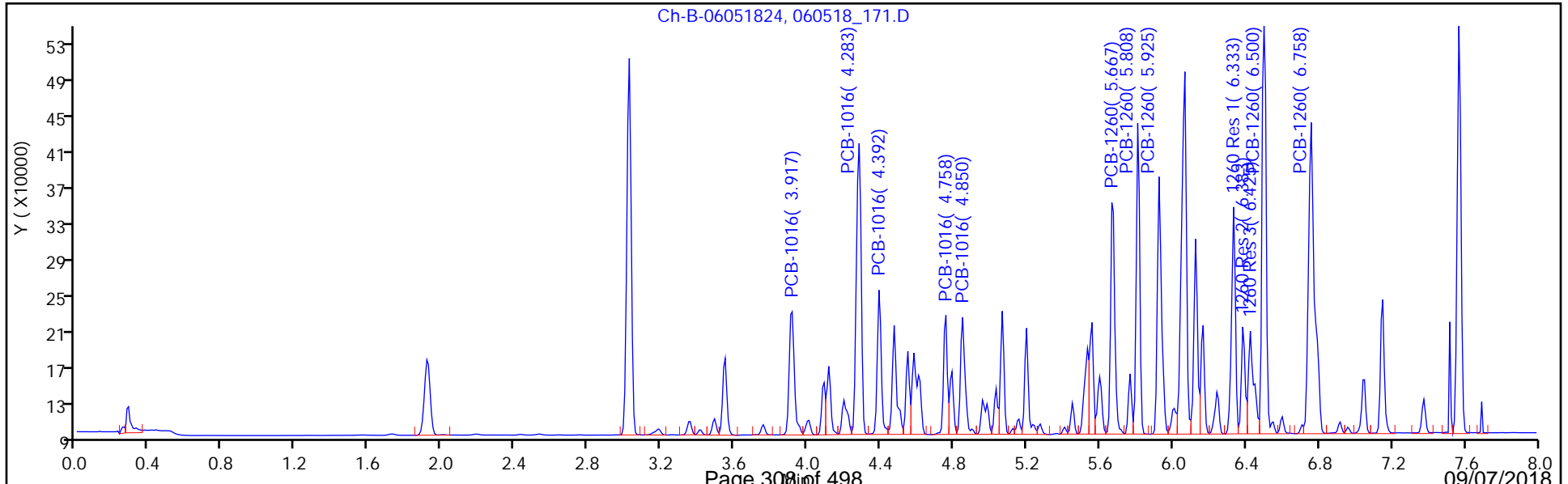
Column: ZB-5 (0.53 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Column: ZB-CLP-Pesticide 2 (0.53 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\GC23-24\20180619-53137.b\060518_172.D
 Lims ID: IC AR16605
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 19-Jun-2018 09:31:29 ALS Bottle#: 0 Worklist Smp#: 2
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: #: dc= Name: 060518,pcb23,500-0053137-002
 Operator ID: hamnerb Instrument ID: INST23-24
 Sublist: chrom-8082IS_23-24*sub2
 Method: \\ChromNA\Chicago\ChromData\GC23-24\20180619-53137.b\8082IS_23-24.m
 Limit Group: GC_PCB_8082A_IS
 Last Update: 19-Jun-2018 16:11:57 Calib Date: 19-Jun-2018 12:05:44
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Chicago\ChromData\GC23-24\20180619-53137.b\060518_182.D
 Column 1 : ZB-5 (0.53 mm) Det: Ch-A-04091547 19-Jun-2018 09:31:29
 Column 2 : ZB-CLP-Pesticide 2 (0.53 mm) Det: Ch-B-04091548 19-Jun-2018 09:46:51
 Process Host: XAWRK028

First Level Reviewer: hamnerb Date: 19-Jun-2018 11:07:39

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
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* 3 1-Bromo-2-nitrobenzene

1	1.408	1.408	0.000	44053H	0.0200	0.0200	
2	1.917	1.917	0.000	77909H	0.0200	0.0200	
Average of Peak Amounts =						0.0200	

\$ 4 Tetrachloro-m-xylene

1	3.092	3.092	0.000	190409H	0.0600	0.0569	
2	3.025	3.025	0.000	299203H	0.0600	0.0591	
						RPD = 3.69	

1 PCB-1016

1	3.842	3.842	0.000	59256H	0.7500	0.7093	
1	4.000	4.000	0.000	58715H	0.7500	0.7166	
1	4.217	4.217	0.000	153153H	0.7500	0.7072	
1	4.300	4.300	0.000	73392H	0.7500	0.6981	
1	4.758	4.758	0.000	66046H	0.7500	0.7159	
Average of Peak Amounts =						0.7094	
2	3.917	3.917	0.000	104036H	0.7500	0.7336	
2	4.283	4.283	0.000	242258H	0.7500	0.7512	
2	4.392	4.392	0.000	119352H	0.7500	0.7394	
2	4.758	4.758	0.000	99273H	0.7500	0.7444	
2	4.850	4.850	0.000	95448H	0.7500	0.7405	
Average of Peak Amounts =						0.7418	
						RPD = 4.46	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
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15 PCB-1260

1	5.792	5.792	0.000	147485H	0.7500	0.7176	
1	5.883	5.883	0.000	79038H	0.7500	0.7313	
1	6.275	6.275	0.000	104585H	0.7500	0.7354	
1	6.458	6.458	0.000	259137H	0.7500	0.7154	
1	5.617	5.617	0.000	132155H	0.7500	0.7219	

Average of Peak Amounts = 0.7243

2	5.667	5.667	0.000	194298H	0.7500	0.7394	
2	5.808	5.808	0.000	259818H	0.7500	0.7499	
2	5.925	5.925	0.000	211837H	0.7500	0.7392	
2	6.500	6.500	0.000	443476H	0.7500	0.7527	
2	6.758	6.758	0.000	251950H	0.7500	0.7355	

Average of Peak Amounts = 0.7433

RPD = 2.59

8 1260 Res 1

1	6.667	6.667	0.000	139145H	0.7500	0.7200	
2	6.333	6.333	0.000	183026H	0.7500	0.7318	

RPD = 1.62

2 1260 Res 2

1	6.725	6.725	0.000	56101H	0.7500	0.7161	
2	6.383	6.383	0.000	88241H	0.7500	0.7439	

RPD = 3.80

5 1260 Res 3

1	6.767	6.767	0.000	66915H	0.7500	0.6890	
2	6.425	6.425	0.000	84088H	0.7500	0.7605	

RPD = 9.87

\$ 10 DCB Decachlorobiphenyl

1	7.567	7.567	0.000	185497H	0.0600	0.0563	
2	7.567	7.567	0.000	320980H	0.0600	0.0574	

RPD = 1.85

Reagents:

AR1660-5_00034

Amount Added: 1.00

Units: mL

IS8000WRK_00022

Amount Added: 10.00

Units: uL

Run Reagent

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\GC23-24\20180619-53137.b\060518_172.D

Injection Date: 19-Jun-2018 09:31:29

Instrument ID: INST23-24

Operator ID: hamnerb

Lims ID: IC AR16605

Worklist Smp#: 2

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

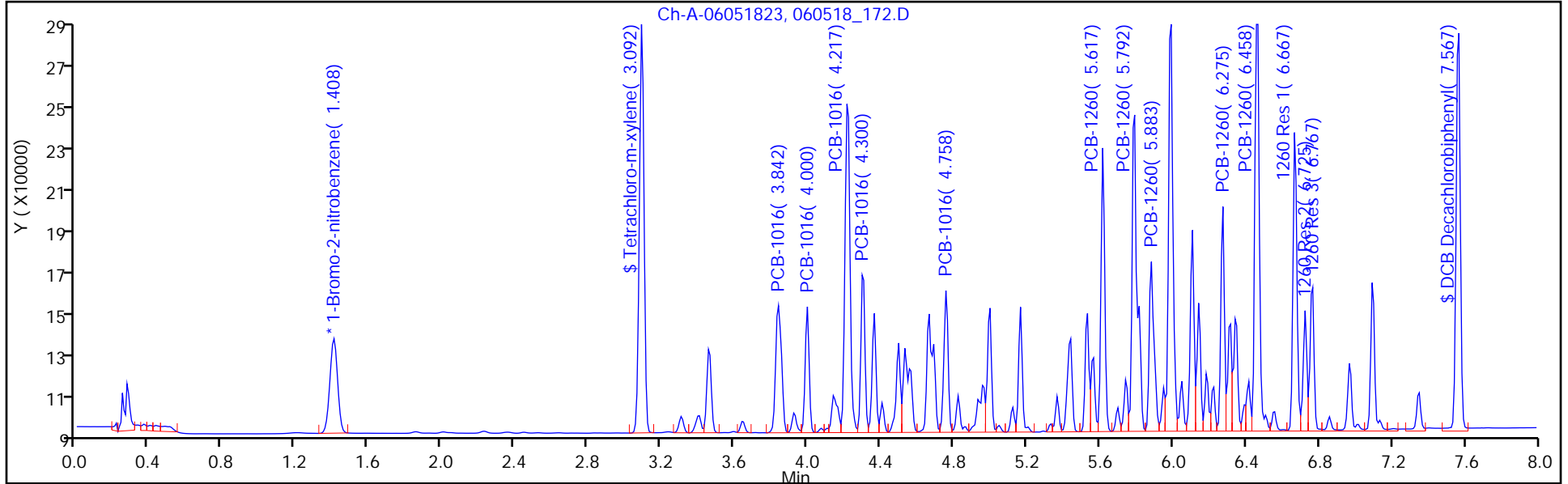
ALS Bottle#: 0

Method: 8082IS_23-24

Limit Group: GC_PCB_8082A_IS

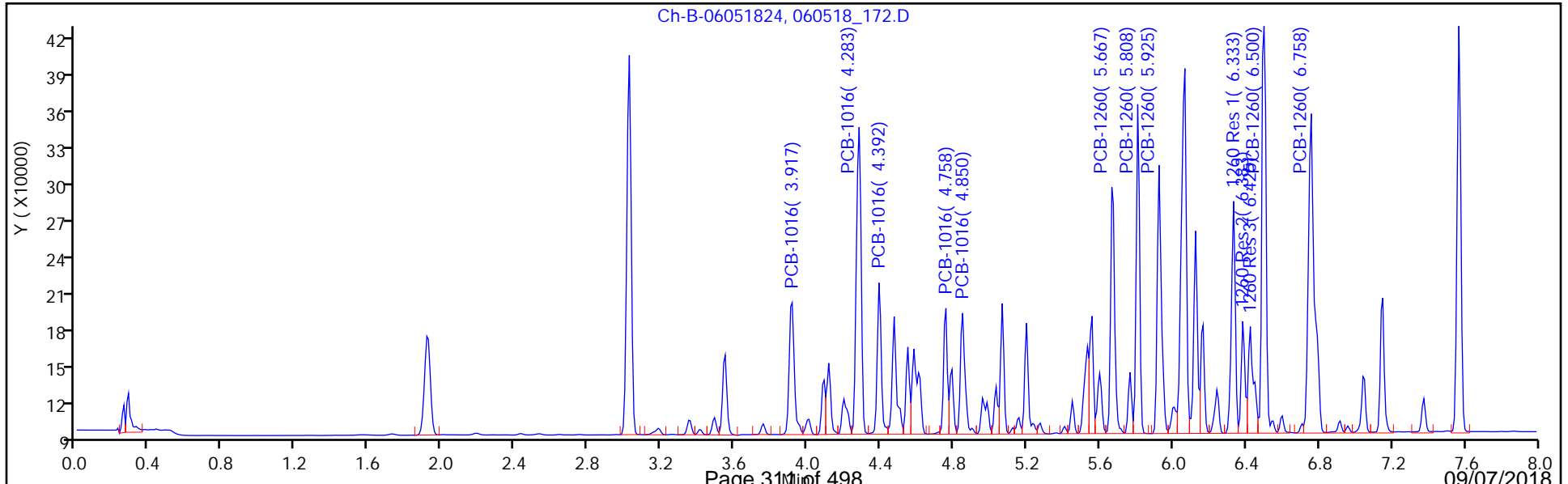
Column: ZB-5 (0.53 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Column: ZB-CLP-Pesticide 2 (0.53 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\GC23-24\20180619-53137.b\060518_173.D
 Lims ID: ICIS
 Client ID:
 Sample Type: ICIS Calib Level: 4
 Inject. Date: 19-Jun-2018 09:46:51 ALS Bottle#: 0 Worklist Smp#: 3
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: #: dc= Name: 060518,pcb23,500-0053137-003
 Operator ID: hamnerb Instrument ID: INST23-24
 Sublist: chrom-8082IS_23-24*sub2
 Method: \\ChromNA\Chicago\ChromData\GC23-24\20180619-53137.b\8082IS_23-24.m
 Limit Group: GC_PCB_8082A_IS
 Last Update: 19-Jun-2018 16:11:58 Calib Date: 19-Jun-2018 12:05:44
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Chicago\ChromData\GC23-24\20180619-53137.b\060518_182.D
 Column 1 : ZB-5 (0.53 mm) Det: Ch-A-04091547 19-Jun-2018 09:46:51
 Column 2 : ZB-CLP-Pesticide 2 (0.53 mm) Det: Ch-B-04091548 19-Jun-2018 10:02:14
 Process Host: XAWRK028

First Level Reviewer: hamnerb Date: 19-Jun-2018 11:07:47

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
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* 3 1-Bromo-2-nitrobenzene

1	1.408	1.408	0.000	45433H	0.0200	0.0200	
2	1.917	1.917	0.000	79824H	0.0200	0.0200	
Average of Peak Amounts =						0.0200	

\$ 4 Tetrachloro-m-xylene

1	3.092	3.092	0.000	139050H	0.0400	0.0403	
2	3.025	3.025	0.000	208658H	0.0400	0.0402	
						RPD = 0.26	

1 PCB-1016

1	3.842	3.842	0.000	40958H	0.5000	0.4754	
1	4.000	4.000	0.000	40314H	0.5000	0.4771	
1	4.217	4.217	0.000	111128H	0.5000	0.4976	
1	4.300	4.300	0.000	52935H	0.5000	0.4882	
1	4.758	4.758	0.000	46449H	0.5000	0.4882	
Average of Peak Amounts =						0.4853	
2	3.917	3.917	0.000	71768H	0.5000	0.4939	
2	4.283	4.283	0.000	164783H	0.5000	0.4987	
2	4.392	4.392	0.000	83859H	0.5000	0.5071	
2	4.758	4.758	0.000	67556H	0.5000	0.4944	
2	4.850	4.850	0.000	65487H	0.5000	0.4958	
Average of Peak Amounts =						0.4980	
						RPD = 2.58	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
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15 PCB-1260

1	5.783	5.783	0.000	102421H	0.5000	0.4832	
1	5.883	5.883	0.000	54914H	0.5000	0.4926	
1	6.275	6.275	0.000	70520H	0.5000	0.4808	
1	6.458	6.458	0.000	186462H	0.5000	0.4991	
1	5.617	5.617	0.000	92886H	0.5000	0.4920	

Average of Peak Amounts = 0.4895

2	5.667	5.667	0.000	133002H	0.5000	0.4940	
2	5.808	5.808	0.000	177103H	0.5000	0.4989	
2	5.925	5.925	0.000	146620H	0.5000	0.4993	
2	6.500	6.500	0.000	303032H	0.5000	0.5020	
2	6.758	6.758	0.000	175831H	0.5000	0.5010	

Average of Peak Amounts = 0.4990

RPD = 1.92

8 1260 Res 1

1	6.667	6.667	0.000	97819H	0.5000	0.4908	
2	6.333	6.333	0.000	128206H	0.5000	0.5003	

RPD = 1.92

2 1260 Res 2

1	6.725	6.725	0.000	38428H	0.5000	0.4756	
2	6.383	6.383	0.000	61812H	0.5000	0.5086	

RPD = 6.69

5 1260 Res 3

1	6.758	6.758	0.000	48315H	0.5000	0.4824	
2	6.425	6.425	0.000	57256H	0.5000	0.5054	

RPD = 4.66

\$ 10 DCB Decachlorobiphenyl

1	7.558	7.558	0.000	132878H	0.0400	0.0391	
2	7.567	7.567	0.000	226901H	0.0400	0.0396	

RPD = 1.18

Reagents:

AR1660-4(608)_00018

Amount Added: 1.00

Units: mL

IS8000WRK_00022

Amount Added: 10.00

Units: uL

Run Reagent

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\GC23-24\20180619-53137.b\060518_173.D

Injection Date: 19-Jun-2018 09:46:51

Instrument ID: INST23-24

Operator ID: hamnerb

Lims ID: ICIS

Worklist Smp#: 3

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

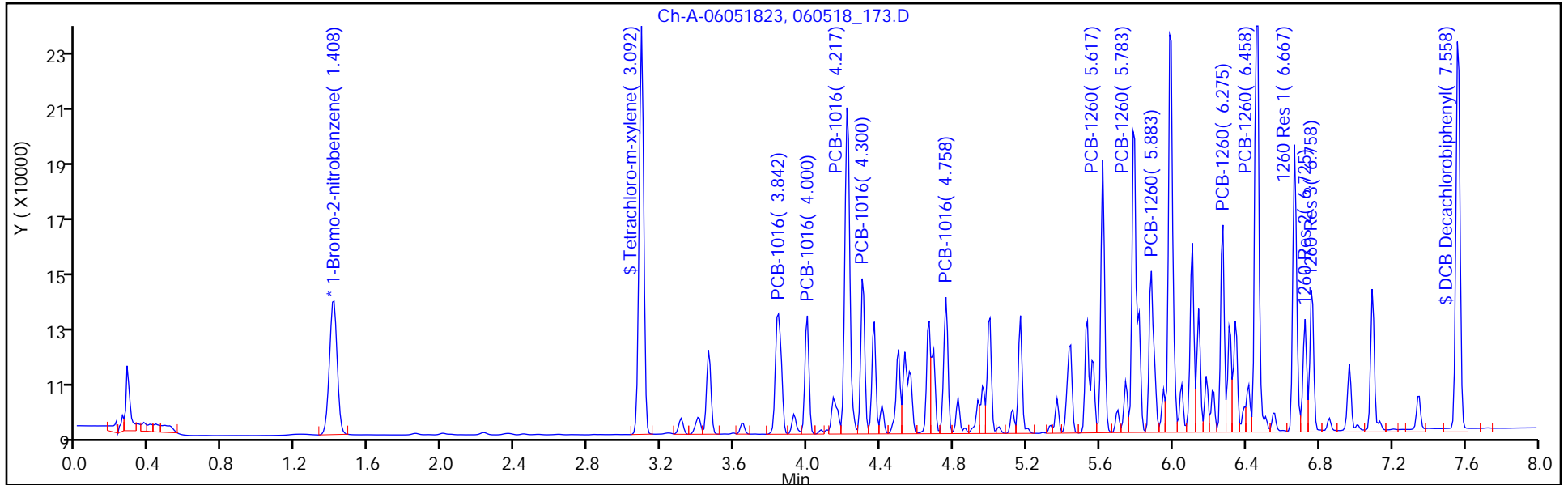
ALS Bottle#: 0

Method: 8082IS_23-24

Limit Group: GC_PCB_8082A_IS

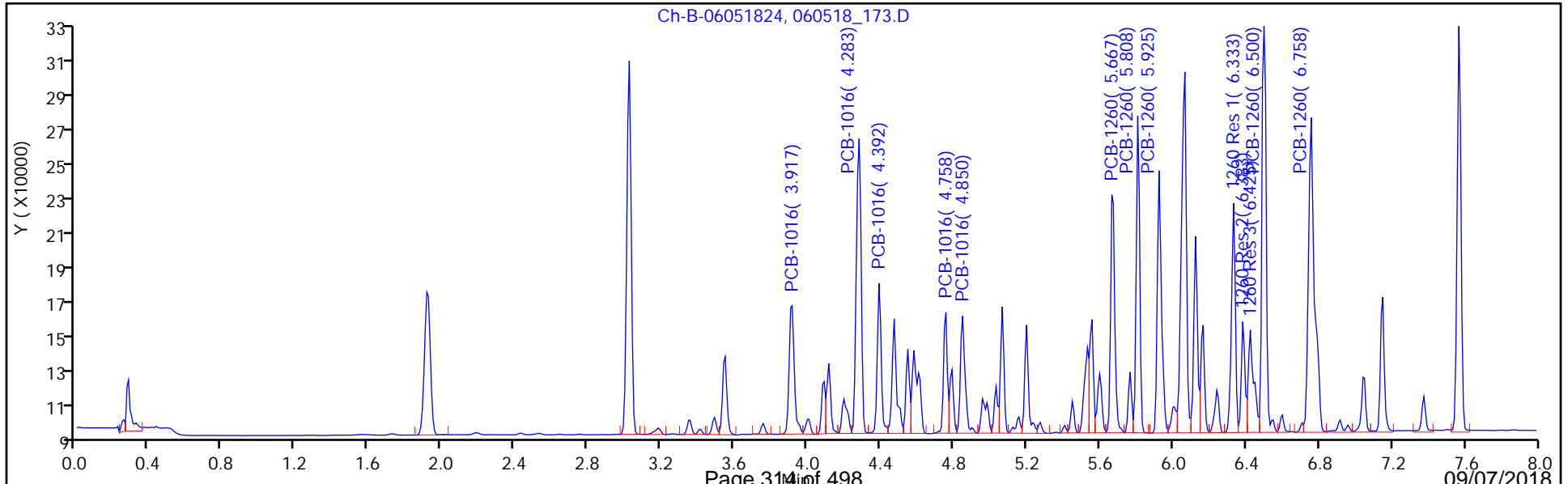
Column: ZB-5 (0.53 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Column: ZB-CLP-Pesticide 2 (0.53 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\GC23-24\20180619-53137.b\060518_174.D
 Lims ID: IC AR 16603
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 19-Jun-2018 10:02:14 ALS Bottle#: 0 Worklist Smp#: 4
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: #: dc= Name: 060518,pcb23,500-0053137-004
 Operator ID: hamnerb Instrument ID: INST23-24
 Sublist: chrom-8082IS_23-24*sub2
 Method: \\ChromNA\Chicago\ChromData\GC23-24\20180619-53137.b\8082IS_23-24.m
 Limit Group: GC_PCB_8082A_IS
 Last Update: 19-Jun-2018 16:12:00 Calib Date: 19-Jun-2018 12:05:44
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Chicago\ChromData\GC23-24\20180619-53137.b\060518_182.D
 Column 1 : ZB-5 (0.53 mm) Det: Ch-A-04091547 19-Jun-2018 10:02:14
 Column 2 : ZB-CLP-Pesticide 2 (0.53 mm) Det: Ch-B-04091548 19-Jun-2018 10:17:51
 Process Host: XAWRK028

First Level Reviewer: hamnerb Date: 19-Jun-2018 11:07:54

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
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* 3 1-Bromo-2-nitrobenzene

1	1.408	1.408	0.000	44880H	0.0200	0.0200	
2	1.917	1.917	0.000	80217H	0.0200	0.0200	
Average of Peak Amounts =						0.0200	

\$ 4 Tetrachloro-m-xylene

1	3.092	3.092	0.000	69932H	0.0200	0.0205	
2	3.025	3.025	0.000	105446H	0.0200	0.0202	
						RPD = 1.50	

1 PCB-1016

1	3.842	3.842	0.000	21236H	0.2500	0.2495	
1	4.000	4.000	0.000	20717H	0.2500	0.2482	
1	4.217	4.217	0.000	55062H	0.2500	0.2496	
1	4.300	4.300	0.000	26563H	0.2500	0.2480	
1	4.758	4.758	0.000	23635H	0.2500	0.2515	
Average of Peak Amounts =						0.2493	
2	3.917	3.917	0.000	36974H	0.2500	0.2532	
2	4.283	4.283	0.000	82793H	0.2500	0.2494	
2	4.392	4.392	0.000	41625H	0.2500	0.2505	
2	4.758	4.758	0.000	34676H	0.2500	0.2525	
2	4.850	4.850	0.000	33310H	0.2500	0.2510	
Average of Peak Amounts =						0.2513	
						RPD = 0.78	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
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15 PCB-1260

1	5.792	5.792	0.000	51248H	0.2500	0.2447	
1	5.883	5.883	0.000	27704H	0.2500	0.2516	
1	6.275	6.275	0.000	36642H	0.2500	0.2529	
1	6.458	6.458	0.000	90869H	0.2500	0.2462	
1	5.617	5.617	0.000	45954H	0.2500	0.2464	

Average of Peak Amounts = 0.2484

2	5.667	5.667	0.000	67585H	0.2500	0.2498	
2	5.808	5.808	0.000	90669H	0.2500	0.2542	
2	5.925	5.925	0.000	74646H	0.2500	0.2530	
2	6.500	6.500	0.000	151002H	0.2500	0.2489	
2	6.758	6.758	0.000	88111H	0.2500	0.2498	

Average of Peak Amounts = 0.2511

RPD = 1.10

8 1260 Res 1

1	6.667	6.667	0.000	49304H	0.2500	0.2504	
2	6.333	6.333	0.000	65345H	0.2500	0.2537	

RPD = 1.32

2 1260 Res 2

1	6.725	6.725	0.000	19763H	0.2500	0.2476	
2	6.383	6.383	0.000	30842H	0.2500	0.2525	

RPD = 1.96

5 1260 Res 3

1	6.758	6.758	0.000	23981H	0.2500	0.2424	
2	6.425	6.425	0.000	28988H	0.2500	0.2546	

RPD = 4.93

\$ 10 DCB Decachlorobiphenyl

1	7.558	7.558	0.000	65949H	0.0200	0.0197	
2	7.567	7.567	0.000	117100H	0.0200	0.0203	

RPD = 3.37

S 12 Polychlorinated biphenyls, Total

1						0.2493	
						Average of Peak Amounts =	0.2493

Reagents:

AR1660-3_00034

Amount Added: 1.00

Units: mL

IS8000WRK_00022

Amount Added: 10.00

Units: uL

Run Reagent

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\GC23-24\20180619-53137.b\060518_174.D

Injection Date: 19-Jun-2018 10:02:14

Instrument ID: INST23-24

Operator ID: hamnerb

Lims ID: IC AR 16603

Worklist Smp#: 4

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

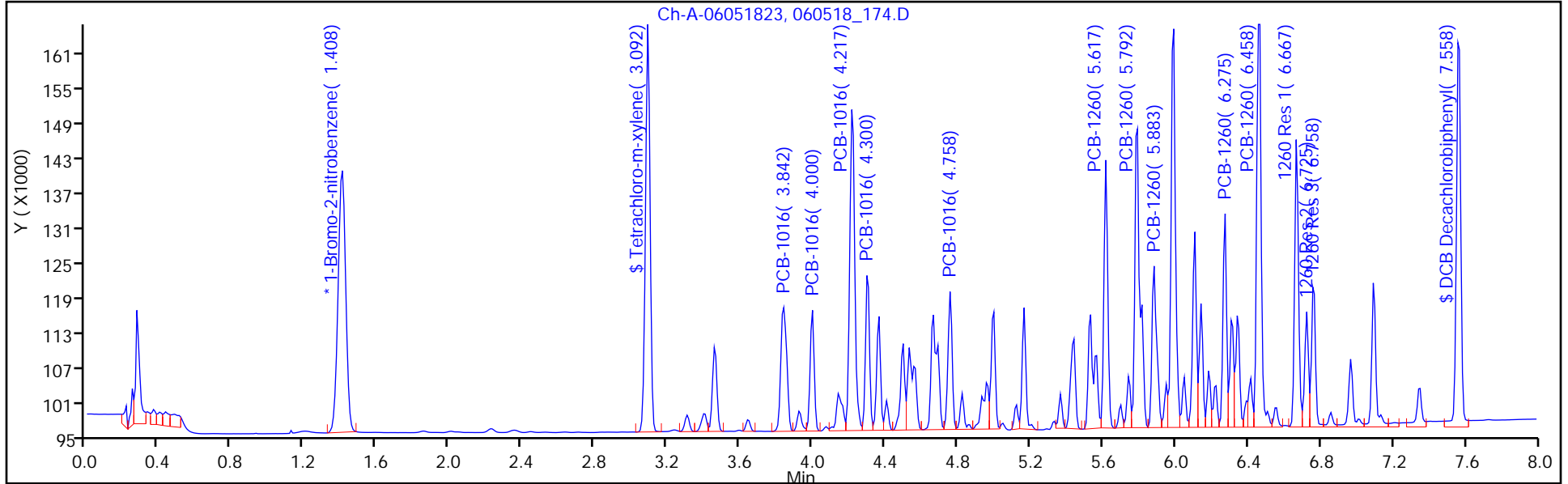
ALS Bottle#: 0

Method: 8082IS_23-24

Limit Group: GC_PCB_8082A_IS

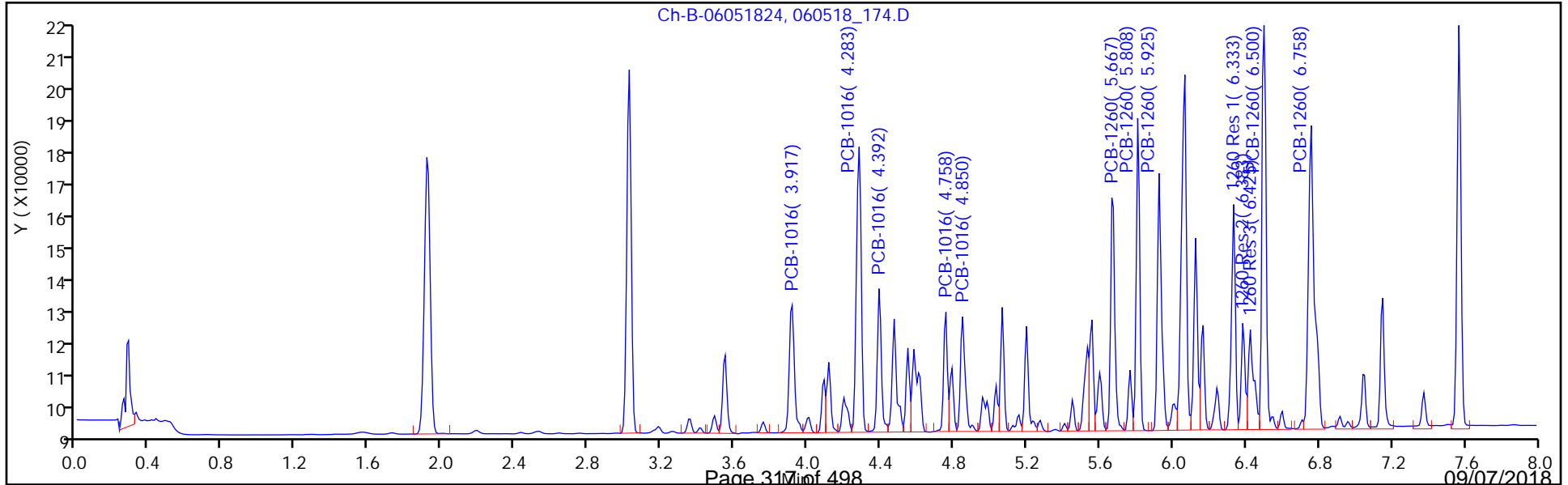
Column: ZB-5 (0.53 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Column: ZB-CLP-Pesticide 2 (0.53 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\GC23-24\20180619-53137.b\060518_175.D
 Lims ID: IC AR16602
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 19-Jun-2018 10:17:51 ALS Bottle#: 0 Worklist Smp#: 5
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: #: dc= Name: 060518,pcb23,500-0053137-005
 Operator ID: hamnerb Instrument ID: INST23-24
 Sublist: chrom-8082IS_23-24*sub2
 Method: \\ChromNA\Chicago\ChromData\GC23-24\20180619-53137.b\8082IS_23-24.m
 Limit Group: GC_PCB_8082A_IS
 Last Update: 19-Jun-2018 16:12:03 Calib Date: 19-Jun-2018 12:05:44
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Chicago\ChromData\GC23-24\20180619-53137.b\060518_182.D
 Column 1 : ZB-5 (0.53 mm) Det: Ch-A-04091547 19-Jun-2018 10:17:51
 Column 2 : ZB-CLP-Pesticide 2 (0.53 mm) Det: Ch-B-04091548 19-Jun-2018 10:33:13
 Process Host: XAWRK028

First Level Reviewer: hamnerb Date: 19-Jun-2018 11:08:02

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
-----	-----------	---------------	---------------	----------	---------------	-----------------	-------

* 3 1-Bromo-2-nitrobenzene

1	1.408	1.408	0.000	43719H	0.0200	0.0200	
2	1.917	1.917	0.000	80229H	0.0200	0.0200	
Average of Peak Amounts =						0.0200	

\$ 4 Tetrachloro-m-xylene

1	3.092	3.092	0.000	27585H	0.008000	0.008310	
2	3.025	3.025	0.000	42978H	0.008000	0.008239	
						RPD = 0.86	

1 PCB-1016

1	3.842	3.842	0.000	8979H	0.1000	0.1083	
1	4.000	4.000	0.000	8718H	0.1000	0.1072	
1	4.217	4.217	0.000	22080H	0.1000	0.1027	
1	4.300	4.300	0.000	10740H	0.1000	0.1029	
1	4.758	4.758	0.000	9598H	0.1000	0.1048	
Average of Peak Amounts =						0.1052	
2	3.917	3.917	0.000	15787H	0.1000	0.1081	
2	4.283	4.283	0.000	34476H	0.1000	0.1038	
2	4.392	4.392	0.000	17449H	0.1000	0.1050	
2	4.758	4.758	0.000	14243H	0.1000	0.1037	
2	4.850	4.850	0.000	13723H	0.1000	0.1034	
Average of Peak Amounts =						0.1048	
						RPD = 0.39	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
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15 PCB-1260

1	5.792	5.792	0.000	21570H	0.1000	0.1057	
1	5.883	5.883	0.000	11535H	0.1000	0.1075	
1	6.275	6.275	0.000	15248H	0.1000	0.1080	
1	6.458	6.458	0.000	37412H	0.1000	0.1041	
1	5.617	5.617	0.000	19352H	0.1000	0.1065	

Average of Peak Amounts = 0.1064

2	5.667	5.667	0.000	28397H	0.1000	0.1049	
2	5.808	5.808	0.000	36887H	0.1000	0.1034	
2	5.925	5.925	0.000	30719H	0.1000	0.1041	
2	6.500	6.500	0.000	61756H	0.1000	0.1018	
2	6.758	6.758	0.000	36592H	0.1000	0.1037	

Average of Peak Amounts = 0.1036

RPD = 2.66

8 1260 Res 1

1	6.667	6.667	0.000	20217H	0.1000	0.1054	
2	6.333	6.333	0.000	26591H	0.1000	0.1032	

RPD = 2.08

2 1260 Res 2

1	6.725	6.725	0.000	8719H	0.1000	0.1122	
2	6.383	6.383	0.000	12913H	0.1000	0.1057	

RPD = 5.91

5 1260 Res 3

1	6.758	6.758	0.000	9988H	0.1000	0.1036	
2	6.425	6.425	0.000	11754H	0.1000	0.1032	

RPD = 0.38

\$ 10 DCB Decachlorobiphenyl

1	7.567	7.558	0.009	27065H	0.008000	0.008283	
2	7.567	7.567	0.000	47817H	0.008000	0.008302	

RPD = 0.24

S 12 Polychlorinated biphenyls, Total

1						0.1052	
						Average of Peak Amounts =	0.1052

Reagents:

AR1660-2_00035	Amount Added: 1.00	Units: mL	
IS8000WRK_00022	Amount Added: 10.00	Units: uL	Run Reagent

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\GC23-24\20180619-53137.b\060518_175.D

Injection Date: 19-Jun-2018 10:17:51

Instrument ID: INST23-24

Operator ID: hamnerb

Lims ID: IC AR16602

Worklist Smp#: 5

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

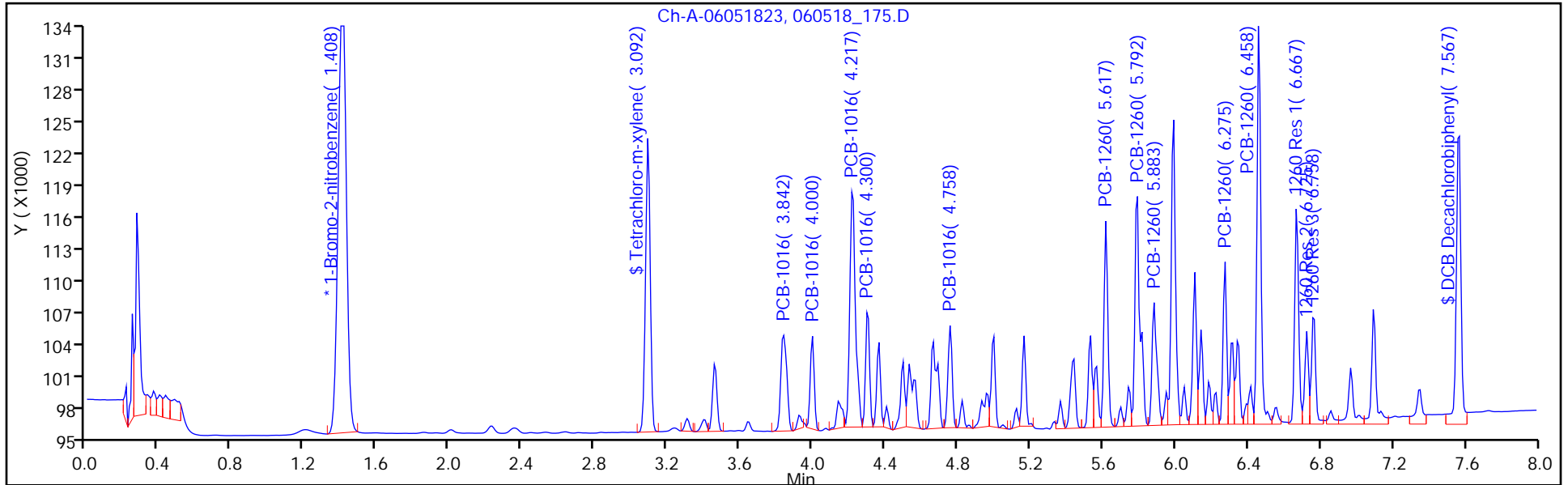
ALS Bottle#: 0

Method: 8082IS_23-24

Limit Group: GC_PCB_8082A_IS

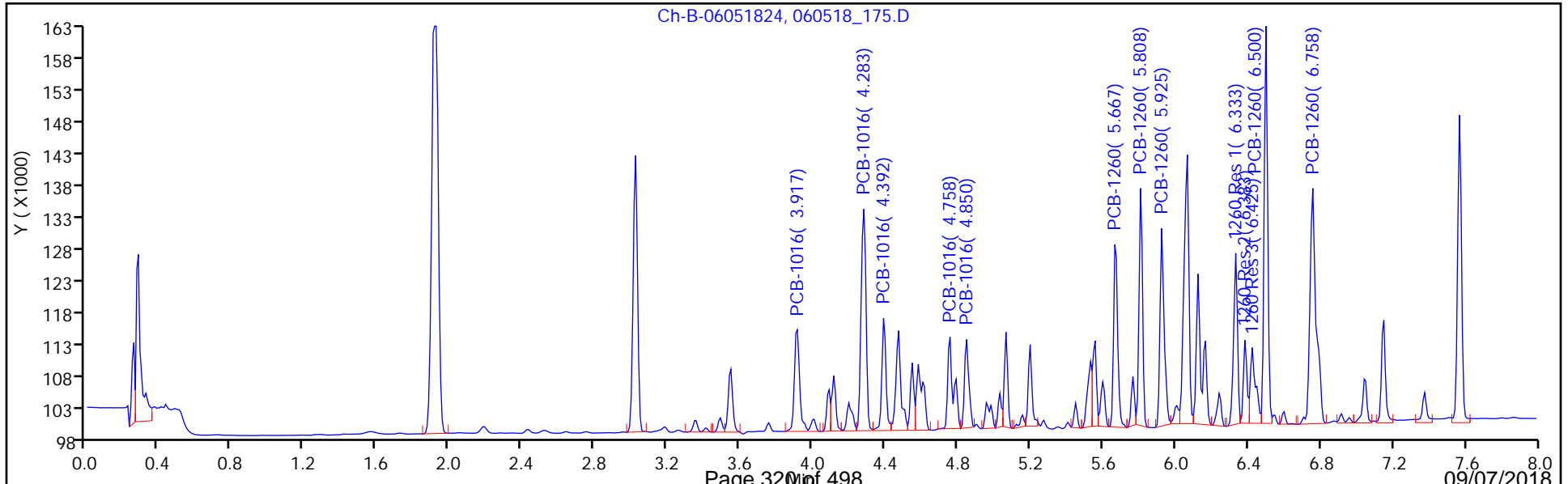
Column: ZB-5 (0.53 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Column: ZB-CLP-Pesticide 2 (0.53 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\GC23-24\20180619-53137.b\060518_176.D
 Lims ID: IC AR16601
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 19-Jun-2018 10:33:13 ALS Bottle#: 0 Worklist Smp#: 6
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: #: dc= Name: 060518,pcb23,500-0053137-006
 Operator ID: hamnerb Instrument ID: INST23-24
 Sublist: chrom-8082IS_23-24*sub2
 Method: \\ChromNA\Chicago\ChromData\GC23-24\20180619-53137.b\8082IS_23-24.m
 Limit Group: GC_PCB_8082A_IS
 Last Update: 19-Jun-2018 16:12:04 Calib Date: 19-Jun-2018 12:05:44
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Chicago\ChromData\GC23-24\20180619-53137.b\060518_182.D
 Column 1 : ZB-5 (0.53 mm) Det: Ch-A-04091547 19-Jun-2018 10:33:13
 Column 2 : ZB-CLP-Pesticide 2 (0.53 mm) Det: Ch-B-04091548 19-Jun-2018 10:48:36
 Process Host: XAWRK028

First Level Reviewer: hamnerb Date: 19-Jun-2018 11:08:19

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
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* 3 1-Bromo-2-nitrobenzene

1	1.408	1.408	0.000	45701H	0.0200	0.0200	
2	1.917	1.917	0.000	80449H	0.0200	0.0200	
Average of Peak Amounts =						0.0200	

\$ 4 Tetrachloro-m-xylene

1	3.092	3.092	0.000	14452H	0.004000	0.004165	
2	3.025	3.025	0.000	21123H	0.004000	0.004038	
						RPD = 3.09	

1 PCB-1016

1	3.842	3.842	0.000	3924H	0.0400	0.0453	
1	4.000	4.000	0.000	3809H	0.0400	0.0448	
1	4.217	4.217	0.000	9719H	0.0400	0.0433	
1	4.300	4.300	0.000	4932H	0.0400	0.0452	
1	4.758	4.758	0.000	4124H	0.0400	0.0431	
Average of Peak Amounts =						0.0443	
2	3.917	3.917	0.000	6111H	0.0400	0.0417	
2	4.283	4.283	0.000	13750H	0.0400	0.0413	
2	4.392	4.392	0.000	6832H	0.0400	0.0410	
2	4.758	4.758	0.000	5777H	0.0400	0.0419	
2	4.850	4.850	0.000	5570H	0.0400	0.0418	
Average of Peak Amounts =						0.0416	
						RPD = 6.45	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
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15 PCB-1260

1	5.783	5.792	-0.009	9206H	0.0400	0.0432	
1	5.883	5.883	0.000	4770H	0.0400	0.0425	
1	6.275	6.275	0.000	6415H	0.0400	0.0435	
1	6.458	6.458	0.000	15892H	0.0400	0.0423	
1	5.617	5.617	0.000	8324H	0.0400	0.0438	

Average of Peak Amounts = 0.0431

2	5.667	5.667	0.000	11585H	0.0400	0.0427	
2	5.808	5.808	0.000	14656H	0.0400	0.0410	
2	5.925	5.925	0.000	12251H	0.0400	0.0414	
2	6.500	6.500	0.000	24778H	0.0400	0.0407	
2	6.758	6.758	0.000	14745H	0.0400	0.0417	

Average of Peak Amounts = 0.0415

RPD = 3.71

8 1260 Res 1

1	6.667	6.667	0.000	8753H	0.0400	0.0437	
2	6.333	6.333	0.000	10737H	0.0400	0.0416	

RPD = 4.89

2 1260 Res 2

1	6.725	6.725	0.000	3764H	0.0400	0.0463	M
2	6.383	6.383	0.000	4866H	0.0400	0.0397	M

RPD = 15.32

5 1260 Res 3

1	6.758	6.758	0.000	4692H	0.0400	0.0466	Ma
2	6.425	6.425	0.000	4400H	0.0400	0.0385	M

RPD = 18.87

\$ 10 DCB Decachlorobiphenyl

1	7.558	7.558	0.000	15221H	0.004000	0.004456	
2	7.567	7.567	0.000	24449H	0.004000	0.004233	

RPD = 5.13

S 12 Polychlorinated biphenyls, Total

1						0.0443	
Average of Peak Amounts =						0.0443	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

AR1660-1_00035

Amount Added: 1.00

Units: mL

IS8000WRK_00022

Amount Added: 10.00

Units: uL

Run Reagent

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\GC23-24\20180619-53137.b\060518_176.D

Injection Date: 19-Jun-2018 10:33:13

Instrument ID: INST23-24

Operator ID: hamnerb

Lims ID: IC AR16601

Worklist Smp#: 6

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

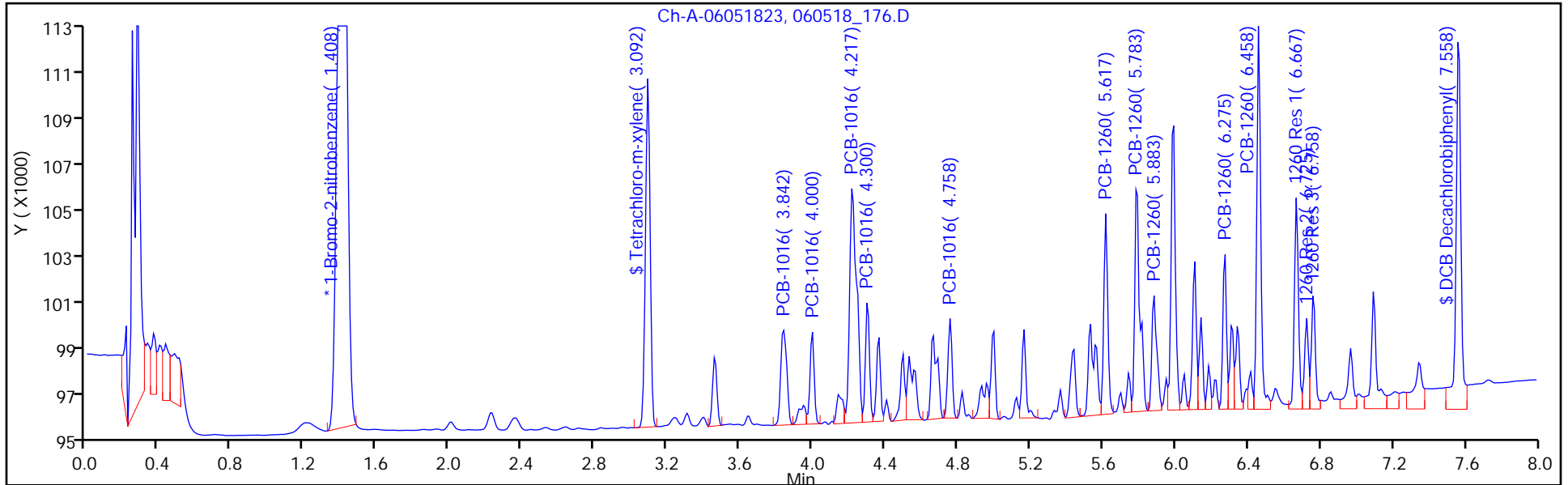
ALS Bottle#: 0

Method: 8082IS_23-24

Limit Group: GC_PCB_8082A_IS

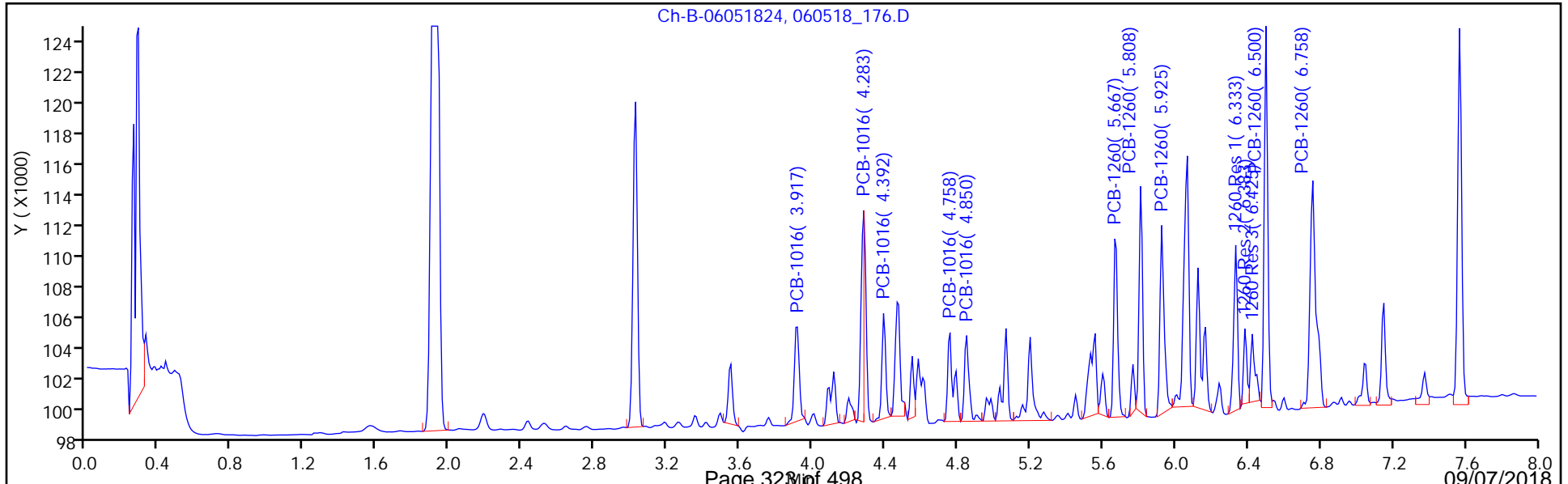
Column: ZB-5 (0.53 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Column: ZB-CLP-Pesticide 2 (0.53 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Chicago

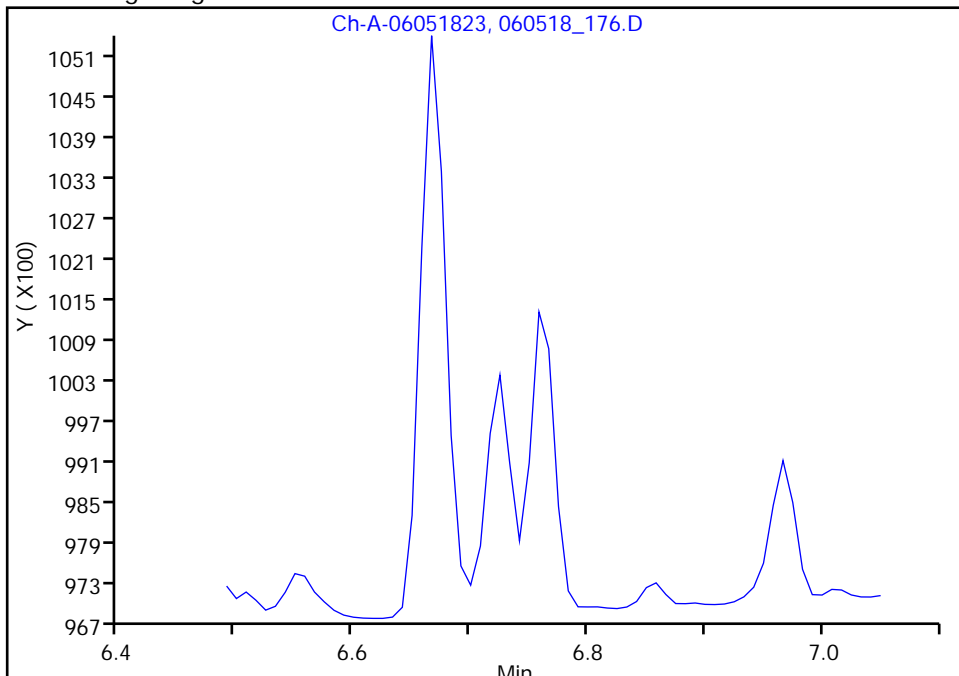
Data File: \\ChromNA\Chicago\ChromData\GC23-24\20180619-53137.b\060518_176.D
Injection Date: 19-Jun-2018 10:33:13 Instrument ID: INST23-24
Lims ID: IC AR16601
Client ID:
Operator ID: hamnerb ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8082IS_23-24 Limit Group: GC_PCB_8082A_IS
Column: ZB-5 (0.53 mm) Detector: Ch-A-04091547

5 1260 Res 3, CAS: STL02251

Signal: 1

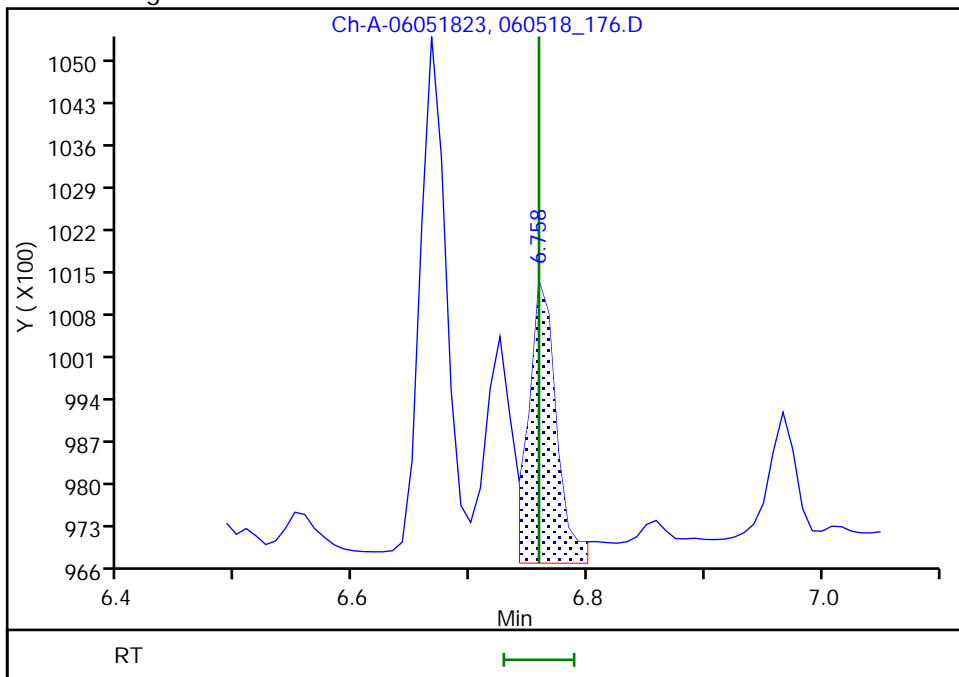
Not Detected
Expected RT: 6.76

Processing Integration Results



RT: 6.76
Height: 4692
Amount: 0.046572
Amount Units: ug/ml

Manual Integration Results



Reviewer: hamnerb, 19-Jun-2018 16:06:26
Audit Action: Assigned Compound ID

Audit Reason: Split Peak

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Chicago Job No.: 500-150867-2 Analy Batch No.: 437467

SDG No.: _____

Instrument ID: INST23-24 GC Column: ZB-5 ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/19/2018 11:19 Calibration End Date: 06/19/2018 11:19 Calibration ID: 28704

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 500-437467/9	060518_179.D

ANALYTE	RRF				CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1					B	M1	M2								
PCB-1221 Peak 1	0.0178				Ave		0.0178						20.0			
PCB-1221 Peak 2	0.0121				Ave		0.0121						20.0			
PCB-1221 Peak 3	0.0406				Ave		0.0406						20.0			
PCB-1254 Peak 1	0.0655				Ave		0.0655						20.0			
PCB-1254 Peak 2	0.0975				Ave		0.0975						20.0			
PCB-1254 Peak 3	0.1241				Ave		0.1241						20.0			
PCB-1254 Peak 4	0.1088				Ave		0.1088						20.0			
PCB-1254 Peak 5	0.0816				Ave		0.0816						20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
 PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
 RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Chicago Job No.: 500-150867-2 Analy Batch No.: 437467

SDG No.: _____

Instrument ID: INST23-24 GC Column: ZB-5 ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/19/2018 11:19 Calibration End Date: 06/19/2018 11:19 Calibration ID: 28704

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 500-437467/9	060518_179.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1					LVL 1				
PCB-1221 Peak 1	BNB	Ave	20240					0.500				
PCB-1221 Peak 2	BNB	Ave	13788					0.500				
PCB-1221 Peak 3	BNB	Ave	46182					0.500				
PCB-1254 Peak 1	BNB	Ave	74455					0.500				
PCB-1254 Peak 2	BNB	Ave	110885					0.500				
PCB-1254 Peak 3	BNB	Ave	141120					0.500				
PCB-1254 Peak 4	BNB	Ave	123762					0.500				
PCB-1254 Peak 5	BNB	Ave	92792					0.500				

Curve Type Legend:

Ave = Average ISTD by Height

TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\GC23-24\20180619-53137.b\060518_179.D
 Lims ID: IC AR2154
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 19-Jun-2018 11:19:35 ALS Bottle#: 0 Worklist Smp#: 9
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: #: dc= Name: 060518,pcb23,500-0053137-009
 Operator ID: hamnerb Instrument ID: INST23-24
 Sublist: chrom-8082IS_23-24*sub14
 Method: \\ChromNA\Chicago\ChromData\GC23-24\20180619-53137.b\8082IS_23-24.m
 Limit Group: GC_PCB_8082A_IS
 Last Update: 19-Jun-2018 16:11:48 Calib Date: 19-Jun-2018 12:05:44
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Chicago\ChromData\GC23-24\20180619-53137.b\060518_182.D
 Column 1 : ZB-5 (0.53 mm) Det: Ch-A-04091547 19-Jun-2018 11:19:35
 Column 2 : ZB-CLP-Pesticide 2 (0.53 mm) Det: Ch-B-04091548 19-Jun-2018 11:34:58
 Process Host: XAWRK028

First Level Reviewer: hamnerb Date: 19-Jun-2018 15:28:30

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
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* 3 1-Bromo-2-nitrobenzene

1	1.408	1.408	0.000	45496H	0.0200	0.0200	
2	1.917	1.917	0.000	83319H	0.0200	0.0200	
Average of Peak Amounts =						0.0200	

6 PCB-1221

1	3.308	3.308	0.000	20240H	0.5000	0.5000	
1	3.408	3.408	0.000	13788H	0.5000	0.5000	
1	3.458	3.458	0.000	46182H	0.5000	0.5000	
Average of Peak Amounts =						0.5000	
2	3.350	3.350	0.000	31193H	0.5000	0.5000	
2	3.492	3.492	0.000	22288H	0.5000	0.5000	
2	3.550	3.550	0.000	71682H	0.5000	0.5000	
Average of Peak Amounts =						0.5000	

RPD = 0.00

13 PCB-1254

1	5.000	5.000	0.000	74455H	0.5000	0.5000	
1	5.167	5.167	0.000	110885H	0.5000	0.5000	
1	5.442	5.442	0.000	141120H	0.5000	0.5000	
1	5.625	5.625	0.000	123762H	0.5000	0.5000	
1	5.817	5.817	0.000	92792H	0.5000	0.5000	
Average of Peak Amounts =						0.5000	
2	5.067	5.067	0.000	132868H	0.5000	0.5000	
2	5.200	5.200	0.000	148094H	0.5000	0.5000	
2	5.533	5.533	0.000	240997H	0.5000	0.5000	
2	5.683	5.683	0.000	176407H	0.5000	0.5000	
2	5.933	5.933	0.000	157125H	0.5000	0.5000	
Average of Peak Amounts =						0.5000	

RPD = 0.00

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
-----	-----------	---------------	---------------	----------	---------------	-----------------	-------

S 12 Polychlorinated biphenyls, Total

1 0.5000

Average of Peak Amounts = 0.5000

Reagents:

AR2154-4_00006	Amount Added: 1.00	Units: mL	
IS8000WRK_00022	Amount Added: 10.00	Units: uL	Run Reagent

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\GC23-24\20180619-53137.b\060518_179.D

Injection Date: 19-Jun-2018 11:19:35

Instrument ID: INST23-24

Operator ID: hamnerb

Lims ID: IC AR2154

Worklist Smp#: 9

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

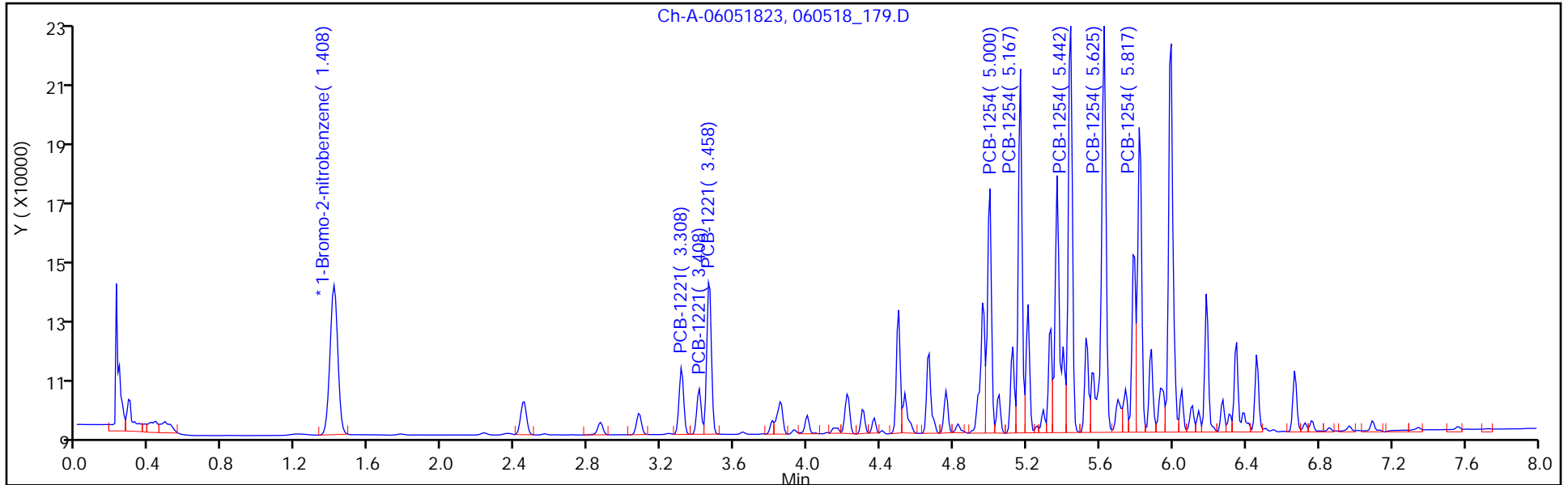
ALS Bottle#: 0

Method: 8082IS_23-24

Limit Group: GC_PCB_8082A_IS

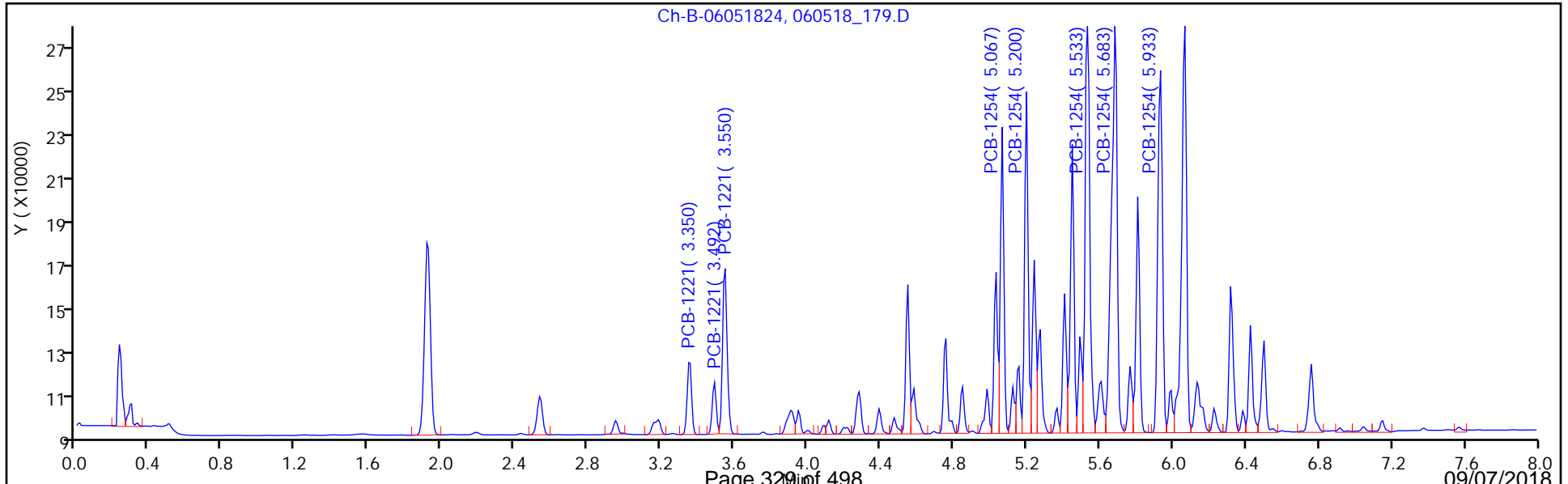
Column: ZB-5 (0.53 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Column: ZB-CLP-Pesticide 2 (0.53 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Chicago Job No.: 500-150867-2 Analy Batch No.: 437467

SDG No.: _____

Instrument ID: INST23-24 GC Column: ZB-5 ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/19/2018 11:34 Calibration End Date: 06/19/2018 11:34 Calibration ID: 28708

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 500-437467/10	060518_180.D

ANALYTE	RRF				CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1					B	M1	M2								
PCB-1248 Peak 1	0.0676				Ave		0.0676						20.0			
PCB-1248 Peak 2	0.0661				Ave		0.0661						20.0			
PCB-1248 Peak 3	0.0755				Ave		0.0755						20.0			
PCB-1248 Peak 4	0.0695				Ave		0.0695						20.0			
PCB-1248 Peak 5	0.0477				Ave		0.0477						20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
 PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
 RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Chicago Job No.: 500-150867-2 Analy Batch No.: 437467

SDG No.: _____

Instrument ID: INST23-24 GC Column: ZB-5 ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/19/2018 11:34 Calibration End Date: 06/19/2018 11:34 Calibration ID: 28708

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 500-437467/10	060518_180.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1					LVL 1				
PCB-1248 Peak 1	BNB	Ave	74293					0.500				
PCB-1248 Peak 2	BNB	Ave	72595					0.500				
PCB-1248 Peak 3	BNB	Ave	82970					0.500				
PCB-1248 Peak 4	BNB	Ave	76342					0.500				
PCB-1248 Peak 5	BNB	Ave	52422					0.500				

Curve Type Legend:

Ave = Average ISTD by Height

TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\GC23-24\20180619-53137.b\060518_180.D
 Lims ID: IC AR1248
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 19-Jun-2018 11:34:58 ALS Bottle#: 0 Worklist Smp#: 10
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: #: dc= Name: 060518,pcb23,500-0053137-010
 Operator ID: hamnerb Instrument ID: INST23-24
 Sublist: chrom-8082IS_23-24*sub4
 Method: \\ChromNA\Chicago\ChromData\GC23-24\20180619-53137.b\8082IS_23-24.m
 Limit Group: GC_PCB_8082A_IS
 Last Update: 19-Jun-2018 16:11:50 Calib Date: 19-Jun-2018 12:05:44
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Chicago\ChromData\GC23-24\20180619-53137.b\060518_182.D
 Column 1 : ZB-5 (0.53 mm) Det: Ch-A-04091547 19-Jun-2018 11:34:58
 Column 2 : ZB-CLP-Pesticide 2 (0.53 mm) Det: Ch-B-04091548 19-Jun-2018 11:50:21
 Process Host: XAWRK028

First Level Reviewer: hamnerb Date: 19-Jun-2018 15:29:51

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
-----	-----------	---------------	---------------	----------	---------------	-----------------	-------

* 3 1-Bromo-2-nitrobenzene

1	1.408	1.408	0.000	43945H	0.0200	0.0200	
2	1.917	1.917	0.000	82769H	0.0200	0.0200	
Average of Peak Amounts =						0.0200	

7 PCB-1248

1	4.217	4.217	0.000	74293H	0.5000	0.5000	
1	4.758	4.758	0.000	72595H	0.5000	0.5000	
1	4.958	4.958	0.000	82970H	0.5000	0.5000	
1	5.117	5.117	0.000	76342H	0.5000	0.5000	
1	5.442	5.442	0.000	52422H	0.5000	0.5000	
Average of Peak Amounts =						0.5000	
2	4.283	4.283	0.000	106512H	0.5000	0.5000	
2	4.850	4.850	0.000	109584H	0.5000	0.5000	
2	5.033	5.033	0.000	137756H	0.5000	0.5000	
2	5.233	5.233	0.000	145970H	0.5000	0.5000	
2	5.533	5.533	0.000	80764H	0.5000	0.5000	
Average of Peak Amounts =						0.5000	

RPD = 0.00

S 12 Polychlorinated biphenyls, Total

1						0.5000	
Average of Peak Amounts =						0.5000	

Reagents:

AR1248-4_00041 Amount Added: 1.00 Units: mL
 IS8000WRK_00022 Amount Added: 10.00 Units: uL Run Reagent

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\GC23-24\20180619-53137.b\060518_180.D

Injection Date: 19-Jun-2018 11:34:58

Instrument ID: INST23-24

Operator ID: hamnerb

Lims ID: IC AR1248

Worklist Smp#: 10

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

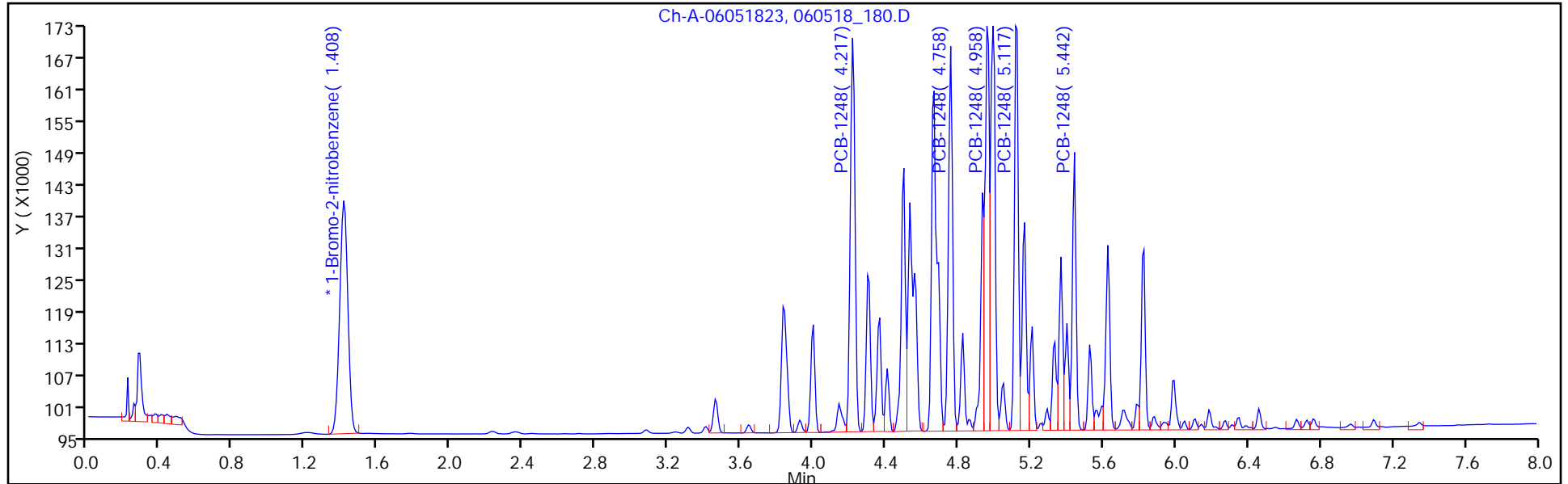
ALS Bottle#: 0

Method: 8082IS_23-24

Limit Group: GC_PCB_8082A_IS

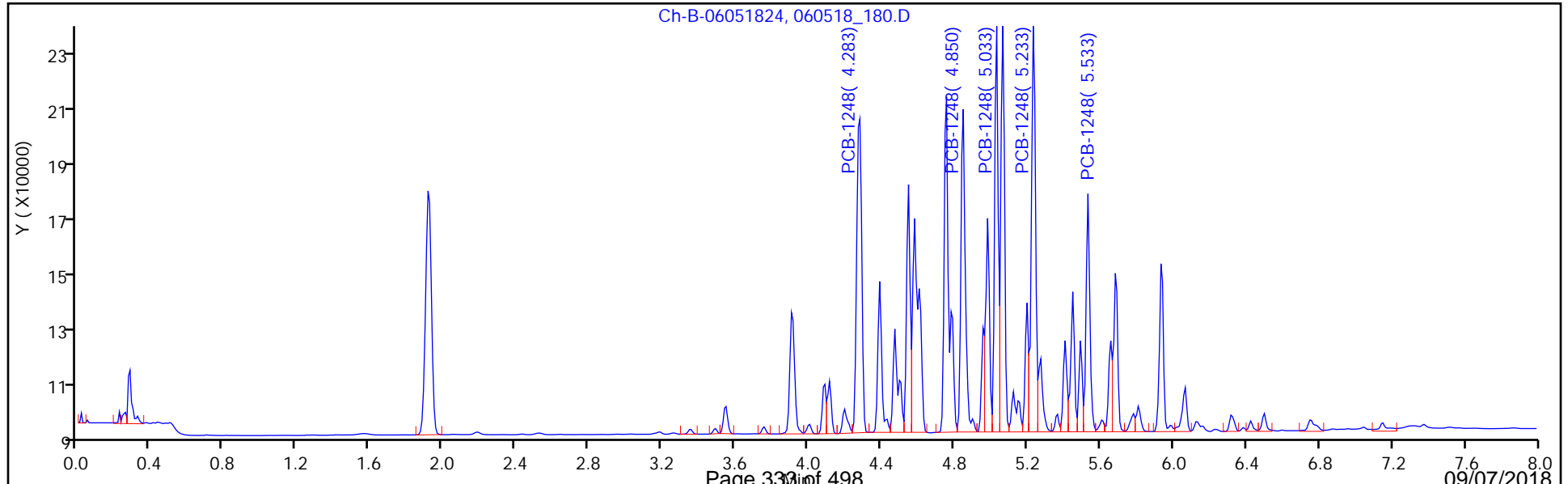
Column: ZB-5 (0.53 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Column: ZB-CLP-Pesticide 2 (0.53 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Chicago Job No.: 500-150867-2 Analy Batch No.: 437467

SDG No.: _____

Instrument ID: INST23-24 GC Column: ZB-5 ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/19/2018 11:50 Calibration End Date: 06/19/2018 11:50 Calibration ID: 28712

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 500-437467/11	060518_181.D

ANALYTE	RRF				CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1					B	M1	M2								
PCB-1242 Peak 1	0.0335				Ave		0.0335						20.0			
PCB-1242 Peak 2	0.0323				Ave		0.0323						20.0			
PCB-1242 Peak 3	0.0901				Ave		0.0901						20.0			
PCB-1242 Peak 4	0.0440				Ave		0.0440						20.0			
PCB-1242 Peak 5	0.0386				Ave		0.0386						20.0			
PCB-1268 Peak 1	0.2747				Ave		0.2747						20.0			
PCB-1268 Peak 2	0.2609				Ave		0.2609						20.0			
PCB-1268 Peak 3	0.2260				Ave		0.2260						20.0			
PCB-1268 Peak 4	0.0559				Ave		0.0559						20.0			
PCB-1268 Peak 5	0.1019				Ave		0.1019						20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Chicago Job No.: 500-150867-2 Analy Batch No.: 437467

SDG No.: _____

Instrument ID: INST23-24 GC Column: ZB-5 ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/19/2018 11:50 Calibration End Date: 06/19/2018 11:50 Calibration ID: 28712

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 500-437467/11	060518_181.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1					LVL 1				
PCB-1242 Peak 1	BNB	Ave	39301					0.500				
PCB-1242 Peak 2	BNB	Ave	37980					0.500				
PCB-1242 Peak 3	BNB	Ave	105809					0.500				
PCB-1242 Peak 4	BNB	Ave	51713					0.500				
PCB-1242 Peak 5	BNB	Ave	45374					0.500				
PCB-1268 Peak 1	BNB	Ave	322523					0.500				
PCB-1268 Peak 2	BNB	Ave	306319					0.500				
PCB-1268 Peak 3	BNB	Ave	265403					0.500				
PCB-1268 Peak 4	BNB	Ave	65581					0.500				
PCB-1268 Peak 5	BNB	Ave	119683					0.500				

Curve Type Legend:

Ave = Average ISTD by Height

TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\GC23-24\20180619-53137.b\060518_181.D
 Lims ID: IC AR4268
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 19-Jun-2018 11:50:21 ALS Bottle#: 0 Worklist Smp#: 11
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: #: dc= Name: 060518,pcb23,500-0053137-011
 Operator ID: hamnerb Instrument ID: INST23-24
 Sublist: chrom-8082IS_23-24*sub15

Method: \\ChromNA\Chicago\ChromData\GC23-24\20180619-53137.b\8082IS_23-24.m
 Limit Group: GC_PCB_8082A_IS
 Last Update: 19-Jun-2018 16:11:52 Calib Date: 19-Jun-2018 12:05:44
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Chicago\ChromData\GC23-24\20180619-53137.b\060518_182.D

Column 1 : ZB-5 (0.53 mm) Det: Ch-A-04091547 19-Jun-2018 11:50:21
 Column 2 : ZB-CLP-Pesticide 2 (0.53 mm) Det: Ch-B-04091548 19-Jun-2018 12:05:44
 Process Host: XAWRK028

First Level Reviewer: hamnerb Date: 19-Jun-2018 15:30:33

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
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* 3 1-Bromo-2-nitrobenzene

1	1.408	1.408	0.000	46969H	0.0200	0.0200	
2	1.917	1.917	0.000	82344H	0.0200	0.0200	
Average of Peak Amounts =						0.0200	

14 PCB-1242

1	3.842	3.842	0.000	39301H	0.5000	0.5000	
1	4.000	4.000	0.000	37980H	0.5000	0.5000	
1	4.217	4.217	0.000	105809H	0.5000	0.5000	
1	4.300	4.300	0.000	51713H	0.5000	0.5000	
1	4.758	4.758	0.000	45374H	0.5000	0.5000	
Average of Peak Amounts =						0.5000	
2	3.917	3.917	0.000	67848H	0.5000	0.5000	
2	4.283	4.283	0.000	156478H	0.5000	0.5000	
2	4.392	4.392	0.000	80018H	0.5000	0.5000	
2	4.850	4.850	0.000	65299H	0.5000	0.5000	
2	5.233	5.233	0.000	87709H	0.5000	0.5000	
Average of Peak Amounts =						0.5000	

RPD = 0.00

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
-----	-----------	---------------	---------------	----------	---------------	-----------------	-------

16 PCB-1268

1	6.725	6.725	0.000	322523H	0.5000	0.5000	
1	6.758	6.758	0.000	306319H	0.5000	0.5000	
1	6.958	6.958	0.000	265403H	0.5000	0.5000	
1	7.008	7.008	0.000	65581H	0.5000	0.5000	
1	7.092	7.092	0.000	119683H	0.5000	0.5000	

Average of Peak Amounts = 0.5000

2	6.750	6.750	0.000	533056H	0.5000	0.5000	
2	6.783	6.783	0.000	463300H	0.5000	0.5000	
2	6.958	6.958	0.000	447735H	0.5000	0.5000	
2	7.025	7.025	0.000	107900H	0.5000	0.5000	
2	7.150	7.150	0.000	180631H	0.5000	0.5000	

Average of Peak Amounts = 0.5000

RPD = 0.00

S 12 Polychlorinated biphenyls, Total

1						0.5000	
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Average of Peak Amounts = 0.5000

Reagents:

AR4268-4_00005	Amount Added: 1.00	Units: mL	
IS8000WRK_00022	Amount Added: 10.00	Units: uL	Run Reagent

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\GC23-24\20180619-53137.b\060518_181.D

Injection Date: 19-Jun-2018 11:50:21

Instrument ID: INST23-24

Operator ID: hamnerb

Lims ID: IC AR4268

Worklist Smp#: 11

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

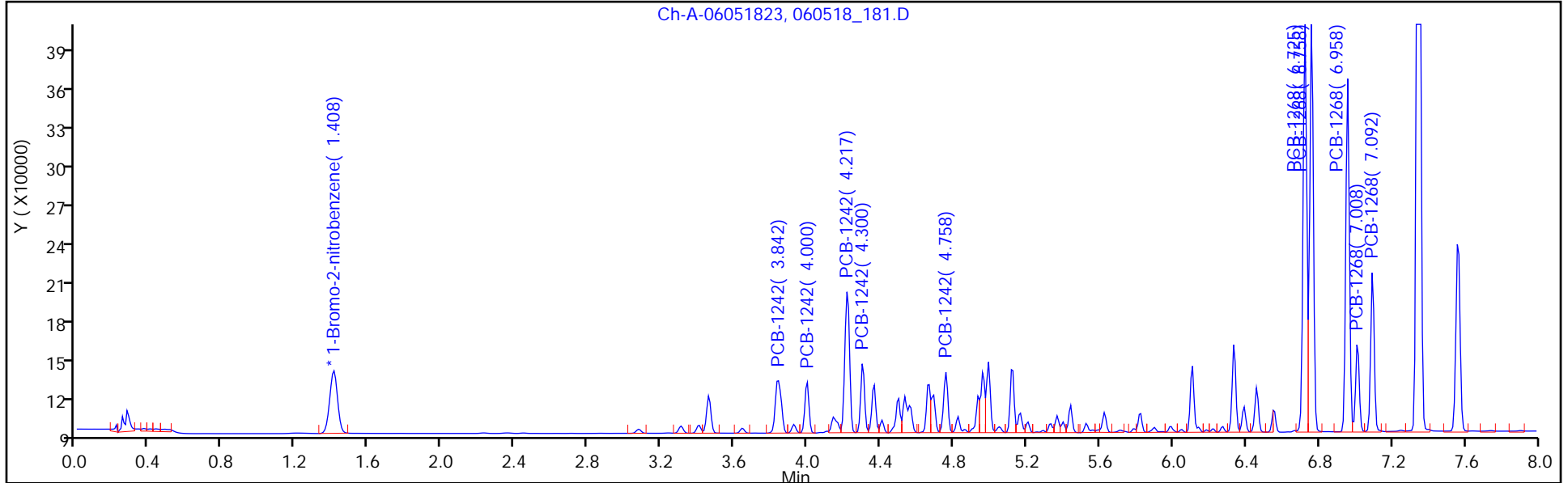
ALS Bottle#: 0

Method: 8082IS_23-24

Limit Group: GC_PCB_8082A_IS

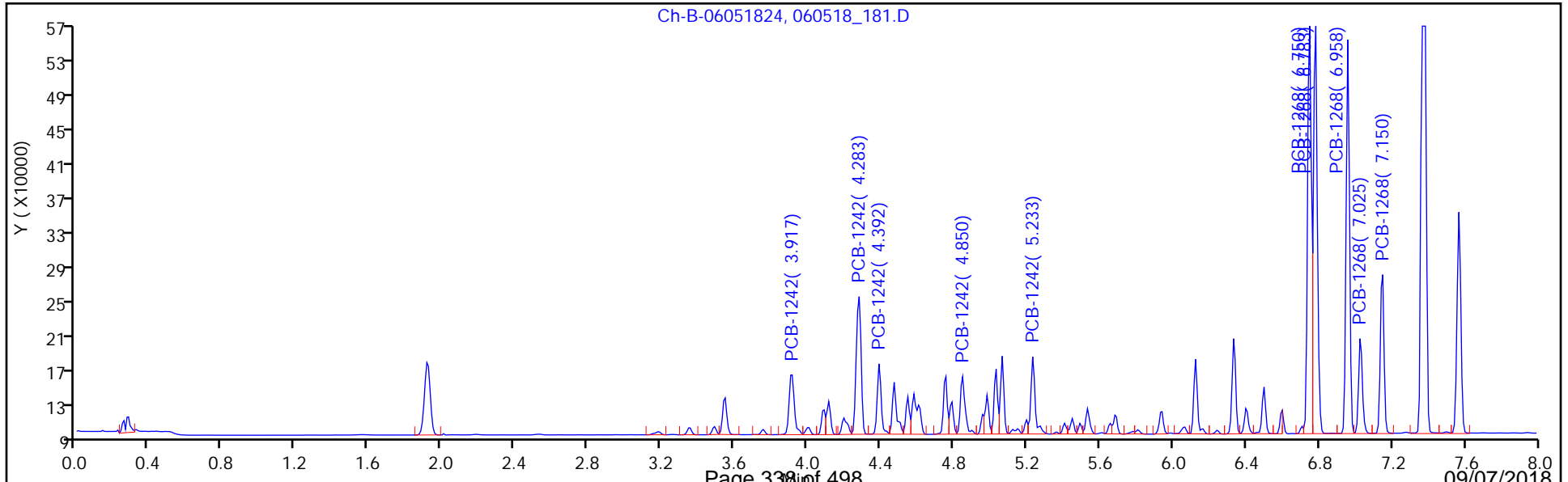
Column: ZB-5 (0.53 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Column: ZB-CLP-Pesticide 2 (0.53 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Chicago Job No.: 500-150867-2 Analy Batch No.: 437467

SDG No.: _____

Instrument ID: INST23-24 GC Column: ZB-5 ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/19/2018 12:05 Calibration End Date: 06/19/2018 12:05 Calibration ID: 28716

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 500-437467/12	060518_182.D

ANALYTE	RRF				CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1					B	M1	M2								
PCB-1232 Peak 1	0.0337				Ave		0.0337						20.0			
PCB-1232 Peak 2	0.0205				Ave		0.0205						20.0			
PCB-1232 Peak 3	0.0525				Ave		0.0525						20.0			
PCB-1232 Peak 4	0.0201				Ave		0.0201						20.0			
PCB-1232 Peak 5	0.0302				Ave		0.0302						20.0			
PCB-1262 Peak 1	0.0765				Ave		0.0765						20.0			
PCB-1262 Peak 2	0.2328				Ave		0.2328						20.0			
PCB-1262 Peak 3	0.1029				Ave		0.1029						20.0			
PCB-1262 Peak 4	0.0944				Ave		0.0944						20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Chicago Job No.: 500-150867-2 Analy Batch No.: 437467

SDG No.: _____

Instrument ID: INST23-24 GC Column: ZB-5 ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/19/2018 12:05 Calibration End Date: 06/19/2018 12:05 Calibration ID: 28716

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 500-437467/12	060518_182.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1					LVL 1				
PCB-1232 Peak 1	BNB	Ave	38973					0.500				
PCB-1232 Peak 2	BNB	Ave	23769					0.500				
PCB-1232 Peak 3	BNB	Ave	60796					0.500				
PCB-1232 Peak 4	BNB	Ave	23261					0.500				
PCB-1232 Peak 5	BNB	Ave	35010					0.500				
PCB-1262 Peak 1	BNB	Ave	88498					0.500				
PCB-1262 Peak 2	BNB	Ave	269507					0.500				
PCB-1262 Peak 3	BNB	Ave	119060					0.500				
PCB-1262 Peak 4	BNB	Ave	109321					0.500				

Curve Type Legend:

Ave = Average ISTD by Height

TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\GC23-24\20180619-53137.b\060518_182.D
 Lims ID: IC AR3262
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 19-Jun-2018 12:05:44 ALS Bottle#: 0 Worklist Smp#: 12
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: #: dc= Name: 060518,pcb23,500-0053137-012
 Operator ID: hamnerb Instrument ID: INST23-24
 Sublist: chrom-8082IS_23-24*sub16
 Method: \\ChromNA\Chicago\ChromData\GC23-24\20180619-53137.b\8082IS_23-24.m
 Limit Group: GC_PCB_8082A_IS
 Last Update: 19-Jun-2018 16:11:54 Calib Date: 19-Jun-2018 12:05:44
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Chicago\ChromData\GC23-24\20180619-53137.b\060518_182.D
 Column 1: ZB-5 (0.53 mm) Det: Ch-A-04091547 19-Jun-2018 12:05:44
 Column 2: ZB-CLP-Pesticide 2 (0.53 mm) Det: Ch-B-04091548 19-Jun-2018 12:21:18
 Process Host: XAWRK028

First Level Reviewer: hamnerb Date: 19-Jun-2018 15:31:51

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
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* 3 1-Bromo-2-nitrobenzene

1	1.408	1.408	0.000	46300H	0.0200	0.0200	
2	1.917	1.917	0.000	83201H	0.0200	0.0200	
Average of Peak Amounts =						0.0200	

11 PCB-1232

1	3.458	3.458	0.000	38973H	0.5000	0.5000	
1	3.842	3.842	0.000	23769H	0.5000	0.5000	
1	4.217	4.217	0.000	60796H	0.5000	0.5000	
1	4.758	4.758	0.000	23261H	0.5000	0.5000	
1	4.992	4.992	0.000	35010H	0.5000	0.5000	
Average of Peak Amounts =						0.5000	
2	3.550	3.550	0.000	58265H	0.5000	0.5000	
2	3.917	3.917	0.000	39814H	0.5000	0.5000	
2	4.283	4.283	0.000	89785H	0.5000	0.5000	
2	4.850	4.850	0.000	33125H	0.5000	0.5000	
2	5.067	5.067	0.000	60262H	0.5000	0.5000	
Average of Peak Amounts =						0.5000	

RPD = 0.00

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
-----	-----------	---------------	---------------	----------	---------------	-----------------	-------

9 PCB-1262

1	5.783	5.783	0.000	88498H	0.5000	0.5000	
1	6.458	6.458	0.000	269507H	0.5000	0.5000	
1	6.758	6.758	0.000	119060H	0.5000	0.5000	
1	7.092	7.092	0.000	109321H	0.5000	0.5000	

Average of Peak Amounts = 0.5000

2	6.500	6.500	0.000	447756H	0.5000	0.5000	
2	5.808	5.808	0.000	155432H	0.5000	0.5000	
2	6.750	6.750	0.000	263232H	0.5000	0.5000	
2	7.150	7.150	0.000	168446H	0.5000	0.5000	

Average of Peak Amounts = 0.5000

RPD = 0.00

S 12 Polychlorinated biphenyls, Total

1						0.5000	
							Average of Peak Amounts = 0.5000

Reagents:

AR3262-4_00003	Amount Added: 1.00	Units: mL	
IS8000WRK_00022	Amount Added: 10.00	Units: uL	Run Reagent

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\GC23-24\20180619-53137.b\060518_182.D

Injection Date: 19-Jun-2018 12:05:44

Instrument ID: INST23-24

Operator ID: hamnerb

Lims ID: IC AR3262

Worklist Smp#: 12

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

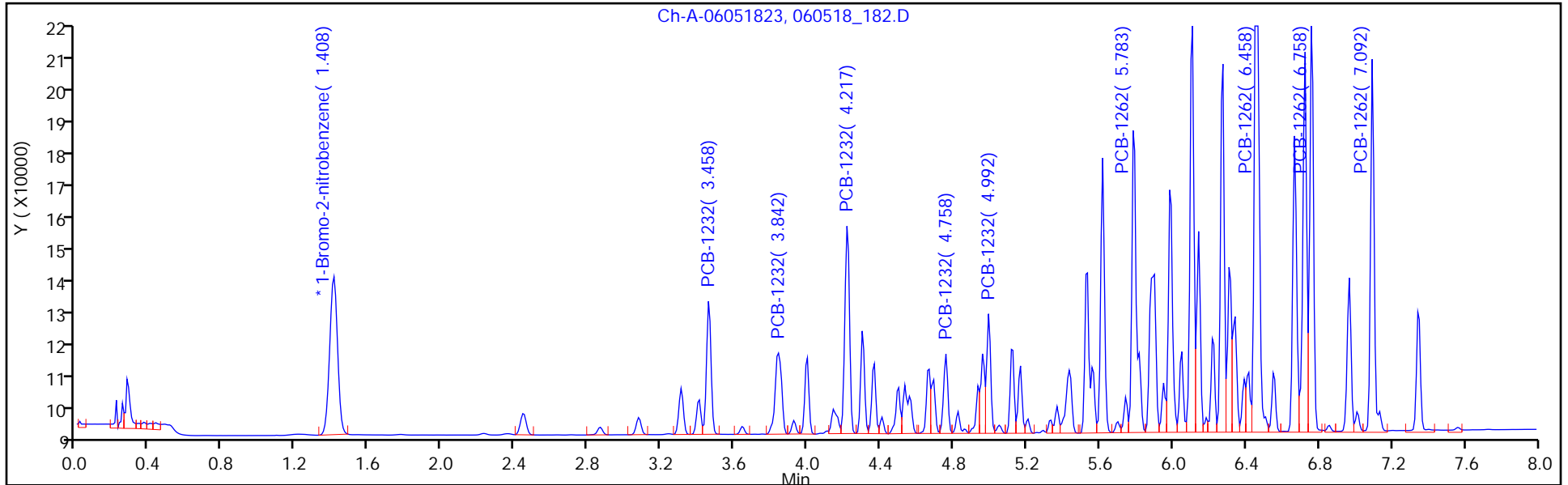
ALS Bottle#: 0

Method: 8082IS_23-24

Limit Group: GC_PCB_8082A_IS

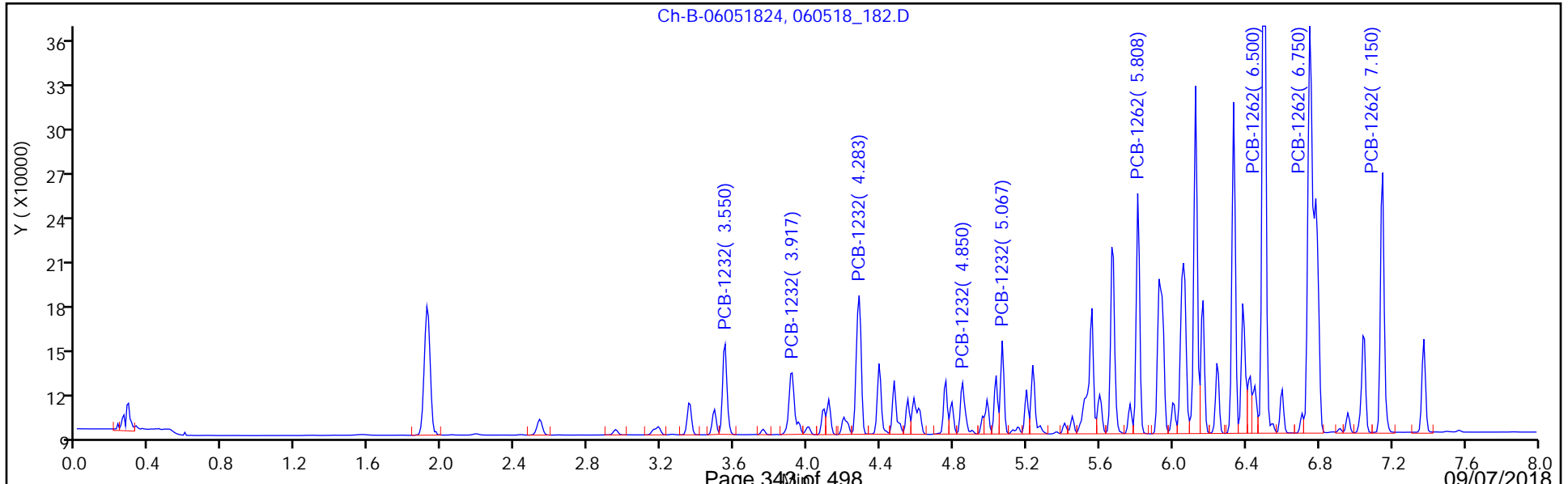
Column: ZB-5 (0.53 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Column: ZB-CLP-Pesticide 2 (0.53 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Chicago Job No.: 500-150867-2
 SDG No.: _____
 Lab Sample ID: ICV 500-437467/7 Calibration Date: 06/19/2018 10:48
 Instrument ID: INST23-24 Calib Start Date: 06/19/2018 09:16
 GC Column: ZB-5 ID: 0.53 (mm) Calib End Date: 06/19/2018 10:33
 Lab File ID: 060518_177.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Ave	0.0379	0.0385		0.254	0.250	1.5	20.0
PCB-1016 Peak 2	Ave	0.0372	0.0377		0.253	0.250	1.3	20.0
PCB-1016 Peak 3	Ave	0.0983	0.1007		0.256	0.250	2.4	20.0
PCB-1016 Peak 4	Ave	0.0477	0.0490		0.257	0.250	2.7	20.0
PCB-1016 Peak 5	Ave	0.0419	0.0372		0.222	0.250	-11.1	20.0
PCB-1260 Peak 5	Ave	0.0831	0.0758		0.228	0.250	-8.8	20.0
PCB-1260 Peak 1	Ave	0.0933	0.0855		0.229	0.250	-8.4	20.0
PCB-1260 Peak 2	Ave	0.0491	0.0458		0.233	0.250	-6.6	20.0
PCB-1260 Peak 3	Ave	0.0646	0.0728		0.282	0.250	12.7	20.0
PCB-1260 Peak 4	Ave	0.1644	0.1840		0.280	0.250	11.9	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-150867-2
 SDG No.: _____
 Lab Sample ID: ICV 500-437467/7 Calibration Date: 06/19/2018 10:48
 Instrument ID: INST23-24 Calib Start Date: 06/19/2018 09:16
 GC Column: ZB-5 ID: 0.53(mm) Calib End Date: 06/19/2018 10:33
 Lab File ID: 060518_177.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	3.84	3.81	3.87
PCB-1016 Peak 2	4.00	3.97	4.03
PCB-1016 Peak 3	4.22	4.19	4.25
PCB-1016 Peak 4	4.30	4.27	4.33
PCB-1016 Peak 5	4.76	4.73	4.79
PCB-1260 Peak 5	5.62	5.59	5.65
PCB-1260 Peak 1	5.78	5.76	5.82
PCB-1260 Peak 2	5.88	5.85	5.91
PCB-1260 Peak 3	6.28	6.25	6.31
PCB-1260 Peak 4	6.46	6.43	6.49

TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\GC23-24\20180619-53137.b\060518_177.D
 Lims ID: ICV
 Client ID:
 Sample Type: ICV
 Inject. Date: 19-Jun-2018 10:48:36 ALS Bottle#: 0 Worklist Smp#: 7
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: #: dc= Name: 060518,pcb23,500-0053137-007
 Operator ID: hamnerb Instrument ID: INST23-24
 Sublist:

Method: \\ChromNA\Chicago\ChromData\GC23-24\20180619-53137.b\8082IS_23-24.m
 Limit Group: GC_PCB_8082A_IS
 Last Update: 19-Jun-2018 16:12:04 Calib Date: 19-Jun-2018 12:05:44
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Chicago\ChromData\GC23-24\20180619-53137.b\060518_182.D
 Column 1 : ZB-5 (0.53 mm) Det: Ch-A-04091547 19-Jun-2018 10:48:36
 Column 2 : ZB-CLP-Pesticide 2 (0.53 mm) Det: Ch-B-04091548 19-Jun-2018 11:03:59
 Process Host: XAWRK028

First Level Reviewer: hamnerb Date: 19-Jun-2018 14:30:47

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
-----	-----------	---------------	---------------	----------	---------------	-----------------	-------

* 3 1-Bromo-2-nitrobenzene
 1 1.408 1.408 0.000 45402H 0.0200 0.0200
 2 1.917 1.917 0.000 79744H 0.0200 0.0200
 Average of Peak Amounts = 0.0200

1 PCB-1016
 1 3.842 3.842 0.000 21853H 0.2500 0.2538
 1 4.000 4.000 0.000 21382H 0.2500 0.2532
 1 4.217 4.217 0.000 57119H 0.2500 0.2559
 1 4.300 4.300 0.000 27825H 0.2500 0.2568
 1 4.758 4.758 0.000 21133H 0.2500 0.2223
 Average of Peak Amounts = 0.2484
 2 3.917 3.917 0.000 37866H 0.2500 0.2609
 2 4.283 4.283 0.000 84936H 0.2500 0.2573
 2 4.392 4.392 0.000 42189H 0.2500 0.2554
 2 4.758 4.758 0.000 34745H 0.2500 0.2545
 2 4.850 4.850 0.000 29912H 0.2500 0.2267
 Average of Peak Amounts = 0.2510

RPD = 1.02

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
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15 PCB-1260

1	5.783	5.792	-0.009	48516H	0.2500	0.2290	
1	5.883	5.883	0.000	26001H	0.2500	0.2334	
1	6.275	6.275	0.000	41297H	0.2500	0.2818	
1	6.458	6.458	0.000	104440H	0.2500	0.2798	
1	5.617	5.617	0.000	43034H	0.2500	0.2281	

Average of Peak Amounts = 0.2504

2	5.667	5.667	0.000	63537H	0.2500	0.2362	
2	5.808	5.808	0.000	85050H	0.2500	0.2398	
2	5.925	5.925	0.000	63484H	0.2500	0.2164	
2	6.500	6.500	0.000	171388H	0.2500	0.2842	
2	6.758	6.758	0.000	93490H	0.2500	0.2666	

Average of Peak Amounts = 0.2487

RPD = 0.70

Reagents:

ICV1660-3_00050	Amount Added: 1.00	Units: mL	
IS8000WRK_00022	Amount Added: 10.00	Units: uL	Run Reagent

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\GC23-24\20180619-53137.b\060518_177.D

Injection Date: 19-Jun-2018 10:48:36

Instrument ID: INST23-24

Operator ID: hamnerb

Lims ID: ICV

Worklist Smp#: 7

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

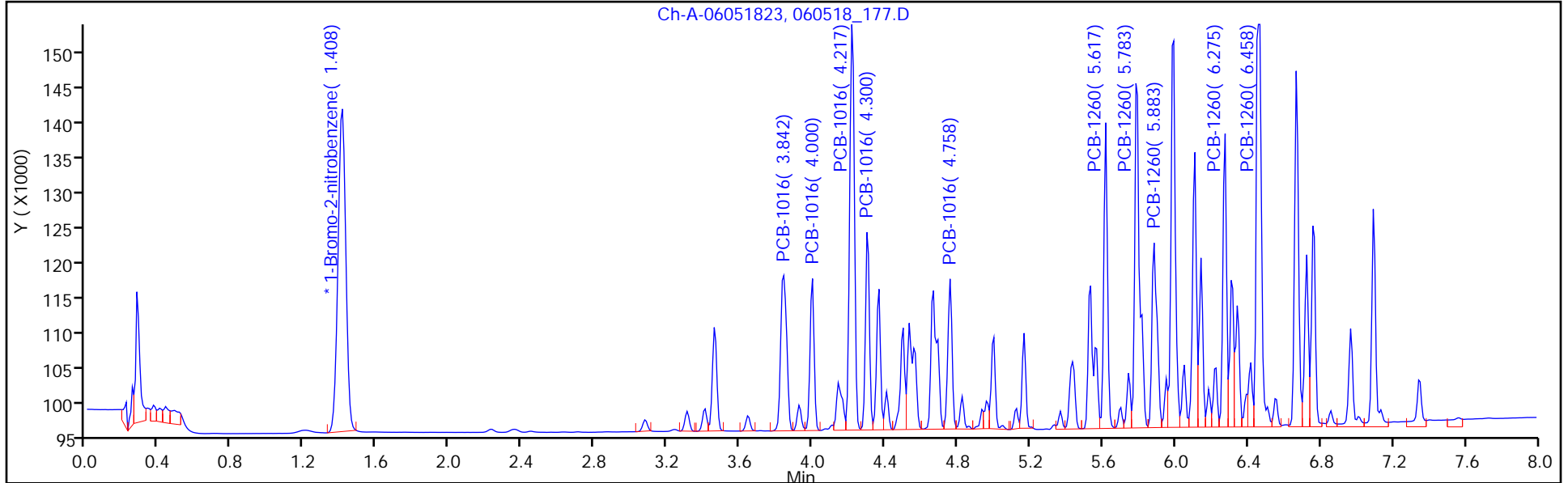
ALS Bottle#: 0

Method: 8082IS_23-24

Limit Group: GC_PCB_8082A_IS

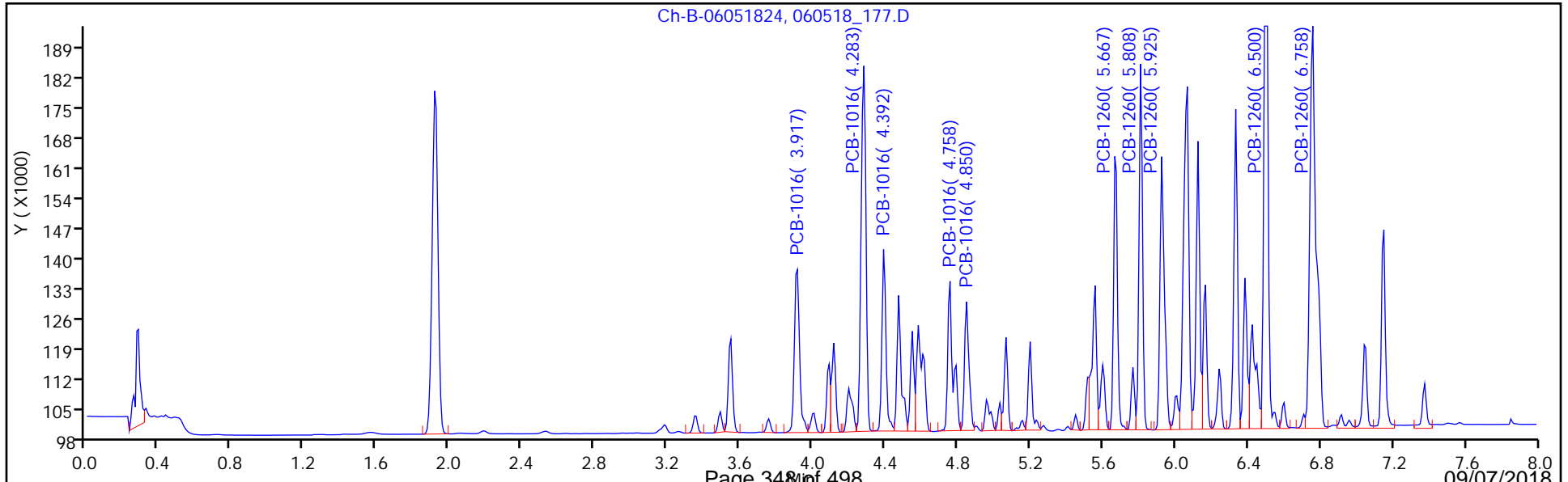
Column: ZB-5 (0.53 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Column: ZB-CLP-Pesticide 2 (0.53 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Chicago Job No.: 500-150867-2
 SDG No.: _____
 Lab Sample ID: CCVIS 500-448491/1 Calibration Date: 09/05/2018 16:07
 Instrument ID: INST23-24 Calib Start Date: 06/19/2018 09:16
 GC Column: ZB-5 ID: 0.53 (mm) Calib End Date: 06/19/2018 10:33
 Lab File ID: 082218_455.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Ave	0.0379	0.0341		0.449	0.500	-10.2	20.0
PCB-1016 Peak 2	Ave	0.0372	0.0316		0.424	0.500	-15.1	20.0
PCB-1016 Peak 3	Ave	0.0983	0.0882		0.449	0.500	-10.3	20.0
PCB-1016 Peak 4	Ave	0.0477	0.0431		0.451	0.500	-9.8	20.0
PCB-1016 Peak 5	Ave	0.0419	0.0360		0.429	0.500	-14.1	20.0
PCB-1260 Peak 5	Ave	0.0831	0.0695		0.418	0.500	-16.4	20.0
PCB-1260 Peak 1	Ave	0.0933	0.0897		0.481	0.500	-3.9	20.0
PCB-1260 Peak 2	Ave	0.0491	0.0419		0.427	0.500	-14.7	20.0
PCB-1260 Peak 3	Ave	0.0646	0.0552		0.427	0.500	-14.5	20.0
PCB-1260 Peak 4	Ave	0.1644	0.1491		0.453	0.500	-9.3	20.0
Tetrachloro-m-xylene	Ave	1.518	1.309		0.0345	0.0400	-13.8	20.0
DCB Decachlorobiphenyl	Ave	1.495	1.333		0.0357	0.0400	-10.8	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-150867-2
 SDG No.: _____
 Lab Sample ID: CCVIS 500-448491/1 Calibration Date: 09/05/2018 16:07
 Instrument ID: INST23-24 Calib Start Date: 06/19/2018 09:16
 GC Column: ZB-5 ID: 0.53(mm) Calib End Date: 06/19/2018 10:33
 Lab File ID: 082218_455.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	3.82	3.79	3.85
PCB-1016 Peak 2	3.98	3.95	4.01
PCB-1016 Peak 3	4.20	4.17	4.23
PCB-1016 Peak 4	4.28	4.25	4.31
PCB-1016 Peak 5	4.74	4.71	4.77
PCB-1260 Peak 5	5.60	5.57	5.63
PCB-1260 Peak 1	5.77	5.74	5.80
PCB-1260 Peak 2	5.87	5.84	5.90
PCB-1260 Peak 3	6.25	6.22	6.28
PCB-1260 Peak 4	6.44	6.41	6.47
Tetrachloro-m-xylene	3.08	3.05	3.11
DCB Decachlorobiphenyl	7.54	7.51	7.57

TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\GC23-24\20180905-54851.b\082218_455.D
 Lims ID: CCVIS
 Client ID:
 Sample Type: CCVIS
 Inject. Date: 05-Sep-2018 16:07:09 ALS Bottle#: 0 Worklist Smp#: 1
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: #: dc= Name: 082218,pcb23,500-0054851-001
 Operator ID: hamnerb Instrument ID: INST23-24
 Sublist: chrom-8082IS_23-24*sub2
 Method: \\ChromNA\Chicago\ChromData\GC23-24\20180905-54851.b\8082IS_23-24.m
 Limit Group: GC_PCB_8082A_IS
 Last Update: 05-Sep-2018 16:57:03 Calib Date: 19-Jun-2018 12:05:44
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Chicago\ChromData\GC23-24\20180619-53137.b\060518_182.D
 Column 1 : ZB-5 (0.53 mm) Det: Ch-A-04091547 05-Sep-2018 16:07:09
 Column 2 : ZB-CLP-Pesticide 2 (0.53 mm) Det: Ch-B-04091548 05-Sep-2018 16:22:29
 Process Host: XAWRK025

First Level Reviewer: hamnerb Date: 05-Sep-2018 16:57:03

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
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* 3 1-Bromo-2-nitrobenzene
 1 1.375 1.375 0.000 49748H 0.0200 0.0200
 2 1.883 1.883 0.000 83185H 0.0200 0.0200
 Average of Peak Amounts = 0.0200

\$ 4 Tetrachloro-m-xylene
 1 3.075 3.075 0.000 130256H 0.0400 0.0345
 2 2.983 2.983 0.000 201597H 0.0400 0.0373
 RPD = 7.77

1 PCB-1016
 1 3.817 3.817 0.000 42361H 0.5000 0.4490
 1 3.975 3.975 0.000 39272H 0.5000 0.4244
 1 4.200 4.200 0.000 109721H 0.5000 0.4486
 1 4.283 4.283 0.000 53556H 0.5000 0.4511
 1 4.742 4.742 0.000 44727H 0.5000 0.4293
 Average of Peak Amounts = 0.4405
 2 3.875 3.875 0.000 77719H 0.5000 0.5132
 2 4.250 4.250 0.000 158609H 0.5000 0.4607
 2 4.358 4.358 0.000 80413H 0.5000 0.4666
 2 4.717 4.717 0.000 70313H 0.5000 0.4938
 2 4.808 4.808 0.000 65504H 0.5000 0.4759
 Average of Peak Amounts = 0.4820
 RPD = 9.01

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
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15 PCB-1260

1	5.767	5.767	0.000	111559H	0.5000	0.4806	
1	5.867	5.867	0.000	52072H	0.5000	0.4266	
1	6.250	6.250	0.000	68650H	0.5000	0.4275	
1	6.442	6.442	0.000	185423H	0.5000	0.4533	
1	5.600	5.600	0.000	86431H	0.5000	0.4181	

Average of Peak Amounts = 0.4412

2	5.633	5.633	0.000	144232H	0.5000	0.5141	
2	5.775	5.775	0.000	177182H	0.5000	0.4790	
2	5.892	5.892	0.000	139073H	0.5000	0.4545	
2	6.467	6.467	0.000	276604H	0.5000	0.4397	
2	6.717	6.717	0.000	170162H	0.5000	0.4652	

Average of Peak Amounts = 0.4705

RPD = 6.42

8 1260 Res 1

1		6.692			ND	ND	
2		6.350					

2 1260 Res 2

1	6.708	6.708	0.000	38695H	0.5000	0.4374	
2	6.392	6.392	0.000	49361H	0.5000	0.3897	

RPD = 11.53

5 1260 Res 3

1		6.767			ND	ND	
2		6.425					

\$ 10 DCB Decachlorobiphenyl

1	7.542	7.542	0.000	132640H	0.0400	0.0357	
2	7.525	7.525	0.000	218713H	0.0400	0.0366	

RPD = 2.63

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

H - Response Measured by Height

Reagents:

AR1660CCV4_00207

Amount Added: 1.00

Units: mL

IS8000WRK_00022

Amount Added: 10.00

Units: uL

Run Reagent

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\GC23-24\20180905-54851.b\082218_455.D

Injection Date: 05-Sep-2018 16:07:09

Instrument ID: INST23-24

Operator ID: hamnerb

Lims ID: CCVIS

Worklist Smp#: 1

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

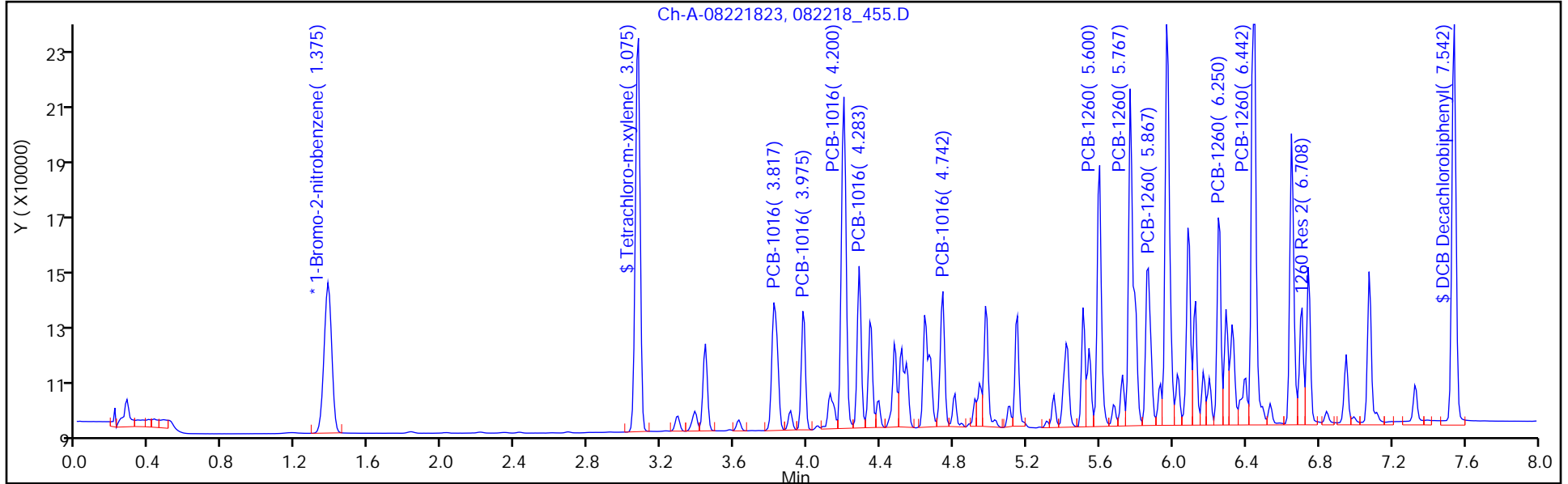
ALS Bottle#: 0

Method: 8082IS_23-24

Limit Group: GC_PCB_8082A_IS

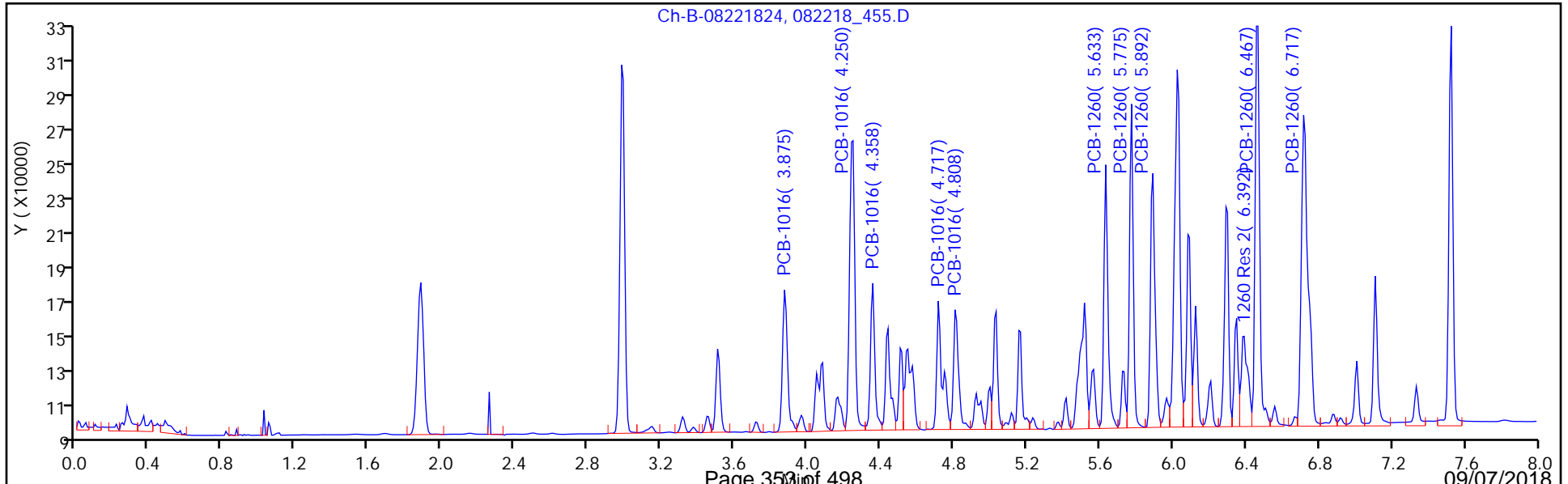
Column: ZB-5 (0.53 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Column: ZB-CLP-Pesticide 2 (0.53 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Chicago Job No.: 500-150867-2
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 500-448423/1-A
 Matrix: Solid Lab File ID: 082218_456.D
 Analysis Method: 8082A Date Collected: _____
 Extraction Method: 3510C Date Extracted: 09/05/2018 11:22
 Sample wt/vol: 1000 (mL) Date Analyzed: 09/05/2018 16:22
 Con. Extract Vol.: 10.0 (mL) Dilution Factor: 1
 Injection Volume: 1 (uL) GC Column: ZB-5 ID: 0.53 (mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 448491 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD
12674-11-2	PCB-1016	<0.16		0.50	0.16
11104-28-2	PCB-1221	<0.24		0.50	0.24
11141-16-5	PCB-1232	<0.086		0.50	0.086
53469-21-9	PCB-1242	<0.12		0.50	0.12
12672-29-6	PCB-1248	<0.10		0.50	0.10
11097-69-1	PCB-1254	<0.10		0.50	0.10
11096-82-5	PCB-1260	<0.11		0.50	0.11

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	70		30-120
2051-24-3	DCB Decachlorobiphenyl	85		30-140

TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\GC23-24\20180905-54851.b\082218_456.D
 Lims ID: MB 500-448423/1-A
 Client ID:
 Sample Type: MB
 Inject. Date: 05-Sep-2018 16:22:29 ALS Bottle#: 0 Worklist Smp#: 2
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: #: dc= Name: 082218,pcb23,500-0054851-002
 Operator ID: hamnerb Instrument ID: INST23-24
 Method: \\ChromNA\Chicago\ChromData\GC23-24\20180905-54851.b\8082IS_23-24.m
 Limit Group: GC_PCB_8082A_IS
 Last Update: 06-Sep-2018 09:17:43 Calib Date: 19-Jun-2018 12:05:44
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Chicago\ChromData\GC23-24\20180619-53137.b\060518_182.D
 Column 1 : ZB-5 (0.53 mm) Det: Ch-A-04091547 05-Sep-2018 16:22:29
 Column 2 : ZB-CLP-Pesticide 2 (0.53 mm) Det: Ch-B-04091548 05-Sep-2018 16:38:05
 Process Host: XAWRK025

First Level Reviewer: hamnerb Date: 06-Sep-2018 09:17:51

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
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* 3 1-Bromo-2-nitrobenzene

1	1.358	1.375	-0.017	47523H	0.0200	0.0200	
2	1.875	1.883	-0.008	106516H	0.0200	0.0200	
Average of Peak Amounts =						0.0200	

\$ 4 Tetrachloro-m-xylene

1	3.067	3.075	-0.008	101026H	0.0400	0.0280	
2	2.983	2.983	0.000	153359H	0.0400	0.0221	
						RPD = 23.35	

6 PCB-1221

1		3.275				ND	
1		3.375					
1		3.433					
2		3.317					
2		3.458					
2		3.508					

11 PCB-1232

1		3.458				ND	
1		3.842					
1		4.217					
1		4.758					
1		4.992					
2		3.550					
2		3.917					
2		4.283					
2		4.850					
2		5.067					

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
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1 PCB-1016

1	3.817					ND	
1	3.975						
1	4.200						
1	4.283						
1	4.742						
2	3.875						
2	4.250						
2	4.358						
2	4.717						
2	4.808						

14 PCB-1242

1	3.833					ND	
1	4.000						
1	4.217						
1	4.300						
1	4.758						
2	3.917						
2	4.283						
2	4.392						
2	4.850						
2	5.233						

7 PCB-1248

1	4.192					ND	
1	4.733						
1	4.933						
1	5.092						
1	5.417						
2	4.250						
2	4.808						
2	4.992						
2	5.200						
2	5.492						

13 PCB-1254

1	4.967					ND	
1	5.142						
1	5.417						
1	5.600						
1	5.800						
2	5.033						
2	5.158						
2	5.492						
2	5.650						
2	5.900						

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
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15 PCB-1260

1	5.767					ND	
1	5.867						
1	6.250						
1	6.442						
1	5.600						
2	5.633						
2	5.775						
2	5.892						
2	6.467						
2	6.717						

9 PCB-1262

1	5.783					ND	
1	6.458						
1	6.758						
1	7.092						
2	6.500						
2	5.808						
2	6.750						
2	7.150						

8 1260 Res 1

1	6.692					ND	
2	6.350						

2 1260 Res 2

1	6.708					ND	
2	6.392						

16 PCB-1268

1	6.742					ND	
1	6.775						
1	6.983						
1	7.033						
1	7.108						
2	6.758						
2	0.000						
2	6.967						
2	7.058						
2	7.158						

5 1260 Res 3

1	6.767					ND	
2	6.425						

\$ 10 DCB Decachlorobiphenyl

1	7.533	7.542	-0.009	121069H	0.0400	0.0341		
2	7.525	7.525	0.000	186358H	0.0400	0.0244		
							RPD = 33.23	

S 12 Polychlorinated biphenyls, Total

1	0.000					ND	
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Reagents:

IS8000WRK_00022

Amount Added: 10.00

Units: uL

Run Reagent

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\GC23-24\20180905-54851.b\082218_456.D

Injection Date: 05-Sep-2018 16:22:29

Instrument ID: INST23-24

Operator ID: hamnerb

Lims ID: MB 500-448423/1-A

Worklist Smp#: 2

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

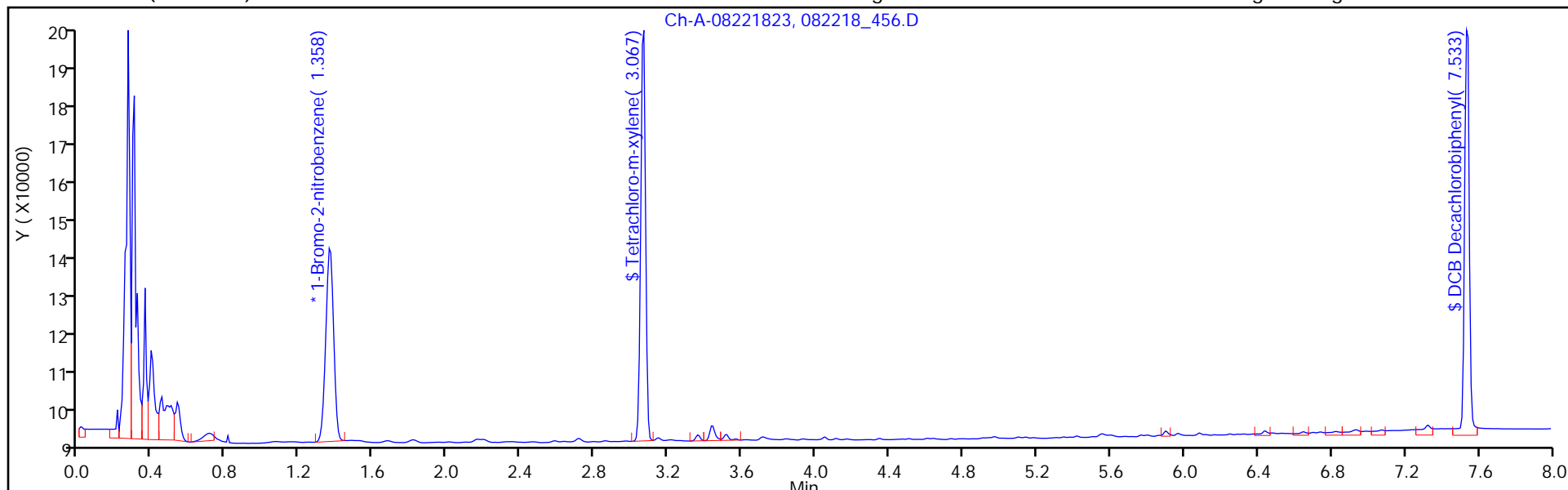
ALS Bottle#: 0

Method: 8082IS_23-24

Limit Group: GC_PCB_8082A_IS

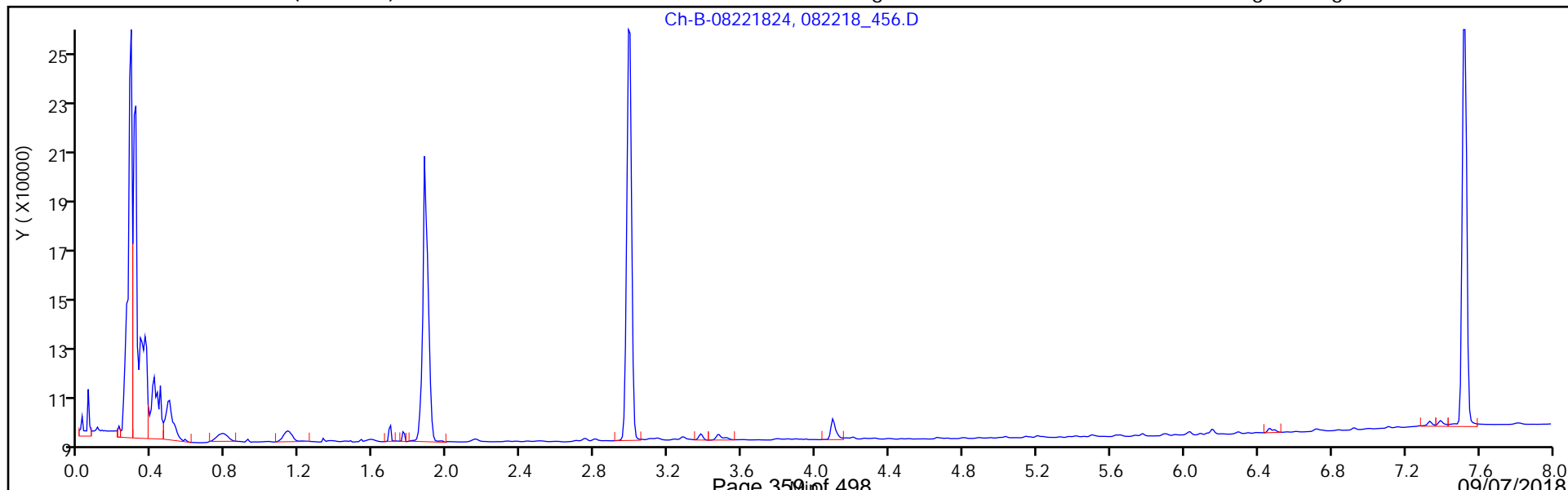
Column: ZB-5 (0.53 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Column: ZB-CLP-Pesticide 2 (0.53 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Chicago
Recovery Report

Data File: \\ChromNA\Chicago\ChromData\GC23-24\20180905-54851.b\082218_456.D
 Lims ID: MB 500-448423/1-A
 Client ID:
 Sample Type: MB
 Inject. Date: 05-Sep-2018 16:22:29 ALS Bottle#: 0 Worklist Smp#: 2
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: #: dc= Name: 082218,pcb23,500-0054851-002
 Operator ID: hamnerb Instrument ID: INST23-24
 Method: \\ChromNA\Chicago\ChromData\GC23-24\20180905-54851.b\8082IS_23-24.m
 Limit Group: GC_PCB_8082A_IS
 Last Update: 06-Sep-2018 09:17:43 Calib Date: 19-Jun-2018 12:05:44
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Chicago\ChromData\GC23-24\20180619-53137.b\060518_182.D
 Column 1 : ZB-5 (0.53 mm) Det: Ch-A-04091547 05-Sep-2018 16:22:29
 Column 2 : ZB-CLP-Pesticide 2 (0.53 mm) Det: Ch-B-04091548 05-Sep-2018 16:38:05
 Process Host: XAWRK025
 First Level Reviewer: hamnerb Date: 06-Sep-2018 09:17:51

Surrogate Recovery, Detector: Ch-A-04091547

Compound	Amount Added	Amount Recovered	% Rec.
\$ 4 Tetrachloro-m-xylene	0.0400	0.0280	70.00
\$ 10 DCB Decachlorobiphenyl	0.0400	0.0341	85.21

Surrogate Recovery, Detector: Ch-B-04091548

Compound	Amount Added	Amount Recovered	% Rec.
\$ 4 Tetrachloro-m-xylene	0.0400	0.0221	55.36
\$ 10 DCB Decachlorobiphenyl	0.0400	0.0244	60.93

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Chicago Job No.: 500-150867-2
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 500-448423/2-A
 Matrix: Solid Lab File ID: 082218_457.D
 Analysis Method: 8082A Date Collected: _____
 Extraction Method: 3510C Date Extracted: 09/05/2018 11:22
 Sample wt/vol: 1000 (mL) Date Analyzed: 09/05/2018 16:38
 Con. Extract Vol.: 10.0 (mL) Dilution Factor: 1
 Injection Volume: 1 (uL) GC Column: ZB-5 ID: 0.53 (mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 448491 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD
12674-11-2	PCB-1016	4.30		0.50	0.16
11096-82-5	PCB-1260	4.61		0.50	0.11

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	79		30-120
2051-24-3	DCB Decachlorobiphenyl	91		30-140

TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\GC23-24\20180905-54851.b\082218_457.D
 Lims ID: LCS 500-448423/2-A
 Client ID:
 Sample Type: LCS
 Inject. Date: 05-Sep-2018 16:38:05 ALS Bottle#: 0 Worklist Smp#: 3
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: #: dc= Name: 082218,pcb23,500-0054851-003
 Operator ID: hamnerb Instrument ID: INST23-24
 Method: \\ChromNA\Chicago\ChromData\GC23-24\20180905-54851.b\8082IS_23-24.m
 Limit Group: GC_PCB_8082A_IS
 Last Update: 06-Sep-2018 09:18:02 Calib Date: 19-Jun-2018 12:05:44
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Chicago\ChromData\GC23-24\20180619-53137.b\060518_182.D
 Column 1 : ZB-5 (0.53 mm) Det: Ch-A-04091547 05-Sep-2018 16:38:05
 Column 2 : ZB-CLP-Pesticide 2 (0.53 mm) Det: Ch-B-04091548 05-Sep-2018 16:53:28
 Process Host: XAWRK025

First Level Reviewer: hamnerb Date: 06-Sep-2018 09:18:02

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
-----	-----------	---------------	---------------	----------	---------------	-----------------	-------

* 3 1-Bromo-2-nitrobenzene

1	1.367	1.375	-0.008	48480H	0.0200	0.0200	
2	1.883	1.883	0.000	81866H	0.0200	0.0200	
Average of Peak Amounts =						0.0200	

\$ 4 Tetrachloro-m-xylene

1	3.067	3.075	-0.008	116105H	0.0400	0.0315	
2	2.983	2.983	0.000	169463H	0.0400	0.0318	
						RPD = 0.93	

1 PCB-1016

1	3.808	3.817	-0.009	39080H	0.5000	0.4251	
1	3.975	3.975	0.000	38241H	0.5000	0.4241	
1	4.192	4.200	-0.008	104344H	0.5000	0.4378	
1	4.275	4.283	-0.008	48751H	0.5000	0.4213	
1	4.733	4.742	-0.009	44617H	0.5000	0.4395	
Average of Peak Amounts =						0.4296	
2	3.875	3.875	0.000	74904H	0.5000	0.5026	
2	4.242	4.250	-0.008	149872H	0.5000	0.4423	
2	4.358	4.358	0.000	77400H	0.5000	0.4563	
2	4.717	4.717	0.000	68476H	0.5000	0.4886	
2	4.808	4.808	0.000	63658H	0.5000	0.4700	
Average of Peak Amounts =						0.4720	
						RPD = 9.41	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
-----	-----------	---------------	---------------	----------	---------------	-----------------	-------

15 PCB-1260

1	5.767	5.767	0.000	101269H	0.5000	0.4477	
1	5.858	5.867	-0.009	51970H	0.5000	0.4369	
1	6.250	6.250	0.000	81423H	0.5000	0.5203	
1	6.442	6.442	0.000	188759H	0.5000	0.4735	
1	5.592	5.600	-0.008	86287H	0.5000	0.4283	

Average of Peak Amounts = 0.4613

2	5.633	5.633	0.000	136717H	0.5000	0.4951	
2	5.775	5.775	0.000	161360H	0.5000	0.4432	
2	5.883	5.892	-0.009	119169H	0.5000	0.3957	
2	6.458	6.467	-0.009	296264H	0.5000	0.4785	
2	6.717	6.717	0.000	173344H	0.5000	0.4816	

Average of Peak Amounts = 0.4588

RPD = 0.55

8 1260 Res 1

1		6.692			ND	ND	
2		6.350					

2 1260 Res 2

1		6.708			ND	ND	U
2		6.392					

5 1260 Res 3

1		6.767			ND	ND	
2		6.425					

\$ 10 DCB Decachlorobiphenyl

1	7.533	7.542	-0.009	131642H	0.0400	0.0363	
2	7.525	7.525	0.000	200661H	0.0400	0.0341	

RPD = 6.21

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

H - Response Measured by Height

Review Flags

U - Marked Undetected

Reagents:

IS8000WRK_00022

Amount Added: 10.00

Units: uL

Run Reagent

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\GC23-24\20180905-54851.b\082218_457.D

Injection Date: 05-Sep-2018 16:38:05

Instrument ID: INST23-24

Operator ID: hamnerb

Lims ID: LCS 500-448423/2-A

Worklist Smp#: 3

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

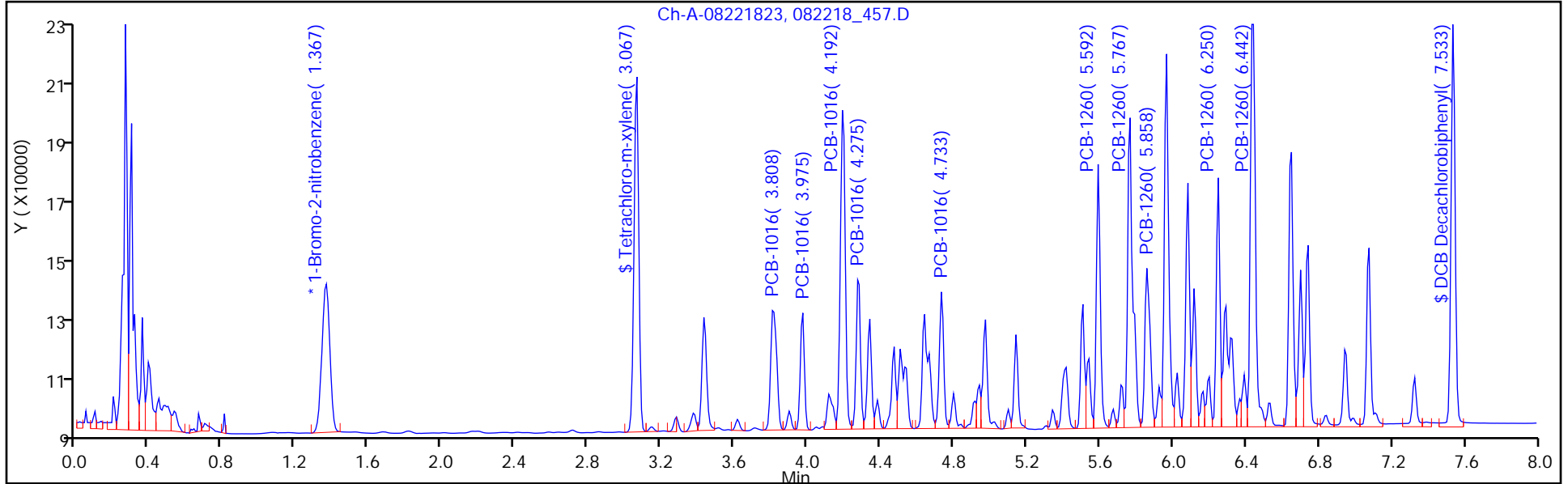
ALS Bottle#: 0

Method: 8082IS_23-24

Limit Group: GC_PCB_8082A_IS

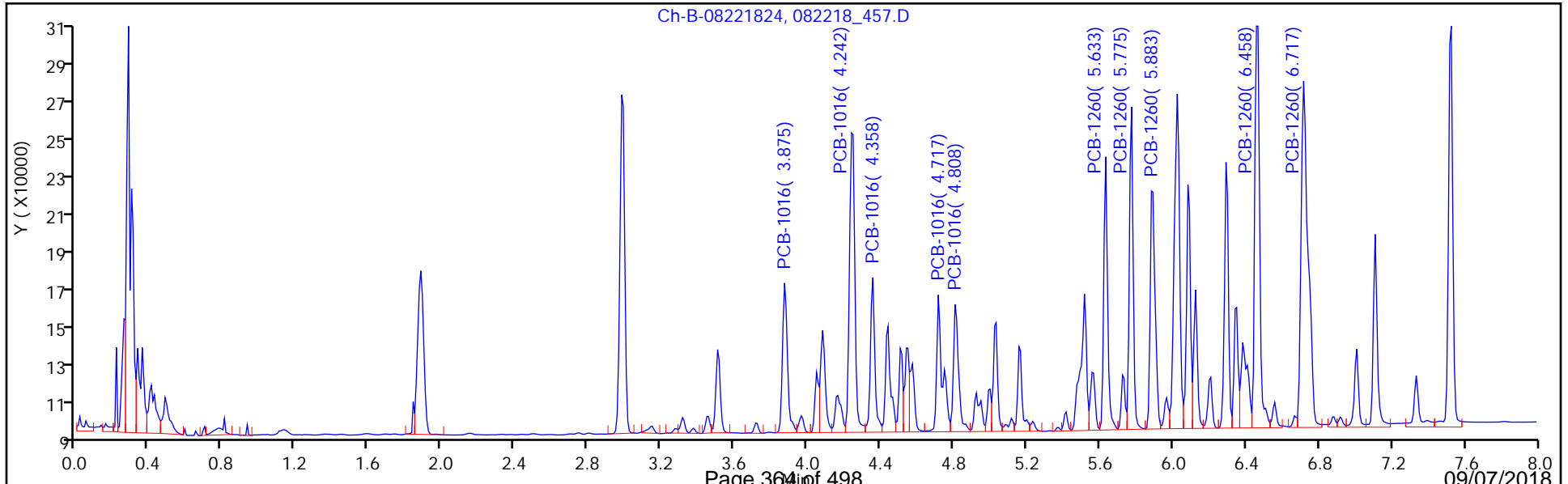
Column: ZB-5 (0.53 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Column: ZB-CLP-Pesticide 2 (0.53 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Chicago
Recovery Report

Data File: \\ChromNA\Chicago\ChromData\GC23-24\20180905-54851.b\082218_457.D
 Lims ID: LCS 500-448423/2-A
 Client ID:
 Sample Type: LCS
 Inject. Date: 05-Sep-2018 16:38:05 ALS Bottle#: 0 Worklist Smp#: 3
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: #: dc= Name: 082218,pcb23,500-0054851-003
 Operator ID: hamnerb Instrument ID: INST23-24
 Method: \\ChromNA\Chicago\ChromData\GC23-24\20180905-54851.b\8082IS_23-24.m
 Limit Group: GC_PCB_8082A_IS
 Last Update: 06-Sep-2018 09:18:02 Calib Date: 19-Jun-2018 12:05:44
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Chicago\ChromData\GC23-24\20180619-53137.b\060518_182.D
 Column 1 : ZB-5 (0.53 mm) Det: Ch-A-04091547 05-Sep-2018 16:38:05
 Column 2 : ZB-CLP-Pesticide 2 (0.53 mm) Det: Ch-B-04091548 05-Sep-2018 16:53:28
 Process Host: XAWRK025
 First Level Reviewer: hamnerb Date: 06-Sep-2018 09:18:02

Surrogate Recovery, Detector: Ch-A-04091547

Compound	Amount Added	Amount Recovered	% Rec.
\$ 4 Tetrachloro-m-xylene	0.0400	0.0315	78.86
\$ 10 DCB Decachlorobiphenyl	0.0400	0.0363	90.82

Surrogate Recovery, Detector: Ch-B-04091548

Compound	Amount Added	Amount Recovered	% Rec.
\$ 4 Tetrachloro-m-xylene	0.0400	0.0318	79.60
\$ 10 DCB Decachlorobiphenyl	0.0400	0.0341	85.36

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\GC23-24\20180905-54851.b\082218_457.D

Injection Date: 05-Sep-2018 16:38:05

Instrument ID: INST23-24

Lims ID: LCS 500-448423/2-A

Client ID:

Operator ID: hamnerb

ALS Bottle#: 0

Worklist Smp#: 3

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: 8082IS_23-24

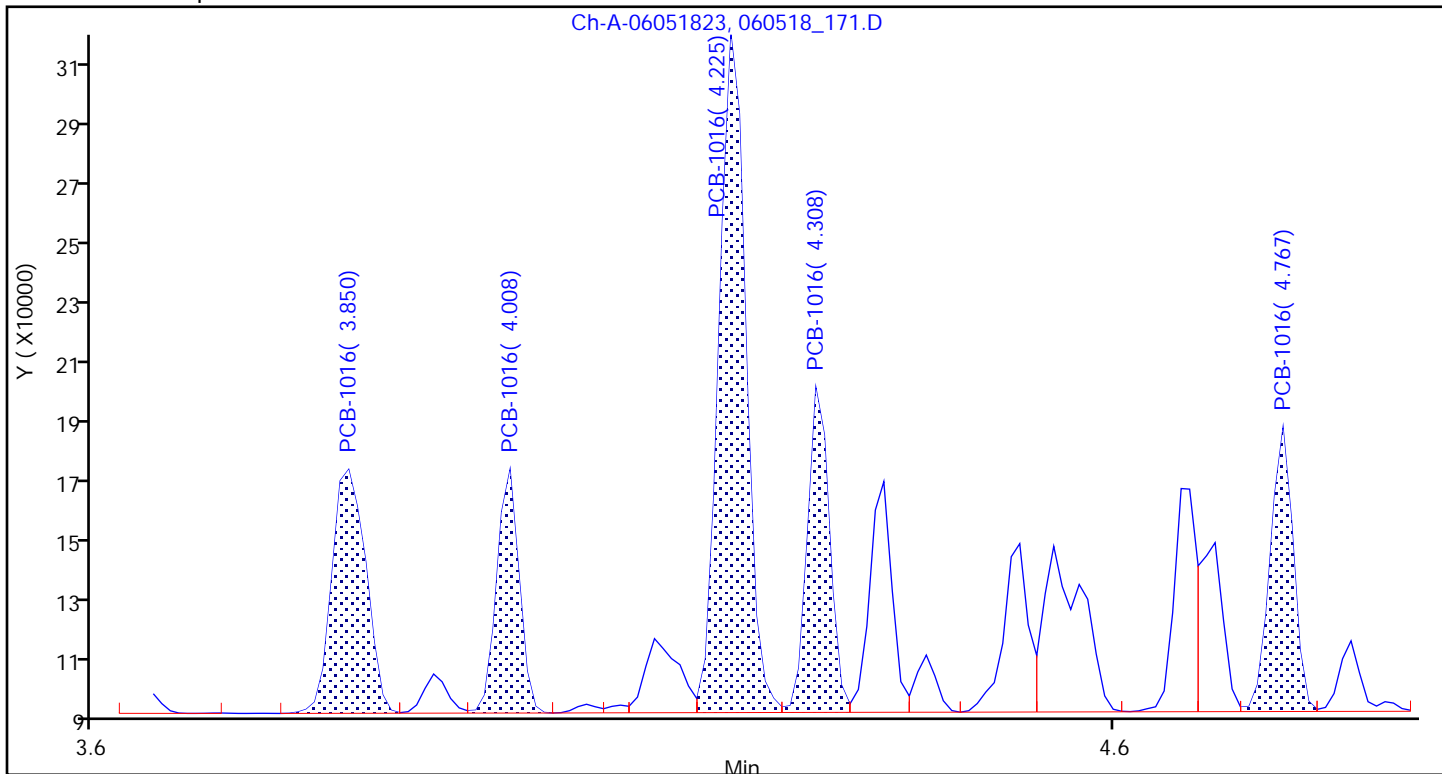
Limit Group: GC_PCB_8082A_IS

Column: ZB-5 (0.53 mm)

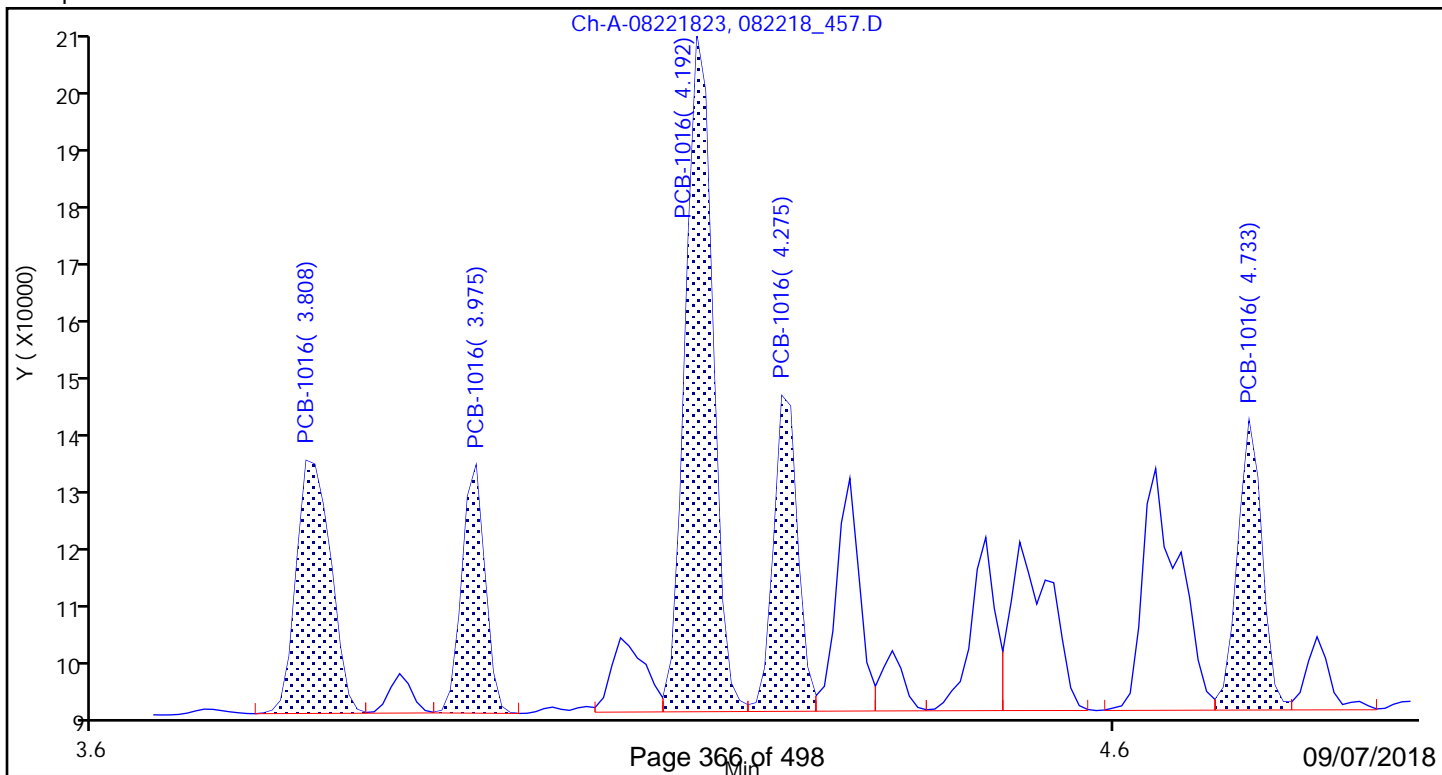
Detector: Ch-A-04091547

1 PCB-1016, CAS: 12674-11-2

Calibration Sample, Level: 6



Sample



TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\GC23-24\20180905-54851.b\082218_457.D

Injection Date: 05-Sep-2018 16:38:05

Instrument ID: INST23-24

Lims ID: LCS 500-448423/2-A

Client ID:

Operator ID: hamnerb

ALS Bottle#: 0

Worklist Smp#: 3

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: 8082IS_23-24

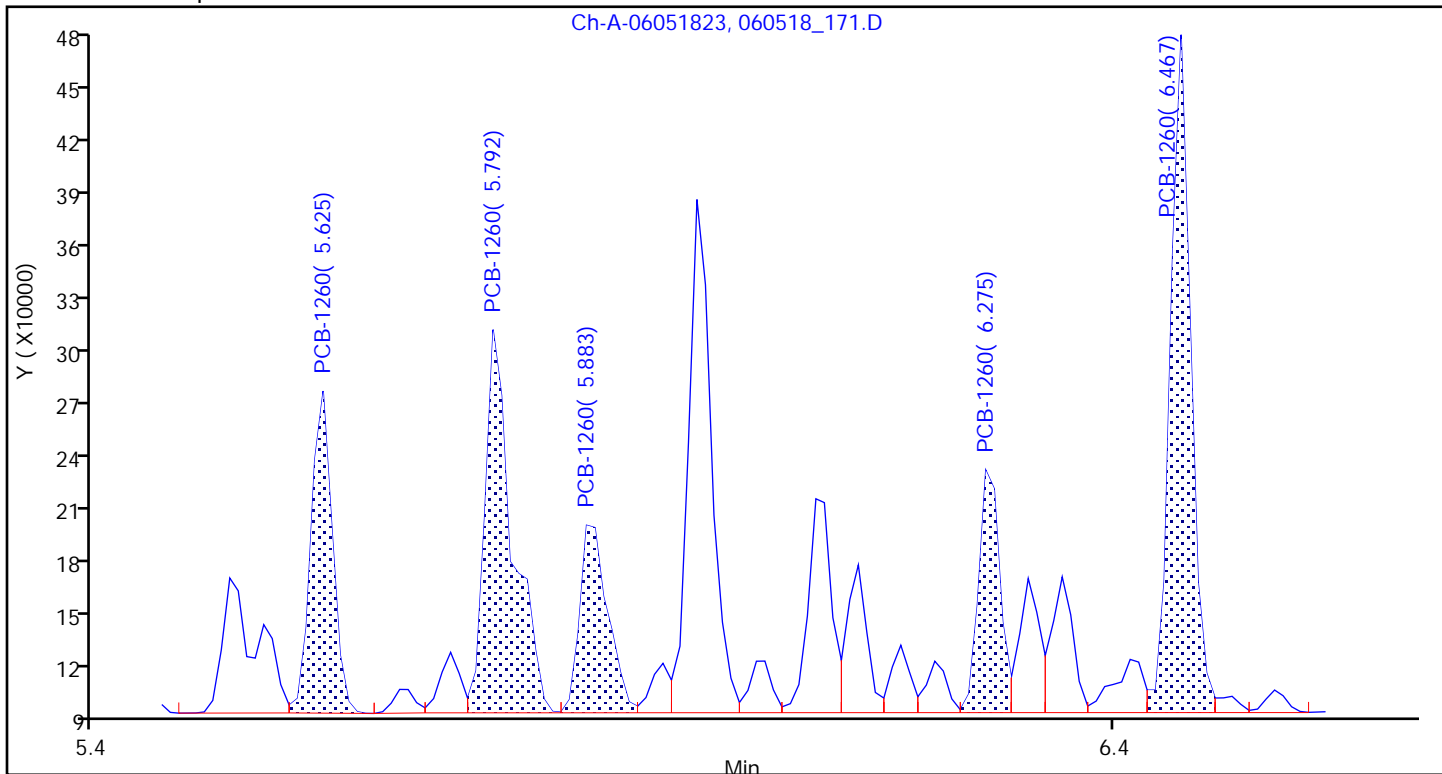
Limit Group: GC_PCB_8082A_IS

Column: ZB-5 (0.53 mm)

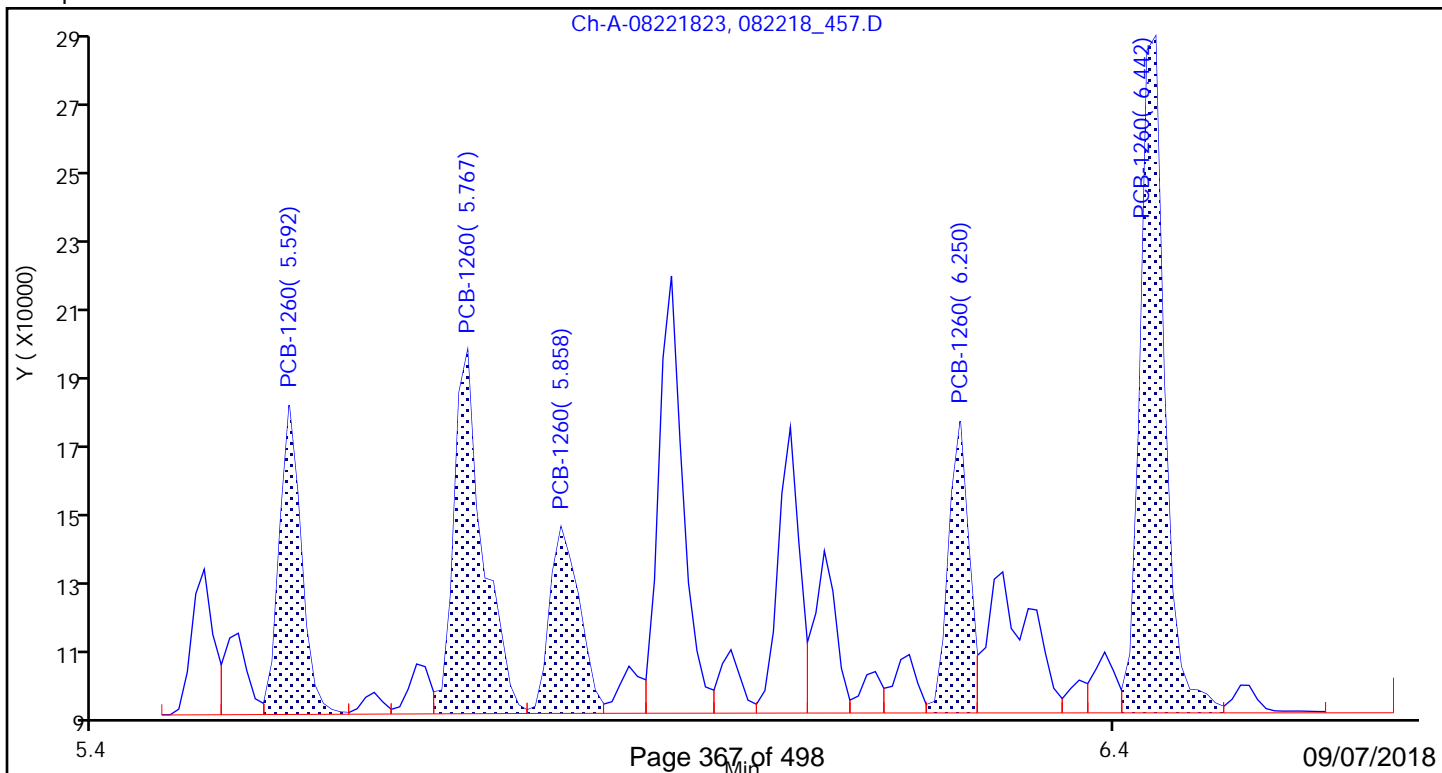
Detector: Ch-A-04091547

15 PCB-1260, CAS: 11096-82-5

Calibration Sample, Level: 6



Sample



PCBS ANALYSIS RUN LOG

Lab Name: TestAmerica Chicago Job No.: 500-150867-2

SDG No.: _____

Instrument ID: INST23-24 Start Date: 06/19/2018 09:16

Analysis Batch Number: 437467 End Date: 06/19/2018 12:05

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
IC 500-437467/1		06/19/2018 09:16	1	060518_171.D	ZB-5 0.53 (mm)
IC 500-437467/1		06/19/2018 09:16	1		ZB-CLP-Pest2 0.53 (mm)
IC 500-437467/2		06/19/2018 09:31	1	060518_172.D	ZB-5 0.53 (mm)
IC 500-437467/2		06/19/2018 09:31	1		ZB-CLP-Pest2 0.53 (mm)
ICIS 500-437467/3		06/19/2018 09:46	1	060518_173.D	ZB-5 0.53 (mm)
ICIS 500-437467/3		06/19/2018 09:46	1		ZB-CLP-Pest2 0.53 (mm)
IC 500-437467/4		06/19/2018 10:02	1	060518_174.D	ZB-5 0.53 (mm)
IC 500-437467/4		06/19/2018 10:02	1		ZB-CLP-Pest2 0.53 (mm)
IC 500-437467/5		06/19/2018 10:17	1	060518_175.D	ZB-5 0.53 (mm)
IC 500-437467/5		06/19/2018 10:17	1		ZB-CLP-Pest2 0.53 (mm)
IC 500-437467/6		06/19/2018 10:33	1	060518_176.D	ZB-5 0.53 (mm)
IC 500-437467/6		06/19/2018 10:33	1		ZB-CLP-Pest2 0.53 (mm)
ICV 500-437467/7		06/19/2018 10:48	1	060518_177.D	ZB-5 0.53 (mm)
ICV 500-437467/7		06/19/2018 10:48	1		ZB-CLP-Pest2 0.53 (mm)
IC 500-437467/9		06/19/2018 11:19	1	060518_179.D	ZB-5 0.53 (mm)
IC 500-437467/9		06/19/2018 11:19	1		ZB-CLP-Pest2 0.53 (mm)
IC 500-437467/10		06/19/2018 11:34	1	060518_180.D	ZB-5 0.53 (mm)
IC 500-437467/10		06/19/2018 11:34	1		ZB-CLP-Pest2 0.53 (mm)
IC 500-437467/11		06/19/2018 11:50	1	060518_181.D	ZB-5 0.53 (mm)
IC 500-437467/11		06/19/2018 11:50	1		ZB-CLP-Pest2 0.53 (mm)
IC 500-437467/12		06/19/2018 12:05	1	060518_182.D	ZB-5 0.53 (mm)
IC 500-437467/12		06/19/2018 12:05	1		ZB-CLP-Pest2 0.53 (mm)

PCBS ANALYSIS RUN LOG

Lab Name: TestAmerica Chicago Job No.: 500-150867-2

SDG No.: _____

Instrument ID: INST23-24 Start Date: 09/05/2018 16:07

Analysis Batch Number: 448491 End Date: 09/05/2018 23:18

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCVIS 500-448491/1		09/05/2018 16:07	1	082218_455.D	ZB-5 0.53 (mm)
CCVIS 500-448491/1		09/05/2018 16:07	1		ZB-CLP-Pest2 0.53 (mm)
MB 500-448423/1-A		09/05/2018 16:22	1	082218_456.D	ZB-5 0.53 (mm)
ZZZZZ		09/05/2018 16:22	1		ZB-CLP-Pest2 0.53 (mm)
LCS 500-448423/2-A		09/05/2018 16:38	1	082218_457.D	ZB-5 0.53 (mm)
ZZZZZ		09/05/2018 16:38	1		ZB-CLP-Pest2 0.53 (mm)
500-150867-5		09/05/2018 16:53	1	082218_458.D	ZB-5 0.53 (mm)
ZZZZZ		09/05/2018 16:53	1		ZB-CLP-Pest2 0.53 (mm)
ZZZZZ		09/05/2018 17:39	1		ZB-5 0.53 (mm)
ZZZZZ		09/05/2018 17:39	1		ZB-CLP-Pest2 0.53 (mm)
ZZZZZ		09/05/2018 17:55	1		ZB-5 0.53 (mm)
ZZZZZ		09/05/2018 17:55	1		ZB-CLP-Pest2 0.53 (mm)
ZZZZZ		09/05/2018 18:10	10		ZB-5 0.53 (mm)
ZZZZZ		09/05/2018 18:10	10		ZB-CLP-Pest2 0.53 (mm)
ZZZZZ		09/05/2018 18:25	10		ZB-5 0.53 (mm)
ZZZZZ		09/05/2018 18:25	10		ZB-CLP-Pest2 0.53 (mm)
ZZZZZ		09/05/2018 18:41	10		ZB-5 0.53 (mm)
ZZZZZ		09/05/2018 18:41	10		ZB-CLP-Pest2 0.53 (mm)
ZZZZZ		09/05/2018 18:56	10		ZB-5 0.53 (mm)
ZZZZZ		09/05/2018 18:56	10		ZB-CLP-Pest2 0.53 (mm)
ZZZZZ		09/05/2018 19:12	10		ZB-5 0.53 (mm)
ZZZZZ		09/05/2018 19:12	10		ZB-CLP-Pest2 0.53 (mm)
ZZZZZ		09/05/2018 19:27	10		ZB-5 0.53 (mm)
ZZZZZ		09/05/2018 19:27	10		ZB-CLP-Pest2 0.53 (mm)
ZZZZZ		09/05/2018 19:43	10		ZB-5 0.53 (mm)
ZZZZZ		09/05/2018 19:43	10		ZB-CLP-Pest2 0.53 (mm)
ZZZZZ		09/05/2018 19:58	10		ZB-5 0.53 (mm)
ZZZZZ		09/05/2018 19:58	10		ZB-CLP-Pest2 0.53 (mm)
ZZZZZ		09/05/2018 20:13	10		ZB-5 0.53 (mm)
ZZZZZ		09/05/2018 20:13	10		ZB-CLP-Pest2 0.53 (mm)
ZZZZZ		09/05/2018 20:29	10		ZB-5 0.53 (mm)
ZZZZZ		09/05/2018 20:29	10		ZB-CLP-Pest2 0.53 (mm)
ZZZZZ		09/05/2018 20:44	10		ZB-5 0.53 (mm)
ZZZZZ		09/05/2018 20:44	10		ZB-CLP-Pest2 0.53 (mm)
ZZZZZ		09/05/2018 21:00	10		ZB-5 0.53 (mm)
ZZZZZ		09/05/2018 21:00	10		ZB-CLP-Pest2 0.53 (mm)
ZZZZZ		09/05/2018 21:15	10		ZB-5 0.53 (mm)
ZZZZZ		09/05/2018 21:15	10		ZB-CLP-Pest2 0.53 (mm)
ZZZZZ		09/05/2018 21:30	10		ZB-5 0.53 (mm)
ZZZZZ		09/05/2018 21:30	10		ZB-CLP-Pest2 0.53 (mm)
ZZZZZ		09/05/2018 21:46	10		ZB-5 0.53 (mm)
ZZZZZ		09/05/2018 21:46	10		ZB-CLP-Pest2 0.53 (mm)
ZZZZZ		09/05/2018 22:01	10		ZB-5 0.53 (mm)
ZZZZZ		09/05/2018 22:01	10		ZB-CLP-Pest2 0.53 (mm)
ZZZZZ		09/05/2018 22:16	10		ZB-5 0.53 (mm)

PCBS ANALYSIS RUN LOG

Lab Name: TestAmerica Chicago Job No.: 500-150867-2

SDG No.: _____

Instrument ID: INST23-24 Start Date: 09/05/2018 16:07

Analysis Batch Number: 448491 End Date: 09/05/2018 23:18

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		09/05/2018 22:16	10		ZB-CLP-Pest2 0.53 (mm)
ZZZZZ		09/05/2018 22:32	10		ZB-5 0.53 (mm)
ZZZZZ		09/05/2018 22:32	10		ZB-CLP-Pest2 0.53 (mm)
ZZZZZ		09/05/2018 22:47	10		ZB-5 0.53 (mm)
ZZZZZ		09/05/2018 22:47	10		ZB-CLP-Pest2 0.53 (mm)
ZZZZZ		09/05/2018 23:03	10		ZB-5 0.53 (mm)
ZZZZZ		09/05/2018 23:03	10		ZB-CLP-Pest2 0.53 (mm)
ZZZZZ		09/05/2018 23:18	1		ZB-5 0.53 (mm)
ZZZZZ		09/05/2018 23:18	1		ZB-CLP-Pest2 0.53 (mm)

PCBS BATCH WORKSHEET

Lab Name: TestAmerica Chicago Job No.: 500-150867-2

SDG No.: _____

Batch Number: 448263 Batch Start Date: 09/04/18 12:10 Batch Analyst: Christensen, Justin L

Batch Method: D3987-85 Batch End Date: 09/05/18 06:10

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount				
500-150867-A-5	Leachate Solids	D3987-85, 3510C, 8082A	Y	1 g	1 mL				

Batch Notes	
Batch Comment	T498

Basis	Basis Description
Y	ASTM Leach

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.

PCBS BATCH WORKSHEET

Lab Name: TestAmerica Chicago Job No.: 500-150867-2

SDG No.: _____

Batch Number: 448423 Batch Start Date: 09/05/18 11:22 Batch Analyst: Smykowski, Justin

Batch Method: 3510C Batch End Date: 09/05/18 11:50

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	ReceivedpH	EXCPPSUW 00979	EXPCBSPW66 00162	
MB 500-448423/1		3510C, 8082A		1000 mL	10.0 mL	6 SU	1000 uL		
LCS 500-448423/2		3510C, 8082A		1000 mL	10.0 mL	6 SU	1000 uL	1000 uL	
500-150867-A-5-A	Leachate Solids	3510C, 8082A	Y	10 mL	10.0 mL	6 SU	1000 uL		

Batch Notes	
Balance ID	C-2619
Analyst ID - Concentration	JP
Concentration 1 Corrected Temperature	37.5, 38.5, 38.5, 39.0 Degrees C
Equipment ID - Concentration 1	C-2394, C-2177, C-2175, C-2176
Equipment ID - Concentration 2	C-0655
Exchange Solvent ID	Hexane: 4895103
Analyst ID - Extraction	DAK, JS
Glass Wool ID	4811494
Na2SO4 ID	4902663
pH Indicator ID	3816, 220416A
Pipette/Syringe/Dispenser ID	B43, B46
Prep Solvent ID	DCM:4910622
Prep Solvent Volume Used	180 mL
Analyst ID - Spike Analyst	JS
Analyst ID - Spike Witness Analyst	DAK
Sufficient Volume for Batch QC	Y
Thermometer ID - Concentration 1	VEEGEE#6
Thermometer ID - Concentration 2	30.0
Concentration 1 Uncorrected Temperature	39.0, 40.0, 40.0, 40.5 Degrees C
Concentration 2 Uncorrected Temperature	30.0 Degrees C

Basis	Basis Description
Y	ASTM Leach

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS

COVER PAGE
METALS

Lab Name: TestAmerica Chicago Job Number: 500-150867-2

SDG No.: _____

Project: Rock River Sediment Removal, Janesville

Client Sample ID	Lab Sample ID
<u>Leachate Solids</u>	<u>500-150867-5</u>

Comments:

1A-IN
 INORGANIC ANALYSIS DATA SHEET
 METALS - ASTM LEACH

Client Sample ID: Leachate Solids

Lab Sample ID: 500-150867-5

Lab Name: TestAmerica Chicago

Job No.: 500-150867-2

SDG ID.: _____

Matrix: Solid

Date Sampled: 08/31/2018 15:55

Reporting Basis: WET

Date Received: 09/01/2018 10:28

CAS No.	Analyte	Result	LOQ	LOD	Units	C	Q	DIL	Method
7440-38-2	Arsenic	3.1	50	2.0	ug/L	J		1	6020A
7440-39-3	Barium	<50	500	50	ug/L			1	6020A
7440-43-9	Cadmium	<1.0	5.0	1.0	ug/L			1	6020A
7440-47-3	Chromium	<5.0	25	5.0	ug/L			1	6020A
7439-92-1	Lead	<2.0	50	2.0	ug/L			1	6020A
7782-49-2	Selenium	<10	50	10	ug/L		^	1	6020A
7440-22-4	Silver	<5.0	25	5.0	ug/L			1	6020A
7439-97-6	Mercury	<0.20	0.20	0.20	ug/L			1	7470A

2A-IN
 CALIBRATION VERIFICATIONS
 METALS

Lab Name: TestAmerica Chicago Job No.: 500-150867-2

SDG No.: _____

ICV Source: M18FICVMS_00002 Concentration Units: ug/L

CCV Source: M18GCCVMS_00001

Analyte	ICV 500-448589/6 09/05/2018 17:01				CCV 500-448589/48 09/05/2018 18:15				CCV 500-448589/56 09/05/2018 18:29			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Barium	197		200	99	260		250	104	261		250	105
Lead	194		200	97	259		250	104	261		250	104
<i>Arsenic</i>	196		200	98	239		250	96	240		250	96
<i>Cadmium</i>	202		200	101	252		250	101	252		250	101
<i>Selenium</i>	202		200	101	247		250	99	246		250	99
<i>Silver</i>	42.8		40.0	107	52.9		50.0	106	52.7		50.0	105

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
 Italicized analytes were not requested for this sequence.

2A-IN
 CALIBRATION VERIFICATIONS
 METALS

Lab Name: TestAmerica Chicago Job No.: 500-150867-2

SDG No.: _____

ICV Source: M18GMRLMS_00001 Concentration Units: ug/L

CCV Source: M18GMRLMS_00001

Analyte	ICVL 500-448589/8 09/05/2018 17:05				CCVL 500-448589/58 09/05/2018 18:33							
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Barium	<50		2.50	102	<50		2.50	106				
Lead	<2.0		0.500	99	<2.0		0.500	99				
<i>Cadmium</i>	<1.0		0.500	102	<1.0		0.500	108				
<i>Chromium</i>	5.68		5.00	114	5.13		5.00	103				
<i>Selenium</i>	<10		2.50	94	<10		2.50	93				
<i>Silver</i>	<5.0		0.500	117	<5.0		0.500	117				

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
 Italicized analytes were not requested for this sequence.

2A-IN
 CALIBRATION VERIFICATIONS
 METALS

Lab Name: TestAmerica Chicago Job No.: 500-150867-2

SDG No.: _____

ICV Source: M18FICVMS_00002 Concentration Units: ug/L

CCV Source: M18GCCVMS_00001

Analyte	ICV 500-448593/7 09/05/2018 15:08				CCV 500-448593/73 09/05/2018 19:18				CCV 500-448593/84 09/05/2018 20:00			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Arsenic	199		200	100	257		250	103	255		250	102
Cadmium	205		200	103	264		250	106	264		250	106
Chromium	202		200	101	260		250	104	256		250	102
Selenium	200		200	100	257		250	103	254		250	102
Silver	41.7		40.0	104	53.9		50.0	108	53.8		50.0	108
<i>Barium</i>	200		200	100	254		250	101	253		250	101
<i>Lead</i>	204		200	102	264		250	106	264		250	105

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
 Italicized analytes were not requested for this sequence.

2A-IN
 CALIBRATION VERIFICATIONS
 METALS

Lab Name: TestAmerica Chicago Job No.: 500-150867-2

SDG No.: _____

ICV Source: M18GMRLMS_00001 Concentration Units: ug/L

CCV Source: M18GMRLMS_00001

Analyte	ICVL 500-448593/12 09/05/2018 15:27				CCVL 500-448593/75 09/05/2018 19:26				CCVL 500-448593/86 09/05/2018 20:07			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Arsenic	<2.0		1.00	95	<2.0		1.00	92	<2.0		1.00	94
Cadmium	<1.0		0.500	108	<1.0		0.500	114	<1.0		0.500	109
Chromium	5.48		5.00	110	5.34		5.00	107	5.26		5.00	105
Selenium	<10		2.50	114	<10		2.50	103	<10		2.50	96
Silver	<5.0		0.500	108	<5.0		0.500	113	<5.0		0.500	113

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
 Italicized analytes were not requested for this sequence.

2A-IN
 CALIBRATION VERIFICATIONS
 METALS

Lab Name: TestAmerica Chicago Job No.: 500-150867-2

SDG No.: _____

ICV Source: M18ESTKHG_00001 Concentration Units: ug/L

CCV Source: M18ESTKHG_00001

Analyte	ICV 500-448602/7 09/06/2018 07:58				CCV 500-448602/19 09/06/2018 08:20				CCV 500-448602/31 09/06/2018 08:40			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury	1.92		2.00	96	0.964		1.00	96	0.957		1.00	96

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
 Italicized analytes were not requested for this sequence.

2A-IN
 CALIBRATION VERIFICATIONS
 METALS

Lab Name: TestAmerica Chicago Job No.: 500-150867-2

SDG No.: _____

ICV Source: M18ESTKHG_00001 Concentration Units: ug/L

CCV Source: M18ESTKHG_00001

Analyte	CCV 500-448602/43 09/06/2018 09:00											
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury	0.934		1.00	93								

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
 Italicized analytes were not requested for this sequence.

2B-IN
CRQL CHECK STANDARD
METALS

Lab Name: TestAmerica Chicago Job No.: 500-150867-2
 SDG No.: _____
 Method: 6020A Instrument ID: ICPMS2
 Lab Sample ID: CRI 500-448589/9 Concentration Units: ug/L
 CRQL Check Standard Source: M18GCRIMS_00001

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Barium	5.00	<50		105	50-150
Cadmium	1.00	1.04		104	50-150
Chromium	10.0	11.0		110	50-150
Lead	1.00	<2.0		101	50-150
Selenium	5.00	<10		97	50-150
Silver	1.00	<5.0		112	50-150

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

2B-IN
CRQL CHECK STANDARD
METALS

Lab Name: TestAmerica Chicago Job No.: 500-150867-2
 SDG No.: _____
 Method: 6020A Instrument ID: ICPMS4
 Lab Sample ID: CRI 500-448593/13 Concentration Units: ug/L
 CRQL Check Standard Source: M18GCRIMS_00001

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Arsenic	2.00	<2.0		99	50-150
Barium	5.00	<50		103	50-150
Cadmium	1.00	1.00		100	50-150
Chromium	10.0	10.6		106	50-150
Lead	1.00	<2.0		110	50-150
Selenium	5.00	<10		103	50-150
Silver	1.00	<5.0		110	50-150

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

2B-IN
CRQL CHECK STANDARD
METALS

Lab Name: TestAmerica Chicago Job No.: 500-150867-2
 SDG No.: _____
 Method: 7470A Instrument ID: HG6
 Lab Sample ID: CRA 500-448602/9 Concentration Units: ug/L
 CRQL Check Standard Source: M18BSTKHG_00001

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Mercury	0.200	<0.20		91	50-150

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

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Chicago Job No.: 500-150867-2

SDG No.: _____

Concentration Units: ug/L

Analyte	RL	ICB 500-448589/7 09/05/2018 17:03		CCB 500-448589/49 09/05/2018 18:17		CCB 500-448589/57 09/05/2018 18:31		Found	C
		Found	C	Found	C	Found	C		
Barium	50	<50		<50		<50			
Lead	5.0	<2.0		<2.0		<2.0			
<i>Arsenic</i>	5.0	<2.0		<2.0		<2.0			
<i>Cadmium</i>	1.0	<1.0		<1.0		<1.0			
<i>Chromium</i>	5.0	<5.0		<5.0		<5.0			
<i>Selenium</i>	10	<10		<10		<10			
<i>Silver</i>	5.0	<5.0		<5.0		<5.0			

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Chicago Job No.: 500-150867-2

SDG No.: _____

Concentration Units: ug/L

Analyte	RL	ICB 500-448593/8 09/05/2018 15:12		CCB 500-448593/74 09/05/2018 19:22		CCB 500-448593/85 09/05/2018 20:04		Found	C
		Found	C	Found	C	Found	C		
Arsenic	5.0	<2.0		<2.0		<2.0			
Cadmium	1.0	<1.0		<1.0		<1.0			
Chromium	5.0	<5.0		<5.0		<5.0			
Selenium	10	<10		<10		<10			
Silver	5.0	<5.0		<5.0		<5.0			
<i>Barium</i>	50	<50		<50		<50			
<i>Lead</i>	5.0	<2.0		<2.0		<2.0			

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Chicago Job No.: 500-150867-2

SDG No.: _____

Concentration Units: ug/L

Analyte	RL	ICB 500-448602/8 09/06/2018 08:00		CCB 500-448602/20 09/06/2018 08:22		CCB 500-448602/32 09/06/2018 08:42		CCB 500-448602/44 09/06/2018 09:01	
		Found	C	Found	C	Found	C	Found	C
Mercury	0.20	<0.20		<0.20		<0.20		<0.20	

Italicized analytes were not requested for this sequence.

3-IN
METHOD BLANK
METALS - ASTM LEACH

Lab Name: TestAmerica Chicago Job No.: 500-150867-2
SDG No.: _____
Concentration Units: ug/L Lab Sample ID: LB3 500-448263/1-B
Instrument Code: ICPMS2 Batch No.: 448589

CAS No.	Analyte	Concentration	C	Q	Method
7440-39-3	Barium	<50			6020A
7439-92-1	Lead	<2.0			6020A

3-IN
METHOD BLANK
METALS - ASTM LEACH

Lab Name: TestAmerica Chicago Job No.: 500-150867-2
SDG No.: _____
Concentration Units: ug/L Lab Sample ID: LB3 500-448263/1-B
Instrument Code: ICPMS4 Batch No.: 448593

CAS No.	Analyte	Concentration	C	Q	Method
7440-38-2	Arsenic	<2.0			6020A
7440-43-9	Cadmium	<1.0			6020A
7440-47-3	Chromium	<5.0			6020A
7782-49-2	Selenium	<10		^	6020A
7440-22-4	Silver	<5.0			6020A

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Chicago Job No.: 500-150867-2
SDG No.: _____
Concentration Units: ug/L Lab Sample ID: MB 500-448425/12-A
Instrument Code: HG6 Batch No.: 448602

CAS No.	Analyte	Concentration	C	Q	Method
7439-97-6	Mercury	<0.20			7470A

3-IN
METHOD BLANK
METALS - ASTM LEACH

Lab Name: TestAmerica Chicago Job No.: 500-150867-2
SDG No.: _____
Concentration Units: ug/L Lab Sample ID: LB3 500-448263/1-E
Instrument Code: HG6 Batch No.: 448602

CAS No.	Analyte	Concentration	C	Q	Method
7439-97-6	Mercury	<0.20			7470A

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Chicago Job No.: 500-150867-2
 SDG No.: _____
 Lab Sample ID: ICSA 500-448589/10 Instrument ID: ICPMS2
 Lab File ID: MS2090518A.csv ICS Source: M18HICSAMS_00005
 Concentration Units: ug/L

Analyte	True Solution A	Found Solution A	Percent Recovery
Barium		0.0350	
Lead		0.0930	
<i>Aluminum</i>	<i>100000</i>	<i>89590</i>	<i>90</i>
<i>Antimony</i>		<i>-0.488</i>	
<i>Arsenic</i>		<i>-2.85</i>	
<i>Beryllium</i>		<i>0.0460</i>	
<i>Boron</i>		<i>3.69</i>	
<i>Calcium</i>	<i>100000</i>	<i>106600</i>	<i>107</i>
<i>Chromium</i>		<i>-0.0060</i>	
<i>Cobalt</i>		<i>0.0760</i>	
<i>Copper</i>		<i>1.33</i>	
<i>Iron</i>	<i>100000</i>	<i>110800</i>	<i>111</i>
<i>Magnesium</i>	<i>100000</i>	<i>88520</i>	<i>89</i>
<i>Manganese</i>		<i>-0.765</i>	
<i>Molybdenum</i>	<i>2000</i>	<i>2167</i>	<i>108</i>
<i>Nickel</i>		<i>0.610</i>	
<i>Potassium</i>	<i>100000</i>	<i>101200</i>	<i>101</i>
<i>Selenium</i>		<i>0.466</i>	
<i>Silver</i>		<i>0.0170</i>	
<i>Sodium</i>	<i>100000</i>	<i>86790</i>	<i>87</i>
<i>Strontium</i>		<i>0.999</i>	
<i>Thallium</i>		<i>0.0330</i>	
<i>Tin</i>		<i>-0.0540</i>	
<i>Titanium</i>	<i>2000</i>	<i>2079</i>	<i>104</i>
<i>Zinc</i>		<i>1.53</i>	

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

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Chicago

Job No.: 500-150867-2

SDG No.: _____

Lab Sample ID: ICSAB 500-448589/11

Instrument ID: ICPMS2

Lab File ID: MS2090518A.csv

ICS Source: M18HICSABMS_00006

Concentration Units: ug/L

Analyte	True	Found	Percent Recovery
	Solution AB	Solution AB	
Barium	20.0	22.7	114
Lead	20.0	21.6	108
<i>Aluminum</i>	<i>100000</i>	<i>88010</i>	<i>88</i>
<i>Antimony</i>	<i>20.0</i>	<i>22.1</i>	<i>110</i>
<i>Arsenic</i>	<i>20.0</i>	<i>16.6</i>	<i>83</i>
<i>Beryllium</i>	<i>20.0</i>	<i>21.0</i>	<i>105</i>
<i>Boron</i>	<i>50.0</i>	<i>53.5</i>	<i>107</i>
<i>Cadmium</i>	<i>20.0</i>	<i>20.6</i>	<i>103</i>
<i>Calcium</i>	<i>100000</i>	<i>105400</i>	<i>105</i>
<i>Chromium</i>	<i>20.0</i>	<i>23.0</i>	<i>115</i>
<i>Cobalt</i>	<i>20.0</i>	<i>23.0</i>	<i>115</i>
<i>Copper</i>	<i>20.0</i>	<i>22.0</i>	<i>110</i>
<i>Iron</i>	<i>100000</i>	<i>108500</i>	<i>109</i>
<i>Magnesium</i>	<i>100000</i>	<i>85810</i>	<i>86</i>
<i>Manganese</i>	<i>20.0</i>	<i>23.3</i>	<i>116</i>
<i>Molybdenum</i>	<i>2000</i>	<i>2106</i>	<i>105</i>
<i>Nickel</i>	<i>20.0</i>	<i>20.7</i>	<i>104</i>
<i>Potassium</i>	<i>100000</i>	<i>99160</i>	<i>99</i>
<i>Selenium</i>	<i>20.0</i>	<i>20.6</i>	<i>103</i>
<i>Silver</i>	<i>20.0</i>	<i>19.5</i>	<i>97</i>
<i>Sodium</i>	<i>100000</i>	<i>84390</i>	<i>84</i>
<i>Strontium</i>	<i>20.0</i>	<i>23.7</i>	<i>119</i>
<i>Thallium</i>	<i>20.0</i>	<i>21.0</i>	<i>105</i>
<i>Tin</i>		<i>-0.0400</i>	
<i>Titanium</i>	<i>2000</i>	<i>2023</i>	<i>101</i>
<i>Zinc</i>	<i>20.0</i>	<i>21.6</i>	<i>108</i>

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

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Chicago

Job No.: 500-150867-2

SDG No.: _____

Lab Sample ID: ICSA 500-448593/10

Instrument ID: ICPMS4

Lab File ID: 010ICSA.d

ICS Source: M18HICSAMS_00005

Concentration Units: ug/L

Analyte	True Solution A	Found Solution A	Percent Recovery
Arsenic		-0.209	
Cadmium		0.110	
Chromium		-0.847	
Selenium		0.790	
Silver		0.0250	
<i>Aluminum</i>	<i>100000</i>	<i>100712</i>	<i>101</i>
<i>Antimony</i>		<i>0.0600</i>	
<i>Barium</i>		<i>0.0580</i>	
<i>Beryllium</i>		<i>0.0230</i>	
<i>Boron</i>		<i>-0.684</i>	
<i>Calcium</i>	<i>100000</i>	<i>99414</i>	<i>99</i>
<i>Cobalt</i>		<i>0.196</i>	
<i>Copper</i>		<i>0.339</i>	
<i>Iron</i>	<i>100000</i>	<i>95410</i>	<i>95</i>
<i>Lead</i>		<i>0.105</i>	
<i>Magnesium</i>	<i>100000</i>	<i>99553</i>	<i>100</i>
<i>Manganese</i>		<i>0.675</i>	
<i>Molybdenum</i>	<i>2000</i>	<i>2039</i>	<i>102</i>
<i>Nickel</i>		<i>0.366</i>	
<i>Potassium</i>	<i>100000</i>	<i>100614</i>	<i>101</i>
<i>Sodium</i>	<i>100000</i>	<i>98192</i>	<i>98</i>
<i>Strontium</i>		<i>0.966</i>	
<i>Thallium</i>		<i>0.0220</i>	
<i>Tin</i>		<i>0.0120</i>	
<i>Titanium</i>	<i>2000</i>	<i>1992</i>	<i>100</i>
<i>Vanadium</i>		<i>-2.39</i>	
<i>Zinc</i>		<i>0.895</i>	

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

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Chicago

Job No.: 500-150867-2

SDG No.: _____

Lab Sample ID: ICSAB 500-448593/11

Instrument ID: ICPMS4

Lab File ID: 011ICSB.d

ICS Source: M18HICSABMS_00006

Concentration Units: ug/L

Analyte	True	Found	Percent Recovery
	Solution AB	Solution AB	
Arsenic	20.0	23.0	115
Cadmium	20.0	22.4	112
Chromium	20.0	19.4	97
Selenium	20.0	24.6	123
Silver	20.0	22.4	112
<i>Aluminum</i>	<i>100000</i>	<i>100934</i>	<i>101</i>
<i>Antimony</i>	<i>20.0</i>	<i>22.6</i>	<i>113</i>
<i>Barium</i>	<i>20.0</i>	<i>21.0</i>	<i>105</i>
<i>Beryllium</i>	<i>20.0</i>	<i>18.9</i>	<i>95</i>
<i>Boron</i>	<i>50.0</i>	<i>50.3</i>	<i>101</i>
<i>Calcium</i>	<i>100000</i>	<i>100137</i>	<i>100</i>
<i>Cobalt</i>	<i>20.0</i>	<i>20.4</i>	<i>102</i>
<i>Copper</i>	<i>20.0</i>	<i>23.3</i>	<i>116</i>
<i>Iron</i>	<i>100000</i>	<i>96905</i>	<i>97</i>
<i>Lead</i>	<i>20.0</i>	<i>20.8</i>	<i>104</i>
<i>Magnesium</i>	<i>100000</i>	<i>99917</i>	<i>100</i>
<i>Manganese</i>	<i>20.0</i>	<i>21.2</i>	<i>106</i>
<i>Molybdenum</i>	<i>2000</i>	<i>2117</i>	<i>106</i>
<i>Nickel</i>	<i>20.0</i>	<i>20.2</i>	<i>101</i>
<i>Potassium</i>	<i>100000</i>	<i>101892</i>	<i>102</i>
<i>Sodium</i>	<i>100000</i>	<i>99096</i>	<i>99</i>
<i>Thallium</i>	<i>20.0</i>	<i>20.2</i>	<i>101</i>
<i>Tin</i>		<i>-0.0040</i>	
<i>Titanium</i>	<i>2000</i>	<i>2024</i>	<i>101</i>
<i>Vanadium</i>	<i>20.0</i>	<i>18.0</i>	<i>90</i>
<i>Zinc</i>	<i>20.0</i>	<i>23.9</i>	<i>120</i>

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

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 500-448398/2-A

Lab Name: TestAmerica Chicago

Job No.: 500-150867-2

Sample Matrix: Water

LCS Source: M18HSPKMS_00003

Analyte	Water (ug/L)							
	True	Found	C	%R	Limits		Q	Method
Barium	500	480	J	96	80	120		6020A
Lead	100	107		107	80	120		6020A

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

FORM VIIA - IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 500-448398/2-A

Lab Name: TestAmerica Chicago

Job No.: 500-150867-2

Sample Matrix: Water

LCS Source: M18HSPKMS_00003

Analyte	Water (ug/L)							
	True	Found	C	%R	Limits		Q	Method
Arsenic	100	97.4		97	80	120		6020A
Cadmium	50.0	50.8		102	80	120		6020A
Chromium	200	205		102	80	120		6020A
Selenium	100	98.7		99	80	120	^	6020A
Silver	50.0	52.9		106	80	120		6020A

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

FORM VIIA - IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 500-448425/13-A

Lab Name: TestAmerica Chicago

Job No.: 500-150867-2

Sample Matrix: Water

LCS Source: M18ESTKHG_00001

Analyte	Water (ug/L)							
	True	Found	C	%R	Limits		Q	Method
Mercury	2.00	1.99		100	80	120		7470A

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

FORM VIIA - IN

7D-IN
 LAB CONTROL SAMPLE DUPLICATE
 METALS

Lab ID: LCSD 500-448425/14-A

Lab Name: TestAmerica Chicago

Job No.: 500-150867-2

Sample Matrix: Water

LCS Source: M18ESTKHG_00001

Analyte	(SDR) C	Spike Added	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Mercury	1.87	2.00	94	80-120	6	20		7470A

SDR = Spike Duplicate Results

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

FORM VIID - IN

9-IN
DETECTION LIMITS
METALS - ASTM LEACH

Lab Name: TestAmerica Chicago

Job Number: 500-150867-2

SDG Number: _____

Matrix: Solid

Instrument ID: ICPMS2

Method: 6020A

LOQ Date: 01/01/2007 16:06

Prep Method: 3010A

Leach Method: D3987-85

Analyte	Wavelength/ Mass	LOQ (ug/L)	
Barium		500	
Lead		50	

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS - ASTM LEACH

Lab Name: TestAmerica Chicago Job Number: 500-150867-2
SDG Number: _____
Matrix: Solid Instrument ID: ICPMS2
Method: 6020A XMDL Date: 01/28/2008 10:34

Analyte	Wavelength/ Mass	XRL (ug/L)	XMDL (ug/L)
Barium		50	50
Lead		5	2

9-IN
DETECTION LIMITS
METALS - ASTM LEACH

Lab Name: TestAmerica Chicago

Job Number: 500-150867-2

SDG Number: _____

Matrix: Solid

Instrument ID: ICPMS4

Method: 6020A

LOQ Date: 01/01/2007 16:06

Prep Method: 3010A

Leach Method: D3987-85

Analyte	Wavelength/ Mass	LOQ (ug/L)	
Arsenic		50	
Cadmium		5	
Chromium		25	
Selenium		50	
Silver		25	

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS - ASTM LEACH

Lab Name: TestAmerica Chicago

Job Number: 500-150867-2

SDG Number: _____

Matrix: Solid

Instrument ID: ICPMS4

Method: 6020A

XMDL Date: 01/28/2008 10:34

Analyte	Wavelength/ Mass	XRL (ug/L)	XMDL (ug/L)
Arsenic		5	2
Cadmium		1	1
Chromium		5	5
Selenium		10	10
Silver		5	5

9-IN
DETECTION LIMITS
METALS - ASTM LEACH

Lab Name: TestAmerica Chicago Job Number: 500-150867-2
SDG Number: _____
Matrix: Solid Instrument ID: HG6
Method: 7470A LOQ Date: 11/01/2005 11:30
Prep Method: 7470A
Leach Method: D3987-85

Analyte	Wavelength/ Mass	LOQ (ug/L)	
Mercury		0.2	

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS - ASTM LEACH

Lab Name: TestAmerica Chicago Job Number: 500-150867-2
SDG Number: _____
Matrix: Solid Instrument ID: HG6
Method: 7470A XMDL Date: 09/16/2006 08:48

Analyte	Wavelength/ Mass	XRL (ug/L)	XMDL (ug/L)
Mercury		0.2	0.2

11-IN
LINEAR RANGES
METALS

Lab Name: TestAmerica Chicago

Job No: 500-150867-2

SDG No.: _____

Instrument ID: ICPMS2

Date: 07/18/2016 15:12

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	Method
Barium		5000	6020A
Lead		5000	6020A

11-IN
LINEAR RANGES
METALS

Lab Name: TestAmerica Chicago

Job No: 500-150867-2

SDG No.: _____

Instrument ID: HG6

Date: 11/01/2010 11:39

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	Method
Mercury		5.0	7470A

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Chicago

Job No.: 500-150867-2

SDG No.: _____

Prep Method: 3010A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
LCS 500-448398/2-A	09/05/2018 09:17	448398		50	50
LB3 500-448263/1-B	09/05/2018 09:17	448398		50	50
500-150867-5	09/05/2018 09:17	448398		50	50

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Chicago

Job No.: 500-150867-2

SDG No.: _____

Prep Method: 7470A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 500-448425/12-A	09/05/2018 11:15	448425		25	25
LCS 500-448425/13-A	09/05/2018 11:15	448425		25	25
LCSD 500-448425/14-A	09/05/2018 11:15	448425		25	25
LB3 500-448263/1-E	09/05/2018 11:50	448425		25	25
500-150867-5	09/05/2018 11:50	448425		25	25

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Chicago Job No.: 500-150867-2

SDG No.: _____

Instrument ID: ICPMS2 Analysis Method: 6020A

Start Date: 09/05/2018 16:53 End Date: 09/05/2018 18:33

Lab Sample Id	D/F	Type	Time	Analytes																											
				B	P																										
STD0 500-448589/1 IC	1		16:53	X	X																										
STD1 500-448589/2 IC	1		16:54	X	X																										
STD2 500-448589/3 IC	1		16:56	X	X																										
STD3 500-448589/4 IC	1		16:58	X	X																										
ZZZZZZ			17:00																												
ICV 500-448589/6	1		17:01	X	X																										
ICB 500-448589/7	1		17:03	X	X																										
ICVL 500-448589/8	1		17:05	X	X																										
CRI 500-448589/9	1		17:07	X	X																										
ICSA 500-448589/10	1		17:08	X	X																										
ICSAB 500-448589/11	1		17:10	X	X																										
CCV 500-448589/12			17:12																												
CCB 500-448589/13			17:14																												
ZZZZZZ			17:15																												
ZZZZZZ			17:17																												
ZZZZZZ			17:19																												
ZZZZZZ			17:21																												
ZZZZZZ			17:22																												
ZZZZZZ			17:24																												
ZZZZZZ			17:26																												
ZZZZZZ			17:28																												
ZZZZZZ			17:30																												
ZZZZZZ			17:31																												
CCV 500-448589/24			17:33																												
CCB 500-448589/25			17:35																												
ZZZZZZ			17:37																												
ZZZZZZ			17:38																												
ZZZZZZ			17:40																												
ZZZZZZ			17:42																												
ZZZZZZ			17:44																												
ZZZZZZ			17:45																												
ZZZZZZ			17:47																												
ZZZZZZ			17:49																												
ZZZZZZ			17:51																												
ZZZZZZ			17:52																												
CCV 500-448589/36			17:54																												
CCB 500-448589/37			17:56																												
ZZZZZZ			17:58																												
ZZZZZZ			17:59																												
ZZZZZZ			18:01																												
ZZZZZZ			18:03																												
ZZZZZZ			18:05																												

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Chicago Job No.: 500-150867-2

SDG No.: _____

Instrument ID: ICPMS2 Analysis Method: 6020A

Start Date: 09/05/2018 16:53 End Date: 09/05/2018 18:33

Lab Sample Id	D/F	Type	Time	Analytes																											
				B	P																										
ZZZZZZ			18:06																												
ZZZZZZ			18:08																												
ZZZZZZ			18:10																												
ZZZZZZ			18:12																												
ZZZZZZ			18:13																												
CCV 500-448589/48	1		18:15	X	X																										
CCB 500-448589/49	1		18:17	X	X																										
ZZZZZZ			18:19																												
ZZZZZZ			18:20																												
LB3 500-448263/1-B	1	Y	18:22	X	X																										
LCS 500-448398/2-A	1	T	18:24	X	X																										
500-150867-5	1	Y	18:26	X	X																										
ZZZZZZ			18:27																												
CCV 500-448589/56	1		18:29	X	X																										
CCB 500-448589/57	1		18:31	X	X																										
CCVL 500-448589/58	1		18:33	X	X																										

Prep Types: _____
T = Total/NA
Y = ASTM Leach

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Chicago Job No.: 500-150867-2

SDG No.: _____

Instrument ID: ICPMS4 Analysis Method: 6020A

Start Date: 09/05/2018 14:45 End Date: 09/05/2018 20:07

Lab Sample Id	D/F	Type	Time	Analytes																											
				A	A	C	C	S																							
ZZZZZZ			14:45																												
ICIS 500-448593/2			14:48	X	X	X	X	X																							
STD1 500-448593/3 IC	1		14:52	X	X	X	X	X																							
STD2 500-448593/4 IC	1		14:57	X	X	X	X	X																							
STD3 500-448593/5 IC	1		15:01	X	X	X	X	X																							
ZZZZZZ			15:04																												
ICV 500-448593/7	1		15:08	X	X	X	X	X																							
ICB 500-448593/8	1		15:12	X	X	X	X	X																							
ZZZZZZ			15:16																												
ICSA 500-448593/10	1		15:20	X	X	X	X	X																							
ICSAB 500-448593/11	1		15:23	X	X	X	X	X																							
ICVL 500-448593/12	1		15:27	X	X	X	X	X																							
CRI 500-448593/13	1		15:31	X	X	X	X	X																							
CCV 500-448593/14			15:35																												
CCB 500-448593/15			15:39																												
ZZZZZZ			15:42																												
ZZZZZZ			15:46																												
ZZZZZZ			15:50																												
ZZZZZZ			15:54																												
ZZZZZZ			15:57																												
ZZZZZZ			16:01																												
ZZZZZZ			16:05																												
ZZZZZZ			16:09																												
ZZZZZZ			16:13																												
ZZZZZZ			16:16																												
CCB 500-448593/26			16:20																												
CCVL 500-448593/27			16:24																												
CCV 500-448593/28			16:28																												
ZZZZZZ			16:32																												
ZZZZZZ			16:35																												
ZZZZZZ			16:39																												
ZZZZZZ			16:43																												
ZZZZZZ			16:47																												
ZZZZZZ			16:50																												
ZZZZZZ			16:54																												
ZZZZZZ			16:58																												
ZZZZZZ			17:02																												
ZZZZZZ			17:06																												
CCV 500-448593/39			17:09																												
CCB 500-448593/40			17:13																												
ZZZZZZ			17:17																												
ZZZZZZ			17:21																												

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Chicago Job No.: 500-150867-2

SDG No.: _____

Instrument ID: ICPMS4 Analysis Method: 6020A

Start Date: 09/05/2018 14:45 End Date: 09/05/2018 20:07

Lab Sample Id	D/F	Type	Time	Analytes																			
				A	A	C	C	S															
g	s	d	r	e																			
ZZZZZZ			17:25																				
ZZZZZZ			17:28																				
ZZZZZZ			17:32																				
ZZZZZZ			17:36																				
ZZZZZZ			17:40																				
ZZZZZZ			17:44																				
ZZZZZZ			17:47																				
CCV 500-448593/50			17:51																				
CCB 500-448593/51			17:55																				
CCVL 500-448593/52			17:59																				
ZZZZZZ			18:02																				
ZZZZZZ			18:06																				
ZZZZZZ			18:10																				
ZZZZZZ			18:14																				
ZZZZZZ			18:18																				
ZZZZZZ			18:21																				
ZZZZZZ			18:25																				
ZZZZZZ			18:29																				
ZZZZZZ			18:33																				
ZZZZZZ			18:37																				
CCV 500-448593/63			18:40																				
CCB 500-448593/64			18:44																				
ZZZZZZ			18:48																				
ZZZZZZ			18:52																				
ZZZZZZ			18:56																				
ZZZZZZ			18:59																				
ZZZZZZ			19:03																				
ZZZZZZ			19:07																				
ZZZZZZ			19:11																				
ZZZZZZ			19:14																				
CCV 500-448593/73	1		19:18	X	X	X	X	X															
CCB 500-448593/74	1		19:22	X	X	X	X	X															
CCVL 500-448593/75	1		19:26	X	X	X	X	X															
ZZZZZZ			19:30																				
ZZZZZZ			19:33																				
ZZZZZZ			19:37																				
ZZZZZZ			19:41																				
LB3 500-448263/1-B	1	Y	19:45	X	X	X	X	X															
LCS 500-448398/2-A	1	T	19:48	X	X	X	X	X															
500-150867-5	1	Y	19:52	X	X	X	X	X															
ZZZZZZ			19:56																				
CCV 500-448593/84	1		20:00	X	X	X	X	X															

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Chicago Job No.: 500-150867-2

SDG No.: _____

Instrument ID: ICPMS4 Analysis Method: 6020A

Start Date: 09/05/2018 14:45 End Date: 09/05/2018 20:07

Lab Sample Id	D/F	T y p e	Time	Analytes																			
				A g	A s	C d	C r	S e															
CCB 500-448593/85	1		20:04	X	X	X	X	X															
CCVL 500-448593/86	1		20:07	X	X	X	X	X															

Prep Types:
 T = Total/NA
 Y = ASTM Leach

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Chicago Job No.: 500-150867-2

SDG No.: _____

Instrument ID: HG6 Analysis Method: 7470A

Start Date: 09/06/2018 07:45 End Date: 09/06/2018 10:01

Lab Sample Id	D/F	Type	Time	Hg	Analytes																			
ZZZZZZ			07:45																					
ZZZZZZ			07:47																					
ZZZZZZ			07:48																					
ZZZZZZ			07:50																					
ZZZZZZ			07:52																					
ZZZZZZ			07:54																					
ICV 500-448602/7	1		07:58	X																				
ICB 500-448602/8	1		08:00	X																				
CRA 500-448602/9	1		08:02	X																				
MB 500-448425/12-A	1	T	08:04	X																				
LCS 500-448425/13-A	1	T	08:05	X																				
LCSD 500-448425/14-A	1	T	08:07	X																				
ZZZZZZ			08:09																					
ZZZZZZ			08:11																					
ZZZZZZ			08:13																					
ZZZZZZ			08:14																					
ZZZZZZ			08:16																					
ZZZZZZ			08:18																					
CCV 500-448602/19	1		08:20	X																				
CCB 500-448602/20	1		08:22	X																				
ZZZZZZ			08:24																					
ZZZZZZ			08:25																					
ZZZZZZ			08:28																					
ZZZZZZ			08:29																					
ZZZZZZ			08:31																					
ZZZZZZ			08:33																					
ZZZZZZ			08:34																					
ZZZZZZ			08:36																					
ZZZZZZ			08:37																					
ZZZZZZ			08:39																					
CCV 500-448602/31	1		08:40	X																				
CCB 500-448602/32	1		08:42	X																				
LB3 500-448263/1-E	1	Y	08:44	X																				
500-150867-5	1	Y	08:46	X																				
ZZZZZZ			08:47																					
ZZZZZZ			08:49																					
ZZZZZZ			08:50																					
ZZZZZZ			08:52																					
ZZZZZZ			08:53																					
ZZZZZZ			08:55																					
ZZZZZZ			08:57																					
ZZZZZZ			08:58																					

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Chicago Job No.: 500-150867-2

SDG No.: _____

Instrument ID: HG6 Analysis Method: 7470A

Start Date: 09/06/2018 07:45 End Date: 09/06/2018 10:01

Lab Sample Id	D/F	Type	Time	Analytes																											
				Hg																											
CCV 500-448602/43	1		09:00	X																											
CCB 500-448602/44	1		09:01	X																											
ZZZZZZ			09:03																												
ZZZZZZ			09:05																												
ZZZZZZ			09:07																												
ZZZZZZ			09:09																												
ZZZZZZ			09:10																												
ZZZZZZ			09:12																												
ZZZZZZ			09:13																												
ZZZZZZ			09:15																												
ZZZZZZ			09:16																												
ZZZZZZ			09:18																												
CCV 500-448602/55			09:20																												
CCB 500-448602/56			09:21																												
ZZZZZZ			09:23																												
ZZZZZZ			09:25																												
ZZZZZZ			09:26																												
ZZZZZZ			09:28																												
ZZZZZZ			09:30																												
ZZZZZZ			09:31																												
ZZZZZZ			09:33																												
ZZZZZZ			09:35																												
ZZZZZZ			09:36																												
ZZZZZZ			09:38																												
CCV 500-448602/67			09:39																												
CCB 500-448602/68			09:41																												
ZZZZZZ			09:43																												
ZZZZZZ			09:45																												
ZZZZZZ			09:46																												
ZZZZZZ			09:48																												
CCV 500-448602/73			09:59																												
CCB 500-448602/74			10:01																												

Prep Types:
 T = Total/NA
 Y = ASTM Leach

15-IN
ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: TestAmerica Chicago Job No.: 500-150867-2

SDG No.: _____

ICP-MS Instrument ID: ICPMS2 Start Date: 09/05/2018 End Date: 09/05/2018

Lab Sample ID	Time	Internal Standards %RI For:									
		Element Li-6	Q	Element Sc	Q	Element Y-89	Q	Element Rh-103	Q	Element In	Q
STD0 500-448589/1 IC	16:53	100		100		100		100		100	
STD1 500-448589/2 IC	16:54	99		100		96		97		99	
STD2 500-448589/3 IC	16:56	88		96		90		90		94	
STD3 500-448589/4 IC	16:58	63		88		82		82		90	
ICV 500-448589/6	17:01	78		89		85		85		90	
ICB 500-448589/7	17:03	90		94		89		91		94	
ICVL 500-448589/8	17:05	94		88		91		94		96	
CRI 500-448589/9	17:07	97		96		91		94		97	
ICSA 500-448589/10	17:08	40		66		67		69		78	
ICSAB 500-448589/11	17:10	40		66		68		68		77	
CCV 500-448589/48	18:15	80		79		78		79		85	
CCB 500-448589/49	18:17	100		84		81		85		89	
LB3 500-448263/1-B	18:22	100		82		79		81		84	
LCS 500-448398/2-A	18:24	90		77		75		76		82	
500-150867-5	18:26	98		83		79		79		83	
CCV 500-448589/56	18:29	82		80		78		79		85	
CCB 500-448589/57	18:31	101		85		81		86		88	
CCVL 500-448589/58	18:33	104		91		86		91		93	

15-IN
ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: TestAmerica Chicago Job No.: 500-150867-2

SDG No.: _____

ICP-MS Instrument ID: ICPMS2 Start Date: 09/05/2018 End Date: 09/05/2018

Lab Sample ID	Time	Internal Standards %RI For:									
		Element Tb	Q	Element Bi	Q	Element	Q	Element	Q	Element	Q
STD0 500-448589/1 IC	16:53	100		100							
STD1 500-448589/2 IC	16:54	101		100							
STD2 500-448589/3 IC	16:56	98		95							
STD3 500-448589/4 IC	16:58	91		85							
ICV 500-448589/6	17:01	94		92							
ICB 500-448589/7	17:03	97		101							
ICVL 500-448589/8	17:05	99		102							
CRI 500-448589/9	17:07	99		102							
ICSA 500-448589/10	17:08	76		76							
ICSAB 500-448589/11	17:10	78		74							
CCV 500-448589/48	18:15	91		89							
CCB 500-448589/49	18:17	92		97							
LB3 500-448263/1-B	18:22	91		88							
LCS 500-448398/2-A	18:24	90		84							
500-150867-5	18:26	91		85							
CCV 500-448589/56	18:29	89		87							
CCB 500-448589/57	18:31	91		95							
CCVL 500-448589/58	18:33	95		99							

15-IN
ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: TestAmerica Chicago Job No.: 500-150867-2

SDG No.: _____

ICP-MS Instrument ID: ICPMS4 Start Date: 09/05/2018 End Date: 09/05/2018

Lab Sample ID	Time	Internal Standards %RI For:									
		Element Li-6	Q	Element Sc	Q	Element Y-89	Q	Element Rh-103	Q	Element Tb	Q
STD1 500-448593/3 IC	14:52	99		99		102		99		100	
STD2 500-448593/4 IC	14:57	92		99		100		97		99	
STD3 500-448593/5 IC	15:01	89		98		101		96		98	
ICV 500-448593/7	15:08	92		98		100		97		100	
ICB 500-448593/8	15:12	96		96		100		98		100	
ICSA 500-448593/10	15:20	91		103		100		90		96	
ICSAB 500-448593/11	15:23	85		100		99		86		93	
ICVL 500-448593/12	15:27	91		99		101		98		98	
CRI 500-448593/13	15:31	91		100		101		99		100	
CCV 500-448593/73	19:18	92		92		96		90		95	
CCB 500-448593/74	19:22	86		83		86		85		85	
CCVL 500-448593/75	19:26	97		95		97		94		96	
LB3 500-448263/1-B	19:45	97		91		92		91		94	
LCS 500-448398/2-A	19:48	97		93		92		91		94	
500-150867-5	19:52	100		93		92		92		95	
CCV 500-448593/84	20:00	93		95		95		92		95	
CCB 500-448593/85	20:04	95		94		95		95		95	
CCVL 500-448593/86	20:07	99		96		97		95		97	

15-IN
ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: TestAmerica Chicago Job No.: 500-150867-2

SDG No.: _____

ICP-MS Instrument ID: ICPMS4 Start Date: 09/05/2018 End Date: 09/05/2018

Lab Sample ID	Time	Internal Standards %RI For:									
		Element Bi	Q	Element	Q	Element	Q	Element	Q	Element	Q
STD1 500-448593/3 IC	14:52	100									
STD2 500-448593/4 IC	14:57	96									
STD3 500-448593/5 IC	15:01	90									
ICV 500-448593/7	15:08	95									
ICB 500-448593/8	15:12	98									
ICSA 500-448593/10	15:20	89									
ICSAB 500-448593/11	15:23	88									
ICVL 500-448593/12	15:27	97									
CRI 500-448593/13	15:31	99									
CCV 500-448593/73	19:18	92									
CCB 500-448593/74	19:22	88									
CCVL 500-448593/75	19:26	97									
LB3 500-448263/1-B	19:45	93									
LCS 500-448398/2-A	19:48	90									
500-150867-5	19:52	94									
CCV 500-448593/84	20:00	90									
CCB 500-448593/85	20:04	97									
CCVL 500-448593/86	20:07	97									

METALS BATCH WORKSHEET

Lab Name: TestAmerica Chicago Job No.: 500-150867-2

SDG No.: _____

Batch Number: 448263 Batch Start Date: 09/04/18 12:10 Batch Analyst: Christensen, Justin L

Batch Method: D3987-85 Batch End Date: 09/05/18 06:10

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount				
LB3 500-448263/1		D3987-85, 3010A, 6020A		1 g	1 mL				
500-150867-A-5	Leachate Solids	D3987-85, 3010A, 6020A	Y	1 g	1 mL				

Batch Notes	
Batch Comment	T498

Basis	Basis Description
Y	ASTM Leach

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: TestAmerica Chicago Job No.: 500-150867-2

SDG No.: _____

Batch Number: 448398 Batch Start Date: 09/05/18 09:17 Batch Analyst: Heiligstedt, Stephanie A

Batch Method: 3010A Batch End Date: 09/05/18 09:47

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	M18HSPKMS 00003			
LCS 500-448398/2		3010A, 6020A		50 mL	50 mL	0.5 mL			
LB3 500-448263/1-A		3010A, 6020A		50 mL	50 mL				
500-150867-A-5-A	Leachate Solids	3010A, 6020A	Y	50 mL	50 mL				

Batch Notes	
Batch Comment	filter/plunger 80405755, T-498, T-501, T-502
Temperature - Corrected - End	97 Degrees C
Temperature - Corrected - Start	97 Degrees C
Digestion End Time	08/05/2018 09:47
Digestion Start Time	09/05/2018 09:17
Digestion Unit ID	1565
Hydrochloric Acid ID	198300
Nitric Acid ID	200458
Pipette/Syringe/Dispenser ID	2850
Thermometer ID	2102558
Digestion Tube/Cup ID	1804377
Temperature - Uncorrected - End	98 Degrees C
Temperature - Uncorrected - Start	98 Degrees C

Basis	Basis Description
Y	ASTM Leach

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: TestAmerica Chicago Job No.: 500-150867-2

SDG No.: _____

Batch Number: 448263 Batch Start Date: 09/04/18 12:10 Batch Analyst: Christensen, Justin L

Batch Method: D3987-85 Batch End Date: 09/05/18 06:10

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount				
LB3 500-448263/1		D3987-85, 7470A, 7470A		1 g	1 mL				
500-150867-A-5	Leachate Solids	D3987-85, 7470A, 7470A	Y	1 g	1 mL				

Batch Notes	
Batch Comment	T498

Basis	Basis Description
Y	ASTM Leach

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: TestAmerica Chicago Job No.: 500-150867-2

SDG No.: _____

Batch Number: 448425 Batch Start Date: 09/05/18 11:15 Batch Analyst: Gomez, Martin J

Batch Method: 7470A Batch End Date: 09/05/18 13:55

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	M18ESTKHG 00001			
MB 500-448425/12		7470A, 7470A		25 mL	25 mL				
LCS 500-448425/13		7470A, 7470A		25 mL	25 mL	0.00005 mL			
LCSD 500-448425/14		7470A, 7470A		25 mL	25 mL	0.00005 mL			
LB3 500-448263/1-A		7470A, 7470A		25 mL	25 mL				
500-150867-A-5-A	Leachate Solids	7470A, 7470A	Y	25 mL	25 mL				

Batch Notes	
Batch Comment	STOCKID: M18ESTKHG_00001 (QC),M18BSTKHG00001 (Curve)
Temperature - Corrected - End	97.4 Degrees C
Temperature - Corrected - Start	97.4 Degrees C
Digestion End Time	09/05/18 13:15
Digestion Start Time	09/05/18 11:15
Digestion Unit ID	C1566
Sulfuric Acid ID	189631
Nitric Acid ID	200458
Hydroxylamine ID	199595
Potassium Persulfate ID	A0388919
Potassium Permanganate ID	176389
pH Indicator ID	220416A
Pipette/Syringe/Dispenser ID	2240,1631,1630
Thermometer ID	M62232
Digestion Tube/Cup ID	1804377
Temperature - Uncorrected - End	97.6 Degrees C
Temperature - Uncorrected - Start	97.6 Degrees C

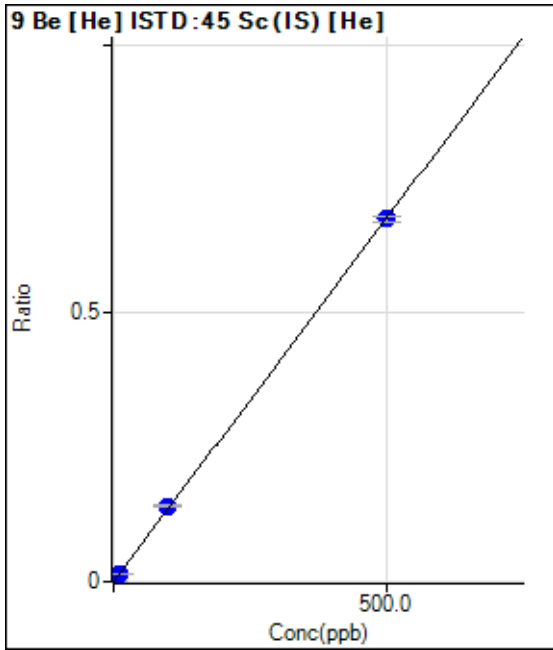
Basis	Basis Description
Y	ASTM Leach

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.

Calibration for 001CALB.d

Batch Folder: C:\Agilent\ICPMH\1\DATA\MS4090518He-2A.b\
Analysis File: MS4090518He-2A.batch.bin
DA Date-Time: 9/5/2018 3:21:27 PM
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	002CALB.d	ICIS	9/5/2018 2:48:54 PM
2	003CALS.d	Std1	9/5/2018 2:52:39 PM
3	004CALS.d	Std2	9/5/2018 2:57:24 PM
4	005CALS.d	Std3	9/5/2018 3:01:11 PM



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.000	0.000	6.67	0.0000	P	173.
2	<input type="checkbox"/>	10.000	10.157	2780.33	0.0138	P	4.4
3	<input type="checkbox"/>	100.000	103.710	28570.52	0.1403	P	1.6
4	<input type="checkbox"/>	500.000	499.255	135537.97	0.6753	P	1.6

$y = 0.0014 * x + 3.2426E-005$

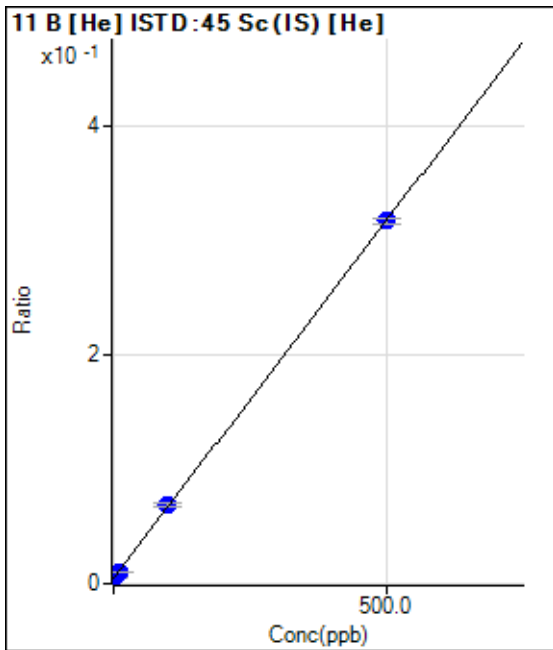
R = 1.0000

DL = 0.1246

BEC = 0.02397

Weight: <None>

Min Conc: 0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.000	0.000	963.39	0.0047	P	9.1
2	<input type="checkbox"/>	10.000	8.941	2080.20	0.0103	P	7.1
3	<input type="checkbox"/>	100.000	103.051	14079.56	0.0692	P	5.9
4	<input type="checkbox"/>	500.000	499.411	63665.63	0.3172	P	1.5

$y = 6.2564E-004 * x + 0.0047$

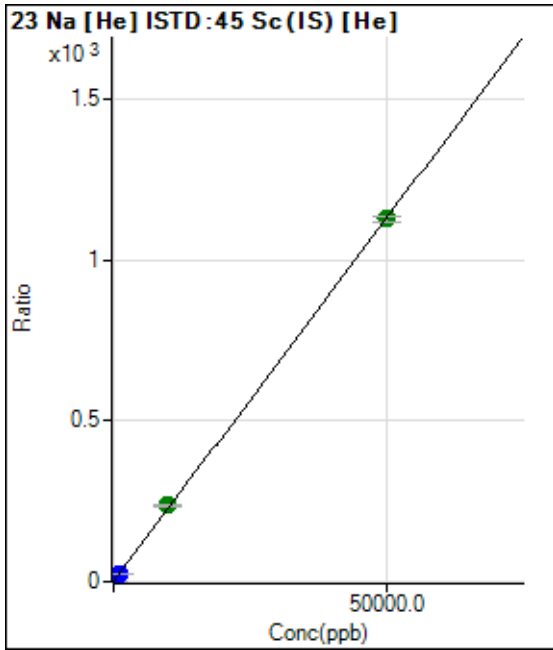
R = 1.0000

DL = 2.063

BEC = 7.523

Weight: <None>

Min Conc: 0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.000	0.000	165655.45	0.8091	P	3.1
2	<input type="checkbox"/>	1000.000	1119.640	5269828.26	26.0951	P	1.2
3	<input type="checkbox"/>	10000.00	10439.94	48162675.95	236.5858	A	1.3
4	<input type="checkbox"/>	50000.00	49909.61	226390463.2	1,127.972	A	1.5

$y = 0.0226 * x + 0.8091$

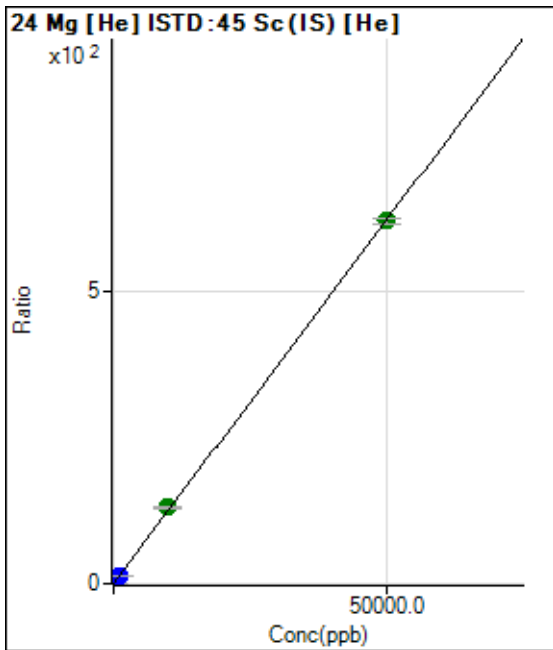
R = 1.0000

DL = 3.353

BEC = 35.83

Weight: <None>

Min Conc: 0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.000	0.000	9956.69	0.0486	P	10.6
2	<input type="checkbox"/>	1000.000	1135.179	2852743.39	14.1256	P	0.6
3	<input type="checkbox"/>	10000.00	10480.59	26467512.11	130.0149	A	1.2
4	<input type="checkbox"/>	50000.00	49901.17	124205254.8	618.8557	A	1.5

$y = 0.0124 * x + 0.0486$

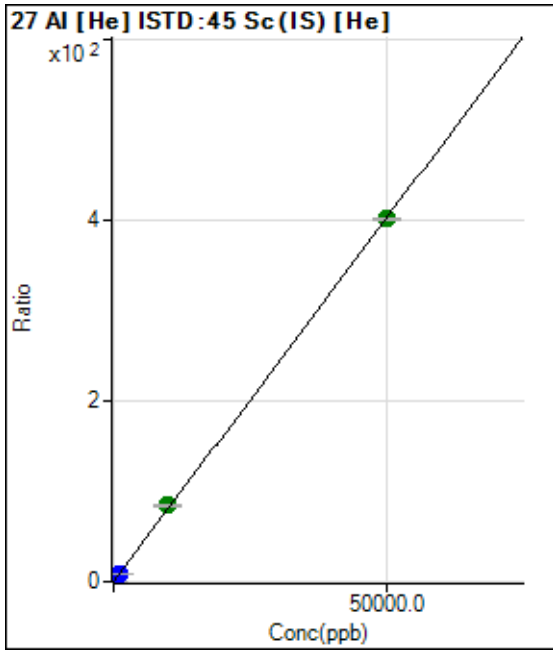
R = 1.0000

DL = 1.243

BEC = 3.922

Weight: <None>

Min Conc: 0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.000	0.000	4754.18	0.0232	P	5.7
2	<input type="checkbox"/>	1000.000	1120.756	1827194.29	9.0474	P	0.5
3	<input type="checkbox"/>	10000.00	10466.60	17160861.83	84.2988	A	1.8
4	<input type="checkbox"/>	50000.00	49904.26	80657503.80	401.8451	A	0.4

$y = 0.0081 * x + 0.0232$

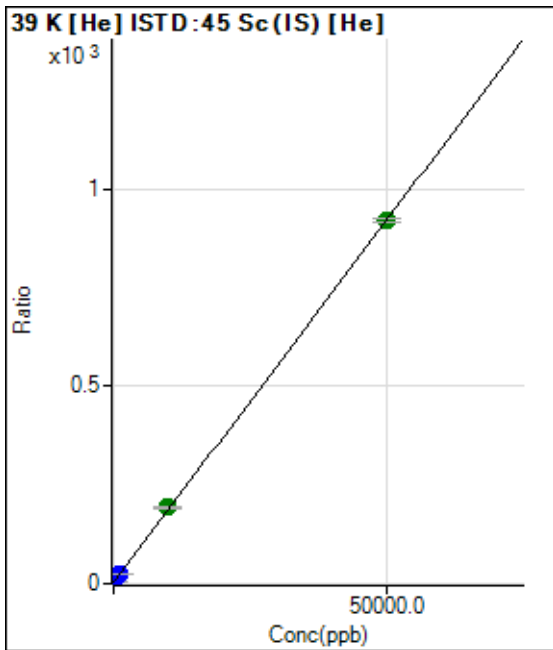
R = 1.0000

DL = 0.4908

BEC = 2.884

Weight: <None>

Min Conc: 0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.000	0.000	544808.52	2.6610	P	0.8
2	<input type="checkbox"/>	1000.000	1106.536	4642010.56	22.9855	P	0.7
3	<input type="checkbox"/>	10000.00	10390.77	39394366.08	193.5162	A	1.5
4	<input type="checkbox"/>	50000.00	49919.71	184565217.2	919.5739	A	1.1

$y = 0.0184 * x + 2.6610$

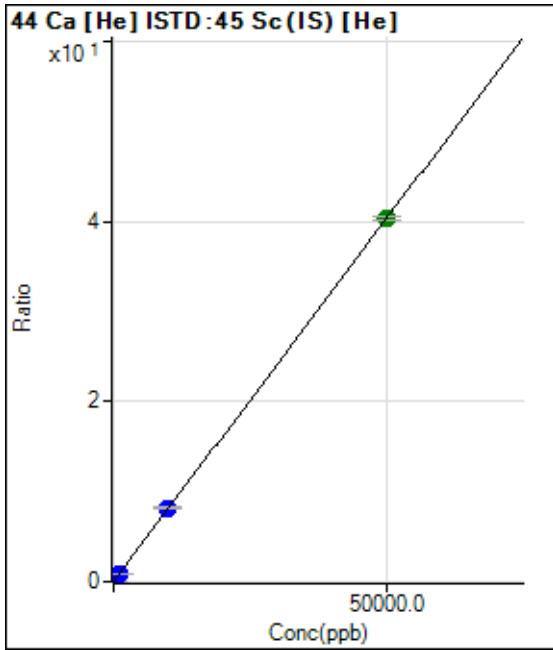
R = 1.0000

DL = 3.373

BEC = 144.9

Weight: <None>

Min Conc: 0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.000	0.000	4542.99	0.0222	P	6.7
2	<input type="checkbox"/>	1000.000	1088.424	181454.30	0.8985	P	0.8
3	<input type="checkbox"/>	10000.00	10147.39	1667585.03	8.1918	P	1.4
4	<input type="checkbox"/>	50000.00	49968.75	8078863.39	40.2515	A	1.0

$y = 8.0509E-004 * x + 0.0222$

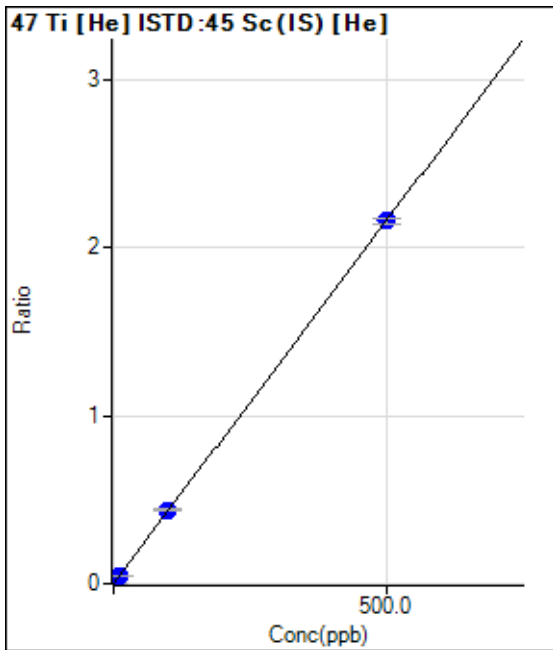
R = 1.0000

DL = 5.565

BEC = 27.56

Weight: <None>

Min Conc: 0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.000	0.000	63.33	0.0003	P	24.8
2	<input type="checkbox"/>	10.000	10.653	9369.56	0.0464	P	2.3
3	<input type="checkbox"/>	100.000	101.245	89191.68	0.4382	P	3.0
4	<input type="checkbox"/>	500.000	499.738	433860.87	2.1618	P	1.9

$y = 0.0043 * x + 3.0965E-004$

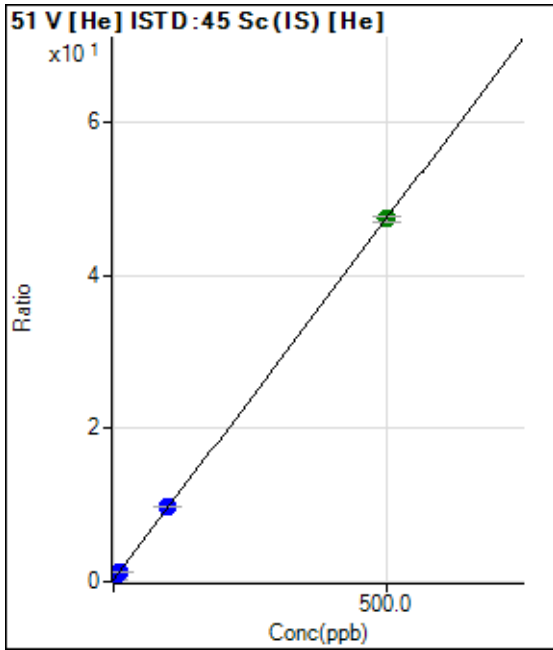
R = 1.0000

DL = 0.05329

BEC = 0.07159

Weight: <None>

Min Conc: 0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.000	0.000	55848.56	0.2728	P	1.3
2	<input type="checkbox"/>	10.000	11.008	264729.81	1.3109	P	1.3
3	<input type="checkbox"/>	100.000	101.460	2003424.03	9.8411	P	1.0
4	<input type="checkbox"/>	500.000	499.688	9512446.73	47.3965	A	1.7

$y = 0.0943 * x + 0.2728$

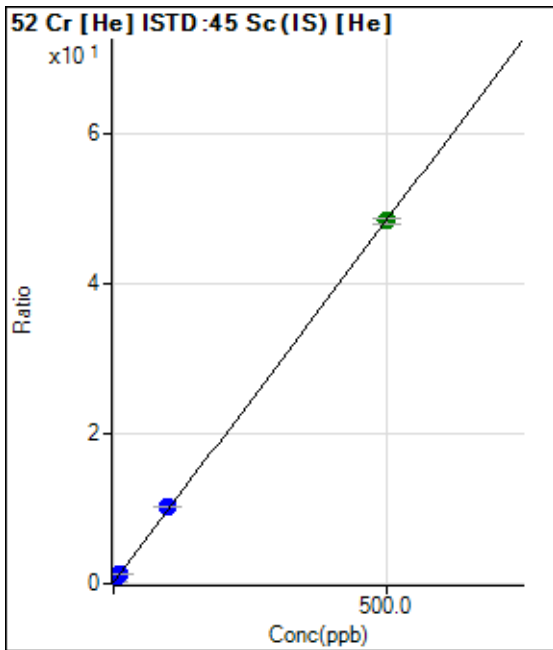
R = 1.0000

DL = 0.1131

BEC = 2.892

Weight: <None>

Min Conc: 0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.000	0.000	32461.83	0.1586	P	3.7
2	<input type="checkbox"/>	10.000	11.011	246655.73	1.2213	P	0.2
3	<input type="checkbox"/>	100.000	103.736	2070595.02	10.1709	P	0.9
4	<input type="checkbox"/>	500.000	499.233	9702785.06	48.3430	A	1.3

$y = 0.0965 * x + 0.1586$

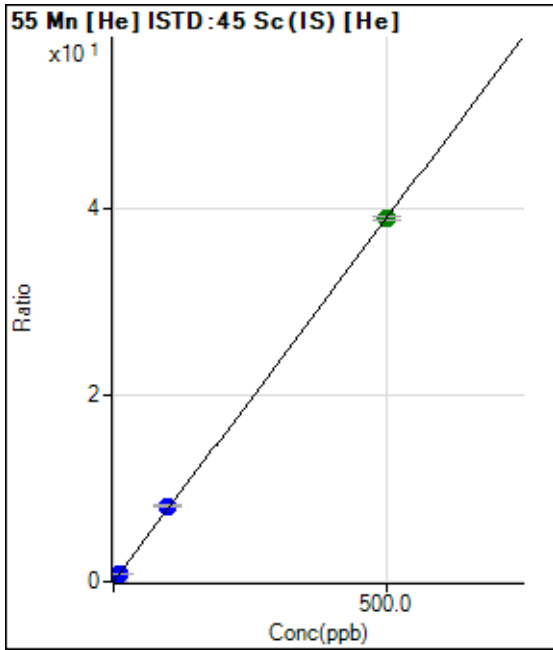
R = 1.0000

DL = 0.1841

BEC = 1.643

Weight: <None>

Min Conc: 0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.000	0.000	660.04	0.0032	P	5.0
2	<input type="checkbox"/>	10.000	11.276	178305.62	0.8830	P	2.3
3	<input type="checkbox"/>	100.000	104.064	1653369.82	8.1221	P	1.8
4	<input type="checkbox"/>	500.000	499.162	7817031.13	38.9468	A	0.9

$y = 0.0780 * x + 0.0032$

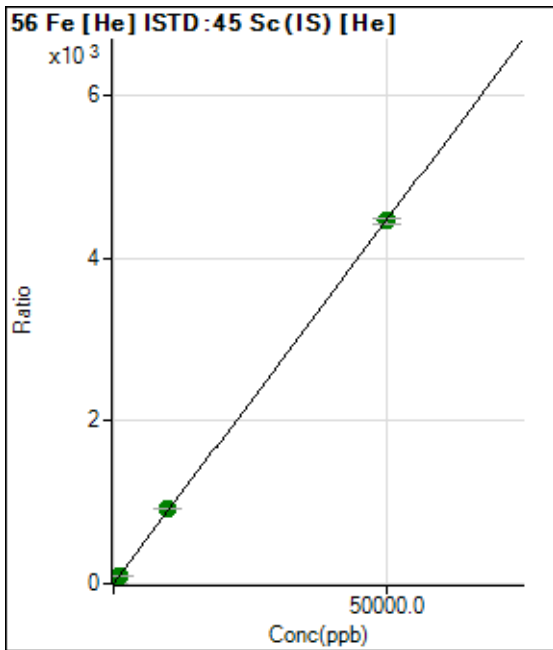
R = 1.0000

DL = 0.006168

BEC = 0.04131

Weight: <None>

Min Conc: 0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.000	0.000	72926.38	0.3562	P	4.4
2	<input type="checkbox"/>	1000.000	1106.689	20005459.70	99.0550	A	1.1
3	<input type="checkbox"/>	10000.00	10320.61	187458343.8	920.7879	A	1.0
4	<input type="checkbox"/>	50000.00	49933.74	893841453.3	4,453.637	A	1.7

$y = 0.0892 * x + 0.3562$

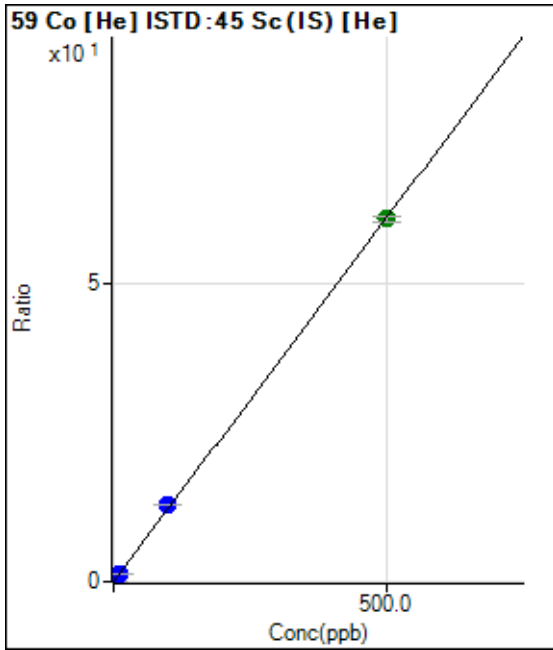
R = 1.0000

DL = 0.5247

BEC = 3.994

Weight: <None>

Min Conc: 0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.000	0.000	216.68	0.0011	P	57.4
2	<input type="checkbox"/>	10.000	11.489	284111.84	1.4067	P	0.2
3	<input type="checkbox"/>	100.000	106.098	2643137.88	12.9823	P	0.7
4	<input type="checkbox"/>	500.000	498.751	12247411.90	61.0238	A	1.7

$y = 0.1224 * x + 0.0011$

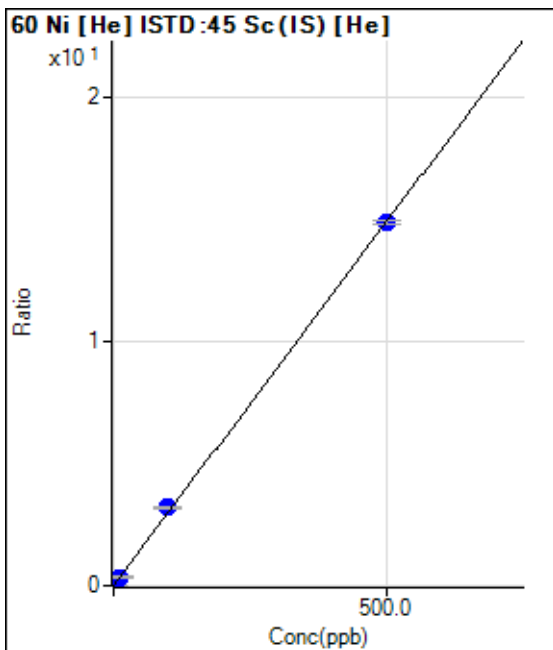
R = 0.9999

DL = 0.01487

BEC = 0.008641

Weight: <None>

Min Conc: 0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.000	0.000	160.01	0.0008	P	12.4
2	<input type="checkbox"/>	10.000	11.766	70965.49	0.3514	P	3.2
3	<input type="checkbox"/>	100.000	107.101	649883.82	3.1925	P	1.5
4	<input type="checkbox"/>	500.000	498.545	2982070.48	14.8578	P	1.2

$y = 0.0298 * x + 7.8151E-004$

R = 0.9999

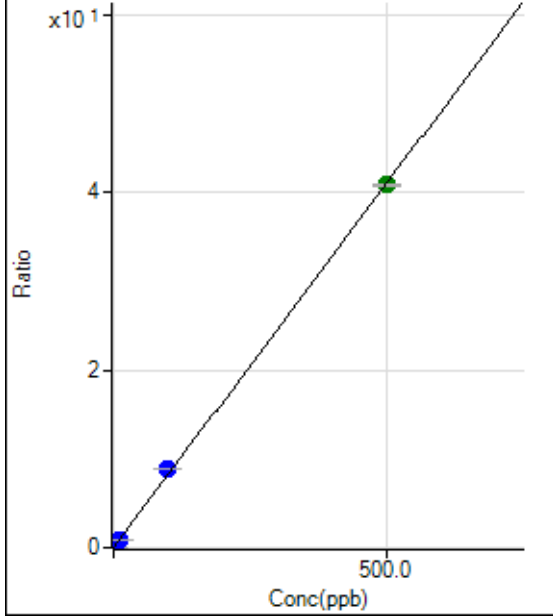
DL = 0.009795

BEC = 0.02622

Weight: <None>

Min Conc: 0

63 Cu [He] ISTD:103 Rh (IS) [He]



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.000	0.000	2304.63	0.0124	P	4.3
2	<input type="checkbox"/>	10.000	11.480	175863.44	0.9525	P	1.2
3	<input type="checkbox"/>	100.000	108.605	1605617.19	8.9059	P	0.8
4	<input type="checkbox"/>	500.000	498.249	7246154.99	40.8131	A	0.5

$y = 0.0819 * x + 0.0124$

R = 0.9998

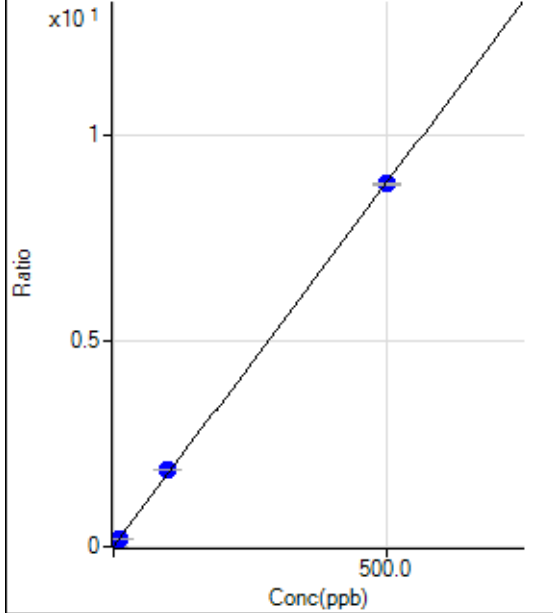
DL = 0.01974

BEC = 0.1516

Weight: <None>

Min Conc: 0

66 Zn [He] ISTD:103 Rh (IS) [He]



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.000	0.000	816.72	0.0044	P	14.0
2	<input type="checkbox"/>	10.000	11.188	37342.06	0.2022	P	1.1
3	<input type="checkbox"/>	100.000	105.956	338601.36	1.8780	P	1.0
4	<input type="checkbox"/>	500.000	498.785	1566780.50	8.8245	P	0.5

$y = 0.0177 * x + 0.0044$

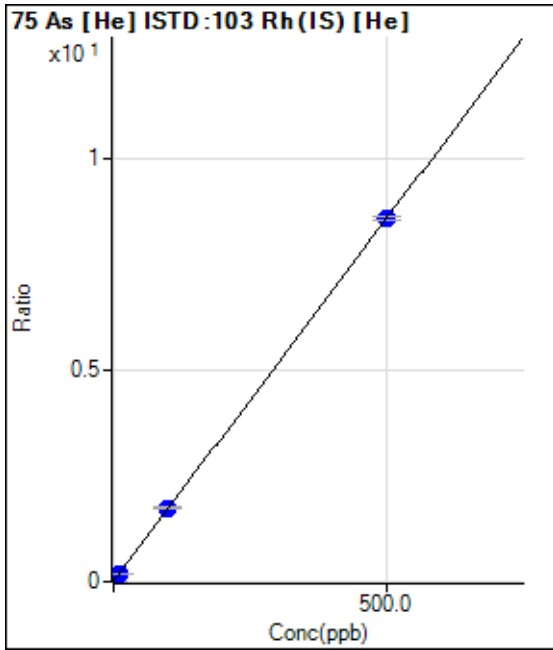
R = 0.9999

DL = 0.1043

BEC = 0.2485

Weight: <None>

Min Conc: 0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.000	0.000	1646.75	0.0089	P	1.3
2	<input type="checkbox"/>	10.000	10.393	34562.50	0.1872	P	0.7
3	<input type="checkbox"/>	100.000	101.462	315443.23	1.7497	P	1.0
4	<input type="checkbox"/>	500.000	499.700	1523681.58	8.5824	P	1.0

$y = 0.0172 * x + 0.0089$

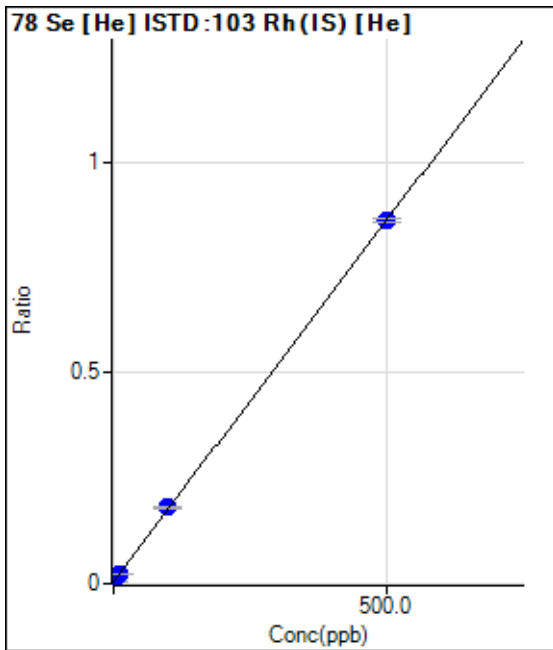
R = 1.0000

DL = 0.01963

BEC = 0.5168

Weight: <None>

Min Conc: 0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.000	0.000	943.03	0.0051	P	5.9
2	<input type="checkbox"/>	10.000	10.646	4306.90	0.0233	P	0.7
3	<input type="checkbox"/>	100.000	102.583	32613.75	0.1809	P	1.0
4	<input type="checkbox"/>	500.000	499.470	152875.29	0.8611	P	1.2

$y = 0.0017 * x + 0.0051$

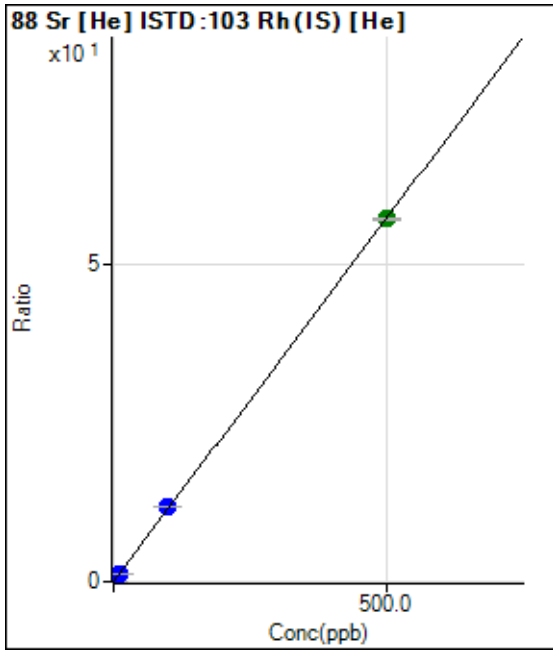
R = 1.0000

DL = 0.5289

BEC = 2.964

Weight: <None>

Min Conc: 0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.000	0.000	950.06	0.0051	P	14.5
2	<input type="checkbox"/>	10.000	10.665	226766.31	1.2282	P	1.7
3	<input type="checkbox"/>	100.000	103.638	2143858.87	11.8912	P	0.9
4	<input type="checkbox"/>	500.000	499.259	10166900.47	57.2646	A	0.4

$y = 0.1147 * x + 0.0051$

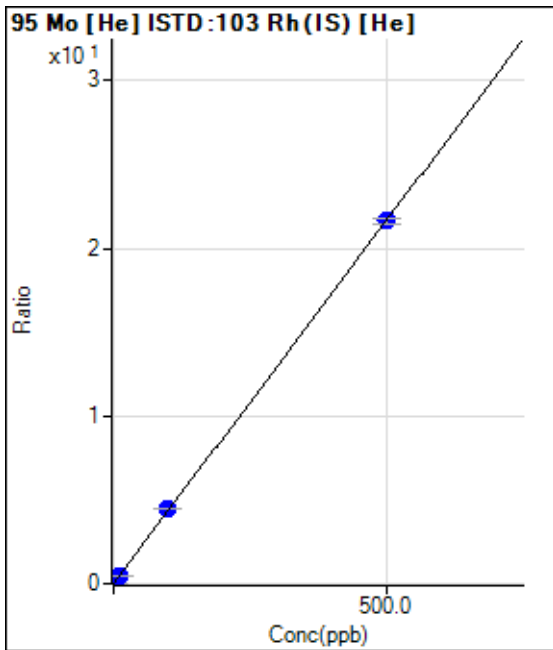
R = 1.0000

DL = 0.01948

BEC = 0.04466

Weight: <None>

Min Conc: 0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.000	0.000	546.70	0.0029	P	8.3
2	<input type="checkbox"/>	10.000	10.289	82797.26	0.4485	P	2.0
3	<input type="checkbox"/>	100.000	102.358	799553.01	4.4348	P	0.6
4	<input type="checkbox"/>	500.000	499.523	3840134.32	21.6313	P	1.7

$y = 0.0433 * x + 0.0029$

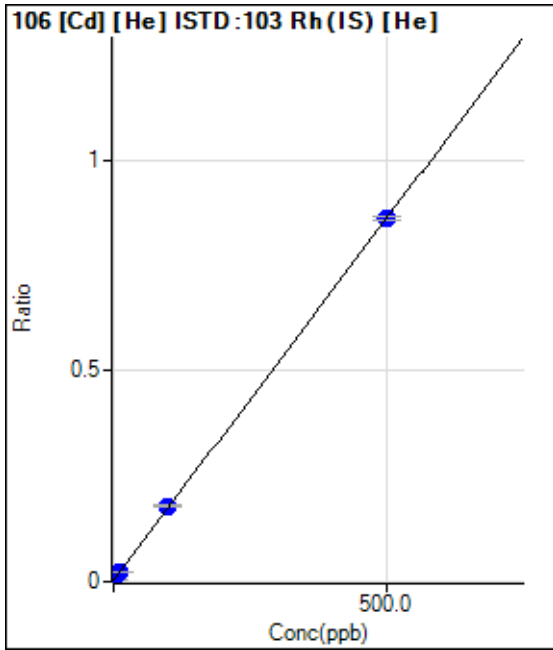
R = 1.0000

DL = 0.01691

BEC = 0.06803

Weight: <None>

Min Conc: 0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.000	0.000	546.70	0.0029	P	18.1
2	<input type="checkbox"/>	10.000	11.187	4087.34	0.0221	P	4.9
3	<input type="checkbox"/>	100.000	103.150	32439.58	0.1800	P	3.4
4	<input type="checkbox"/>	500.000	499.346	152675.75	0.8599	P	0.9

$y = 0.0017 * x + 0.0029$

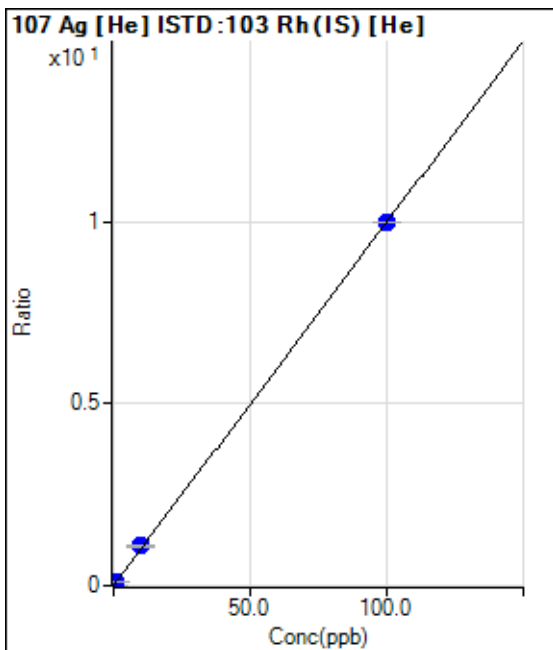
R = 1.0000

DL = 0.932

BEC = 1.713

Weight: <None>

Min Conc: 0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.000	0.000	43.33	0.0002	P	80.1
2	<input type="checkbox"/>	1.000	1.126	20793.77	0.1126	P	2.1
3	<input type="checkbox"/>	10.000	10.860	195418.82	1.0840	P	1.3
4	<input type="checkbox"/>	100.000	99.913	1770258.20	9.9707	P	0.1

$y = 0.0998 * x + 2.3267E-004$

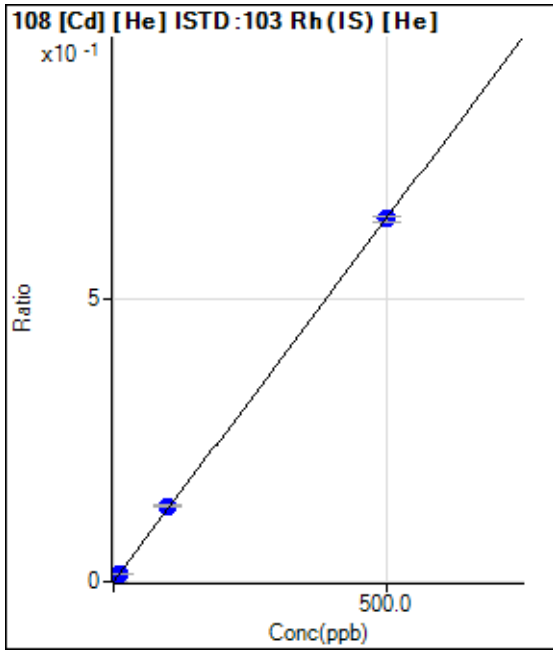
R = 1.0000

DL = 0.005605

BEC = 0.002332

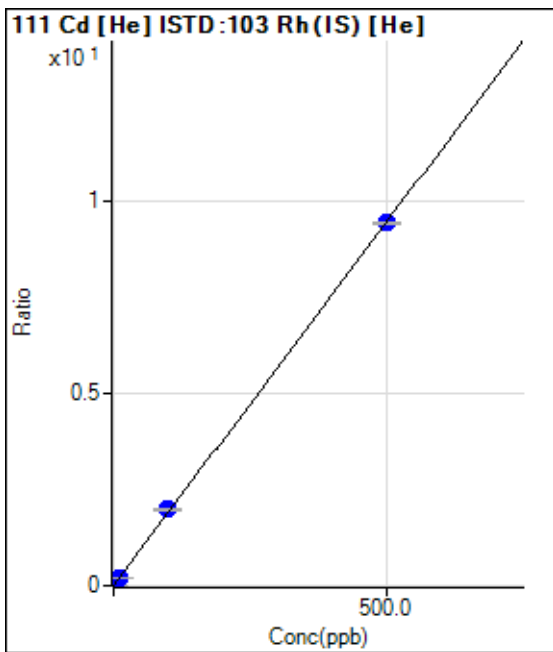
Weight: <None>

Min Conc: 0



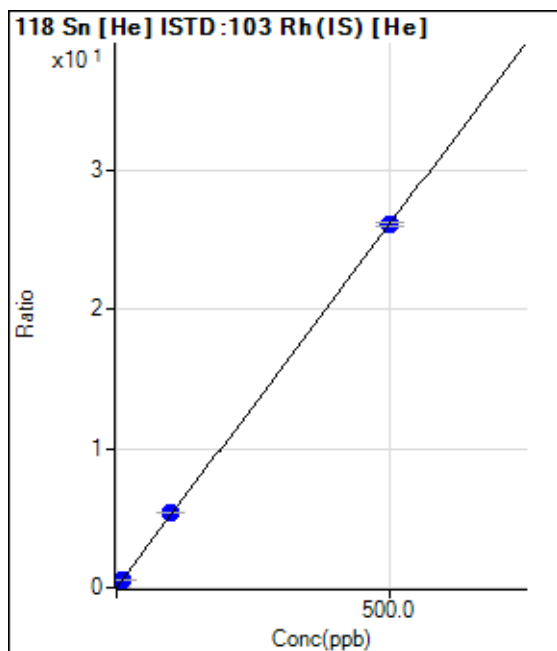
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.000	0.000	16.67	0.0001	P	92.1
2	<input type="checkbox"/>	10.000	11.008	2626.98	0.0142	P	3.2
3	<input type="checkbox"/>	100.000	104.011	24101.89	0.1337	P	1.0
4	<input type="checkbox"/>	500.000	499.178	113834.51	0.6412	P	1.6

$y = 0.0013 * x + 9.0428E-005$
 R = 1.0000
 DL = 0.1945
 BEC = 0.07041
 Weight: <None>
 Min Conc: 0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.000	0.000	416.46	0.0022	P	24.1
2	<input type="checkbox"/>	10.000	10.944	38626.62	0.2092	P	3.3
3	<input type="checkbox"/>	100.000	104.754	357597.70	1.9835	P	1.7
4	<input type="checkbox"/>	500.000	499.030	1676205.45	9.4408	P	0.5

$y = 0.0189 * x + 0.0022$
 R = 1.0000
 DL = 0.08543
 BEC = 0.1183
 Weight: <None>
 Min Conc: 0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.000	0.000	853.39	0.0046	P	17.8
2	<input type="checkbox"/>	10.000	10.460	101780.99	0.5513	P	2.2
3	<input type="checkbox"/>	100.000	103.793	978925.92	5.4297	P	1.0
4	<input type="checkbox"/>	500.000	499.232	4633381.81	26.0986	P	1.1

$y = 0.0523 * x + 0.0046$

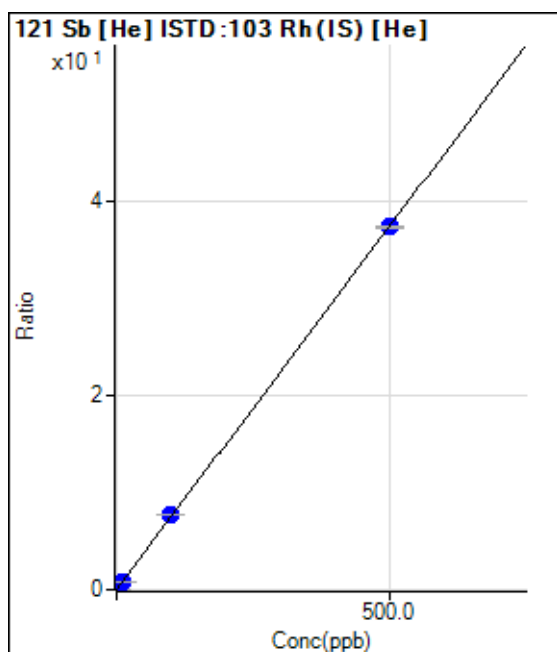
R = 1.0000

DL = 0.04704

BEC = 0.08793

Weight: <None>

Min Conc: 0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.000	0.000	256.68	0.0014	P	26.4
2	<input type="checkbox"/>	10.000	10.562	146411.89	0.7930	P	0.5
3	<input type="checkbox"/>	100.000	103.439	1397816.54	7.7534	P	1.0
4	<input type="checkbox"/>	500.000	499.301	6643699.49	37.4204	P	0.6

$y = 0.0749 * x + 0.0014$

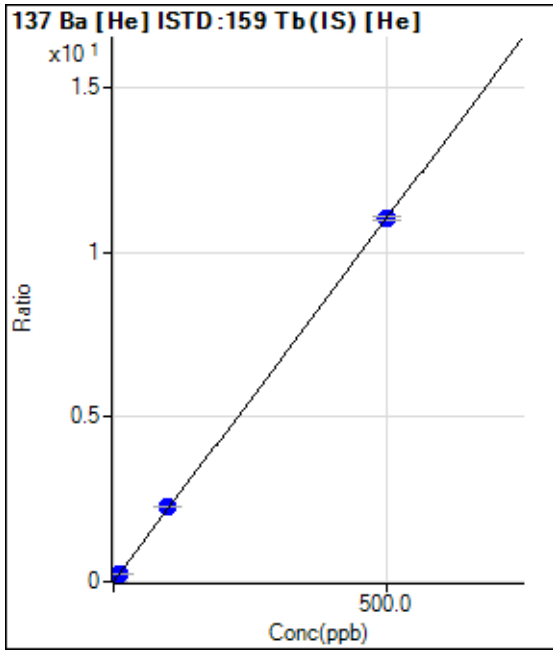
R = 1.0000

DL = 0.01463

BEC = 0.01848

Weight: <None>

Min Conc: 0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.000	0.000	73.33	0.0004	P	40.0
2	<input type="checkbox"/>	10.000	10.652	48731.64	0.2353	P	1.0
3	<input type="checkbox"/>	100.000	102.744	464850.88	2.2662	P	0.9
4	<input type="checkbox"/>	500.000	499.438	2216593.40	11.0146	P	1.2

$y = 0.0221 * x + 3.5327E-004$

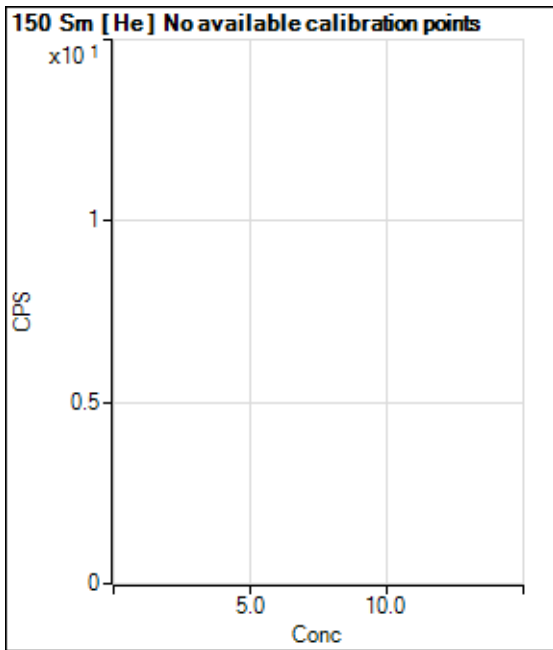
R = 1.0000

DL = 0.0192

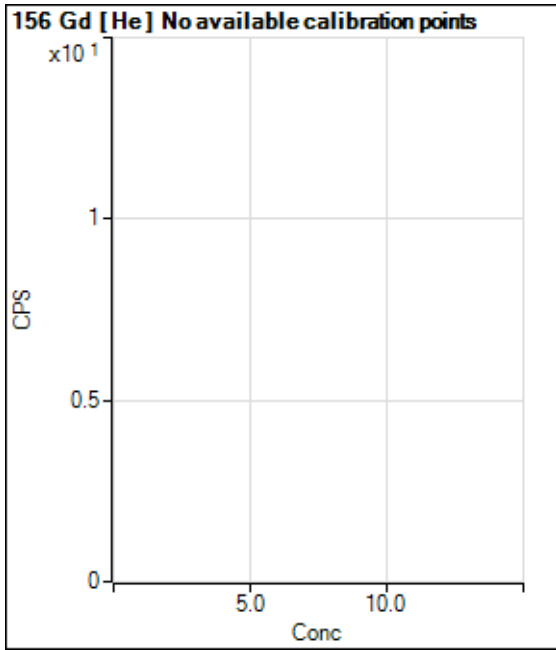
BEC = 0.01602

Weight: <None>

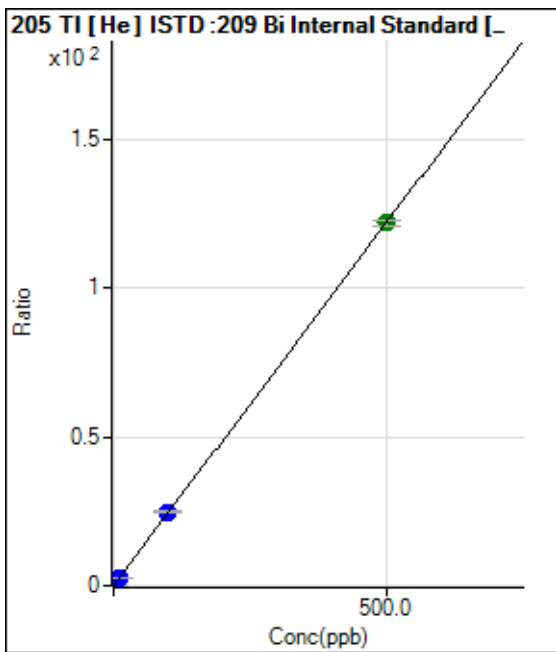
Min Conc: 0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>						
2	<input type="checkbox"/>						
3	<input type="checkbox"/>						
4	<input type="checkbox"/>						



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>						
2	<input type="checkbox"/>						
3	<input type="checkbox"/>						
4	<input type="checkbox"/>						



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.000	0.000	210.01	0.0019	P	21.6
2	<input type="checkbox"/>	10.000	10.412	286890.34	2.5454	P	2.2
3	<input type="checkbox"/>	100.000	101.764	2700260.06	24.8618	P	1.5
4	<input type="checkbox"/>	500.000	499.639	12426583.98	122.0592	A	1.8

$y = 0.2443 * x + 0.0019$

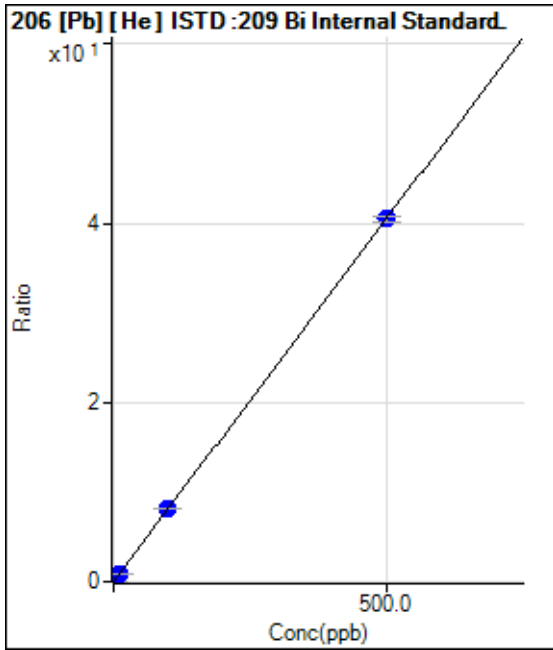
R = 1.0000

DL = 0.00494

BEC = 0.007635

Weight: <None>

Min Conc: 0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.000	0.000	126.67	0.0011	P	12.5
2	<input type="checkbox"/>	10.000	10.427	95351.45	0.8460	P	2.0
3	<input type="checkbox"/>	100.000	100.721	886482.17	8.1618	P	1.1
4	<input type="checkbox"/>	500.000	499.847	4123153.17	40.5004	P	1.5

$y = 0.0810 * x + 0.0011$

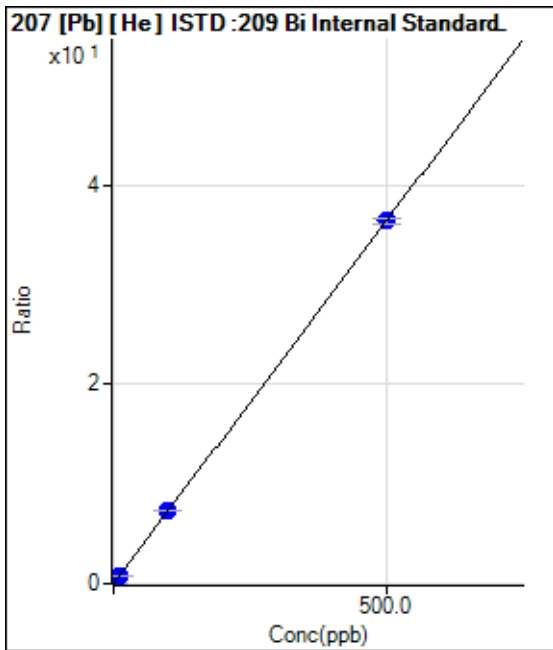
R = 1.0000

DL = 0.005201

BEC = 0.01388

Weight: <None>

Min Conc: 0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.000	0.000	90.00	0.0008	P	51.7
2	<input type="checkbox"/>	10.000	10.528	86441.61	0.7668	P	1.2
3	<input type="checkbox"/>	100.000	100.377	793319.15	7.3043	P	1.5
4	<input type="checkbox"/>	500.000	499.914	3703070.05	36.3750	P	1.6

$y = 0.0728 * x + 8.0082E-004$

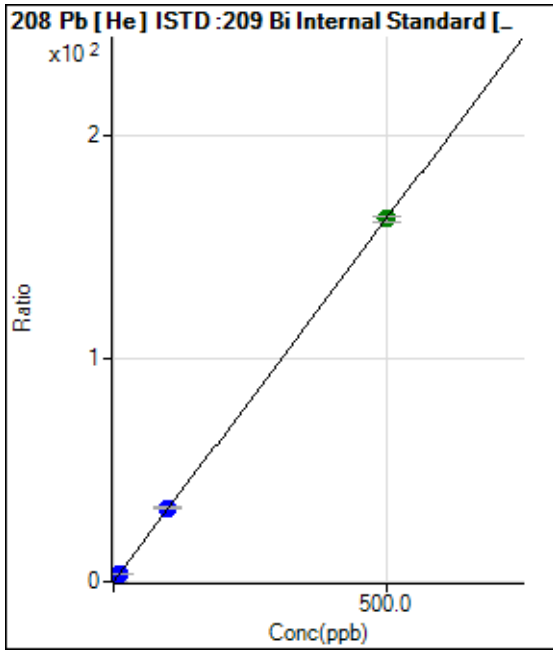
R = 1.0000

DL = 0.01708

BEC = 0.01101

Weight: <None>

Min Conc: 0



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.000	0.000	450.02	0.0040	P	13.2
2	<input type="checkbox"/>	10.000	10.620	390424.70	3.4638	P	1.7
3	<input type="checkbox"/>	100.000	101.359	3586735.46	33.0247	P	1.5
4	<input type="checkbox"/>	500.000	499.716	16573662.04	162.8006	A	1.5

$y = 0.3258 * x + 0.0040$

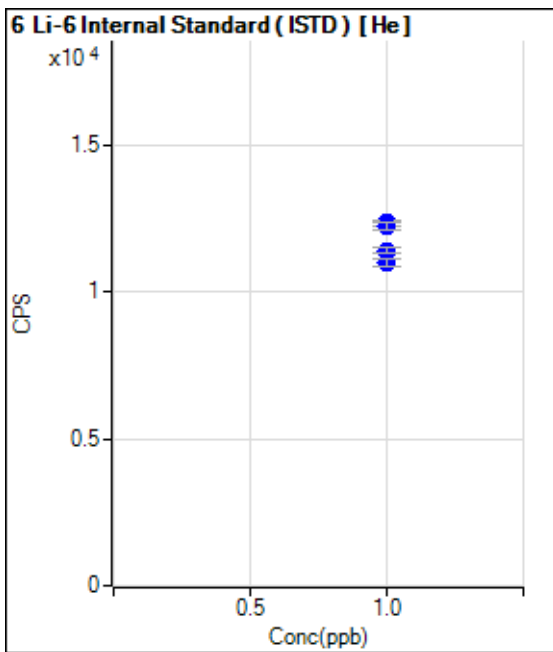
R = 1.0000

DL = 0.004864

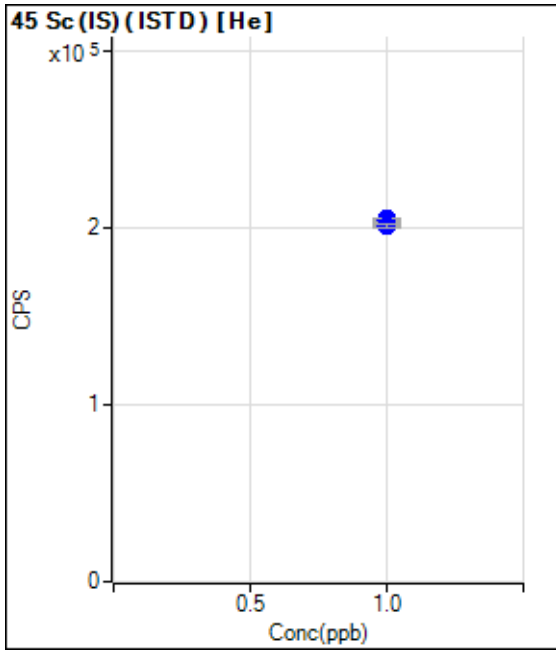
BEC = 0.01226

Weight: <None>

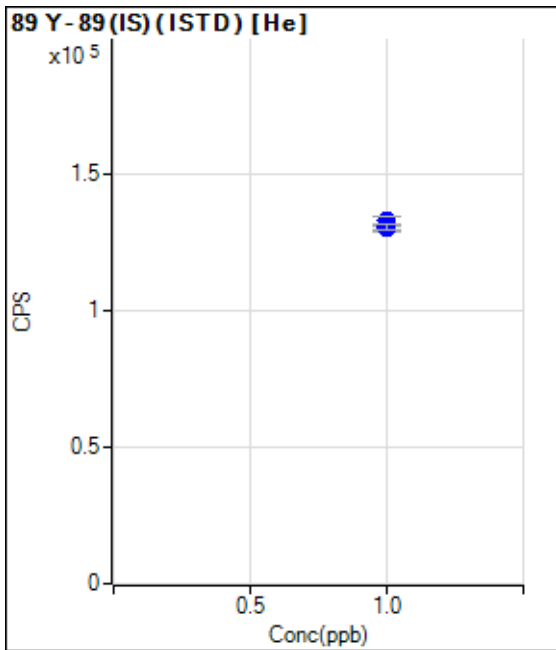
Min Conc: 0



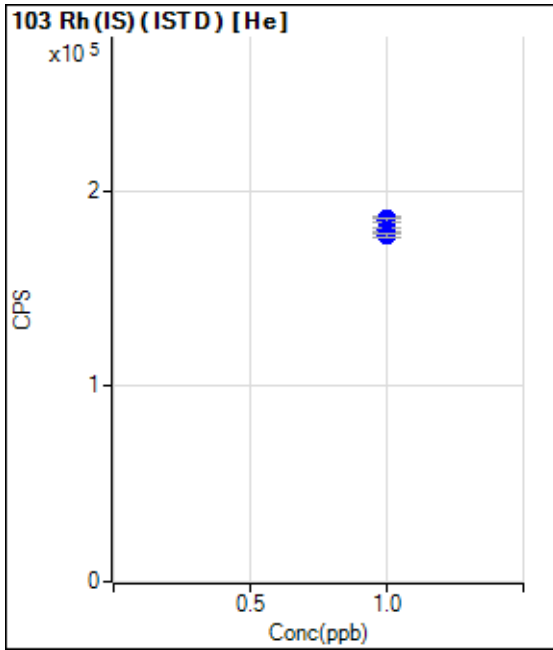
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	1.000		12344.78		P	1.8
2	<input type="checkbox"/>	1.000		12231.34		P	2.1
3	<input type="checkbox"/>	1.000		11397.42		P	1.7
4	<input type="checkbox"/>	1.000		11013.79		P	2.3



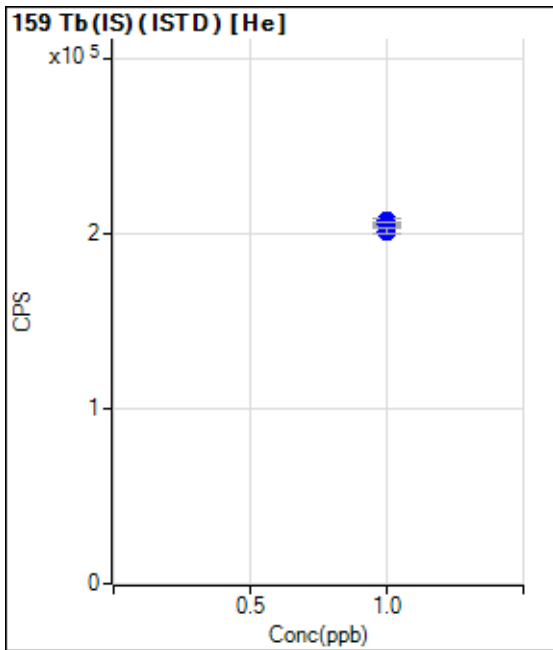
	Rj c t	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	1.000		204747.87		P	0.7
2	<input type="checkbox"/>	1.000		201962.93		P	1.0
3	<input type="checkbox"/>	1.000		203600.19		P	1.6
4	<input type="checkbox"/>	1.000		200724.64		P	1.1



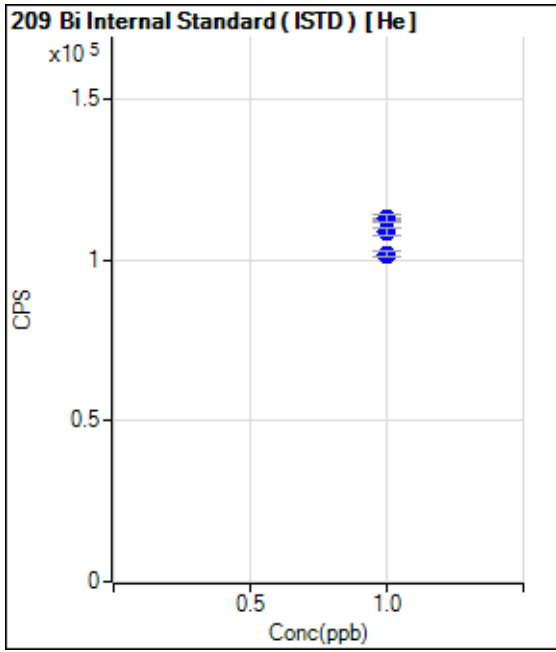
	Rj c t	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	1.000		130116.60		P	1.6
2	<input type="checkbox"/>	1.000		132968.14		P	2.6
3	<input type="checkbox"/>	1.000		130244.40		P	1.3
4	<input type="checkbox"/>	1.000		130812.30		P	1.6



	Rj t	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	1.000		185729.71		P	1.3
2	<input type="checkbox"/>	1.000		184643.15		P	1.0
3	<input type="checkbox"/>	1.000		180294.88		P	0.9
4	<input type="checkbox"/>	1.000		177547.79		P	1.1



	Rj t	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	1.000		206436.42		P	2.2
2	<input type="checkbox"/>	1.000		207136.29		P	1.3
3	<input type="checkbox"/>	1.000		205136.40		P	1.6
4	<input type="checkbox"/>	1.000		201260.39		P	1.3



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	1.000		112709.71		P	0.8
2	<input type="checkbox"/>	1.000		112742.87		P	2.2
3	<input type="checkbox"/>	1.000		108629.45		P	2.0
4	<input type="checkbox"/>	1.000		101823.21		P	1.9

Batch Summary Report

Batch Folder: C:\Agilent\ICPMH\1\DATA\MS4090518He-2A.b\
 Analysis File: MS4090518He-2A.batch.bin
 Tune Step: #1 He

	Rjct	Acq. Date-Time	Data File	Sample Name	Type	Level	Dilution
1		9/5/2018 2:45:08 PM	001CALB.d	blk I.S. /tune	CalBlk	1	1.0000
2		9/5/2018 2:48:54 PM	002CALB.d	ICIS	CalBlk	1	1.0000
3		9/5/2018 2:52:39 PM	003CALS.d	Std1	CalStd	2	1.0000
4		9/5/2018 2:57:24 PM	004CALS.d	Std2	CalStd	3	1.0000
5		9/5/2018 3:01:11 PM	005CALS.d	Std3	CalStd	4	1.0000
6		9/5/2018 3:04:58 PM	006 QCS.d	S1	QCS		1.0000
7		9/5/2018 3:08:43 PM	007 ICV.d	ICV	ICV		1.0000
8		9/5/2018 3:12:30 PM	008 ICB.d	ICB	ICB		1.0000
9		9/5/2018 3:16:17 PM	009LICV.d	/ICVL	Sample		1.0000
10		9/5/2018 3:20:03 PM	010ICSA.d	icsa	ICSA		1.0000
11		9/5/2018 3:23:50 PM	011ICSB.d	icsab	ICSB		1.0000
12		9/5/2018 3:27:38 PM	012LICV.d	ICVL	LLICV		1.0000
13		9/5/2018 3:31:27 PM	013SMPL.d	CRI	Sample		1.0000
14		9/5/2018 3:35:14 PM	014 CCV.d	CCV	CCV		1.0000
15		9/5/2018 3:39:01 PM	015 CCB.d	CCB	CCB		1.0000
16		9/5/2018 3:42:49 PM	016 PB.d	mb 500-448078/1-a	PB		1.0000
17		9/5/2018 3:46:35 PM	017 LCS.d	lcs 500-448078/2-a	LCS		1.0000
18		9/5/2018 3:50:23 PM	018SMPL.d	500-150763-a-1-b	Sample		1.0000
19		9/5/2018 3:54:10 PM	019SMPL.d	500-150763-a-2-b	Sample		1.0000
20		9/5/2018 3:57:57 PM	020SMPL.d	500-150763-a-1-b @10	Sample		1.0000
21		9/5/2018 4:01:43 PM	021SMPL.d	500-150763-a-2-b @10	Sample		1.0000
22		9/5/2018 4:05:32 PM	022 PB.d	mb 500-448089/1-a	PB		1.0000
23		9/5/2018 4:09:20 PM	023 LCS.d	lcs 500-448089/2-a	LCS		1.0000
24		9/5/2018 4:13:06 PM	024SMPL.d	500-150851-a-1-a	Sample		1.0000
25		9/5/2018 4:16:52 PM	025 CCV.d	/CCV	Sample		1.0000
26		9/5/2018 4:20:39 PM	026 CCB.d	CCB	CCB		1.0000
27		9/5/2018 4:24:26 PM	027LCCV.d	CCVL	LLCCV		1.0000

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	Rjct	Acq. Date-Time	Data File	Sample Name	Type	Level	Dilution
28		9/5/2018 4:28:13 PM	028 CCV.d	CCV	CCV		1.0000
29		9/5/2018 4:32:00 PM	029 PB.d	mb 500-448014/1-a	PB		1.0000
30		9/5/2018 4:35:47 PM	030 LCS.d	lcs 500-448014/2-a	LCS		1.0000
31		9/5/2018 4:39:34 PM	031SMPL.d	500-150788-a-89-a	Sample		1.0000
32		9/5/2018 4:43:22 PM	032SMPL.d	500-150788-a-89-b du	Sample		1.0000
33		9/5/2018 4:47:10 PM	033SMPL.d	500-150788-a-89-c ms	Sample		1.0000
34		9/5/2018 4:50:58 PM	034SMPL.d	500-150788-a-89-d msd	Sample		1.0000
35		9/5/2018 4:54:44 PM	035SMPL.d	500-150788-a-89-a SD@5	Sample		1.0000
36		9/5/2018 4:58:32 PM	036SMPL.d	500-150788-a-90-a	Sample		1.0000
37		9/5/2018 5:02:19 PM	037SMPL.d	500-150788-a-91-a	Sample		1.0000
38		9/5/2018 5:06:05 PM	038SMPL.d	500-150788-a-92-a	Sample		1.0000
39		9/5/2018 5:09:53 PM	039 CCV.d	CCV	CCV		1.0000
40		9/5/2018 5:13:40 PM	040 CCB.d	CCB	CCB		1.0000
41		9/5/2018 5:17:30 PM	041SMPL.d	500-150788-a-93-a	Sample		1.0000
42		9/5/2018 5:21:17 PM	042SMPL.d	500-150788-a-94-a	Sample		1.0000
43		9/5/2018 5:25:04 PM	043 PB.d	mb 500-448446/1-a	PB		1.0000
44		9/5/2018 5:28:50 PM	044 LCS.d	lcs 500-448446/2-a	LCS		1.0000
45		9/5/2018 5:32:37 PM	045SMPL.d	500-150605-d-1-a	Sample		1.0000
46		9/5/2018 5:36:24 PM	046SMPL.d	500-150933-c-1-a	Sample		1.0000
47		9/5/2018 5:40:11 PM	047SMPL.d	500-150933-c-1-b du	Sample		1.0000
48		9/5/2018 5:44:00 PM	048SMPL.d	500-150933-c-1-c ms	Sample		1.0000
49		9/5/2018 5:47:48 PM	049SMPL.d	500-150933-c-1-a SD@5	Sample		1.0000
50		9/5/2018 5:51:35 PM	050 CCV.d	CCV	CCV		1.0000
51		9/5/2018 5:55:23 PM	051 CCB.d	CCB	CCB		1.0000
52		9/5/2018 5:59:10 PM	052LCCV.d	CCVL	LLCCV		1.0000
53		9/5/2018 6:02:56 PM	053 PB.d	mb 500-448383/1-a	PB		1.0000
54		9/5/2018 6:06:43 PM	054 LCS.d	lcs 500-448383/2-a	LCS		1.0000
55		9/5/2018 6:10:30 PM	055SMPL.d	500-150785-d-1-a	Sample		1.0000
56		9/5/2018 6:14:19 PM	056SMPL.d	500-150785-d-2-a	Sample		1.0000
57		9/5/2018 6:18:06 PM	057SMPL.d	500-150785-d-3-a	Sample		1.0000
58		9/5/2018 6:21:55 PM	058SMPL.d	500-150785-d-4-a	Sample		1.0000
59		9/5/2018 6:25:42 PM	059SMPL.d	500-150785-d-4-b du	Sample		1.0000

Batch Summary Report

	Rjct	Acq. Date-Time	Data File	Sample Name	Type	Level	Dilution
60		9/5/2018 6:29:28 PM	060SMPL.d	500-150785-d-4-c ms	Sample		1.0000
61		9/5/2018 6:33:17 PM	061SMPL.d	500-150785-d-4-d msd	Sample		1.0000
62		9/5/2018 6:37:03 PM	062SMPL.d	500-150785-d-4-a SD@5	Sample		1.0000
63		9/5/2018 6:40:54 PM	063 CCV.d	CCV	CCV		1.0000
64		9/5/2018 6:44:40 PM	064 CCB.d	CCB	CCB		1.0000
65		9/5/2018 6:48:27 PM	065SMPL.d	500-150785-d-5-a	Sample		1.0000
66		9/5/2018 6:52:15 PM	066SMPL.d	500-150785-d-6-a	Sample		1.0000
67		9/5/2018 6:56:02 PM	067SMPL.d	500-150785-d-7-a	Sample		1.0000
68		9/5/2018 6:59:50 PM	068SMPL.d	500-150785-d-8-a	Sample		1.0000
69		9/5/2018 7:03:37 PM	069SMPL.d	500-150785-d-9-a	Sample		1.0000
70		9/5/2018 7:07:23 PM	070SMPL.d	mb 500-448216/1-c	Sample		1.0000
71		9/5/2018 7:11:11 PM	071SMPL.d	500-150785-f-8-b	Sample		1.0000
72		9/5/2018 7:14:57 PM	072SMPL.d	500-150785-e-9-b	Sample		1.0000
73		9/5/2018 7:18:43 PM	073 CCV.d	CCV	CCV		1.0000
74		9/5/2018 7:22:31 PM	074 CCB.d	CCB	CCB		1.0000
75		9/5/2018 7:26:16 PM	075LCCV.d	CCVL	LLCCV		1.0000
76		9/5/2018 7:30:03 PM	076SMPL.d	500-150653-i-1-a	Sample		1.0000
77		9/5/2018 7:33:49 PM	077SMPL.d	500-150657-i-1-a	Sample		1.0000
78		9/5/2018 7:37:37 PM	078SMPL.d	500-150658-e-1-c	Sample		1.0000
79		9/5/2018 7:41:24 PM	079SMPL.d	500-150689-f-1-a	Sample		1.0000
80		9/5/2018 7:45:12 PM	080 PB.d	lb3 500-448263/1-b	PB		1.0000
81		9/5/2018 7:48:56 PM	081 LCS.d	lcs 500-448398/2-a	LCS		1.0000
82		9/5/2018 7:52:44 PM	082SMPL.d	500-150867-a-5-b	Sample		1.0000
83		9/5/2018 7:56:30 PM	083SMPL.d	500-150867-a-5-b @5	Sample		1.0000
84		9/5/2018 8:00:19 PM	084 CCV.d	CCV	CCV		1.0000
85		9/5/2018 8:04:07 PM	085 CCB.d	CCB	CCB		1.0000
86		9/5/2018 8:07:52 PM	086LCCV.d	CCVL	LLCCV		1.0000

Batch Summary Report

Analyte Table

	Sample Name	9 Be [He]			11 B [He]			23 Na [He]		
		Conc. [ppb]	CPS	Conc. RSD	Conc. [ppb]	CPS	Conc. RSD	Conc. [ppb]	CPS	Conc. RSD
1	blk I.S. /tune	0.000	6.67	14977.148	0.892	1080.09	234.864	11.948	220885.82	18.217
2	ICIS	0.000	6.67	N/A	0.000	963.39	N/A	0.000	165655.45	N/A
3	Std1	10.157	2780.33	4.420	8.941	2080.20	13.056	1119.640	5269828.26	1.239
4	Std2	103.710	28570.52	1.560	103.051	14079.56	6.305	10439.944	48162675.95	1.266
5	Std3	499.255	135537.97	1.575	499.411	63665.63	1.572	49909.618	2.26390E+08	1.533
6	S1	485.577	134000.96	2.467	485.255	62892.80	2.045	48794.012	2.24966E+08	1.722
7	ICV	198.021	53896.41	1.391	204.500	26691.06	1.406	20039.035	91218881.97	0.449
8	ICB	0.064	23.33	89.593	0.742	1013.41	307.940	<0.000	144312.62	N/A
9	/ICVL	1.142	273.35	15.499	61.494	7231.76	21.335	264.408	1135191.03	21.857
10	icsa	0.023	13.33	235.383	<0.000	900.06	N/A	98191.925	4.66356E+08	0.955
11	icsab	18.931	5260.99	2.364	50.272	7421.84	6.133	99096.071	4.59319E+08	1.523
12	ICVL	0.987	276.68	19.264	48.625	7128.35	7.777	236.060	1245240.11	1.003
13	CRI	1.748	490.03	12.254	96.393	13288.91	2.701	423.190	2119092.42	0.918
14	CCV	253.927	69132.66	3.068	248.204	32203.49	4.132	25598.246	1.16532E+08	0.721
15	CCB	0.012	10.00	507.812	<0.000	843.39	N/A	<0.000	156163.81	N/A
16	mb 500-44807...	<0.000	3.33	N/A	<0.000	903.39	N/A	229.092	1218900.09	1.151
17	lcs 500-448078...	48.554	13692.52	4.520	1024.035	134549.32	1.711	10520.059	49695664.26	2.260
18	500-150763-a-...	0.022	13.33	362.675	282.019	38329.25	0.517	361407.002	1.72694E+09	1.022
19	500-150763-a-...	<0.000	3.33	N/A	286.336	38843.58	1.855	375944.059	1.79361E+09	0.966
20	500-150763-a-...	0.024	13.33	229.505	33.892	5337.68	7.084	40227.265	1.87261E+08	0.634
21	500-150763-a-...	<0.000	0.00	0.000	35.379	5477.72	3.657	40887.098	1.88588E+08	1.594
22	mb 500-44808...	<0.000	0.00	0.000	28.252	4607.46	3.878	74.122	511055.11	4.019
23	lcs 500-448089...	50.492	14376.32	2.224	1027.007	136178.54	1.097	10128.151	48291760.95	0.632
24	500-150851-a-...	0.048	20.00	3.381	163.381	21967.75	1.412	93768.789	4.35137E+08	1.891
25	/CCV	291.960	69761.37	19.521	295.540	33552.93	18.498	29424.744	1.17448E+08	20.123
26	CCB	0.000	6.67	11540.208	2.829	1290.10	43.541	8.611	200042.38	12.302

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Analyte Table

	Sample Name	9 Be [He]			11 B [He]			23 Na [He]		
		Conc. [ppb]	CPS	Conc. RSD	Conc. [ppb]	CPS	Conc. RSD	Conc. [ppb]	CPS	Conc. RSD
27	CCVL	1.017	280.01	21.562	53.037	7548.58	0.619	217.907	1141513.11	0.757
28	CCV	259.704	69082.12	1.621	261.100	33048.62	1.939	26222.338	1.16617E+08	0.490
29	mb 500-44801...	<0.000	0.00	0.000	1.675	1146.76	98.799	28.730	290430.77	1.329
30	lcs 500-448014...	49.649	13572.36	1.309	1045.916	133111.86	2.316	10479.159	47958194.29	2.671
31	500-150788-a-...	<0.000	0.00	0.000	10.106	2226.90	23.306	26.268	283231.28	1.885
32	500-150788-a-...	0.025	13.33	80.748	5.409	1616.81	18.602	30.752	300768.48	6.294
33	500-150788-a-...	49.295	13792.55	1.232	1005.333	131012.86	1.432	10030.038	47002380.97	0.911
34	500-150788-a-...	52.127	13518.94	6.932	1114.351	134441.87	7.989	10926.551	47425752.63	7.861
35	500-150788-a-...	0.026	13.33	166.012	9.858	2163.55	11.480	4.099	179096.08	27.821
36	500-150788-a-...	<0.000	3.33	N/A	6.584	1770.16	8.516	34.260	317488.33	2.219
37	500-150788-a-...	0.001	6.67	6143.304	6.736	1733.48	10.944	22.654	256592.70	8.796
38	500-150788-a-...	<0.000	0.00	0.000	4.969	1556.81	25.152	36.621	325706.52	2.157
39	CCV	262.953	70140.01	1.261	261.753	33222.09	1.477	26002.103	1.15950E+08	1.969
40	CCB	0.027	13.33	216.853	1.680	1123.41	68.251	<0.000	155447.10	N/A
41	500-150788-a-...	<0.000	3.33	N/A	3.674	1400.11	21.269	28.315	289327.54	1.423
42	500-150788-a-...	0.018	10.00	245.126	3.467	1303.43	58.354	31.974	291765.58	25.878
43	mb 500-44844...	0.026	13.33	85.178	<0.000	910.06	N/A	<0.000	151056.42	N/A
44	lcs 500-448446...	47.661	13275.43	3.163	1005.589	130421.95	2.323	9835.493	45868355.98	2.748
45	500-150605-d-...	<0.000	3.33	N/A	169.670	23529.86	2.071	36825.744	1.76646E+08	3.372
46	500-150933-c-...	<0.000	6.67	N/A	178.381	24374.25	2.315	37105.943	1.75775E+08	0.604
47	500-150933-c-...	0.000	6.67	4997.086	180.128	24107.23	3.321	38020.258	1.76399E+08	4.806
48	500-150933-c-...	52.033	13865.94	17.985	1257.116	155908.87	17.604	49014.996	2.18406E+08	17.051
49	500-150933-c-...	<0.000	3.33	N/A	43.004	6384.75	11.042	7539.511	34600650.32	3.901
50	CCV	260.171	67770.62	2.590	270.425	33496.07	2.391	26219.588	1.14195E+08	1.728
51	CCB	0.091	30.00	42.048	3.497	1330.11	41.843	2.992	168947.91	29.236
52	CCVL	1.132	310.02	34.866	51.530	7328.47	3.433	210.475	1103353.11	0.288
53	mb 500-44838...	<0.000	3.33	N/A	2.017	1160.08	55.689	43.747	348748.88	7.301
54	lcs 500-448383...	48.850	13328.87	3.438	1015.521	129038.65	1.760	9991.077	45654694.32	0.957
55	500-150785-d-...	0.217	66.67	40.902	10.884	2353.58	7.203	1289.997	6119076.57	1.239
56	500-150785-d-...	0.266	80.00	72.233	6.292	1763.49	23.188	1352.428	6396854.90	0.408

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Analyte Table

	Sample Name	9 Be [He]			11 B [He]			23 Na [He]		
		Conc. [ppb]	CPS	Conc. RSD	Conc. [ppb]	CPS	Conc. RSD	Conc. [ppb]	CPS	Conc. RSD
57	500-150785-d-...	0.074	26.67	73.643	7.491	1853.50	5.103	1058.932	4873882.63	5.618
58	500-150785-d-...	0.279	83.34	60.714	167.900	22425.02	1.920	1564.002	7380898.02	1.192
59	500-150785-d-...	0.215	66.67	41.973	160.090	21610.58	1.839	1492.224	7111394.89	1.232
60	500-150785-d-...	48.986	13682.50	5.205	1156.623	150317.59	1.922	11084.089	51832782.56	0.701
61	500-150785-d-...	46.717	13078.54	1.439	1131.673	147394.16	2.860	10815.084	50684909.24	2.004
62	500-150785-d-...	0.039	16.67	147.575	45.798	6474.77	4.371	318.869	1554853.46	0.453
63	CCV	261.497	67917.80	0.994	273.206	33723.43	1.729	26074.635	1.13225E+08	0.596
64	CCB	0.028	13.33	322.307	5.830	1590.13	11.127	<0.000	152482.84	N/A
65	500-150785-d-...	0.821	233.34	18.372	168.095	22431.57	1.333	3019.460	14086483.54	1.377
66	500-150785-d-...	0.593	166.67	53.282	11.381	2366.93	13.543	1765.509	8143714.04	0.819
67	500-150785-d-...	0.001	6.67	1738.002	2.711	1246.76	47.266	34.221	307793.16	2.301
68	500-150785-d-...	0.123	40.00	60.343	250.844	32480.91	2.382	1601.040	7428908.85	0.342
69	500-150785-d-...	<0.000	6.67	N/A	11.617	2480.28	10.361	4009.530	18924800.97	0.763
70	mb 500-44821...	<0.000	3.33	N/A	2.126	1163.42	71.754	68.027	451974.58	17.119
71	500-150785-f-...	0.113	36.67	19.554	241.540	30760.99	2.098	1635.008	7450197.39	0.755
72	500-150785-e-...	0.012	10.00	298.645	11.604	2453.60	6.745	4022.378	18792422.64	1.097
73	CCV	265.882	68047.93	0.974	257.505	31375.45	1.553	26354.789	1.12768E+08	0.693
74	CCB	0.047	16.67	37.903	0.876	880.06	165.481	3.413	148776.89	139.014
75	CCVL	0.876	236.68	6.434	52.080	7248.42	7.954	208.875	1074179.18	0.666
76	500-150653-i-1-a	0.023	13.33	233.133	1606.292	212169.11	1.201	92343.089	4.38382E+08	0.850
77	500-150657-i-1-a	<0.000	6.67	N/A	80.204	11527.47	5.711	131580.420	6.24560E+08	3.951
78	500-150658-e-...	<0.000	0.00	0.000	1288.613	171794.25	1.876	63540.959	3.04178E+08	0.864
79	500-150689-f-1-a	<0.000	0.00	0.000	53.921	8212.24	3.624	7026.516	34058456.99	2.492
80	lb3 500-448263...	<0.000	0.00	0.000	14.521	2580.29	9.211	17948.081	75966105.53	0.330
81	lcs 500-448398...	51.329	13268.82	5.995	1121.226	134938.46	1.652	10211.586	44219521.01	1.010
82	500-150867-a-...	0.041	16.67	54.028	28.548	4274.02	10.262	1322.159	5807676.58	0.846
83	500-150867-a-...	<0.000	0.00	0.000	9.471	2066.88	7.267	288.344	1423583.83	1.343
84	CCV	265.903	69643.96	1.262	268.214	33402.43	1.506	26087.294	1.14237E+08	0.355
85	CCB	0.066	23.33	89.959	4.070	1396.78	13.124	<0.000	155225.22	N/A
86	CCVL	1.153	313.35	38.611	55.629	7775.41	3.728	208.004	1083788.39	1.877

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Analyte Table

	Sample Name	24 Mg [He]			27 Al [He]			39 K [He]		
		Conc. [ppb]	CPS	Conc. RSD	Conc. [ppb]	CPS	Conc. RSD	Conc. [ppb]	CPS	Conc. RSD
1	blk I.S. /tune	0.865	12148.05	69.994	<0.000	4600.82	N/A	0.549	546877.90	348.085
2	ICIS	0.000	9956.69	N/A	0.000	4754.18	N/A	0.000	544808.52	N/A
3	Std1	1135.179	2852743.39	0.596	1120.756	1827194.29	0.550	1106.536	4642010.56	0.768
4	Std2	10480.599	26467512.11	1.241	10466.602	17160861.83	1.769	10390.777	39394366.08	1.495
5	Std3	49901.177	1.24205E+08	1.523	49904.264	80657503.80	0.448	49919.714	1.84565E+08	1.145
6	S1	48719.257	1.23267E+08	1.380	49006.893	80512015.47	0.473	48864.064	1.83649E+08	1.201
7	ICV	20252.645	50540249.24	0.836	20303.806	32896178.68	1.313	20364.373	75792547.20	1.283
8	ICB	<0.000	8692.47	N/A	0.940	6034.64	18.310	<0.000	499547.47	N/A
9	/ICVL	260.720	550143.81	18.333	127.724	176011.64	20.014	669.804	2505338.09	23.311
10	icsa	99552.864	2.59536E+08	1.220	100712.094	1.70482E+08	0.483	100614.241	3.89068E+08	0.684
11	icsab	99916.851	2.54209E+08	1.512	100933.595	1.66745E+08	0.844	101892.216	3.84505E+08	1.685
12	ICVL	221.838	567715.38	1.279	116.072	194236.42	2.997	550.037	2588374.70	1.095
13	CRI	428.107	1095108.89	1.339	211.332	352572.08	1.423	1056.908	4512021.91	1.541
14	CCV	25848.224	64529770.71	0.597	25845.391	41892883.54	1.133	25764.112	95794878.57	0.458
15	CCB	0.552	11197.28	24.910	1.465	7068.39	4.519	<0.000	523692.90	N/A
16	mb 500-44807...	1.260	13092.00	15.836	4.787	12581.68	8.507	10.962	583152.70	8.022
17	lcs 500-448078...	10328.907	26711258.77	2.049	2064.025	3469418.91	1.945	10185.161	39553346.08	2.223
18	500-150763-a-...	50561.790	1.32665E+08	0.815	16.503	33022.26	2.500	3347.562	13572026.88	0.392
19	500-150763-a-...	52048.554	1.36346E+08	0.826	12.566	26280.65	2.743	3393.123	13726996.46	0.708
20	500-150763-a-...	5735.462	14657114.36	0.536	2.438	8825.96	0.424	362.305	1918506.90	0.649
21	500-150763-a-...	5768.367	14606780.20	1.013	1.736	7588.59	28.336	368.012	1922407.21	1.060
22	mb 500-44808...	5.428	23847.01	13.637	3.881	11201.48	16.748	37.045	687766.14	9.958
23	lcs 500-448089...	10207.175	26639630.44	1.042	2059.775	3494094.84	0.988	9964.471	39064371.09	0.924
24	500-150851-a-...	17203.652	43831171.01	1.546	2204.871	3651665.88	1.148	9149.910	35065842.81	2.013
25	/CCV	29393.791	64354360.71	20.060	29223.389	41568641.05	19.542	29256.233	95327308.58	20.239
26	CCB	2.749	16505.36	49.472	3.453	10180.07	27.943	<0.000	526614.60	N/A

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Analyte Table

	Sample Name	24 Mg [He]			27 Al [He]			39 K [He]		
		Conc. [ppb]	CPS	Conc. RSD	Conc. [ppb]	CPS	Conc. RSD	Conc. [ppb]	CPS	Conc. RSD
27	CCVL	215.737	542627.17	0.514	106.306	175136.82	0.858	536.084	2491544.70	1.045
28	CCV	26396.192	64379802.38	0.521	26130.291	41378713.55	0.492	26119.843	94865738.59	0.786
29	mb 500-44801...	3.976	19514.96	5.057	10.165	20936.54	8.172	11.248	571238.94	7.324
30	lcs 500-448014...	10577.488	26502552.94	2.162	2130.228	3468497.97	2.888	10510.224	39520301.91	3.178
31	500-150788-a-...	6.477	26050.16	1.404	21.793	40127.33	2.388	10.790	577416.88	26.336
32	500-150788-a-...	7.763	28971.42	8.516	46.691	79830.42	4.523	13.168	580580.00	41.250
33	500-150788-a-...	10124.132	25967164.61	1.041	2030.320	3384783.39	1.042	9924.684	38243816.10	0.550
34	500-150788-a-...	10920.249	25945127.11	8.115	2211.015	3413670.37	8.346	10842.247	38655626.09	8.114
35	500-150788-a-...	1.568	13535.86	14.864	4.789	12284.79	4.751	0.245	529452.01	1568.064
36	500-150788-a-...	32.153	89733.46	0.699	64.335	108561.02	1.268	32.710	654255.06	2.560
37	500-150788-a-...	5.525	22752.20	11.340	12.913	24705.72	6.744	13.025	563572.31	27.048
38	500-150788-a-...	25.418	72430.85	2.010	48.431	82244.75	2.401	36.907	664621.66	8.697
39	CCV	26073.628	63766934.05	1.471	25749.515	40886211.06	1.896	25834.761	94097961.93	1.664
40	CCB	0.748	11307.38	30.475	2.077	7798.74	21.134	<0.000	513542.83	N/A
41	500-150788-a-...	1.769	14092.83	12.493	6.030	14336.41	6.503	11.173	572435.54	17.892
42	500-150788-a-...	1.302	12361.50	42.644	5.705	13175.41	19.030	24.545	592571.68	89.359
43	mb 500-44844...	<0.000	9569.97	N/A	2.678	8922.77	61.151	<0.000	522813.87	N/A
44	lcs 500-448446...	9821.039	25069617.96	2.093	1946.748	3229969.01	2.452	9665.381	37074729.45	2.690
45	500-150605-d-...	27620.393	72690768.92	3.155	2.360	8962.67	6.173	6149.375	24536465.47	2.265
46	500-150933-c-...	28466.901	73983142.23	0.369	2.111	8429.00	9.875	6459.938	25420714.62	1.367
47	500-150933-c-...	29391.643	74821383.89	4.537	2.711	9259.51	0.867	6607.559	25460848.79	4.195
48	500-150933-c-...	40548.637	99075885.19	17.685	2157.817	3428195.68	17.529	17136.088	62577830.74	17.210
49	500-150933-c-...	5792.748	14533928.53	4.869	0.294	5174.31	61.523	1261.375	5223672.11	4.577
50	CCV	26674.328	63714309.05	1.825	26280.173	40755326.06	2.093	25926.099	92227561.96	1.305
51	CCB	3.422	17559.46	15.911	2.835	8875.95	3.970	0.700	515300.84	189.348
52	CCVL	214.956	538386.36	0.299	104.693	171815.68	1.033	523.783	2436159.96	0.200
53	mb 500-44838...	1.604	13252.59	93.989	4.326	11260.77	13.024	9.037	548808.90	28.091
54	lcs 500-448383...	10082.102	25216332.12	1.056	1988.961	3233479.33	0.775	9819.901	36899781.95	1.733
55	500-150785-d-...	640.530	1633157.58	1.347	20.788	38965.91	9.677	2005.103	8070159.26	1.557
56	500-150785-d-...	667.943	1699877.79	0.794	21.660	40313.01	13.427	2115.669	8471400.50	1.288

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Batch Summary Report

Analyte Table

	Sample Name	24 Mg [He]			27 Al [He]			39 K [He]		
		Conc. [ppb]	CPS	Conc. RSD	Conc. [ppb]	CPS	Conc. RSD	Conc. [ppb]	CPS	Conc. RSD
57	500-150785-d-...	425.428	1049428.27	5.980	23.621	42099.60	7.136	1313.731	5281268.67	6.104
58	500-150785-d-...	828.592	2108953.98	1.215	14.551	28678.98	3.248	1774.537	7202009.27	1.223
59	500-150785-d-...	783.758	2012826.17	0.986	13.492	27172.96	2.101	1638.791	6751390.32	1.405
60	500-150785-d-...	10486.225	26848772.93	0.845	1951.168	3247365.37	0.347	11173.742	42908746.03	0.671
61	500-150785-d-...	10193.693	26158905.44	0.681	1894.440	3159875.37	0.962	10774.245	41481547.71	1.431
62	500-150785-d-...	172.509	424675.40	0.195	3.525	10017.40	14.242	358.660	1795208.31	0.531
63	CCV	26125.839	62216637.41	0.492	25859.682	39984658.57	0.885	25873.237	91761355.30	0.191
64	CCB	2.692	15610.94	42.659	3.895	10390.15	29.097	<0.000	502137.36	N/A
65	500-150785-d-...	154.143	400172.35	0.850	69.105	118328.62	4.870	27.792	647459.93	3.232
66	500-150785-d-...	2774.143	6896103.65	1.233	68.084	114377.90	2.878	2752.906	10654845.26	0.941
67	500-150785-d-...	0.494	10647.08	177.433	4.509	11577.67	14.168	9.573	551942.79	20.009
68	500-150785-d-...	558.982	1402750.65	0.223	38.436	66856.54	1.240	1063.862	4461573.48	0.193
69	500-150785-d-...	6537.764	16803260.58	1.362	14.508	29018.10	7.856	11304.114	43560197.68	0.991
70	mb 500-44821...	6.104	23777.49	39.191	10.040	19945.45	25.267	5.874	533847.31	266.900
71	500-150785-f-...	532.680	1313664.85	1.298	28.690	50186.39	2.225	991.024	4118901.71	1.463
72	500-150785-e-...	6567.629	16709014.75	1.188	2.161	8328.97	6.437	11087.841	42306039.37	0.333
73	CCV	26420.996	61998832.41	0.561	26282.995	40045128.57	0.315	26190.315	91521101.97	0.292
74	CCB	3.599	15701.02	19.541	4.565	10066.56	20.348	17.440	499615.08	131.044
75	CCVL	215.987	530054.83	0.924	105.145	169078.15	0.840	525.773	2394348.87	0.275
76	500-150653-i-1-a	17734.035	46216897.64	2.034	<0.000	4570.75	N/A	5616.888	22236497.17	1.760
77	500-150657-i-1-a	2.070	15594.11	22.848	0.204	5224.35	56.296	37.393	703444.63	18.438
78	500-150658-e-...	15023.161	39474605.25	1.560	<0.000	3123.78	N/A	4707.891	18882950.55	0.894
79	500-150689-f-1-a	17911.365	47444324.29	1.550	<0.000	3487.15	N/A	3460.194	14140793.96	1.726
80	lb3 500-448263...	8.965	29889.46	1.052	7.251	15267.23	5.026	13.167	542926.45	10.439
81	lcs 500-448398...	10122.727	23994417.14	0.956	1981.430	3052811.41	1.182	9808.425	34931825.31	0.967
82	500-150867-a-...	4817.481	11322080.25	0.781	32.503	53955.63	1.917	637.017	2719621.11	0.892
83	500-150867-a-...	1013.324	2452865.95	1.235	7.737	16635.32	8.595	128.510	976398.21	2.654
84	CCV	26202.755	62924699.07	0.732	26032.515	40591425.23	0.921	25827.965	92368888.62	1.103
85	CCB	3.515	17769.73	15.162	4.749	11841.09	9.037	<0.000	509439.52	N/A
86	CCVL	213.461	530554.69	1.658	105.247	171363.10	1.227	522.760	2413610.22	1.370

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Analyte Table

	Sample Name	44 Ca [He]			47 Ti [He]			51 V [He]		
		Conc. [ppb]	CPS	Conc. RSD	Conc. [ppb]	CPS	Conc. RSD	Conc. [ppb]	CPS	Conc. RSD
1	blk I.S. /tune	0.618	4643.74	327.870	<0.000	50.00	N/A	<0.000	53484.57	N/A
2	ICIS	0.000	4542.99	N/A	0.000	63.33	N/A	0.000	55848.56	N/A
3	Std1	1088.424	181454.30	0.787	10.653	9369.56	2.346	11.008	264729.81	1.635
4	Std2	10147.395	1667585.03	1.438	101.245	89191.68	3.050	101.460	2003424.03	1.069
5	Std3	49968.753	8078863.39	1.013	499.738	433860.87	1.869	499.688	9512446.73	1.677
6	S1	48766.465	8013640.53	1.965	486.181	429058.12	1.276	486.409	9414443.40	0.703
7	ICV	20124.507	3264273.57	0.759	201.621	175508.62	2.206	199.488	3839959.22	0.934
8	ICB	<0.000	4045.93	N/A	<0.000	40.00	N/A	<0.000	22135.01	N/A
9	/ICVL	248.268	37201.28	20.747	5.877	4287.39	23.729	4.904	122919.13	32.548
10	icsa	99414.198	16830601.55	0.492	1992.107	1811375.86	1.148	<0.000	10033.30	N/A
11	icsab	100136.780	16543963.03	1.756	2023.711	1795852.89	1.236	17.988	403987.96	1.727
12	ICVL	215.902	39742.89	2.616	5.304	4714.16	1.783	4.174	135126.00	3.455
13	CRI	397.673	69968.53	3.835	10.497	9342.94	2.571	9.249	234077.82	0.731
14	CCV	25435.514	4126369.84	1.454	255.172	222217.27	1.169	255.406	4903185.03	1.300
15	CCB	<0.000	4105.30	N/A	<0.000	50.00	N/A	<0.000	29212.37	N/A
16	mb 500-44807...	46.027	12069.77	6.401	0.046	103.34	101.267	<0.000	30872.00	N/A
17	lcs 500-448078...	9663.673	1626565.70	1.764	988.631	891475.85	2.137	497.334	9834208.60	2.089
18	500-150763-a-...	119698.963	20394002.73	0.597	0.905	893.39	8.604	12.589	308914.30	1.039
19	500-150763-a-...	120791.865	20547142.67	0.598	0.815	810.06	34.526	13.097	318524.45	1.211
20	500-150763-a-...	13020.202	2163369.77	0.425	0.108	160.01	47.110	0.978	75182.30	4.086
21	500-150763-a-...	13113.640	2158923.69	1.120	0.091	143.34	7.003	1.059	76055.52	2.205
22	mb 500-44808...	39.532	11122.05	8.129	0.004	66.67	694.978	<0.000	36252.76	N/A
23	lcs 500-448089...	9450.543	1605355.84	1.249	972.053	884557.10	1.189	487.276	9724730.90	1.255
24	500-150851-a-...	54384.183	8999335.02	0.677	7.694	6903.74	13.445	0.529	66268.81	15.785
25	/CCV	28780.205	4096666.80	19.597	288.765	220871.28	18.797	288.917	4856905.87	20.474
26	CCB	1.528	4670.55	116.640	0.010	70.00	612.287	<0.000	25596.72	N/A

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Analyte Table

	Sample Name	44 Ca [He]			47 Ti [He]			51 V [He]		
		Conc. [ppb]	CPS	Conc. RSD	Conc. [ppb]	CPS	Conc. RSD	Conc. [ppb]	CPS	Conc. RSD
27	CCVL	201.850	36785.96	3.104	5.210	4554.14	9.541	3.900	127615.46	0.993
28	CCV	25754.295	4081782.07	0.340	254.846	216813.00	1.833	258.433	4846366.28	0.196
29	mb 500-44801...	51.897	12741.60	8.506	0.072	123.34	106.635	<0.000	24815.69	N/A
30	lcs 500-448014...	10059.070	1639686.78	3.575	1011.884	883837.69	3.122	511.094	9789230.90	2.603
31	500-150788-a-...	106.240	21769.66	7.258	0.283	310.01	13.138	<0.000	38627.92	N/A
32	500-150788-a-...	125.839	24700.54	5.116	0.242	270.02	55.301	<0.000	37231.23	N/A
33	500-150788-a-...	9540.575	1592796.61	0.423	960.729	859206.03	1.081	483.164	9477676.31	0.470
34	500-150788-a-...	10387.968	1606572.27	7.492	1048.960	869052.20	8.016	529.551	9617343.40	8.074
35	500-150788-a-...	19.353	7512.09	14.024	0.168	206.68	27.680	<0.000	35450.97	N/A
36	500-150788-a-...	158.039	29972.97	1.223	1.204	1106.77	23.722	<0.000	38664.56	N/A
37	500-150788-a-...	83.762	17410.65	5.781	0.278	293.34	5.094	<0.000	36780.47	N/A
38	500-150788-a-...	128.431	24999.75	2.378	1.029	946.78	14.017	<0.000	39573.39	N/A
39	CCV	25250.920	4012893.22	1.973	252.988	215832.17	1.460	252.651	4752097.85	1.572
40	CCB	<0.000	3892.44	N/A	<0.000	50.00	N/A	<0.000	25833.60	N/A
41	500-150788-a-...	60.649	14184.12	1.797	0.025	83.34	164.733	<0.000	25506.70	N/A
42	500-150788-a-...	53.122	12364.59	20.789	0.276	283.34	31.304	<0.000	29342.87	N/A
43	mb 500-44844...	<0.000	4268.87	N/A	<0.000	33.33	N/A	<0.000	28658.10	N/A
44	lcs 500-448446...	9110.415	1513744.53	2.440	933.833	831143.43	2.179	471.333	9200922.57	3.206
45	500-150605-d-...	68668.598	11736722.03	2.790	0.401	433.35	8.953	<0.000	48349.03	N/A
46	500-150933-c-...	73362.873	12381751.02	0.217	0.326	360.02	48.290	<0.000	48640.24	N/A
47	500-150933-c-...	75048.659	12404740.62	5.033	0.386	406.69	5.236	<0.000	48272.20	N/A
48	500-150933-c-...	86608.903	13750513.93	17.099	1024.882	873521.26	17.576	514.357	9611942.98	17.663
49	500-150933-c-...	14485.115	2363083.36	3.878	0.241	273.35	34.509	<0.000	40064.60	N/A
50	CCV	25536.618	3963677.85	2.122	252.757	210605.21	1.597	257.021	4720387.33	2.078
51	CCB	1.897	4570.70	27.343	0.016	73.33	78.221	<0.000	26354.41	N/A
52	CCVL	197.830	35994.66	1.718	5.120	4454.08	1.933	3.796	125107.85	2.070
53	mb 500-44838...	52.425	12497.65	5.946	0.052	103.34	118.282	<0.000	30882.20	N/A
54	lcs 500-448383...	9310.760	1515754.20	0.937	949.551	828076.65	1.043	482.423	9227484.86	1.025
55	500-150785-d-...	618.159	106249.94	0.839	0.818	786.72	12.220	<0.000	44355.02	N/A
56	500-150785-d-...	648.762	111091.97	1.857	0.691	673.37	18.345	<0.000	48964.59	N/A

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Batch Summary Report

Analyte Table

	Sample Name	44 Ca [He]			47 Ti [He]			51 V [He]		
		Conc. [ppb]	CPS	Conc. RSD	Conc. [ppb]	CPS	Conc. RSD	Conc. [ppb]	CPS	Conc. RSD
57	500-150785-d-...	666.357	110129.54	5.802	0.936	850.16	42.442	<0.000	49462.43	N/A
58	500-150785-d-...	862.696	146409.12	1.806	0.552	550.03	29.562	<0.000	49405.55	N/A
59	500-150785-d-...	808.898	138765.91	1.904	0.553	556.70	1.706	<0.000	49074.89	N/A
60	500-150785-d-...	9765.704	1627297.15	0.617	917.530	819142.77	0.476	466.019	9126940.07	0.711
61	500-150785-d-...	9499.078	1586327.49	1.556	893.378	799291.45	0.988	449.921	8832034.45	1.813
62	500-150785-d-...	176.441	31879.45	1.623	0.139	176.68	49.053	<0.000	41060.35	N/A
63	CCV	25338.546	3921205.86	1.047	253.874	210895.84	1.219	255.002	4669882.33	0.795
64	CCB	<0.000	3904.69	N/A	0.034	86.67	74.898	<0.000	28083.77	N/A
65	500-150785-d-...	66.944	15534.35	2.222	0.830	796.74	27.625	<0.000	45468.18	N/A
66	500-150785-d-...	204.018	37318.08	3.411	0.794	747.24	59.406	<0.000	42156.48	N/A
67	500-150785-d-...	29.975	9012.82	4.725	0.043	96.67	149.431	<0.000	39700.31	N/A
68	500-150785-d-...	340.193	59500.91	1.014	0.388	400.03	26.472	<0.000	45287.36	N/A
69	500-150785-d-...	11489.788	1920708.31	1.066	1.137	1083.42	9.387	<0.000	39282.63	N/A
70	mb 500-44821...	57.908	13238.06	20.788	0.068	113.34	112.988	<0.000	34415.76	N/A
71	500-150785-f-...	382.751	65218.66	0.766	0.264	286.68	33.361	<0.000	39232.61	N/A
72	500-150785-e-...	11381.092	1883369.91	0.236	0.835	803.38	23.026	<0.000	35734.82	N/A
73	CCV	25585.275	3901383.56	0.789	255.689	209302.91	0.048	258.649	4666735.34	0.329
74	CCB	0.387	3761.13	1244.376	0.018	66.67	50.554	<0.000	26297.69	N/A
75	CCVL	189.662	33993.37	2.729	5.071	4324.04	6.309	3.788	122459.26	3.495
76	500-150653-i-1-a	36731.051	6218269.48	1.307	0.303	340.02	35.439	<0.000	5044.28	N/A
77	500-150657-i-1-a	33.856	10387.05	8.681	0.325	356.69	59.038	<0.000	10310.26	N/A
78	500-150658-e-...	35905.499	6128743.82	0.799	0.332	370.02	24.883	<0.000	6978.36	N/A
79	500-150689-f-1-a	62434.245	10739639.26	1.249	0.250	296.68	6.425	<0.000	7251.80	N/A
80	lb3 500-448263...	80.786	16314.11	4.713	0.180	203.34	22.252	3.291	109059.54	5.019
81	lcs 500-448398...	9444.139	1457037.57	0.888	960.858	794157.49	0.491	492.770	8931571.74	0.770
82	500-150867-a-...	17178.139	2623157.69	0.724	0.807	720.04	22.321	8.338	200560.22	1.818
83	500-150867-a-...	3594.227	566953.42	1.900	0.171	203.34	69.531	1.102	73237.47	8.576
84	CCV	25302.026	3948311.19	1.414	253.446	212317.31	1.481	255.234	4713359.41	0.945
85	CCB	<0.000	4108.77	N/A	0.040	93.34	118.789	<0.000	27199.07	N/A
86	CCVL	195.687	35370.48	3.653	4.968	4290.70	2.387	3.784	123929.55	1.212

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Analyte Table

		52 Cr [He]			55 Mn [He]			56 Fe [He]		
	Sample Name	Conc. [ppb]	CPS	Conc. RSD	Conc. [ppb]	CPS	Conc. RSD	Conc. [ppb]	CPS	Conc. RSD
1	blk I.S. /tune	0.037	33196.53	88.627	<0.000	646.71	N/A	0.130	75290.95	257.723
2	ICIS	0.000	32461.83	N/A	0.000	660.04	N/A	0.000	72926.38	N/A
3	Std1	11.011	246655.73	0.176	11.276	178305.62	2.332	1106.689	20005459.70	1.068
4	Std2	103.736	2070595.02	0.907	104.064	1653369.82	1.765	10320.615	1.87458E+08	0.968
5	Std3	499.233	9702785.06	1.277	499.162	7817031.13	0.950	49933.743	8.93841E+08	1.745
6	S1	482.965	9542334.23	1.149	484.438	7711627.39	0.854	48653.497	8.85390E+08	0.508
7	ICV	202.119	3956735.88	1.283	205.497	3226301.31	0.944	20095.806	3.60667E+08	0.751
8	ICB	0.026	31573.55	207.880	0.015	863.38	56.157	0.346	75889.97	34.707
9	/ICVL	6.925	138097.41	26.711	3.341	44148.20	20.129	129.577	1992086.48	20.896
10	icsa	<0.000	16151.44	N/A	0.675	11754.43	2.614	95409.607	1.78890E+09	0.283
11	icsab	19.445	417585.53	1.732	21.162	339384.80	1.532	96905.371	1.77312E+09	1.876
12	ICVL	5.480	139434.85	0.180	2.898	46498.07	1.676	114.097	2135780.96	3.086
13	CRI	10.581	241174.27	2.021	5.364	86211.77	1.060	211.317	3925211.29	1.211
14	CCV	255.057	4987126.38	1.184	258.884	4066186.71	1.097	25563.215	4.58985E+08	0.817
15	CCB	<0.000	31893.86	N/A	0.020	970.07	18.728	1.055	90879.63	14.553
16	mb 500-44807...	0.313	38454.37	21.665	0.306	5524.44	6.225	7.059	200799.83	6.159
17	lcs 500-448078...	203.024	4117935.56	2.164	514.880	8374843.84	2.139	1028.296	19191533.47	2.442
18	500-150763-a-...	4.986	135359.12	0.468	1.887	31830.47	1.987	13.556	331112.51	1.543
19	500-150763-a-...	4.979	134998.11	1.466	0.713	12428.22	1.077	8.592	237059.76	3.665
20	500-150763-a-...	0.557	43733.57	1.524	0.368	6581.54	1.490	1.625	103191.98	2.371
21	500-150763-a-...	0.607	44318.50	4.336	0.121	2590.29	5.984	0.846	88091.00	3.807
22	mb 500-44808...	<0.000	22081.74	N/A	0.178	3528.83	4.628	4.042	147460.00	9.700
23	lcs 500-448089...	199.089	4075887.33	0.970	503.352	8262255.29	1.304	1003.379	18900665.55	0.981
24	500-150851-a-...	2.472	81591.85	4.304	142.268	2280680.43	1.261	2295.411	42118686.87	2.293
25	/CCV	289.050	4955630.97	19.727	291.500	4014687.96	20.204	28946.666	4.56034E+08	19.627
26	CCB	0.053	32611.97	63.897	0.038	1230.10	17.526	2.380	113353.73	27.159

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Analyte Table

	Sample Name	52 Cr [He]			55 Mn [He]			56 Fe [He]		
		Conc. [ppb]	CPS	Conc. RSD	Conc. [ppb]	CPS	Conc. RSD	Conc. [ppb]	CPS	Conc. RSD
27	CCVL	5.382	135039.81	2.755	2.786	43947.65	0.950	106.972	1971315.07	1.295
28	CCV	258.740	4942098.88	0.213	260.432	3996220.57	0.337	25774.498	4.52106E+08	0.386
29	mb 500-44801...	0.235	36109.03	7.355	0.233	4257.37	4.535	5.638	171128.96	1.416
30	lcs 500-448014...	209.031	4105993.06	3.172	525.922	8287586.96	2.380	1185.449	21421690.51	3.155
31	500-150788-a-...	0.426	40334.90	2.725	0.745	12394.91	3.094	14.456	332347.88	0.437
32	500-150788-a-...	0.429	39984.37	19.492	0.873	14283.07	1.031	17.713	387132.47	5.069
33	500-150788-a-...	195.799	3940034.52	1.018	498.901	8048141.55	1.380	1003.614	18580232.64	1.088
34	500-150788-a-...	215.373	4013143.69	7.468	543.425	8121003.00	8.024	1106.510	18971981.80	7.841
35	500-150788-a-...	0.045	32344.84	188.584	0.257	4617.48	7.046	2.829	120879.95	5.184
36	500-150788-a-...	0.677	44906.72	5.781	2.152	34322.17	2.567	152.093	2792160.27	0.484
37	500-150788-a-...	0.388	38103.39	3.638	0.446	7385.25	8.851	12.117	279175.50	3.946
38	500-150788-a-...	0.611	43302.47	9.448	1.736	27606.45	1.394	118.109	2167674.29	1.829
39	CCV	254.537	4875374.93	1.995	256.148	3941144.84	1.974	25396.691	4.46677E+08	1.974
40	CCB	0.043	31783.73	35.780	0.039	1220.10	21.516	1.584	97106.38	17.243
41	500-150788-a-...	0.270	36867.51	12.763	0.411	7041.71	7.126	30.675	617492.71	1.886
42	500-150788-a-...	0.394	37461.96	63.366	0.380	6281.41	12.314	24.238	478994.07	16.371
43	mb 500-44844...	<0.000	31616.75	N/A	0.163	3183.75	9.206	0.235	75158.67	400.682
44	lcs 500-448446...	190.444	3814617.23	2.522	486.125	7803438.84	3.183	970.345	17879454.73	2.356
45	500-150605-d-...	<0.000	8135.58	N/A	0.846	14706.85	1.878	5.908	187412.33	4.321
46	500-150933-c-...	<0.000	8055.51	N/A	0.804	13822.77	2.897	4.815	164612.49	3.384
47	500-150933-c-...	<0.000	11707.77	N/A	0.987	16461.77	6.822	5.416	172134.84	11.883
48	500-150933-c-...	204.080	3912181.92	17.748	527.599	8112604.05	17.418	1048.297	18482829.31	18.035
49	500-150933-c-...	<0.000	26621.52	N/A	0.318	5681.18	4.608	0.486	80848.41	28.507
50	CCV	257.666	4820013.37	1.660	258.290	3881579.73	1.540	25999.776	4.46617E+08	2.072
51	CCB	0.068	31813.94	45.940	0.056	1456.79	16.620	2.346	108964.24	10.907
52	CCVL	5.288	132694.49	0.777	2.749	43175.81	1.845	105.039	1928801.01	1.027
53	mb 500-44838...	0.375	37799.62	23.866	0.126	2540.29	20.071	3.621	131736.21	13.083
54	lcs 500-448383...	195.976	3845348.90	1.542	492.799	7752008.84	1.059	997.404	18005478.90	1.083
55	500-150785-d-...	0.741	47012.58	12.213	35.005	558780.89	1.166	11.575	283801.94	1.232
56	500-150785-d-...	0.723	46584.30	8.795	37.022	589957.15	1.708	19.493	427358.97	1.049

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Analyte Table

	Sample Name	52 Cr [He]			55 Mn [He]			56 Fe [He]		
		Conc. [ppb]	CPS	Conc. RSD	Conc. [ppb]	CPS	Conc. RSD	Conc. [ppb]	CPS	Conc. RSD
57	500-150785-d-...	0.547	41684.95	19.743	6.643	102768.63	6.599	30.294	602179.90	10.173
58	500-150785-d-...	0.631	44829.68	4.475	15.536	248250.96	2.024	6.887	198213.57	3.868
59	500-150785-d-...	0.723	47052.50	4.481	14.674	236582.00	1.128	9.803	253537.76	2.593
60	500-150785-d-...	190.556	3828709.32	0.431	497.946	8018699.47	0.857	978.690	18088372.65	0.372
61	500-150785-d-...	183.890	3703831.40	1.025	479.182	7733295.09	0.899	937.429	17365817.24	1.132
62	500-150785-d-...	0.152	33623.90	22.864	3.306	50693.03	1.484	1.364	92726.75	22.103
63	CCV	256.157	4777633.05	0.459	257.617	3859774.63	0.819	25862.220	4.42939E+08	0.574
64	CCB	0.059	31269.67	77.522	0.059	1496.79	9.325	3.080	120070.39	23.108
65	500-150785-d-...	0.314	38571.14	17.203	98.865	1575366.28	0.189	30.924	635757.69	1.084
66	500-150785-d-...	0.357	38631.30	16.786	71.915	1123772.85	1.121	13.356	309744.83	1.791
67	500-150785-d-...	0.312	36703.53	16.224	0.284	4944.25	4.899	3.189	124603.84	13.646
68	500-150785-d-...	0.584	43188.77	7.069	14.772	232239.41	0.240	11.609	279620.21	3.586
69	500-150785-d-...	0.362	40084.50	4.792	3121.781	50450392.58	1.223	4425.611	81830135.45	1.546
70	mb 500-44821...	0.243	35080.61	87.289	0.814	12865.24	10.306	7.432	195867.80	23.684
71	500-150785-f-...	0.456	40001.02	8.475	13.658	211020.18	0.547	4.259	145318.19	2.156
72	500-150785-e-...	0.194	36356.43	3.398	3088.237	49404922.60	0.873	3831.988	70148665.62	0.362
73	CCV	259.939	4776834.20	0.316	260.322	3843326.92	0.187	25944.930	4.37861E+08	0.412
74	CCB	0.279	31065.75	102.552	0.129	2243.58	13.350	4.264	123804.97	20.881
75	CCVL	5.337	130934.77	1.449	2.781	42801.25	1.694	105.739	1902223.46	0.208
76	500-150653-i-1-a	<0.000	5287.70	N/A	3.407	56531.20	1.069	10.554	272575.92	5.634
77	500-150657-i-1-a	<0.000	6284.73	N/A	0.045	1413.49	10.783	0.097	76666.71	132.793
78	500-150658-e-...	<0.000	5040.95	N/A	10.718	177840.19	0.917	570.599	10856088.59	1.044
79	500-150689-f-1-a	<0.000	4470.76	N/A	27.126	452629.60	2.061	17.702	413233.32	1.328
80	lb3 500-448263...	4.739	115206.26	2.208	0.905	13812.72	3.762	6.389	173183.92	0.800
81	lcs 500-448398...	204.891	3808955.67	0.670	507.824	7570943.84	0.653	1022.909	17499234.74	0.666
82	500-150867-a-...	4.849	118643.05	2.710	1.313	20005.71	2.094	38.390	715810.09	1.030
83	500-150867-a-...	1.052	50575.59	3.583	0.350	5934.58	9.251	8.257	212468.58	4.419
84	CCV	256.196	4818537.12	0.982	257.037	3883410.46	1.060	25760.479	4.44882E+08	1.434
85	CCB	0.006	30651.61	349.087	0.070	1676.81	8.081	3.973	136866.82	7.541
86	CCVL	5.257	131074.77	1.303	2.718	42366.75	4.905	105.473	1921437.47	1.671

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Analyte Table

	Sample Name	59 Co [He]			60 Ni [He]			63 Cu [He]		
		Conc. [ppb]	CPS	Conc. RSD	Conc. [ppb]	CPS	Conc. RSD	Conc. [ppb]	CPS	Conc. RSD
1	blk I.S. /tune	0.003	290.01	120.060	<0.000	123.34	N/A	0.013	2497.99	53.812
2	ICIS	0.000	216.68	N/A	0.000	160.01	N/A	0.000	2304.63	N/A
3	Std1	11.489	284111.84	0.155	11.766	70965.49	3.253	11.480	175863.44	1.206
4	Std2	106.098	2643137.88	0.679	107.101	649883.82	1.513	108.605	1605617.19	0.842
5	Std3	498.751	12247411.90	1.690	498.545	2982070.48	1.160	498.249	7246154.99	0.501
6	S1	489.491	12219928.15	0.456	488.436	2969710.37	1.128	506.212	7264670.54	1.137
7	ICV	204.107	5024582.22	1.057	207.274	1242913.97	1.127	207.509	3060788.42	0.408
8	ICB	0.017	603.37	28.331	0.010	210.01	97.707	0.037	2824.71	11.528
9	/ICVL	1.370	28267.58	18.485	2.766	13912.85	20.614	2.937	38545.97	20.759
10	icsa	0.196	5267.69	6.004	0.366	2460.28	8.625	0.339	6696.95	5.218
11	icsab	20.427	513011.14	0.959	20.173	123509.55	0.162	23.296	306296.72	1.275
12	ICVL	1.097	27429.61	1.477	2.239	13689.32	2.284	2.812	44296.55	1.778
13	CRI	2.151	54020.39	2.029	4.379	26831.93	2.607	4.415	68737.00	1.448
14	CCV	259.011	6379093.86	0.957	261.319	1567669.40	1.642	268.941	3871176.51	0.236
15	CCB	0.022	763.38	16.139	0.010	216.68	91.294	<0.000	2142.38	N/A
16	mb 500-44807...	0.012	516.69	15.990	0.214	1460.12	9.664	0.628	11965.43	3.074
17	lcs 500-448078...	509.385	12991577.72	2.647	516.557	3209464.64	1.671	270.154	4019952.90	2.386
18	500-150763-a-...	0.581	15250.67	3.741	3.349	21280.64	1.361	6.068	83521.61	0.736
19	500-150763-a-...	0.566	14847.09	0.744	3.020	19164.74	6.334	4.326	59024.12	2.201
20	500-150763-a-...	0.062	1786.83	7.512	0.359	2366.92	4.264	0.671	11907.59	0.721
21	500-150763-a-...	0.055	1600.14	9.503	0.338	2216.91	7.834	0.462	8825.70	2.667
22	mb 500-44808...	0.010	466.69	23.434	0.081	660.04	23.353	0.426	8683.42	1.016
23	lcs 500-448089...	496.962	12792555.64	0.328	503.574	3157255.06	1.099	267.125	3921507.07	1.304
24	500-150851-a-...	0.824	20920.16	1.304	3.984	24545.04	2.589	61.794	872471.44	0.637
25	/CCV	292.773	6326343.45	19.750	296.075	1557830.86	20.004	305.518	3844522.07	21.899
26	CCB	0.037	1110.08	32.259	0.037	376.68	31.047	0.040	2838.05	26.392

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Analyte Table

	Sample Name	59 Co [He]			60 Ni [He]			63 Cu [He]		
		Conc. [ppb]	CPS	Conc. RSD	Conc. [ppb]	CPS	Conc. RSD	Conc. [ppb]	CPS	Conc. RSD
27	CCVL	1.101	27052.44	1.651	2.281	13699.28	0.996	2.227	35511.60	2.156
28	CCV	260.465	6267073.66	0.575	264.467	1549988.83	0.656	273.537	3828275.12	0.021
29	mb 500-44801...	0.024	796.72	31.439	0.186	1260.09	3.241	0.409	8413.28	5.080
30	lcs 500-448014...	525.676	12989791.06	2.450	529.086	3184611.31	2.360	273.928	3971489.84	2.306
31	500-150788-a-...	0.060	1700.15	11.466	0.660	4134.00	7.732	0.463	9270.40	3.183
32	500-150788-a-...	0.029	923.39	6.586	0.766	4717.50	8.433	0.615	11555.15	2.629
33	500-150788-a-...	498.557	12612151.48	0.915	501.601	3090786.20	1.072	264.494	3868603.60	0.639
34	500-150788-a-...	543.933	12745967.73	8.153	548.263	3128126.41	8.877	284.337	3902459.29	8.227
35	500-150788-a-...	0.063	1750.15	3.890	0.204	1366.78	7.184	0.121	4073.86	10.990
36	500-150788-a-...	0.053	1513.47	4.247	7.482	44880.15	1.921	0.792	14049.23	1.785
37	500-150788-a-...	0.026	833.39	14.969	0.580	3510.50	0.333	0.600	11047.03	2.417
38	500-150788-a-...	0.040	1183.42	13.270	6.262	37308.58	0.336	1.273	20936.36	3.379
39	CCV	257.894	6222310.95	1.455	259.753	1526489.35	1.921	265.461	3759834.85	1.901
40	CCB	0.031	950.07	36.635	0.027	306.68	27.946	0.037	2796.93	11.405
41	500-150788-a-...	0.026	836.72	18.900	0.212	1420.11	11.912	0.522	10110.89	3.109
42	500-150788-a-...	0.014	533.37	20.445	1.262	7305.19	14.086	0.651	11552.93	17.052
43	mb 500-44844...	0.008	410.02	112.066	0.045	420.03	65.856	0.046	2934.74	4.821
44	lcs 500-448446...	484.087	12187316.49	2.206	487.152	2987231.83	2.459	254.280	3719806.10	2.050
45	500-150605-d-...	0.250	6718.24	5.713	3.741	23827.44	2.507	1.573	24881.67	3.045
46	500-150933-c-...	0.245	6501.53	3.915	3.677	23123.10	0.757	6.294	90652.91	0.590
47	500-150933-c-...	0.253	6578.17	7.600	5.921	36376.36	5.058	2.144	31436.85	6.583
48	500-150933-c-...	510.426	12311610.65	17.155	508.275	2985749.02	17.267	290.041	3745481.80	18.072
49	500-150933-c-...	0.082	2256.91	8.690	0.730	4560.81	2.638	0.430	8547.79	2.662
50	CCV	260.874	6147109.49	1.796	262.460	1506483.83	1.759	268.132	3724837.21	0.496
51	CCB	0.049	1356.77	28.870	0.046	416.69	13.738	0.039	2786.93	4.151
52	CCVL	1.105	27022.12	2.616	2.229	13332.35	4.010	2.227	34859.12	2.252
53	mb 500-44838...	0.016	593.37	35.723	0.102	743.38	12.630	0.714	12614.80	2.366
54	lcs 500-448383...	497.310	12267083.99	1.768	498.067	2992614.54	1.069	258.125	3742221.80	1.402
55	500-150785-d-...	2.192	55009.91	3.110	5.129	31396.50	1.159	2.015	31798.80	0.942
56	500-150785-d-...	2.277	57050.16	1.064	5.413	33069.63	0.655	2.462	37777.49	0.939

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Analyte Table

	Sample Name	59 Co [He]			60 Ni [He]			63 Cu [He]		
		Conc. [ppb]	CPS	Conc. RSD	Conc. [ppb]	CPS	Conc. RSD	Conc. [ppb]	CPS	Conc. RSD
57	500-150785-d-...	0.244	6104.63	4.353	1.816	10823.81	4.618	2.091	31979.06	6.593
58	500-150785-d-...	0.918	23143.11	4.473	4.381	26831.82	1.536	0.990	16529.25	3.637
59	500-150785-d-...	0.866	22054.93	1.645	4.156	25686.74	1.259	0.808	14051.48	2.153
60	500-150785-d-...	480.058	12123032.74	0.393	484.795	2981976.83	0.645	259.215	3734251.10	0.488
61	500-150785-d-...	462.251	11698561.49	1.141	469.152	2891906.31	1.239	252.548	3614857.64	2.043
62	500-150785-d-...	0.239	5884.59	2.354	0.952	5657.82	3.528	0.202	5109.71	2.653
63	CCV	257.742	6055304.07	0.291	262.085	1499813.31	0.540	268.853	3696824.71	0.847
64	CCB	0.054	1466.80	15.982	0.057	473.36	42.047	0.038	2739.14	29.105
65	500-150785-d-...	27.386	684265.28	0.902	2.756	16925.65	2.375	3.981	60102.42	1.415
66	500-150785-d-...	4.032	98967.34	1.868	2.263	13655.90	2.689	3.013	45751.41	0.605
67	500-150785-d-...	0.020	686.71	28.923	0.070	556.70	16.375	1.073	17976.30	2.240
68	500-150785-d-...	1.466	36242.83	3.722	0.959	5897.90	9.607	1.564	25066.38	0.864
69	500-150785-d-...	18.821	477215.46	1.128	5.004	31049.06	1.689	1.202	19120.87	1.333
70	mb 500-44821...	0.036	1046.74	28.349	0.377	2306.90	20.088	0.880	14940.00	12.387
71	500-150785-f-...	1.348	32765.89	4.232	0.903	5467.77	8.038	2.021	31325.59	1.984
72	500-150785-e-...	18.712	469669.05	0.165	4.922	30234.34	3.866	0.584	10317.67	1.052
73	CCV	261.381	6050932.20	0.461	263.281	1484562.69	1.105	268.089	3682250.69	0.791
74	CCB	0.051	1216.75	13.106	0.054	400.02	32.464	0.034	2366.86	87.570
75	CCVL	1.126	26978.91	1.302	2.289	13409.07	3.236	2.247	34381.49	0.928
76	500-150653-i-1-a	0.102	2837.01	2.523	0.162	1180.09	20.577	11.759	168850.07	1.011
77	500-150657-i-1-a	<0.000	206.67	N/A	0.223	1556.80	7.710	0.368	7299.44	3.619
78	500-150658-e-...	0.177	4804.22	8.375	0.141	1056.74	12.258	0.099	3520.40	0.913
79	500-150689-f-1-a	0.149	4107.30	6.424	0.917	6004.64	3.236	67.419	981308.54	1.291
80	lb3 500-448263...	0.040	1103.42	11.425	0.284	1726.83	10.760	1.540	23437.33	0.308
81	lcs 500-448398...	509.250	11905736.49	0.288	506.471	2884163.71	0.379	262.153	3619505.13	0.781
82	500-150867-a-...	0.154	3767.24	11.153	0.694	4060.61	7.966	2.398	35484.81	0.644
83	500-150867-a-...	0.038	1110.08	16.836	0.138	953.39	13.344	0.531	9816.24	3.961
84	CCV	259.778	6154458.45	0.756	260.969	1506007.11	0.640	268.486	3738160.41	1.769
85	CCB	0.057	1536.80	11.866	0.055	463.36	44.182	0.055	2991.42	5.632
86	CCVL	1.130	27412.75	3.789	2.160	12828.64	3.910	2.264	34819.01	1.124

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Batch Summary Report

Analyte Table

	Sample Name	66 Zn [He]			75 As [He]			78 Se [He]		
		Conc. [ppb]	CPS	Conc. RSD	Conc. [ppb]	CPS	Conc. RSD	Conc. [ppb]	CPS	Conc. RSD
1	blk I.S. /tune	0.027	906.73	85.914	<0.000	1595.75	N/A	<0.000	918.03	N/A
2	ICIS	0.000	816.72	N/A	0.000	1646.75	N/A	0.000	943.03	N/A
3	Std1	11.188	37342.06	1.105	10.393	34562.50	0.766	10.646	4306.90	0.836
4	Std2	105.956	338601.36	0.958	101.462	315443.23	1.047	102.583	32613.75	1.006
5	Std3	498.785	1566780.50	0.483	499.700	1523681.58	0.968	499.470	152875.29	1.179
6	S1	502.886	1558742.06	0.942	503.268	1514345.33	0.653	504.845	152481.61	0.612
7	ICV	204.568	651903.64	0.580	199.018	616209.25	0.352	199.526	62464.53	0.662
8	ICB	0.070	1030.07	31.878	<0.000	1175.71	N/A	0.102	960.70	96.478
9	/ICVL	26.167	71086.72	21.331	1.196	4466.94	32.206	3.693	1741.76	34.436
10	icsa	0.895	3373.79	6.302	<0.000	882.36	N/A	0.790	1073.37	27.704
11	icsab	23.908	68141.41	2.472	22.958	64252.91	0.478	24.572	7528.70	1.397
12	ICVL	22.149	72298.52	1.441	0.953	4600.97	6.506	2.844	1817.44	2.834
13	CRI	41.867	136897.21	0.424	1.984	7887.85	1.713	5.155	2557.87	3.878
14	CCV	263.537	819495.43	0.219	258.592	780988.02	0.581	260.127	79217.33	0.411
15	CCB	0.046	963.40	104.575	<0.000	1344.39	N/A	0.007	943.36	1247.503
16	mb 500-44807...	3.493	12401.70	3.446	<0.000	1369.73	N/A	0.140	997.37	117.209
17	lcs 500-448078...	533.851	1715182.84	2.626	102.722	321691.76	2.422	104.237	33370.21	1.927
18	500-150763-a-...	6.769	20349.52	1.390	5.993	18316.25	1.072	7.121	2834.91	2.850
19	500-150763-a-...	4.833	14466.83	2.826	6.383	19057.40	1.773	7.280	2826.91	1.079
20	500-150763-a-...	0.877	3517.16	6.955	0.601	3388.69	6.042	0.728	1118.04	19.439
21	500-150763-a-...	0.629	2726.99	10.817	0.603	3377.68	4.198	1.006	1196.04	27.068
22	mb 500-44808...	4.911	16745.60	2.377	<0.000	1149.04	N/A	<0.000	925.70	N/A
23	lcs 500-448089...	535.088	1696152.42	1.054	102.300	316075.67	1.044	104.706	33064.61	0.791
24	500-150851-a-...	136.624	416293.70	1.770	2.407	8629.55	1.699	0.842	1122.04	16.878
25	/CCV	300.264	815227.85	22.806	293.379	774094.08	22.311	295.585	78552.66	22.469
26	CCB	0.059	980.07	11.782	<0.000	1355.39	N/A	0.066	937.37	351.251

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Batch Summary Report

Analyte Table

	Sample Name	66 Zn [He]			75 As [He]			78 Se [He]		
		Conc. [ppb]	CPS	Conc. RSD	Conc. [ppb]	CPS	Conc. RSD	Conc. [ppb]	CPS	Conc. RSD
27	CCVL	20.727	67615.83	0.285	0.929	4520.95	3.834	2.340	1657.42	7.807
28	CCV	266.621	806086.91	0.348	261.556	768063.06	0.109	262.368	77677.16	0.942
29	mb 500-44801...	5.033	17119.12	0.733	<0.000	1503.07	N/A	<0.000	896.36	N/A
30	lcs 500-448014...	545.333	1707165.71	2.302	104.053	317487.08	2.068	105.438	32877.89	1.885
31	500-150788-a-...	3.385	11827.83	2.696	<0.000	1496.74	N/A	0.116	971.03	208.845
32	500-150788-a-...	5.619	19091.27	4.013	0.051	1791.77	40.034	0.005	936.03	3215.934
33	500-150788-a-...	518.801	1638503.88	0.629	100.268	308684.12	0.605	101.155	31856.29	0.608
34	500-150788-a-...	561.872	1665454.56	7.841	108.289	312818.72	7.638	109.312	32245.73	7.720
35	500-150788-a-...	0.839	3507.16	11.872	<0.000	1373.06	N/A	0.025	933.36	722.836
36	500-150788-a-...	57.763	186405.09	1.360	0.084	1873.11	24.111	<0.000	915.36	N/A
37	500-150788-a-...	6.017	19888.96	5.168	0.158	2078.13	3.578	<0.000	873.36	N/A
38	500-150788-a-...	32.841	105017.87	2.543	0.323	2585.87	9.993	0.115	947.03	156.237
39	CCV	259.823	795006.01	1.801	254.364	755942.31	1.858	252.733	75752.13	2.085
40	CCB	0.102	1123.41	45.748	<0.000	1343.06	N/A	0.053	936.70	364.193
41	500-150788-a-...	4.664	15921.36	2.561	0.069	1843.44	15.728	0.069	952.70	228.598
42	500-150788-a-...	5.946	19288.25	12.437	0.083	1816.77	68.738	<0.000	888.36	N/A
43	mb 500-44844...	0.285	1706.82	9.720	<0.000	1313.06	N/A	0.039	931.36	424.191
44	lcs 500-448446...	504.095	1592216.96	2.315	96.818	298150.90	2.274	98.217	30962.97	1.299
45	500-150605-d-...	62.204	194395.37	7.515	2.516	9166.84	1.490	1.852	1455.07	8.952
46	500-150933-c-...	59.990	182943.99	0.659	2.703	9489.01	1.321	1.773	1394.39	6.215
47	500-150933-c-...	61.687	183192.79	5.718	2.776	9448.65	6.833	2.143	1466.07	12.325
48	500-150933-c-...	645.857	1801241.69	17.828	119.915	325371.85	18.890	122.510	33902.93	18.190
49	500-150933-c-...	11.641	37729.57	3.192	0.429	2911.26	8.119	0.105	944.36	62.346
50	CCV	264.073	792473.37	0.235	256.540	747767.44	0.768	258.731	76042.83	0.636
51	CCB	0.134	1210.09	25.274	<0.000	1351.39	N/A	0.151	954.36	120.903
52	CCVL	20.955	67107.02	2.615	0.935	4459.60	2.547	2.639	1718.76	1.659
53	mb 500-44838...	3.212	10893.83	7.028	<0.000	1415.40	N/A	<0.000	903.70	N/A
54	lcs 500-448383...	506.864	1586718.00	1.031	97.182	296587.84	1.785	98.584	30795.34	0.893
55	500-150785-d-...	11.105	35975.71	2.069	<0.000	1524.41	N/A	<0.000	874.03	N/A
56	500-150785-d-...	12.101	38554.77	0.426	0.017	1615.75	168.475	0.140	939.36	90.304

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Analyte Table

	Sample Name	66 Zn [He]			75 As [He]			78 Se [He]		
		Conc. [ppb]	CPS	Conc. RSD	Conc. [ppb]	CPS	Conc. RSD	Conc. [ppb]	CPS	Conc. RSD
57	500-150785-d-...	12.264	38554.54	4.606	0.029	1631.75	29.584	0.104	917.03	48.243
58	500-150785-d-...	11.584	36984.83	2.613	0.034	1671.42	39.780	<0.000	877.03	N/A
59	500-150785-d-...	8.906	28935.35	2.310	<0.000	1540.07	N/A	<0.000	857.36	N/A
60	500-150785-d-...	511.699	1591685.55	0.883	96.782	293514.41	0.231	97.613	30307.47	0.332
61	500-150785-d-...	501.939	1551321.38	1.772	94.727	285468.80	2.019	95.995	29631.27	1.065
62	500-150785-d-...	2.447	8415.74	6.622	<0.000	1485.74	N/A	<0.000	858.36	N/A
63	CCV	264.403	785392.17	0.856	256.693	740602.66	0.948	257.272	74850.54	0.974
64	CCB	0.116	1133.42	31.624	<0.000	1413.73	N/A	0.174	945.36	123.101
65	500-150785-d-...	8.531	27570.08	4.559	0.017	1627.42	49.753	<0.000	900.36	N/A
66	500-150785-d-...	8.969	28778.64	1.153	0.045	1702.76	35.352	0.102	927.70	158.103
67	500-150785-d-...	4.543	15187.29	2.362	0.006	1608.75	254.832	<0.000	880.03	N/A
68	500-150785-d-...	5.933	19505.13	2.387	0.025	1658.75	54.693	0.022	913.36	1026.301
69	500-150785-d-...	13.806	42881.84	0.415	0.253	2280.50	12.352	<0.000	856.69	N/A
70	mb 500-44821...	4.788	15757.93	10.792	<0.000	1462.07	N/A	<0.000	840.36	N/A
71	500-150785-f-...	5.772	18750.89	2.067	<0.000	1551.41	N/A	<0.000	873.69	N/A
72	500-150785-e-...	10.776	33403.89	2.130	0.181	2052.13	9.683	0.066	889.69	239.449
73	CCV	261.886	777062.26	0.654	256.805	740101.81	1.073	256.693	74599.06	1.799
74	CCB	0.123	1030.07	38.960	<0.000	1380.06	N/A	0.593	952.70	88.530
75	CCVL	21.059	65966.19	1.785	0.923	4326.23	1.355	2.570	1660.42	3.414
76	500-150653-i-1-a	15.210	47330.47	2.937	<0.000	287.33	N/A	0.190	936.36	93.851
77	500-150657-i-1-a	10.733	33306.91	1.835	0.008	1545.41	52.903	0.438	1000.03	30.105
78	500-150658-e-...	50.207	153189.23	0.520	<0.000	1061.04	N/A	0.997	1165.71	3.740
79	500-150689-f-1-a	60.934	191875.18	1.437	<0.000	1217.72	N/A	0.243	974.70	75.119
80	lb3 500-448263...	15.925	48383.48	2.608	0.990	4374.25	5.749	<0.000	846.69	N/A
81	lcs 500-448398...	620.244	1848972.00	0.177	97.386	283051.44	0.676	98.721	29366.50	0.987
82	500-150867-a-...	15.956	48700.83	0.386	3.102	10552.31	1.233	0.734	1077.04	11.423
83	500-150867-a-...	3.534	11737.88	6.915	0.646	3501.37	4.907	0.168	942.36	73.820
84	CCV	261.154	785509.18	1.525	254.976	744916.54	1.568	254.334	74936.23	1.510
85	CCB	0.089	1056.74	58.063	<0.000	1388.40	N/A	0.216	964.70	29.474
86	CCVL	21.141	66594.96	2.460	0.937	4392.25	2.164	2.397	1617.75	2.530

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Batch Summary Report

Analyte Table

	Sample Name	88 Sr [He]			95 Mo [He]			106 [Cd] [He]		
		Conc. [ppb]	CPS	Conc. RSD	Conc. [ppb]	CPS	Conc. RSD	Conc. [ppb]	CPS	Conc. RSD
1	blk I.S. /tune	0.008	1120.09	21.874	0.009	620.04	238.855	<0.000	456.69	N/A
2	ICIS	0.000	950.06	N/A	0.000	546.70	N/A	0.000	546.70	N/A
3	Std1	10.665	226766.31	1.698	10.289	82797.26	2.002	11.187	4087.34	5.602
4	Std2	103.638	2143858.87	0.854	102.358	799553.01	0.592	103.150	32439.58	3.462
5	Std3	499.259	10166900.47	0.432	499.523	3840134.32	1.707	499.346	152675.75	0.952
6	S1	505.210	10151760.68	1.184	500.153	3794684.73	0.372	509.336	153671.10	1.226
7	ICV	202.176	4174585.35	0.342	195.767	1526241.96	0.303	204.738	63778.01	2.645
8	ICB	0.001	963.39	722.749	0.054	966.73	17.480	0.019	543.36	443.839
9	/ICVL	5.065	89370.37	19.369	4.933	33023.79	19.482	0.067	476.69	38.467
10	icsa	0.966	19335.21	0.998	2039.276	14730931.45	0.808	0.174	540.03	133.804
11	icsab	24.307	445549.81	0.259	2116.586	14620174.36	0.736	22.427	6608.29	3.440
12	ICVL	4.257	90081.28	1.211	4.483	35976.95	1.552	0.629	733.38	86.314
13	CRI	8.246	174779.01	0.480	8.055	64646.82	1.289	1.099	886.73	37.215
14	CCV	261.577	5271324.82	0.168	257.360	1958150.75	0.161	261.416	79329.18	0.867
15	CCB	0.003	1006.74	187.750	0.074	1140.10	24.224	0.058	563.37	288.795
16	mb 500-44807...	0.042	1853.52	36.084	0.021	723.38	46.494	<0.000	526.69	N/A
17	lcs 500-448078...	1009.142	21021485.11	2.031	963.751	7579196.14	2.301	53.253	17142.91	3.058
18	500-150763-a-...	719.883	13541248.97	1.207	47.557	338170.02	0.417	0.253	553.37	133.022
19	500-150763-a-...	737.513	13618465.63	1.666	48.674	339775.87	1.182	0.517	616.71	70.810
20	500-150763-a-...	70.905	1437656.02	0.778	4.663	36193.93	3.072	<0.000	366.69	N/A
21	500-150763-a-...	71.057	1433454.77	0.323	4.601	35535.78	1.366	<0.000	466.69	N/A
22	mb 500-44808...	0.055	2100.23	16.329	<0.000	430.02	N/A	0.170	593.37	59.010
23	lcs 500-448089...	1017.666	20913170.11	1.165	963.781	7477379.68	1.246	51.965	16505.62	3.713
24	500-150851-a-...	163.424	3224620.68	0.436	3.908	29607.30	1.800	0.456	640.04	6.737
25	/CCV	297.537	5241612.63	21.944	293.962	1953348.36	22.681	297.093	78799.50	21.666
26	CCB	0.041	1770.16	34.706	0.106	1356.78	28.608	0.029	540.03	602.017

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Batch Summary Report

Analyte Table

	Sample Name	88 Sr [He]			95 Mo [He]			106 [Cd] [He]		
		Conc. [ppb]	CPS	Conc. RSD	Conc. [ppb]	CPS	Conc. RSD	Conc. [ppb]	CPS	Conc. RSD
27	CCVL	4.065	85928.12	0.457	3.927	31527.81	3.299	0.408	663.37	64.071
28	CCV	264.539	5183268.57	0.324	261.232	1932573.04	0.130	266.596	78655.19	1.089
29	mb 500-44801...	0.102	3077.08	11.993	0.065	1056.74	4.945	<0.000	463.36	N/A
30	lcs 500-448014...	1029.766	20901500.11	1.663	988.904	7577969.68	1.630	52.897	16585.61	1.810
31	500-150788-a-...	0.188	4917.55	8.605	0.264	2646.98	12.555	<0.000	536.70	N/A
32	500-150788-a-...	0.156	4244.01	11.054	0.059	1010.07	19.946	0.077	566.70	476.447
33	500-150788-a-...	992.095	20310991.78	1.873	960.702	7425911.97	0.853	53.428	16892.61	1.033
34	500-150788-a-...	1072.699	20608673.86	8.297	1032.246	7489708.01	7.649	56.006	16592.22	9.562
35	500-150788-a-...	0.112	3267.11	9.783	0.303	2923.70	6.417	0.230	606.70	227.659
36	500-150788-a-...	0.262	6388.13	1.170	0.281	2747.01	10.301	<0.000	523.36	N/A
37	500-150788-a-...	0.143	3870.60	12.646	0.053	943.40	31.631	<0.000	490.03	N/A
38	500-150788-a-...	0.198	4984.28	6.313	0.141	1623.48	8.114	0.086	553.37	423.341
39	CCV	257.729	5110433.67	1.930	255.238	1910799.71	2.144	259.562	77510.48	3.163
40	CCB	0.013	1190.09	66.764	0.055	963.40	25.811	<0.000	480.03	N/A
41	500-150788-a-...	0.087	2767.02	12.044	0.002	556.69	453.071	<0.000	516.70	N/A
42	500-150788-a-...	0.097	2863.68	10.449	0.002	533.36	395.912	<0.000	490.03	N/A
43	mb 500-44844...	0.003	993.40	194.100	<0.000	376.69	N/A	<0.000	510.03	N/A
44	lcs 500-448446...	964.716	19753655.54	2.409	926.817	7164646.14	2.510	49.804	15784.77	2.094
45	500-150605-d-...	232.217	4692832.95	1.842	38.460	293877.15	2.114	<0.000	470.03	N/A
46	500-150933-c-...	250.699	4938937.22	0.524	36.875	274719.00	0.596	<0.000	426.69	N/A
47	500-150933-c-...	253.854	4870384.51	5.806	37.833	274437.36	6.192	0.022	496.69	1046.584
48	500-150933-c-...	1406.659	25411586.29	18.637	1118.022	7622977.39	18.843	57.618	16001.68	21.563
49	500-150933-c-...	46.071	948978.06	3.137	7.357	57674.78	3.951	<0.000	503.36	N/A
50	CCV	259.795	5052603.15	0.515	257.880	1893575.60	0.824	260.460	76284.13	0.534
51	CCB	0.052	1976.86	21.376	0.158	1753.51	32.034	<0.000	423.35	N/A
52	CCVL	4.034	83724.54	1.838	4.003	31551.06	1.749	0.428	656.71	119.967
53	mb 500-44838...	0.065	2230.23	31.502	0.044	866.72	66.605	<0.000	480.03	N/A
54	lcs 500-448383...	969.002	19665645.12	1.322	939.095	7195281.14	0.804	50.698	15914.86	1.845
55	500-150785-d-...	6.270	129780.80	0.614	0.314	2967.04	11.794	0.043	540.03	714.362
56	500-150785-d-...	6.645	135442.61	2.018	0.075	1096.75	5.852	0.137	560.03	218.871

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Batch Summary Report

Analyte Table

	Sample Name	88 Sr [He]			95 Mo [He]			106 [Cd] [He]		
		Conc. [ppb]	CPS	Conc. RSD	Conc. [ppb]	CPS	Conc. RSD	Conc. [ppb]	CPS	Conc. RSD
57	500-150785-d-...	4.057	81982.39	3.568	0.021	676.70	69.760	0.422	640.03	22.710
58	500-150785-d-...	8.095	165024.51	1.389	0.012	610.03	177.826	0.113	553.36	278.029
59	500-150785-d-...	7.781	160460.21	0.562	0.005	566.70	341.955	0.181	580.04	138.733
60	500-150785-d-...	981.741	19797510.96	0.881	940.461	7159871.97	1.254	51.851	16161.90	2.623
61	500-150785-d-...	956.936	19174220.13	1.430	920.697	6964700.31	1.635	48.928	15177.53	4.381
62	500-150785-d-...	1.624	33798.47	2.896	0.275	2623.67	18.894	<0.000	423.35	N/A
63	CCV	260.970	5023847.01	1.054	260.192	1891090.54	1.236	261.994	75949.59	2.222
64	CCB	0.040	1700.16	29.075	0.116	1403.44	6.358	<0.000	486.69	N/A
65	500-150785-d-...	1.255	26465.14	3.232	0.066	1030.08	11.229	<0.000	510.02	N/A
66	500-150785-d-...	23.609	478966.45	0.245	0.027	723.38	60.912	0.907	793.38	40.861
67	500-150785-d-...	0.072	2396.92	7.901	0.000	530.03	4516.585	<0.000	446.69	N/A
68	500-150785-d-...	4.649	96053.61	1.148	<0.000	513.37	N/A	<0.000	480.03	N/A
69	500-150785-d-...	66.586	1318445.50	0.987	0.327	2950.37	4.002	0.201	566.70	102.477
70	mb 500-44821...	0.130	3550.51	12.686	0.002	540.03	242.584	<0.000	450.02	N/A
71	500-150785-f-...	4.407	89899.66	1.613	<0.000	456.69	N/A	<0.000	376.69	N/A
72	500-150785-e-...	66.336	1304369.02	0.563	0.269	2496.96	8.105	<0.000	486.69	N/A
73	CCV	259.707	4993943.26	1.054	258.462	1876494.45	0.726	264.674	76632.90	2.638
74	CCB	0.039	1493.46	55.034	0.066	910.06	28.915	<0.000	440.02	N/A
75	CCVL	4.115	83526.22	1.054	3.869	29841.25	0.688	0.562	683.38	91.502
76	500-150653-i-1-a	419.767	8335123.62	1.910	0.379	3350.46	4.639	<0.000	473.36	N/A
77	500-150657-i-1-a	0.088	2610.30	15.087	10.612	79303.86	3.088	0.347	606.70	87.230
78	500-150658-e-...	360.542	7100344.27	0.971	15.791	117891.74	1.508	0.085	530.03	261.633
79	500-150689-f-1-a	173.219	3524164.01	1.354	1.610	12885.54	3.699	0.063	540.03	226.656
80	lb3 500-448263...	0.229	5304.40	2.052	0.049	853.39	45.296	0.019	503.37	2471.054
81	lcs 500-448398...	978.379	18909481.38	1.350	964.461	7036902.39	1.474	50.408	15074.06	1.730
82	500-150867-a-...	18.076	353215.50	0.621	2.682	20236.26	0.866	<0.000	396.68	N/A
83	500-150867-a-...	3.665	74691.61	0.468	0.526	4517.43	7.991	<0.000	473.36	N/A
84	CCV	259.073	5050212.22	1.320	257.244	1893233.67	1.697	262.917	77165.42	2.714
85	CCB	0.048	1873.51	12.778	0.057	960.07	34.966	0.021	526.70	1330.303
86	CCVL	4.056	82813.14	0.586	3.996	30983.26	2.096	0.097	546.70	35.444

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Analyte Table

	Sample Name	107 Ag [He]			108 [Cd] [He]			111 Cd [He]		
		Conc. [ppb]	CPS	Conc. RSD	Conc. [ppb]	CPS	Conc. RSD	Conc. [ppb]	CPS	Conc. RSD
1	blk I.S. /tune	0.001	66.67	24.908	<0.000	3.33	N/A	<0.000	358.67	N/A
2	ICIS	0.000	43.33	N/A	0.000	16.67	N/A	0.000	416.46	N/A
3	Std1	1.126	20793.77	2.094	11.008	2626.98	3.218	10.944	38626.62	3.292
4	Std2	10.860	195418.82	1.271	104.011	24101.89	0.955	104.754	357597.70	1.738
5	Std3	99.913	1770258.20	0.137	499.178	113834.51	1.565	499.030	1676205.45	0.544
6	S1	101.036	1766457.63	0.804	500.125	112555.47	0.972	505.327	1674818.30	1.081
7	ICV	41.711	749250.22	0.106	201.717	46650.72	3.598	205.098	698641.15	0.183
8	ICB	0.006	146.67	14.638	0.043	26.67	150.457	0.020	479.85	19.296
9	/ICVL	0.651	9920.08	21.393	0.647	140.01	42.463	0.631	2150.83	27.387
10	icsa	0.025	450.03	33.189	14.398	3100.41	5.180	0.110	719.73	24.919
11	icsab	22.403	356676.20	0.913	36.883	7572.00	4.407	22.403	67955.64	0.380
12	ICVL	0.539	9866.65	2.037	0.513	136.68	19.517	0.541	2277.16	6.604
13	CRI	1.095	20122.90	1.663	1.101	276.68	38.226	1.003	3897.75	3.359
14	CCV	53.415	936504.20	1.092	261.081	58923.50	0.908	262.249	871781.86	0.543
15	CCB	0.005	126.67	68.334	0.028	23.33	88.910	0.020	485.38	42.551
16	mb 500-44807...	0.007	166.68	11.370	<0.000	10.00	N/A	<0.000	418.33	N/A
17	lcs 500-448078...	54.206	982379.44	2.861	59.420	13879.68	1.356	52.513	180820.30	1.941
18	500-150763-a-...	0.013	246.68	18.826	0.341	86.67	65.381	0.039	489.78	74.839
19	500-150763-a-...	0.008	166.68	2.789	0.622	143.34	17.797	0.042	487.37	68.753
20	500-150763-a-...	0.002	76.67	138.778	<0.000	10.00	N/A	<0.000	306.08	N/A
21	500-150763-a-...	0.002	70.00	156.680	0.048	26.67	193.843	<0.000	347.94	N/A
22	mb 500-44808...	0.002	76.67	76.936	<0.000	13.33	N/A	0.024	495.69	46.293
23	lcs 500-448089...	53.923	964163.16	1.576	59.240	13649.49	4.418	52.997	179997.24	1.378
24	500-150851-a-...	0.217	3767.25	4.243	0.458	116.67	31.907	0.173	947.17	17.045
25	/CCV	61.187	937042.95	22.565	295.456	58291.22	21.990	300.672	873281.71	22.346
26	CCB	0.008	180.01	22.670	<0.000	10.00	N/A	0.031	511.86	62.560

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Analyte Table

	Sample Name	107 Ag [He]			108 [Cd] [He]			111 Cd [He]		
		Conc. [ppb]	CPS	Conc. RSD	Conc. [ppb]	CPS	Conc. RSD	Conc. [ppb]	CPS	Conc. RSD
27	CCVL	0.549	10030.06	3.169	0.428	116.67	10.525	0.523	2211.79	4.617
28	CCV	54.314	925849.07	0.517	263.966	57929.73	1.170	265.837	859226.60	0.732
29	mb 500-44801...	0.008	193.35	27.894	0.000	16.67	44045.830	0.005	426.12	623.326
30	lcs 500-448014...	55.119	973437.28	1.817	60.429	13746.30	3.916	53.410	179222.69	0.915
31	500-150788-a-...	0.008	183.34	8.902	<0.000	16.67	N/A	0.003	422.15	288.189
32	500-150788-a-...	0.003	106.67	36.511	<0.000	6.67	N/A	0.014	462.48	171.976
33	500-150788-a-...	53.181	947454.49	0.118	58.098	13339.21	2.291	51.399	173943.79	0.227
34	500-150788-a-...	57.542	962075.19	7.939	61.756	13319.22	5.878	56.298	178814.48	7.474
35	500-150788-a-...	0.006	156.67	54.383	<0.000	6.67	N/A	0.022	483.03	152.204
36	500-150788-a-...	0.003	103.34	58.753	<0.000	6.67	N/A	0.008	432.69	191.169
37	500-150788-a-...	0.006	150.01	48.064	0.017	20.00	517.250	<0.000	359.58	N/A
38	500-150788-a-...	0.004	106.67	80.428	<0.000	13.33	N/A	0.011	438.47	243.269
39	CCV	53.337	920062.30	2.305	261.625	58111.08	0.465	261.199	854369.55	1.878
40	CCB	0.008	180.01	37.592	0.016	20.00	276.740	0.011	441.94	254.492
41	500-150788-a-...	0.002	76.67	33.953	<0.000	10.00	N/A	0.001	414.03	506.465
42	500-150788-a-...	0.001	63.33	97.713	<0.000	13.33	N/A	<0.000	383.41	N/A
43	mb 500-44844...	0.002	83.34	77.994	<0.000	0.00	N/A	0.004	419.66	363.583
44	lcs 500-448446...	51.518	917912.59	2.114	56.610	12999.01	2.483	50.064	169444.99	2.996
45	500-150605-d-...	0.006	153.34	65.907	0.285	80.00	44.308	<0.000	393.26	N/A
46	500-150933-c-...	0.001	60.00	149.003	0.201	60.00	38.355	<0.000	331.61	N/A
47	500-150933-c-...	0.000	40.00	925.950	0.272	73.33	52.888	0.013	414.12	104.038
48	500-150933-c-...	54.892	863239.36	18.130	62.035	12635.34	14.012	57.781	172546.17	18.358
49	500-150933-c-...	0.008	186.68	14.256	<0.000	13.33	N/A	0.001	406.93	673.303
50	CCV	53.872	911516.81	0.998	261.682	56996.93	1.412	262.925	843525.32	0.794
51	CCB	0.010	226.68	30.529	<0.000	3.33	N/A	0.001	403.20	1000.624
52	CCVL	0.557	9986.67	4.409	0.465	123.34	36.785	0.580	2362.91	8.988
53	mb 500-44838...	0.003	93.33	44.252	<0.000	6.67	N/A	<0.000	386.25	N/A
54	lcs 500-448383...	51.446	908429.52	1.349	56.557	12872.14	2.856	50.478	169309.18	2.842
55	500-150785-d-...	0.008	193.34	60.126	<0.000	0.00	N/A	0.053	579.26	44.923
56	500-150785-d-...	0.003	100.00	76.697	0.003	16.67	805.664	0.062	599.99	58.369

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Analyte Table

	Sample Name	107 Ag [He]			108 [Cd] [He]			111 Cd [He]		
		Conc. [ppb]	CPS	Conc. RSD	Conc. [ppb]	CPS	Conc. RSD	Conc. [ppb]	CPS	Conc. RSD
57	500-150785-d-...	0.001	60.00	148.900	0.401	106.67	42.100	0.482	1978.00	7.980
58	500-150785-d-...	0.000	46.67	212.985	<0.000	13.33	N/A	0.032	501.80	69.793
59	500-150785-d-...	0.002	76.67	111.954	<0.000	10.00	N/A	0.037	525.75	43.650
60	500-150785-d-...	51.809	909049.62	0.837	56.753	12832.15	3.451	50.597	168648.60	0.901
61	500-150785-d-...	50.760	884900.66	2.057	54.993	12358.43	0.725	49.138	162758.77	1.409
62	500-150785-d-...	0.006	153.34	66.712	<0.000	6.67	N/A	<0.000	356.29	N/A
63	CCV	53.931	903203.76	1.396	256.465	55300.79	1.220	264.067	838557.88	1.034
64	CCB	0.011	240.01	29.409	0.003	16.67	764.727	0.028	487.29	94.447
65	500-150785-d-...	0.003	96.67	74.831	0.032	23.33	80.404	0.024	477.96	85.195
66	500-150785-d-...	0.003	96.67	62.402	0.003	16.67	2300.197	0.104	741.60	11.788
67	500-150785-d-...	0.003	90.00	92.817	<0.000	3.33	N/A	<0.000	357.69	N/A
68	500-150785-d-...	0.002	70.00	92.477	<0.000	6.67	N/A	0.000	399.58	12573.674
69	500-150785-d-...	<0.000	33.33	N/A	0.050	26.67	106.232	0.169	937.71	8.624
70	mb 500-44821...	0.001	60.00	77.244	<0.000	13.33	N/A	<0.000	376.18	N/A
71	500-150785-f-...	<0.000	36.67	N/A	<0.000	6.67	N/A	<0.000	347.30	N/A
72	500-150785-e-...	0.001	50.00	1.841	0.096	36.67	27.186	0.064	592.50	27.575
73	CCV	53.897	901643.58	1.500	260.725	56150.56	1.272	264.000	837416.31	1.020
74	CCB	0.013	236.68	21.315	0.021	20.00	427.417	0.042	481.39	47.497
75	CCVL	0.565	9913.31	5.896	0.330	90.00	61.642	0.572	2285.70	9.114
76	500-150653-i-1-a	0.004	113.34	20.106	<0.000	13.33	N/A	0.001	390.67	1159.987
77	500-150657-i-1-a	<0.000	36.67	N/A	<0.000	10.00	N/A	0.029	479.46	99.909
78	500-150658-e-...	0.001	60.00	179.207	<0.000	13.33	N/A	0.011	420.64	292.546
79	500-150689-f-1-a	0.002	73.34	172.476	0.003	16.67	2755.596	0.030	498.04	67.177
80	lb3 500-448263...	0.005	116.67	48.586	<0.000	13.33	N/A	0.017	433.60	157.784
81	lcs 500-448398...	52.928	890043.35	0.902	56.558	12255.05	6.833	50.784	162218.12	2.130
82	500-150867-a-...	0.007	163.34	27.934	0.067	30.00	118.475	<0.000	354.21	N/A
83	500-150867-a-...	0.003	100.00	60.770	0.018	20.00	420.530	<0.000	370.19	N/A
84	CCV	53.821	912710.33	1.660	260.705	56913.29	2.472	263.761	848128.47	1.477
85	CCB	0.012	250.01	37.416	<0.000	6.67	N/A	0.068	625.25	23.338
86	CCVL	0.563	9939.95	4.036	0.504	130.00	61.051	0.544	2205.03	15.059

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Analyte Table

	Sample Name	118 Sn [He]			121 Sb [He]			137 Ba [He]		
		Conc. [ppb]	CPS	Conc. RSD	Conc. [ppb]	CPS	Conc. RSD	Conc. [ppb]	CPS	Conc. RSD
1	blk I.S. /tune	0.013	983.40	93.965	0.005	323.35	129.042	<0.000	56.67	N/A
2	ICIS	0.000	853.39	N/A	0.000	256.68	N/A	0.000	73.33	N/A
3	Std1	10.460	101780.99	2.255	10.562	146411.89	0.471	10.652	48731.64	1.026
4	Std2	103.793	978925.92	1.022	103.439	1397816.54	0.967	102.744	464850.88	0.861
5	Std3	499.232	4633381.81	1.088	499.301	6643699.49	0.559	499.438	2216593.40	1.152
6	S1	501.055	4588978.89	1.006	500.943	6577850.53	0.279	499.531	2216504.40	0.512
7	ICV	199.699	1879557.63	1.069	201.965	2724648.81	0.283	199.832	910170.64	0.913
8	ICB	0.102	1813.51	20.386	0.127	1993.55	4.518	0.014	136.67	40.076
9	/ICVL	6.274	50539.76	22.650	3.719	42633.63	21.069	3.021	11617.96	18.609
10	icsa	0.012	870.06	60.274	0.060	983.40	5.119	0.058	323.35	37.617
11	icsab	<0.000	696.71	N/A	22.633	270805.12	0.957	21.016	89204.69	1.955
12	ICVL	5.088	49392.71	2.144	3.056	42065.26	0.929	3.440	15381.31	6.133
13	CRI	10.344	100221.80	0.908	6.037	83410.99	1.263	5.137	23441.31	1.024
14	CCV	258.145	2371176.89	0.512	259.334	3414516.82	0.620	257.728	1136525.79	0.471
15	CCB	0.063	1460.13	35.825	0.089	1496.79	5.080	0.007	103.34	152.959
16	mb 500-44807...	0.182	2646.98	14.069	0.039	810.05	24.310	0.133	670.04	2.759
17	lcs 500-448078...	998.385	9478053.81	2.355	503.105	6847585.52	2.605	506.883	2315692.88	1.732
18	500-150763-a-...	0.382	4027.31	6.336	0.225	2987.07	4.650	77.077	325412.30	0.941
19	500-150763-a-...	0.149	1993.53	6.080	0.179	2383.61	5.987	76.202	316794.10	1.227
20	500-150763-a-...	0.072	1480.13	15.519	0.028	616.70	21.211	7.753	34234.11	0.684
21	500-150763-a-...	0.039	1166.75	24.511	0.015	443.36	20.669	7.842	35015.75	1.315
22	mb 500-44808...	0.073	1540.14	19.435	0.017	490.03	35.173	0.134	676.71	5.751
23	lcs 500-448089...	1005.600	9418340.69	1.176	505.061	6782141.57	1.049	510.334	2289343.92	1.229
24	500-150851-a-...	1.109	10760.65	0.214	1.418	18511.00	2.522	59.401	260136.72	0.924
25	/CCV	294.472	2363774.65	22.202	292.973	3371104.12	22.208	291.713	1135438.34	22.909
26	CCB	0.117	1930.18	8.676	0.093	1506.79	13.174	0.031	210.01	30.232

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Batch Summary Report

Analyte Table

	Sample Name	118 Sn [He]			121 Sb [He]			137 Ba [He]		
		Conc. [ppb]	CPS	Conc. RSD	Conc. [ppb]	CPS	Conc. RSD	Conc. [ppb]	CPS	Conc. RSD
27	CCVL	5.044	48897.80	0.660	3.051	41938.62	2.762	2.592	11651.32	3.529
28	CCV	261.732	2337581.01	0.818	262.249	3357317.97	0.663	255.874	1121038.42	0.704
29	mb 500-44801...	0.168	2453.63	21.380	0.085	1423.45	13.373	0.135	670.04	10.226
30	lcs 500-448014...	1023.040	9463139.86	2.188	513.016	6803586.36	2.251	521.349	2297710.33	2.342
31	500-150788-a-...	0.325	3974.00	13.066	0.083	1400.11	7.448	0.514	2390.27	5.535
32	500-150788-a-...	0.235	3107.05	9.215	0.040	810.05	19.295	0.360	1673.48	4.990
33	500-150788-a-...	989.557	9234387.15	0.222	494.176	6611476.15	0.863	502.740	2234801.95	1.037
34	500-150788-a-...	1073.724	9403560.90	7.872	533.614	6700894.69	7.722	542.916	2275808.82	8.586
35	500-150788-a-...	0.329	3973.99	5.389	0.081	1363.44	9.179	0.149	736.71	19.596
36	500-150788-a-...	0.214	2870.35	6.414	0.040	796.72	14.988	0.905	4120.66	13.383
37	500-150788-a-...	0.154	2266.91	11.966	0.033	686.71	34.470	0.241	1113.42	9.024
38	500-150788-a-...	0.156	2290.26	18.018	0.025	580.03	3.174	0.667	3017.09	4.031
39	CCV	255.296	2307333.15	2.550	256.082	3317581.41	2.241	252.379	1109171.34	1.177
40	CCB	0.110	1873.50	11.293	0.090	1473.46	3.581	0.032	210.01	58.383
41	500-150788-a-...	0.165	2423.61	9.330	0.040	800.05	18.460	0.113	573.37	13.903
42	500-150788-a-...	0.163	2300.25	29.374	0.028	610.04	33.195	2.033	8676.03	11.941
43	mb 500-44844...	0.066	1456.78	29.004	0.011	396.69	94.610	0.073	393.36	19.177
44	lcs 500-448446...	951.178	8876569.45	2.464	441.163	5902767.41	2.391	488.896	2164251.58	2.765
45	500-150605-d-...	0.128	1986.86	2.617	1.646	21978.94	2.865	399.619	1801653.15	3.057
46	500-150933-c-...	<0.000	650.04	N/A	1.349	17596.82	3.801	394.345	1752113.10	1.539
47	500-150933-c-...	<0.000	650.04	N/A	1.368	17383.13	6.405	399.655	1737098.05	6.297
48	500-150933-c-...	1126.435	9276732.99	18.361	528.620	6242420.53	18.277	987.549	3940345.05	19.546
49	500-150933-c-...	0.555	6024.68	6.933	1.415	19242.07	10.766	74.563	338051.01	1.589
50	CCV	258.984	2295863.61	0.884	260.626	3311840.26	0.705	252.636	1097136.91	1.017
51	CCB	0.216	2840.36	18.593	0.386	5424.46	8.124	0.068	363.35	13.076
52	CCVL	5.189	49365.69	0.820	3.329	44893.06	2.926	2.640	11748.04	6.054
53	mb 500-44838...	0.159	2303.58	28.754	0.305	4317.45	21.093	0.073	386.69	25.323
54	lcs 500-448383...	961.009	8888469.45	1.457	479.770	6362154.49	1.383	496.821	2159759.81	1.541
55	500-150785-d-...	0.327	3883.94	3.056	0.379	5341.10	14.480	36.516	160113.31	1.284
56	500-150785-d-...	0.196	2623.65	4.039	0.295	4147.36	12.808	38.267	167994.68	0.301

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Analyte Table

	Sample Name	118 Sn [He]			121 Sb [He]			137 Ba [He]		
		Conc. [ppb]	CPS	Conc. RSD	Conc. [ppb]	CPS	Conc. RSD	Conc. [ppb]	CPS	Conc. RSD
57	500-150785-d-...	0.236	2953.71	6.908	0.489	6644.94	3.404	17.611	75093.26	4.038
58	500-150785-d-...	0.259	3203.79	13.853	0.339	4740.87	4.216	34.807	151587.53	1.323
59	500-150785-d-...	0.233	3000.38	11.294	0.263	3765.57	1.430	32.365	145765.30	2.160
60	500-150785-d-...	973.579	8947901.33	0.890	481.760	6348140.53	0.666	521.352	2304847.78	0.155
61	500-150785-d-...	964.143	8804095.08	1.920	473.781	6202991.78	1.816	510.454	2247736.84	1.179
62	500-150785-d-...	0.275	3347.16	6.460	0.207	2983.74	5.652	6.888	30249.40	1.653
63	CCV	259.417	2276240.90	1.350	259.139	3259289.22	1.499	250.458	1090955.40	0.889
64	CCB	0.158	2260.24	22.022	0.172	2513.63	3.832	0.058	320.01	58.427
65	500-150785-d-...	0.750	7782.13	5.281	0.342	4797.54	6.009	68.400	303532.28	1.441
66	500-150785-d-...	2.086	20063.01	1.434	0.318	4450.78	3.137	300.126	1344076.54	1.315
67	500-150785-d-...	0.151	2236.90	3.593	0.166	2480.29	11.451	0.109	546.70	18.552
68	500-150785-d-...	1.063	10737.26	4.388	0.254	3647.22	12.507	60.509	265580.51	0.715
69	500-150785-d-...	0.739	7455.29	2.452	0.337	4590.83	7.714	44.825	194325.19	1.150
70	mb 500-44821...	0.109	1823.50	12.985	0.150	2230.23	23.823	0.172	820.05	16.979
71	500-150785-f-...	0.471	5146.08	11.225	0.223	3190.42	10.565	53.086	233238.25	0.694
72	500-150785-e-...	0.406	4420.77	5.511	0.228	3167.10	13.605	44.737	193663.52	2.240
73	CCV	259.858	2277654.86	0.801	259.532	3260746.62	0.922	253.528	1090243.40	0.304
74	CCB	0.140	1883.52	14.754	0.171	2226.91	12.754	0.060	280.01	55.692
75	CCVL	5.092	47400.08	1.524	3.120	41179.95	2.624	2.614	11481.22	3.047
76	500-150653-i-1-a	<0.000	326.68	N/A	0.005	300.01	106.118	100.842	445853.77	0.338
77	500-150657-i-1-a	<0.000	286.68	N/A	0.039	743.38	15.962	0.062	343.35	23.013
78	500-150658-e-...	<0.000	510.03	N/A	<0.000	193.34	N/A	35.301	155854.51	0.886
79	500-150689-f-1-a	<0.000	520.03	N/A	0.055	973.39	15.652	28.929	130509.01	1.663
80	lb3 500-448263...	0.922	8929.43	2.349	0.162	2283.59	1.450	0.642	2830.37	7.619
81	lcs 500-448398...	974.861	8586617.58	1.338	480.085	6062866.78	0.937	486.052	2084250.91	0.789
82	500-150867-a-...	1.511	14199.95	1.755	2.449	31427.96	1.002	19.235	83594.81	1.746
83	500-150867-a-...	0.184	2493.62	10.491	0.505	6888.39	6.328	3.899	17203.24	1.546
84	CCV	257.250	2285710.69	1.558	258.061	3286820.05	1.324	253.068	1098928.73	0.382
85	CCB	0.130	2016.87	9.885	0.133	2013.53	7.378	0.036	223.34	10.947
86	CCVL	5.227	48907.76	1.144	3.059	40608.41	1.888	2.611	11551.19	4.049

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Analyte Table

	Sample Name	150 Sm [He]			156 Gd [He]			205 Tl [He]		
		Conc.	CPS	Conc. RSD	Conc.	CPS	Conc. RSD	Conc. [ppb]	CPS	Conc. RSD
1	blk I.S. /tune							0.006	373.36	62.234
2	ICIS							0.000	210.01	N/A
3	Std1							10.412	286890.34	2.183
4	Std2							101.764	2700260.06	1.460
5	Std3							499.639	12426583.98	1.840
6	S1							498.938	12573092.73	0.474
7	ICV							198.918	5222399.30	1.014
8	ICB							0.111	3197.11	11.943
9	/ICVL							2.495	56796.77	19.538
10	icsa							0.022	723.37	4.786
11	icsab							20.199	487937.87	0.942
12	ICVL							2.097	56351.44	2.388
13	CRI							4.017	109649.33	0.939
14	CCV							254.924	6473124.28	1.908
15	CCB							0.097	2880.39	6.129
16	mb 500-44807...							0.021	793.39	5.824
17	lcs 500-448078...							95.913	2738231.83	1.567
18	500-150763-a-...							0.060	1593.48	3.125
19	500-150763-a-...							0.026	773.39	8.801
20	500-150763-a-...							0.004	293.35	62.810
21	500-150763-a-...							0.001	226.68	228.392
22	mb 500-44808...							0.001	240.01	191.541
23	lcs 500-448089...							102.111	2725113.92	1.734
24	500-150851-a-...							0.042	2026.88	3.455
25	/CCV							293.284	6537109.07	22.901
26	CCB							0.095	2820.37	9.608

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Batch Summary Report

Analyte Table

	Sample Name	150 Sm [He]			156 Gd [He]			205 Tl [He]		
		Conc.	CPS	Conc. RSD	Conc.	CPS	Conc. RSD	Conc. [ppb]	CPS	Conc. RSD
27	CCVL							1.994	54344.24	1.011
28	CCV							261.179	6522579.90	1.102
29	mb 500-44801...							0.077	2310.26	1.567
30	lcs 500-448014...							104.234	2735042.46	0.937
31	500-150788-a-...							0.049	1570.15	16.144
32	500-150788-a-...							0.012	533.36	29.401
33	500-150788-a-...							100.919	2662892.04	1.935
34	500-150788-a-...							110.460	2712393.60	7.413
35	500-150788-a-...							0.055	1700.15	14.569
36	500-150788-a-...							0.018	696.72	1.488
37	500-150788-a-...							0.003	293.35	59.813
38	500-150788-a-...							0.001	223.34	167.503
39	CCV							252.771	6433171.15	1.608
40	CCB							0.088	2573.65	12.896
41	500-150788-a-...							0.016	660.04	14.843
42	500-150788-a-...							0.007	383.35	14.016
43	mb 500-44844...							0.004	313.35	90.141
44	lcs 500-448446...							99.448	2594756.06	2.302
45	500-150605-d-...							0.027	890.06	18.094
46	500-150933-c-...							0.021	736.71	27.949
47	500-150933-c-...							0.022	746.71	20.596
48	500-150933-c-...							113.100	2617752.41	20.466
49	500-150933-c-...							0.012	520.03	19.636
50	CCV							258.296	6433172.61	0.830
51	CCB							0.089	2580.33	3.791
52	CCVL							2.004	53969.79	1.330
53	mb 500-44838...							0.009	433.36	31.519
54	lcs 500-448383...							97.612	2584676.99	0.774
55	500-150785-d-...							0.096	2827.02	13.174
56	500-150785-d-...							0.055	1700.16	6.230

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Batch Summary Report

Analyte Table

	Sample Name	150 Sm [He]			156 Gd [He]			205 Tl [He]		
		Conc.	CPS	Conc. RSD	Conc.	CPS	Conc. RSD	Conc. [ppb]	CPS	Conc. RSD
57	500-150785-d-...							0.031	1010.08	27.432
58	500-150785-d-...							0.036	1186.76	6.972
59	500-150785-d-...							0.033	1113.41	11.788
60	500-150785-d-...							100.402	2597468.04	0.898
61	500-150785-d-...							97.609	2543533.76	1.816
62	500-150785-d-...							0.039	1280.11	11.282
63	CCV							255.833	6417146.78	0.616
64	CCB							0.114	3238.81	10.532
65	500-150785-d-...							0.029	993.40	16.201
66	500-150785-d-...							0.065	1956.88	11.901
67	500-150785-d-...							0.004	316.68	30.153
68	500-150785-d-...							0.021	773.39	22.220
69	500-150785-d-...							0.097	2777.03	2.129
70	mb 500-44821...							<0.000	196.68	N/A
71	500-150785-f-...							0.018	686.71	22.348
72	500-150785-e-...							0.090	2593.65	5.342
73	CCV							253.416	6394716.78	0.582
74	CCB							0.119	3053.75	12.049
75	CCVL							2.006	53769.27	0.819
76	500-150653-i-1-a							0.005	336.68	51.600
77	500-150657-i-1-a							0.001	220.01	129.894
78	500-150658-e-...							0.000	203.34	296.921
79	500-150689-f-1-a							<0.000	183.34	N/A
80	lb3 500-448263...							0.004	290.01	100.483
81	lcs 500-448398...							103.115	2562562.25	0.297
82	500-150867-a-...							0.037	1166.75	12.093
83	500-150867-a-...							0.007	400.02	40.806
84	CCV							260.340	6448618.86	1.616
85	CCB							0.109	3090.43	0.828
86	CCVL							2.012	53962.96	0.760

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Analyte Table

	Sample Name	206 [Pb] [He]			207 [Pb] [He]			208 Pb [He]		
		Conc. [ppb]	CPS	Conc. RSD	Conc. [ppb]	CPS	Conc. RSD	Conc. [ppb]	CPS	Conc. RSD
1	blk I.S. /tune	0.002	140.01	182.992	0.001	96.67	481.357	0.003	546.69	81.937
2	ICIS	0.000	126.67	N/A	0.000	90.00	N/A	0.000	450.02	N/A
3	Std1	11.196	95351.45	0.625	11.306	86441.61	1.356	11.404	390424.70	1.318
4	Std2	105.235	886482.17	0.789	104.876	793319.15	1.267	105.900	3586735.46	1.152
5	Std3	498.929	4123153.17	0.837	498.999	3703070.05	0.936	498.792	16573662.04	0.873
6	S1	498.294	4116534.94	1.275	497.895	3693204.84	2.213	499.547	16592071.74	1.813
7	ICV	206.692	1752815.65	1.248	198.272	1509946.23	0.937	204.351	6967870.57	1.408
8	ICB	0.048	533.36	31.602	0.040	396.69	21.888	0.046	1996.80	12.471
9	/ICVL	0.689	4994.35	22.265	0.677	4407.48	19.209	0.675	19712.40	19.033
10	icsa	0.113	1040.08	7.986	0.108	876.72	15.125	0.105	3863.67	3.346
11	icsab	20.644	163158.13	1.573	20.646	146494.66	2.464	20.757	659603.35	0.911
12	ICVL	0.766	6478.28	2.639	0.735	5561.21	8.246	0.754	25562.64	4.588
13	CRI	1.093	9389.94	5.059	1.084	8335.92	4.159	1.104	38050.21	2.968
14	CCV	258.586	2123116.79	0.310	258.734	1907719.50	0.393	260.801	8609917.26	0.101
15	CCB	0.034	413.35	3.631	0.040	386.69	12.718	0.032	1530.09	10.837
16	mb 500-44807...	0.067	686.71	11.666	0.073	640.04	15.878	0.073	2903.57	3.467
17	lcs 500-448078...	107.067	910931.78	1.297	106.388	812698.58	2.339	107.277	3669586.28	1.540
18	500-150763-a-...	0.161	1383.45	3.196	0.141	1080.08	19.011	0.151	5187.22	8.803
19	500-150763-a-...	0.064	613.37	24.714	0.057	476.70	12.481	0.062	2353.50	9.529
20	500-150763-a-...	0.020	290.02	30.559	0.022	250.01	21.516	0.021	1140.06	19.996
21	500-150763-a-...	0.010	203.34	133.379	0.015	203.34	58.064	0.012	836.71	40.542
22	mb 500-44808...	5.012	42303.06	4.145	4.690	35545.68	0.574	4.883	165715.68	1.490
23	lcs 500-448089...	108.176	903685.95	0.830	106.763	800823.01	2.016	108.575	3646796.48	1.367
24	500-150851-a-...	5.344	43690.14	1.665	4.768	34994.39	1.005	5.075	166792.64	0.354
25	/CCV	297.078	2153485.49	22.749	295.581	1925930.49	22.022	298.872	8714823.93	22.431
26	CCB	0.038	446.69	25.399	0.039	383.35	13.608	0.040	1806.79	19.539

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Batch Summary Report

Analyte Table

	Sample Name	206 [Pb] [He]			207 [Pb] [He]			208 Pb [He]		
		Conc. [ppb]	CPS	Conc. RSD	Conc. [ppb]	CPS	Conc. RSD	Conc. [ppb]	CPS	Conc. RSD
27	CCVL	0.581	4961.01	8.644	0.557	4247.42	5.591	0.555	19015.29	2.116
28	CCV	261.586	2133783.30	1.638	260.452	1907840.49	1.678	264.190	8665138.10	1.417
29	mb 500-44801...	0.078	766.71	32.300	0.081	693.38	3.278	0.078	3036.90	10.326
30	lcs 500-448014...	110.319	905542.75	1.280	109.430	806572.49	1.652	110.714	3653735.72	1.840
31	500-150788-a-...	0.106	1013.41	9.574	0.101	853.39	5.769	0.098	3743.65	8.054
32	500-150788-a-...	0.120	1116.75	8.526	0.119	973.40	4.237	0.116	4297.06	5.399
33	500-150788-a-...	106.633	882699.13	0.917	105.591	784920.33	0.750	107.283	3570729.17	0.726
34	500-150788-a-...	115.211	899360.64	8.478	114.424	802069.42	8.588	116.003	3641022.52	8.480
35	500-150788-a-...	0.039	446.69	42.082	0.046	433.36	18.037	0.044	1910.12	2.766
36	500-150788-a-...	0.222	1976.86	4.202	0.202	1603.48	7.973	0.215	7651.03	2.375
37	500-150788-a-...	0.080	763.38	14.382	0.072	603.37	14.280	0.073	2800.21	5.318
38	500-150788-a-...	0.212	1866.85	12.580	0.192	1506.80	8.185	0.200	7040.88	7.812
39	CCV	258.816	2117964.76	0.263	257.495	1892235.60	0.378	261.331	8598572.79	0.586
40	CCB	0.040	450.02	10.390	0.030	310.02	27.146	0.038	1666.76	9.926
41	500-150788-a-...	0.079	776.72	2.168	0.075	643.37	11.603	0.078	3030.24	3.331
42	500-150788-a-...	0.046	480.02	16.459	0.051	436.69	43.669	0.050	1980.12	32.092
43	mb 500-44844...	0.018	270.01	52.926	0.025	273.35	23.744	0.019	1070.06	29.423
44	lcs 500-448446...	103.760	855311.71	2.911	103.499	766170.51	2.553	104.497	3463462.09	2.875
45	500-150605-d-...	0.210	1886.86	3.113	0.207	1650.15	17.960	0.210	7544.36	3.520
46	500-150933-c-...	0.227	2000.20	5.991	0.193	1523.46	9.832	0.215	7601.05	6.712
47	500-150933-c-...	0.214	1853.51	9.642	0.215	1656.83	4.168	0.219	7537.69	10.271
48	500-150933-c-...	116.247	863593.19	19.738	115.961	773375.22	19.939	116.962	3494008.23	19.659
49	500-150933-c-...	0.060	633.37	12.177	0.058	530.03	27.938	0.061	2513.51	11.763
50	CCV	261.479	2114298.72	0.785	260.747	1893257.11	1.417	262.793	8543972.95	0.841
51	CCB	0.044	476.69	7.482	0.052	466.69	11.297	0.052	2103.48	11.843
52	CCVL	0.553	4674.22	6.431	0.542	4097.37	3.436	0.542	18378.35	3.190
53	mb 500-44838...	0.048	506.70	11.027	0.043	400.02	37.725	0.047	1970.13	10.018
54	lcs 500-448383...	106.595	862886.37	1.501	104.853	762215.51	1.371	106.327	3460716.54	1.640
55	500-150785-d-...	0.071	703.38	9.728	0.071	606.70	7.111	0.074	2853.56	7.235
56	500-150785-d-...	0.062	630.03	18.426	0.070	600.03	20.208	0.064	2553.50	3.921

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Batch Summary Report

Analyte Table

	Sample Name	206 [Pb] [He]			207 [Pb] [He]			208 Pb [He]		
		Conc. [ppb]	CPS	Conc. RSD	Conc. [ppb]	CPS	Conc. RSD	Conc. [ppb]	CPS	Conc. RSD
57	500-150785-d-...	0.177	1526.81	5.762	0.148	1143.42	7.929	0.163	5623.95	3.271
58	500-150785-d-...	0.048	506.70	8.929	0.039	373.35	17.836	0.042	1793.44	5.310
59	500-150785-d-...	0.045	503.36	20.132	0.052	480.03	40.213	0.049	2086.80	23.796
60	500-150785-d-...	104.369	859218.11	0.174	103.382	764271.39	0.337	104.686	3465247.13	0.145
61	500-150785-d-...	102.799	842951.81	0.974	101.417	746776.35	0.855	102.980	3395237.24	1.037
62	500-150785-d-...	0.030	363.35	35.207	0.026	276.68	67.725	0.028	1350.07	20.006
63	CCV	260.022	2108867.10	1.045	260.227	1895282.58	0.867	262.080	8546565.23	0.859
64	CCB	0.058	593.37	27.361	0.048	433.36	28.691	0.055	2206.82	16.044
65	500-150785-d-...	0.117	1086.74	3.531	0.108	890.06	21.102	0.108	4023.69	4.733
66	500-150785-d-...	0.147	1350.12	4.334	0.123	1013.41	19.467	0.136	4997.19	4.040
67	500-150785-d-...	0.056	580.03	23.303	0.063	550.03	14.386	0.053	2160.14	4.910
68	500-150785-d-...	0.083	803.38	15.004	0.101	826.73	25.683	0.095	3560.31	1.657
69	500-150785-d-...	0.090	846.73	12.501	0.068	576.70	8.034	0.077	2916.88	8.391
70	mb 500-44821...	0.165	1466.80	11.790	0.169	1323.44	7.442	0.166	5870.67	8.859
71	500-150785-f-...	0.080	780.05	2.519	0.073	623.37	2.653	0.075	2903.57	0.024
72	500-150785-e-...	0.038	430.02	22.307	0.037	353.35	16.835	0.033	1503.43	7.124
73	CCV	262.474	2101580.28	0.702	260.962	1876309.29	0.938	263.903	8495998.15	0.631
74	CCB	0.064	556.70	17.748	0.076	563.37	10.093	0.067	2270.15	17.312
75	CCVL	0.556	4640.88	3.590	0.558	4157.39	5.524	0.545	18238.21	3.048
76	500-150653-i-1-a	0.129	1186.76	16.223	0.119	966.74	6.975	0.122	4477.11	0.800
77	500-150657-i-1-a	0.061	623.37	12.751	0.046	430.02	14.809	0.051	2123.48	6.983
78	500-150658-e-...	0.047	510.03	22.798	0.041	390.02	30.713	0.043	1853.45	18.595
79	500-150689-f-1-a	0.715	6124.81	1.606	0.666	5111.07	3.373	0.677	23284.43	2.446
80	lb3 500-448263...	0.134	1193.43	16.601	0.123	973.40	9.981	0.121	4323.72	6.757
81	lcs 500-448398...	105.943	845902.64	1.679	105.252	754744.94	1.074	106.332	3413849.69	1.177
82	500-150867-a-...	0.272	2320.26	4.268	0.258	1956.86	10.518	0.260	8891.33	0.633
83	500-150867-a-...	0.064	650.04	1.594	0.058	516.69	22.450	0.061	2426.84	2.606
84	CCV	261.993	2118302.47	0.559	261.685	1900012.58	0.218	263.570	8568577.27	0.314
85	CCB	0.066	656.71	47.704	0.068	576.70	13.853	0.063	2486.84	15.059
86	CCVL	0.548	4610.87	5.290	0.550	4130.72	3.116	0.562	18918.69	2.151

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ISTD Table

		6 Li-6 Internal Standard (ISTD) [He]		45 Sc (IS) (ISTD) [He]		89 Y - 89 (IS) (ISTD) [He]	
	Sample Name	CPS	Recovery%	CPS	Recovery%	CPS	Recovery%
1	blk I.S /tune	12017.91	100.0	204766.71	100.0	133774.99	100.0
2	ICIS	12344.78	100.0	204747.87	100.0	130116.60	100.0
3	Std1	12231.34	99.1	201962.93	98.6	132968.14	102.2
4	Std2	11397.42	92.3	203600.19	99.4	130244.40	100.1
5	Std3	11013.79	89.2	200724.64	98.0	130812.30	100.5
6	S1	11540.84	93.5	204033.80	99.7	129770.19	99.7
7	ICV	11390.81	92.3	201204.53	98.3	130200.25	100.1
8	ICB	11877.78	96.2	196047.55	95.8	129431.68	99.5
9	/ICVL	10286.83	83.3	170904.61	83.5	113148.68	87.0
10	icsa	11273.98	91.3	210229.94	102.7	129809.80	99.8
11	icsab	10456.76	84.7	205179.56	100.2	128578.44	98.8
12	ICVL	11204.00	90.8	202805.87	99.1	131715.69	101.2
13	CRI	11277.32	91.4	204424.53	99.8	131584.89	101.1
14	CCV	11330.70	91.8	201293.28	98.3	129111.96	99.2
15	CCB	11771.03	95.4	201834.14	98.6	130385.26	100.2
16	mb 500-44807...	11904.43	96.4	203737.44	99.5	132091.17	101.5
17	lcs 500-448078...	11717.60	94.9	208522.50	101.8	132797.16	102.1
18	500-150763-a-...	10917.03	88.4	211579.15	103.3	125830.71	96.7
19	500-150763-a-...	11093.91	89.9	211244.80	103.2	125389.71	96.4
20	500-150763-a-...	12344.68	100.0	205944.21	100.6	130589.57	100.4
21	500-150763-a-...	12241.35	99.2	204077.81	99.7	129171.92	99.3
22	mb 500-44808...	12608.28	102.1	205888.70	100.6	132316.55	101.7
23	lcs 500-448089...	11774.29	95.4	210387.69	102.8	130102.51	100.0
24	500-150851-a-...	11384.04	92.2	205455.13	100.3	143119.23	110.0
25	/CCV	10667.08	86.4	180756.21	88.3	116060.64	89.2
26	CCB	11897.84	96.4	199313.82	97.3	129277.17	99.4

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Batch Summary Report

ISTD Table

	Sample Name	6 Li-6 Internal Standard (ISTD) [He]		45 Sc (IS) (ISTD) [He]		89 Y - 89 (IS) (ISTD) [He]	
		CPS	Recovery%	CPS	Recovery%	CPS	Recovery%
27	CCVL	11857.80	96.1	199217.57	97.3	131134.26	100.8
28	CCV	11310.65	91.6	196652.11	96.0	127706.99	98.1
29	mb 500-44801...	12228.04	99.1	199213.60	97.3	128897.77	99.1
30	lcs 500-448014...	11517.53	93.3	202064.76	98.7	128325.81	98.6
31	500-150788-a-...	12077.92	97.8	201986.23	98.7	131631.72	101.2
32	500-150788-a-...	12107.86	98.1	200155.51	97.8	128993.05	99.1
33	500-150788-a-...	12261.40	99.3	206772.06	101.0	130627.36	100.4
34	500-150788-a-...	10950.59	88.7	192378.70	94.0	122416.60	94.1
35	500-150788-a-...	11897.79	96.4	198724.94	97.1	128846.92	99.0
36	500-150788-a-...	12097.91	98.0	200582.63	98.0	128483.86	98.7
37	500-150788-a-...	11694.23	94.7	194393.59	94.9	127557.18	98.0
38	500-150788-a-...	12161.28	98.5	199097.17	97.2	127033.03	97.6
39	CCV	11560.83	93.6	197220.65	96.3	126392.04	97.1
40	CCB	11877.80	96.2	195289.33	95.4	126566.60	97.3
41	500-150788-a-...	11981.16	97.1	199749.24	97.6	128160.75	98.5
42	500-150788-a-...	12031.28	97.5	192533.97	94.0	124725.00	95.9
43	mb 500-44844...	12177.94	98.6	199524.05	97.4	128823.37	99.0
44	lcs 500-448446...	12067.97	97.8	205823.13	100.5	129776.95	99.7
45	500-150605-d-...	12181.30	98.7	212311.64	103.7	130601.35	100.4
46	500-150933-c-...	12641.65	102.4	209553.40	102.3	129948.51	99.9
47	500-150933-c-...	12294.72	99.6	205520.47	100.4	127576.93	98.0
48	500-150933-c-...	11801.24	95.6	200898.91	98.1	121485.53	93.4
49	500-150933-c-...	12671.65	102.6	202471.12	98.9	130336.03	100.2
50	CCV	11584.27	93.8	192623.48	94.1	124438.05	95.6
51	CCB	11804.31	95.6	192733.93	94.1	125020.41	96.1
52	CCVL	12141.20	98.4	198357.20	96.9	126521.81	97.2
53	mb 500-44838...	12268.02	99.4	194185.17	94.8	126663.52	97.3
54	lcs 500-448383...	12161.28	98.5	201620.60	98.5	126512.37	97.2
55	500-150785-d-...	12614.93	102.2	204380.16	99.8	129757.37	99.7
56	500-150785-d-...	12308.07	99.7	204032.23	99.7	128507.77	98.8

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ISTD Table

		6 Li-6 Internal Standard (ISTD) [He]		45 Sc (IS) (ISTD) [He]		89 Y - 89 (IS) (ISTD) [He]	
	Sample Name	CPS	Recovery%	CPS	Recovery%	CPS	Recovery%
57	500-150785-d-...	12144.63	98.4	197489.65	96.5	123690.82	95.1
58	500-150785-d-...	12811.75	103.8	204303.18	99.8	128346.18	98.6
59	500-150785-d-...	12601.61	102.1	206076.56	100.6	130966.50	100.7
60	500-150785-d-...	11811.08	95.7	206397.49	100.8	128443.15	98.7
61	500-150785-d-...	11944.49	96.8	206857.83	101.0	129112.03	99.2
62	500-150785-d-...	12241.36	99.2	194105.55	94.8	125044.63	96.1
63	CCV	11030.45	89.4	192012.39	93.8	122495.81	94.1
64	CCB	12298.09	99.6	190338.04	93.0	123429.48	94.9
65	500-150785-d-...	12401.44	100.5	204156.89	99.7	146796.95	112.8
66	500-150785-d-...	12424.72	100.6	200191.51	97.8	183920.96	141.4
67	500-150785-d-...	12284.71	99.5	194581.37	95.0	127690.91	98.1
68	500-150785-d-...	12248.00	99.2	200957.52	98.1	131392.48	101.0
69	500-150785-d-...	11821.09	95.8	207149.89	101.2	134753.22	103.6
70	mb 500-44821...	12251.29	99.2	194090.13	94.8	125675.26	96.6
71	500-150785-f-...	12134.61	98.3	197436.56	96.4	123977.23	95.3
72	500-150785-e-...	11657.71	94.4	205048.67	100.1	124087.88	95.4
73	CCV	11354.06	92.0	189206.55	92.4	124880.61	96.0
74	CCB	10670.29	86.4	169696.71	82.9	111577.51	85.8
75	CCVL	12014.54	97.3	194375.16	94.9	126425.54	97.2
76	500-150653-i-1-a	12291.42	99.6	210132.71	102.6	129948.62	99.9
77	500-150657-i-1-a	11670.94	94.5	210380.02	102.8	131312.64	100.9
78	500-150658-e-...	12121.21	98.2	211863.66	103.5	130610.38	100.4
79	500-150689-f-1-a	11800.98	95.6	213587.40	104.3	130730.21	100.5
80	lb3 500-448263...	11927.86	96.6	187040.17	91.4	119165.49	91.6
81	lcs 500-448398...	11927.74	96.6	191079.35	93.3	119807.00	92.1
82	500-150867-a-...	12354.81	100.1	189375.28	92.5	120098.40	92.3
83	500-150867-a-...	12258.06	99.3	194468.21	95.0	124739.05	95.9
84	CCV	11434.10	92.6	193638.79	94.6	123647.59	95.0
85	CCB	11720.93	94.9	192592.81	94.1	123983.07	95.3
86	CCVL	12261.34	99.3	196837.71	96.1	125806.81	96.7

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ISTD Table

		103 Rh (IS) (ISTD) [He]		159 Tb (IS) (ISTD) [He]		209 Bi Internal Standard (ISTD) [He]	
	Sample Name	CPS	Recovery%	CPS	Recovery%	CPS	Recovery%
1	blk I.S /tune	185802.23	100.0	204892.95	100.0	112430.62	100.0
2	ICIS	185729.71	100.0	206436.42	100.0	112709.71	100.0
3	Std1	184643.15	99.4	207136.29	100.3	112742.87	100.0
4	Std2	180294.88	97.1	205136.40	99.4	108629.45	96.4
5	Std3	177547.79	95.6	201260.39	97.5	101823.21	90.3
6	S1	175207.72	94.3	201210.02	97.5	103155.26	91.5
7	ICV	179995.66	96.9	206523.60	100.0	107475.13	95.4
8	ICB	182825.65	98.4	205748.79	99.7	110460.24	98.0
9	/ICVL	155811.06	83.9	177205.33	85.8	94900.72	84.2
10	icsa	166830.97	89.8	197708.53	95.8	99968.14	88.7
11	icsab	159530.08	85.9	192365.74	93.2	98857.18	87.7
12	ICVL	182565.05	98.3	202044.87	97.9	109623.41	97.3
13	CRI	183814.15	99.0	206276.48	99.9	111526.76	99.0
14	CCV	175682.12	94.6	199943.85	96.9	103958.13	92.2
15	CCB	185319.44	99.8	203899.99	98.8	112394.03	99.7
16	mb 500-44807...	187476.67	100.9	204123.43	98.9	114156.53	101.3
17	lcs 500-448078...	181683.43	97.8	207185.33	100.4	116866.55	103.7
18	500-150763-a-...	163996.64	88.3	191394.17	92.7	96240.39	85.4
19	500-150763-a-...	161015.41	86.7	188475.45	91.3	95579.16	84.8
20	500-150763-a-...	176679.85	95.1	199806.28	96.8	106735.88	94.7
21	500-150763-a-...	175783.46	94.6	202054.57	97.9	107055.79	95.0
22	mb 500-44808...	183567.72	98.8	205020.57	99.3	113307.48	100.5
23	lcs 500-448089...	179182.84	96.5	203431.36	98.5	109254.67	96.9
24	500-150851-a-...	171997.13	92.6	198536.18	96.2	166059.06	147.3
25	/CCV	158004.03	85.1	181869.56	88.1	94037.31	83.4
26	CCB	180544.46	97.2	203852.44	98.7	112219.44	99.6

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Batch Summary Report

ISTD Table

	Sample Name	103 Rh (IS) (ISTD) [He]		159 Tb (IS) (ISTD) [He]		209 Bi Internal Standard (ISTD) [He]	
		CPS	Recovery%	CPS	Recovery%	CPS	Recovery%
27	CCVL	182297.17	98.2	202574.37	98.1	111157.85	98.6
28	CCV	170815.17	92.0	198661.47	96.2	102240.39	90.7
29	mb 500-44801...	183301.44	98.7	201486.90	97.6	112014.79	99.4
30	lcs 500-448014...	177017.62	95.3	199912.16	96.8	107411.30	95.3
31	500-150788-a-...	184086.03	99.1	204524.70	99.1	113424.27	100.6
32	500-150788-a-...	184089.29	99.1	201894.55	97.8	112688.81	100.0
33	500-150788-a-...	178519.78	96.1	201569.90	97.6	108016.05	95.8
34	500-150788-a-...	168216.92	90.6	190972.91	92.5	100905.84	89.5
35	500-150788-a-...	182405.49	98.2	202451.69	98.1	110637.69	98.2
36	500-150788-a-...	181724.25	97.8	202972.16	98.3	113260.84	100.5
37	500-150788-a-...	179548.07	96.7	196411.17	95.1	110667.20	98.2
38	500-150788-a-...	179530.36	96.7	200237.10	97.0	109714.37	97.3
39	CCV	172899.79	93.1	199280.65	96.5	104197.04	92.4
40	CCB	181076.14	97.5	198438.66	96.1	109928.98	97.5
41	500-150788-a-...	183281.49	98.7	201694.54	97.7	112349.58	99.7
42	500-150788-a-...	177744.65	95.7	193796.42	93.9	109162.63	96.9
43	mb 500-44844...	181003.81	97.5	200931.72	97.3	111315.62	98.8
44	lcs 500-448446...	178577.36	96.1	200814.50	97.3	106823.55	94.8
45	500-150605-d-...	176219.95	94.9	204559.89	99.1	106531.46	94.5
46	500-150933-c-...	171745.48	92.5	201486.42	97.6	105205.57	93.3
47	500-150933-c-...	167608.28	90.2	197602.43	95.7	101649.95	90.2
48	500-150933-c-...	160895.17	86.6	185398.06	89.8	97271.93	86.3
49	500-150933-c-...	179553.06	96.7	205568.60	99.6	109842.44	97.5
50	CCV	169548.97	91.3	196918.39	95.4	101951.11	90.5
51	CCB	178761.80	96.2	196653.54	95.3	108757.44	96.5
52	CCVL	178984.41	96.4	200631.23	97.2	109832.23	97.4
53	mb 500-44838...	178030.63	95.9	197604.79	95.7	109928.89	97.5
54	lcs 500-448383...	176953.97	95.3	197142.69	95.5	108387.27	96.2
55	500-150785-d-...	179198.75	96.5	198733.21	96.3	112041.77	99.4
56	500-150785-d-...	176549.22	95.1	198985.22	96.4	111356.13	98.8

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ISTD Table

		103 Rh (IS) (ISTD) [He]		159 Tb (IS) (ISTD) [He]		209 Bi Internal Standard (ISTD) [He]	
	Sample Name	CPS	Recovery%	CPS	Recovery%	CPS	Recovery%
57	500-150785-d-...	174461.00	93.9	193356.09	93.7	108418.89	96.2
58	500-150785-d-...	176790.28	95.2	197407.69	95.6	110153.80	97.7
59	500-150785-d-...	178790.69	96.3	204196.05	98.9	111621.86	99.0
60	500-150785-d-...	175821.05	94.7	200460.07	97.1	105897.90	94.0
61	500-150785-d-...	174731.69	94.1	199676.68	96.7	106686.54	94.7
62	500-150785-d-...	176612.86	95.1	198674.85	96.2	112537.97	99.8
63	CCV	167831.86	90.4	197509.50	95.7	102679.06	91.1
64	CCB	175917.87	94.7	197033.71	95.4	109184.34	96.9
65	500-150785-d-...	177587.79	95.6	201197.03	97.5	110717.41	98.2
66	500-150785-d-...	176562.48	95.1	203081.36	98.4	110600.76	98.1
67	500-150785-d-...	179260.52	96.5	198495.42	96.2	109603.76	97.2
68	500-150785-d-...	178422.82	96.1	198975.86	96.4	111375.92	98.8
69	500-150785-d-...	172537.66	92.9	196519.28	95.2	108274.25	96.1
70	mb 500-44821...	177934.44	95.8	199469.86	96.6	110556.91	98.1
71	500-150785-f-...	176102.60	94.8	199167.79	96.5	110764.96	98.3
72	500-150785-e-...	171332.19	92.2	196268.95	95.1	108284.20	96.1
73	CCV	167640.21	90.3	194984.83	94.5	103296.33	91.6
74	CCB	158152.69	85.2	174387.59	84.5	98845.86	87.7
75	CCVL	175073.60	94.3	197924.75	95.9	109308.98	97.0
76	500-150653-i-1-a	173139.80	93.2	200449.18	97.1	105743.09	93.8
77	500-150657-i-1-a	171537.70	92.4	199678.28	96.7	102470.96	90.9
78	500-150658-e-...	171700.48	92.4	200114.61	96.9	104970.93	93.1
79	500-150689-f-1-a	177368.45	95.5	204480.75	99.1	109572.97	97.2
80	lb3 500-448263...	169178.85	91.1	194885.72	94.4	104800.08	93.0
81	lcs 500-448398...	168513.08	90.7	194449.12	94.2	101722.08	90.3
82	500-150867-a-...	169956.77	91.5	196892.90	95.4	106448.50	94.4
83	500-150867-a-...	175538.11	94.5	199255.29	96.5	108817.83	96.5
84	CCV	169958.95	91.5	196892.75	95.4	101417.29	90.0
85	CCB	177000.83	95.3	196432.26	95.2	108865.34	96.6
86	CCVL	176065.78	94.8	199335.99	96.6	109396.33	97.1

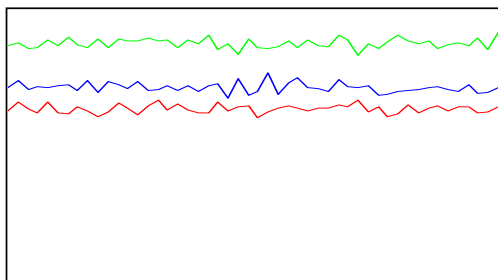
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09/07/2018

Tune Report

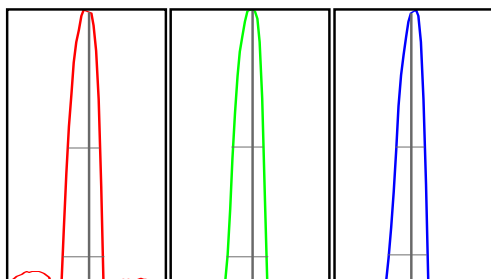
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Acq. Date-Time 9/5/2018 9:50
Report Comment 072015Atune
Instrument Name G3281A JP11040848

[He]



Mass	Range	Count	RSD%	Background
59	5000	3181	2.443	
89	5000	4370	2.042	
205	5000	3570	2.506	

Ratio 156/140 1.364 %
Integration Time [sec] 0.1 **Sampling Period [sec]** 0.31



Mass	Peak Height	Axis	W-50%	W-10%
59	3095.87	59.05	0.60	0.762
89	4375.11	89.05	0.56	0.737
205	3516.90	205.00	0.53	0.731

Integration Time [sec] 0.1 **Acquisition Time [sec]** 22.54 **Y Axis** Linear

Tune Parameters

Plasma Parameters

RF Power	1500 W	Nebulizer Pump	0.10 rps
RF Matching	1.80 V	S/C Temp	2 °C
Smpl Depth	9.0 mm	Gas Switch	Makeup Gas
Carrier Gas	1.00 L/min	Makeup/Dilution Gas	0.00 L/min
Option Gas	0.0 %		

Lenses Parameters

Extract 1	0.0 V	Cell Entrance	-50 V
Extract 2	-200.0 V	Cell Exit	-80 V
Omega Bias	-100 V	Deflect	3.0 V
Omega Lens	8.0 V	Plate Bias	-60 V

Cell Parameters

Use Gas	true	OctP Bias	-18.0 V
---------	------	-----------	---------

Tune Report

He Flow	3.5 mL/min	OctP RF	190 V
H2 Flow	0.0 mL/min	Energy Discrimination	3.0 V
3rd Gas Flow	0 %		

[no gas]

Mass	Range	Count	RSD%	Background
7	5000	3921	2.215	5.500
89	20000	9631	2.307	6.000
205	10000	5110	2.771	15.400

Ratio	156/140	1.419 %	Ratio	70/140	34.898 %
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Integration Time [sec]	0.1	Sampling Period [sec]	0.311
-------------------------------	-----	------------------------------	-------

Mass	Peak Height	Axis	W-50%	W-10%
7	3919.20	7.10	0.67	0.796
89	9706.86	89.05	0.58	0.754
205	5125.72	205.00	0.55	0.755

Integration Time [sec]	0.1	Acquisition Time [sec]	22.74	Y Axis	Linear
-------------------------------	-----	-------------------------------	-------	---------------	--------

Tune Parameters

Plasma Parameters

RF Power	1550 W	Nebulizer Pump	0.10 rps
RF Matching	1.80 V	S/C Temp	2 °C
Smpl Depth	9.0 mm	Gas Switch	Makeup Gas
Carrier Gas	1.00 L/min	Makeup/Dilution Gas	0.00 L/min
Option Gas	0.0 %		

Lenses Parameters

Extract 1	0.0 V	Cell Entrance	-34 V
Extract 2	-200.0 V	Cell Exit	-60 V
Omega Bias	-80 V	Deflect	14.2 V
Omega Lens	10.1 V	Plate Bias	-50 V

Cell Parameters

Use Gas	false	OctP Bias	-8.0 V
He Flow	0.0 mL/min	OctP RF	190 V
H2 Flow	0.0 mL/min	Energy Discrimination	5.0 V
3rd Gas Flow	0 %		

Metals Worksheet

Batch Number: 500-448602
 Method: 245.1
 Analyst: Gomez, Martin J

Date Open: Sep 06 2018 7:45AM
 Batch End:

Lab ID	Client ID	Method Chain	Basis	Final weight/volume of sample	M18BSTKHG_00001	M18ESTKHG_00001
blank						
0.2ppb						
0.5ppb						
1.0ppb						
3.0ppb						
5.0ppb						
ICV~500-448602/7		7470A		25 mL		0.00005 mL
ICB~500-448602/8		7470A				
CRA~500-448602/9		7470A		25 mL	0.000005 mL	
MB~500-448425/12-A		7470A				
LCS~500-448425/13		7470A				
LSD~500-448425/14A		7470A				
500-150786-C-7-B		7470A				
500-150630-F-1-E		7470A				
500-150630-C-2-B		7470A				
500-150630-C-2-C~DU		7470A				
500-150630-C-2-D~MS		7470A				
500-150630-C-2-E~MSD		7470A				
CCV~500-448602/19		7470A		25 mL		0.000025 mL
CCB~500-448602/20		7470A				
500-150828-A-1-B		245.1				
500-150883-C-2-D		245.1				
500-150732-A-1-A		245.1				
500-150732-A-2-A		245.1				
500-150630-F-3-B		7470A				

09/07/2018

Metals Worksheet

Batch Number: 500-448602

Date Open: Sep 06 2018 7:45AM

Method: 245.1

Batch End:

Analyst: Gomez, Martin J

Lab ID	Client ID	Method Chain	Basis	Final weight/volume of sample	M18BSTKHG_00001	M18ESTKHG_00001
500-150630-F-4-B		7470A	D			
500-150630-C-5-B		7470A	D			
500-150630-F-6-B		7470A	D			
500-150630-C-7-B		7470A	D			
500-150630-C-8-B		7470A	D			
CCV~500-448602/3 1		245.1		25 mL		0.000025 mL
CCB~500-448602/3 2		245.1				
LB3~500-448263/1- E		7470A				
500-150867-A-5-E		7470A	Y			
LB~500-448266/1-D		7470A				
490-158276-C-1-C		7470A	P			
490-158287-B-2-C		7470A	P			
500-150780-F-1-D		7470A	P			
500-150861-A-1-E		7470A	P			
LB~500-448354/1- C		7470A				
490-158287-A-1-C		7470A	P			
MB~500-448426/12- A		7470A				
CCV~500-448602/4 3		7470A		25 mL		0.000025 mL
CCB~500-448602/4 4		7470A				
LCS~500-448426/13 -A		7470A				
LB~500-447977/1-C		7470A				
500-150679-E-1-I		7470A	P			
500-150679-E-2-H		7470A	P			
500-150679-E-3-F		7470A	P			
500-150679-E-4-F		7470A	P			

09/07/2018

Metals Worksheet

Batch Number: 500-448602

Method: 245.1

Analyst: Gomez, Martin J

Date Open: Sep 06 2018 7:45AM

Batch End:

Lab ID	Client ID	Method Chain	Basis	Final weight/volume of sample	M18BSTKHG_00001	M18ESTKHG_00001
500-150679-E-5-F		7470A	P			
500-150679-E-6-F		7470A	P			
500-150679-E-7-F		7470A	P			
500-150679-E-8-F		7470A	P			
CCV~500-448602/5		7470A		25 mL		0.000025 mL
5						
CCB~500-448602/5		7470A				
6						
500-150679-E-8-G~		7470A	P			
DU						
500-150679-E-8-H~		7470A	P			
MS						
500-150679-E-9-F		7470A	P			
8						
500-150679-E-10-F		7470A	P			
9						
500-150679-E-11-F		7470A	P			
10						
500-150679-E-12-F		7470A	P			
11						
500-150679-E-13-F		7470A	P			
12						
500-150679-E-14-F		7470A	P			
13						
500-150679-E-15-F		7470A	P			
14						
500-150679-E-16-F		7470A	P			
15						
CCV~500-448602/6		7470A		25 mL		0.000025 mL
7						
CCB~500-448602/6		7470A				
8						
500-150679-E-17-F		7470A	P			
16						
500-150679-E-18-F		7470A	P			
17						
500-150679-E-19-F		7470A	P			
18						
500-150679-E-20-H		7470A	P			
19						
CCV~500-448602/7		7470A		25 mL		0.000025 mL
3						
CCB~500-448602/7		7470A				
4						

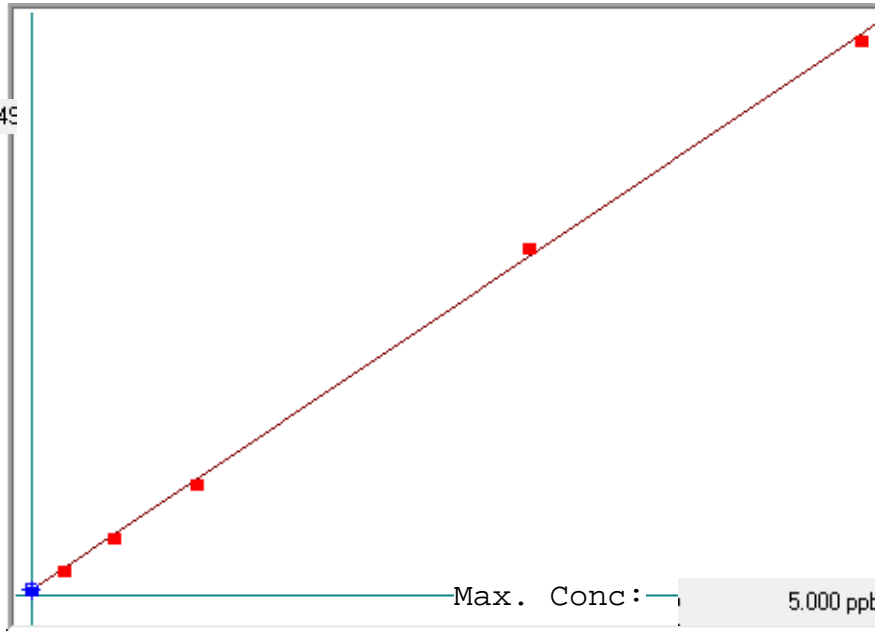
09/07/2018

Hg

Linear

μ Abs. :

49449



A= 0.0000e+000

B= 1.0096e-004

C= -4.4279e-002

Rho= 0.9996665

Accept = Accepted

Std ID	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
blank	0.000	0.013	0.013	572	0.000	572				
0.2ppb	0.200	0.192	-0.008	2337	0.0 %	2337				
0.5ppb	0.500	0.478	-0.022	5169	0.0 %	5169				
1.0ppb	1.000	0.974	-0.026	10088	0.0 %	10088				
3.0ppb	3.000	3.095	0.095	31091	0.0 %	31091				
5.0ppb	5.000	4.948	-0.052	49449	0.0 %	49449				

Type	Sample ID	Conc.	µ Abs.	Units	Date	Integration Time	Seq ID
S	blank - 1	-	572	ppb	06 Sep 2018 07:45:37	50.0000	14485
S	0.2ppb - 1	-	2337	ppb	06 Sep 2018 07:47:10	50.0000	14486
S	0.5ppb - 1	-	5169	ppb	06 Sep 2018 07:48:46	50.0000	14487
S	1.0ppb - 1	-	10088	ppb	06 Sep 2018 07:50:29	50.0000	14488
S	3.0ppb - 1	-	31091	ppb	06 Sep 2018 07:52:26	50.0000	14489
S	5.0ppb - 1	-	49449	ppb	06 Sep 2018 07:54:33	50.0000	14490
U	ICV - 1	1.9156	19412	ppb	06 Sep 2018 07:58:20	50.0000	14491
U	ICB - 1	-0.0534	-90	ppb	06 Sep 2018 08:00:03	50.0000	14492
U	CRA - 1	0.1813	2234	ppb	06 Sep 2018 08:02:06	50.0000	14493
U	mb 500-448425/12-a - 1	-0.0204	237	ppb	06 Sep 2018 08:04:19	50.0000	14494
U	lcs 500-448425/13-a - 1	1.9946	20194	ppb	06 Sep 2018 08:05:50	50.0000	14495
U	lcsd 500-448425/14-a - 1	1.8715	18975	ppb	06 Sep 2018 08:07:23	50.0000	14496
U	500-150786-c-7-b - 1	-0.0590	-146	ppb	06 Sep 2018 08:09:37	50.0000	14497
U	500-150630-f-1-e - 1	-0.0283	158	ppb	06 Sep 2018 08:11:51	50.0000	14498
U	500-150630-c-2-b - 1	-0.0252	189	ppb	06 Sep 2018 08:13:25	50.0000	14499
U	500-150630-c-2-c du - 1	-0.0240	201	ppb	06 Sep 2018 08:14:58	50.0000	14500
U	500-150630-c-2-d ms - 1	1.0266	10607	ppb	06 Sep 2018 08:16:32	50.0000	14501
U	500-150630-c-2-e msd - 1	0.9986	10329	ppb	06 Sep 2018 08:18:06	50.0000	14502
U	CCV - 1	0.9637	9984	ppb	06 Sep 2018 08:20:13	50.0000	14503
U	CCB - 1	-0.0453	-10	ppb	06 Sep 2018 08:22:48	50.0000	14504
U	500-150828-a-1-b - 1	1.6137	16422	ppb	06 Sep 2018 08:24:24	50.0000	14505
U	500-150883-c-2-d - 1	-0.0432	11	ppb	06 Sep 2018 08:25:56	50.0000	14506
U	500-150732-a-1-a - 1	0.0932	1362	ppb	06 Sep 2018 08:28:18	50.0000	14507
U	500-150732-a-2-a - 1	-0.0273	168	ppb	06 Sep 2018 08:29:52	50.0000	14508
U	500-150630-f-3-b - 1	-0.0362	80	ppb	06 Sep 2018 08:31:27	50.0000	14509
U	500-150630-f-4-b - 1	-0.0132	308	ppb	06 Sep 2018 08:33:02	50.0000	14510
U	500-150630-c-5-b - 1	-0.0197	243	ppb	06 Sep 2018 08:34:36	50.0000	14511
U	500-150630-f-6-b - 1	-0.0196	244	ppb	06 Sep 2018 08:36:10	50.0000	14512
U	500-150630-c-7-b - 1	-0.0025	414	ppb	06 Sep 2018 08:37:44	50.0000	14513
U	500-150630-c-8-b - 1	0.0930	1360	ppb	06 Sep 2018 08:39:19	50.0000	14514
U	CCV - 1	0.9571	9918	ppb	06 Sep 2018 08:40:54	50.0000	14515
U	CCB - 1	-0.0326	116	ppb	06 Sep 2018 08:42:39	50.0000	14516
U	lb3 500-448263/1-e - 1	-0.0280	161	ppb	06 Sep 2018 08:44:33	50.0000	14517
U	500-150867-a-5-e - 1	-0.0130	310	ppb	06 Sep 2018 08:46:06	50.0000	14518
U	lb 500-448266/1-d - 1	0.0477	911	ppb	06 Sep 2018 08:47:39	50.0000	14519
U	490-158276-c-1-c - 1	-0.0428	15	ppb	06 Sep 2018 08:49:12	50.0000	14520
U	490-158287-b-2-c - 1	-0.0160	280	ppb	06 Sep 2018 08:50:46	50.0000	14521
U	500-150780-f-1-d - 1	0.0301	737	ppb	06 Sep 2018 08:52:18	50.0000	14522
U	500-150861-a-1-e - 1	-0.0311	131	ppb	06 Sep 2018 08:53:52	50.0000	14523
U	lb3 500-448354/1-c - 1	0.0274	710	ppb	06 Sep 2018 08:55:27	50.0000	14524
U	490-158287-a-1-c - 1	-0.0443	0	ppb	06 Sep 2018 08:57:00	50.0000	14525
U	mb 500-448426/12-a - 1	-0.0044	395	ppb	06 Sep 2018 08:58:36	50.0000	14526
U	CCV - 1	0.9344	9693	ppb	06 Sep 2018 09:00:09	50.0000	14527
U	CCB - 1	-0.0358	84	ppb	06 Sep 2018 09:01:40	50.0000	14528
U	lcs 500-448426/13-a - 1	1.7872	18140	ppb	06 Sep 2018 09:03:45	50.0000	14529
U	lb 500-447977/1-c - 1	-0.0590	-146	ppb	06 Sep 2018 09:05:18	50.0000	14530
U	500-150679-e-1-i - 1	-0.0144	296	ppb	06 Sep 2018 09:07:32	50.0000	14531
U	500-150679-e-2-h - 1	-0.0114	326	ppb	06 Sep 2018 09:09:05	50.0000	14532
U	500-150679-e-3-f - 1	-0.0160	280	ppb	06 Sep 2018 09:10:38	50.0000	14533
U	500-150679-e-4-f - 1	-0.0040	399	ppb	06 Sep 2018 09:12:11	50.0000	14534
U	500-150679-e-5-f - 1	-0.0048	391	ppb	06 Sep 2018 09:13:44	50.0000	14535
U	500-150679-e-6-f - 1	-0.0192	248	ppb	06 Sep 2018 09:15:19	50.0000	14536
U	500-150679-e-7-f - 1	-0.0003	436	ppb	06 Sep 2018 09:16:52	50.0000	14537
U	500-150679-e-8-f - 1	-0.0012	427	ppb	06 Sep 2018 09:18:26	50.0000	14538
U	CCV - 1	0.9585	9932	ppb	06 Sep 2018 09:20:01	50.0000	14539
U	CCB - 1	-0.0162	278	ppb	06 Sep 2018 09:21:34	50.0000	14540
U	500-150679-e-8-g du - 1	-0.0026	413	ppb	06 Sep 2018 09:23:38	50.0000	14541
U	500-150679-e-8-h ms - 1	0.9646	9993	ppb	06 Sep 2018 09:25:12	50.0000	14542
U	500-150679-e-9-f - 1	-0.0322	120	ppb	06 Sep 2018 09:26:46	50.0000	14543
U	500-150679-e-10-f - 1	-0.0155	285	ppb	06 Sep 2018 09:28:48	50.0000	14544
U	500-150679-e-11-f - 1	-0.0009	430	ppb	06 Sep 2018 09:30:22	50.0000	14545
U	500-150679-e-12-f - 1	-0.0075	364	ppb	06 Sep 2018 09:31:56	50.0000	14546
U	500-150679-e-13-f - 1	0.1806	2227	ppb	06 Sep 2018 09:33:31	50.0000	14547
U	500-150679-e-14-f - 1	-0.0320	122	ppb	06 Sep 2018 09:35:04	50.0000	14548
U	500-150679-e-15-f - 1	-0.0234	207	ppb	06 Sep 2018 09:36:45	50.0000	14549
U	500-150679-e-16-f - 1	-0.0123	317	ppb	06 Sep 2018 09:38:20	50.0000	14550
U	CCV - 1	0.9757	10102	ppb	06 Sep 2018 09:39:55	50.0000	14551
U	CCB - 1	-0.0172	268	ppb	06 Sep 2018 09:41:29	50.0000	14552
U	500-150679-e-17-f - 1	-0.0219	222	ppb	06 Sep 2018 09:43:32	50.0000	14553
U	500-150679-e-18-f - 1	-0.0242	199	ppb	06 Sep 2018 09:45:07	50.0000	14554
U	500-150679-e-19-f - 1	-0.0058	381	ppb	06 Sep 2018 09:46:40	50.0000	14555
U	500-150679-e-20-h - 1	-0.0210	231	ppb	06 Sep 2018 09:48:13	50.0000	14556
U	CCV - 1	0.9945	10289	ppb	06 Sep 2018 09:59:51	50.0000	14563
U	CCB - 1	-0.0286	155	ppb	06 Sep 2018 10:01:25	50.0000	14564

Comments:

Extraction Vessel Codes:

T = Teflon
Organics/Metals

ZHE = Zero Headspace
VOA's

HDPE = High Density Polyethylene (Lot #
Metals

05109010

Analyst:

[Signature]

Date:

9/14/18

TCLP Extraction Logbook

Page Number:

Rotator RPM: 30 ± 2 RPMs ID#: CA393 Extr. Start Date 9/14/18 Time 12:16 Temp: Uncorrected 22 Corrected 22 °C Filtration Start Time:

Group Number: 1498 Extr. End Date 9/18 Time 06:00 Temp: Uncorrected _____ Corrected _____ °C Filtration End Time:

LIMS Batch No.: 448263 Min. Temp: Uncorrected/Corrected _____ / _____ °C Max. Temp: Uncorrected/Corrected _____ / _____ °C Filter Paper Lot #:

Sample Size Specifications: _____ < 9.5 mm Control Limits: 10 ± 5 PSI; 23 ± 2 °C

Thermometer ID: LC042

Sample Type (Circle): TCLV SPLP TCLP ASTM

Sample Number	<u>LB3</u>	<u>300-150867-5</u>	
Sample Description	<u>Extraction Fluid #13</u>	<u>Solid</u>	
Sample Weight (g)	<u>N/A</u>	<u>100.45</u>	
Liquid-Solid Separation (Yes/No)	<u>NO</u>		
Volume of Mother Liquid (mLs)	<u>N/A</u>		
Solid Extraction Material (g)	<u>N/A</u>	<u>100.45</u>	
Extraction Fluid Selection			
pH of Initial Solution: If <5.0, use Extraction Fluid #1	<u>N/A</u>		
pH of Acid/Heat Treated Solution: If <5.0, use Extraction Fluid #1 If >5.0, use Extraction Fluid #2	<u>N/A</u>		
Extraction Fluid Type (1 or 2)	<u>DI water</u>		<u>GRA</u>
Extraction Vessel Type / Pressure Check	<u>HDPE</u>		<u>9/14/18</u>
Extraction Fluid Volume (mLs)	<u>2000</u>		
Extract Filtered (Yes or No)	<u>Yes</u>		
Mother Liquid Added (mLs)	<u>N/A</u>		
Combined Filtrate Volume (mLs)	<u>25</u>	<u>1000</u>	
Final pH Reading	<u>7.79</u>	<u>8.08</u>	
Spike Source ID # / Volume Added (mLs)	<u>H2SO4</u>		
Filtrate Preserved	<u>Yes</u>		
ZHE: Initial psi / Final psi	<u>N/A</u>		

Comments:

Extraction Vessel Codes:

T = Teflon
Organics/Metals

ZHE = Zero Headspace
VOA's

HDPE = High Density Polyethylene (Lot #
Metals

05109010

Analyst:

[Signature]

Date:

9/14/18

Reviewer:

Date:

9/15/18

CHI-22-15-003/P-12/15

TestAmerica Chicago

2417 Bond Street
 University Park, IL 60484
 Phone (708) 534-5200 Fax (708) 534-5211

Chain of Custody Record

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Knapp, Jim D	Lab PM: Knapp, Jim D	Carrier Tracking No(s):	COC No: 500-65114-31136.1
Client Contact: Mr. Daniel Dunn	Phone:	E-Mail: jim.knapp@testamericainc.com		Page: Page 1 of 1

Company: EnviroAnalytics Group LLC	Analysis Requested			Job #: 500-150867
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Address: 1515 Des Peres Rd. Suite 300	Due Date Requested:	Field Filtered Sample (Yes or No) Perform MS/MSB (Yes or No) 2540D - TSS 625 - PAHs 608_PCB - LL PCB's 4500_P_E - Phosphorus 1864B - Oil & Grease 200.7 - As,Pb,Zn 6010B, 7471B, 8082A, 8270D 6020A, 7470A, 8082A, 8270D	Total Number of Containers	Preservation Codes: A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Z - other (specify)
City: Saint Louis	TAT Requested (days): 2 days			Other:
State, Zip: MO, 63131	PO #: Purchase Order not required			
Phone: 314-835-2814(Tel) 500-150867 COC	WO #:			
Email: ddunn@enviroanalyticsgroup.com	Project #: 50014801			
Project Name: Rock River Sediment Removal, Janesville	SSOW#:			

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSB (Yes or No)	Analysis Requested										Total Number of Containers	Special Instructions/Note:
							2540D - TSS	625 - PAHs	608_PCB - LL PCB's	4500_P_E - Phosphorus	1864B - Oil & Grease	200.7 - As,Pb,Zn	6010B, 7471B, 8082A, 8270D	6020A, 7470A, 8082A, 8270D				
1 R1	8/31/18	15:15		Water			X	X		X	X	X						7
2 G1-01	8/31/18	15:25		Water			X	X		X	X	X						7
3 G2-01	8/31/18	15:35		Water			X	X		X	X	X						7
4 Total Solids	8/31/18	15:50	C	Water Solid									X					1
5 Leachate Solids	8/31/18	15:55	C	Water Solid										X				1
				Water														
				Water														
				Water														
				Water														
				Water														
				Solid														

Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months
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Deliverable Requested: I, II, III, IV, Other (specify)	Special Instructions/QC Requirements:
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Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
Relinquished by: Riley Underwood	Date/Time: 8/31/18	Company:	Received by: Jim Sewell
Relinquished by: Andy N.	Date/Time:	Company:	Received by: D. Douglas 1025
Relinquished by:	Date/Time:	Company:	Received by:

15.1

Do Not Lift Using This Tag

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ORIGIN ID: PHDA (636) 577-5056
RILEY UNDERWOOD
ENVIRONMENTAL ANALYTICS GROUP LLC
1000 GENERAL MOTORS DR
JANESVILLE, WI 535462631
UNITED STATES US

SHIP DATE: 23AUG18
ACTWGT: 10.00 LB MAN
CAD: 0562071/CAFE3210

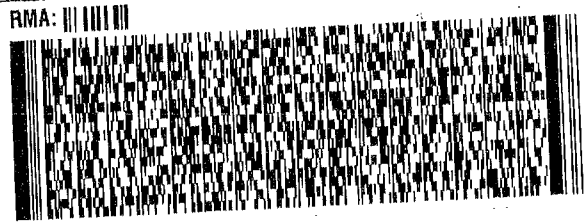
TO **SAMPLE RECEIVING**
TESTAMERICA CHICAGO
2417 BOND STREET

RT **716**
ST **13**

5 **A**
12:00 9051
09.01

UNIVERSITY PARK IL 60

(708) 634-5200 REF: DEPT:



FedEx
Express



500-150867 Waybill

FedEx

TRK# **4434 0829 9051**
0221

SATURDAY 12:00P
PRIORITY OVERNIGHT

XO JOTA

60484
IL-US **ORD**



Login Sample Receipt Checklist

Client: EnviroAnalytics Group LLC

Job Number: 500-150867-2

Login Number: 150867
List Number: 1
Creator: Sanchez, Ariel M

List Source: TestAmerica Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is \leq 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.	False	15.1
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 (excluding tests with immediate HTs)	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 $<6\text{mm}$ (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	