

ANALYTICAL REPORT

Job Number: 460-112518-1

Job Description: DEC Elmont546; Site: E130150

For:

New York State D.E.C.
625 Broadway 9th Floor
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Attention: Mr. Brian Jankauskas

Melissa Haas

Approved for release.
Melissa Haas
Project Manager I
5/26/2016 9:10 AM

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05/26/2016
Revision: 1

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Job Number: 460-112518-1

Job Description: DEC Elmont546; Site: E130150

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A handwritten signature in black ink that reads "Melissa Haas". The signature is written in a cursive, flowing style. Below the signature is a solid horizontal line.

Approved for release.
Melissa Haas
Project Manager I
5/26/2016 9:10 AM

Melissa Haas

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CASE NARRATIVE

Client: New York State D.E.C.

Project: DEC Elmont546; Site: E130150

**Report Number: 460-112518-1
Revised Report #1**

This case narrative is in the form of an exception report, where only the anomalies related to this report, method specific performance and/or QA/QC issues are discussed. If there are no issues to report, this narrative will include a statement that documents that there are no relevant data issues.

It should be noted that samples with elevated Reporting Limits (RLs) as a result of a dilution may not be able to satisfy customer reporting limits in some cases. Such increases in the RLs are unavoidable but acceptable consequence of sample dilution that enables quantification of target analytes or interferences which exceed the calibration range of the instrument.

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

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

REVISION #1

The following report required a revision: 460-112518-1. Details are as follows: The client requested that ICVs be reported for SVOC analysis.

RECEIPT

The sample was received on 4/18/2016 5:40 PM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.0° C.

Note: All samples which require thermal preservation are considered acceptable if the arrival temperature is within 2C of the required temperature or method specified range. For samples with a specified temperature of 4C, samples with a temperature ranging from just above freezing temperature of water to 6C shall be acceptable. Samples that are hand delivered immediately following collection may not meet these criteria, however they will be deemed acceptable according to NELAC standards, if there is evidence that the chilling process has begun, such as arrival on ice, etc.

SEMIVOLATILE ORGANIC COMPOUNDS

Sample A3 (460-112518-1) was analyzed for Semivolatile organic compounds in accordance with EPA SW-846 Method 8270D. The samples were prepared on 04/26/2016 and analyzed on 04/27/2016.

The continuing calibration verification (CCV) analyzed in 460-364897 was outside the method criteria for the following analyte(s): Indeno[1,2,3-cd]pyrene. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

The continuing calibration verification (CCV) analyzed in 460-365067 was outside the method criteria for the following analyte(s): Indeno[1,2,3-cd]pyrene. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Several analytes failed the recovery criteria low for the MS/MSD of sample 460-112310-6 in batch 460-364897. Benzo[g,h,i]perylene, Dibenz(a,h)anthracene, Hexachlorocyclopentadiene and Indeno[1,2,3-cd]pyrene exceeded the RPD limit.

The presence of the '4' qualifier in the data indicates analytes where the concentration in the unspiked sample exceeded four times the spiking amount.

Method(s) 8270D: The initial calibration verification (ICV) result for batch 460-361914 was outside limits for Caprolactam. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Refer to the QC report for details.

No other difficulties were encountered during the semivolatiles analysis.

All other quality control parameters were within the acceptance limits.

METALS

Sample A3 (460-112518-1) was analyzed for Metals in accordance with EPA SW-846 Methods 6010C. The samples were prepared on

04/22/2016 and analyzed on 04/22/2016 and 04/23/2016.

Antimony, Iron, Manganese and Aluminum failed the recovery criteria low for the MS of sample 460-112480-1 in batch 460-364279.

Aluminum and Lead exceeded the RPD limit for the duplicate of sample 460-112480-1.

Refer to the QC report for details.

Sample A3 (460-112518-1)[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the Metals analysis.

All other quality control parameters were within the acceptance limits.

PERCENT SOLIDS/PERCENT MOISTURE

Sample A3 (460-112518-1) was analyzed for percent solids/percent moisture in accordance with EPA Method CLPISM01.2 (Exhibit D) Modified. The samples were analyzed on 04/21/2016.

No difficulties were encountered during the %solids/moisture analysis.

All quality control parameters were within the acceptance limits.

Sample Summary

Client: New York State D.E.C.
Project/Site: DEC Elmont546; Site: E130150

TestAmerica Job ID: 460-112518-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
460-112518-1	A3	Solid	04/18/16 09:40	04/18/16 17:40

Detection Summary

Client: New York State D.E.C.
Project/Site: DEC Elmont546; Site: E130150

TestAmerica Job ID: 460-112518-1

Client Sample ID: A3

Lab Sample ID: 460-112518-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
2-Methylnaphthalene	22	J	350	7.7	ug/Kg	1	☼	8270D	Total/NA	
Acenaphthene	62	J	350	8.5	ug/Kg	1	☼	8270D	Total/NA	
Acenaphthylene	41	J	350	9.0	ug/Kg	1	☼	8270D	Total/NA	
Anthracene	250	J	350	33	ug/Kg	1	☼	8270D	Total/NA	
Benzo[a]anthracene	740		35	29	ug/Kg	1	☼	8270D	Total/NA	
Benzo[a]pyrene	710		35	11	ug/Kg	1	☼	8270D	Total/NA	
Benzo[b]fluoranthene	920		35	14	ug/Kg	1	☼	8270D	Total/NA	
Benzo[g,h,i]perylene	530		350	20	ug/Kg	1	☼	8270D	Total/NA	
Benzo[k]fluoranthene	370		35	15	ug/Kg	1	☼	8270D	Total/NA	
Carbazole	88	J	350	8.7	ug/Kg	1	☼	8270D	Total/NA	
Chrysene	760		350	9.5	ug/Kg	1	☼	8270D	Total/NA	
Dibenz(a,h)anthracene	130		35	18	ug/Kg	1	☼	8270D	Total/NA	
Dibenzofuran	72	J	350	11	ug/Kg	1	☼	8270D	Total/NA	
Fluoranthene	1700		350	10	ug/Kg	1	☼	8270D	Total/NA	
Fluorene	130	J	350	7.6	ug/Kg	1	☼	8270D	Total/NA	
Indeno[1,2,3-cd]pyrene	640		35	23	ug/Kg	1	☼	8270D	Total/NA	
Naphthalene	29	J	350	8.9	ug/Kg	1	☼	8270D	Total/NA	
Phenanthrene	1300		350	9.3	ug/Kg	1	☼	8270D	Total/NA	
Pyrene	1500		350	16	ug/Kg	1	☼	8270D	Total/NA	
Aluminum	5010		38.2	19.7	mg/Kg	4	☼	6010C	Total/NA	
Arsenic	4.0		2.9	0.94	mg/Kg	4	☼	6010C	Total/NA	
Barium	57.6		38.2	1.4	mg/Kg	4	☼	6010C	Total/NA	
Beryllium	0.33	J	0.38	0.32	mg/Kg	4	☼	6010C	Total/NA	
Calcium	967		955	56.5	mg/Kg	4	☼	6010C	Total/NA	
Chromium	8.3		1.9	0.92	mg/Kg	4	☼	6010C	Total/NA	
Cobalt	3.8	J	9.5	1.1	mg/Kg	4	☼	6010C	Total/NA	
Copper	137		4.8	1.2	mg/Kg	4	☼	6010C	Total/NA	
Iron	9930		28.6	21.6	mg/Kg	4	☼	6010C	Total/NA	
Lead	523		1.9	0.75	mg/Kg	4	☼	6010C	Total/NA	
Magnesium	739	J	955	47.6	mg/Kg	4	☼	6010C	Total/NA	
Manganese	320		2.9	1.0	mg/Kg	4	☼	6010C	Total/NA	
Nickel	12.3		7.6	1.4	mg/Kg	4	☼	6010C	Total/NA	
Potassium	212	J	955	28.9	mg/Kg	4	☼	6010C	Total/NA	
Vanadium	11.5		9.5	0.95	mg/Kg	4	☼	6010C	Total/NA	
Zinc	203		5.7	1.4	mg/Kg	4	☼	6010C	Total/NA	

This Detection Summary does not include radiochemical test results.

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Method Summary

Client: New York State D.E.C.
Project/Site: DEC Elmont546; Site: E130150

TestAmerica Job ID: 460-112518-1

Method	Method Description	Protocol	Laboratory
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL EDI
6010C	Metals (ICP)	SW846	TAL EDI
Moisture	Percent Moisture	EPA	TAL EDI

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

TAL EDI = TestAmerica Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Client Sample Results

Client: New York State D.E.C.
Project/Site: DEC Elmont546; Site: E130150

TestAmerica Job ID: 460-112518-1

Client Sample ID: A3

Date Collected: 04/18/16 09:40

Date Received: 04/18/16 17:40

Lab Sample ID: 460-112518-1

Matrix: Solid

Percent Solids: 94.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	350	U	350	30	ug/Kg	☼	04/26/16 13:16	04/27/16 22:35	1
1,2,4,5-Tetrachlorobenzene	350	U	350	26	ug/Kg	☼	04/26/16 13:16	04/27/16 22:35	1
2,2'-oxybis[1-chloropropane]	350	U	350	14	ug/Kg	☼	04/26/16 13:16	04/27/16 22:35	1
2,3,4,6-Tetrachlorophenol	350	U	350	33	ug/Kg	☼	04/26/16 13:16	04/27/16 22:35	1
2,4,5-Trichlorophenol	350	U	350	35	ug/Kg	☼	04/26/16 13:16	04/27/16 22:35	1
2,4,6-Trichlorophenol	140	U	140	9.9	ug/Kg	☼	04/26/16 13:16	04/27/16 22:35	1
2,4-Dichlorophenol	140	U	140	8.3	ug/Kg	☼	04/26/16 13:16	04/27/16 22:35	1
2,4-Dimethylphenol	350	U	350	77	ug/Kg	☼	04/26/16 13:16	04/27/16 22:35	1
2,4-Dinitrophenol	280	U	280	260	ug/Kg	☼	04/26/16 13:16	04/27/16 22:35	1
2,4-Dinitrotoluene	71	U	71	14	ug/Kg	☼	04/26/16 13:16	04/27/16 22:35	1
2,6-Dinitrotoluene	71	U	71	19	ug/Kg	☼	04/26/16 13:16	04/27/16 22:35	1
2-Chloronaphthalene	350	U	350	7.9	ug/Kg	☼	04/26/16 13:16	04/27/16 22:35	1
2-Chlorophenol	350	U	350	8.9	ug/Kg	☼	04/26/16 13:16	04/27/16 22:35	1
2-Methylnaphthalene	22	J	350	7.7	ug/Kg	☼	04/26/16 13:16	04/27/16 22:35	1
2-Methylphenol	350	U	350	15	ug/Kg	☼	04/26/16 13:16	04/27/16 22:35	1
2-Nitroaniline	350	U	350	12	ug/Kg	☼	04/26/16 13:16	04/27/16 22:35	1
2-Nitrophenol	350	U	350	12	ug/Kg	☼	04/26/16 13:16	04/27/16 22:35	1
3,3'-Dichlorobenzidine	140	U	140	39	ug/Kg	☼	04/26/16 13:16	04/27/16 22:35	1
3-Nitroaniline	350	U	350	10	ug/Kg	☼	04/26/16 13:16	04/27/16 22:35	1
4,6-Dinitro-2-methylphenol	280	U	280	93	ug/Kg	☼	04/26/16 13:16	04/27/16 22:35	1
4-Bromophenyl phenyl ether	350	U	350	11	ug/Kg	☼	04/26/16 13:16	04/27/16 22:35	1
4-Chloro-3-methylphenol	350	U	350	15	ug/Kg	☼	04/26/16 13:16	04/27/16 22:35	1
4-Chloroaniline	350	U	350	9.0	ug/Kg	☼	04/26/16 13:16	04/27/16 22:35	1
4-Chlorophenyl phenyl ether	350	U	350	10	ug/Kg	☼	04/26/16 13:16	04/27/16 22:35	1
4-Methylphenol	350	U	350	9.5	ug/Kg	☼	04/26/16 13:16	04/27/16 22:35	1
4-Nitroaniline	350	U	350	13	ug/Kg	☼	04/26/16 13:16	04/27/16 22:35	1
4-Nitrophenol	710	U	710	170	ug/Kg	☼	04/26/16 13:16	04/27/16 22:35	1
Acenaphthene	62	J	350	8.5	ug/Kg	☼	04/26/16 13:16	04/27/16 22:35	1
Acenaphthylene	41	J	350	9.0	ug/Kg	☼	04/26/16 13:16	04/27/16 22:35	1
Acetophenone	350	U	350	7.6	ug/Kg	☼	04/26/16 13:16	04/27/16 22:35	1
Anthracene	250	J	350	33	ug/Kg	☼	04/26/16 13:16	04/27/16 22:35	1
Atrazine	140	U	140	16	ug/Kg	☼	04/26/16 13:16	04/27/16 22:35	1
Benzaldehyde	350	U	350	27	ug/Kg	☼	04/26/16 13:16	04/27/16 22:35	1
Benzo[a]anthracene	740		35	29	ug/Kg	☼	04/26/16 13:16	04/27/16 22:35	1
Benzo[a]pyrene	710		35	11	ug/Kg	☼	04/26/16 13:16	04/27/16 22:35	1
Benzo[b]fluoranthene	920		35	14	ug/Kg	☼	04/26/16 13:16	04/27/16 22:35	1
Benzo[g,h,i]perylene	530		350	20	ug/Kg	☼	04/26/16 13:16	04/27/16 22:35	1
Benzo[k]fluoranthene	370		35	15	ug/Kg	☼	04/26/16 13:16	04/27/16 22:35	1
Bis(2-chloroethoxy)methane	350	U	350	11	ug/Kg	☼	04/26/16 13:16	04/27/16 22:35	1
Bis(2-chloroethyl)ether	35	U	35	8.3	ug/Kg	☼	04/26/16 13:16	04/27/16 22:35	1
Bis(2-ethylhexyl) phthalate	350	U	350	14	ug/Kg	☼	04/26/16 13:16	04/27/16 22:35	1
Butyl benzyl phthalate	350	U	350	11	ug/Kg	☼	04/26/16 13:16	04/27/16 22:35	1
Caprolactam	350	U	350	25	ug/Kg	☼	04/26/16 13:16	04/27/16 22:35	1
Carbazole	88	J	350	8.7	ug/Kg	☼	04/26/16 13:16	04/27/16 22:35	1
Chrysene	760		350	9.5	ug/Kg	☼	04/26/16 13:16	04/27/16 22:35	1
Dibenz(a,h)anthracene	130		35	18	ug/Kg	☼	04/26/16 13:16	04/27/16 22:35	1
Dibenzofuran	72	J	350	11	ug/Kg	☼	04/26/16 13:16	04/27/16 22:35	1
Diethyl phthalate	350	U	350	9.9	ug/Kg	☼	04/26/16 13:16	04/27/16 22:35	1
Dimethyl phthalate	350	U	350	10	ug/Kg	☼	04/26/16 13:16	04/27/16 22:35	1

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Client Sample Results

Client: New York State D.E.C.
Project/Site: DEC Elmont546; Site: E130150

TestAmerica Job ID: 460-112518-1

Client Sample ID: A3

Date Collected: 04/18/16 09:40

Date Received: 04/18/16 17:40

Lab Sample ID: 460-112518-1

Matrix: Solid

Percent Solids: 94.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-butyl phthalate	350	U	350	10	ug/Kg	☼	04/26/16 13:16	04/27/16 22:35	1
Di-n-octyl phthalate	350	U	350	18	ug/Kg	☼	04/26/16 13:16	04/27/16 22:35	1
Fluoranthene	1700		350	10	ug/Kg	☼	04/26/16 13:16	04/27/16 22:35	1
Fluorene	130	J	350	7.6	ug/Kg	☼	04/26/16 13:16	04/27/16 22:35	1
Hexachlorobenzene	35	U	35	14	ug/Kg	☼	04/26/16 13:16	04/27/16 22:35	1
Hexachlorobutadiene	71	U	71	9.8	ug/Kg	☼	04/26/16 13:16	04/27/16 22:35	1
Hexachlorocyclopentadiene	350	U	350	22	ug/Kg	☼	04/26/16 13:16	04/27/16 22:35	1
Hexachloroethane	35	U	35	13	ug/Kg	☼	04/26/16 13:16	04/27/16 22:35	1
Indeno[1,2,3-cd]pyrene	640		35	23	ug/Kg	☼	04/26/16 13:16	04/27/16 22:35	1
Isophorone	140	U	140	7.5	ug/Kg	☼	04/26/16 13:16	04/27/16 22:35	1
Naphthalene	29	J	350	8.9	ug/Kg	☼	04/26/16 13:16	04/27/16 22:35	1
Nitrobenzene	35	U	35	11	ug/Kg	☼	04/26/16 13:16	04/27/16 22:35	1
N-Nitrosodi-n-propylamine	35	U	35	12	ug/Kg	☼	04/26/16 13:16	04/27/16 22:35	1
N-Nitrosodiphenylamine	350	U	350	32	ug/Kg	☼	04/26/16 13:16	04/27/16 22:35	1
Pentachlorophenol	280	U	280	42	ug/Kg	☼	04/26/16 13:16	04/27/16 22:35	1
Phenanthrene	1300		350	9.3	ug/Kg	☼	04/26/16 13:16	04/27/16 22:35	1
Phenol	350	U	350	11	ug/Kg	☼	04/26/16 13:16	04/27/16 22:35	1
Pyrene	1500		350	16	ug/Kg	☼	04/26/16 13:16	04/27/16 22:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	57		10 - 95	04/26/16 13:16	04/27/16 22:35	1
2-Fluorobiphenyl	65		27 - 84	04/26/16 13:16	04/27/16 22:35	1
2-Fluorophenol (Surr)	53		21 - 84	04/26/16 13:16	04/27/16 22:35	1
Nitrobenzene-d5 (Surr)	58		28 - 92	04/26/16 13:16	04/27/16 22:35	1
Phenol-d5 (Surr)	53		22 - 88	04/26/16 13:16	04/27/16 22:35	1
Terphenyl-d14 (Surr)	75		16 - 114	04/26/16 13:16	04/27/16 22:35	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	5010		38.2	19.7	mg/Kg	☼	04/22/16 07:41	04/23/16 12:35	4
Antimony	3.8	U	3.8	1.5	mg/Kg	☼	04/22/16 07:41	04/22/16 17:07	4
Arsenic	4.0		2.9	0.94	mg/Kg	☼	04/22/16 07:41	04/22/16 17:07	4
Barium	57.6		38.2	1.4	mg/Kg	☼	04/22/16 07:41	04/22/16 17:07	4
Beryllium	0.33	J	0.38	0.32	mg/Kg	☼	04/22/16 07:41	04/22/16 17:07	4
Cadmium	0.76	U	0.76	0.40	mg/Kg	☼	04/22/16 07:41	04/22/16 17:07	4
Calcium	967		955	56.5	mg/Kg	☼	04/22/16 07:41	04/22/16 17:07	4
Chromium	8.3		1.9	0.92	mg/Kg	☼	04/22/16 07:41	04/22/16 17:07	4
Cobalt	3.8	J	9.5	1.1	mg/Kg	☼	04/22/16 07:41	04/22/16 17:07	4
Copper	137		4.8	1.2	mg/Kg	☼	04/22/16 07:41	04/22/16 17:07	4
Iron	9930		28.6	21.6	mg/Kg	☼	04/22/16 07:41	04/22/16 17:07	4
Lead	523		1.9	0.75	mg/Kg	☼	04/22/16 07:41	04/22/16 17:07	4
Magnesium	739	J	955	47.6	mg/Kg	☼	04/22/16 07:41	04/22/16 17:07	4
Manganese	320		2.9	1.0	mg/Kg	☼	04/22/16 07:41	04/22/16 17:07	4
Nickel	12.3		7.6	1.4	mg/Kg	☼	04/22/16 07:41	04/22/16 17:07	4
Potassium	212	J	955	28.9	mg/Kg	☼	04/22/16 07:41	04/22/16 17:07	4
Selenium	3.8	U	3.8	1.3	mg/Kg	☼	04/22/16 07:41	04/22/16 17:07	4
Silver	1.9	U	1.9	0.34	mg/Kg	☼	04/22/16 07:41	04/22/16 17:07	4
Sodium	955	U	955	64.6	mg/Kg	☼	04/22/16 07:41	04/22/16 17:07	4
Thallium	3.8	U	3.8	1.7	mg/Kg	☼	04/22/16 07:41	04/22/16 17:07	4
Vanadium	11.5		9.5	0.95	mg/Kg	☼	04/22/16 07:41	04/22/16 17:07	4

TestAmerica Edison

Client Sample Results

Client: New York State D.E.C.
Project/Site: DEC Elmont546; Site: E130150

TestAmerica Job ID: 460-112518-1

Client Sample ID: A3

Date Collected: 04/18/16 09:40

Date Received: 04/18/16 17:40

Lab Sample ID: 460-112518-1

Matrix: Solid

Percent Solids: 94.4

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	203		5.7	1.4	mg/Kg	☼	04/22/16 07:41	04/22/16 17:07	4

Surrogate Summary

Client: New York State D.E.C.
Project/Site: DEC Elmont546; Site: E130150

TestAmerica Job ID: 460-112518-1

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (10-95)	FBP (27-84)	2FP (21-84)	NBZ (28-92)	PHL (22-88)	TPH (16-114)
460-112310-A-6-A MS	Matrix Spike	61	63	49	57	48	56
460-112310-A-6-B MSD	Matrix Spike Duplicate	53	53	40	49	39	43
460-112518-1	A3	57	65	53	58	53	75
LCS 460-364798/2-A	Lab Control Sample	87	67	63	65	61	74
LCS 460-364798/3-A	Lab Control Sample	87	70	68	72	70	81
MB 460-364798/1-A	Method Blank	93	70	70	72	73	84

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)

FBP = 2-Fluorobiphenyl

2FP = 2-Fluorophenol (Surr)

NBZ = Nitrobenzene-d5 (Surr)

PHL = Phenol-d5 (Surr)

TPH = Terphenyl-d14 (Surr)

QC Sample Results

Client: New York State D.E.C.
Project/Site: DEC Elmont546; Site: E130150

TestAmerica Job ID: 460-112518-1

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

Lab Sample ID: MB 460-364798/1-A

Matrix: Solid

Analysis Batch: 364897

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 364798

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	330	U	330	28	ug/Kg		04/26/16 13:16	04/27/16 05:36	1
1,2,4,5-Tetrachlorobenzene	330	U	330	25	ug/Kg		04/26/16 13:16	04/27/16 05:36	1
2,2'-oxybis[1-chloropropane]	330	U	330	14	ug/Kg		04/26/16 13:16	04/27/16 05:36	1
2,3,4,6-Tetrachlorophenol	330	U	330	31	ug/Kg		04/26/16 13:16	04/27/16 05:36	1
2,4,5-Trichlorophenol	330	U	330	33	ug/Kg		04/26/16 13:16	04/27/16 05:36	1
2,4,6-Trichlorophenol	130	U	130	9.4	ug/Kg		04/26/16 13:16	04/27/16 05:36	1
2,4-Dichlorophenol	130	U	130	7.8	ug/Kg		04/26/16 13:16	04/27/16 05:36	1
2,4-Dimethylphenol	330	U	330	73	ug/Kg		04/26/16 13:16	04/27/16 05:36	1
2,4-Dinitrophenol	270	U	270	250	ug/Kg		04/26/16 13:16	04/27/16 05:36	1
2,4-Dinitrotoluene	67	U	67	13	ug/Kg		04/26/16 13:16	04/27/16 05:36	1
2,6-Dinitrotoluene	67	U	67	18	ug/Kg		04/26/16 13:16	04/27/16 05:36	1
2-Chloronaphthalene	330	U	330	7.5	ug/Kg		04/26/16 13:16	04/27/16 05:36	1
2-Chlorophenol	330	U	330	8.4	ug/Kg		04/26/16 13:16	04/27/16 05:36	1
2-Methylnaphthalene	330	U	330	7.3	ug/Kg		04/26/16 13:16	04/27/16 05:36	1
2-Methylphenol	330	U	330	14	ug/Kg		04/26/16 13:16	04/27/16 05:36	1
2-Nitroaniline	330	U	330	11	ug/Kg		04/26/16 13:16	04/27/16 05:36	1
2-Nitrophenol	330	U	330	11	ug/Kg		04/26/16 13:16	04/27/16 05:36	1
3,3'-Dichlorobenzidine	130	U	130	37	ug/Kg		04/26/16 13:16	04/27/16 05:36	1
3-Nitroaniline	330	U	330	9.8	ug/Kg		04/26/16 13:16	04/27/16 05:36	1
4,6-Dinitro-2-methylphenol	270	U	270	88	ug/Kg		04/26/16 13:16	04/27/16 05:36	1
4-Bromophenyl phenyl ether	330	U	330	10	ug/Kg		04/26/16 13:16	04/27/16 05:36	1
4-Chloro-3-methylphenol	330	U	330	14	ug/Kg		04/26/16 13:16	04/27/16 05:36	1
4-Chloroaniline	330	U	330	8.5	ug/Kg		04/26/16 13:16	04/27/16 05:36	1
4-Chlorophenyl phenyl ether	330	U	330	9.9	ug/Kg		04/26/16 13:16	04/27/16 05:36	1
4-Methylphenol	330	U	330	9.0	ug/Kg		04/26/16 13:16	04/27/16 05:36	1
4-Nitroaniline	330	U	330	13	ug/Kg		04/26/16 13:16	04/27/16 05:36	1
4-Nitrophenol	670	U	670	160	ug/Kg		04/26/16 13:16	04/27/16 05:36	1
Acenaphthene	330	U	330	8.0	ug/Kg		04/26/16 13:16	04/27/16 05:36	1
Acenaphthylene	330	U	330	8.5	ug/Kg		04/26/16 13:16	04/27/16 05:36	1
Acetophenone	330	U	330	7.2	ug/Kg		04/26/16 13:16	04/27/16 05:36	1
Anthracene	330	U	330	31	ug/Kg		04/26/16 13:16	04/27/16 05:36	1
Atrazine	130	U	130	15	ug/Kg		04/26/16 13:16	04/27/16 05:36	1
Benzaldehyde	330	U	330	25	ug/Kg		04/26/16 13:16	04/27/16 05:36	1
Benzo[a]anthracene	33	U	33	28	ug/Kg		04/26/16 13:16	04/27/16 05:36	1
Benzo[a]pyrene	33	U	33	10	ug/Kg		04/26/16 13:16	04/27/16 05:36	1
Benzo[b]fluoranthene	33	U	33	13	ug/Kg		04/26/16 13:16	04/27/16 05:36	1
Benzo[g,h,i]perylene	330	U	330	19	ug/Kg		04/26/16 13:16	04/27/16 05:36	1
Benzo[k]fluoranthene	33	U	33	14	ug/Kg		04/26/16 13:16	04/27/16 05:36	1
Bis(2-chloroethoxy)methane	330	U	330	10	ug/Kg		04/26/16 13:16	04/27/16 05:36	1
Bis(2-chloroethyl)ether	33	U	33	7.8	ug/Kg		04/26/16 13:16	04/27/16 05:36	1
Bis(2-ethylhexyl) phthalate	330	U	330	13	ug/Kg		04/26/16 13:16	04/27/16 05:36	1
Butyl benzyl phthalate	330	U	330	10	ug/Kg		04/26/16 13:16	04/27/16 05:36	1
Caprolactam	330	U	330	24	ug/Kg		04/26/16 13:16	04/27/16 05:36	1
Carbazole	330	U	330	8.2	ug/Kg		04/26/16 13:16	04/27/16 05:36	1
Chrysene	330	U	330	9.0	ug/Kg		04/26/16 13:16	04/27/16 05:36	1
Dibenz(a,h)anthracene	33	U	33	17	ug/Kg		04/26/16 13:16	04/27/16 05:36	1
Dibenzofuran	330	U	330	10	ug/Kg		04/26/16 13:16	04/27/16 05:36	1
Diethyl phthalate	330	U	330	9.4	ug/Kg		04/26/16 13:16	04/27/16 05:36	1

TestAmerica Edison

QC Sample Results

Client: New York State D.E.C.
Project/Site: DEC Elmont546; Site: E130150

TestAmerica Job ID: 460-112518-1

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

Lab Sample ID: MB 460-364798/1-A

Matrix: Solid

Analysis Batch: 364897

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 364798

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dimethyl phthalate	330	U	330	9.6	ug/Kg		04/26/16 13:16	04/27/16 05:36	1
Di-n-butyl phthalate	330	U	330	9.9	ug/Kg		04/26/16 13:16	04/27/16 05:36	1
Di-n-octyl phthalate	330	U	330	17	ug/Kg		04/26/16 13:16	04/27/16 05:36	1
Fluoranthene	330	U	330	9.8	ug/Kg		04/26/16 13:16	04/27/16 05:36	1
Fluorene	330	U	330	7.2	ug/Kg		04/26/16 13:16	04/27/16 05:36	1
Hexachlorobenzene	33	U	33	13	ug/Kg		04/26/16 13:16	04/27/16 05:36	1
Hexachlorobutadiene	67	U	67	9.3	ug/Kg		04/26/16 13:16	04/27/16 05:36	1
Hexachlorocyclopentadiene	330	U	330	21	ug/Kg		04/26/16 13:16	04/27/16 05:36	1
Hexachloroethane	33	U	33	12	ug/Kg		04/26/16 13:16	04/27/16 05:36	1
Indeno[1,2,3-cd]pyrene	33	U	33	22	ug/Kg		04/26/16 13:16	04/27/16 05:36	1
Isophorone	130	U	130	7.1	ug/Kg		04/26/16 13:16	04/27/16 05:36	1
Naphthalene	330	U	330	8.4	ug/Kg		04/26/16 13:16	04/27/16 05:36	1
Nitrobenzene	33	U	33	10	ug/Kg		04/26/16 13:16	04/27/16 05:36	1
N-Nitrosodi-n-propylamine	33	U	33	11	ug/Kg		04/26/16 13:16	04/27/16 05:36	1
N-Nitrosodiphenylamine	330	U	330	30	ug/Kg		04/26/16 13:16	04/27/16 05:36	1
Pentachlorophenol	270	U	270	40	ug/Kg		04/26/16 13:16	04/27/16 05:36	1
Phenanthrene	330	U	330	8.8	ug/Kg		04/26/16 13:16	04/27/16 05:36	1
Phenol	330	U	330	11	ug/Kg		04/26/16 13:16	04/27/16 05:36	1
Pyrene	330	U	330	15	ug/Kg		04/26/16 13:16	04/27/16 05:36	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	93		10 - 95	04/26/16 13:16	04/27/16 05:36	1
2-Fluorobiphenyl	70		27 - 84	04/26/16 13:16	04/27/16 05:36	1
2-Fluorophenol (Surr)	70		21 - 84	04/26/16 13:16	04/27/16 05:36	1
Nitrobenzene-d5 (Surr)	72		28 - 92	04/26/16 13:16	04/27/16 05:36	1
Phenol-d5 (Surr)	73		22 - 88	04/26/16 13:16	04/27/16 05:36	1
Terphenyl-d14 (Surr)	84		16 - 114	04/26/16 13:16	04/27/16 05:36	1

Lab Sample ID: LCS 460-364798/2-A

Matrix: Solid

Analysis Batch: 364897

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 364798

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1'-Biphenyl	3330	2360		ug/Kg		71	64 - 103
1,2,4,5-Tetrachlorobenzene	3330	2360		ug/Kg		71	62 - 109
2,2'-oxybis[1-chloropropane]	3330	2220		ug/Kg		66	42 - 119
2,3,4,6-Tetrachlorophenol	3330	2660		ug/Kg		80	57 - 113
2,4,5-Trichlorophenol	3330	2370		ug/Kg		71	59 - 105
2,4,6-Trichlorophenol	3330	2540		ug/Kg		76	61 - 107
2,4-Dichlorophenol	3330	2250		ug/Kg		68	59 - 99
2,4-Dimethylphenol	3330	2230		ug/Kg		67	60 - 98
2,4-Dinitrophenol	6670	5360		ug/Kg		80	26 - 137
2,4-Dinitrotoluene	3330	2660		ug/Kg		80	61 - 118
2,6-Dinitrotoluene	3330	2520		ug/Kg		76	63 - 112
2-Chloronaphthalene	3330	2350		ug/Kg		70	63 - 102
2-Chlorophenol	3330	2270		ug/Kg		68	58 - 95
2-Methylnaphthalene	3330	2280		ug/Kg		68	64 - 102
2-Methylphenol	3330	2290		ug/Kg		69	56 - 99

TestAmerica Edison

QC Sample Results

Client: New York State D.E.C.
Project/Site: DEC Elmont546; Site: E130150

TestAmerica Job ID: 460-112518-1

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

Lab Sample ID: LCS 460-364798/2-A

Matrix: Solid

Analysis Batch: 364897

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 364798

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Nitroaniline	3330	2540		ug/Kg		76	46 - 113
2-Nitrophenol	3330	2350		ug/Kg		70	63 - 103
3,3'-Dichlorobenzidine	3330	1770		ug/Kg		53	18 - 92
3-Nitroaniline	3330	1810		ug/Kg		54	23 - 89
4,6-Dinitro-2-methylphenol	6670	5150		ug/Kg		77	51 - 124
4-Bromophenyl phenyl ether	3330	2590		ug/Kg		78	65 - 114
4-Chloro-3-methylphenol	3330	2440		ug/Kg		73	58 - 108
4-Chloroaniline	3330	1800		ug/Kg		54	10 - 82
4-Chlorophenyl phenyl ether	3330	2580		ug/Kg		78	63 - 107
4-Methylphenol	3330	2430		ug/Kg		73	53 - 103
4-Nitroaniline	3330	2430		ug/Kg		73	44 - 109
4-Nitrophenol	6670	5630		ug/Kg		84	45 - 125
Acenaphthene	3330	2550		ug/Kg		76	59 - 102
Acenaphthylene	3330	2470		ug/Kg		74	63 - 102
Acetophenone	3330	2360		ug/Kg		71	56 - 107
Anthracene	3330	2590		ug/Kg		78	66 - 105
Benzo[a]anthracene	3330	2570		ug/Kg		77	65 - 106
Benzo[a]pyrene	3330	2620		ug/Kg		79	68 - 111
Benzo[b]fluoranthene	3330	2710		ug/Kg		81	67 - 116
Benzo[g,h,i]perylene	3330	2630		ug/Kg		79	49 - 124
Benzo[k]fluoranthene	3330	2400		ug/Kg		72	65 - 114
Bis(2-chloroethoxy)methane	3330	2360		ug/Kg		71	61 - 102
Bis(2-chloroethyl)ether	3330	2180		ug/Kg		65	58 - 102
Bis(2-ethylhexyl) phthalate	3330	2370		ug/Kg		71	60 - 125
Butyl benzyl phthalate	3330	2510		ug/Kg		75	62 - 123
Carbazole	3330	2530		ug/Kg		76	62 - 107
Chrysene	3330	2580		ug/Kg		77	64 - 105
Dibenz(a,h)anthracene	3330	2880		ug/Kg		86	54 - 126
Dibenzofuran	3330	2480		ug/Kg		74	62 - 102
Diethyl phthalate	3330	2610		ug/Kg		78	61 - 110
Dimethyl phthalate	3330	2570		ug/Kg		77	64 - 108
Di-n-butyl phthalate	3330	2580		ug/Kg		78	62 - 114
Di-n-octyl phthalate	3330	2360		ug/Kg		71	52 - 137
Fluoranthene	3330	2600		ug/Kg		78	59 - 109
Fluorene	3330	2560		ug/Kg		77	65 - 108
Hexachlorobenzene	3330	2700		ug/Kg		81	65 - 117
Hexachlorobutadiene	3330	2330		ug/Kg		70	60 - 105
Hexachlorocyclopentadiene	3330	2690		ug/Kg		81	37 - 119
Hexachloroethane	3330	2160		ug/Kg		65	60 - 94
Indeno[1,2,3-cd]pyrene	3330	2990		ug/Kg		90	50 - 134
Isophorone	3330	2450		ug/Kg		73	60 - 102
Naphthalene	3330	2290		ug/Kg		69	64 - 99
Nitrobenzene	3330	2240		ug/Kg		67	59 - 102
N-Nitrosodi-n-propylamine	3330	2440		ug/Kg		73	56 - 112
N-Nitrosodiphenylamine	3330	2510		ug/Kg		75	71 - 119
Pentachlorophenol	6670	5210		ug/Kg		78	47 - 115
Phenanthrene	3330	2490		ug/Kg		75	66 - 105
Phenol	3330	2310		ug/Kg		69	55 - 99

TestAmerica Edison

QC Sample Results

Client: New York State D.E.C.
Project/Site: DEC Elmont546; Site: E130150

TestAmerica Job ID: 460-112518-1

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

Lab Sample ID: LCS 460-364798/2-A

Matrix: Solid

Analysis Batch: 364897

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 364798

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Pyrene	3330	2490		ug/Kg		75	55 - 126
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
2,4,6-Tribromophenol (Surr)	87		10 - 95				
2-Fluorobiphenyl	67		27 - 84				
2-Fluorophenol (Surr)	63		21 - 84				
Nitrobenzene-d5 (Surr)	65		28 - 92				
Phenol-d5 (Surr)	61		22 - 88				
Terphenyl-d14 (Surr)	74		16 - 114				

Lab Sample ID: LCS 460-364798/3-A

Matrix: Solid

Analysis Batch: 364897

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 364798

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Atrazine	6670	5730		ug/Kg		86	41 - 116
Benzaldehyde	6670	4110		ug/Kg		62	55 - 116
Caprolactam	6670	6730		ug/Kg		101	44 - 129
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
2,4,6-Tribromophenol (Surr)	87		10 - 95				
2-Fluorobiphenyl	70		27 - 84				
2-Fluorophenol (Surr)	68		21 - 84				
Nitrobenzene-d5 (Surr)	72		28 - 92				
Phenol-d5 (Surr)	70		22 - 88				
Terphenyl-d14 (Surr)	81		16 - 114				

Lab Sample ID: 460-112310-A-6-A MS

Matrix: Solid

Analysis Batch: 364897

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 364798

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1'-Biphenyl	370	U	3700	2420		ug/Kg	☼	65	64 - 103
1,2,4,5-Tetrachlorobenzene	370	U	3700	2330		ug/Kg	☼	63	62 - 109
2,2'-oxybis[1-chloropropane]	370	U	3700	2010		ug/Kg	☼	54	42 - 119
2,3,4,6-Tetrachlorophenol	370	U	3700	1800	*	ug/Kg	☼	49	57 - 113
2,4,5-Trichlorophenol	370	U	3700	1770	*	ug/Kg	☼	48	59 - 105
2,4,6-Trichlorophenol	150	U	3700	2190	*	ug/Kg	☼	59	61 - 107
2,4-Dichlorophenol	150	U	3700	1880	*	ug/Kg	☼	51	59 - 99
2,4-Dimethylphenol	370	U	3700	2100	*	ug/Kg	☼	57	60 - 98
2,4-Dinitrophenol	300	U	7390	403	*	ug/Kg	☼	5	26 - 137
2,4-Dinitrotoluene	74	U	3700	2710		ug/Kg	☼	73	61 - 118
2,6-Dinitrotoluene	74	U	3700	2580		ug/Kg	☼	70	63 - 112
2-Chloronaphthalene	370	U	3700	2340		ug/Kg	☼	63	63 - 102
2-Chlorophenol	370	U	3700	1920	*	ug/Kg	☼	52	58 - 95
2-Methylnaphthalene	17	J	3700	2080	*	ug/Kg	☼	56	64 - 102
2-Methylphenol	370	U	3700	1940	*	ug/Kg	☼	52	56 - 99
2-Nitroaniline	370	U	3700	2670		ug/Kg	☼	72	46 - 113

TestAmerica Edison

QC Sample Results

Client: New York State D.E.C.
Project/Site: DEC Elmont546; Site: E130150

TestAmerica Job ID: 460-112518-1

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

Lab Sample ID: 460-112310-A-6-A MS

Matrix: Solid

Analysis Batch: 364897

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 364798

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Nitrophenol	370	U	3700	1940	*	ug/Kg	☼	52	63 - 103
3,3'-Dichlorobenzidine	150	U	3700	1600		ug/Kg	☼	43	18 - 92
3-Nitroaniline	370	U	3700	1870		ug/Kg	☼	51	23 - 89
4,6-Dinitro-2-methylphenol	300	U	7390	1090	*	ug/Kg	☼	15	51 - 124
4-Bromophenyl phenyl ether	370	U	3700	2520		ug/Kg	☼	68	65 - 114
4-Chloro-3-methylphenol	370	U	3700	2080	*	ug/Kg	☼	56	58 - 108
4-Chloroaniline	370	U	3700	1180		ug/Kg	☼	32	10 - 82
4-Chlorophenyl phenyl ether	370	U	3700	2480		ug/Kg	☼	67	63 - 107
4-Methylphenol	370	U	3700	2090		ug/Kg	☼	56	53 - 103
4-Nitroaniline	370	U	3700	1670		ug/Kg	☼	45	44 - 109
4-Nitrophenol	740	U	7390	4520		ug/Kg	☼	61	45 - 125
Acenaphthene	370	U	3700	2460		ug/Kg	☼	67	59 - 102
Acenaphthylene	40	J	3700	2420		ug/Kg	☼	64	63 - 102
Acetophenone	370	U	3700	2030	*	ug/Kg	☼	55	56 - 107
Anthracene	54	J	3700	2520		ug/Kg	☼	67	66 - 105
Atrazine	150	U	7390	5850		ug/Kg	☼	79	41 - 116
Benzaldehyde	370	U	7390	3230	*	ug/Kg	☼	44	55 - 116
Benzo[a]anthracene	190		3700	2590		ug/Kg	☼	65	65 - 106
Benzo[a]pyrene	210		3700	2660	*	ug/Kg	☼	66	68 - 111
Benzo[b]fluoranthene	260		3700	2620	*	ug/Kg	☼	64	67 - 116
Benzo[g,h,i]perylene	140	J	3700	2880		ug/Kg	☼	74	49 - 124
Benzo[k]fluoranthene	110		3700	2110	*	ug/Kg	☼	54	65 - 114
Bis(2-chloroethoxy)methane	370	U	3700	2240		ug/Kg	☼	61	61 - 102
Bis(2-chloroethyl)ether	37	U	3700	1910	*	ug/Kg	☼	52	58 - 102
Bis(2-ethylhexyl) phthalate	34	J	3700	2330		ug/Kg	☼	62	60 - 125
Butyl benzyl phthalate	370	U	3700	2350		ug/Kg	☼	64	62 - 123
Caprolactam	370	U	7390	2980	*	ug/Kg	☼	40	44 - 129
Carbazole	13	J	3700	2330		ug/Kg	☼	63	62 - 107
Chrysene	210	J	3700	2660		ug/Kg	☼	66	64 - 105
Dibenz(a,h)anthracene	42		3700	3060		ug/Kg	☼	82	54 - 126
Dibenzofuran	370	U	3700	2440		ug/Kg	☼	66	62 - 102
Diethyl phthalate	370	U	3700	2760		ug/Kg	☼	75	61 - 110
Dimethyl phthalate	370	U	3700	2790		ug/Kg	☼	76	64 - 108
Di-n-butyl phthalate	370	U	3700	2660		ug/Kg	☼	72	62 - 114
Di-n-octyl phthalate	370	U	3700	1680	*	ug/Kg	☼	45	52 - 137
Fluoranthene	340	J	3700	2780		ug/Kg	☼	66	59 - 109
Fluorene	18	J	3700	2430		ug/Kg	☼	65	65 - 108
Hexachlorobenzene	37	U	3700	2330	*	ug/Kg	☼	63	65 - 117
Hexachlorobutadiene	74	U	3700	2120	*	ug/Kg	☼	57	60 - 105
Hexachlorocyclopentadiene	370	U	3700	1040	*	ug/Kg	☼	28	37 - 119
Hexachloroethane	37	U	3700	1840	*	ug/Kg	☼	50	60 - 94
Indeno[1,2,3-cd]pyrene	160		3700	3300		ug/Kg	☼	85	50 - 134
Isophorone	150	U	3700	2350		ug/Kg	☼	63	60 - 102
Naphthalene	16	J	3700	2130	*	ug/Kg	☼	57	64 - 99
Nitrobenzene	37	U	3700	2170		ug/Kg	☼	59	59 - 102
N-Nitrosodi-n-propylamine	37	U	3700	2220		ug/Kg	☼	60	56 - 112
N-Nitrosodiphenylamine	370	U	3700	2560	*	ug/Kg	☼	69	71 - 119
Pentachlorophenol	300	U	7390	2100	*	ug/Kg	☼	28	47 - 115

TestAmerica Edison

QC Sample Results

Client: New York State D.E.C.
Project/Site: DEC Elmont546; Site: E130150

TestAmerica Job ID: 460-112518-1

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

Lab Sample ID: 460-112310-A-6-A MS

Matrix: Solid

Analysis Batch: 364897

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 364798

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Phenanthrene	120	J	3700	2540		ug/Kg	☼	66	66 - 105
Phenol	370	U	3700	1900	*	ug/Kg	☼	51	55 - 99
Pyrene	240	J	3700	2370		ug/Kg	☼	58	55 - 126
Surrogate	MS %Recovery	MS Qualifier	Limits						
2,4,6-Tribromophenol (Surr)	61		10 - 95						
2-Fluorobiphenyl	63		27 - 84						
2-Fluorophenol (Surr)	49		21 - 84						
Nitrobenzene-d5 (Surr)	57		28 - 92						
Phenol-d5 (Surr)	48		22 - 88						
Terphenyl-d14 (Surr)	56		16 - 114						

Lab Sample ID: 460-112310-A-6-B MSD

Matrix: Solid

Analysis Batch: 364897

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 364798

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1'-Biphenyl	370	U	3700	2090	*	ug/Kg	☼	57	64 - 103	14	30
1,2,4,5-Tetrachlorobenzene	370	U	3700	1980	*	ug/Kg	☼	53	62 - 109	16	30
2,2'-oxybis[1-chloropropane]	370	U	3700	1670		ug/Kg	☼	45	42 - 119	18	30
2,3,4,6-Tetrachlorophenol	370	U	3700	1630	*	ug/Kg	☼	44	57 - 113	10	30
2,4,5-Trichlorophenol	370	U	3700	1620	*	ug/Kg	☼	44	59 - 105	9	30
2,4,6-Trichlorophenol	150	U	3700	1950	*	ug/Kg	☼	53	61 - 107	12	30
2,4-Dichlorophenol	150	U	3700	1660	*	ug/Kg	☼	45	59 - 99	12	30
2,4-Dimethylphenol	370	U	3700	1840	*	ug/Kg	☼	50	60 - 98	13	30
2,4-Dinitrophenol	300	U	7390	382	*	ug/Kg	☼	5	26 - 137	5	30
2,4-Dinitrotoluene	74	U	3700	2250		ug/Kg	☼	61	61 - 118	19	30
2,6-Dinitrotoluene	74	U	3700	2210	*	ug/Kg	☼	60	63 - 112	15	30
2-Chloronaphthalene	370	U	3700	1990	*	ug/Kg	☼	54	63 - 102	17	30
2-Chlorophenol	370	U	3700	1610	*	ug/Kg	☼	44	58 - 95	17	30
2-Methylnaphthalene	17	J	3700	1790	*	ug/Kg	☼	48	64 - 102	15	30
2-Methylphenol	370	U	3700	1620	*	ug/Kg	☼	44	56 - 99	18	30
2-Nitroaniline	370	U	3700	2270		ug/Kg	☼	61	46 - 113	16	30
2-Nitrophenol	370	U	3700	1720	*	ug/Kg	☼	46	63 - 103	12	30
3,3'-Dichlorobenzidine	150	U	3700	1600		ug/Kg	☼	43	18 - 92	0	30
3-Nitroaniline	370	U	3700	1750		ug/Kg	☼	47	23 - 89	6	30
4,6-Dinitro-2-methylphenol	300	U	7390	807	*	ug/Kg	☼	11	51 - 124	30	30
4-Bromophenyl phenyl ether	370	U	3700	2190	*	ug/Kg	☼	59	65 - 114	14	30
4-Chloro-3-methylphenol	370	U	3700	1810	*	ug/Kg	☼	49	58 - 108	14	30
4-Chloroaniline	370	U	3700	1070		ug/Kg	☼	29	10 - 82	10	30
4-Chlorophenyl phenyl ether	370	U	3700	2110	*	ug/Kg	☼	57	63 - 107	16	30
4-Methylphenol	370	U	3700	1730	*	ug/Kg	☼	47	53 - 103	19	30
4-Nitroaniline	370	U	3700	1670		ug/Kg	☼	45	44 - 109	0	30
4-Nitrophenol	740	U	7390	4060		ug/Kg	☼	55	45 - 125	11	30
Acenaphthene	370	U	3700	2120	*	ug/Kg	☼	57	59 - 102	15	30
Acenaphthylene	40	J	3700	2060	*	ug/Kg	☼	55	63 - 102	16	30
Acetophenone	370	U	3700	1640	*	ug/Kg	☼	44	56 - 107	21	30
Anthracene	54	J	3700	2240	*	ug/Kg	☼	59	66 - 105	12	30

TestAmerica Edison

QC Sample Results

Client: New York State D.E.C.
Project/Site: DEC Elmont546; Site: E130150

TestAmerica Job ID: 460-112518-1

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

Lab Sample ID: 460-112310-A-6-B MSD

Matrix: Solid

Analysis Batch: 364897

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 364798

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Atrazine	150	U	7390	5230		ug/Kg	☀	71	41 - 116	11	30
Benzaldehyde	370	U	7390	2620	*	ug/Kg	☀	35	55 - 116	21	30
Benzo[a]anthracene	190		3700	2230	*	ug/Kg	☀	55	65 - 106	15	30
Benzo[a]pyrene	210		3700	2320	*	ug/Kg	☀	57	68 - 111	14	30
Benzo[b]fluoranthene	260		3700	2220	*	ug/Kg	☀	53	67 - 116	17	30
Benzo[g,h,i]perylene	140	J	3700	1990	*	ug/Kg	☀	50	49 - 124	37	30
Benzo[k]fluoranthene	110		3700	2050	*	ug/Kg	☀	52	65 - 114	3	30
Bis(2-chloroethoxy)methane	370	U	3700	1970	*	ug/Kg	☀	53	61 - 102	13	30
Bis(2-chloroethyl)ether	37	U	3700	1610	*	ug/Kg	☀	43	58 - 102	17	30
Bis(2-ethylhexyl) phthalate	34	J	3700	1980	*	ug/Kg	☀	53	60 - 125	16	30
Butyl benzyl phthalate	370	U	3700	1910	*	ug/Kg	☀	52	62 - 123	21	30
Caprolactam	370	U	7390	2950	*	ug/Kg	☀	40	44 - 129	1	30
Carbazole	13	J	3700	2210	*	ug/Kg	☀	59	62 - 107	5	30
Chrysene	210	J	3700	2430	*	ug/Kg	☀	60	64 - 105	9	30
Dibenz(a,h)anthracene	42		3700	2220	*	ug/Kg	☀	59	54 - 126	32	30
Dibenzofuran	370	U	3700	2050	*	ug/Kg	☀	55	62 - 102	17	30
Diethyl phthalate	370	U	3700	2370		ug/Kg	☀	64	61 - 110	15	30
Dimethyl phthalate	370	U	3700	2420		ug/Kg	☀	65	64 - 108	14	30
Di-n-butyl phthalate	370	U	3700	2480		ug/Kg	☀	67	62 - 114	7	30
Di-n-octyl phthalate	370	U	3700	1460	*	ug/Kg	☀	40	52 - 137	14	30
Fluoranthene	340	J	3700	2620		ug/Kg	☀	62	59 - 109	6	30
Fluorene	18	J	3700	2090	*	ug/Kg	☀	56	65 - 108	15	30
Hexachlorobenzene	37	U	3700	2060	*	ug/Kg	☀	56	65 - 117	12	30
Hexachlorobutadiene	74	U	3700	1810	*	ug/Kg	☀	49	60 - 105	16	30
Hexachlorocyclopentadiene	370	U	3700	650	*	ug/Kg	☀	18	37 - 119	46	30
Hexachloroethane	37	U	3700	1520	*	ug/Kg	☀	41	60 - 94	19	30
Indeno[1,2,3-cd]pyrene	160		3700	2330	*	ug/Kg	☀	59	50 - 134	35	30
Isophorone	150	U	3700	2070	*	ug/Kg	☀	56	60 - 102	13	30
Naphthalene	16	J	3700	1830	*	ug/Kg	☀	49	64 - 99	15	30
Nitrobenzene	37	U	3700	1890	*	ug/Kg	☀	51	59 - 102	14	30
N-Nitrosodi-n-propylamine	37	U	3700	1820	*	ug/Kg	☀	49	56 - 112	20	30
N-Nitrosodiphenylamine	370	U	3700	2270	*	ug/Kg	☀	62	71 - 119	12	30
Pentachlorophenol	300	U	7390	2270	*	ug/Kg	☀	31	47 - 115	8	30
Phenanthrene	120	J	3700	2240	*	ug/Kg	☀	57	66 - 105	13	30
Phenol	370	U	3700	1570	*	ug/Kg	☀	42	55 - 99	19	30
Pyrene	240	J	3700	1830	*	ug/Kg	☀	43	55 - 126	26	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2,4,6-Tribromophenol (Surr)	53		10 - 95
2-Fluorobiphenyl	53		27 - 84
2-Fluorophenol (Surr)	40		21 - 84
Nitrobenzene-d5 (Surr)	49		28 - 92
Phenol-d5 (Surr)	39		22 - 88
Terphenyl-d14 (Surr)	43		16 - 114

QC Sample Results

Client: New York State D.E.C.
Project/Site: DEC Elmont546; Site: E130150

TestAmerica Job ID: 460-112518-1

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 460-364053/1-A ^2

Matrix: Solid

Analysis Batch: 364209

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 364053

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.0	U	2.0	0.79	mg/Kg		04/22/16 07:41	04/22/16 15:43	2
Arsenic	1.5	U	1.5	0.49	mg/Kg		04/22/16 07:41	04/22/16 15:43	2
Barium	20.0	U	20.0	0.72	mg/Kg		04/22/16 07:41	04/22/16 15:43	2
Beryllium	0.20	U	0.20	0.17	mg/Kg		04/22/16 07:41	04/22/16 15:43	2
Cadmium	0.40	U	0.40	0.21	mg/Kg		04/22/16 07:41	04/22/16 15:43	2
Calcium	500	U	500	29.6	mg/Kg		04/22/16 07:41	04/22/16 15:43	2
Chromium	1.0	U	1.0	0.48	mg/Kg		04/22/16 07:41	04/22/16 15:43	2
Cobalt	5.0	U	5.0	0.58	mg/Kg		04/22/16 07:41	04/22/16 15:43	2
Copper	2.5	U	2.5	0.65	mg/Kg		04/22/16 07:41	04/22/16 15:43	2
Iron	15.0	U	15.0	11.3	mg/Kg		04/22/16 07:41	04/22/16 15:43	2
Magnesium	500	U	500	25.0	mg/Kg		04/22/16 07:41	04/22/16 15:43	2
Manganese	1.5	U	1.5	0.53	mg/Kg		04/22/16 07:41	04/22/16 15:43	2
Nickel	4.0	U	4.0	0.73	mg/Kg		04/22/16 07:41	04/22/16 15:43	2
Potassium	500	U	500	15.2	mg/Kg		04/22/16 07:41	04/22/16 15:43	2
Selenium	2.0	U	2.0	0.69	mg/Kg		04/22/16 07:41	04/22/16 15:43	2
Silver	1.0	U	1.0	0.18	mg/Kg		04/22/16 07:41	04/22/16 15:43	2
Sodium	500	U	500	33.9	mg/Kg		04/22/16 07:41	04/22/16 15:43	2
Thallium	2.0	U	2.0	0.89	mg/Kg		04/22/16 07:41	04/22/16 15:43	2
Vanadium	5.0	U	5.0	0.50	mg/Kg		04/22/16 07:41	04/22/16 15:43	2
Zinc	3.0	U	3.0	0.73	mg/Kg		04/22/16 07:41	04/22/16 15:43	2

Lab Sample ID: MB 460-364053/1-A ^2

Matrix: Solid

Analysis Batch: 364279

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 364053

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	20.0	U	20.0	10.3	mg/Kg		04/22/16 07:41	04/23/16 12:31	2
Lead	1.0	U	1.0	0.39	mg/Kg		04/22/16 07:41	04/23/16 12:31	2

Lab Sample ID: LCSSRM 460-364053/2-A ^4

Matrix: Solid

Analysis Batch: 364209

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 364053

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	8080	7629		mg/Kg		94.4	51.1 - 148.5
Antimony	123	84.70		mg/Kg		68.9	1.0 - 200.0
Arsenic	145	151.1		mg/Kg		104.2	79.3 - 121.4
Barium	209	226.0		mg/Kg		108.1	83.3 - 117.2
Beryllium	97.3	105.7		mg/Kg		108.6	82.6 - 117.2
Cadmium	87.6	94.23		mg/Kg		107.6	82.6 - 117.6
Calcium	5690	5979		mg/Kg		105.1	81.0 - 118.8
Chromium	143	155.9		mg/Kg		109.0	79.7 - 119.6

TestAmerica Edison

QC Sample Results

Client: New York State D.E.C.
Project/Site: DEC Elmont546; Site: E130150

TestAmerica Job ID: 460-112518-1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCSSRM 460-364053/2-A ^4

Matrix: Solid

Analysis Batch: 364209

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 364053

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Cobalt	154	168.8		mg/Kg		109.6	83.8 - 115.6
Copper	173	181.3		mg/Kg		104.8	81.5 - 117.9
Iron	15000	15880		mg/Kg		105.9	46.8 - 154.0
Lead	146	158.1		mg/Kg		108.3	81.5 - 118.5
Magnesium	2640	2616		mg/Kg		99.1	76.5 - 123.5
Manganese	309	350.5		mg/Kg		113.4	81.6 - 118.8
Nickel	129	146.3		mg/Kg		113.4	82.9 - 117.1
Potassium	2400	2377		mg/Kg		99.0	71.7 - 128.3
Selenium	178	179.3		mg/Kg		100.7	78.7 - 121.3
Silver	31.3	31.69		mg/Kg		101.2	75.1 - 124.9
Sodium	869	884.3	J	mg/Kg		101.8	72.7 - 126.6
Thallium	141	160.4		mg/Kg		113.8	79.4 - 121.3
Vanadium	115	120.4		mg/Kg		104.7	77.6 - 122.6
Zinc	194	213.4		mg/Kg		110.0	82.0 - 118.0

Lab Sample ID: 460-112480-A-1-C MS ^4

Matrix: Solid

Analysis Batch: 364209

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 364053

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	4.7	U	57.9	31.57	N	mg/Kg	☼	54	75 - 125
Arsenic	7.3		232	229.5		mg/Kg	☼	96	75 - 125
Barium	46.9		232	283.2		mg/Kg	☼	102	75 - 125
Beryllium	1.3		5.79	7.48		mg/Kg	☼	107	75 - 125
Cadmium	0.94	U	5.79	5.51		mg/Kg	☼	95	75 - 125
Calcium	902	J	2320	3203		mg/Kg	☼	99	75 - 125
Chromium	32.2		23.2	55.63		mg/Kg	☼	101	75 - 125
Cobalt	9.8	J	57.9	67.71		mg/Kg	☼	100	75 - 125
Copper	12.8		29.0	41.58		mg/Kg	☼	99	75 - 125
Iron	31800		116	31640	4	mg/Kg	☼	-121	75 - 125
Magnesium	2900		2320	5264		mg/Kg	☼	102	75 - 125
Manganese	384		57.9	422.1	4	mg/Kg	☼	66	75 - 125
Nickel	15.5		57.9	76.70		mg/Kg	☼	106	75 - 125
Potassium	1020	J	2320	3284		mg/Kg	☼	98	75 - 125
Selenium	4.7	U	232	218.6		mg/Kg	☼	94	75 - 125
Silver	2.3	U	5.79	5.41		mg/Kg	☼	93	75 - 125
Sodium	1170	U	2320	2378		mg/Kg	☼	103	75 - 125
Thallium	4.7	U	232	242.2		mg/Kg	☼	104	75 - 125

TestAmerica Edison

QC Sample Results

Client: New York State D.E.C.
Project/Site: DEC Elmont546; Site: E130150

TestAmerica Job ID: 460-112518-1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: 460-112480-A-1-C MS ^4
Matrix: Solid
Analysis Batch: 364209

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 364053
%Rec.

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Vanadium	49.8		57.9	109.4		mg/Kg	☼	103	75 - 125
Zinc	38.3		57.9	100.3		mg/Kg	☼	107	75 - 125

Lab Sample ID: 460-112480-A-1-C MS ^4
Matrix: Solid
Analysis Batch: 364279

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 364053
%Rec.

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Aluminum	20400		232	17830	4	mg/Kg	☼	-1119	75 - 125
Lead	12.8		57.9	66.62		mg/Kg	☼	93	75 - 125

Lab Sample ID: 460-112480-A-1-B DU ^4
Matrix: Solid
Analysis Batch: 364209

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 364053

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Antimony	4.7	U	4.6	U	mg/Kg	☼	NC	20
Arsenic	7.3		7.05		mg/Kg	☼	3	20
Barium	46.9		43.62	J	mg/Kg	☼	7	20
Beryllium	1.3		1.21		mg/Kg	☼	7	20
Cadmium	0.94	U	0.92	U	mg/Kg	☼	NC	20
Calcium	902	J	854.6	J	mg/Kg	☼	5	20
Chromium	32.2		30.19		mg/Kg	☼	6	20
Cobalt	9.8	J	9.78	J	mg/Kg	☼	0.5	20
Copper	12.8		12.62		mg/Kg	☼	2	20
Iron	31800		30220		mg/Kg	☼	5	20
Magnesium	2900		2735		mg/Kg	☼	6	20
Manganese	384		423.6		mg/Kg	☼	10	20
Nickel	15.5		15.23		mg/Kg	☼	1	20
Potassium	1020	J	920.2	J	mg/Kg	☼	11	20
Selenium	4.7	U	4.6	U	mg/Kg	☼	NC	20
Silver	2.3	U	2.3	U	mg/Kg	☼	NC	20
Sodium	1170	U	1150	U	mg/Kg	☼	NC	20
Thallium	4.7	U	4.6	U	mg/Kg	☼	NC	20
Vanadium	49.8		46.61		mg/Kg	☼	7	20
Zinc	38.3		37.77		mg/Kg	☼	1	20

Lab Sample ID: 460-112480-A-1-B DU ^4
Matrix: Solid
Analysis Batch: 364279

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 364053

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Aluminum	20400		15910	*	mg/Kg	☼	25	20
Lead	12.8		9.70	*	mg/Kg	☼	27	20

Definitions/Glossary

Client: New York State D.E.C.
Project/Site: DEC Elmont546; Site: E130150

TestAmerica Job ID: 460-112518-1

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
*	MS or MSD is outside acceptance limits.
*	Duplicate RPD exceeds control limits
U	Analyzed for but not detected.
J	Indicates an estimated value.

Metals

Qualifier	Qualifier Description
U	Indicates analyzed for but not detected.
J	Sample result is greater than the MDL but below the CRDL
*	Duplicate analysis not within control limits.
N	Spiked sample recovery is not within control limits.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

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, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

QC Association Summary

Client: New York State D.E.C.
Project/Site: DEC Elmont546; Site: E130150

TestAmerica Job ID: 460-112518-1

GC/MS Semi VOA

Prep Batch: 364798

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-112310-A-6-A MS	Matrix Spike	Total/NA	Solid	3546	
460-112310-A-6-B MSD	Matrix Spike Duplicate	Total/NA	Solid	3546	
460-112518-1	A3	Total/NA	Solid	3546	
LCS 460-364798/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCS 460-364798/3-A	Lab Control Sample	Total/NA	Solid	3546	
MB 460-364798/1-A	Method Blank	Total/NA	Solid	3546	

Analysis Batch: 364897

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-112310-A-6-A MS	Matrix Spike	Total/NA	Solid	8270D	364798
460-112310-A-6-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8270D	364798
LCS 460-364798/2-A	Lab Control Sample	Total/NA	Solid	8270D	364798
LCS 460-364798/3-A	Lab Control Sample	Total/NA	Solid	8270D	364798
MB 460-364798/1-A	Method Blank	Total/NA	Solid	8270D	364798

Analysis Batch: 365067

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-112518-1	A3	Total/NA	Solid	8270D	364798

Metals

Prep Batch: 364053

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-112480-A-1-A PDS ^4	Post Spike	Total/NA	Solid	3050B	
460-112480-A-1-A SD ^20	SD	Total/NA	Solid	3050B	
460-112480-A-1-B DU ^4	Duplicate	Total/NA	Solid	3050B	
460-112480-A-1-C MS ^4	Matrix Spike	Total/NA	Solid	3050B	
460-112518-1	A3	Total/NA	Solid	3050B	
LCSSRM 460-364053/2-A ^4	Lab Control Sample	Total/NA	Solid	3050B	
MB 460-364053/1-A ^2	Method Blank	Total/NA	Solid	3050B	

Analysis Batch: 364209

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-112480-A-1-A PDS ^4	Post Spike	Total/NA	Solid	6010C	364053
460-112480-A-1-A SD ^20	SD	Total/NA	Solid	6010C	364053
460-112480-A-1-B DU ^4	Duplicate	Total/NA	Solid	6010C	364053
460-112480-A-1-C MS ^4	Matrix Spike	Total/NA	Solid	6010C	364053
460-112518-1	A3	Total/NA	Solid	6010C	364053
ICSA 460-364209/40	ICS		Solid	6010C	
ICSAB 460-364209/41	ICS		Solid	6010C	
LCSSRM 460-364053/2-A ^4	Lab Control Sample	Total/NA	Solid	6010C	364053
MB 460-364053/1-A ^2	Method Blank	Total/NA	Solid	6010C	364053

Analysis Batch: 364279

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-112480-A-1-A PDS ^4	Post Spike	Total/NA	Solid	6010C	364053
460-112480-A-1-A SD ^20	SD	Total/NA	Solid	6010C	364053
460-112480-A-1-B DU ^4	Duplicate	Total/NA	Solid	6010C	364053
460-112480-A-1-C MS ^4	Matrix Spike	Total/NA	Solid	6010C	364053
460-112518-1	A3	Total/NA	Solid	6010C	364053

QC Association Summary

Client: New York State D.E.C.
Project/Site: DEC Elmont546; Site: E130150

TestAmerica Job ID: 460-112518-1

Metals (Continued)

Analysis Batch: 364279 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
ICSA 460-364279/10	ICS		Solid	6010C	
ICSAB 460-364279/11	ICS		Solid	6010C	
MB 460-364053/1-A ^2	Method Blank	Total/NA	Solid	6010C	364053

General Chemistry

Analysis Batch: 363846

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-112516-B-2 DU	Duplicate	Total/NA	Solid	Moisture	
460-112518-1	A3	Total/NA	Solid	Moisture	

Lab Chronicle

Client: New York State D.E.C.
Project/Site: DEC Elmont546; Site: E130150

TestAmerica Job ID: 460-112518-1

Client Sample ID: A3

Date Collected: 04/18/16 09:40

Date Received: 04/18/16 17:40

Lab Sample ID: 460-112518-1

Matrix: Solid

Percent Solids: 94.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			364798	04/26/16 13:16	RAD	TAL EDI
Total/NA	Analysis	8270D		1	365067	04/27/16 22:35	MMC	TAL EDI
Total/NA	Prep	3050B			364053	04/22/16 07:41	MDC	TAL EDI
Total/NA	Analysis	6010C		4	364209	04/22/16 17:07	CDC	TAL EDI
Total/NA	Prep	3050B			364053	04/22/16 07:41	MDC	TAL EDI
Total/NA	Analysis	6010C		4	364279	04/23/16 12:35	CDC	TAL EDI
Total/NA	Analysis	Moisture		1	363846	04/21/16 09:23	CJA	TAL EDI

Laboratory References:

TAL EDI = TestAmerica Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Certification Summary

Client: New York State D.E.C.
Project/Site: DEC Elmont546; Site: E130150

TestAmerica Job ID: 460-112518-1

Laboratory: TestAmerica Edison

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

Authority	Program	EPA Region	Certification ID	Expiration Date
New York	NELAP	2	11452	03-31-17
The following analytes are included in this report, but certification is not offered by the governing authority:				
Analysis Method	Prep Method	Matrix	Analyte	
Moisture		Solid	Percent Moisture	
Moisture		Solid	Percent Solids	

8270D

Semivolatile Organic Compounds
(GC/MS)

FORM II
GC/MS SEMI VOA SURROGATE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-112518-1
 SDG No.: _____
 Matrix: Solid Level: Low
 GC Column (1): Rtxi-5Sil M ID: 0.25 (mm)

Client Sample ID	Lab Sample ID	2FP #	PHL #	NBZ #	FBP #	TBP #	TPH #
A3	460-112518-1	53	53	58	65	57	75
	MB 460-364798/1-A	70	73	72	70	93	84
	LCS 460-364798/2-A	63	61	65	67	87	74
	LCS 460-364798/3-A	68	70	72	70	87	81
	460-112310-A-6-A MS	49	48	57	63	61	56
	460-112310-A-6-B MSD	40	39	49	53	53	43

	<u>QC LIMITS</u>
2FP = 2-Fluorophenol (Surr)	21-84
PHL = Phenol-d5 (Surr)	22-88
NBZ = Nitrobenzene-d5 (Surr)	28-92
FBP = 2-Fluorobiphenyl	27-84
TBP = 2,4,6-Tribromophenol (Surr)	10-95
TPH = Terphenyl-d14 (Surr)	16-114

Column to be used to flag recovery values

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-112518-1
 SDG No.: _____
 Matrix: Solid Level: Low Lab File ID: x13334.D
 Lab ID: LCS 460-364798/2-A Client ID: _____

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
1,1'-Biphenyl	3330	2360	71	64-103	
1,2,4,5-Tetrachlorobenzene	3330	2360	71	62-109	
2,2'-oxybis[1-chloropropane]	3330	2220	66	42-119	
2,3,4,6-Tetrachlorophenol	3330	2660	80	57-113	
2,4,5-Trichlorophenol	3330	2370	71	59-105	
2,4,6-Trichlorophenol	3330	2540	76	61-107	
2,4-Dichlorophenol	3330	2250	68	59-99	
2,4-Dimethylphenol	3330	2230	67	60-98	
2,4-Dinitrophenol	6670	5360	80	26-137	
2,4-Dinitrotoluene	3330	2660	80	61-118	
2,6-Dinitrotoluene	3330	2520	76	63-112	
2-Chloronaphthalene	3330	2350	70	63-102	
2-Chlorophenol	3330	2270	68	58-95	
2-Methylnaphthalene	3330	2280	68	64-102	
2-Methylphenol	3330	2290	69	56-99	
2-Nitroaniline	3330	2540	76	46-113	
2-Nitrophenol	3330	2350	70	63-103	
3,3'-Dichlorobenzidine	3330	1770	53	18-92	
3-Nitroaniline	3330	1810	54	23-89	
4,6-Dinitro-2-methylphenol	6670	5150	77	51-124	
4-Bromophenyl phenyl ether	3330	2590	78	65-114	
4-Chloro-3-methylphenol	3330	2440	73	58-108	
4-Chloroaniline	3330	1800	54	10-82	
4-Chlorophenyl phenyl ether	3330	2580	78	63-107	
4-Methylphenol	3330	2430	73	53-103	
4-Nitroaniline	3330	2430	73	44-109	
4-Nitrophenol	6670	5630	84	45-125	
Acenaphthene	3330	2550	76	59-102	
Acenaphthylene	3330	2470	74	63-102	
Acetophenone	3330	2360	71	56-107	
Anthracene	3330	2590	78	66-105	
Benzo[a]anthracene	3330	2570	77	65-106	
Benzo[a]pyrene	3330	2620	79	68-111	
Benzo[b]fluoranthene	3330	2710	81	67-116	
Benzo[g,h,i]perylene	3330	2630	79	49-124	
Benzo[k]fluoranthene	3330	2400	72	65-114	
Bis(2-chloroethoxy)methane	3330	2360	71	61-102	
Bis(2-chloroethyl)ether	3330	2180	65	58-102	
Bis(2-ethylhexyl) phthalate	3330	2370	71	60-125	
Butyl benzyl phthalate	3330	2510	75	62-123	
Carbazole	3330	2530	76	62-107	
Chrysene	3330	2580	77	64-105	

Column to be used to flag recovery and RPD values

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-112518-1
 SDG No.: _____
 Matrix: Solid Level: Low Lab File ID: x13334.D
 Lab ID: LCS 460-364798/2-A Client ID: _____

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Dibenz (a,h) anthracene	3330	2880	86	54-126	
Dibenzofuran	3330	2480	74	62-102	
Diethyl phthalate	3330	2610	78	61-110	
Dimethyl phthalate	3330	2570	77	64-108	
Di-n-butyl phthalate	3330	2580	78	62-114	
Di-n-octyl phthalate	3330	2360	71	52-137	
Fluoranthene	3330	2600	78	59-109	
Fluorene	3330	2560	77	65-108	
Hexachlorobenzene	3330	2700	81	65-117	
Hexachlorobutadiene	3330	2330	70	60-105	
Hexachlorocyclopentadiene	3330	2690	81	37-119	
Hexachloroethane	3330	2160	65	60-94	
Indeno[1,2,3-cd]pyrene	3330	2990	90	50-134	
Isophorone	3330	2450	73	60-102	
Naphthalene	3330	2290	69	64-99	
Nitrobenzene	3330	2240	67	59-102	
N-Nitrosodi-n-propylamine	3330	2440	73	56-112	
N-Nitrosodiphenylamine	3330	2510	75	71-119	
Pentachlorophenol	6670	5210	78	47-115	
Phenanthrene	3330	2490	75	66-105	
Phenol	3330	2310	69	55-99	
Pyrene	3330	2490	75	55-126	

Column to be used to flag recovery and RPD values

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-112518-1
SDG No.: _____
Matrix: Solid Level: Low Lab File ID: x13335.D
Lab ID: LCS 460-364798/3-A Client ID: _____

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Atrazine	6670	5730	86	41-116	
Benzaldehyde	6670	4110	62	55-116	
Caprolactam	6670	6730	101	44-129	

Column to be used to flag recovery and RPD values

FORM III
GC/MS SEMI VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-112518-1
SDG No.: _____
Matrix: Solid Level: Low Lab File ID: x13351.D
Lab ID: 460-112310-A-6-A MS Client ID: _____

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
1,1'-Biphenyl	3700	370 U	2420	65	64-103	
1,2,4,5-Tetrachlorobenzene	3700	370 U	2330	63	62-109	
2,2'-oxybis[1-chloropropane]	3700	370 U	2010	54	42-119	
2,3,4,6-Tetrachlorophenol	3700	370 U	1800	49	57-113	*
2,4,5-Trichlorophenol	3700	370 U	1770	48	59-105	*
2,4,6-Trichlorophenol	3700	150 U	2190	59	61-107	*
2,4-Dichlorophenol	3700	150 U	1880	51	59-99	*
2,4-Dimethylphenol	3700	370 U	2100	57	60-98	*
2,4-Dinitrophenol	7390	300 U	403	5	26-137	*
2,4-Dinitrotoluene	3700	74 U	2710	73	61-118	
2,6-Dinitrotoluene	3700	74 U	2580	70	63-112	
2-Chloronaphthalene	3700	370 U	2340	63	63-102	
2-Chlorophenol	3700	370 U	1920	52	58-95	*
2-Methylnaphthalene	3700	17 J	2080	56	64-102	*
2-Methylphenol	3700	370 U	1940	52	56-99	*
2-Nitroaniline	3700	370 U	2670	72	46-113	
2-Nitrophenol	3700	370 U	1940	52	63-103	*
3,3'-Dichlorobenzidine	3700	150 U	1600	43	18-92	
3-Nitroaniline	3700	370 U	1870	51	23-89	
4,6-Dinitro-2-methylphenol	7390	300 U	1090	15	51-124	*
4-Bromophenyl phenyl ether	3700	370 U	2520	68	65-114	
4-Chloro-3-methylphenol	3700	370 U	2080	56	58-108	*
4-Chloroaniline	3700	370 U	1180	32	10-82	
4-Chlorophenyl phenyl ether	3700	370 U	2480	67	63-107	
4-Methylphenol	3700	370 U	2090	56	53-103	
4-Nitroaniline	3700	370 U	1670	45	44-109	
4-Nitrophenol	7390	740 U	4520	61	45-125	
Acenaphthene	3700	370 U	2460	67	59-102	
Acenaphthylene	3700	40 J	2420	64	63-102	
Acetophenone	3700	370 U	2030	55	56-107	*
Anthracene	3700	54 J	2520	67	66-105	
Atrazine	7390	150 U	5850	79	41-116	
Benzaldehyde	7390	370 U	3230	44	55-116	*
Benzo[a]anthracene	3700	190	2590	65	65-106	
Benzo[a]pyrene	3700	210	2660	66	68-111	*
Benzo[b]fluoranthene	3700	260	2620	64	67-116	*
Benzo[g,h,i]perylene	3700	140 J	2880	74	49-124	
Benzo[k]fluoranthene	3700	110	2110	54	65-114	*
Bis(2-chloroethoxy)methane	3700	370 U	2240	61	61-102	
Bis(2-chloroethyl)ether	3700	37 U	1910	52	58-102	*
Bis(2-ethylhexyl) phthalate	3700	34 J	2330	62	60-125	
Butyl benzyl phthalate	3700	370 U	2350	64	62-123	

Column to be used to flag recovery and RPD values

FORM III
GC/MS SEMI VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-112518-1
 SDG No.: _____
 Matrix: Solid Level: Low Lab File ID: x13351.D
 Lab ID: 460-112310-A-6-A MS Client ID: _____

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Caprolactam	7390	370 U	2980	40	44-129	*
Carbazole	3700	13 J	2330	63	62-107	
Chrysene	3700	210 J	2660	66	64-105	
Dibenz (a,h) anthracene	3700	42	3060	82	54-126	
Dibenzofuran	3700	370 U	2440	66	62-102	
Diethyl phthalate	3700	370 U	2760	75	61-110	
Dimethyl phthalate	3700	370 U	2790	76	64-108	
Di-n-butyl phthalate	3700	370 U	2660	72	62-114	
Di-n-octyl phthalate	3700	370 U	1680	45	52-137	*
Fluoranthene	3700	340 J	2780	66	59-109	
Fluorene	3700	18 J	2430	65	65-108	
Hexachlorobenzene	3700	37 U	2330	63	65-117	*
Hexachlorobutadiene	3700	74 U	2120	57	60-105	*
Hexachlorocyclopentadiene	3700	370 U	1040	28	37-119	*
Hexachloroethane	3700	37 U	1840	50	60-94	*
Indeno[1,2,3-cd]pyrene	3700	160	3300	85	50-134	
Isophorone	3700	150 U	2350	63	60-102	
Naphthalene	3700	16 J	2130	57	64-99	*
Nitrobenzene	3700	37 U	2170	59	59-102	
N-Nitrosodi-n-propylamine	3700	37 U	2220	60	56-112	
N-Nitrosodiphenylamine	3700	370 U	2560	69	71-119	*
Pentachlorophenol	7390	300 U	2100	28	47-115	*
Phenanthrene	3700	120 J	2540	66	66-105	
Phenol	3700	370 U	1900	51	55-99	*
Pyrene	3700	240 J	2370	58	55-126	

Column to be used to flag recovery and RPD values

FORM III
GC/MS SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-112518-1
 SDG No.: _____
 Matrix: Solid Level: Low Lab File ID: x13352.D
 Lab ID: 460-112310-A-6-B MSD Client ID: _____

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
1,1'-Biphenyl	3700	2090	57	14	30	64-103	*
1,2,4,5-Tetrachlorobenzene	3700	1980	53	16	30	62-109	*
2,2'-oxybis[1-chloropropane]	3700	1670	45	18	30	42-119	
2,3,4,6-Tetrachlorophenol	3700	1630	44	10	30	57-113	*
2,4,5-Trichlorophenol	3700	1620	44	9	30	59-105	*
2,4,6-Trichlorophenol	3700	1950	53	12	30	61-107	*
2,4-Dichlorophenol	3700	1660	45	12	30	59-99	*
2,4-Dimethylphenol	3700	1840	50	13	30	60-98	*
2,4-Dinitrophenol	7390	382	5	5	30	26-137	*
2,4-Dinitrotoluene	3700	2250	61	19	30	61-118	
2,6-Dinitrotoluene	3700	2210	60	15	30	63-112	*
2-Chloronaphthalene	3700	1990	54	17	30	63-102	*
2-Chlorophenol	3700	1610	44	17	30	58-95	*
2-Methylnaphthalene	3700	1790	48	15	30	64-102	*
2-Methylphenol	3700	1620	44	18	30	56-99	*
2-Nitroaniline	3700	2270	61	16	30	46-113	
2-Nitrophenol	3700	1720	46	12	30	63-103	*
3,3'-Dichlorobenzidine	3700	1600	43	0	30	18-92	
3-Nitroaniline	3700	1750	47	6	30	23-89	
4,6-Dinitro-2-methylphenol	7390	807	11	30	30	51-124	*
4-Bromophenyl phenyl ether	3700	2190	59	14	30	65-114	*
4-Chloro-3-methylphenol	3700	1810	49	14	30	58-108	*
4-Chloroaniline	3700	1070	29	10	30	10-82	
4-Chlorophenyl phenyl ether	3700	2110	57	16	30	63-107	*
4-Methylphenol	3700	1730	47	19	30	53-103	*
4-Nitroaniline	3700	1670	45	0	30	44-109	
4-Nitrophenol	7390	4060	55	11	30	45-125	
Acenaphthene	3700	2120	57	15	30	59-102	*
Acenaphthylene	3700	2060	55	16	30	63-102	*
Acetophenone	3700	1640	44	21	30	56-107	*
Anthracene	3700	2240	59	12	30	66-105	*
Atrazine	7390	5230	71	11	30	41-116	
Benzaldehyde	7390	2620	35	21	30	55-116	*
Benzo[a]anthracene	3700	2230	55	15	30	65-106	*
Benzo[a]pyrene	3700	2320	57	14	30	68-111	*
Benzo[b]fluoranthene	3700	2220	53	17	30	67-116	*
Benzo[g,h,i]perylene	3700	1990	50	37	30	49-124	*
Benzo[k]fluoranthene	3700	2050	52	3	30	65-114	*
Bis(2-chloroethoxy)methane	3700	1970	53	13	30	61-102	*
Bis(2-chloroethyl)ether	3700	1610	43	17	30	58-102	*
Bis(2-ethylhexyl) phthalate	3700	1980	53	16	30	60-125	*
Butyl benzyl phthalate	3700	1910	52	21	30	62-123	*

Column to be used to flag recovery and RPD values

FORM III
GC/MS SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-112518-1
 SDG No.: _____
 Matrix: Solid Level: Low Lab File ID: x13352.D
 Lab ID: 460-112310-A-6-B MSD Client ID: _____

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Caprolactam	7390	2950	40	1	30	44-129	*
Carbazole	3700	2210	59	5	30	62-107	*
Chrysene	3700	2430	60	9	30	64-105	*
Dibenz (a,h) anthracene	3700	2220	59	32	30	54-126	*
Dibenzofuran	3700	2050	55	17	30	62-102	*
Diethyl phthalate	3700	2370	64	15	30	61-110	
Dimethyl phthalate	3700	2420	65	14	30	64-108	
Di-n-butyl phthalate	3700	2480	67	7	30	62-114	
Di-n-octyl phthalate	3700	1460	40	14	30	52-137	*
Fluoranthene	3700	2620	62	6	30	59-109	
Fluorene	3700	2090	56	15	30	65-108	*
Hexachlorobenzene	3700	2060	56	12	30	65-117	*
Hexachlorobutadiene	3700	1810	49	16	30	60-105	*
Hexachlorocyclopentadiene	3700	650	18	46	30	37-119	*
Hexachloroethane	3700	1520	41	19	30	60-94	*
Indeno[1,2,3-cd]pyrene	3700	2330	59	35	30	50-134	*
Isophorone	3700	2070	56	13	30	60-102	*
Naphthalene	3700	1830	49	15	30	64-99	*
Nitrobenzene	3700	1890	51	14	30	59-102	*
N-Nitrosodi-n-propylamine	3700	1820	49	20	30	56-112	*
N-Nitrosodiphenylamine	3700	2270	62	12	30	71-119	*
Pentachlorophenol	7390	2270	31	8	30	47-115	*
Phenanthrene	3700	2240	57	13	30	66-105	*
Phenol	3700	1570	42	19	30	55-99	*
Pyrene	3700	1830	43	26	30	55-126	*

Column to be used to flag recovery and RPD values

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-112518-1
SDG No.: _____
Lab File ID: x13333.D Lab Sample ID: MB 460-364798/1-A
Matrix: Solid Date Extracted: 04/26/2016 13:16
Instrument ID: CBNAMS5 Date Analyzed: 04/27/2016 05:36
Level: (Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 460-364798/2-A	x13334.D	04/27/2016 05:59
	LCS 460-364798/3-A	x13335.D	04/27/2016 06:23
	460-112310-A-6-A MS	x13351.D	04/27/2016 12:31
	460-112310-A-6-B MSD	x13352.D	04/27/2016 12:54
A3	460-112518-1	x13375.D	04/27/2016 22:35

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

Lab Name: TestAmerica Edison Job No.: 460-112518-1
SDG No.: _____
Lab File ID: x12691.D DFTPP Injection Date: 04/11/2016
Instrument ID: CBNAMS5 DFTPP Injection Time: 13:27
Analysis Batch No.: 361914

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0 % of mass 198	49.4
68	Less than 2.0 % of mass 69	0.8 (2.0) 1
69	Mass 69 relative abundance	40.0
70	Less than 2.0 % of mass 69	0.5 (1.3) 1
127	40.0 - 60.0 % of mass 198	50.2
197	Less than 1.0 % of mass 198	0.4
198	Base Peak, 100 % relative abundance	100.0
199	5.0- 9.0 % of mass 198	7.0
275	10.0 - 30.0 % of mass 198	24.5
365	Greater than 1.0 % of mass 198	4.3
441	Present but less than mass 443	19.6 (76.4) 3
442	Greater than 40.0 % of mass 198	130.1
443	17.0 - 23.0 % of mass 442	25.7 (19.8) 2

1-Value is % mass 69 2-Value is % mass 442 3-Value is % mass 443

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	STD50 460-361914/11	x12701.D	04/11/2016	17:25
	STD120 460-361914/12	x12702.D	04/11/2016	17:49
	STD80 460-361914/13	x12703.D	04/11/2016	18:14
	STD20 460-361914/14	x12704.D	04/11/2016	18:38
	STD10 460-361914/15	x12705.D	04/11/2016	19:03
	STD5 460-361914/16	x12706.D	04/11/2016	19:27
	STD2 460-361914/17	x12707.D	04/11/2016	19:51
	ICV 460-361914/19	x12709e.D	04/11/2016	22:26

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

Lab Name: TestAmerica Edison Job No.: 460-112518-1
SDG No.: _____
Lab File ID: x12964B.D DFTPP Injection Date: 04/18/2016
Instrument ID: CBNAMS5 DFTPP Injection Time: 11:25
Analysis Batch No.: 363141

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0 % of mass 198	40.8
68	Less than 2.0 % of mass 69	0.4 (1.1) 1
69	Mass 69 relative abundance	34.4
70	Less than 2.0 % of mass 69	0.3 (0.8) 1
127	40.0 - 60.0 % of mass 198	48.5
197	Less than 1.0 % of mass 198	0.2
198	Base Peak, 100 % relative abundance	100.0
199	5.0- 9.0 % of mass 198	6.6
275	10.0 - 30.0 % of mass 198	25.1
365	Greater than 1.0 % of mass 198	4.3
441	Present but less than mass 443	14.2 (80.2) 3
442	Greater than 40.0 % of mass 198	102.3
443	17.0 - 23.0 % of mass 442	17.8 (17.4) 2

1-Value is % mass 69 2-Value is % mass 442 3-Value is % mass 443

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	ICIS 460-363141/2	x12965.D	04/18/2016	11:44
	STD120 460-363141/3	x12966.D	04/18/2016	12:26
	STD80 460-363141/4	x12967.D	04/18/2016	12:50
	STD20 460-363141/5	x12968.D	04/18/2016	13:15
	STD10 460-363141/6	x12969.D	04/18/2016	13:39
	STD5 460-363141/7	x12970.D	04/18/2016	14:04
	STD2 460-363141/8	x12971.D	04/18/2016	14:28
	STD1 460-363141/9	x12972.D	04/18/2016	14:53
	STD05 460-363141/10	x12973.D	04/18/2016	15:17
	ICV 460-363141/11	x12974.D	04/18/2016	15:54

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

Lab Name: TestAmerica Edison Job No.: 460-112518-1
SDG No.: _____
Lab File ID: x13330.D DFTPP Injection Date: 04/27/2016
Instrument ID: CBNAMS5 DFTPP Injection Time: 04:12
Analysis Batch No.: 364897

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0 % of mass 198	37.9
68	Less than 2.0 % of mass 69	0.4 (1.2) 1
69	Mass 69 relative abundance	31.1
70	Less than 2.0 % of mass 69	0.3 (0.9) 1
127	40.0 - 60.0 % of mass 198	49.4
197	Less than 1.0 % of mass 198	0.2
198	Base Peak, 100 % relative abundance	100.0
199	5.0- 9.0 % of mass 198	7.2
275	10.0 - 30.0 % of mass 198	26.8
365	Greater than 1.0 % of mass 198	4.7
441	Present but less than mass 443	16.7 (78.6) 3
442	Greater than 40.0 % of mass 198	115.1
443	17.0 - 23.0 % of mass 442	21.2 (18.4) 2

1-Value is % mass 69 2-Value is % mass 442 3-Value is % mass 443

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 460-364897/2	x13331.D	04/27/2016	04:36
	CCV 460-364897/3	x13332.D	04/27/2016	05:13
	MB 460-364798/1-A	x13333.D	04/27/2016	05:36
	LCS 460-364798/2-A	x13334.D	04/27/2016	05:59
	LCS 460-364798/3-A	x13335.D	04/27/2016	06:23
	460-112310-A-6-A MS	x13351.D	04/27/2016	12:31
	460-112310-A-6-B MSD	x13352.D	04/27/2016	12:54

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

Lab Name: TestAmerica Edison Job No.: 460-112518-1
 SDG No.: _____
 Lab File ID: x13361.D DFTPP Injection Date: 04/27/2016
 Instrument ID: CBNAMS5 DFTPP Injection Time: 17:12
 Analysis Batch No.: 365067

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0 % of mass 198	40.7
68	Less than 2.0 % of mass 69	0.1 (0.2) 1
69	Mass 69 relative abundance	33.9
70	Less than 2.0 % of mass 69	0.4 (1.1) 1
127	40.0 - 60.0 % of mass 198	48.3
197	Less than 1.0 % of mass 198	0.4
198	Base Peak, 100 % relative abundance	100.0
199	5.0- 9.0 % of mass 198	5.5
275	10.0 - 30.0 % of mass 198	26.8
365	Greater than 1.0 % of mass 198	4.2
441	Present but less than mass 443	18.1 (83.4) 3
442	Greater than 40.0 % of mass 198	112.9
443	17.0 - 23.0 % of mass 442	21.7 (19.2) 2

1-Value is % mass 69 2-Value is % mass 442 3-Value is % mass 443

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 460-365067/2	x13362.D	04/27/2016	17:29
	CCV 460-365067/3	x13363.D	04/27/2016	17:57
A3	460-112518-1	x13375.D	04/27/2016	22:35

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

Lab Name: TestAmerica Edison Job No.: 460-112518-1
 SDG No.: _____
 Sample No.: ICIS 460-363141/2 Date Analyzed: 04/18/2016 11:44
 Instrument ID: CBNAMS5 GC Column: Rtxi-5Sil MS ID: 0.25 (mm)
 Lab File ID (Standard): x12965.D Heated Purge: (Y/N) N
 Calibration ID: 55341

	DCB		NPT		ANT	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT	1161225	4.08	3634515	5.37	1812776	7.12
UPPER LIMIT	2322450	4.58	7269030	5.87	3625552	7.62
LOWER LIMIT	580613	3.58	1817258	4.87	906388	6.62
LAB SAMPLE ID	CLIENT SAMPLE ID					
ICV 460-363141/11		1226043	4.08	4073514	5.36	2032441 7.11

DCB = 1,4-Dichlorobenzene-d4
 NPT = Naphthalene-d8
 ANT = Acenaphthene-d10

Area Limit = 50%-200% of internal standard area
 RT Limit = \pm 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 Edison Job No.: 460-112518-1
 SDG No.: _____
 Sample No.: ICIS 460-363141/2 Date Analyzed: 04/18/2016 11:44
 Instrument ID: CBNAMS5 GC Column: Rtxi-5Sil MS ID: 0.25 (mm)
 Lab File ID (Standard): x12965.D Heated Purge: (Y/N) N
 Calibration ID: 55341

	PHN		CRY		PRY	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT	2346578	8.56	1513059	11.25	1205002	13.07
UPPER LIMIT	4693156	9.06	3026118	11.75	2410004	13.57
LOWER LIMIT	1173289	8.06	756530	10.75	602501	12.57
LAB SAMPLE ID	CLIENT SAMPLE ID					
ICV 460-363141/11		2672128	8.56	1703180	11.25	1341707 13.07

PHN = Phenanthrene-d10
 CRY = Chrysene-d12
 PRY = Perylene-d12

Area Limit = 50%-200% of internal standard area
 RT Limit = \pm 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 Edison Job No.: 460-112518-1
 SDG No.: _____
 Sample No.: CCVIS 460-364897/2 Date Analyzed: 04/27/2016 04:36
 Instrument ID: CBNAMS5 GC Column: Rtxi-5Sil MS ID: 0.25 (mm)
 Lab File ID (Standard): x13331.D Heated Purge: (Y/N) N
 Calibration ID: 55341

		DCB		NPT		ANT	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		1105636	3.85	3583107	5.15	1790971	6.89
UPPER LIMIT		2211272	4.35	7166214	5.65	3581942	7.39
LOWER LIMIT		552818	3.35	1791554	4.65	895486	6.39
LAB SAMPLE ID		CLIENT SAMPLE ID					
MB 460-364798/1-A		1112235	3.85	4115978	5.14	2327327	6.89
LCS 460-364798/2-A		1224399	3.85	4297650	5.15	2226481	6.89
LCS 460-364798/3-A		1094121	3.85	3973162	5.14	2240548	6.89
460-112310-A-6-A MS		945340	3.85	2953126	5.15	1317327	6.89
460-112310-A-6-B MSD		887343	3.85	2595075	5.15	1176190	6.89

DCB = 1,4-Dichlorobenzene-d4

NPT = Naphthalene-d8

ANT = Acenaphthene-d10

Area Limit = 50%-200% of internal standard area

RT Limit = \pm 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 Edison Job No.: 460-112518-1
 SDG No.: _____
 Sample No.: CCVIS 460-364897/2 Date Analyzed: 04/27/2016 04:36
 Instrument ID: CBNAMS5 GC Column: Rtxi-5Sil MS ID: 0.25 (mm)
 Lab File ID (Standard): x13331.D Heated Purge: (Y/N) N
 Calibration ID: 55341

		PHN		CRY		PRY	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		2386863	8.34	1463712	10.95	1240001	12.67
UPPER LIMIT		4773726	8.84	2927424	11.45	2480002	13.17
LOWER LIMIT		1193432	7.84	731856	10.45	620001	12.17
LAB SAMPLE ID		CLIENT SAMPLE ID					
MB 460-364798/1-A		3349029	8.33	2088494	10.95	1670398	12.67
LCS 460-364798/2-A		3054645	8.34	2020614	10.95	1695399	12.67
LCS 460-364798/3-A		3159374	8.34	1978688	10.95	1619106	12.67
460-112310-A-6-A MS		1645474	8.34	1225655	10.96	1508306	12.68
460-112310-A-6-B MSD		1436664	8.34	1281166	10.96	1600868	12.69

PHN = Phenanthrene-d10
 CRY = Chrysene-d12
 PRY = Perylene-d12

Area Limit = 50%-200% of internal standard area
 RT Limit = \pm 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 Edison Job No.: 460-112518-1
 SDG No.: _____
 Sample No.: CCVIS 460-365067/2 Date Analyzed: 04/27/2016 17:29
 Instrument ID: CBNAMS5 GC Column: Rtxi-5Sil MS ID: 0.25 (mm)
 Lab File ID (Standard): x13362.D Heated Purge: (Y/N) N
 Calibration ID: 55341

	DCB		NPT		ANT	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD	993449	3.83	3251458	5.13	1651536	6.88
UPPER LIMIT	1986898	4.33	6502916	5.63	3303072	7.38
LOWER LIMIT	496725	3.33	1625729	4.63	825768	6.38
LAB SAMPLE ID	CLIENT SAMPLE ID					
460-112518-1	A3		1031216	3.83	3463469	5.12
					1747542	6.87

DCB = 1,4-Dichlorobenzene-d4

NPT = Naphthalene-d8

ANT = Acenaphthene-d10

Area Limit = 50%-200% of internal standard area

RT Limit = \pm 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 Edison Job No.: 460-112518-1
 SDG No.: _____
 Sample No.: CCVIS 460-365067/2 Date Analyzed: 04/27/2016 17:29
 Instrument ID: CBNAMS5 GC Column: Rtxi-5Sil MS ID: 0.25 (mm)
 Lab File ID (Standard): x13362.D Heated Purge: (Y/N) N
 Calibration ID: 55341

	PHN		CRY		PRY	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD	2170112	8.32	1382628	10.93	1173969	12.65
UPPER LIMIT	4340224	8.82	2765256	11.43	2347938	13.15
LOWER LIMIT	1085056	7.82	691314	10.43	586985	12.15
LAB SAMPLE ID	CLIENT SAMPLE ID					
460-112518-1	A3		2274891	8.32	1356410	10.93
					1241663	12.65

PHN = Phenanthrene-d10
 CRY = Chrysene-d12
 PRY = Perylene-d12

Area Limit = 50%-200% of internal standard area
 RT Limit = \pm 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: <u>TestAmerica Edison</u>	Job No.: <u>460-112518-1</u>
SDG No.: _____	
Client Sample ID: <u>A3</u>	Lab Sample ID: <u>460-112518-1</u>
Matrix: <u>Solid</u>	Lab File ID: <u>x13375.D</u>
Analysis Method: <u>8270D</u>	Date Collected: <u>04/18/2016 09:40</u>
Extract. Method: <u>3546</u>	Date Extracted: <u>04/26/2016 13:16</u>
Sample wt/vol: <u>15.0235(g)</u>	Date Analyzed: <u>04/27/2016 22:35</u>
Con. Extract Vol.: <u>1(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	Level: (low/med) <u>Low</u>
% Moisture: <u>5.6</u>	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>365067</u>	Units: <u>ug/Kg</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	1,1'-Biphenyl	350	U	350	30
95-94-3	1,2,4,5-Tetrachlorobenzene	350	U	350	26
108-60-1	2,2'-oxybis[1-chloropropane]	350	U	350	14
58-90-2	2,3,4,6-Tetrachlorophenol	350	U	350	33
95-95-4	2,4,5-Trichlorophenol	350	U	350	35
88-06-2	2,4,6-Trichlorophenol	140	U	140	9.9
120-83-2	2,4-Dichlorophenol	140	U	140	8.3
105-67-9	2,4-Dimethylphenol	350	U	350	77
51-28-5	2,4-Dinitrophenol	280	U	280	260
121-14-2	2,4-Dinitrotoluene	71	U	71	14
606-20-2	2,6-Dinitrotoluene	71	U	71	19
91-58-7	2-Chloronaphthalene	350	U	350	7.9
95-57-8	2-Chlorophenol	350	U	350	8.9
91-57-6	2-Methylnaphthalene	22	J	350	7.7
95-48-7	2-Methylphenol	350	U	350	15
88-74-4	2-Nitroaniline	350	U	350	12
88-75-5	2-Nitrophenol	350	U	350	12
91-94-1	3,3'-Dichlorobenzidine	140	U	140	39
99-09-2	3-Nitroaniline	350	U	350	10
534-52-1	4,6-Dinitro-2-methylphenol	280	U	280	93
101-55-3	4-Bromophenyl phenyl ether	350	U	350	11
59-50-7	4-Chloro-3-methylphenol	350	U	350	15
106-47-8	4-Chloroaniline	350	U	350	9.0
7005-72-3	4-Chlorophenyl phenyl ether	350	U	350	10
106-44-5	4-Methylphenol	350	U	350	9.5
100-01-6	4-Nitroaniline	350	U	350	13
100-02-7	4-Nitrophenol	710	U	710	170
83-32-9	Acenaphthene	62	J	350	8.5
208-96-8	Acenaphthylene	41	J	350	9.0
98-86-2	Acetophenone	350	U	350	7.6
120-12-7	Anthracene	250	J	350	33
1912-24-9	Atrazine	140	U	140	16
100-52-7	Benzaldehyde	350	U	350	27
56-55-3	Benzo[a]anthracene	740		35	29

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Edison</u>	Job No.: <u>460-112518-1</u>
SDG No.: _____	
Client Sample ID: <u>A3</u>	Lab Sample ID: <u>460-112518-1</u>
Matrix: <u>Solid</u>	Lab File ID: <u>x13375.D</u>
Analysis Method: <u>8270D</u>	Date Collected: <u>04/18/2016 09:40</u>
Extract. Method: <u>3546</u>	Date Extracted: <u>04/26/2016 13:16</u>
Sample wt/vol: <u>15.0235(g)</u>	Date Analyzed: <u>04/27/2016 22:35</u>
Con. Extract Vol.: <u>1(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	Level: (low/med) <u>Low</u>
% Moisture: <u>5.6</u>	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>365067</u>	Units: <u>ug/Kg</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
50-32-8	Benzo[a]pyrene	710		35	11
205-99-2	Benzo[b]fluoranthene	920		35	14
191-24-2	Benzo[g,h,i]perylene	530		350	20
207-08-9	Benzo[k]fluoranthene	370		35	15
111-91-1	Bis(2-chloroethoxy)methane	350	U	350	11
111-44-4	Bis(2-chloroethyl)ether	35	U	35	8.3
117-81-7	Bis(2-ethylhexyl) phthalate	350	U	350	14
85-68-7	Butyl benzyl phthalate	350	U	350	11
105-60-2	Caprolactam	350	U	350	25
86-74-8	Carbazole	88	J	350	8.7
218-01-9	Chrysene	760		350	9.5
53-70-3	Dibenz(a,h)anthracene	130		35	18
132-64-9	Dibenzofuran	72	J	350	11
84-66-2	Diethyl phthalate	350	U	350	9.9
131-11-3	Dimethyl phthalate	350	U	350	10
84-74-2	Di-n-butyl phthalate	350	U	350	10
117-84-0	Di-n-octyl phthalate	350	U	350	18
206-44-0	Fluoranthene	1700		350	10
86-73-7	Fluorene	130	J	350	7.6
118-74-1	Hexachlorobenzene	35	U	35	14
87-68-3	Hexachlorobutadiene	71	U	71	9.8
77-47-4	Hexachlorocyclopentadiene	350	U	350	22
67-72-1	Hexachloroethane	35	U	35	13
193-39-5	Indeno[1,2,3-cd]pyrene	640		35	23
78-59-1	Isophorone	140	U	140	7.5
91-20-3	Naphthalene	29	J	350	8.9
98-95-3	Nitrobenzene	35	U	35	11
621-64-7	N-Nitrosodi-n-propylamine	35	U	35	12
86-30-6	N-Nitrosodiphenylamine	350	U	350	32
87-86-5	Pentachlorophenol	280	U	280	42
85-01-8	Phenanthrene	1300		350	9.3
108-95-2	Phenol	350	U	350	11
129-00-0	Pyrene	1500		350	16

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Edison</u>	Job No.: <u>460-112518-1</u>
SDG No.: _____	
Client Sample ID: <u>A3</u>	Lab Sample ID: <u>460-112518-1</u>
Matrix: <u>Solid</u>	Lab File ID: <u>x13375.D</u>
Analysis Method: <u>8270D</u>	Date Collected: <u>04/18/2016 09:40</u>
Extract. Method: <u>3546</u>	Date Extracted: <u>04/26/2016 13:16</u>
Sample wt/vol: <u>15.0235(g)</u>	Date Analyzed: <u>04/27/2016 22:35</u>
Con. Extract Vol.: <u>1(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	Level: (low/med) <u>Low</u>
% Moisture: <u>5.6</u>	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>365067</u>	Units: <u>ug/Kg</u>

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol (Surr)	57		10-95
321-60-8	2-Fluorobiphenyl	65		27-84
367-12-4	2-Fluorophenol (Surr)	53		21-84
4165-60-0	Nitrobenzene-d5 (Surr)	58		28-92
4165-62-2	Phenol-d5 (Surr)	53		22-88
1718-51-0	Terphenyl-d14 (Surr)	75		16-114

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS5\20160427-40365.b\13375.D
 Lims ID: 460-112518-A-1-B
 Client ID: A3
 Sample Type: Client
 Inject. Date: 27-Apr-2016 22:35:30 ALS Bottle#: 15 Worklist Smp#: 15
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 460-0040365-015
 Operator ID: Instrument ID: CBNAMS5
 Method: \\ChromNA\Edison\ChromData\CBNAMS5\20160427-40365.b\8270_5R.m
 Limit Group: SV 8270D ICAL
 Last Update: 28-Apr-2016 14:20:26 Calib Date: 18-Apr-2016 15:17:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS5\20160418-39964.b\12973.D
 Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK029

First Level Reviewer: szczecha

Date: 28-Apr-2016 14:21:15

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
\$ 4 2-Fluorophenol	112	2.616	2.581	0.035	95	916089	26.3	
\$ 6 Phenol-d5	99	3.499	3.516	-0.017	87	1059981	26.6	
* 14 1,4-Dichlorobenzene-d4	152	3.828	3.828	0.000	96	1031216	40.0	
\$ 26 Nitrobenzene-d5	82	4.393	4.410	-0.017	93	982370	29.2	
* 38 Naphthalene-d8	136	5.122	5.122	0.000	99	3463469	40.0	
39 Naphthalene	128	5.140	5.151	-0.011	99	36357	0.4054	
44 2-Methylnaphthalene	142	5.840	5.851	-0.011	87	18674	0.3070	
\$ 51 2-Fluorobiphenyl	172	6.222	6.228	-0.006	98	2239726	32.7	
61 Acenaphthylene	152	6.722	6.734	-0.012	98	43342	0.5858	
* 65 Acenaphthene-d10	164	6.869	6.869	0.000	91	1747542	40.0	
67 Acenaphthene	154	6.898	6.904	-0.006	91	39490	0.8728	
71 Dibenzofuran	168	7.069	7.081	-0.012	95	69499	1.02	
75 Fluorene	166	7.404	7.410	-0.006	95	94976	1.90	
\$ 80 2,4,6-Tribromophenol	330	7.639	7.651	-0.012	92	278239	28.7	
* 88 Phenanthrene-d10	188	8.316	8.316	0.000	97	2274891	40.0	
89 Phenanthrene	178	8.339	8.345	-0.006	96	1142262	18.2	
90 Anthracene	178	8.386	8.392	-0.006	99	223115	3.56	
91 Carbazole	167	8.557	8.563	-0.006	96	60747	1.24	
93 Fluoranthene	202	9.498	9.498	0.000	99	1299766	23.7	
95 Pyrene	202	9.710	9.716	-0.006	98	1085798	21.2	
\$ 96 Terphenyl-d14	244	9.892	9.892	0.000	98	1455691	37.6	
97 Butyl benzyl phthalate	149	10.386	10.392	-0.006	55	1475	0.0818	
101 Benzo[a]anthracene	228	10.916	10.921	-0.005	97	421723	10.5	
* 102 Chrysene-d12	240	10.927	10.927	0.000	98	1356410	40.0	
103 Chrysene	228	10.957	10.963	-0.006	100	384656	10.8	
104 Bis(2-ethylhexyl) phthalat	149	11.010	11.016	-0.006	37	2868	0.1168	
106 Benzo[b]fluoranthene	252	12.174	12.174	0.000	97	460754	13.1	
107 Benzo[k]fluoranthene	252	12.204	12.210	-0.006	96	199616	5.28	
108 Benzo[a]pyrene	252	12.569	12.574	-0.005	98	321771	10.1	
* 109 Perylene-d12	264	12.645	12.645	0.000	99	1241663	40.0	
110 Indeno[1,2,3-cd]pyrene	276	13.998	14.004	-0.006	96	237967	9.02	
111 Dibenz(a,h)anthracene	278	14.027	14.039	-0.012	94	50856	1.86	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
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112 Benzo[g,h,i]perylene

276

14.321

14.333

-0.012

96

221994

7.54

Reagents:

SM_ISTD_00105

Amount Added: 20.00

Units: uL

Run Reagent

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CBNAMS5\\20160427-40365.b\\x13375.D

Injection Date: 27-Apr-2016 22:35:30

Instrument ID: CBNAMS5

Operator ID:

Lims ID: 460-112518-A-1-B

Lab Sample ID: 460-112518-1

Worklist Smp#: 15

Client ID: A3

Injection Vol: 1.0 ul

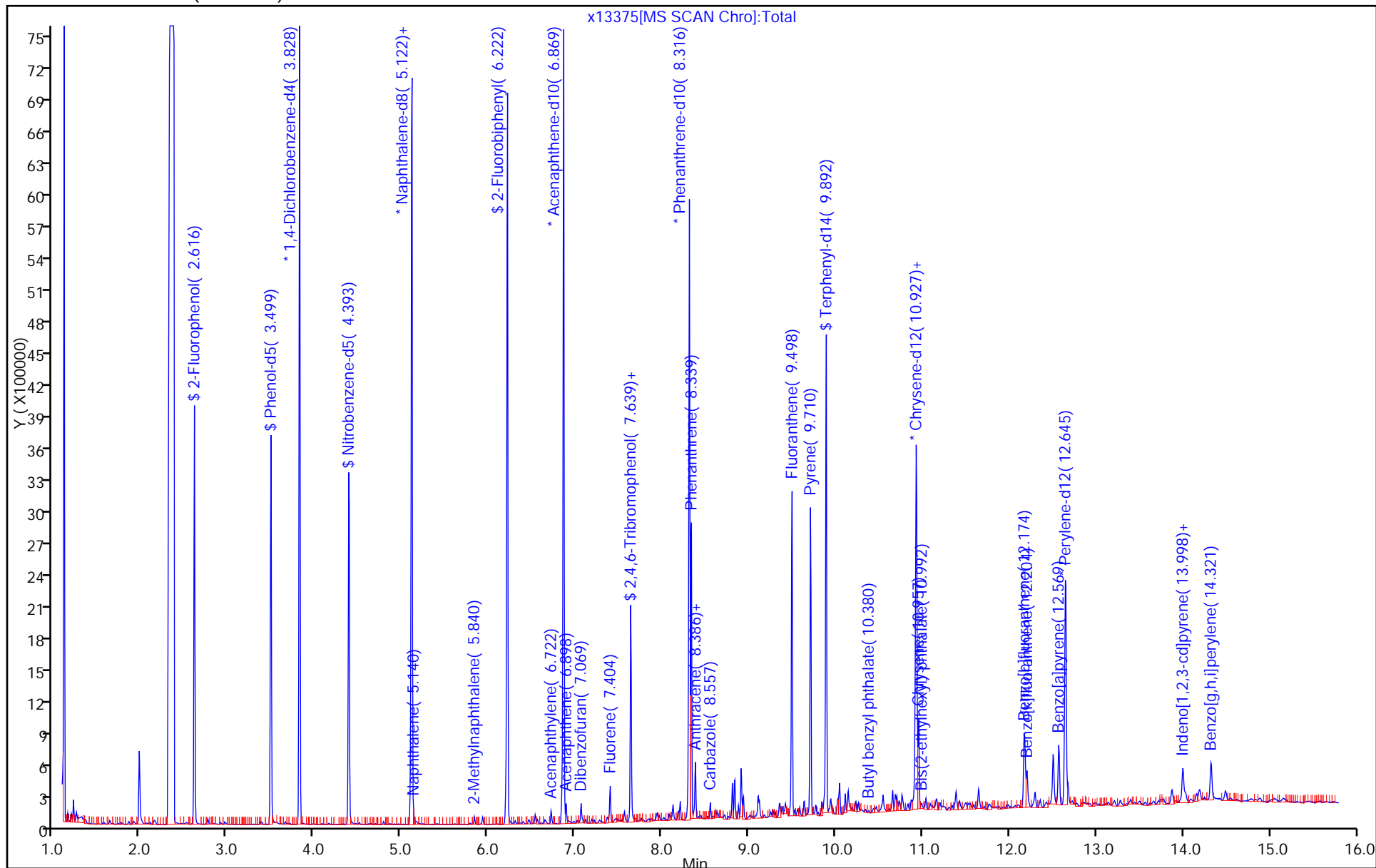
Dil. Factor: 1.0000

ALS Bottle#: 15

Method: 8270_5R

Limit Group: SV 8270D ICAL

Column: Rtxi-5Sil MS (0.25 mm)



TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS5\20160427-40365.b\13375.D

Injection Date: 27-Apr-2016 22:35:30

Instrument ID: CBNAMS5

Lims ID: 460-112518-A-1-B

Lab Sample ID: 460-112518-1

Client ID: A3

Operator ID:

ALS Bottle#:

15

Worklist Smp#:

15

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: 8270_5R

Limit Group:

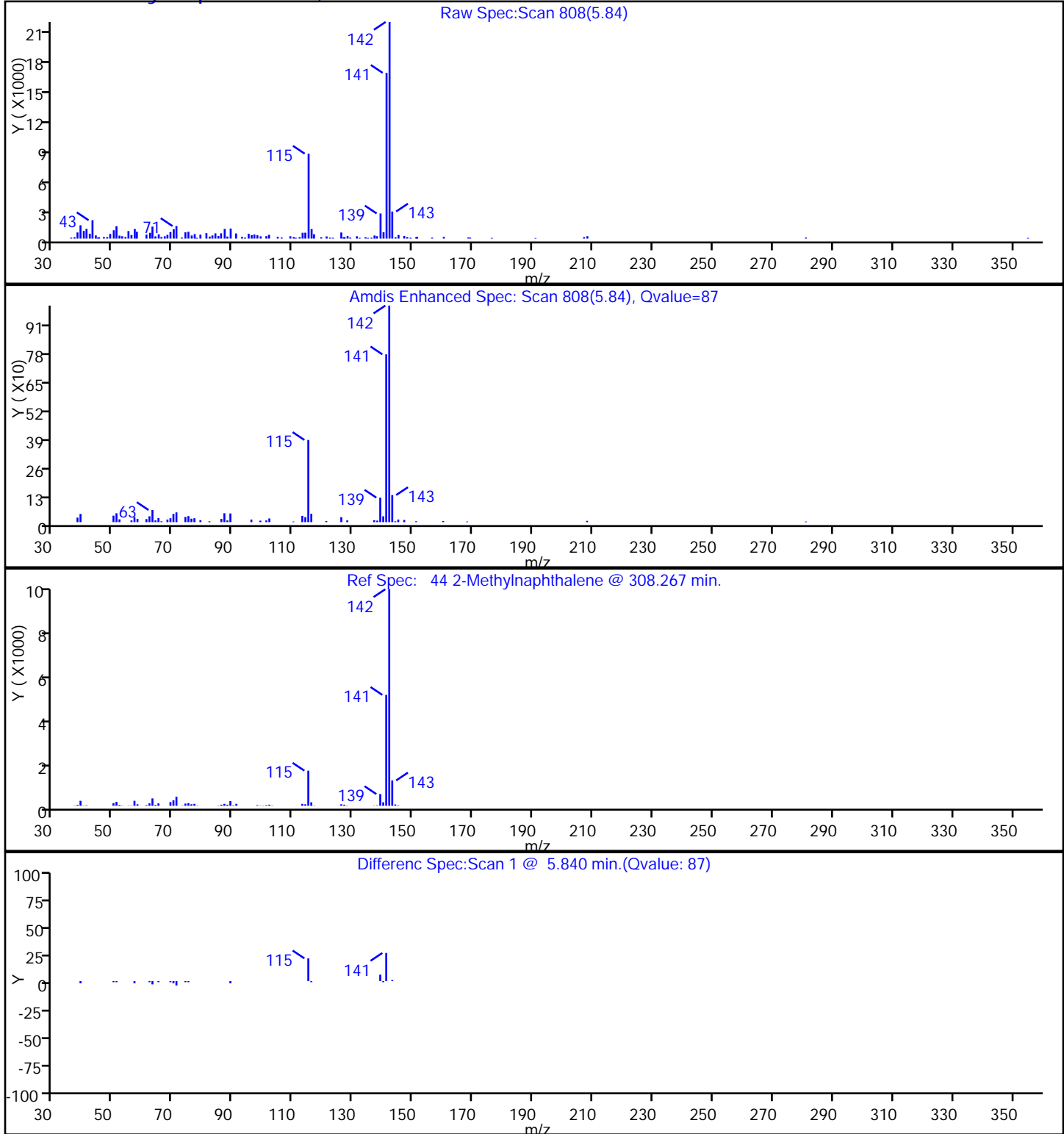
SV 8270D ICAL

Column: Rtxi-5Sil MS (0.25 mm)

Detector

MS SCAN

44 2-Methylnaphthalene, CAS: 91-57-6



TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS5\20160427-40365.b\13375.D

Injection Date: 27-Apr-2016 22:35:30

Instrument ID: CBNAMS5

Lims ID: 460-112518-A-1-B

Lab Sample ID: 460-112518-1

Client ID: A3

Operator ID:

ALS Bottle#:

15

Worklist Smp#: 15

Injection Vol: 1.0 ul

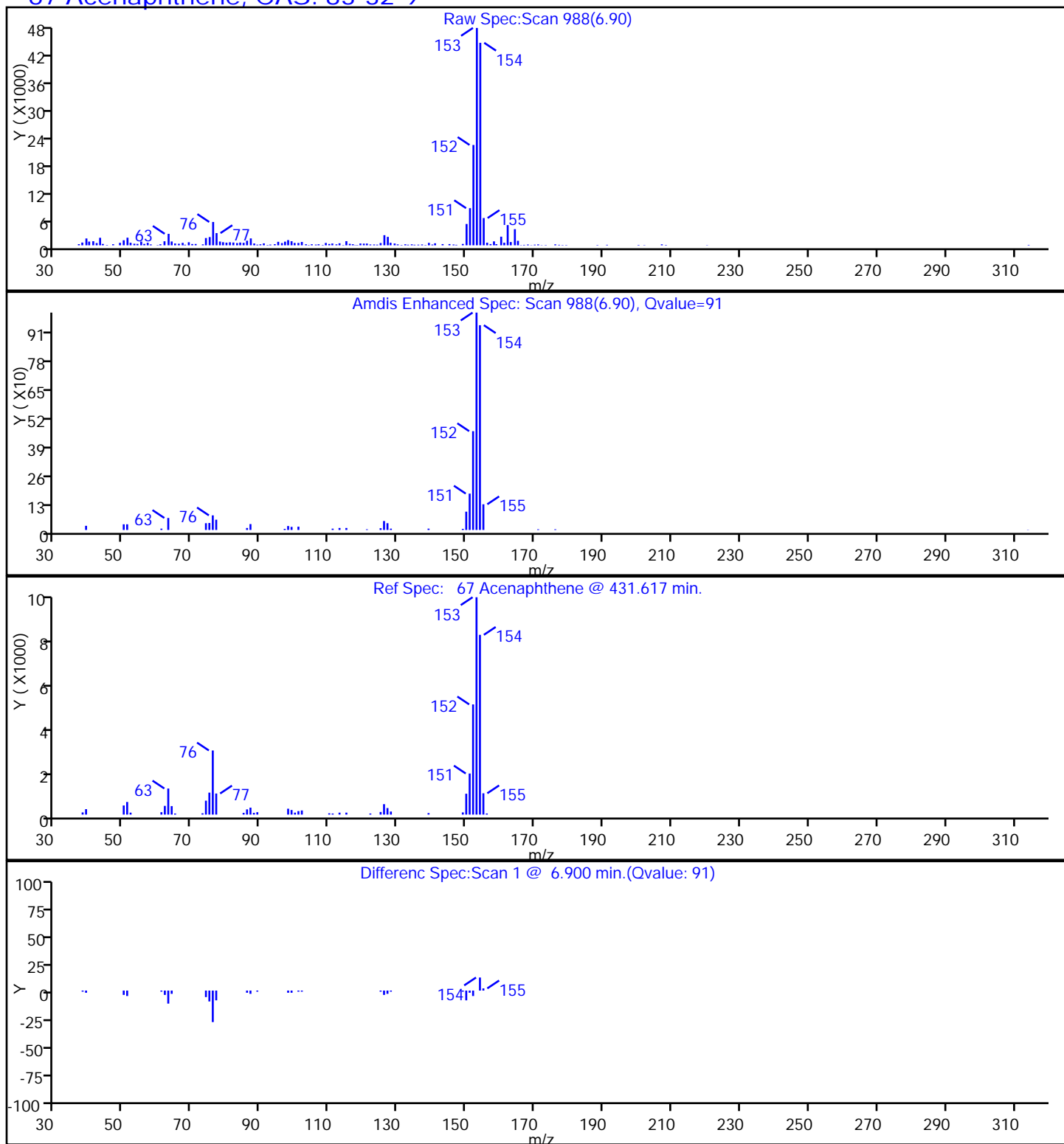
Dil. Factor: 1.0000

Method: 8270_5R

Limit Group: SV 8270D ICAL

Column: Rtxi-5Sil MS (0.25 mm)

Detector: MS SCAN

67 Acenaphthene, CAS: 83-32-9

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS5\20160427-40365.b\13375.D

Injection Date: 27-Apr-2016 22:35:30

Instrument ID: CBNAMS5

Lims ID: 460-112518-A-1-B

Lab Sample ID: 460-112518-1

Client ID: A3

Operator ID:

ALS Bottle#:

15

Worklist Smp#:

15

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: 8270_5R

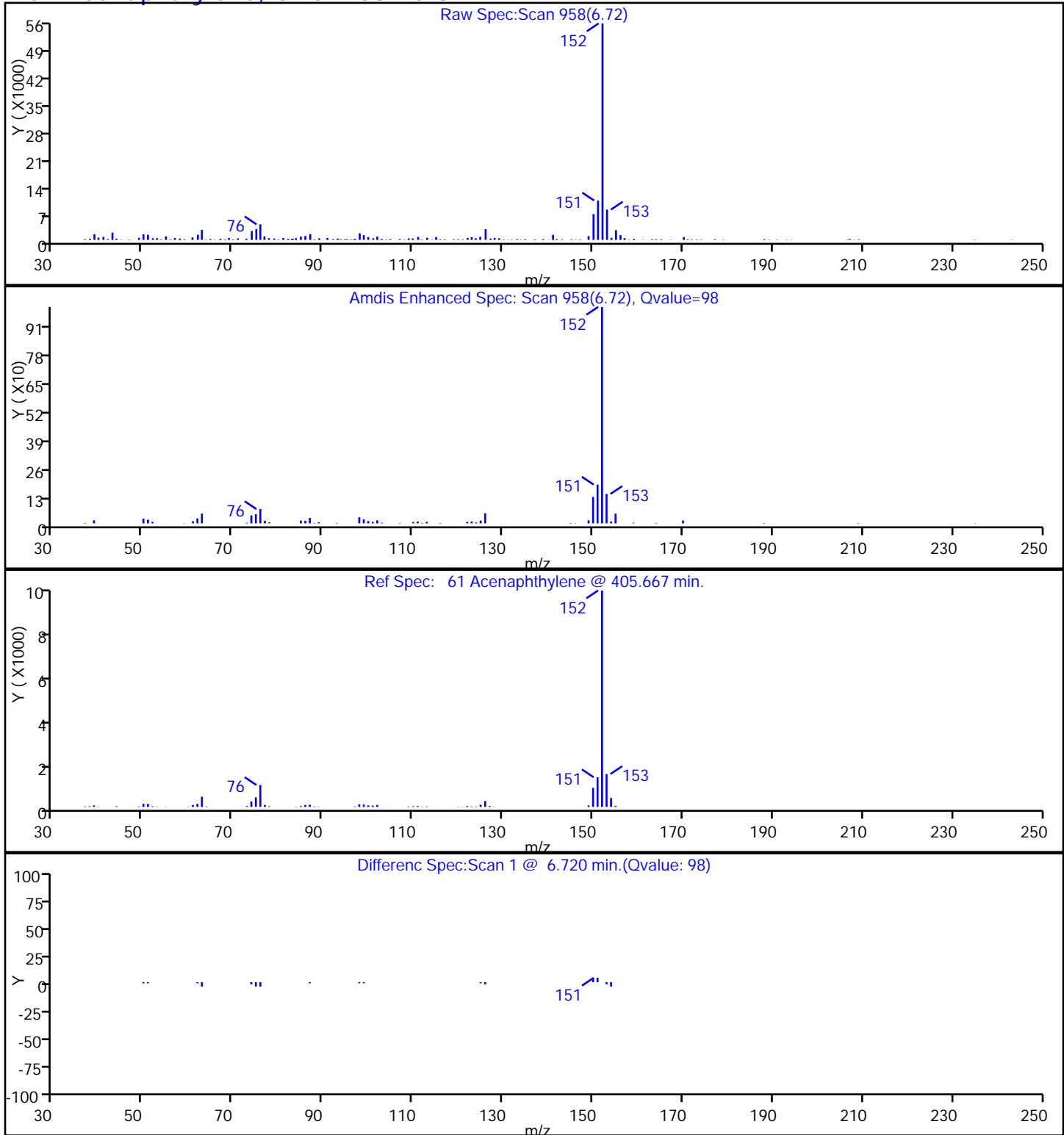
Limit Group:

SV 8270D ICAL

Column: Rtxi-5Sil MS (0.25 mm)

Detector

MS SCAN

61 Acenaphthylene, CAS: 208-96-8

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS5\20160427-40365.b\13375.D

Injection Date: 27-Apr-2016 22:35:30

Instrument ID: CBNAMS5

Lims ID: 460-112518-A-1-B

Lab Sample ID: 460-112518-1

Client ID: A3

Operator ID:

ALS Bottle#:

15

Worklist Smp#:

15

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: 8270_5R

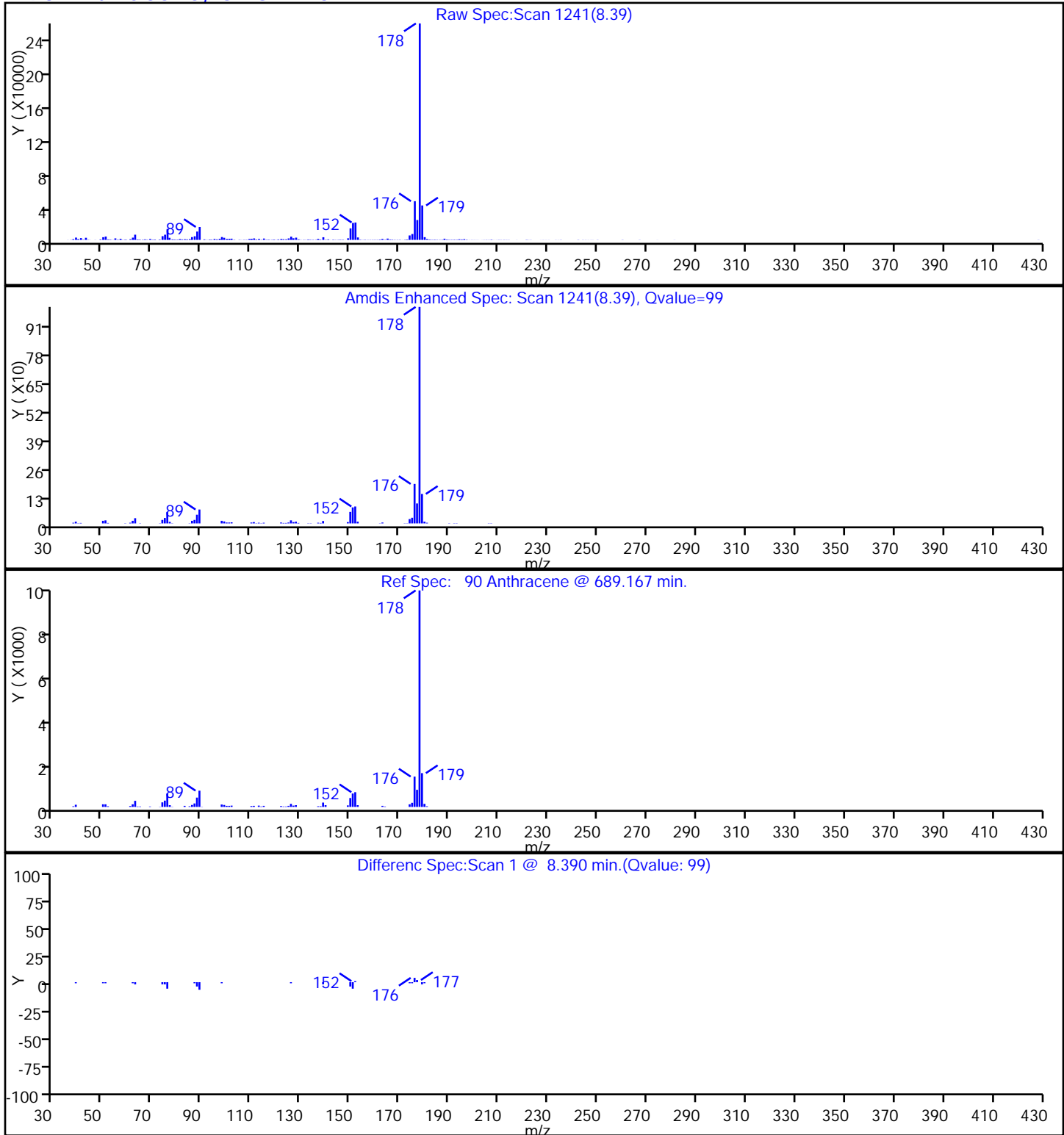
Limit Group:

SV 8270D ICAL

Column: Rtxi-5Sil MS (0.25 mm)

Detector

MS SCAN

90 Anthracene, CAS: 120-12-7

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS5\20160427-40365.b\13375.D

Injection Date: 27-Apr-2016 22:35:30

Instrument ID: CBNAMS5

Lims ID: 460-112518-A-1-B

Lab Sample ID: 460-112518-1

Client ID: A3

Operator ID:

ALS Bottle#:

15

Worklist Smp#:

15

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: 8270_5R

Limit Group:

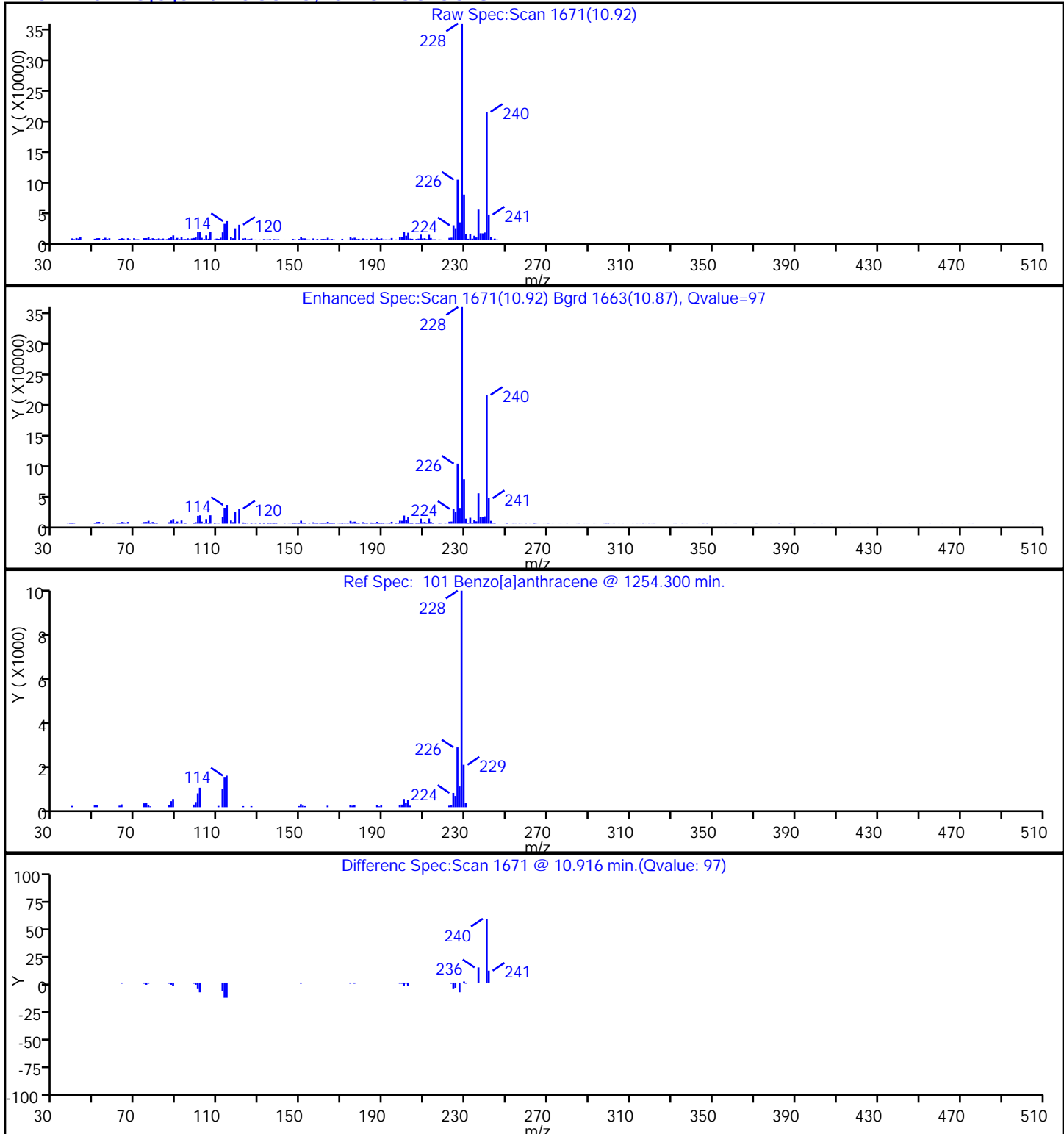
SV 8270D ICAL

Column: Rtxi-5Sil MS (0.25 mm)

Detector

MS SCAN

101 Benzo[a]anthracene, CAS: 56-55-3



TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS5\20160427-40365.b\13375.D

Injection Date: 27-Apr-2016 22:35:30

Instrument ID: CBNAMS5

Lims ID: 460-112518-A-1-B

Lab Sample ID: 460-112518-1

Client ID: A3

Operator ID:

ALS Bottle#:

15

Worklist Smp#:

15

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: 8270_5R

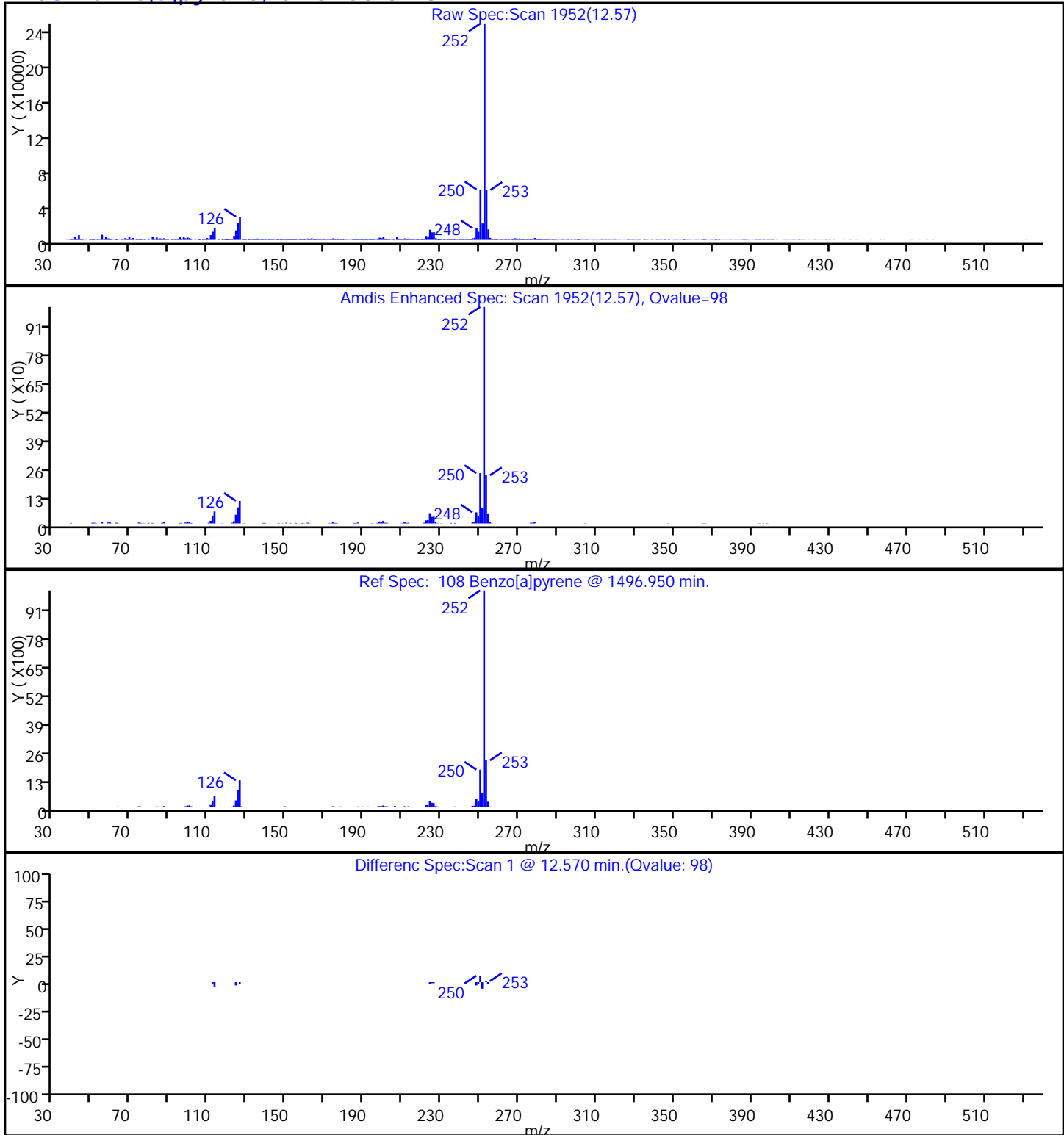
Limit Group:

SV 8270D ICAL

Column: Rtxi-5Sil MS (0.25 mm)

Detector

MS SCAN

108 Benzo[a]pyrene, CAS: 50-32-8

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS5\20160427-40365.b\13375.D

Injection Date: 27-Apr-2016 22:35:30

Instrument ID: CBNAMS5

Lims ID: 460-112518-A-1-B

Lab Sample ID: 460-112518-1

Client ID: A3

Operator ID:

ALS Bottle#:

15

Worklist Smp#:

15

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: 8270_5R

Limit Group:

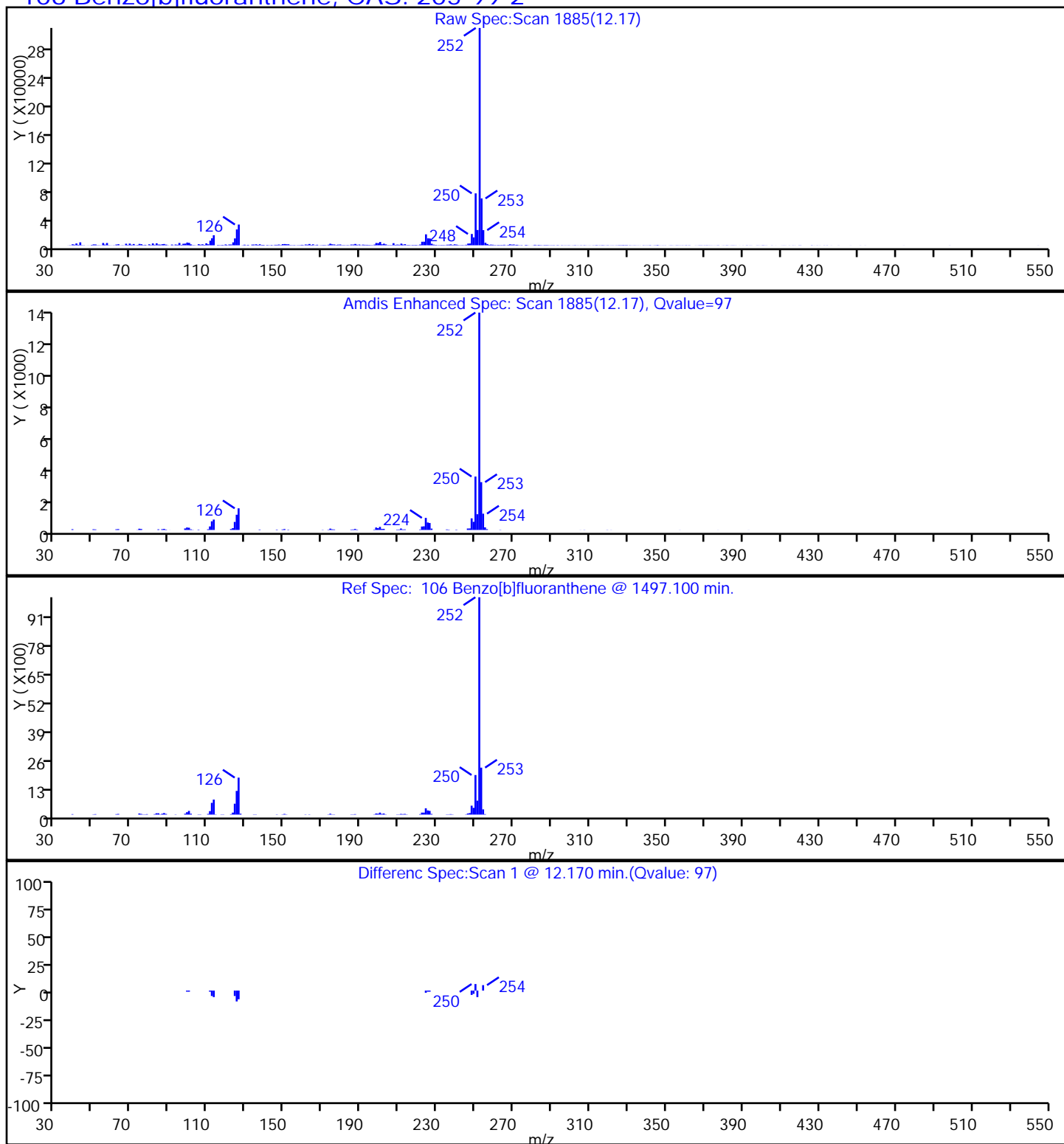
SV 8270D ICAL

Column: Rtxi-5Sil MS (0.25 mm)

Detector

MS SCAN

106 Benzo[b]fluoranthene, CAS: 205-99-2



TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS5\20160427-40365.b\13375.D

Injection Date: 27-Apr-2016 22:35:30

Instrument ID: CBNAMS5

Lims ID: 460-112518-A-1-B

Lab Sample ID: 460-112518-1

Client ID: A3

Operator ID:

ALS Bottle#: 15 Worklist Smp#: 15

Injection Vol: 1.0 ul

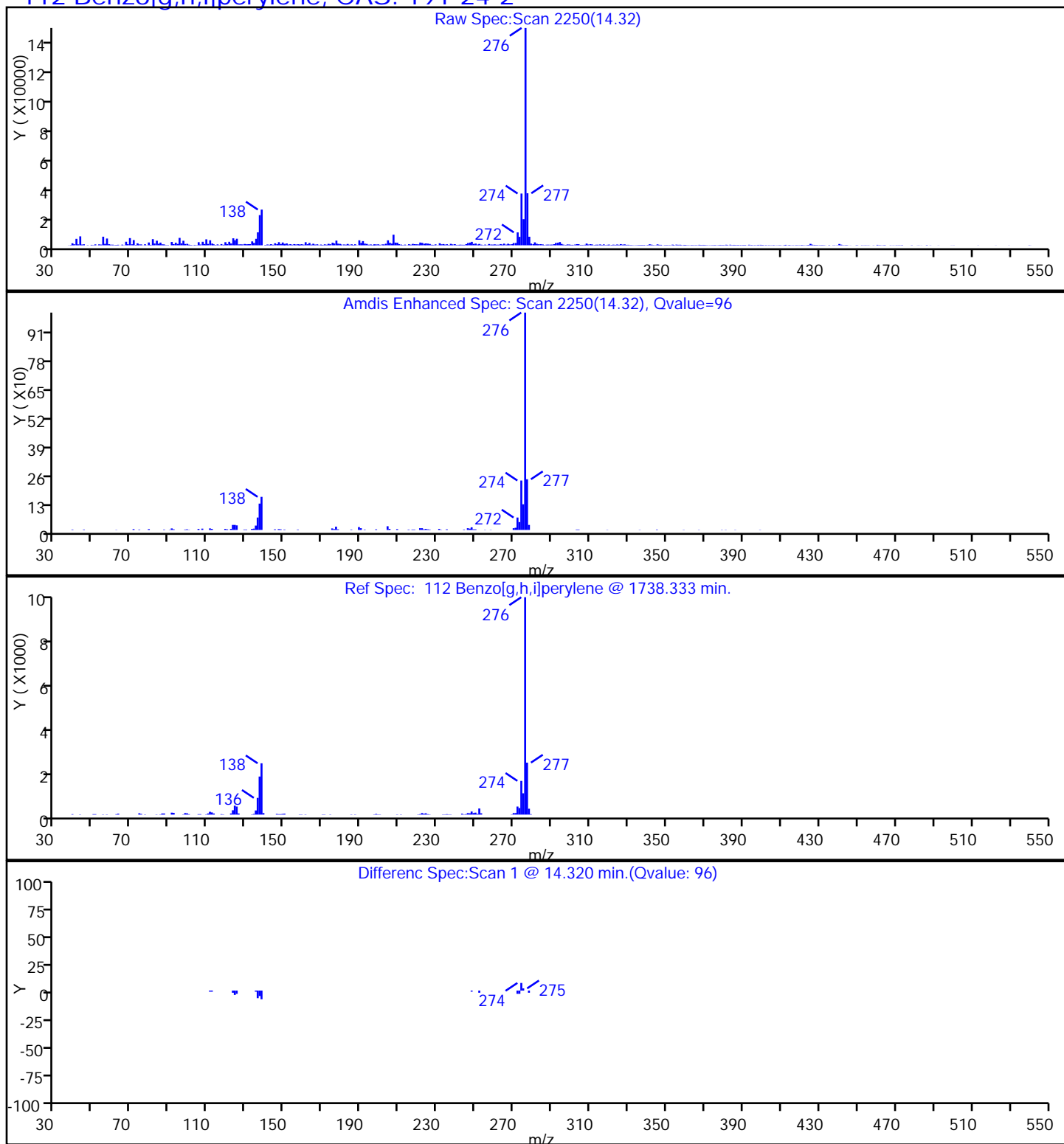
Dil. Factor: 1.0000

Method: 8270_5R

Limit Group: SV 8270D ICAL

Column: Rtxi-5Sil MS (0.25 mm)

Detector: MS SCAN

112 Benzo[g,h,i]perylene, CAS: 191-24-2

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS5\20160427-40365.b\13375.D

Injection Date: 27-Apr-2016 22:35:30

Instrument ID: CBNAMS5

Lims ID: 460-112518-A-1-B

Lab Sample ID: 460-112518-1

Client ID: A3

Operator ID:

ALS Bottle#:

15

Worklist Smp#:

15

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: 8270_5R

Limit Group:

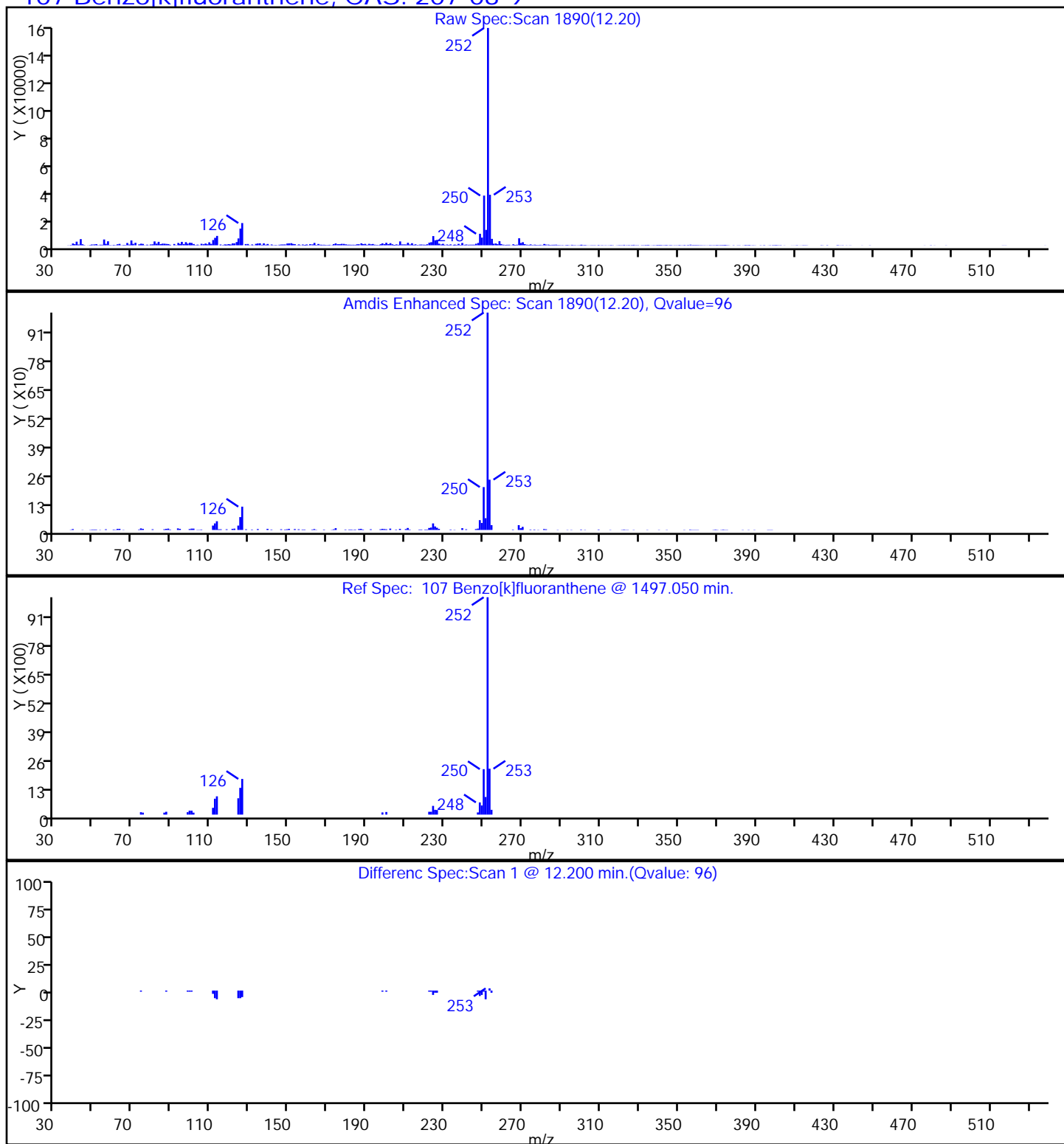
SV 8270D ICAL

Column: Rtxi-5Sil MS (0.25 mm)

Detector

MS SCAN

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



TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS5\20160427-40365.b\13375.D

Injection Date: 27-Apr-2016 22:35:30

Instrument ID: CBNAMS5

Lims ID: 460-112518-A-1-B

Lab Sample ID: 460-112518-1

Client ID: A3

Operator ID:

ALS Bottle#: 15 Worklist Smp#: 15

Injection Vol: 1.0 ul

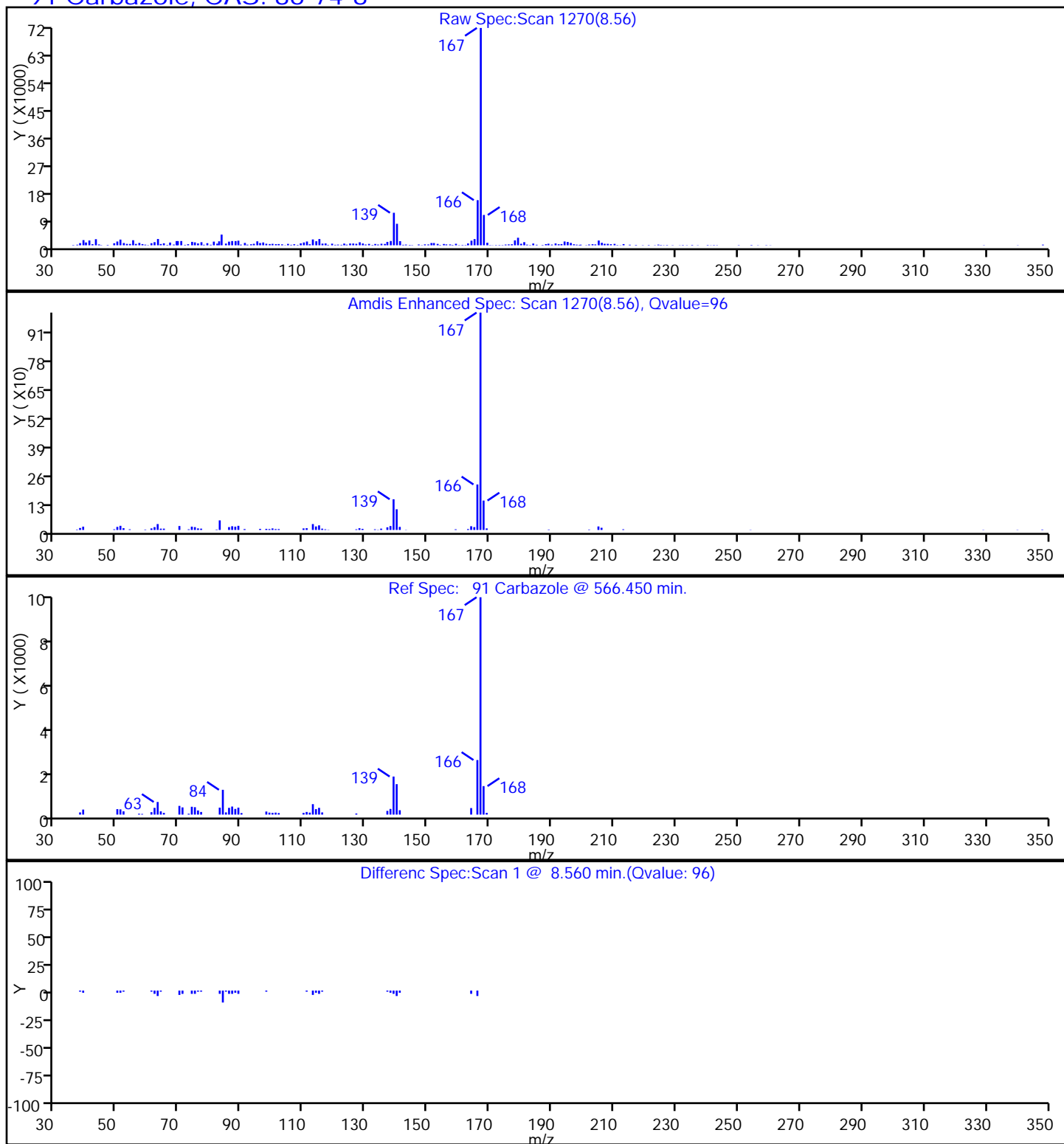
Dil. Factor: 1.0000

Method: 8270_5R

Limit Group: SV 8270D ICAL

Column: Rtxi-5Sil MS (0.25 mm)

Detector: MS SCAN

91 Carbazole, CAS: 86-74-8

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS5\20160427-40365.b\13375.D

Injection Date: 27-Apr-2016 22:35:30

Instrument ID: CBNAMS5

Lims ID: 460-112518-A-1-B

Lab Sample ID: 460-112518-1

Client ID: A3

Operator ID:

ALS Bottle#:

15

Worklist Smp#:

15

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: 8270_5R

Limit Group:

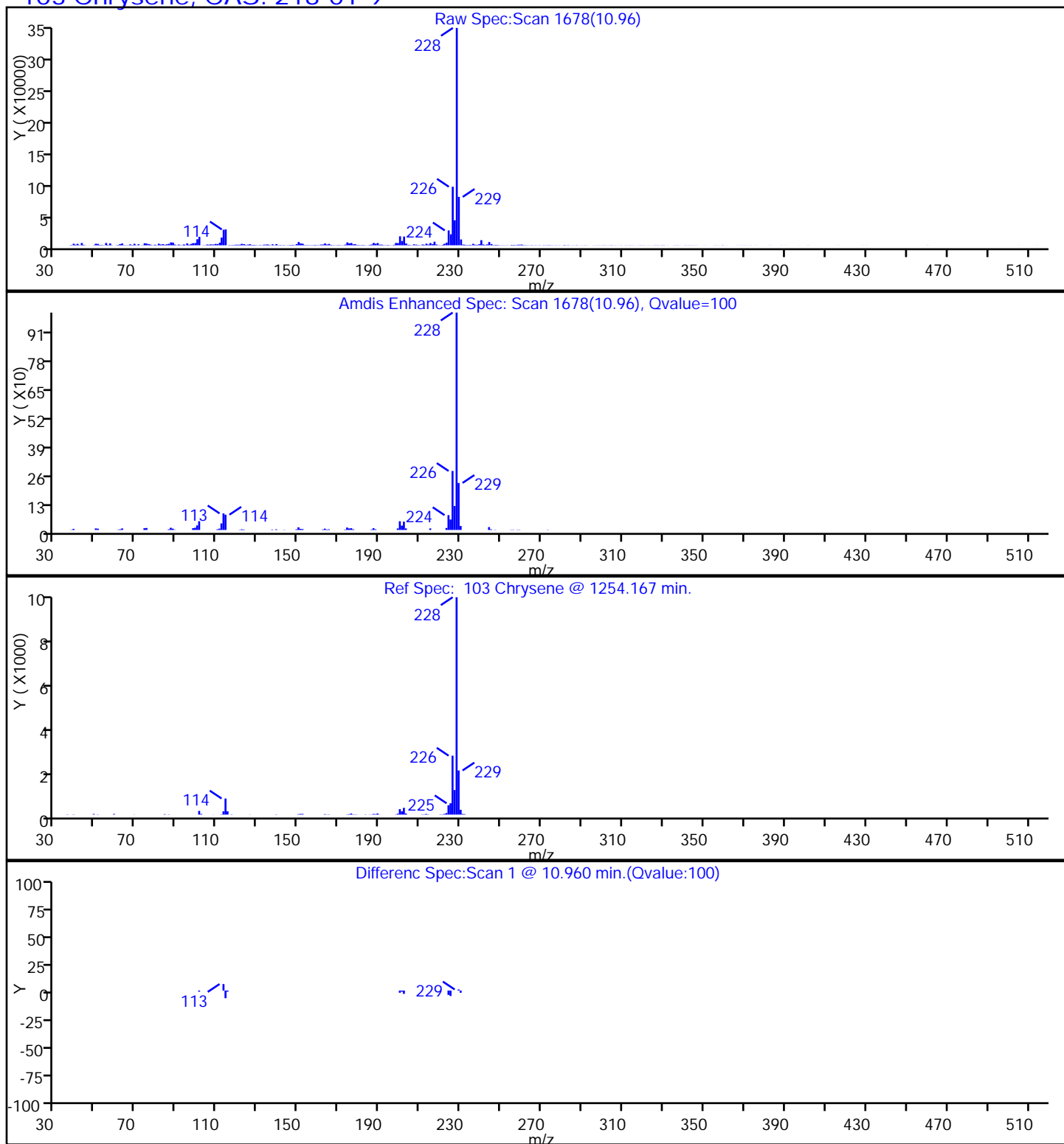
SV 8270D ICAL

Column: Rtxi-5Sil MS (0.25 mm)

Detector

MS SCAN

103 Chrysene, CAS: 218-01-9



TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CBNAMS5\\20160427-40365.b\\x13375.D

Injection Date: 27-Apr-2016 22:35:30

Instrument ID: CBNAMS5

Lims ID: 460-112518-A-1-B

Lab Sample ID: 460-112518-1

Client ID: A3

Operator ID:

ALS Bottle#:

15

Worklist Smp#:

15

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: 8270_5R

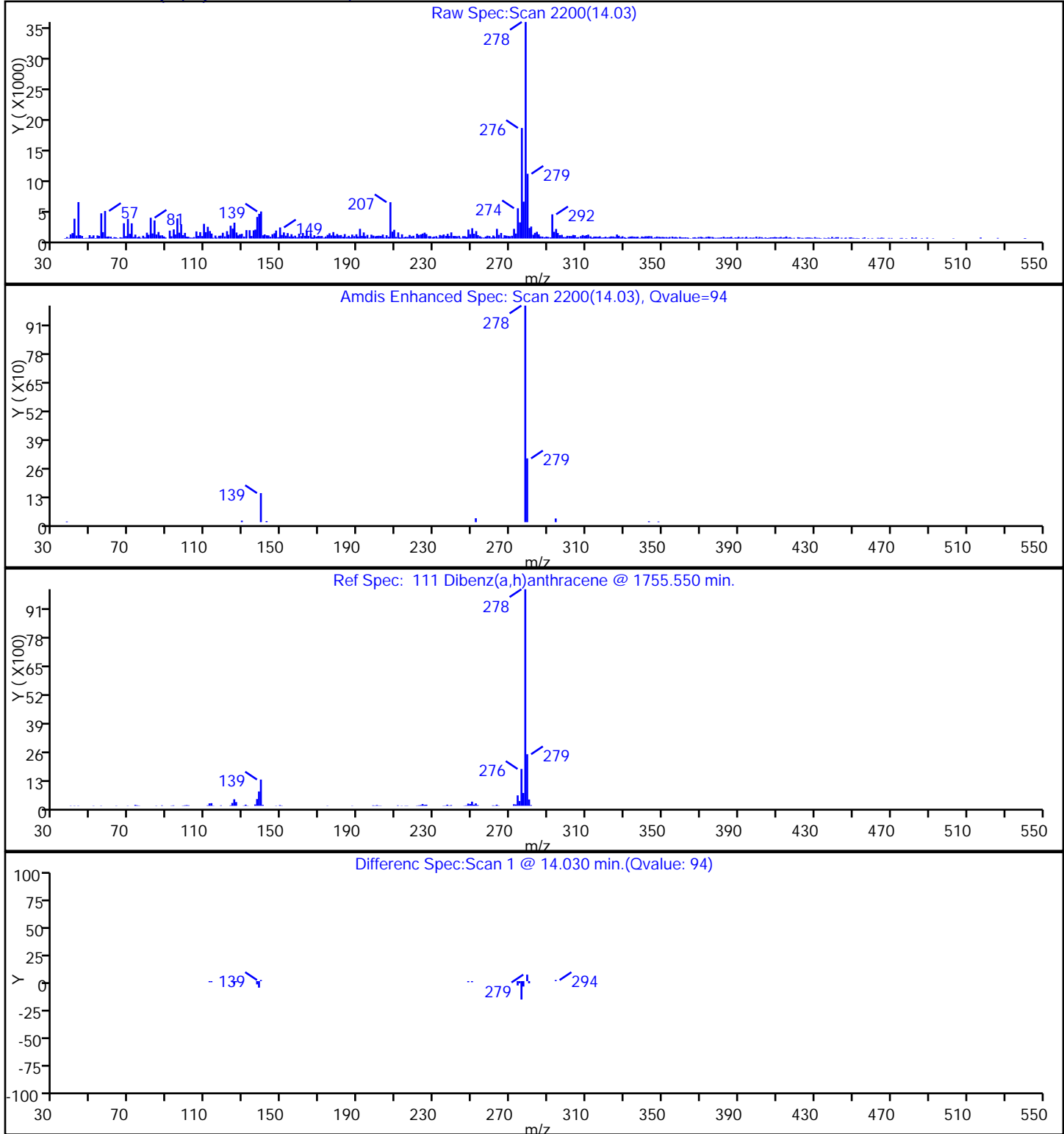
Limit Group:

SV 8270D ICAL

Column: Rtxi-5Sil MS (0.25 mm)

Detector

MS SCAN

111 Dibenz(a,h)anthracene, CAS: 53-70-3

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS5\20160427-40365.b\13375.D

Injection Date: 27-Apr-2016 22:35:30

Instrument ID: CBNAMS5

Lims ID: 460-112518-A-1-B

Lab Sample ID: 460-112518-1

Client ID: A3

Operator ID:

ALS Bottle#: 15 Worklist Smp#: 15

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

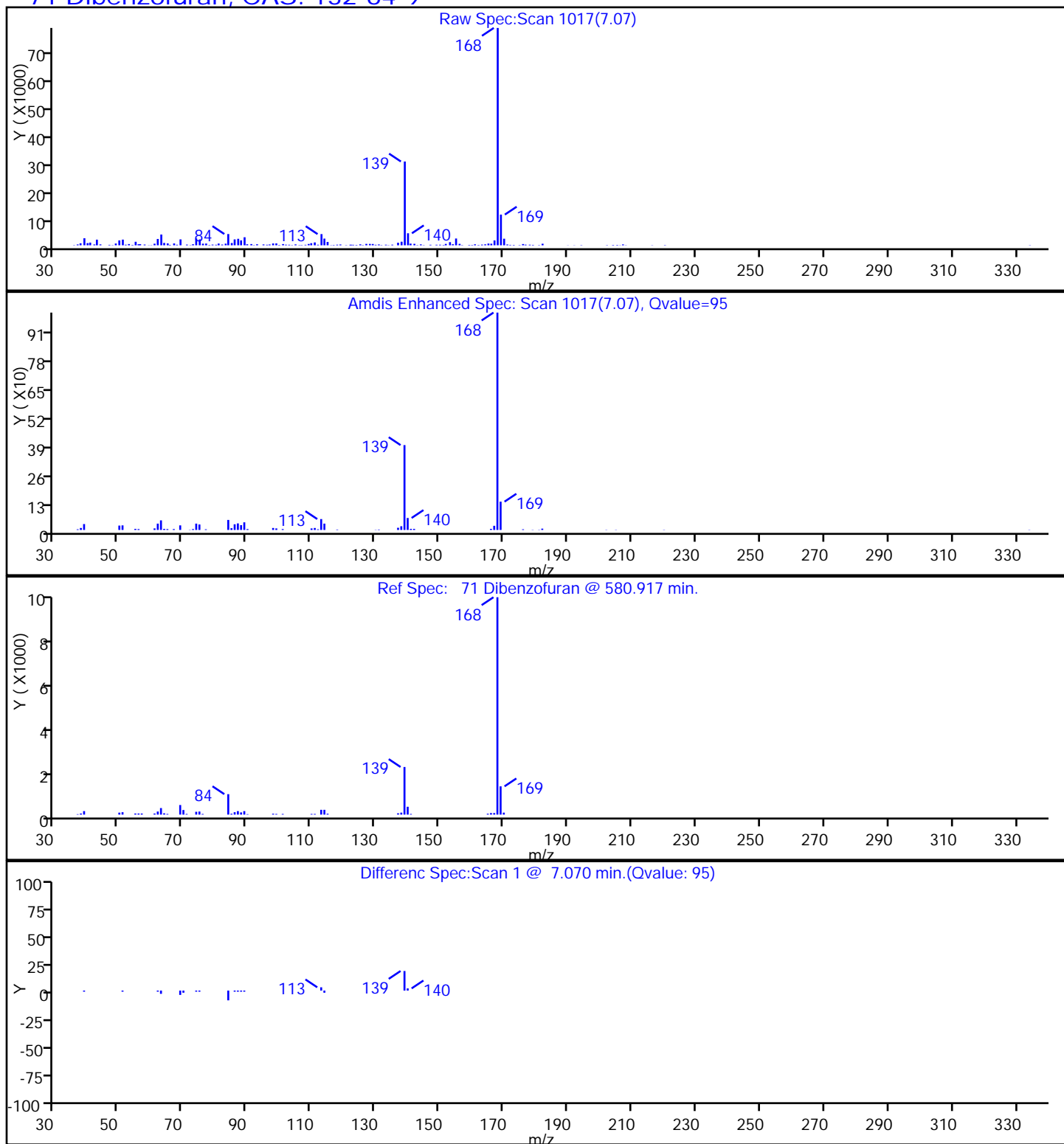
Method: 8270_5R

Limit Group: SV 8270D ICAL

Column: Rtxi-5Sil MS (0.25 mm)

Detector: MS SCAN

71 Dibenzofuran, CAS: 132-64-9



TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS5\20160427-40365.b\13375.D

Injection Date: 27-Apr-2016 22:35:30

Instrument ID: CBNAMS5

Lims ID: 460-112518-A-1-B

Lab Sample ID: 460-112518-1

Client ID: A3

Operator ID:

ALS Bottle#:

15

Worklist Smp#:

15

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: 8270_5R

Limit Group:

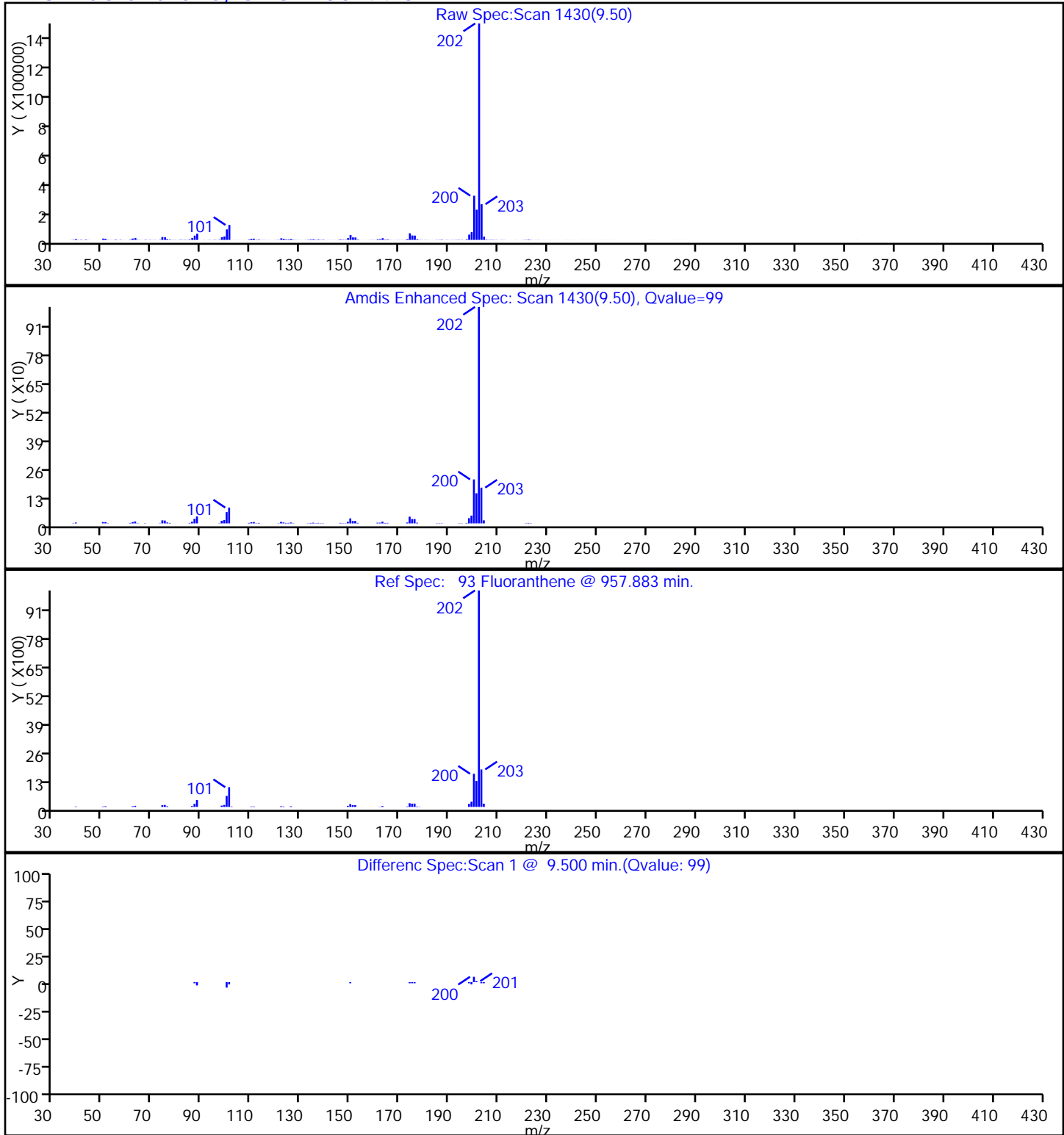
SV 8270D ICAL

Column: Rtxi-5Sil MS (0.25 mm)

Detector

MS SCAN

93 Fluoranthene, CAS: 206-44-0



TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS5\20160427-40365.b\13375.D

Injection Date: 27-Apr-2016 22:35:30

Instrument ID: CBNAMS5

Lims ID: 460-112518-A-1-B

Lab Sample ID: 460-112518-1

Client ID: A3

Operator ID:

ALS Bottle#:

15

Worklist Smp#:

15

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: 8270_5R

Limit Group:

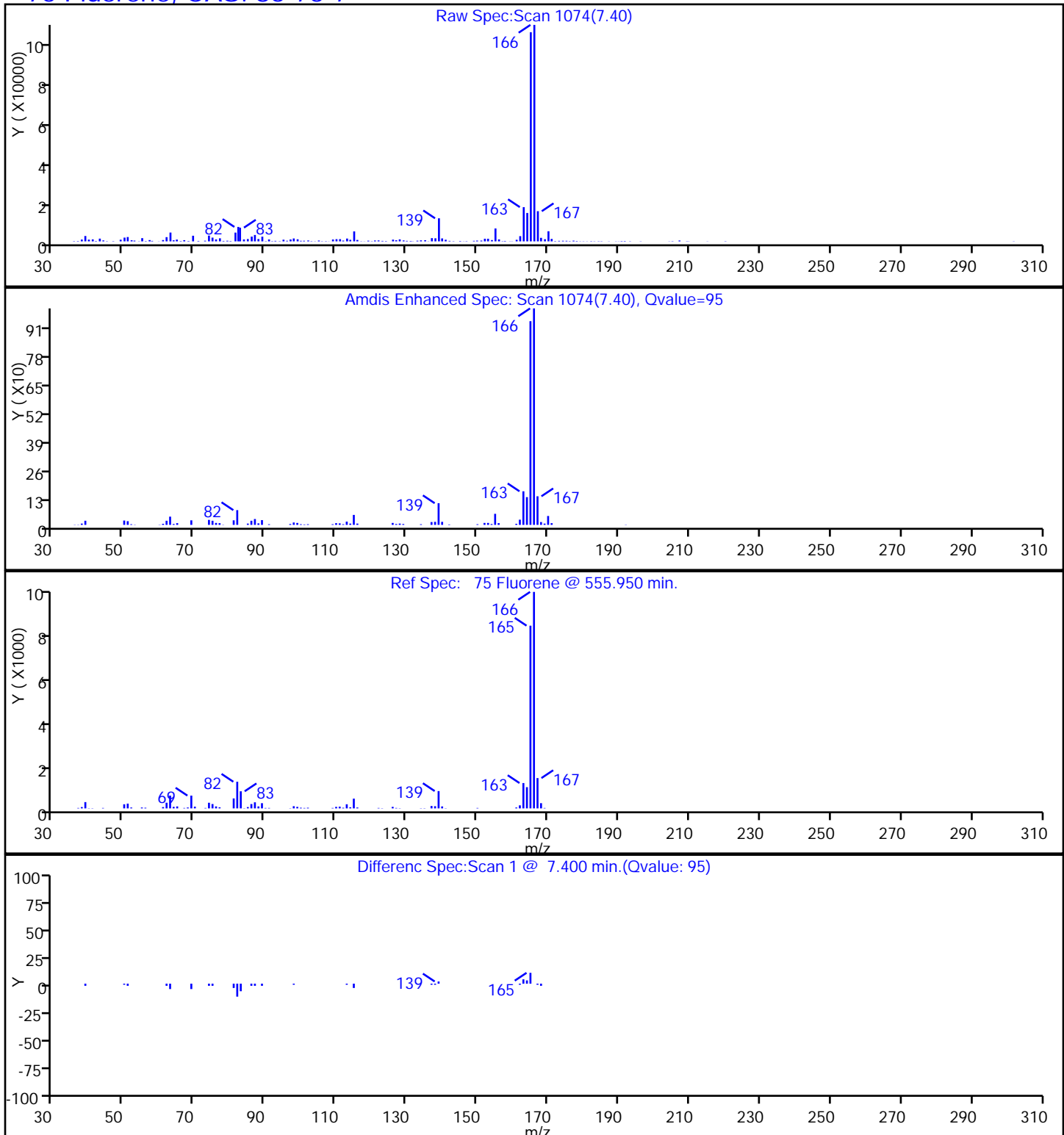
SV 8270D ICAL

Column: Rtxi-5Sil MS (0.25 mm)

Detector

MS SCAN

75 Fluorene, CAS: 86-73-7



TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS5\20160427-40365.b\13375.D

Injection Date: 27-Apr-2016 22:35:30

Instrument ID: CBNAMS5

Lims ID: 460-112518-A-1-B

Lab Sample ID: 460-112518-1

Client ID: A3

Operator ID:

ALS Bottle#:

15

Worklist Smp#:

15

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: 8270_5R

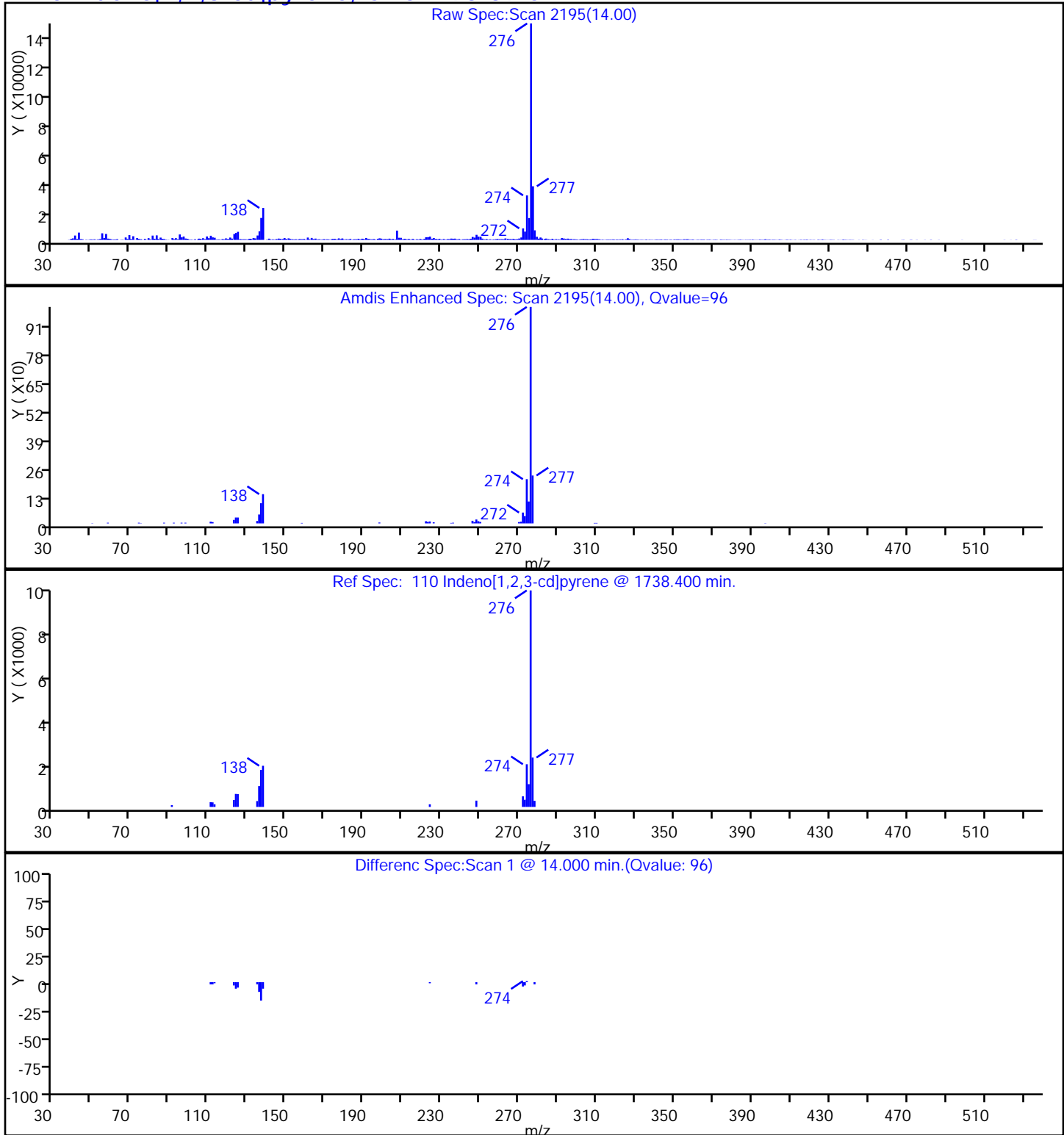
Limit Group:

SV 8270D ICAL

Column: Rtxi-5Sil MS (0.25 mm)

Detector

MS SCAN

110 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS5\20160427-40365.b\13375.D

Injection Date: 27-Apr-2016 22:35:30

Instrument ID: CBNAMS5

Lims ID: 460-112518-A-1-B

Lab Sample ID: 460-112518-1

Client ID: A3

Operator ID:

ALS Bottle#: 15

Worklist Smp#: 15

Injection Vol: 1.0 ul

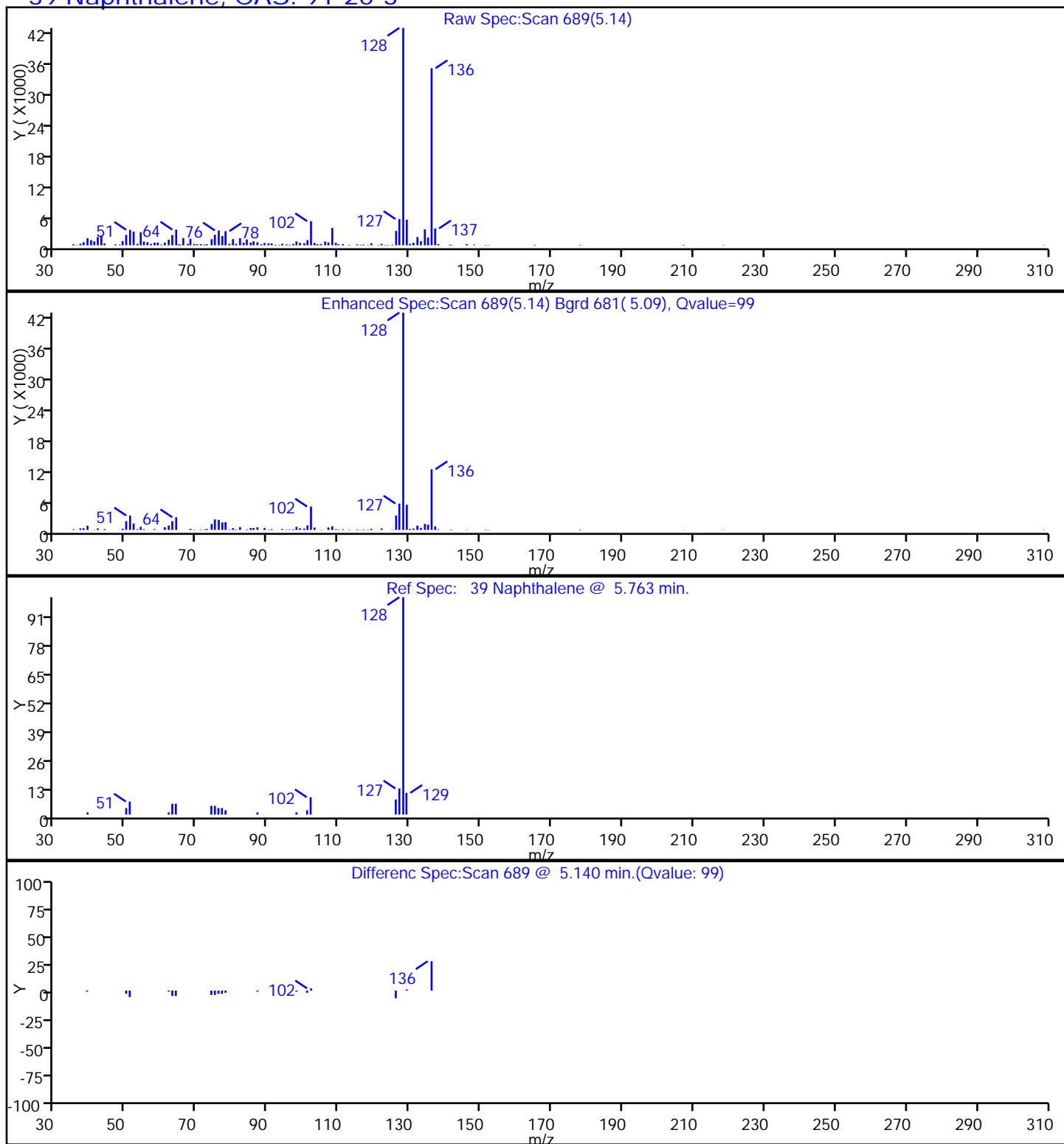
Dil. Factor: 1.0000

Method: 8270_5R

Limit Group: SV 8270D ICAL

Column: Rtxi-5Sil MS (0.25 mm)

Detector: MS SCAN

39 Naphthalene, CAS: 91-20-3

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS5\20160427-40365.b\13375.D

Injection Date: 27-Apr-2016 22:35:30

Instrument ID: CBNAMS5

Lims ID: 460-112518-A-1-B

Lab Sample ID: 460-112518-1

Client ID: A3

Operator ID:

ALS Bottle#:

15

Worklist Smp#:

15

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: 8270_5R

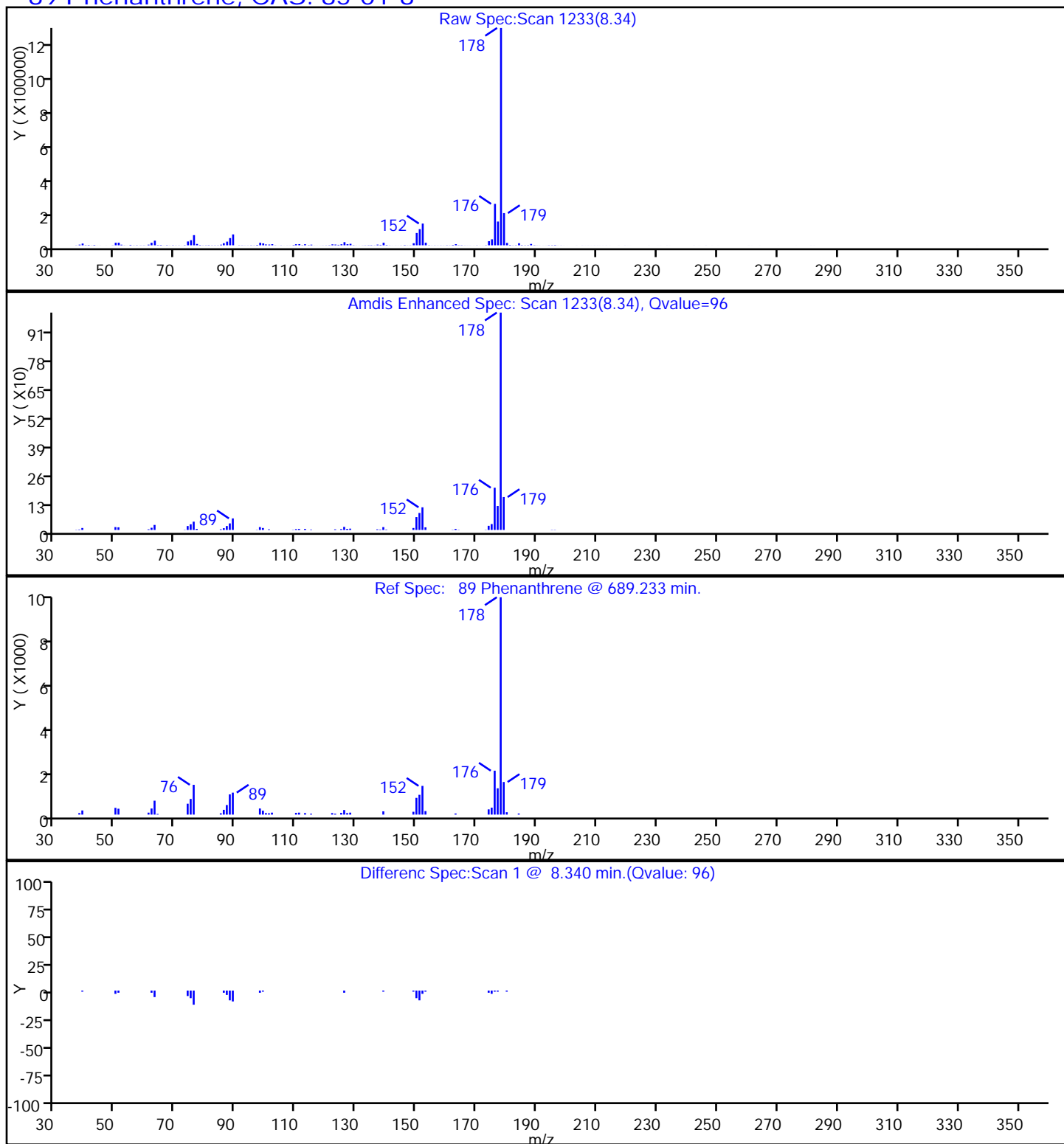
Limit Group:

SV 8270D ICAL

Column: Rtxi-5Sil MS (0.25 mm)

Detector

MS SCAN

89 Phenanthrene, CAS: 85-01-8

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS5\20160427-40365.b\13375.D

Injection Date: 27-Apr-2016 22:35:30

Instrument ID: CBNAMS5

Lims ID: 460-112518-A-1-B

Lab Sample ID: 460-112518-1

Client ID: A3

Operator ID:

ALS Bottle#:

15

Worklist Smp#:

15

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

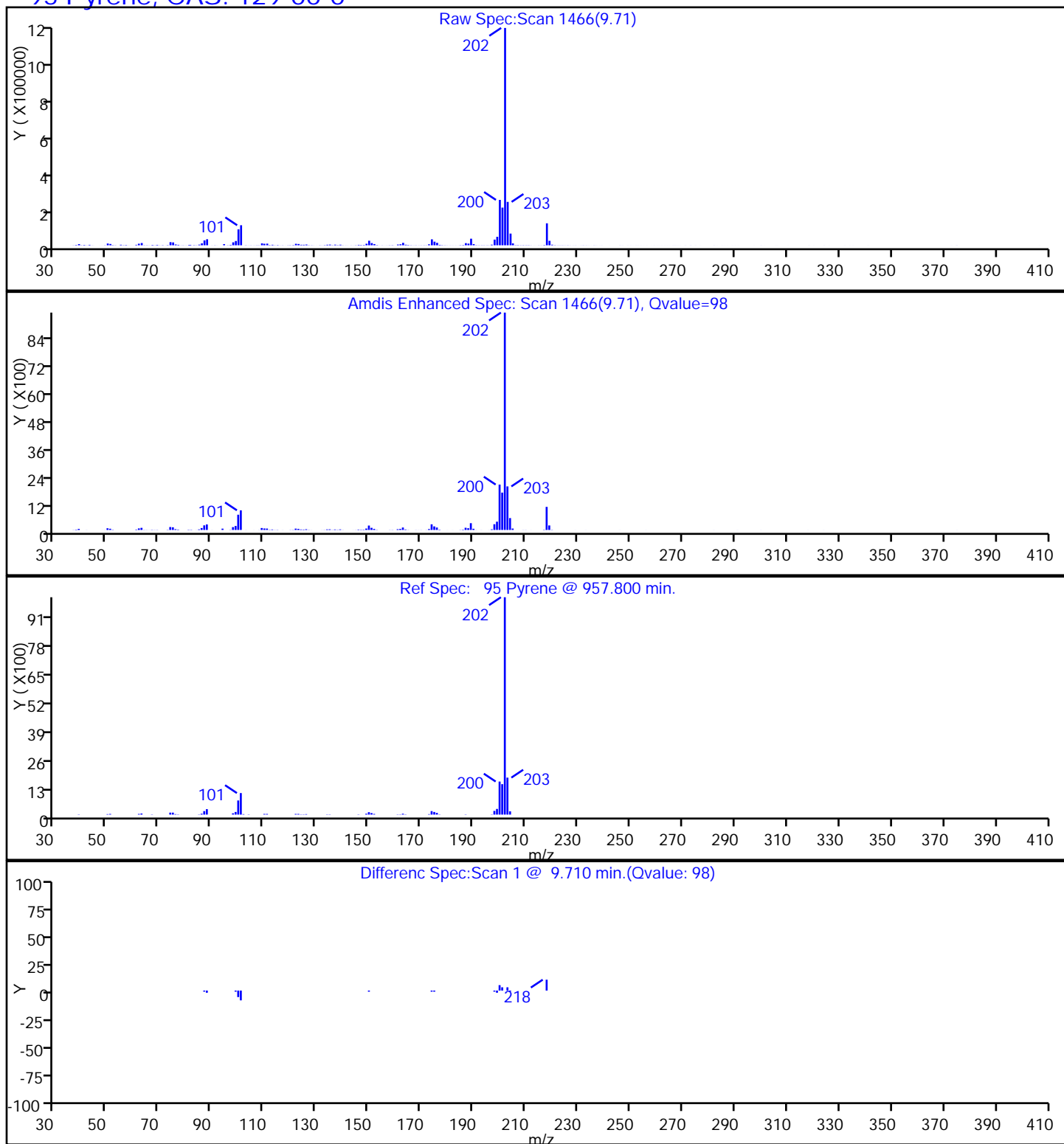
Method: 8270_5R

Limit Group: SV 8270D ICAL

Column: Rtxi-5Sil MS (0.25 mm)

Detector: MS SCAN

95 Pyrene, CAS: 129-00-0



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

Lab Name: TestAmerica Edison Job No.: 460-112518-1 Analy Batch No.: 361914

SDG No.: _____

Instrument ID: CBNAM5 GC Column: Rtxi-5Sil M ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/11/2016 17:25 Calibration End Date: 04/11/2016 19:51 Calibration ID: 55296

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD2 460-361914/17	x12707.D
Level 2	STD5 460-361914/16	x12706.D
Level 3	STD10 460-361914/15	x12705.D
Level 4	STD20 460-361914/14	x12704.D
Level 5	STD50 460-361914/11	x12701.D
Level 6	STD80 460-361914/13	x12703.D
Level 7	STD120 460-361914/12	x12702.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Benzaldehyde	1.3444 0.8989	1.2708 0.8780	1.2192	1.1746	0.9989	Ave		1.1121			0.0100	16.7		20.0			
Caprolactam	0.0540 0.0843	0.0642 0.0815	0.0773	0.0859	0.0909	Ave		0.0769			0.0100	17.1		20.0			
Atrazine	0.1906 0.2005	0.2068 0.1897	0.2041	0.2177	0.2203	Ave		0.2042			0.0100	5.8		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 Edison Job No.: 460-112518-1 Analy Batch No.: 361914

SDG No.: _____

Instrument ID: CBNAM5 GC Column: Rtxi-5Sil M ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/11/2016 17:25 Calibration End Date: 04/11/2016 19:51 Calibration ID: 55296

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD2 460-361914/17	x12707.D
Level 2	STD5 460-361914/16	x12706.D
Level 3	STD10 460-361914/15	x12705.D
Level 4	STD20 460-361914/14	x12704.D
Level 5	STD50 460-361914/11	x12701.D
Level 6	STD80 460-361914/13	x12703.D
Level 7	STD120 460-361914/12	x12702.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Benzaldehyde	DCB	Ave	76337 2224145	190614 3020014	351870	687558	1422910	2.00 80.0	5.00 120	10.0	20.0	50.0
Caprolactam	NPT	Ave	10278 704346	32499 945567	76124	168615	433831	2.00 80.0	5.00 120	10.0	20.0	50.0
Atrazine	PHN	Ave	26407 1322526	77975 1671435	154484	328047	837458	2.00 80.0	5.00 120	10.0	20.0	50.0

Curve Type Legend:

Ave = Average ISTD

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS5\20160411-39723.b\12701.D
 Lims ID: std50
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 11-Apr-2016 17:25:30 ALS Bottle#: 11 Worklist Smp#: 11
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 460-0039723-011
 Operator ID: Instrument ID: CBNAMS5
 Sublist: chrom-8270_5R*sub34
 Method: \\ChromNA\Edison\ChromData\CBNAMS5\20160411-39723.b\8270_5R.m
 Limit Group: SV 8270D ICAL
 Last Update: 11-Apr-2016 23:59:29 Calib Date: 11-Apr-2016 19:51:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS5\20160411-39723.b\12707.D
 Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK015

First Level Reviewer: croccom

Date: 11-Apr-2016 18:10:13

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
5 Benzaldehyde	77	4.071	4.071	0.000	88	1422910	50.0	44.9	
* 14 1,4-Dichlorobenzene-d4	152	4.506	4.506	0.000	97	1139635	40.0	40.0	
* 38 Naphthalene-d8	136	5.783	5.783	0.000	100	3816657	40.0	40.0	
42 Caprolactam	113	6.194	6.194	0.000	88	433831	50.0	59.2	
* 65 Acenaphthene-d10	164	7.541	7.541	0.000	91	2129057	40.0	40.0	
84 Atrazine	200	8.718	8.718	0.000	94	837458	50.0	53.9	
* 88 Phenanthrene-d10	188	9.006	9.006	0.000	97	3041762	40.0	40.0	
* 102 Chrysene-d12	240	11.812	11.812	0.000	98	1916690	40.0	40.0	
* 109 Perylene-d12	264	13.782	13.782	0.000	98	1440558	40.0	40.0	

Reagents:

SV_IC-S_L6_00018

Amount Added: 1.00

Units: mL

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS5\20160411-39723.b\x12701.D

Injection Date: 11-Apr-2016 17:25:30

Instrument ID: CBNAMS5

Operator ID:

Lims ID: std50

Worklist Smp#: 11

Client ID:

Injection Vol: 1.0 ul

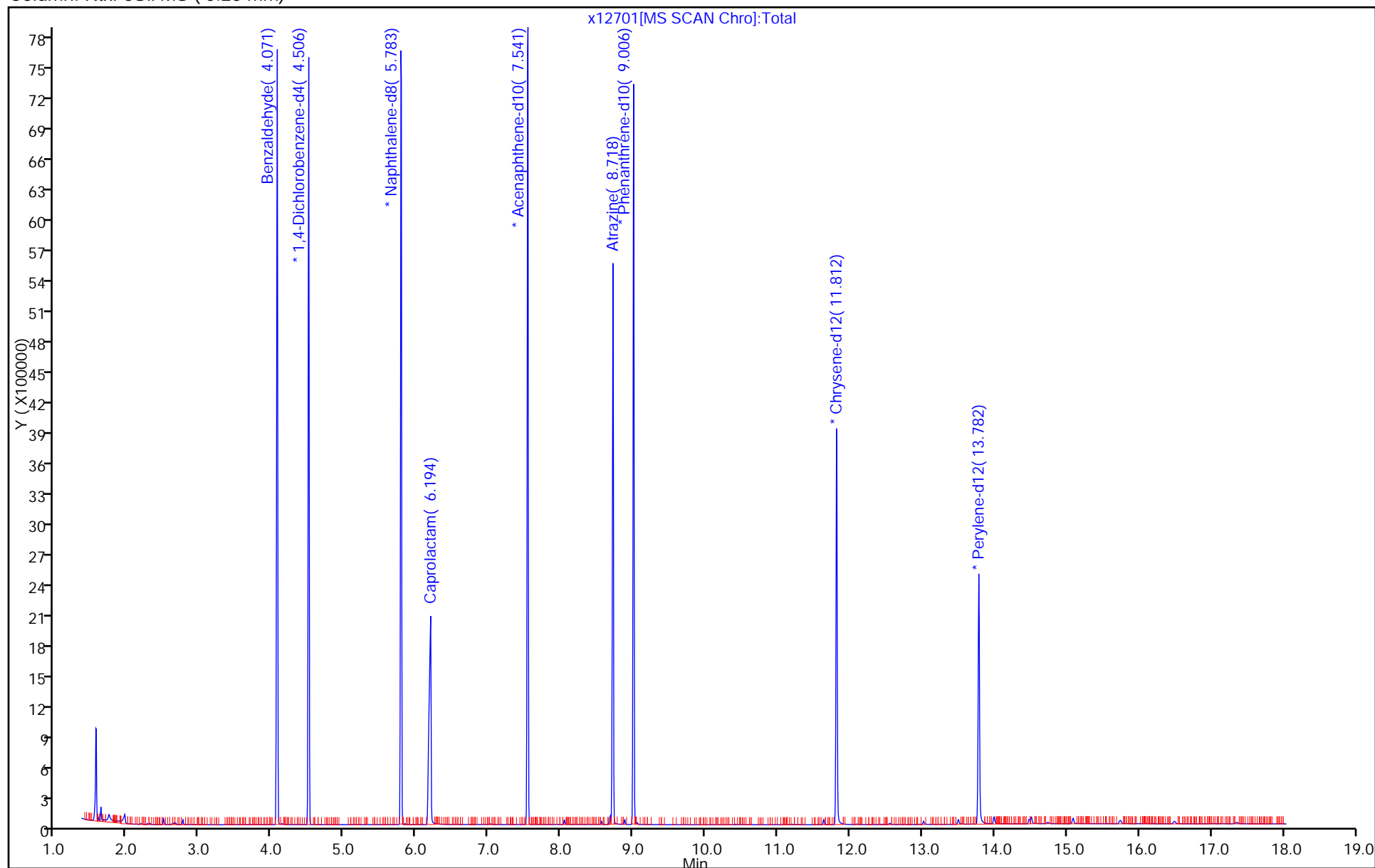
Dil. Factor: 1.0000

ALS Bottle#: 11

Method: 8270_5R

Limit Group: SV 8270D ICAL

Column: Rtxi-5Sil MS (0.25 mm)



TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS5\20160411-39723.b\12702.D
 Lims ID: std120
 Client ID:
 Sample Type: IC Calib Level: 9
 Inject. Date: 11-Apr-2016 17:49:30 ALS Bottle#: 12 Worklist Smp#: 12
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 460-0039723-012
 Operator ID: Instrument ID: CBNAMS5
 Sublist: chrom-8270_5R*sub34
 Method: \\ChromNA\Edison\ChromData\CBNAMS5\20160411-39723.b\8270_5R.m
 Limit Group: SV 8270D ICAL
 Last Update: 11-Apr-2016 23:59:34 Calib Date: 11-Apr-2016 19:51:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS5\20160411-39723.b\12707.D
 Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK015

First Level Reviewer: croccom

Date: 11-Apr-2016 18:14:32

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
5 Benzaldehyde	77	4.083	4.071	0.012	89	3020014	120.0	94.7	
* 14 1,4-Dichlorobenzene-d4	152	4.506	4.506	0.000	97	1146570	40.0	40.0	
* 38 Naphthalene-d8	136	5.789	5.783	0.006	100	3866877	40.0	40.0	
42 Caprolactam	113	6.218	6.194	0.024	87	945567	120.0	127.3	
* 65 Acenaphthene-d10	164	7.541	7.541	0.000	91	2080128	40.0	40.0	
84 Atrazine	200	8.730	8.718	0.012	94	1671435	120.0	111.5	
* 88 Phenanthrene-d10	188	9.006	9.006	0.000	97	2936739	40.0	40.0	
* 102 Chrysene-d12	240	11.812	11.812	0.000	98	1803876	40.0	40.0	
* 109 Perylene-d12	264	13.782	13.782	0.000	99	1362621	40.0	40.0	

Reagents:

SV_IC-S_L8_00005

Amount Added: 1.00

Units: mL

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS5\20160411-39723.b\12702.D

Injection Date: 11-Apr-2016 17:49:30

Instrument ID: CBNAMS5

Operator ID:

Lims ID: std120

Worklist Smp#: 12

Client ID:

Injection Vol: 1.0 ul

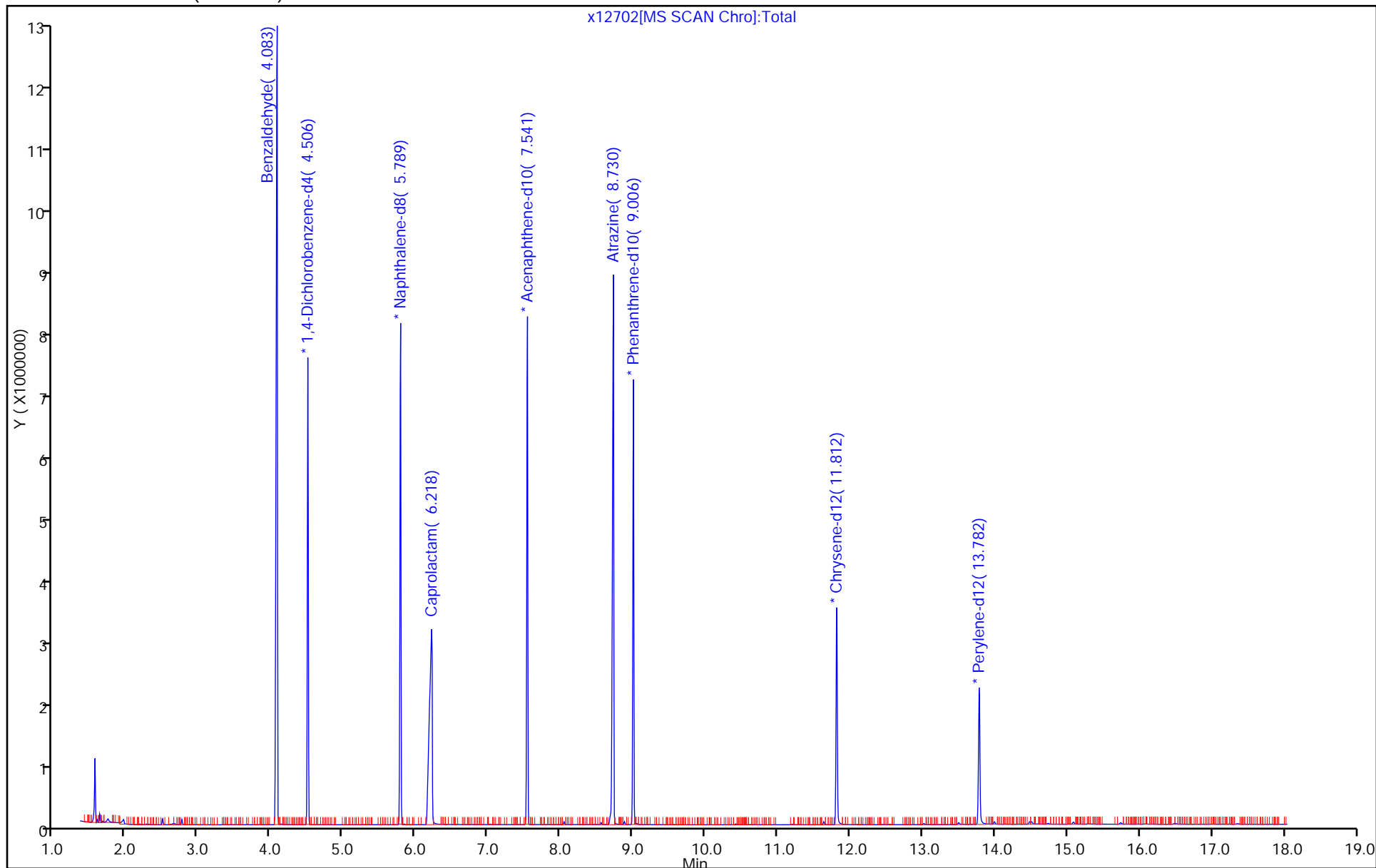
Dil. Factor: 1.0000

ALS Bottle#: 12

Method: 8270_5R

Limit Group: SV 8270D ICAL

Column: Rtxi-5Sil MS (0.25 mm)



TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS5\20160411-39723.b\12703.D
 Lims ID: std80
 Client ID:
 Sample Type: IC Calib Level: 8
 Inject. Date: 11-Apr-2016 18:14:30 ALS Bottle#: 13 Worklist Smp#: 13
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 460-0039723-013
 Operator ID: Instrument ID: CBNAMS5
 Sublist: chrom-8270_5R*sub34
 Method: \\ChromNA\Edison\ChromData\CBNAMS5\20160411-39723.b\8270_5R.m
 Limit Group: SV 8270D ICAL
 Last Update: 11-Apr-2016 23:59:39 Calib Date: 11-Apr-2016 19:51:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS5\20160411-39723.b\12707.D
 Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK015

First Level Reviewer: croccom

Date: 11-Apr-2016 18:44:02

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
5 Benzaldehyde	77	4.077	4.071	0.006	88	2224145	80.0	64.7	
* 14 1,4-Dichlorobenzene-d4	152	4.506	4.506	0.000	97	1237216	40.0	40.0	
* 38 Naphthalene-d8	136	5.788	5.783	0.005	99	4179349	40.0	40.0	
42 Caprolactam	113	6.206	6.194	0.012	89	704346	80.0	87.7	
* 65 Acenaphthene-d10	164	7.541	7.541	0.000	91	2264360	40.0	40.0	
84 Atrazine	200	8.724	8.718	0.006	94	1322526	80.0	78.5	
* 88 Phenanthrene-d10	188	9.006	9.006	0.000	97	3298733	40.0	40.0	
* 102 Chrysene-d12	240	11.817	11.812	0.005	98	2069053	40.0	40.0	
* 109 Perylene-d12	264	13.782	13.782	0.000	98	1583007	40.0	40.0	

Reagents:

SV_IC-S_L7_00005

Amount Added: 1.00

Units: mL

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS5\20160411-39723.b\x12703.D

Injection Date: 11-Apr-2016 18:14:30

Instrument ID: CBNAMS5

Operator ID:

Lims ID: std80

Worklist Smp#: 13

Client ID:

Injection Vol: 1.0 ul

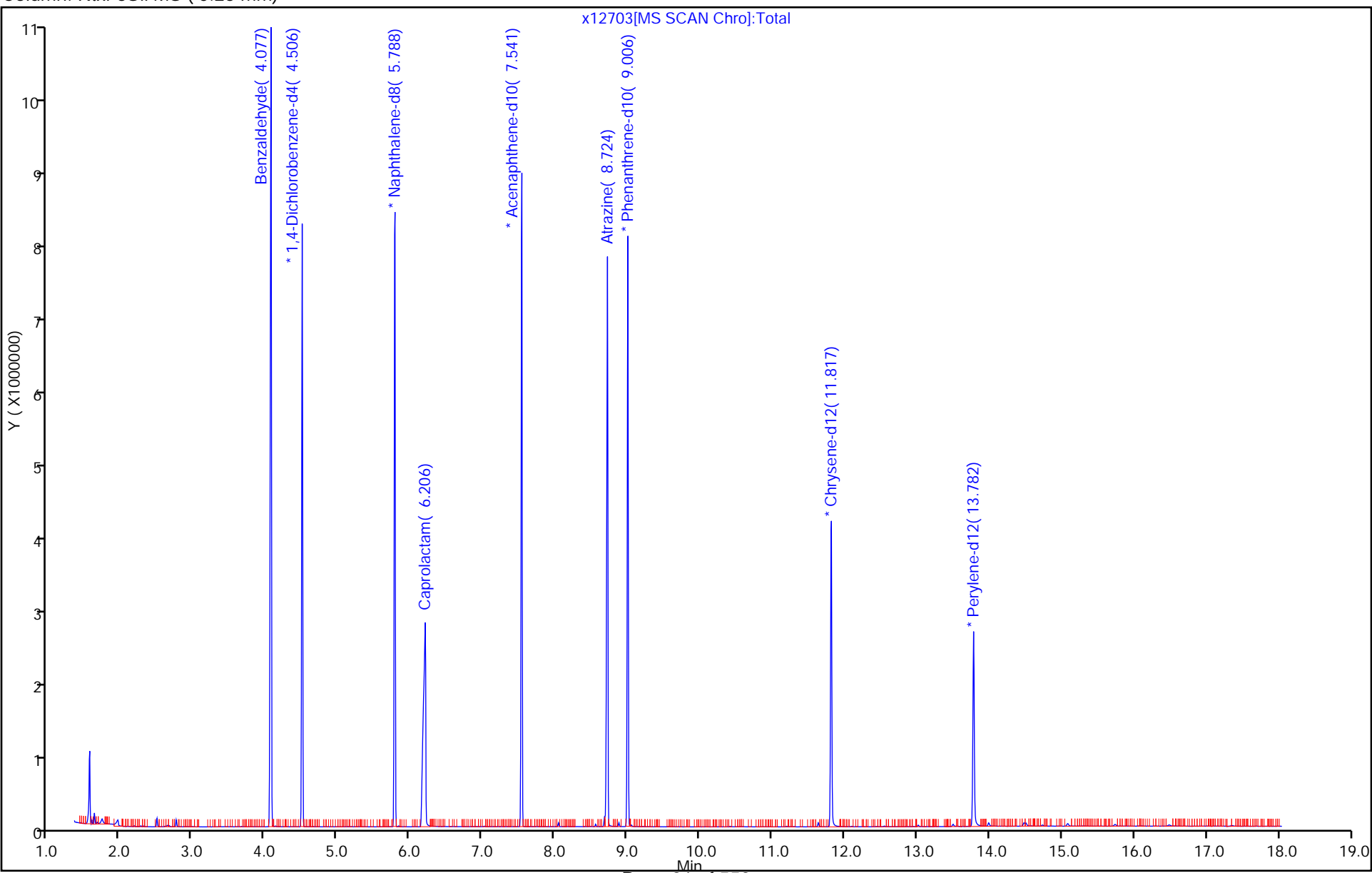
Dil. Factor: 1.0000

ALS Bottle#: 13

Method: 8270_5R

Limit Group: SV 8270D ICAL

Column: Rtxi-5Sil MS (0.25 mm)



TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS5\20160411-39723.b\12704.D
 Lims ID: std20
 Client ID:
 Sample Type: IC Calib Level: 6
 Inject. Date: 11-Apr-2016 18:38:30 ALS Bottle#: 14 Worklist Smp#: 14
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 460-0039723-014
 Operator ID: Instrument ID: CBNAMS5
 Sublist: chrom-8270_5R*sub34
 Method: \\ChromNA\Edison\ChromData\CBNAMS5\20160411-39723.b\8270_5R.m
 Limit Group: SV 8270D ICAL
 Last Update: 11-Apr-2016 23:59:43 Calib Date: 11-Apr-2016 19:51:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS5\20160411-39723.b\12707.D
 Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK015

First Level Reviewer: croccom

Date: 11-Apr-2016 19:20:36

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
5 Benzaldehyde	77	4.065	4.071	-0.006	89	687558	20.0	21.1	
* 14 1,4-Dichlorobenzene-d4	152	4.506	4.506	0.000	97	1170758	40.0	40.0	
* 38 Naphthalene-d8	136	5.789	5.783	0.006	99	3926462	40.0	40.0	
42 Caprolactam	113	6.177	6.194	-0.017	88	168615	20.0	22.3	
* 65 Acenaphthene-d10	164	7.541	7.541	0.000	91	2099362	40.0	40.0	
84 Atrazine	200	8.712	8.718	-0.006	94	328047	20.0	21.3	
* 88 Phenanthrene-d10	188	9.006	9.006	0.000	97	3013693	40.0	40.0	
* 102 Chrysene-d12	240	11.818	11.812	0.006	98	1727847	40.0	40.0	
* 109 Perylene-d12	264	13.782	13.782	0.000	99	1270016	40.0	40.0	

Reagents:

SV_IC-S_L5_00008

Amount Added: 1.00

Units: mL

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CBNAMS5\\20160411-39723.b\\x12704.D

Injection Date: 11-Apr-2016 18:38:30

Instrument ID: CBNAMS5

Operator ID:

Lims ID: std20

Worklist Smp#: 14

Client ID:

Injection Vol: 1.0 ul

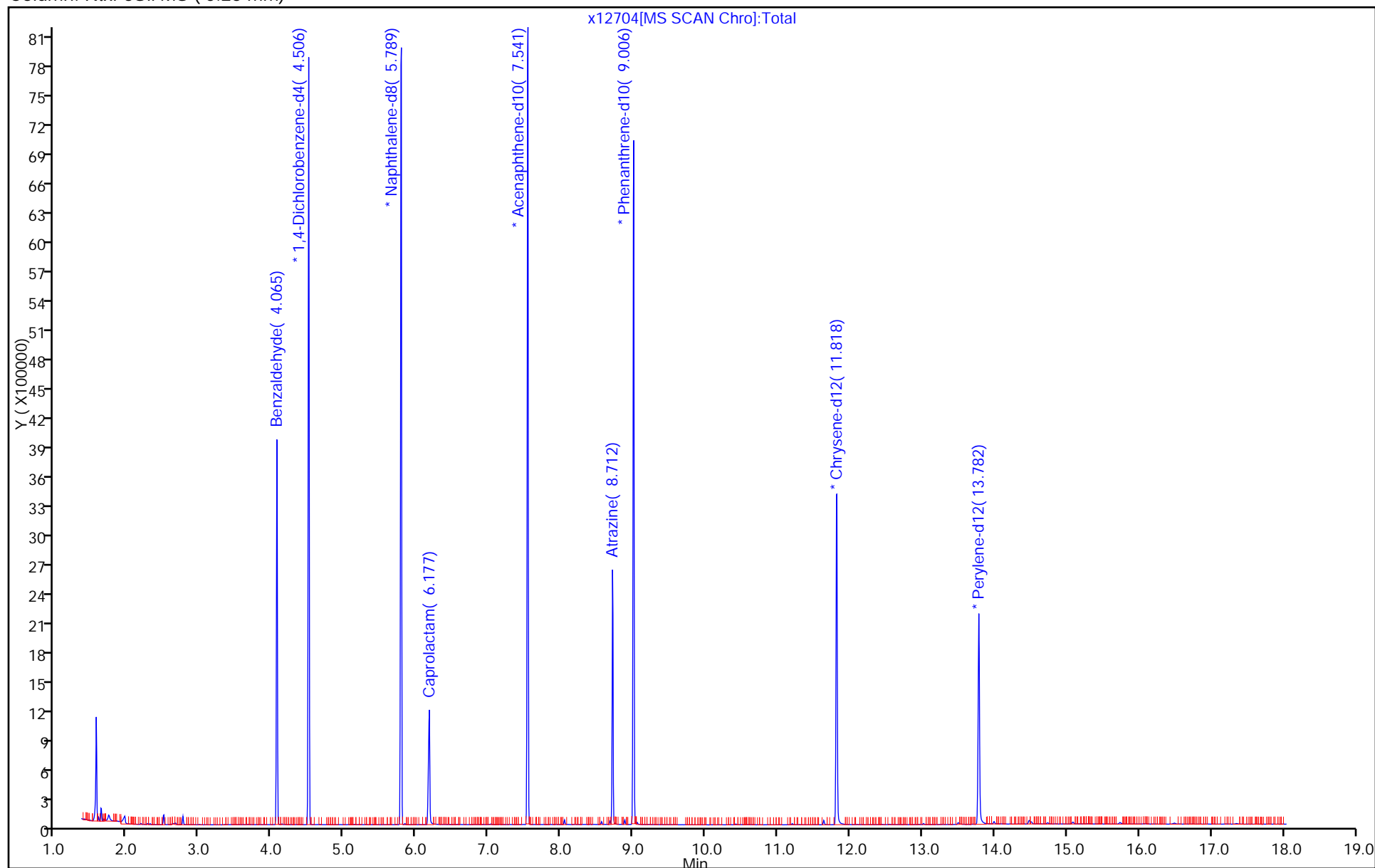
Dil. Factor: 1.0000

ALS Bottle#: 14

Method: 8270_5R

Limit Group: SV 8270D ICAL

Column: Rtxi-5Sil MS (0.25 mm)



TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS5\20160411-39723.b\12705.D
 Lims ID: std10
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 11-Apr-2016 19:03:30 ALS Bottle#: 15 Worklist Smp#: 15
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 460-0039723-015
 Operator ID: Instrument ID: CBNAMS5
 Sublist: chrom-8270_5R*sub34
 Method: \\ChromNA\Edison\ChromData\CBNAMS5\20160411-39723.b\8270_5R.m
 Limit Group: SV 8270D ICAL
 Last Update: 11-Apr-2016 23:59:47 Calib Date: 11-Apr-2016 19:51:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS5\20160411-39723.b\12707.D
 Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK015

First Level Reviewer: croccom

Date: 11-Apr-2016 19:35:13

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
5 Benzaldehyde	77	4.065	4.071	-0.006	89	351870	10.0	11.0	
* 14 1,4-Dichlorobenzene-d4	152	4.506	4.506	0.000	97	1154464	40.0	40.0	
* 38 Naphthalene-d8	136	5.788	5.783	0.005	100	3941468	40.0	40.0	
42 Caprolactam	113	6.165	6.194	-0.029	90	76124	10.0	10.1	
* 65 Acenaphthene-d10	164	7.541	7.541	0.000	90	2144312	40.0	40.0	
84 Atrazine	200	8.712	8.718	-0.006	94	154484	10.0	10.0	
* 88 Phenanthrene-d10	188	9.006	9.006	0.000	97	3027075	40.0	40.0	
* 102 Chrysene-d12	240	11.812	11.812	0.000	98	1672179	40.0	40.0	
* 109 Perylene-d12	264	13.782	13.782	0.000	98	1267081	40.0	40.0	

Reagents:

SV_IC-S_L4_00020

Amount Added: 1.00

Units: mL

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CBNAMS5\\20160411-39723.b\\x12705.D

Injection Date: 11-Apr-2016 19:03:30

Instrument ID: CBNAMS5

Operator ID:

Lims ID: std10

Worklist Smp#: 15

Client ID:

Injection Vol: 1.0 ul

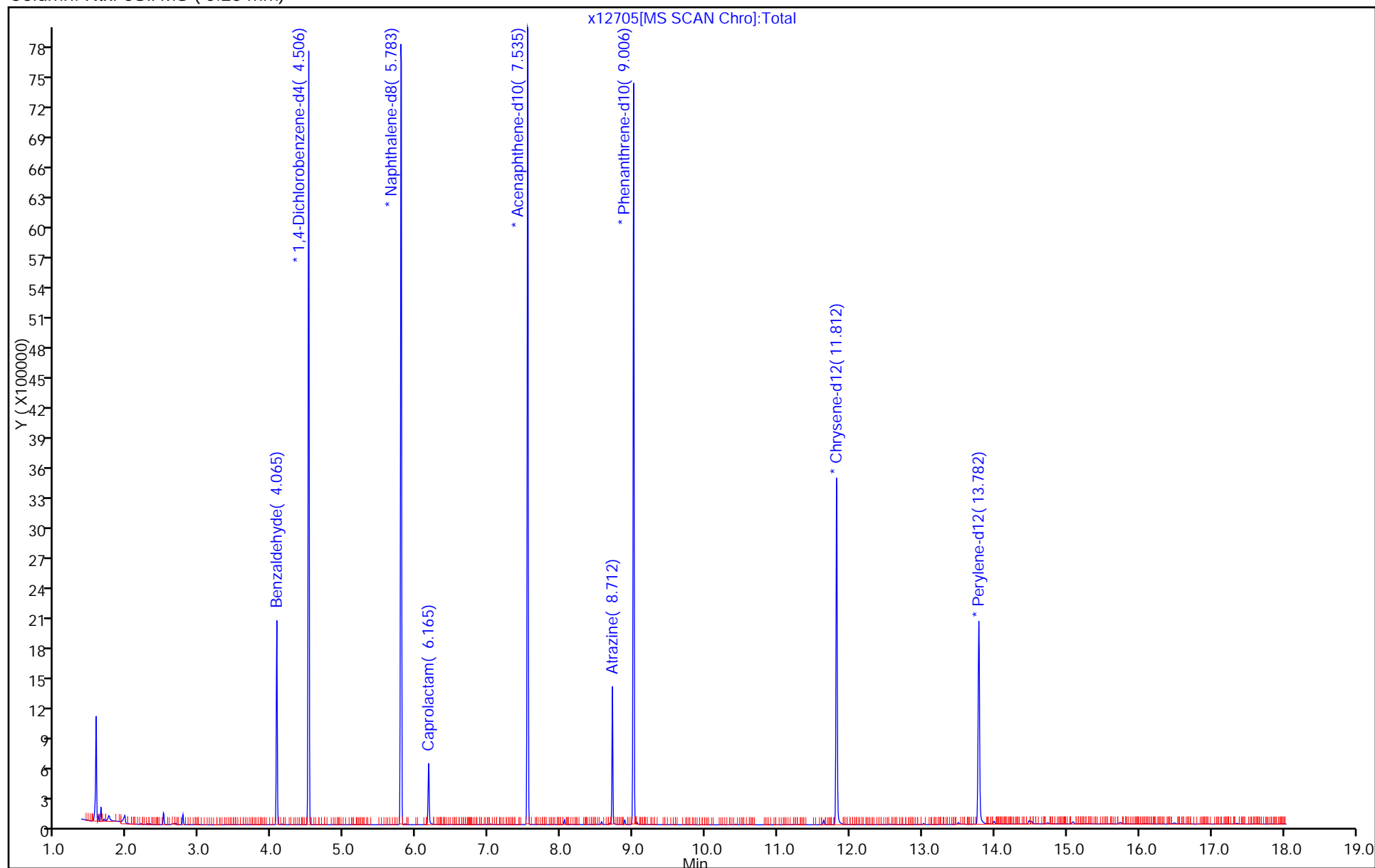
Dil. Factor: 1.0000

ALS Bottle#: 15

Method: 8270_5R

Limit Group: SV 8270D ICAL

Column: Rtxi-5Sil MS (0.25 mm)



TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS5\20160411-39723.b\12706.D
 Lims ID: std5
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 11-Apr-2016 19:27:30 ALS Bottle#: 16 Worklist Smp#: 16
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 460-0039723-016
 Operator ID: Instrument ID: CBNAMS5
 Sublist: chrom-8270_5R*sub34
 Method: \\ChromNA\Edison\ChromData\CBNAMS5\20160411-39723.b\8270_5R.m
 Limit Group: SV 8270D ICAL
 Last Update: 11-Apr-2016 23:59:51 Calib Date: 11-Apr-2016 19:51:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS5\20160411-39723.b\12707.D
 Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK015

First Level Reviewer: croccom

Date: 11-Apr-2016 19:51:41

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
5 Benzaldehyde	77	4.065	4.071	-0.006	90	190614	5.00	5.71	
* 14 1,4-Dichlorobenzene-d4	152	4.506	4.506	0.000	97	1199939	40.0	40.0	
* 38 Naphthalene-d8	136	5.783	5.783	0.000	99	4047184	40.0	40.0	
42 Caprolactam	113	6.165	6.194	-0.029	90	32499	5.00	4.18	
* 65 Acenaphthene-d10	164	7.541	7.541	0.000	91	2181136	40.0	40.0	
84 Atrazine	200	8.712	8.718	-0.006	94	77975	5.00	5.06	
* 88 Phenanthrene-d10	188	9.006	9.006	0.000	97	3017017	40.0	40.0	
* 102 Chrysene-d12	240	11.812	11.812	0.000	98	1704835	40.0	40.0	
* 109 Perylene-d12	264	13.782	13.782	0.000	98	1288351	40.0	40.0	

Reagents:

SV_IC-S_L3_00010

Amount Added: 1.00

Units: mL

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CBNAMS5\\20160411-39723.b\\x12706.D

Injection Date: 11-Apr-2016 19:27:30

Instrument ID: CBNAMS5

Operator ID:

Lims ID: std5

Worklist Smp#: 16

Client ID:

Injection Vol: 1.0 ul

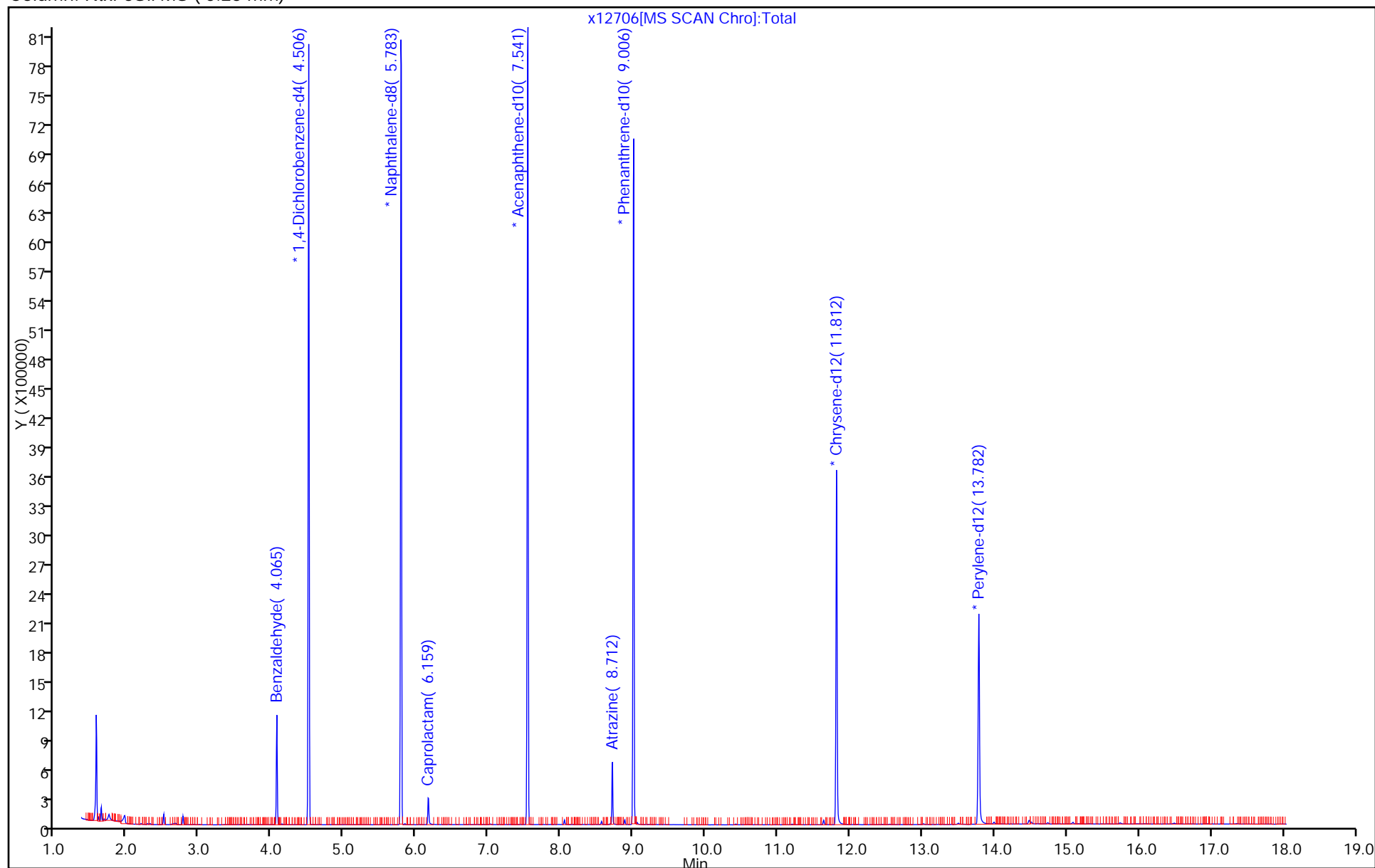
Dil. Factor: 1.0000

ALS Bottle#: 16

Method: 8270_5R

Limit Group: SV 8270D ICAL

Column: Rtxi-5Sil MS (0.25 mm)



TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS5\20160411-39723.b\12707.D
 Lims ID: std2
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 11-Apr-2016 19:51:30 ALS Bottle#: 17 Worklist Smp#: 17
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 460-0039723-017
 Operator ID: Instrument ID: CBNAMS5
 Sublist: chrom-8270_5R*sub34
 Method: \\ChromNA\Edison\ChromData\CBNAMS5\20160411-39723.b\8270_5R.m
 Limit Group: SV 8270D ICAL
 Last Update: 11-Apr-2016 23:59:55 Calib Date: 11-Apr-2016 19:51:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS5\20160411-39723.b\12707.D
 Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK015

First Level Reviewer: croccom

Date: 11-Apr-2016 20:13:02

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
5 Benzaldehyde	77	4.065	4.071	-0.006	91	76337	2.00	2.42	
* 14 1,4-Dichlorobenzene-d4	152	4.506	4.506	0.000	97	1135601	40.0	40.0	
* 38 Naphthalene-d8	136	5.783	5.783	0.000	100	3810177	40.0	40.0	
42 Caprolactam	113	6.159	6.194	-0.035	89	10278	2.00	1.40	
* 65 Acenaphthene-d10	164	7.541	7.541	0.000	91	2017081	40.0	40.0	
84 Atrazine	200	8.706	8.718	-0.012	94	26407	2.00	1.87	
* 88 Phenanthrene-d10	188	9.006	9.006	0.000	97	2771010	40.0	40.0	
* 102 Chrysene-d12	240	11.812	11.812	0.000	98	1538027	40.0	40.0	
* 109 Perylene-d12	264	13.782	13.782	0.000	98	1179944	40.0	40.0	

Reagents:

SV_IC-S_L2_00008

Amount Added: 1.00

Units: mL

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CBNAMS5\\20160411-39723.b\\x12707.D

Injection Date: 11-Apr-2016 19:51:30

Instrument ID: CBNAMS5

Operator ID:

Lims ID: std2

Worklist Smp#: 17

Client ID:

Injection Vol: 1.0 ul

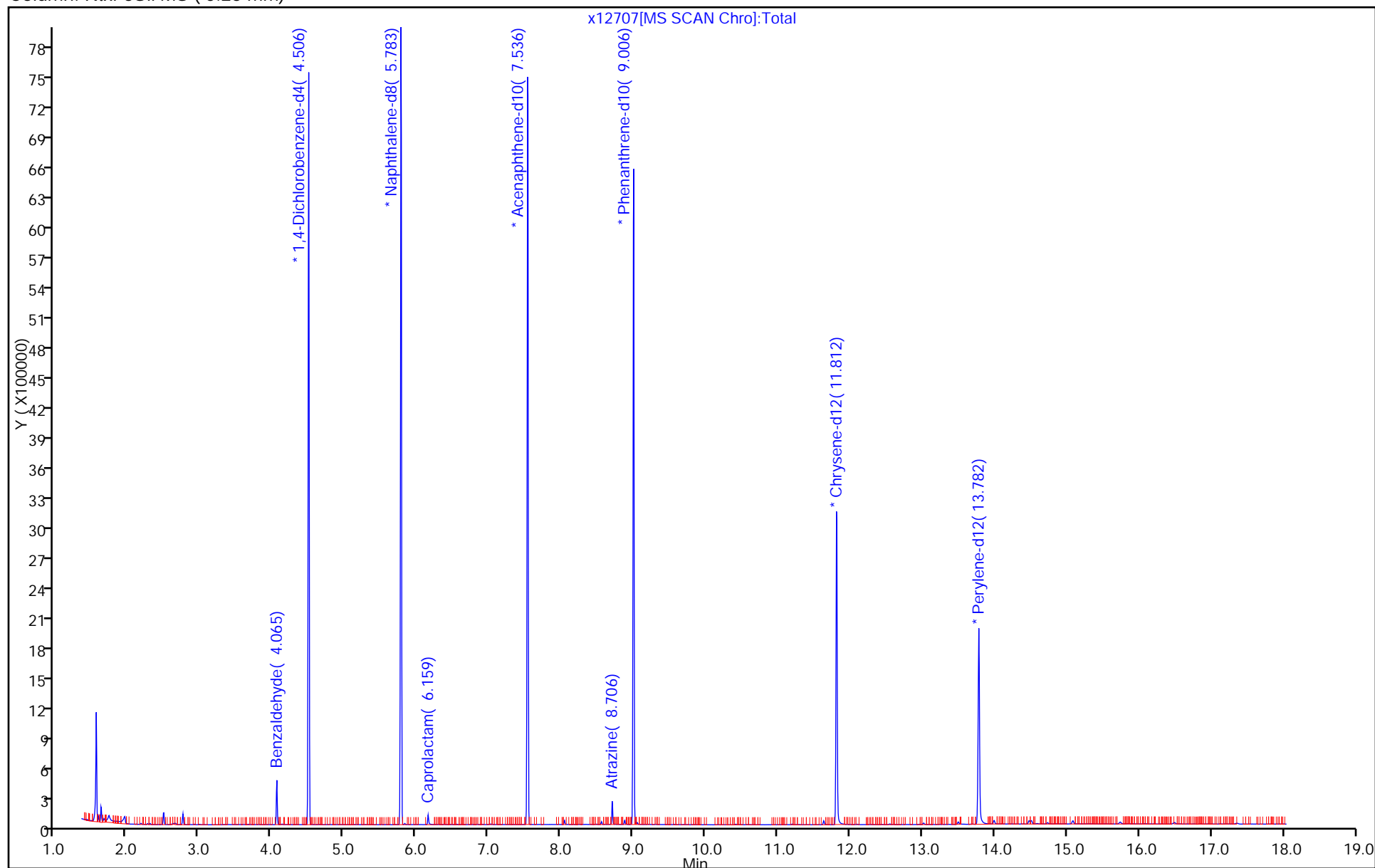
Dil. Factor: 1.0000

ALS Bottle#: 17

Method: 8270_5R

Limit Group: SV 8270D ICAL

Column: Rtxi-5Sil MS (0.25 mm)



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

Lab Name: TestAmerica Edison Job No.: 460-112518-1 Analy Batch No.: 363141

SDG No.: _____

Instrument ID: CBNAMS5 GC Column: Rtxi-5Sil M ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/18/2016 11:44 Calibration End Date: 04/18/2016 15:17 Calibration ID: 55341

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD05 460-363141/10	x12973.D
Level 2	STD1 460-363141/9	x12972.D
Level 3	STD2 460-363141/8	x12971.D
Level 4	STD5 460-363141/7	x12970.D
Level 5	STD10 460-363141/6	x12969.D
Level 6	STD20 460-363141/5	x12968.D
Level 7	ICIS 460-363141/2	x12965.D
Level 8	STD80 460-363141/4	x12967.D
Level 9	STD120 460-363141/3	x12966.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													
1,4-Dioxane	0.5223	0.5125	0.5118	0.5283 0.5333	0.5436	Ave		0.5253				2.4		20.0			
N-Nitrosodimethylamine	0.6974	0.6728	0.6469	0.6838 0.6815	0.7110	Ave		0.6822				3.2		20.0			
Pyridine	1.2135	1.1427	1.1153	1.2160 1.1527	1.2652	Ave		1.1842				4.8		20.0			
Phenol	1.6677	1.4151	1.3529	1.7686 1.4198	1.7882	Ave		1.5687		0.8000	12.4			20.0			
Aniline	1.8160	1.5813	1.5223	1.9130 1.6006	1.9256	Ave		1.7265			10.4			20.0			
Bis(2-chloroethyl)ether	1.2601 1.0963	1.1846 1.0254	1.2617 0.9998	1.1561 1.0817	1.1751	Ave		1.1379		0.7000	8.3			20.0			
2-Chlorophenol	1.3850	1.2705	1.2127	1.4274 1.2281	1.4211	Ave		1.3241		0.8000	7.4			20.0			
n-Decane	1.6148	1.4569	1.4222	1.6652 1.4725	1.7051	Ave		1.5561			7.7			20.0			
1,3-Dichlorobenzene	1.7108	1.5808	1.5239	1.7641 1.5560	1.7879	Ave		1.6539			6.9			20.0			
1,4-Dichlorobenzene	1.7241	1.5692	1.5049	1.7113 1.4811	1.7748	Ave		1.6276			7.7			20.0			
Benzyl alcohol	0.8130	0.7703	0.7154	0.8326 0.7487	0.8505	Ave		0.7884			6.6			20.0			
1,2-Dichlorobenzene	1.6097	1.4326	1.3474	1.6935 1.3247	1.6664	Ave		1.5124			10.9			20.0			
2-Methylphenol	1.2068	1.0617	0.9740	1.2418 0.9917	1.2495	Ave		1.1209		0.7000	11.3			20.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

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

Lab Name: TestAmerica Edison Job No.: 460-112518-1 Analy Batch No.: 363141
SDG No.: _____
Instrument ID: CBNAMS5 GC Column: Rtxi-5Sil M ID: 0.25 (mm) Heated Purge: (Y/N) N
Calibration Start Date: 04/18/2016 11:44 Calibration End Date: 04/18/2016 15:17 Calibration ID: 55341

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
2,2'-oxybis[1-chloropropane]	1.7588	1.5810	1.4600	1.8212 1.4622	1.8362	Ave		1.6532			0.0100	10.5		20.0			
Acetophenone	1.4864	1.3058	1.2685	1.6741 1.3319	1.6313	Ave		1.4497			0.0100	12.0		20.0			
N-Nitrosodi-n-propylamine	0.9044 0.7082	0.9002 0.6282	0.8331 0.6168	0.7981 0.6508	0.7748	Ave		0.7572			0.5000	14.8		20.0			
3 & 4 Methylphenol	1.1953	1.0185	0.9783	1.2584 0.9884	1.2627	Ave		1.1169				12.2		20.0			
4-Methylphenol	1.1953	1.0185	0.9783	1.2584 0.9884	1.2627	Ave		1.1169			0.6000	12.2		20.0			
Hexachloroethane	0.6414 0.5831	0.6447 0.5374	0.6222 0.5135	0.5962 0.5228	0.6201	Ave		0.5868			0.3000	8.7		20.0			
Nitrobenzene	0.5229 0.4894	0.4944 0.4463	0.5212 0.4277	0.5066 0.4344	0.5099	Ave		0.4837			0.2000	7.8		20.0			
n,n'-Dimethylaniline	2.2353 1.8446	2.0361 1.6424	2.0762 1.5107	2.0408 1.5728	1.9566	Ave		1.8795				13.4		20.0			
Isophorone	0.5945	0.5624	0.6426 0.5506	0.6156 0.5747	0.6118	Ave		0.5932			0.4000	5.5		20.0			
2-Nitrophenol	0.2149	0.2012	0.1950	0.1973 0.2026	0.2167	Ave		0.2046			0.1000	4.4		20.0			
2,4-Dimethylphenol	0.3449	0.3154	0.3048	0.3517 0.3020	0.3519	Ave		0.3285			0.2000	7.2		20.0			
Bis(2-chloroethoxy)methane	0.3616	0.3353	0.3216	0.3673 0.3280	0.3655	Ave		0.3466			0.3000	5.9		20.0			
Benzoic acid	0.1504	0.1700	0.1623	0.0849 0.1818	0.1099	Lin2	-0.489	0.1751			0.0100				0.9950		0.9900
2,4-Dichlorophenol	0.3440	0.3222	0.3289 0.3086	0.3460 0.3075	0.3554	Ave		0.3304			0.2000	5.7		20.0			
1,2,4-Trichlorobenzene	0.4072 0.3866	0.3951 0.3760	0.4012 0.3568	0.3900 0.3640	0.3999	Ave		0.3863				4.5		20.0			
Naphthalene	1.0948	0.9878	0.9582	1.1187 0.9245	1.1308	Ave		1.0358			0.7000	8.6		20.0			
4-Chloroaniline	0.4135	0.3670	0.3536	0.4338 0.3573	0.4268	Ave		0.3920			0.0100	9.4		20.0			
Hexachlorobutadiene	0.2573	0.2510 0.2519	0.2697 0.2504	0.2463 0.2526	0.2568	Ave		0.2545			0.0100	2.8		20.0			
4-Chloro-3-methylphenol	0.2753	0.2530	0.2348	0.2859 0.2370	0.2907	Ave		0.2628			0.2000	9.3		20.0			
2-Methylnaphthalene	0.7468	0.6580	0.6395	0.7605 0.6338	0.7764	Ave		0.7025			0.4000	9.3		20.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

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

Lab Name: TestAmerica Edison Job No.: 460-112518-1 Analy Batch No.: 363141
SDG No.: _____
Instrument ID: CBNAMS5 GC Column: Rtxi-5Sil M ID: 0.25 (mm) Heated Purge: (Y/N) N
Calibration Start Date: 04/18/2016 11:44 Calibration End Date: 04/18/2016 15:17 Calibration ID: 55341

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
1-Methylnaphthalene	0.6326	0.5745	0.5406	0.6589 0.5441	0.6558	Ave		0.6011				9.1		20.0			
Hexachlorocyclopentadiene	0.4524	0.4489	0.5274	0.3469 0.5388	0.4128	Ave		0.4545			0.0500	15.8		20.0			
1,2,4,5-Tetrachlorobenzene	0.6976	0.6610	0.6920	0.6593 0.7034	0.7121	Ave		0.6876			0.0100	3.2		20.0			
2-tertbutyl-4-methylphenol	0.4685	0.4379	0.4095	0.5038 0.4152	0.4884	Ave		0.4539				8.6		20.0			
2,4,6-Trichlorophenol	0.4280	0.4094	0.3254 0.4182	0.3721 0.4296	0.4152	Ave		0.3997			0.2000	9.5		20.0			
2,4,5-Trichlorophenol	0.4350	0.4156	0.4127	0.4042 0.4297	0.4346	Ave		0.4220			0.2000	3.1		20.0			
1,1'-Biphenyl	1.6772	1.4913	1.4827	1.6118 1.4532	1.6898	Ave		1.5676			0.0100	6.7		20.0			
2-Chloronaphthalene	1.2849	1.1307	1.1391	1.2412 1.1394	1.2836	Ave		1.2031			0.8000	6.2		20.0			
Phenyl ether	0.8982	0.8692	0.8173	0.8792 0.8371	0.9129	Ave		0.8690				4.2		20.0			
2-Nitroaniline	0.3734	0.3374	0.3293	0.3641 0.3425	0.3701	Ave		0.3528			0.0100	5.3		20.0			
1,3-Dimethylnaphthalene	1.0139	0.9735	0.8497	1.0596 0.8898	1.0772	Ave		0.9773				9.4		20.0			
Dimethyl phthalate	1.1645	1.0625	1.0217	1.1939 1.0369	1.2208	Ave		1.1167			0.0100	7.7		20.0			
Coumarin	0.1885	0.1694	0.1482	0.2116 0.1536	0.1974	Ave		0.1781				14.2		20.0			
2,6-Dinitrotoluene	0.2778	0.2548 0.2525	0.2726 0.2510	0.2627 0.2544	0.2732	Ave		0.2624			0.2000	4.1		20.0			
Acenaphthylene	1.7766	1.6521	1.5923	1.7358 1.5889	1.8156	Ave		1.6935			0.9000	5.7		20.0			
3-Nitroaniline	0.2809	0.2621	0.2530	0.2729 0.2619	0.2793	Ave		0.2684			0.0100	4.1		20.0			
Acenaphthene	1.0985	0.9653	0.9355	1.1273 0.9360	1.1510	Ave		1.0356			0.9000	9.7		20.0			
3,5-di-tert-butyl-4-hydroxytol	1.2581	1.2344	1.1912	1.2338 1.2259	1.2732	Ave		1.2361				2.3		20.0			
2,4-Dinitrophenol	0.1433	0.1449	0.0473 0.1529	0.0990 0.1635	0.1258	Lin2	-0.445	0.1535			0.0100				0.9970		0.9900
4-Nitrophenol	0.1654	0.1560	0.1535	0.1486 0.1686	0.1565	Ave		0.1581			0.0100	4.8		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 Edison Job No.: 460-112518-1 Analy Batch No.: 363141
SDG No.: _____
Instrument ID: CBNAMS5 GC Column: Rtxi-5Sil M ID: 0.25 (mm) Heated Purge: (Y/N) N
Calibration Start Date: 04/18/2016 11:44 Calibration End Date: 04/18/2016 15:17 Calibration ID: 55341

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
2,4-Dinitrotoluene	0.3237	0.2886 0.2838	0.3057 0.2739	0.3133 0.2833	0.3276	Ave		0.3000			0.2000	6.8		20.0			
Dibenzofuran	1.6511	1.5017	1.4138	1.6373 1.4323	1.7202	Ave		1.5594			0.8000	8.2		20.0			
2,3,4,6-Tetrachlorophenol	0.3203	0.3145	0.3108	0.2809 0.3330	0.3050	Ave		0.3108			0.0100	5.6		20.0			
Diethyl phthalate	1.0863	0.9953	0.9531	1.0480 0.9593	1.1110	Ave		1.0255			0.0100	6.5		20.0			
Fluorene	1.2057	1.0793	1.0430	1.2476 1.0413	1.2660	Ave		1.1471			0.9000	9.1		20.0			
4-Chlorophenyl phenyl ether	0.6412	0.5861	0.5706	0.6382 0.5743	0.6643	Ave		0.6125			0.4000	6.6		20.0			
4-Nitroaniline	0.2359	0.2150	0.2089	0.2274 0.1930	0.2276	Ave		0.2180			0.0100	7.2		20.0			
4,6-Dinitro-2-methylphenol	0.1348	0.1381	0.0756 0.1414	0.1117 0.1493	0.1248	Lin2	-0.277	0.1427			0.0100				0.9990		0.9900
N-Nitrosodiphenylamine	0.6304	0.6001	0.6302 0.5882	0.6413 0.5934	0.6499	Ave		0.6191			0.0100	4.0		20.0			
1,2-Diphenylhydrazine	0.7105	0.6649	0.6683	0.7045 0.6591	0.7212	Ave		0.6881				3.9		20.0			
4-Bromophenyl phenyl ether	0.2762	0.2790	0.2826	0.2603 0.2919	0.2714	Ave		0.2769			0.1000	3.8		20.0			
Hexachlorobenzene	0.3050 0.3325	0.2874 0.3426	0.3009 0.3515	0.3014 0.3739	0.3144	Ave		0.3233			0.1000	8.8		20.0			
Pentachlorophenol	0.1612	0.1753	0.0708 0.1846	0.1209 0.1998	0.1365	Lin2	-0.472	0.1799			0.0500				0.9920		0.9900
Pentachloronitrobenzene	0.1195	0.1219	0.1088	0.1123 0.1124	0.1139	Ave		0.1148			0.0100	4.3		20.0			
n-Octadecane	0.5012	0.4881	0.4811	0.4861 0.4969	0.5048	Ave		0.4930				1.9		20.0			
Phenanthrene	1.1311	1.0789	1.0481	1.1377 1.0677	1.1438	Ave		1.1012			0.7000	3.7		20.0			
Anthracene	1.1373	1.0764	1.0535	1.1273 1.0700	1.1410	Ave		1.1009			0.7000	3.5		20.0			
Carbazole	0.8935	0.8457	0.8184	0.8805 0.8338	0.8896	Ave		0.8603			0.0100	3.7		20.0			
Di-n-butyl phthalate	1.0513	1.0072	1.0148	1.0055 1.0350	1.0405	Ave		1.0257			0.0100	1.9		20.0			
Fluoranthene	0.9866	0.9623	0.9612	0.9353 0.9614	0.9712	Ave		0.9630			0.6000	1.7		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 Edison Job No.: 460-112518-1 Analy Batch No.: 363141
SDG No.: _____
Instrument ID: CBNAMS5 GC Column: Rtxi-5Sil M ID: 0.25 (mm) Heated Purge: (Y/N) N
Calibration Start Date: 04/18/2016 11:44 Calibration End Date: 04/18/2016 15:17 Calibration ID: 55341

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
Benzidine	0.4383	0.4264	0.5329	0.3980 0.5116	0.3776	Ave		0.4475				13.9		20.0			
Pyrene	1.5425	1.4832	1.4179	1.5431 1.4930	1.5774	Ave		1.5095			0.6000	3.8		20.0			
Bisphenol-A	0.4775	0.5444	0.5621	0.4386 0.6100	0.4631	Ave		0.5160				12.9		20.0			
Butyl benzyl phthalate	0.5357	0.5311	0.5298	0.5055 0.5558	0.5307	Ave		0.5314			0.0100	3.0		20.0			
2,3,7,8-TCDD		0.1915				Ave		0.1915						20.0			
Carbamazepine	0.3229	0.3673	0.4119	0.1671 0.4540	0.2398	Qua	-0.949	0.3401	0.0010178						1.0000		0.9900
3,3'-Dichlorobenzidine	0.4300	0.4416	0.3202 0.4715	0.3988 0.4875	0.3966	Ave		0.4209			0.0100	13.3		20.0			
Benzo[a]anthracene	1.3361 1.1670	1.2013 1.1447	1.1209 1.1575	1.1110 1.2498	1.1693	Ave		1.1842			0.8000	6.0		20.0			
Chrysene	1.0414	1.0311	1.0253	1.0129 1.1231	1.0548	Ave		1.0481			0.7000	3.8		20.0			
Bis(2-ethylhexyl) phthalate	0.7405	0.7277	0.7216	0.6672 0.7615	0.7257	Ave		0.7240			0.0100	4.3		20.0			
Di-n-octyl phthalate	1.3992	1.3960	1.3663	1.1925 1.4485	1.3653	Ave		1.3613			0.0100	6.5		20.0			
Benzo[b]fluoranthene	1.0844 1.1496	1.0965 1.2189	1.0521 1.1587	1.0111 1.3297	1.1140	Ave		1.1350			0.7000	8.4		20.0			
Benzo[k]fluoranthene	1.2047 1.2349	1.1295 1.2024	1.2116 1.2585	1.1723 1.2656	1.2757	Ave		1.2172			0.7000	3.9		20.0			
Benzo[a]pyrene	0.9453 1.0305	0.9545 1.0681	0.9642 1.0999	0.9326 1.1715	1.0378	Ave		1.0227			0.7000	7.9		20.0			
Indeno[1,2,3-cd]pyrene	0.7143 0.8630	0.7346 0.9569	0.7488 1.0076	0.7345 1.0859	0.7995	Ave		0.8494			0.5000	16.1		20.0			
Dibenz(a,h)anthracene	0.7066 0.9143	0.7001 0.9979	0.7801 1.0426	0.7909 1.1009	0.9048	Ave		0.8820			0.4000	16.6		20.0			
Benzo[g,h,i]perylene	0.8995	0.9873	1.0335	0.8040 1.0887	0.8758	Ave		0.9481			0.5000	11.3		20.0			
2-Fluorophenol (Surr)	1.3136	1.2082 1.3445	1.4125 1.2464	1.4249 1.4615	1.3809	Ave		1.3491				6.6		20.0			
Phenol-d5 (Surr)	1.4805	1.5142 1.4522	1.7725 1.2969	1.7392 1.4894	1.6238	Ave		1.5461				10.2		20.0			
Nitrobenzene-d5 (Surr)	0.3577 0.3738	0.3661 0.3905	0.4313 0.3617	0.4129 0.4062	0.4013	Ave		0.3891				6.6		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 Edison Job No.: 460-112518-1 Analy Batch No.: 363141
 SDG No.: _____
 Instrument ID: CBNAMS5 GC Column: Rtxi-5Sil M ID: 0.25 (mm) Heated Purge: (Y/N) N
 Calibration Start Date: 04/18/2016 11:44 Calibration End Date: 04/18/2016 15:17 Calibration ID: 55341

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													
2-Fluorobiphenyl	1.5026 1.5136	1.4654 1.5761	1.7092 1.4733	1.6200 1.6590	1.5994	Ave		1.5687				5.5		20.0			
2,4,6-Tribromophenol (Surr)	0.2304	0.1370 0.2716	0.1921 0.2660	0.2249 0.3403	0.2289	QuaF		0.1865	0.0012465						0.9970		0.9900
Terphenyl-d14 (Surr)	0.9759 1.0680	1.0077 1.2096	1.1517 1.1600	1.1770 1.3973	1.1364	Ave		1.1426				10.8		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 Edison Job No.: 460-112518-1 Analy Batch No.: 363141

SDG No.: _____

Instrument ID: CBNAMS5 GC Column: Rtxi-5Sil M ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/18/2016 11:44 Calibration End Date: 04/18/2016 15:17 Calibration ID: 55341

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD05 460-363141/10	x12973.D
Level 2	STD1 460-363141/9	x12972.D
Level 3	STD2 460-363141/8	x12971.D
Level 4	STD5 460-363141/7	x12970.D
Level 5	STD10 460-363141/6	x12969.D
Level 6	STD20 460-363141/5	x12968.D
Level 7	ICIS 460-363141/2	x12965.D
Level 8	STD80 460-363141/4	x12967.D
Level 9	STD120 460-363141/3	x12966.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
1,4-Dioxane	DCB	Ave	306944	743925	1080369	88381 1640694	171662	20.0	50.0	80.0	5.00 120	10.0
N-Nitrosodimethylamine	DCB	Ave	409890	976605	1365649	114404 2096436	224540	20.0	50.0	80.0	5.00 120	10.0
Pyridine	DCB	Ave	713189	1658649	2354519	203430 3546273	399541	20.0	50.0	80.0	5.00 120	10.0
Phenol	DCB	Ave	980163	2054115	2856055	295886 4367878	564702	20.0	50.0	80.0	5.00 120	10.0
Aniline	DCB	Ave	1067348	2295344	3213711	320044 4924093	608089	20.0	50.0	80.0	5.00 120	10.0
Bis(2-chloroethyl)ether	DCB	Ave	20568 644336	39144 1488339	79729 2110683	193402 3327640	371102	0.500 20.0	1.00 50.0	2.00 80.0	5.00 120	10.0
2-Chlorophenol	DCB	Ave	813989	1844118	2559995	238797 3778172	448790	20.0	50.0	80.0	5.00 120	10.0
n-Decane	DCB	Ave	949041	2114775	3002435	278576 4529826	538483	20.0	50.0	80.0	5.00 120	10.0
1,3-Dichlorobenzene	DCB	Ave	1005468	2294590	3216965	295127 4786786	564621	20.0	50.0	80.0	5.00 120	10.0
1,4-Dichlorobenzene	DCB	Ave	1013308	2277675	3176892	286292 4556462	560486	20.0	50.0	80.0	5.00 120	10.0
Benzyl alcohol	DCB	Ave	477854	1118103	1510328	139287 2303393	268576	20.0	50.0	80.0	5.00 120	10.0
1,2-Dichlorobenzene	DCB	Ave	946073	2079419	2844327	283316 4075367	526253	20.0	50.0	80.0	5.00 120	10.0
2-Methylphenol	DCB	Ave	709260	1541145	2056121	207740 3050872	394604	20.0	50.0	80.0	5.00 120	10.0
2,2'-oxybis[1-chloropropane]	DCB	Ave	1033676	2294903	3082075	304685 4498379	579882	20.0	50.0	80.0	5.00 120	10.0

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

Lab Name: TestAmerica Edison Job No.: 460-112518-1 Analy Batch No.: 363141
SDG No.: _____
Instrument ID: CBNAM5 GC Column: Rtxi-5Sil M ID: 0.25 (mm) Heated Purge: (Y/N) N
Calibration Start Date: 04/18/2016 11:44 Calibration End Date: 04/18/2016 15:17 Calibration ID: 55341

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
Acetophenone	DCB	Ave	873606	1895438	2677908	280075 4097402	515175	20.0	50.0	80.0	5.00 120	10.0
N-Nitrosodi-n-propylamine	DCB	Ave	14762 416232	29747 911866	52648 1302136	133521 2002015	244688	0.500 20.0	1.00 50.0	2.00 80.0	5.00 120	10.0
3 & 4 Methylphenol	DCB	Ave	702535	1478351	2065257	210521 3040629	398773	20.0	50.0	80.0	5.00 120	10.0
4-Methylphenol	DCB	Ave	702535	1478351	2065257	210521 3040629	398773	20.0	50.0	80.0	5.00 120	10.0
Hexachloroethane	DCB	Ave	10469 342703	21304 780044	39315 1083938	99747 1608393	195832	0.500 20.0	1.00 50.0	2.00 80.0	5.00 120	10.0
Nitrobenzene	NPT	Ave	29625 935462	56077 2027742	108065 2798141	287892 4187402	539540	0.500 20.0	1.00 50.0	2.00 80.0	5.00 120	10.0
n,n'-Dimethylaniline	DCB	Ave	36487 1084148	67282 2384012	131200 3189071	341412 4838671	617908	0.500 20.0	1.00 50.0	2.00 80.0	5.00 120	10.0
Isophorone	NPT	Ave	1136396	2554958	133226 3602283	349855 5540107	647314	20.0	50.0	2.00 80.0	5.00 120	10.0
2-Nitrophenol	NPT	Ave	410696	914069	1275724	112126 1952588	229258	20.0	50.0	80.0	5.00 120	10.0
2,4-Dimethylphenol	NPT	Ave	659199	1432976	1994265	199847 2911023	372375	20.0	50.0	80.0	5.00 120	10.0
Bis(2-chloroethoxy)methane	NPT	Ave	691221	1523427	2103628	208762 3162225	386704	20.0	50.0	80.0	5.00 120	10.0
Benzoic acid	NPT	Lin2	287551	772332	1061430	48249 1752260	116267	20.0	50.0	80.0	5.00 120	10.0
2,4-Dichlorophenol	NPT	Ave	657601	1463590	2018845	68198 196642	376030	20.0	50.0	2.00 80.0	5.00 120	10.0
1,2,4-Trichlorobenzene	NPT	Ave	23072 738872	44818 1708253	83172 2334378	221609 3508908	423104	0.500 20.0	1.00 50.0	2.00 80.0	5.00 120	10.0
Naphthalene	NPT	Ave	2092480	4487837	6268226	635735 8911704	1196554	20.0	50.0	80.0	5.00 120	10.0
4-Chloroaniline	NPT	Ave	790284	1667194	2312918	246546 3444374	451603	20.0	50.0	80.0	5.00 120	10.0
Hexachlorobutadiene	NPT	Ave	491842	1144573	1637980	28466 55916	271703	20.0	1.00 50.0	2.00 80.0	5.00 120	10.0
4-Chloro-3-methylphenol	NPT	Ave	526125	1149476	1536073	162469 2285092	307574	20.0	50.0	80.0	5.00 120	10.0
2-Methylnaphthalene	NPT	Ave	1427337	2989336	4183641	432218 6110133	821515	20.0	50.0	80.0	5.00 120	10.0
1-Methylnaphthalene	NPT	Ave	1209100	2609924	3536579	374460 5244648	693948	20.0	50.0	80.0	5.00 120	10.0
Hexachlorocyclopentadiene	ANT	Ave	439693	1017222	1643081	107125 2438500	225045	20.0	50.0	80.0	5.00 120	10.0

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

Lab Name: TestAmerica Edison Job No.: 460-112518-1 Analy Batch No.: 363141

SDG No.: _____

Instrument ID: CBNAMS5 GC Column: Rtxi-5Sil M ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/18/2016 11:44 Calibration End Date: 04/18/2016 15:17 Calibration ID: 55341

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
1,2,4,5-Tetrachlorobenzene	ANT	Ave	678068	1497742	2155811	203614 3183122	388230	20.0	50.0	80.0	5.00 120	10.0
2-tertbutyl-4-methylphenol	NPT	Ave	895410	1989320	2679147	286301 4002252	516751	20.0	50.0	80.0	5.00 120	10.0
2,4,6-Trichlorophenol	ANT	Ave	415959	927614	37213 1302770	114922 1944269	226385	20.0	50.0	2.00 80.0	5.00 120	10.0
2,4,5-Trichlorophenol	ANT	Ave	422828	941674	1285776	124832 1944562	236957	20.0	50.0	80.0	5.00 120	10.0
1,1'-Biphenyl	ANT	Ave	1630157	3379220	4619139	497751 6576170	921278	20.0	50.0	80.0	5.00 120	10.0
2-Chloronaphthalene	ANT	Ave	1248851	2562040	3548886	383307 5156489	699813	20.0	50.0	80.0	5.00 120	10.0
Phenyl ether	ANT	Ave	873050	1969497	2546134	271519 3788291	497743	20.0	50.0	80.0	5.00 120	10.0
2-Nitroaniline	ANT	Ave	362946	764543	1025953	112445 1549931	201805	20.0	50.0	80.0	5.00 120	10.0
1,3-Dimethylnaphthalene	ANT	Ave	985419	2205926	2647120	327221 4026927	587271	20.0	50.0	80.0	5.00 120	10.0
Dimethyl phthalate	ANT	Ave	1131852	2407578	3182995	368717 4692395	665562	20.0	50.0	80.0	5.00 120	10.0
Coumarin	NPT	Ave	360323	769746	969303	120273 1480594	208916	20.0	50.0	80.0	5.00 120	10.0
2,6-Dinitrotoluene	ANT	Ave	270043	15950 572201	31170 782119	81139 1151260	148925	20.0	1.00 50.0	2.00 80.0	5.00 120	10.0
Acenaphthylene	ANT	Ave	1726735	3743661	4960750	536061 7190361	989858	20.0	50.0	80.0	5.00 120	10.0
3-Nitroaniline	ANT	Ave	272982	594008	788276	84281 1185294	152261	20.0	50.0	80.0	5.00 120	10.0
Acenaphthene	ANT	Ave	1067676	2187261	2914537	348122 4235649	627533	20.0	50.0	80.0	5.00 120	10.0
3,5-di-tert-butyl-4-hydroxytol	ANT	Ave	1222815	2797027	3711010	381016 5547669	694151	20.0	50.0	80.0	5.00 120	10.0
2,4-Dinitrophenol	ANT	Lin2	278482	656588	10829 952758	61155 1479852	137150	40.0	100	4.00 160	10.0 240	20.0
4-Nitrophenol	ANT	Ave	321473	707059	956431	91783 1526429	170641	40.0	100	160	10.0 240	20.0
2,4-Dinitrotoluene	ANT	Ave	314603	18069 643060	34956 853447	96749 1282077	178629	20.0	1.00 50.0	2.00 80.0	5.00 120	10.0
Dibenzofuran	ANT	Ave	1604763	3402887	4404485	505638 6481873	937835	20.0	50.0	80.0	5.00 120	10.0
2,3,4,6-Tetrachlorophenol	ANT	Ave	311339	712731	968345	86756 1506766	166306	20.0	50.0	80.0	5.00 120	10.0

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

Lab Name: TestAmerica Edison Job No.: 460-112518-1 Analy Batch No.: 363141

SDG No.: _____

Instrument ID: CBNAMS5 GC Column: Rtxi-5Sil M ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/18/2016 11:44 Calibration End Date: 04/18/2016 15:17 Calibration ID: 55341

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
Diethyl phthalate	ANT	Ave	1055876	2255249	2969133	323643 4341442	605730	20.0	50.0	80.0	5.00 120	10.0
Fluorene	ANT	Ave	1171848	2445759	3249319	385275 4712302	690228	20.0	50.0	80.0	5.00 120	10.0
4-Chlorophenyl phenyl ether	ANT	Ave	623234	1328088	1777787	197100 2599006	362193	20.0	50.0	80.0	5.00 120	10.0
4-Nitroaniline	ANT	Ave	229284	487184	650934	70214 873370	124063	20.0	50.0	80.0	5.00 120	10.0
4,6-Dinitro-2-methylphenol	PHN	Lin2	356735	810185	1125475	24281 93914	187588	40.0	100	4.00 160	10.0 240	20.0
N-Nitrosodiphenylamine	PHN	Ave	1667907	3520544	202438 4682743	539232 6962700	977009	40.0	100	4.00 160	10.0 240	20.0
1,2-Diphenylhydrazine	PHN	Ave	939879	1950213	2660331	296170 3866397	542075	20.0	50.0	80.0	5.00 120	10.0
4-Bromophenyl phenyl ether	PHN	Ave	365349	818421	1124796	109451 1712314	204003	20.0	50.0	80.0	5.00 120	10.0
Hexachlorobenzene	PHN	Ave	13708 439821	26485 1004936	48322 1399263	126707 2193641	236320	0.500 20.0	1.00 50.0	2.00 80.0	5.00 120	10.0
Pentachlorophenol	PHN	Lin2	426564	1028437	22738 1469476	101613 2343806	205143	40.0	100	4.00 160	10.0 240	20.0
Pentachloronitrobenzene	PHN	Ave	158110	357433	433286	47228 659636	85616	20.0	50.0	80.0	5.00 120	10.0
n-Octadecane	PHN	Ave	663044	1431602	1915201	204368 2914804	379434	20.0	50.0	80.0	5.00 120	10.0
Phenanthrene	PHN	Ave	1496371	3164783	4172051	478312 6263579	859780	20.0	50.0	80.0	5.00 120	10.0
Anthracene	PHN	Ave	1504544	3157264	4193578	473926 6276860	857606	20.0	50.0	80.0	5.00 120	10.0
Carbazole	PHN	Ave	1181994	2480585	3257794	370157 4891598	668688	20.0	50.0	80.0	5.00 120	10.0
Di-n-butyl phthalate	PHN	Ave	1390746	2954328	4039554	422706 6071533	782109	20.0	50.0	80.0	5.00 120	10.0
Fluoranthene	PHN	Ave	1305110	2822587	3826140	393218 5639705	730002	20.0	50.0	80.0	5.00 120	10.0
Benzidine	PHN	Ave	579803	1250850	2121130	167307 3001279	283839	20.0	50.0	80.0	5.00 120	10.0
Pyrene	CRY	Ave	1312198	2805299	3760072	393392 5552177	719404	20.0	50.0	80.0	5.00 120	10.0
Bisphenol-A	CRY	Ave	406232	1029652	1490594	111826 2268568	211222	20.0	50.0	80.0	5.00 120	10.0
Butyl benzyl phthalate	CRY	Ave	455714	1004568	1404876	128869 2066842	242040	20.0	50.0	80.0	5.00 120	10.0

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

Lab Name: TestAmerica Edison Job No.: 460-112518-1 Analy Batch No.: 363141

SDG No.: _____

Instrument ID: CBNAMS5 GC Column: Rtxi-5Sil M ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/18/2016 11:44 Calibration End Date: 04/18/2016 15:17 Calibration ID: 55341

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
2,3,7,8-TCDD	CRY	Ave		3622					0.500			
Carbamazepine	CRY	Qua	274677	694609	1092271	1688213	109360	20.0	50.0	80.0	5.00 120	10.0
3,3'-Dichlorobenzidine	CRY	Ave	365777	835156	1250349	1812931	180894	20.0	50.0	80.0	5.00 120	10.0
Benzo[a]anthracene	CRY	Ave	37919 992768	66765 2165051	110174 3069468	283235 4647662	533264	0.500 20.0	1.00 50.0	2.00 80.0	5.00 120	10.0
Chrysene	CRY	Ave	885895	1950133	2718849	258228 4176378	481044	20.0	50.0	80.0	5.00 120	10.0
Bis(2-ethylhexyl) phthalate	CRY	Ave	629937	1376272	1913632	170106 2831781	330982	20.0	50.0	80.0	5.00 120	10.0
Di-n-octyl phthalate	PRY	Ave	937849	2102691	2973882	236766 4408931	472377	20.0	50.0	80.0	5.00 120	10.0
Benzo[b]fluoranthene	PRY	Ave	23678 770583	45263 1836035	74735 2522060	200735 4047234	385437	0.500 20.0	1.00 50.0	2.00 80.0	5.00 120	10.0
Benzo[k]fluoranthene	PRY	Ave	26303 827752	46627 1811146	86066 2739151	232740 3852124	441396	0.500 20.0	1.00 50.0	2.00 80.0	5.00 120	10.0
Benzo[a]pyrene	PRY	Ave	20640 690713	39404 1608854	68493 2394054	185161 3565645	359061	0.500 20.0	1.00 50.0	2.00 80.0	5.00 120	10.0
Indeno[1,2,3-cd]pyrene	PRY	Ave	15597 578460	30323 1441373	53190 2193088	145820 3305217	276612	0.500 20.0	1.00 50.0	2.00 80.0	5.00 120	10.0
Dibenz(a,h)anthracene	PRY	Ave	15429 612861	28902 1503111	55412 2269363	157034 3350755	313065	0.500 20.0	1.00 50.0	2.00 80.0	5.00 120	10.0
Benzo[g,h,i]perylene	PRY	Ave	602952	1487188	2249375	159621 3313847	303026	20.0	50.0	80.0	5.00 120	10.0
2-Fluorophenol (Surr)	DCB	Ave	772031	39924 1951643	89257 2631211	238386 4496019	436094	20.0	1.00 50.0	2.00 80.0	5.00 120	10.0
Phenol-d5 (Surr)	DCB	Ave	870162	50036 2107929	112008 2737881	290955 4581908	512805	20.0	1.00 50.0	2.00 80.0	5.00 120	10.0
Nitrobenzene-d5 (Surr)	NPT	Ave	20269 714395	41530 1774280	89418 2366136	234647 3915750	424577	0.500 20.0	1.00 50.0	2.00 80.0	5.00 120	10.0
2-Fluorobiphenyl	ANT	Ave	47024 1471188	91735 3571288	195477 4589834	500293 7507621	871998	0.500 20.0	1.00 50.0	2.00 80.0	5.00 120	10.0
2,4,6-Tribromophenol (Surr)	ANT	QuaF	223908	8579 615452	21974 828670	69442 1539880	124800	20.0	1.00 50.0	2.00 80.0	5.00 120	10.0
Terphenyl-d14 (Surr)	CRY	Ave	27696 908505	56006 2287768	113206 3075994	300070 5196254	518256	0.500 20.0	1.00 50.0	2.00 80.0	5.00 120	10.0

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

Lab Name: TestAmerica Edison Job No.: 460-112518-1 Analy Batch No.: 363141
SDG No.: _____
Instrument ID: CBNAMS5 GC Column: Rtxi-5Sil M ID: 0.25 (mm) Heated Purge: (Y/N) N
Calibration Start Date: 04/18/2016 11:44 Calibration End Date: 04/18/2016 15:17 Calibration ID: 55341

Curve Type Legend:

Ave = Average ISTD
Lin2 = Linear 1/conc^2 ISTD
Qua = Quadratic ISTD
QuaF = Quadratic ISTD forced zero

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS5\20160418-39964.b\12965.D
 Lims ID: icis
 Client ID:
 Sample Type: ICIS Calib Level: 7
 Inject. Date: 18-Apr-2016 11:44:30 ALS Bottle#: 2 Worklist Smp#: 2
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 460-0039942-002
 Misc. Info.: ccvis
 Operator ID: Instrument ID: CBNAMS5
 Sublist: chrom-8270_5R*sub37
 Method: \\ChromNA\Edison\ChromData\CBNAMS5\20160418-39964.b\8270_5R.m
 Limit Group: SV 8270D ICAL
 Last Update: 18-Apr-2016 17:19:45 Calib Date: 18-Apr-2016 15:17:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Edison\ChromData\CBNAMS5\20160418-39964.b\12973.D
 Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK009

First Level Reviewer: croccom

Date: 18-Apr-2016 12:31:27

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	1.463	1.463	0.000	97	743925	50.0	48.8	
2 N-Nitrosodimethylamine	74	1.687	1.687	0.000	73	976605	50.0	49.3	
3 Pyridine	79	1.710	1.710	0.000	84	1658649	50.0	48.2	
\$ 4 2-Fluorophenol	112	2.804	2.804	0.000	95	1951643	50.0	49.8	
\$ 6 Phenol-d5	99	3.740	3.740	0.000	91	2107929	50.0	47.0	
7 Phenol	94	3.751	3.751	0.000	93	2054115	50.0	45.1	
8 Aniline	93	3.751	3.751	0.000	94	2295344	50.0	45.8	
9 Bis(2-chloroethyl)ether	93	3.828	3.828	0.000	98	1488339	50.0	45.1	
10 Benzonitrile	103	3.845	3.845	0.000	66	3127176	NC	NC	
11 2-Chlorophenol	128	3.875	3.875	0.000	96	1844118	50.0	48.0	
12 n-Decane	43	3.940	3.940	0.000	91	2114775	50.0	46.8	
13 1,3-Dichlorobenzene	146	4.028	4.028	0.000	96	2294590	50.0	47.8	
* 14 1,4-Dichlorobenzene-d4	152	4.081	4.081	0.000	96	1161225	40.0	40.0	
15 1,4-Dichlorobenzene	146	4.098	4.098	0.000	96	2277675	50.0	48.2	
16 Benzyl alcohol	108	4.234	4.234	0.000	93	1118103	50.0	48.8	
17 1,2-Dichlorobenzene	146	4.251	4.251	0.000	97	2079419	50.0	47.4	
18 2-Methylphenol	108	4.357	4.357	0.000	92	1541145	50.0	47.4	
19 2,2'-oxybis[1-chloropropan	45	4.375	4.375	0.000	92	2294903	50.0	47.8	
20 N-Methylaniline	106	4.487	4.487	0.000	85	2412158	NC	NC	
21 Acetophenone	105	4.504	4.504	0.000	95	1895438	50.0	45.0	
22 N-Nitrosodi-n-propylamine	70	4.510	4.510	0.000	94	911866	50.0	41.5	
23 3 & 4 Methylphenol	108	4.522	4.522	0.000	94	1478351	50.0	45.6	
24 4-Methylphenol	108	4.522	4.522	0.000	93	1478351	50.0	45.6	
25 Hexachloroethane	117	4.592	4.592	0.000	88	780044	50.0	45.8	
\$ 26 Nitrobenzene-d5	82	4.645	4.645	0.000	91	1774280	50.0	50.2	
28 Nitrobenzene	77	4.669	4.669	0.000	93	2027742	50.0	46.1	
27 n,n'-Dimethylaniline	120	4.675	4.675	0.000	92	2384012	50.0	43.7	
31 Isophorone	82	4.916	4.916	0.000	98	2554958	50.0	47.4	
32 2-Nitrophenol	139	4.987	4.987	0.000	90	914069	50.0	49.2	
33 2,4-Dimethylphenol	122	5.051	5.051	0.000	91	1432976	50.0	48.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
34 Bis(2-chloroethoxy)methane	93	5.140	5.140	0.000	100	1523427	50.0	48.4	
35 Benzoic acid	122	5.204	5.204	0.000	89	772332	50.0	51.3	
36 2,4-Dichlorophenol	162	5.234	5.234	0.000	96	1463590	50.0	48.8	
37 1,2,4-Trichlorobenzene	180	5.316	5.316	0.000	94	1708253	50.0	48.7	
* 38 Naphthalene-d8	136	5.369	5.369	0.000	99	3634515	40.0	40.0	
39 Naphthalene	128	5.387	5.387	0.000	100	4487837	50.0	47.7	
40 4-Chloroaniline	127	5.451	5.451	0.000	96	1667194	50.0	46.8	
41 Hexachlorobutadiene	225	5.528	5.528	0.000	98	1144573	50.0	49.5	
43 4-Chloro-3-methylphenol	107	5.951	5.951	0.000	96	1149476	50.0	48.1	
44 2-Methylnaphthalene	142	6.081	6.081	0.000	87	2989336	50.0	46.8	
45 1-Methylnaphthalene	142	6.181	6.181	0.000	93	2609924	50.0	47.8	
46 Hexachlorocyclopentadiene	237	6.251	6.251	0.000	96	1017222	50.0	49.4	
47 1,2,4,5-Tetrachlorobenzene	216	6.257	6.257	0.000	98	1497742	50.0	48.1	
48 2-tertbutyl-4-methylphenol	149	6.304	6.304	0.000	91	1989320	50.0	48.2	
49 2,4,6-Trichlorophenol	196	6.369	6.369	0.000	92	927614	50.0	51.2	
50 2,4,5-Trichlorophenol	196	6.404	6.404	0.000	97	941674	50.0	49.2	
\$ 51 2-Fluorobiphenyl	172	6.457	6.457	0.000	98	3571288	50.0	50.2	
52 1,1'-Biphenyl	154	6.551	6.551	0.000	94	3379220	50.0	47.6	
53 2-Chloronaphthalene	162	6.563	6.563	0.000	99	2562040	50.0	47.0	
54 Phenyl ether	170	6.657	6.657	0.000	85	1969497	50.0	50.0	
56 2-Nitroaniline	65	6.675	6.675	0.000	95	764543	50.0	47.8	
57 1,3-Dimethylnaphthalene	156	6.786	6.786	0.000	93	2205926	50.0	49.8	
58 Dimethyl phthalate	163	6.869	6.869	0.000	99	2407578	50.0	47.6	
59 Coumarin	146	6.875	6.875	0.000	81	769746	50.0	47.6	
60 2,6-Dinitrotoluene	165	6.916	6.916	0.000	95	572201	50.0	48.1	
61 Acenaphthylene	152	6.975	6.975	0.000	98	3743661	50.0	48.8	
64 3-Nitroaniline	138	7.081	7.081	0.000	96	594008	50.0	48.8	
* 65 Acenaphthene-d10	164	7.116	7.116	0.000	90	1812776	40.0	40.0	
67 Acenaphthene	154	7.145	7.145	0.000	93	2187261	50.0	46.6	
66 3,5-di-tert-butyl-4-hydrox	205	7.157	7.157	0.000	96	2797027	50.0	49.9	
68 2,4-Dinitrophenol	184	7.186	7.186	0.000	94	656588	100.0	97.3	
69 4-Nitrophenol	65	7.263	7.263	0.000	89	707059	100.0	98.7	
70 2,4-Dinitrotoluene	165	7.316	7.316	0.000	92	643060	50.0	47.3	
71 Dibenzofuran	168	7.316	7.316	0.000	96	3402887	50.0	48.2	
72 2,3,4,6-Tetrachlorophenol	232	7.439	7.439	0.000	96	712731	50.0	50.6	
73 Diethyl phthalate	149	7.563	7.563	0.000	99	2255249	50.0	48.5	
75 Fluorene	166	7.651	7.651	0.000	95	2445759	50.0	47.0	
74 4-Chlorophenyl phenyl ethe	204	7.657	7.657	0.000	91	1328088	50.0	47.8	
76 4-Nitroaniline	138	7.686	7.686	0.000	83	487184	50.0	49.3	
77 4,6-Dinitro-2-methylphenol	198	7.716	7.716	0.000	89	810185	100.0	98.7	
78 N-Nitrosodiphenylamine	169	7.781	7.781	0.000	66	3520544	100.0	96.9	
79 1,2-Diphenylhydrazine	77	7.816	7.816	0.000	96	1950213	50.0	48.3	
\$ 80 2,4,6-Tribromophenol	330	7.886	7.886	0.000	91	615452	50.0	53.6	
81 4-Bromophenyl phenyl ether	248	8.133	8.133	0.000	94	818421	50.0	50.4	
83 Hexachlorobenzene	284	8.198	8.198	0.000	94	1004936	50.0	53.0	
85 Pentachlorophenol	266	8.392	8.392	0.000	95	1028437	100.0	100.1	
86 Pentachloronitrobenzene	237	8.404	8.404	0.000	91	357433	50.0	53.1	
87 n-Octadecane	57	8.492	8.492	0.000	97	1431602	50.0	49.5	
* 88 Phenanthrene-d10	188	8.563	8.563	0.000	97	2346578	40.0	40.0	
89 Phenanthrene	178	8.592	8.592	0.000	96	3164783	50.0	49.0	
90 Anthracene	178	8.639	8.639	0.000	99	3157264	50.0	48.9	
91 Carbazole	167	8.798	8.798	0.000	96	2480585	50.0	49.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
92 Di-n-butyl phthalate	149	9.157	9.157	0.000	100	2954328	50.0	49.1	
93 Fluoranthene	202	9.751	9.751	0.000	99	2822587	50.0	50.0	
94 Benzidine	184	9.886	9.886	0.000	99	1250850	50.0	47.7	
95 Pyrene	202	9.969	9.969	0.000	99	2805299	50.0	49.1	
82 Bisphenol-A	213	10.033	10.033	0.000	99	1029652	50.0	52.8	
\$ 96 Terphenyl-d14	244	10.133	10.133	0.000	98	2287768	50.0	52.9	
97 Butyl benzyl phthalate	149	10.639	10.639	0.000	96	1004568	50.0	50.0	
98 2,3,7,8-TCDD	320	10.727	10.727	0.000	90	3622	0.5000	0.5000	
99 Carbamazepine	193	10.745	10.745	0.000	91	694609	50.0	49.5	
100 3,3'-Dichlorobenzidine	252	11.216	11.216	0.000	98	835156	50.0	52.5	
101 Benzo[a]anthracene	228	11.233	11.233	0.000	97	2165051	50.0	48.3	
* 102 Chrysene-d12	240	11.245	11.245	0.000	98	1513059	40.0	40.0	
103 Chrysene	228	11.274	11.274	0.000	100	1950133	50.0	49.2	
104 Bis(2-ethylhexyl) phthalat	149	11.304	11.304	0.000	87	1376272	50.0	50.3	
105 Di-n-octyl phthalate	149	12.121	12.121	0.000	97	2102691	50.0	51.3	
106 Benzo[b]fluoranthene	252	12.574	12.574	0.000	97	1836035	50.0	53.7	
107 Benzo[k]fluoranthene	252	12.610	12.610	0.000	97	1811146	50.0	49.4	
108 Benzo[a]pyrene	252	12.998	12.998	0.000	98	1608854	50.0	52.2	
* 109 Perylene-d12	264	13.074	13.074	0.000	99	1205002	40.0	40.0	
110 Indeno[1,2,3-cd]pyrene	276	14.492	14.492	0.000	97	1441373	50.0	56.3	
111 Dibenz(a,h)anthracene	278	14.527	14.527	0.000	100	1503111	50.0	56.6	
112 Benzo[g,h,i]perylene	276	14.862	14.862	0.000	92	1487188	50.0	52.1	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

SV_IC_BNA_L6_00018

Amount Added: 1.00

Units: mL

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CBNAMS5\\20160418-39964.b\\x12965.D

Injection Date: 18-Apr-2016 11:44:30

Instrument ID: CBNAMS5

Lims ID: icis

Operator ID:

Worklist Smp#: 2

Client ID:

Injection Vol: 1.0 ul

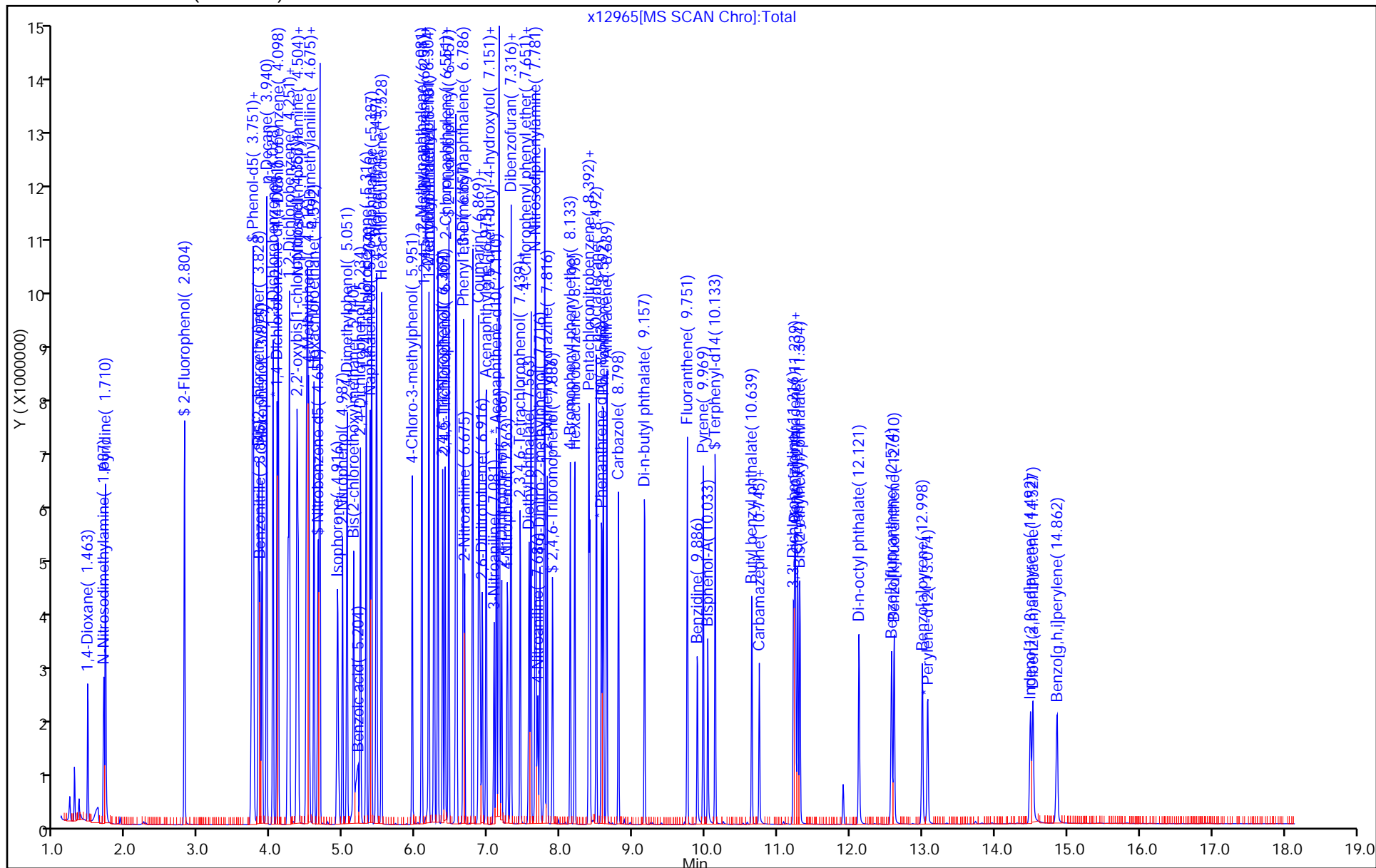
Dil. Factor: 1.0000

ALS Bottle#: 2

Method: 8270_5R

Limit Group: SV 8270D ICAL

Column: Rtxi-5Sil MS (0.25 mm)



TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS5\20160418-39964.b\12966.D
 Lims ID: std120
 Client ID:
 Sample Type: IC Calib Level: 9
 Inject. Date: 18-Apr-2016 12:26:30 ALS Bottle#: 3 Worklist Smp#: 3
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 460-0039964-003
 Operator ID: Instrument ID: CBNAMS5
 Sublist: chrom-8270_5R*sub37
 Method: \\ChromNA\Edison\ChromData\CBNAMS5\20160418-39964.b\8270_5R.m
 Limit Group: SV 8270D ICAL
 Last Update: 18-Apr-2016 17:20:00 Calib Date: 18-Apr-2016 15:17:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS5\20160418-39964.b\12973.D
 Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK009

First Level Reviewer: croccom

Date: 18-Apr-2016 14:13:51

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	1.463	1.463	0.000	98	1640694	120.0	121.8	
2 N-Nitrosodimethylamine	74	1.699	1.687	0.012	73	2096436	120.0	119.9	
3 Pyridine	79	1.710	1.710	0.000	84	3546273	120.0	116.8	
\$ 4 2-Fluorophenol	112	2.810	2.804	0.006	96	4496019	120.0	130.0	
\$ 6 Phenol-d5	99	3.763	3.740	0.023	88	4581908	120.0	115.6	
7 Phenol	94	3.775	3.751	0.024	95	4367878	120.0	108.6	
8 Aniline	93	3.763	3.751	0.012	97	4924093	120.0	111.3	
9 Bis(2-chloroethyl)ether	93	3.840	3.828	0.012	97	3327640	120.0	114.1	
10 Benzonitrile	103	3.869	3.845	0.024	66	6318902	NC	NC	
11 2-Chlorophenol	128	3.893	3.875	0.018	96	3778172	120.0	111.3	
12 n-Decane	43	3.945	3.940	0.005	91	4529826	120.0	113.5	
13 1,3-Dichlorobenzene	146	4.034	4.028	0.006	97	4786786	120.0	112.9	
* 14 1,4-Dichlorobenzene-d4	152	4.087	4.081	0.006	96	1025462	40.0	40.0	
15 1,4-Dichlorobenzene	146	4.104	4.098	0.006	94	4556462	120.0	109.2	
16 Benzyl alcohol	108	4.257	4.234	0.023	93	2303393	120.0	114.0	
17 1,2-Dichlorobenzene	146	4.257	4.251	0.006	96	4075367	120.0	105.1	
18 2-Methylphenol	108	4.369	4.357	0.012	88	3050872	120.0	106.2	
19 2,2'-oxybis[1-chloropropan	45	4.381	4.375	0.006	89	4498379	120.0	106.1	
20 N-Methylaniline	106	4.498	4.487	0.011	83	5028236	NC	NC	
21 Acetophenone	105	4.516	4.504	0.012	97	4097402	120.0	110.2	
22 N-Nitrosodi-n-propylamine	70	4.563	4.510	0.053	94	2002015	120.0	103.1	
23 3 & 4 Methylphenol	108	4.545	4.522	0.023	95	3040629	120.0	106.2	
24 4-Methylphenol	108	4.545	4.522	0.023	94	3040629	120.0	106.2	
25 Hexachloroethane	117	4.593	4.592	0.000	89	1608393	120.0	106.9	
\$ 26 Nitrobenzene-d5	82	4.663	4.645	0.018	92	3915750	120.0	125.3	
28 Nitrobenzene	77	4.693	4.669	0.023	88	4187402	120.0	107.8	
27 n,n'-Dimethylaniline	120	4.693	4.675	0.017	88	4838671	120.0	100.4	
31 Isophorone	82	4.940	4.916	0.024	98	5540107	120.0	116.3	M
32 2-Nitrophenol	139	4.998	4.987	0.011	90	1952588	120.0	118.8	
33 2,4-Dimethylphenol	122	5.063	5.051	0.012	90	2911023	120.0	110.3	
34 Bis(2-chloroethoxy)methane	93	5.151	5.140	0.011	100	3162225	120.0	113.6	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
35 Benzoic acid	122	5.263	5.204	0.059	92	1752260	120.0	127.4	M
36 2,4-Dichlorophenol	162	5.245	5.234	0.011	96	2964625	120.0	111.7	
37 1,2,4-Trichlorobenzene	180	5.322	5.316	0.006	94	3508908	120.0	113.1	
* 38 Naphthalene-d8	136	5.375	5.369	0.006	99	3213276	40.0	40.0	
39 Naphthalene	128	5.398	5.387	0.011	99	8911704	120.0	107.1	e
40 4-Chloroaniline	127	5.469	5.451	0.018	96	3444374	120.0	109.4	
41 Hexachlorobutadiene	225	5.528	5.528	0.000	98	2434569	120.0	119.1	
43 4-Chloro-3-methylphenol	107	5.957	5.951	0.006	97	2285092	120.0	108.2	
44 2-Methylnaphthalene	142	6.092	6.081	0.011	86	6110133	120.0	108.3	
45 1-Methylnaphthalene	142	6.187	6.181	0.006	93	5244648	120.0	108.6	
46 Hexachlorocyclopentadiene	237	6.257	6.251	0.006	98	2438500	120.0	142.3	
47 1,2,4,5-Tetrachlorobenzene	216	6.263	6.257	0.006	99	3183122	120.0	122.8	
48 2-tertbutyl-4-methylphenol	149	6.310	6.304	0.006	92	4002252	120.0	109.8	
49 2,4,6-Trichlorophenol	196	6.381	6.369	0.012	92	1944269	120.0	129.0	
50 2,4,5-Trichlorophenol	196	6.410	6.404	0.006	97	1944562	120.0	122.2	
\$ 51 2-Fluorobiphenyl	172	6.463	6.457	0.006	98	7507621	120.0	126.9	
52 1,1'-Biphenyl	154	6.563	6.551	0.012	93	6576170	120.0	111.2	
53 2-Chloronaphthalene	162	6.575	6.563	0.012	98	5156489	120.0	113.6	
54 Phenyl ether	170	6.663	6.657	0.006	85	3788291	120.0	115.6	
56 2-Nitroaniline	65	6.686	6.675	0.011	96	1549931	120.0	116.5	
57 1,3-Dimethylnaphthalene	156	6.792	6.786	0.006	94	4026927	120.0	109.3	
58 Dimethyl phthalate	163	6.886	6.869	0.017	99	4692395	120.0	111.4	
59 Coumarin	146	6.892	6.875	0.017	77	1480594	120.0	103.5	
60 2,6-Dinitrotoluene	165	6.934	6.916	0.018	94	1151260	120.0	116.3	
61 Acenaphthylene	152	6.981	6.975	0.006	98	7190361	120.0	112.6	
64 3-Nitroaniline	138	7.092	7.081	0.011	97	1185294	120.0	117.1	
* 65 Acenaphthene-d10	164	7.116	7.116	0.000	90	1508483	40.0	40.0	
67 Acenaphthene	154	7.151	7.145	0.006	92	4235649	120.0	108.5	
66 3,5-di-tert-butyl-4-hydrox	205	7.163	7.157	0.006	96	5547669	120.0	119.0	
68 2,4-Dinitrophenol	184	7.204	7.186	0.018	95	1479852	240.0	258.5	
69 4-Nitrophenol	65	7.286	7.263	0.023	89	1526429	240.0	256.0	
70 2,4-Dinitrotoluene	165	7.328	7.316	0.012	60	1282077	120.0	113.3	
71 Dibenzofuran	168	7.328	7.316	0.012	95	6481873	120.0	110.2	
72 2,3,4,6-Tetrachlorophenol	232	7.451	7.439	0.012	98	1506766	120.0	128.6	
73 Diethyl phthalate	149	7.575	7.563	0.012	99	4341442	120.0	112.3	
75 Fluorene	166	7.657	7.651	0.006	96	4712302	120.0	108.9	
74 4-Chlorophenyl phenyl ethe	204	7.663	7.657	0.006	92	2599006	120.0	112.5	
76 4-Nitroaniline	138	7.710	7.686	0.024	87	873370	120.0	106.3	
77 4,6-Dinitro-2-methylphenol	198	7.739	7.716	0.023	90	1751749	240.0	253.0	
78 N-Nitrosodiphenylamine	169	7.792	7.781	0.011	64	6962700	240.0	230.1	
79 1,2-Diphenylhydrazine	77	7.822	7.816	0.006	96	3866397	120.0	114.9	
\$ 80 2,4,6-Tribromophenol	330	7.898	7.886	0.012	89	1539880	120.0	121.0	
81 4-Bromophenyl phenyl ether	248	8.139	8.133	0.006	95	1712314	120.0	126.5	
83 Hexachlorobenzene	284	8.204	8.198	0.006	93	2193641	120.0	138.8	
85 Pentachlorophenol	266	8.398	8.392	0.006	96	2343806	240.0	269.2	
86 Pentachloronitrobenzene	237	8.410	8.404	0.006	92	659636	120.0	117.5	
87 n-Octadecane	57	8.498	8.492	0.006	95	2914804	120.0	120.9	
* 88 Phenanthrene-d10	188	8.569	8.563	0.006	98	1955434	40.0	40.0	
89 Phenanthrene	178	8.598	8.592	0.006	96	6263579	120.0	116.3	
90 Anthracene	178	8.645	8.639	0.006	99	6276860	120.0	116.6	
91 Carbazole	167	8.810	8.798	0.012	96	4891598	120.0	116.3	
92 Di-n-butyl phthalate	149	9.163	9.157	0.006	100	6071533	120.0	121.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
93 Fluoranthene	202	9.757	9.751	0.006	98	5639705	120.0	119.8	
94 Benzidine	184	9.898	9.886	0.012	99	3001279	120.0	137.2	
95 Pyrene	202	9.980	9.969	0.011	98	5552177	120.0	118.7	
82 Bisphenol-A	213	10.039	10.033	0.006	99	2268568	120.0	141.9	
\$ 96 Terphenyl-d14	244	10.145	10.133	0.012	98	5196254	120.0	146.7	
97 Butyl benzyl phthalate	149	10.651	10.639	0.012	95	2066842	120.0	125.5	
99 Carbamazepine	193	10.757	10.745	0.012	91	1688213	120.0	119.9	
100 3,3'-Dichlorobenzidine	252	11.227	11.216	0.011	97	1812931	120.0	139.0	
101 Benzo[a]anthracene	228	11.239	11.233	0.006	96	4647662	120.0	126.6	
* 102 Chrysene-d12	240	11.257	11.245	0.012	98	1239583	40.0	40.0	
103 Chrysene	228	11.286	11.274	0.012	100	4176378	120.0	128.6	
104 Bis(2-ethylhexyl) phthalat	149	11.310	11.304	0.006	87	2831781	120.0	126.2	
105 Di-n-octyl phthalate	149	12.127	12.121	0.006	97	4408931	120.0	127.7	
106 Benzo[b]fluoranthene	252	12.586	12.574	0.012	97	4047234	120.0	140.6	
107 Benzo[k]fluoranthene	252	12.621	12.610	0.011	97	3852124	120.0	124.8	
108 Benzo[a]pyrene	252	13.010	12.998	0.012	99	3565645	120.0	137.5	
* 109 Perylene-d12	264	13.074	13.074	0.000	99	1014594	40.0	40.0	
110 Indeno[1,2,3-cd]pyrene	276	14.504	14.492	0.012	97	3305217	120.0	153.4	
111 Dibenz(a,h)anthracene	278	14.539	14.527	0.012	100	3350755	120.0	149.8	
112 Benzo[g,h,i]perylene	276	14.880	14.862	0.018	96	3313847	120.0	137.8	
S 119 Total Cresols	1				0			212.4	

QC Flag Legend

Processing Flags

NC - Not Calibrated

e - Potential Peak Saturated

Review Flags

M - Manually Integrated

Reagents:

SV_IC_BNA_L8_00010

Amount Added: 1.00

Units: mL

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CBNAMS5\\20160418-39964.b\\x12966.D

Injection Date: 18-Apr-2016 12:26:30

Instrument ID: CBNAMS5

Operator ID:

Lims ID: std120

Worklist Smp#: 3

Client ID:

Injection Vol: 1.0 ul

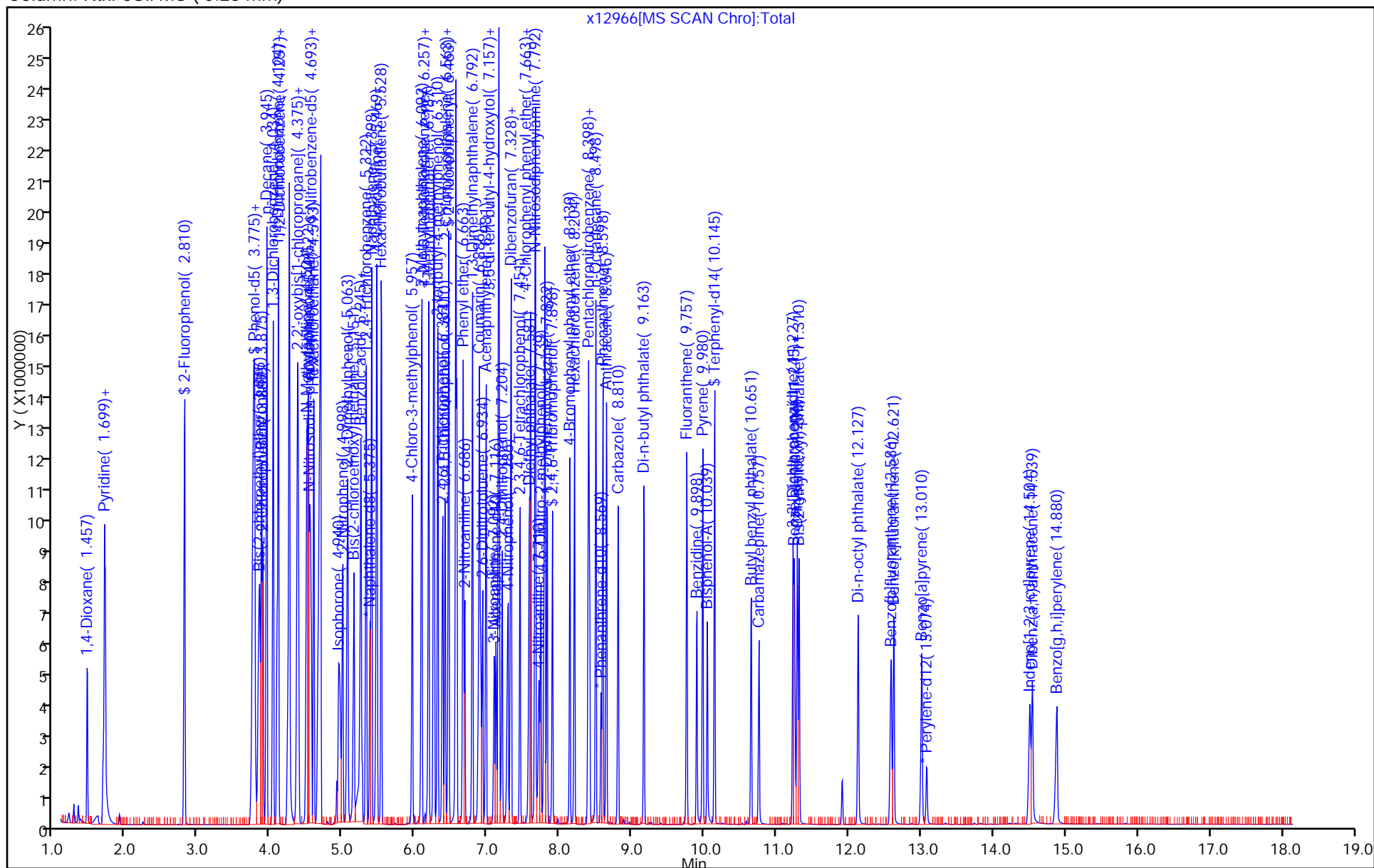
Dil. Factor: 1.0000

ALS Bottle#: 3

Method: 8270_5R

Limit Group: SV 8270D ICAL

Column: Rtxi-5Sil MS (0.25 mm)



TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS5\20160418-39964.b\12966.D

Injection Date: 18-Apr-2016 12:26:30

Instrument ID: CBNAMS5

Lims ID: std120

Client ID:

Operator ID:

ALS Bottle#:

3

Worklist Smp#: 3

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: 8270_5R

Limit Group: SV 8270D ICAL

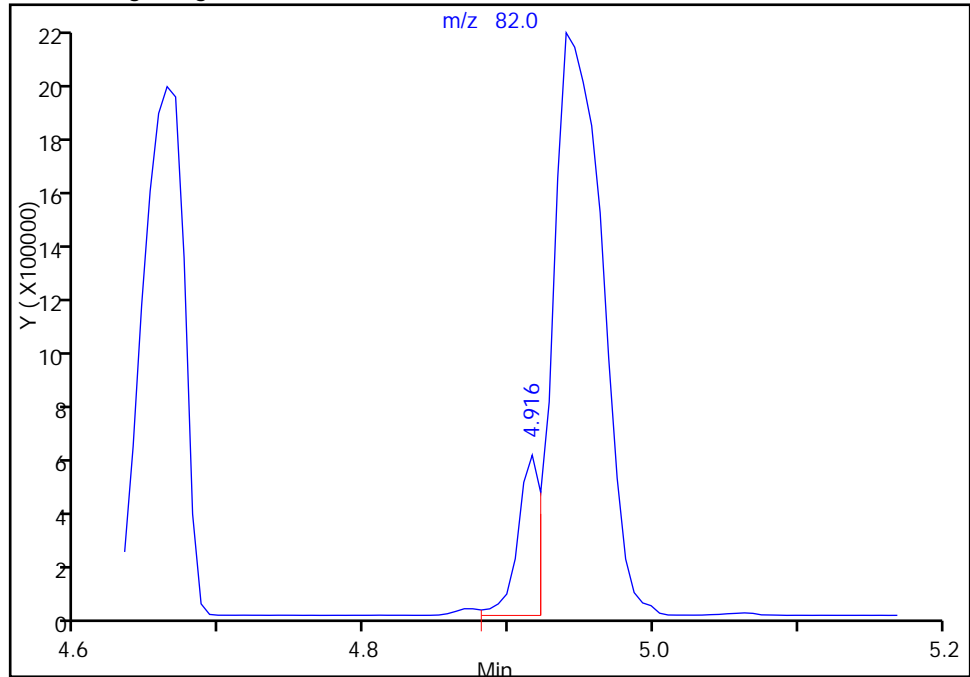
Column: Rtxi-5Sil MS (0.25 mm)

Detector: MS SCAN

31 Isophorone, CAS: 78-59-1

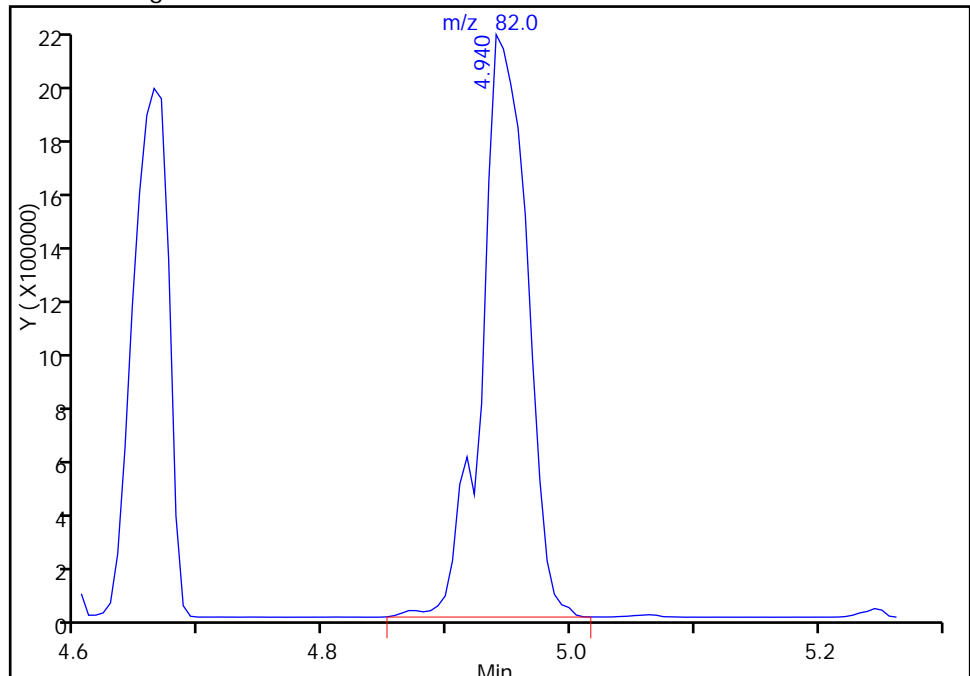
RT: 4.92
Area: 673446
Amount: 17.544168
Amount Units: ug/ml

Processing Integration Results



RT: 4.94
Area: 5540107
Amount: 116.2632
Amount Units: ug/ml

Manual Integration Results



Reviewer: croccom, 18-Apr-2016 14:13:51

Audit Action: Manually Integrated

Audit Reason: Split Peak

TestAmerica Edison

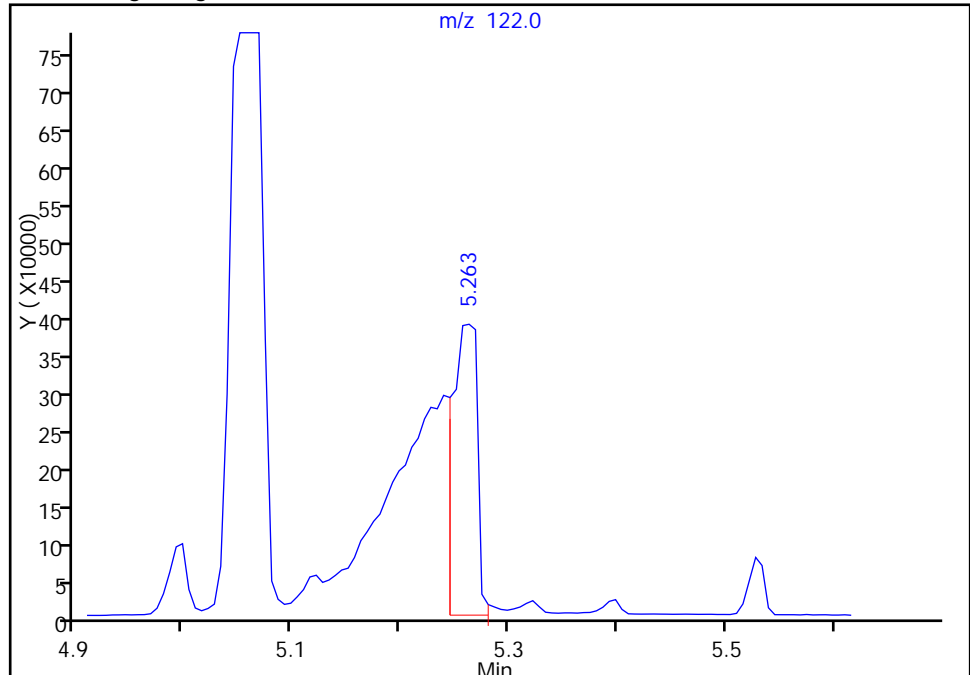
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Injection Date: 18-Apr-2016 12:26:30 Instrument ID: CBNAMS5
Lims ID: std120
Client ID:
Operator ID:
Injection Vol: 1.0 ul
Method: 8270_5R
Column: Rtxi-5Sil MS (0.25 mm)

ALS Bottle#: 3 Worklist Smp#: 3
Dil. Factor: 1.0000
Limit Group: SV 8270D ICAL
Detector: MS SCAN

35 Benzoic acid, CAS: 65-85-0

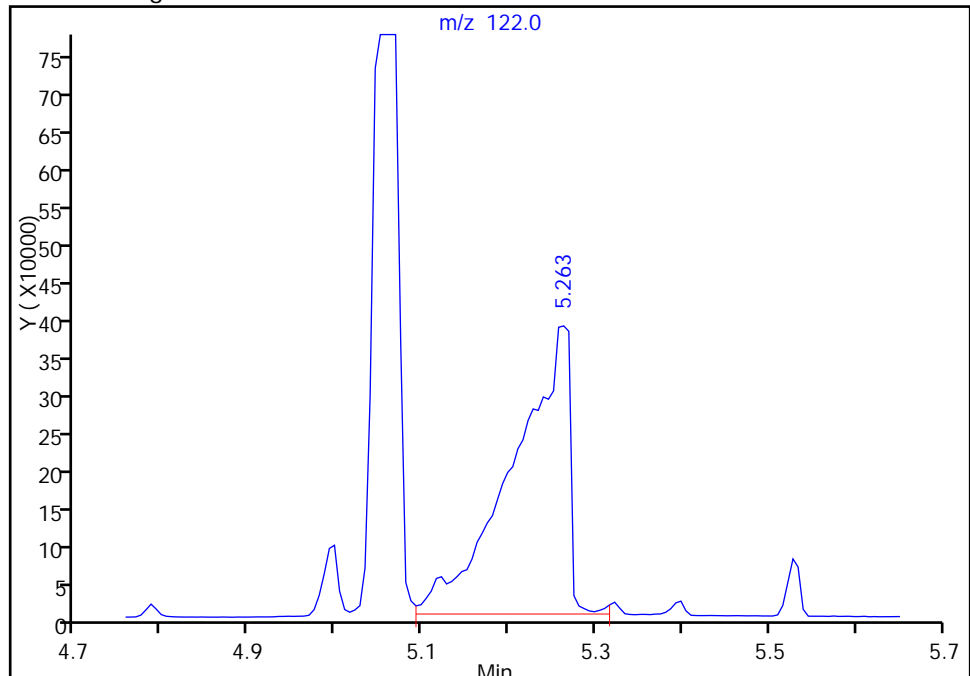
RT: 5.26
Area: 625190
Amount: 59.189433
Amount Units: ug/ml

Processing Integration Results



RT: 5.26
Area: 1752260
Amount: 127.3821
Amount Units: ug/ml

Manual Integration Results



Reviewer: croccom, 18-Apr-2016 14:13:51
Audit Action: Manually Integrated
Audit Reason: Split Peak

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS5\20160418-39964.b\12967.D
 Lims ID: std80
 Client ID:
 Sample Type: IC Calib Level: 8
 Inject. Date: 18-Apr-2016 12:50:30 ALS Bottle#: 4 Worklist Smp#: 4
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 460-0039964-004
 Operator ID: Instrument ID: CBNAMS5
 Sublist: chrom-8270_5R*sub37
 Method: \\ChromNA\Edison\ChromData\CBNAMS5\20160418-39964.b\8270_5R.m
 Limit Group: SV 8270D ICAL
 Last Update: 18-Apr-2016 17:20:10 Calib Date: 18-Apr-2016 15:17:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Edison\ChromData\CBNAMS5\20160418-39964.b\12973.D
 Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK009

First Level Reviewer: croccom

Date: 18-Apr-2016 14:23:47

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	1.469	1.463	0.006	96	1080369	80.0	77.9	
2 N-Nitrosodimethylamine	74	1.699	1.687	0.012	85	1365649	80.0	75.9	
3 Pyridine	79	1.710	1.710	0.000	83	2354519	80.0	75.3	
\$ 4 2-Fluorophenol	112	2.804	2.804	0.000	95	2631211	80.0	73.9	
\$ 6 Phenol-d5	99	3.745	3.740	0.005	90	2737881	80.0	67.1	
7 Phenol	94	3.763	3.751	0.012	95	2856055	80.0	69.0	
8 Aniline	93	3.757	3.751	0.006	96	3213711	80.0	70.5	
9 Bis(2-chloroethyl)ether	93	3.834	3.828	0.006	97	2110683	80.0	70.3	
10 Benzonitrile	103	3.857	3.845	0.012	66	4147908	NC	NC	
11 2-Chlorophenol	128	3.881	3.875	0.006	96	2559995	80.0	73.3	
12 n-Decane	43	3.945	3.940	0.005	90	3002435	80.0	73.1	
13 1,3-Dichlorobenzene	146	4.028	4.028	0.000	96	3216965	80.0	73.7	
* 14 1,4-Dichlorobenzene-d4	152	4.087	4.081	0.006	96	1055526	40.0	40.0	
15 1,4-Dichlorobenzene	146	4.104	4.098	0.006	95	3176892	80.0	74.0	
16 Benzyl alcohol	108	4.245	4.234	0.011	93	1510328	80.0	72.6	
17 1,2-Dichlorobenzene	146	4.257	4.251	0.006	96	2844327	80.0	71.3	
18 2-Methylphenol	108	4.363	4.357	0.006	90	2056121	80.0	69.5	
19 2,2'-oxybis[1-chloropropan	45	4.375	4.375	0.000	91	3082075	80.0	70.6	
20 N-Methylaniline	106	4.492	4.487	0.005	84	3238245	NC	NC	
21 Acetophenone	105	4.510	4.504	0.006	96	2677908	80.0	70.0	
22 N-Nitrosodi-n-propylamine	70	4.522	4.510	0.012	93	1302136	80.0	65.2	
23 3 & 4 Methylphenol	108	4.534	4.522	0.012	94	2065257	80.0	70.1	
24 4-Methylphenol	108	4.534	4.522	0.012	92	2065257	80.0	70.1	
25 Hexachloroethane	117	4.592	4.592	0.000	88	1083938	80.0	70.0	
\$ 26 Nitrobenzene-d5	82	4.657	4.645	0.012	92	2366136	80.0	74.4	
28 Nitrobenzene	77	4.681	4.669	0.012	90	2798141	80.0	70.7	
27 n,n'-Dimethylaniline	120	4.681	4.675	0.006	88	3189071	80.0	64.3	
31 Isophorone	82	4.928	4.916	0.012	98	3602283	80.0	74.3	
32 2-Nitrophenol	139	4.992	4.987	0.005	88	1275724	80.0	76.2	
33 2,4-Dimethylphenol	122	5.057	5.051	0.006	90	1994265	80.0	74.3	
34 Bis(2-chloroethoxy)methane	93	5.145	5.140	0.005	100	2103628	80.0	74.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
35 Benzoic acid	122	5.222	5.204	0.018	90	1061430	80.0	76.9	
36 2,4-Dichlorophenol	162	5.240	5.234	0.006	95	2018845	80.0	74.7	
37 1,2,4-Trichlorobenzene	180	5.316	5.316	0.000	94	2334378	80.0	73.9	
* 38 Naphthalene-d8	136	5.369	5.369	0.000	99	3270938	40.0	40.0	
39 Naphthalene	128	5.392	5.387	0.005	100	6268226	80.0	74.0	
40 4-Chloroaniline	127	5.463	5.451	0.012	97	2312918	80.0	72.2	
41 Hexachlorobutadiene	225	5.528	5.528	0.000	97	1637980	80.0	78.7	
43 4-Chloro-3-methylphenol	107	5.957	5.951	0.006	96	1536073	80.0	71.5	
44 2-Methylnaphthalene	142	6.087	6.081	0.005	86	4183641	80.0	72.8	
45 1-Methylnaphthalene	142	6.181	6.181	0.000	93	3536579	80.0	72.0	
46 Hexachlorocyclopentadiene	237	6.251	6.251	0.000	97	1643081	80.0	92.8	
47 1,2,4,5-Tetrachlorobenzene	216	6.257	6.257	0.000	98	2155811	80.0	80.5	
48 2-tertbutyl-4-methylphenol	149	6.310	6.304	0.006	92	2679147	80.0	72.2	
49 2,4,6-Trichlorophenol	196	6.375	6.369	0.006	92	1302770	80.0	83.7	
50 2,4,5-Trichlorophenol	196	6.410	6.404	0.006	98	1285776	80.0	78.2	
\$ 51 2-Fluorobiphenyl	172	6.457	6.457	0.000	98	4589834	80.0	75.1	
52 1,1'-Biphenyl	154	6.557	6.551	0.006	95	4619139	80.0	75.7	
53 2-Chloronaphthalene	162	6.569	6.563	0.006	98	3548886	80.0	75.7	
54 Phenyl ether	170	6.657	6.657	0.000	84	2546134	80.0	75.2	
56 2-Nitroaniline	65	6.681	6.675	0.006	96	1025953	80.0	74.7	
57 1,3-Dimethylnaphthalene	156	6.786	6.786	0.000	93	2647120	80.0	69.6	
58 Dimethyl phthalate	163	6.875	6.869	0.006	99	3182995	80.0	73.2	
59 Coumarin	146	6.881	6.875	0.006	77	969303	80.0	66.5	
60 2,6-Dinitrotoluene	165	6.928	6.916	0.012	96	782119	80.0	76.5	
61 Acenaphthylene	152	6.975	6.975	0.000	98	4960750	80.0	75.2	
64 3-Nitroaniline	138	7.086	7.081	0.005	96	788276	80.0	75.4	
* 65 Acenaphthene-d10	164	7.116	7.116	0.000	91	1557699	40.0	40.0	
67 Acenaphthene	154	7.151	7.145	0.006	92	2914537	80.0	72.3	
66 3,5-di-tert-butyl-4-hydrox	205	7.157	7.157	0.000	96	3711010	80.0	77.1	
68 2,4-Dinitrophenol	184	7.198	7.186	0.012	94	952758	160.0	162.2	
69 4-Nitrophenol	65	7.275	7.263	0.012	89	956431	160.0	155.3	
70 2,4-Dinitrotoluene	165	7.322	7.316	0.006	61	853447	80.0	73.1	
71 Dibenzofuran	168	7.322	7.316	0.006	94	4404485	80.0	72.5	
72 2,3,4,6-Tetrachlorophenol	232	7.445	7.439	0.006	97	968345	80.0	80.0	
73 Diethyl phthalate	149	7.569	7.563	0.006	99	2969133	80.0	74.3	
75 Fluorene	166	7.657	7.651	0.006	97	3249319	80.0	72.7	
74 4-Chlorophenyl phenyl ethe	204	7.663	7.657	0.006	94	1777787	80.0	74.5	
76 4-Nitroaniline	138	7.698	7.686	0.012	82	650934	80.0	76.7	
77 4,6-Dinitro-2-methylphenol	198	7.728	7.716	0.012	89	1125475	160.0	160.4	
78 N-Nitrosodiphenylamine	169	7.786	7.781	0.005	65	4682743	160.0	152.0	
79 1,2-Diphenylhydrazine	77	7.822	7.816	0.006	96	2660331	80.0	77.7	
\$ 80 2,4,6-Tribromophenol	330	7.892	7.886	0.006	90	828670	80.0	75.8	
81 4-Bromophenyl phenyl ether	248	8.139	8.133	0.006	94	1124796	80.0	81.6	
83 Hexachlorobenzene	284	8.198	8.198	0.000	93	1399263	80.0	87.0	
85 Pentachlorophenol	266	8.392	8.392	0.000	95	1469476	160.0	166.8	
86 Pentachloronitrobenzene	237	8.410	8.404	0.006	93	433286	80.0	75.8	
87 n-Octadecane	57	8.498	8.492	0.006	96	1915201	80.0	78.1	
* 88 Phenanthrene-d10	188	8.569	8.563	0.006	97	1990327	40.0	40.0	
89 Phenanthrene	178	8.592	8.592	0.000	96	4172051	80.0	76.1	
90 Anthracene	178	8.645	8.639	0.006	99	4193578	80.0	76.6	
91 Carbazole	167	8.804	8.798	0.006	96	3257794	80.0	76.1	
92 Di-n-butyl phthalate	149	9.163	9.157	0.006	100	4039554	80.0	79.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
93 Fluoranthene	202	9.751	9.751	0.000	99	3826140	80.0	79.9	
94 Benzidine	184	9.892	9.886	0.006	99	2121130	80.0	95.3	
95 Pyrene	202	9.974	9.969	0.005	98	3760072	80.0	75.1	
82 Bisphenol-A	213	10.039	10.033	0.006	99	1490594	80.0	87.2	
\$ 96 Terphenyl-d14	244	10.139	10.133	0.006	98	3075994	80.0	81.2	
97 Butyl benzyl phthalate	149	10.645	10.639	0.006	95	1404876	80.0	79.8	
99 Carbamazepine	193	10.751	10.745	0.006	91	1092271	80.0	80.4	
100 3,3'-Dichlorobenzidine	252	11.221	11.216	0.005	98	1250349	80.0	89.6	
101 Benzo[a]anthracene	228	11.239	11.233	0.006	96	3069468	80.0	78.2	
* 102 Chrysene-d12	240	11.251	11.245	0.006	98	1325906	40.0	40.0	
103 Chrysene	228	11.280	11.274	0.006	100	2718849	80.0	78.3	
104 Bis(2-ethylhexyl) phthalat	149	11.310	11.304	0.006	87	1913632	80.0	79.7	
105 Di-n-octyl phthalate	149	12.127	12.121	0.006	97	2973882	80.0	80.3	
106 Benzo[b]fluoranthene	252	12.580	12.574	0.006	97	2522060	80.0	81.7	
107 Benzo[k]fluoranthene	252	12.616	12.610	0.006	97	2739151	80.0	82.7	
108 Benzo[a]pyrene	252	13.004	12.998	0.006	99	2394054	80.0	86.0	
* 109 Perylene-d12	264	13.074	13.074	0.000	99	1088279	40.0	40.0	
110 Indeno[1,2,3-cd]pyrene	276	14.498	14.492	0.006	96	2193088	80.0	94.9	
111 Dibenz(a,h)anthracene	278	14.533	14.527	0.006	100	2269363	80.0	94.6	
112 Benzo[g,h,i]perylene	276	14.868	14.862	0.006	96	2249375	80.0	87.2	
S 119 Total Cresols	1				0			139.6	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

SV_IC_BNA_L7_00010

Amount Added: 1.00

Units: mL

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CBNAMS5\\20160418-39964.b\\x12967.D

Injection Date: 18-Apr-2016 12:50:30

Instrument ID: CBNAMS5

Operator ID:

Lims ID: std80

Worklist Smp#: 4

Client ID:

Injection Vol: 1.0 ul

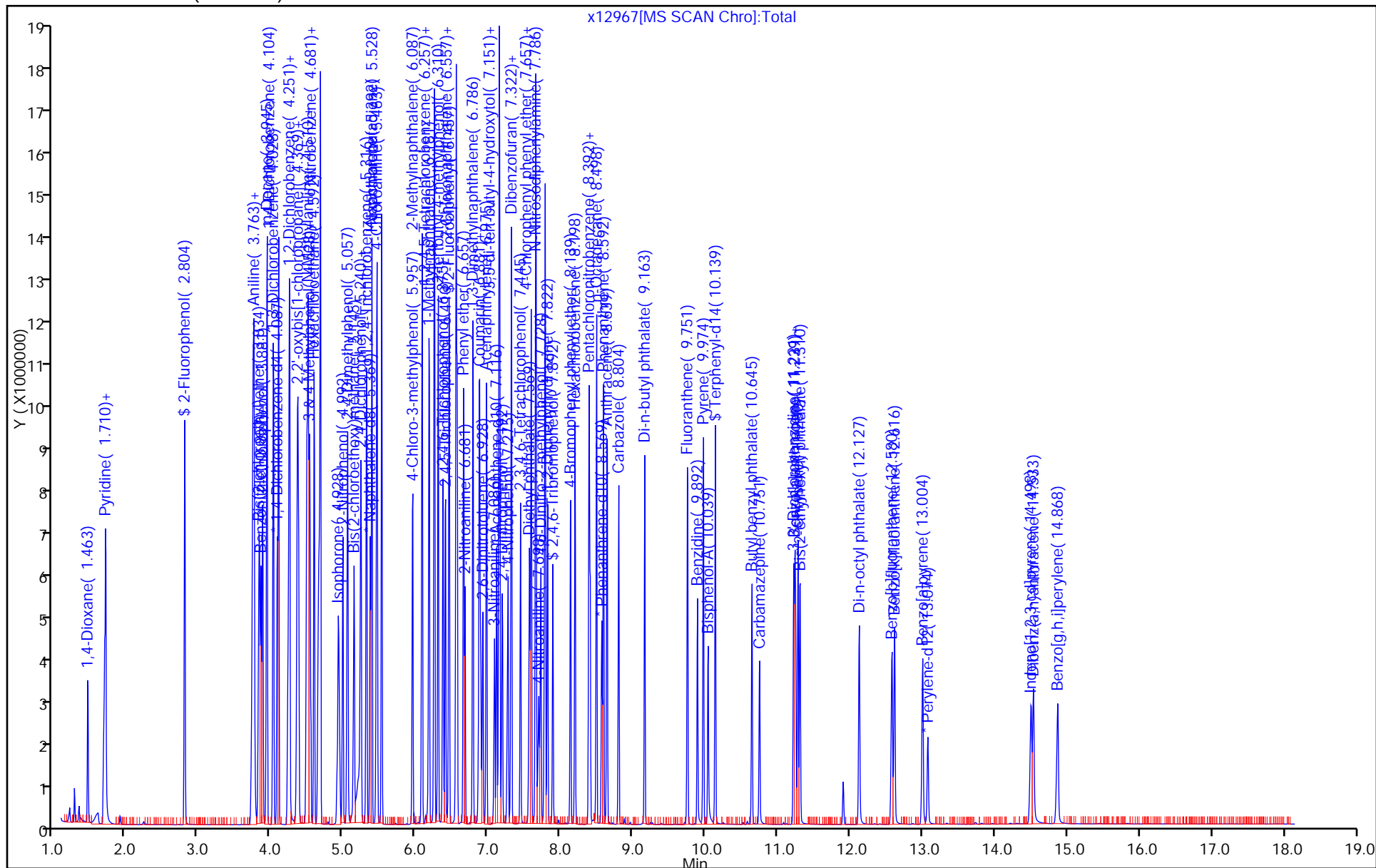
Dil. Factor: 1.0000

ALS Bottle#: 4

Method: 8270_5R

Limit Group: SV 8270D ICAL

Column: Rtxi-5Sil MS (0.25 mm)



TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS5\20160418-39964.b\12968.D
 Lims ID: std20
 Client ID:
 Sample Type: IC Calib Level: 6
 Inject. Date: 18-Apr-2016 13:15:30 ALS Bottle#: 5 Worklist Smp#: 5
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 460-0039964-005
 Operator ID: Instrument ID: CBNAMS5
 Sublist: chrom-8270_5R*sub37
 Method: \\ChromNA\Edison\ChromData\CBNAMS5\20160418-39964.b\8270_5R.m
 Limit Group: SV 8270D ICAL
 Last Update: 18-Apr-2016 17:20:25 Calib Date: 18-Apr-2016 15:17:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Edison\ChromData\CBNAMS5\20160418-39964.b\12973.D
 Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK009

First Level Reviewer: croccom

Date: 18-Apr-2016 14:26:11

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	1.469	1.463	0.006	97	306944	20.0	19.9	
2 N-Nitrosodimethylamine	74	1.687	1.687	0.000	74	409890	20.0	20.4	
3 Pyridine	79	1.710	1.710	0.000	84	713189	20.0	20.5	
\$ 4 2-Fluorophenol	112	2.799	2.804	-0.006	95	772031	20.0	19.5	
\$ 6 Phenol-d5	99	3.722	3.740	-0.018	90	870162	20.0	19.2	
7 Phenol	94	3.740	3.751	-0.011	97	980163	20.0	21.3	
8 Aniline	93	3.746	3.751	-0.005	93	1067348	20.0	21.0	
9 Bis(2-chloroethyl)ether	93	3.816	3.828	-0.012	98	644336	20.0	19.3	
10 Benzonitrile	103	3.828	3.845	-0.017	67	1347452	NC	NC	
11 2-Chlorophenol	128	3.869	3.875	-0.006	96	813989	20.0	20.9	
12 n-Decane	43	3.934	3.940	-0.006	92	949041	20.0	20.8	
13 1,3-Dichlorobenzene	146	4.022	4.028	-0.006	96	1005468	20.0	20.7	
* 14 1,4-Dichlorobenzene-d4	152	4.081	4.081	0.000	97	1175463	40.0	40.0	
15 1,4-Dichlorobenzene	146	4.098	4.098	0.000	96	1013308	20.0	21.2	
16 Benzyl alcohol	108	4.222	4.234	-0.012	94	477854	20.0	20.6	
17 1,2-Dichlorobenzene	146	4.251	4.251	0.000	97	946073	20.0	21.3	
18 2-Methylphenol	108	4.345	4.357	-0.012	93	709260	20.0	21.5	
19 2,2'-oxybis[1-chloropropan	45	4.369	4.375	-0.006	92	1033676	20.0	21.3	
20 N-Methylaniline	106	4.481	4.487	-0.006	86	1071366	NC	NC	
21 Acetophenone	105	4.493	4.504	-0.011	94	873606	20.0	20.5	
22 N-Nitrosodi-n-propylamine	70	4.498	4.510	-0.012	95	416232	20.0	18.7	
23 3 & 4 Methylphenol	108	4.510	4.522	-0.012	93	702535	20.0	21.4	
24 4-Methylphenol	108	4.510	4.522	-0.012	89	702535	20.0	21.4	
25 Hexachloroethane	117	4.587	4.592	-0.005	88	342703	20.0	19.9	
\$ 26 Nitrobenzene-d5	82	4.640	4.645	-0.005	91	714395	20.0	19.2	
28 Nitrobenzene	77	4.663	4.669	-0.006	91	935462	20.0	20.2	
27 n,n'-Dimethylaniline	120	4.669	4.675	-0.006	92	1084148	20.0	19.6	
31 Isophorone	82	4.904	4.916	-0.012	98	1136396	20.0	20.0	
32 2-Nitrophenol	139	4.981	4.987	-0.006	90	410696	20.0	21.0	
33 2,4-Dimethylphenol	122	5.045	5.051	-0.006	91	659199	20.0	21.0	
34 Bis(2-chloroethoxy)methane	93	5.134	5.140	-0.006	100	691221	20.0	20.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
35 Benzoic acid	122	5.163	5.204	-0.041	90	287551	20.0	20.0	
36 2,4-Dichlorophenol	162	5.228	5.234	-0.006	96	657601	20.0	20.8	
37 1,2,4-Trichlorobenzene	180	5.310	5.316	-0.006	95	738872	20.0	20.0	
* 38 Naphthalene-d8	136	5.363	5.369	-0.006	100	3822711	40.0	40.0	
39 Naphthalene	128	5.387	5.387	0.000	100	2092480	20.0	21.1	
40 4-Chloroaniline	127	5.451	5.451	0.000	96	790284	20.0	21.1	
41 Hexachlorobutadiene	225	5.522	5.528	-0.006	96	491842	20.0	20.2	
43 4-Chloro-3-methylphenol	107	5.945	5.951	-0.006	96	526125	20.0	20.9	
44 2-Methylnaphthalene	142	6.081	6.081	0.000	87	1427337	20.0	21.3	
45 1-Methylnaphthalene	142	6.175	6.181	-0.006	92	1209100	20.0	21.0	
46 Hexachlorocyclopentadiene	237	6.245	6.251	-0.006	96	439693	20.0	19.9	
47 1,2,4,5-Tetrachlorobenzene	216	6.251	6.257	-0.006	98	678068	20.0	20.3	
48 2-tertbutyl-4-methylphenol	149	6.298	6.304	-0.006	91	895410	20.0	20.6	
49 2,4,6-Trichlorophenol	196	6.369	6.369	0.000	92	415959	20.0	21.4	
50 2,4,5-Trichlorophenol	196	6.398	6.404	-0.006	98	422828	20.0	20.6	
\$ 51 2-Fluorobiphenyl	172	6.451	6.457	-0.006	98	1471188	20.0	19.3	
52 1,1'-Biphenyl	154	6.545	6.551	-0.006	94	1630157	20.0	21.4	
53 2-Chloronaphthalene	162	6.563	6.563	0.000	98	1248851	20.0	21.4	
54 Phenyl ether	170	6.657	6.657	0.000	86	873050	20.0	20.7	
56 2-Nitroaniline	65	6.669	6.675	-0.006	97	362946	20.0	21.2	
57 1,3-Dimethylnaphthalene	156	6.781	6.786	-0.005	93	985419	20.0	20.7	
58 Dimethyl phthalate	163	6.863	6.869	-0.006	99	1131852	20.0	20.9	
59 Coumarin	146	6.869	6.875	-0.006	80	360323	20.0	21.2	
60 2,6-Dinitrotoluene	165	6.916	6.916	0.000	96	270043	20.0	21.2	
61 Acenaphthylene	152	6.969	6.975	-0.006	98	1726735	20.0	21.0	
64 3-Nitroaniline	138	7.075	7.081	-0.006	97	272982	20.0	20.9	
* 65 Acenaphthene-d10	164	7.110	7.116	-0.006	91	1943912	40.0	40.0	
67 Acenaphthene	154	7.139	7.145	-0.006	93	1067676	20.0	21.2	
66 3,5-di-tert-butyl-4-hydrox	205	7.151	7.157	-0.006	96	1222815	20.0	20.4	
68 2,4-Dinitrophenol	184	7.181	7.186	-0.005	94	278482	40.0	40.2	
69 4-Nitrophenol	65	7.257	7.263	-0.006	90	321473	40.0	41.8	
70 2,4-Dinitrotoluene	165	7.310	7.316	-0.006	92	314603	20.0	21.6	
71 Dibenzofuran	168	7.310	7.316	-0.006	95	1604763	20.0	21.2	
72 2,3,4,6-Tetrachlorophenol	232	7.439	7.439	0.000	96	311339	20.0	20.6	
73 Diethyl phthalate	149	7.557	7.563	-0.006	99	1055876	20.0	21.2	
75 Fluorene	166	7.651	7.651	0.000	95	1171848	20.0	21.0	
74 4-Chlorophenyl phenyl ethe	204	7.657	7.657	0.000	92	623234	20.0	20.9	
76 4-Nitroaniline	138	7.675	7.686	-0.011	85	229284	20.0	21.6	
77 4,6-Dinitro-2-methylphenol	198	7.710	7.716	-0.006	88	356735	40.0	39.7	
78 N-Nitrosodiphenylamine	169	7.775	7.781	-0.006	66	1667907	40.0	40.7	
79 1,2-Diphenylhydrazine	77	7.810	7.816	-0.006	96	939879	20.0	20.7	
\$ 80 2,4,6-Tribromophenol	330	7.886	7.886	0.000	91	223908	20.0	21.6	
81 4-Bromophenyl phenyl ether	248	8.133	8.133	0.000	93	365349	20.0	19.9	
83 Hexachlorobenzene	284	8.192	8.198	-0.006	95	439821	20.0	20.6	
85 Pentachlorophenol	266	8.386	8.392	-0.006	94	426564	40.0	38.5	
86 Pentachloronitrobenzene	237	8.404	8.404	0.000	91	158110	20.0	20.8	
87 n-Octadecane	57	8.492	8.492	0.000	97	663044	20.0	20.3	
* 88 Phenanthrene-d10	188	8.563	8.563	0.000	97	2645758	40.0	40.0	
89 Phenanthrene	178	8.586	8.592	-0.006	96	1496371	20.0	20.5	
90 Anthracene	178	8.633	8.639	-0.006	99	1504544	20.0	20.7	
91 Carbazole	167	8.798	8.798	0.000	96	1181994	20.0	20.8	
92 Di-n-butyl phthalate	149	9.157	9.157	0.000	100	1390746	20.0	20.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
93 Fluoranthene	202	9.751	9.751	0.000	99	1305110	20.0	20.5	
94 Benzidine	184	9.886	9.886	0.000	99	579803	20.0	19.6	
95 Pyrene	202	9.969	9.969	0.000	99	1312198	20.0	20.4	
82 Bisphenol-A	213	10.033	10.033	0.000	99	406232	20.0	18.5	
\$ 96 Terphenyl-d14	244	10.133	10.133	0.000	98	908505	20.0	18.7	
97 Butyl benzyl phthalate	149	10.639	10.639	0.000	96	455714	20.0	20.2	
99 Carbamazepine	193	10.739	10.745	-0.006	91	274677	20.0	20.5	
100 3,3'-Dichlorobenzidine	252	11.216	11.216	0.000	98	365777	20.0	20.4	
101 Benzo[a]anthracene	228	11.233	11.233	0.000	97	992768	20.0	19.7	
* 102 Chrysene-d12	240	11.245	11.245	0.000	98	1701389	40.0	40.0	
103 Chrysene	228	11.274	11.274	0.000	99	885895	20.0	19.9	
104 Bis(2-ethylhexyl) phthalat	149	11.304	11.304	0.000	87	629937	20.0	20.5	
105 Di-n-octyl phthalate	149	12.121	12.121	0.000	97	937849	20.0	20.6	
106 Benzo[b]fluoranthene	252	12.568	12.574	-0.006	97	770583	20.0	20.3	
107 Benzo[k]fluoranthene	252	12.604	12.610	-0.006	98	827752	20.0	20.3	
108 Benzo[a]pyrene	252	12.992	12.998	-0.006	98	690713	20.0	20.2	
* 109 Perylene-d12	264	13.074	13.074	0.000	99	1340569	40.0	40.0	
110 Indeno[1,2,3-cd]pyrene	276	14.486	14.492	-0.006	97	578460	20.0	20.3	
111 Dibenz(a,h)anthracene	278	14.521	14.527	-0.006	99	612861	20.0	20.7	
112 Benzo[g,h,i]perylene	276	14.857	14.862	-0.005	97	602952	20.0	19.0	
S 119 Total Cresols	1				0			42.9	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

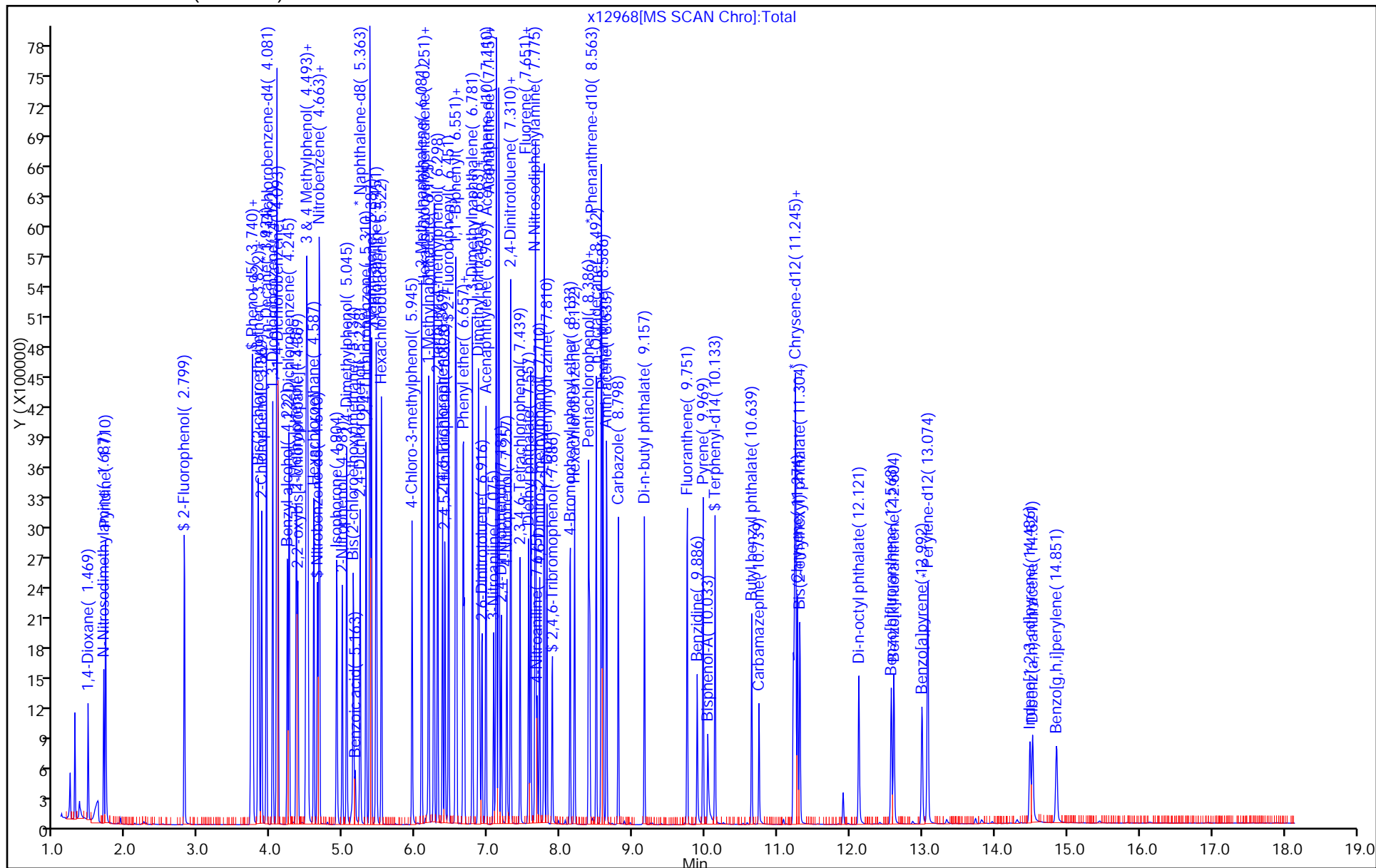
SV_IC_BNA_L5_00010

Amount Added: 1.00

Units: mL

Data File:	\\ChromNA\Edison\ChromData\CBNAMS5\20160418-39964.b\12968.D		
Injection Date:	18-Apr-2016 13:15:30	Instrument ID:	CBNAMS5
Lims ID:	std20		
Client ID:			
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	8270_5R	Limit Group:	SV 8270D ICA
Column:	Rtxi-5Sil MS (0.25 mm)		

Operator ID:
Worklist Smp#: 5
ALS Bottle#: 5



TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS5\20160418-39964.b\12969.D
 Lims ID: std10
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 18-Apr-2016 13:39:30 ALS Bottle#: 6 Worklist Smp#: 6
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 460-0039964-006
 Operator ID: Instrument ID: CBNAMS5
 Sublist: chrom-8270_5R*sub37
 Method: \\ChromNA\Edison\ChromData\CBNAMS5\20160418-39964.b\8270_5R.m
 Limit Group: SV 8270D ICAL
 Last Update: 18-Apr-2016 17:20:38 Calib Date: 18-Apr-2016 15:17:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS5\20160418-39964.b\12973.D
 Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK009

First Level Reviewer: croccom

Date: 18-Apr-2016 14:27:34

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	1.481	1.463	0.018	97	171662	10.0	10.3	
2 N-Nitrosodimethylamine	74	1.693	1.687	0.006	74	224540	10.0	10.4	
3 Pyridine	79	1.716	1.710	0.006	85	399541	10.0	10.7	
\$ 4 2-Fluorophenol	112	2.805	2.804	0.000	95	436094	10.0	10.2	
\$ 6 Phenol-d5	99	3.716	3.740	-0.024	88	512805	10.0	10.5	
7 Phenol	94	3.734	3.751	-0.017	98	564702	10.0	11.4	
8 Aniline	93	3.746	3.751	-0.005	97	608089	10.0	11.2	
9 Bis(2-chloroethyl)ether	93	3.816	3.828	-0.012	97	371102	10.0	10.3	
10 Benzonitrile	103	3.822	3.845	-0.023	67	736784	NC	NC	
11 2-Chlorophenol	128	3.863	3.875	-0.012	96	448790	10.0	10.7	
12 n-Decane	43	3.934	3.940	-0.006	93	538483	10.0	11.0	
13 1,3-Dichlorobenzene	146	4.022	4.028	-0.006	97	564621	10.0	10.8	
* 14 1,4-Dichlorobenzene-d4	152	4.081	4.081	0.000	96	1263197	40.0	40.0	
15 1,4-Dichlorobenzene	146	4.093	4.098	-0.005	97	560486	10.0	10.9	
16 Benzyl alcohol	108	4.222	4.234	-0.012	94	268576	10.0	10.8	
17 1,2-Dichlorobenzene	146	4.246	4.251	-0.005	97	526253	10.0	11.0	
18 2-Methylphenol	108	4.346	4.357	-0.011	92	394604	10.0	11.1	
19 2,2'-oxybis[1-chloropropan	45	4.369	4.375	-0.006	91	579882	10.0	11.1	
20 N-Methylaniline	106	4.481	4.487	-0.006	95	595984	NC	NC	
21 Acetophenone	105	4.487	4.504	-0.017	97	515175	10.0	11.3	
22 N-Nitrosodi-n-propylamine	70	4.493	4.510	-0.017	94	244688	10.0	10.2	
23 3 & 4 Methylphenol	108	4.504	4.522	-0.018	88	398773	10.0	11.3	
24 4-Methylphenol	108	4.504	4.522	-0.018	92	398773	10.0	11.3	
25 Hexachloroethane	117	4.587	4.592	-0.005	90	195832	10.0	10.6	
\$ 26 Nitrobenzene-d5	82	4.640	4.645	-0.005	90	424577	10.0	10.3	
28 Nitrobenzene	77	4.657	4.669	-0.012	93	539540	10.0	10.5	
27 n,n'-Dimethylaniline	120	4.663	4.675	-0.012	93	617908	10.0	10.4	
31 Isophorone	82	4.898	4.916	-0.018	98	647314	10.0	10.3	
32 2-Nitrophenol	139	4.981	4.987	-0.006	91	229258	10.0	10.6	
33 2,4-Dimethylphenol	122	5.040	5.051	-0.011	91	372375	10.0	10.7	
34 Bis(2-chloroethoxy)methane	93	5.134	5.140	-0.006	99	386704	10.0	10.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
35 Benzoic acid	122	5.134	5.204	-0.070	35	116267	10.0	9.07	
36 2,4-Dichlorophenol	162	5.228	5.234	-0.006	96	376030	10.0	10.8	
37 1,2,4-Trichlorobenzene	180	5.310	5.316	-0.006	94	423104	10.0	10.4	
* 38 Naphthalene-d8	136	5.363	5.369	-0.006	99	4232471	40.0	40.0	
39 Naphthalene	128	5.381	5.387	-0.006	100	1196554	10.0	10.9	
40 4-Chloroaniline	127	5.446	5.451	-0.005	97	451603	10.0	10.9	
41 Hexachlorobutadiene	225	5.522	5.528	-0.006	95	271703	10.0	10.1	
43 4-Chloro-3-methylphenol	107	5.945	5.951	-0.006	97	307574	10.0	11.1	
44 2-Methylnaphthalene	142	6.081	6.081	0.000	87	821515	10.0	11.1	
45 1-Methylnaphthalene	142	6.175	6.181	-0.006	93	693948	10.0	10.9	
46 Hexachlorocyclopentadiene	237	6.245	6.251	-0.006	97	225045	10.0	9.08	
47 1,2,4,5-Tetrachlorobenzene	216	6.251	6.257	-0.006	98	388230	10.0	10.4	
48 2-tertbutyl-4-methylphenol	149	6.298	6.304	-0.006	91	516751	10.0	10.8	
49 2,4,6-Trichlorophenol	196	6.363	6.369	-0.006	91	226385	10.0	10.4	
50 2,4,5-Trichlorophenol	196	6.398	6.404	-0.006	97	236957	10.0	10.3	
\$ 51 2-Fluorobiphenyl	172	6.451	6.457	-0.006	98	871998	10.0	10.2	
52 1,1'-Biphenyl	154	6.545	6.551	-0.006	95	921278	10.0	10.8	
53 2-Chloronaphthalene	162	6.557	6.563	-0.006	98	699813	10.0	10.7	
54 Phenyl ether	170	6.651	6.657	-0.006	85	497743	10.0	10.5	
56 2-Nitroaniline	65	6.663	6.675	-0.012	97	201805	10.0	10.5	
57 1,3-Dimethylnaphthalene	156	6.781	6.786	-0.005	94	587271	10.0	11.0	
58 Dimethyl phthalate	163	6.857	6.869	-0.012	99	665562	10.0	10.9	
59 Coumarin	146	6.863	6.875	-0.012	80	208916	10.0	11.1	
60 2,6-Dinitrotoluene	165	6.910	6.916	-0.006	96	148925	10.0	10.4	
61 Acenaphthylene	152	6.963	6.975	-0.012	98	989858	10.0	10.7	
64 3-Nitroaniline	138	7.069	7.081	-0.012	96	152261	10.0	10.4	
* 65 Acenaphthene-d10	164	7.110	7.116	-0.006	90	2180821	40.0	40.0	
67 Acenaphthene	154	7.140	7.145	-0.005	92	627533	10.0	11.1	
66 3,5-di-tert-butyl-4-hydrox	205	7.151	7.157	-0.006	96	694151	10.0	10.3	
68 2,4-Dinitrophenol	184	7.175	7.186	-0.011	95	137150	20.0	19.3	
69 4-Nitrophenol	65	7.251	7.263	-0.012	89	170641	20.0	19.8	
70 2,4-Dinitrotoluene	165	7.304	7.316	-0.012	95	178629	10.0	10.9	
71 Dibenzofuran	168	7.310	7.316	-0.006	95	937835	10.0	11.0	
72 2,3,4,6-Tetrachlorophenol	232	7.439	7.439	0.000	97	166306	10.0	9.82	
73 Diethyl phthalate	149	7.557	7.563	-0.006	99	605730	10.0	10.8	
75 Fluorene	166	7.645	7.651	-0.006	95	690228	10.0	11.0	
74 4-Chlorophenyl phenyl ethe	204	7.651	7.657	-0.006	90	362193	10.0	10.8	
76 4-Nitroaniline	138	7.669	7.686	-0.017	84	124063	10.0	10.4	
77 4,6-Dinitro-2-methylphenol	198	7.704	7.716	-0.012	88	187588	20.0	19.4	
78 N-Nitrosodiphenylamine	169	7.769	7.781	-0.012	66	977009	20.0	21.0	
79 1,2-Diphenylhydrazine	77	7.810	7.816	-0.006	97	542075	10.0	10.5	
\$ 80 2,4,6-Tribromophenol	330	7.881	7.886	-0.005	91	124800	10.0	11.4	
81 4-Bromophenyl phenyl ether	248	8.134	8.133	0.001	94	204003	10.0	9.80	
83 Hexachlorobenzene	284	8.192	8.198	-0.006	96	236320	10.0	9.73	
85 Pentachlorophenol	266	8.386	8.392	-0.006	94	205143	20.0	17.8	
86 Pentachloronitrobenzene	237	8.398	8.404	-0.006	89	85616	10.0	9.92	
87 n-Octadecane	57	8.492	8.492	0.000	96	379434	10.0	10.2	
* 88 Phenanthrene-d10	188	8.563	8.563	0.000	97	3006626	40.0	40.0	
89 Phenanthrene	178	8.586	8.592	-0.006	96	859780	10.0	10.4	
90 Anthracene	178	8.634	8.639	-0.005	99	857606	10.0	10.4	
91 Carbazole	167	8.792	8.798	-0.006	96	668688	10.0	10.3	
92 Di-n-butyl phthalate	149	9.157	9.157	0.000	100	782109	10.0	10.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
93 Fluoranthene	202	9.745	9.751	-0.006	99	730002	10.0	10.1	
94 Benzidine	184	9.886	9.886	0.000	99	283839	10.0	8.44	
95 Pyrene	202	9.969	9.969	0.000	98	719404	10.0	10.4	
82 Bisphenol-A	213	10.033	10.033	0.000	99	211222	10.0	8.98	
\$ 96 Terphenyl-d14	244	10.133	10.133	0.000	98	518256	10.0	9.95	
97 Butyl benzyl phthalate	149	10.639	10.639	0.000	95	242040	10.0	9.99	
99 Carbamazepine	193	10.739	10.745	-0.006	92	109360	10.0	9.57	
100 3,3'-Dichlorobenzidine	252	11.210	11.216	-0.006	98	180894	10.0	9.42	
101 Benzo[a]anthracene	228	11.227	11.233	-0.006	97	533264	10.0	9.87	
* 102 Chrysene-d12	240	11.245	11.245	0.000	98	1824241	40.0	40.0	
103 Chrysene	228	11.269	11.274	-0.005	99	481044	10.0	10.1	
104 Bis(2-ethylhexyl) phthalat	149	11.304	11.304	0.000	87	330982	10.0	10.0	
105 Di-n-octyl phthalate	149	12.122	12.121	0.001	97	472377	10.0	10.0	
106 Benzo[b]fluoranthene	252	12.569	12.574	-0.005	97	385437	10.0	9.81	
107 Benzo[k]fluoranthene	252	12.598	12.610	-0.012	98	441396	10.0	10.5	
108 Benzo[a]pyrene	252	12.992	12.998	-0.006	98	359061	10.0	10.1	
* 109 Perylene-d12	264	13.074	13.074	0.000	99	1383977	40.0	40.0	
110 Indeno[1,2,3-cd]pyrene	276	14.480	14.492	-0.012	97	276612	10.0	9.41	
111 Dibenz(a,h)anthracene	278	14.521	14.527	-0.006	99	313065	10.0	10.3	
112 Benzo[g,h,i]perylene	276	14.851	14.862	-0.011	97	303026	10.0	9.24	
S 119 Total Cresols	1				0			22.5	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

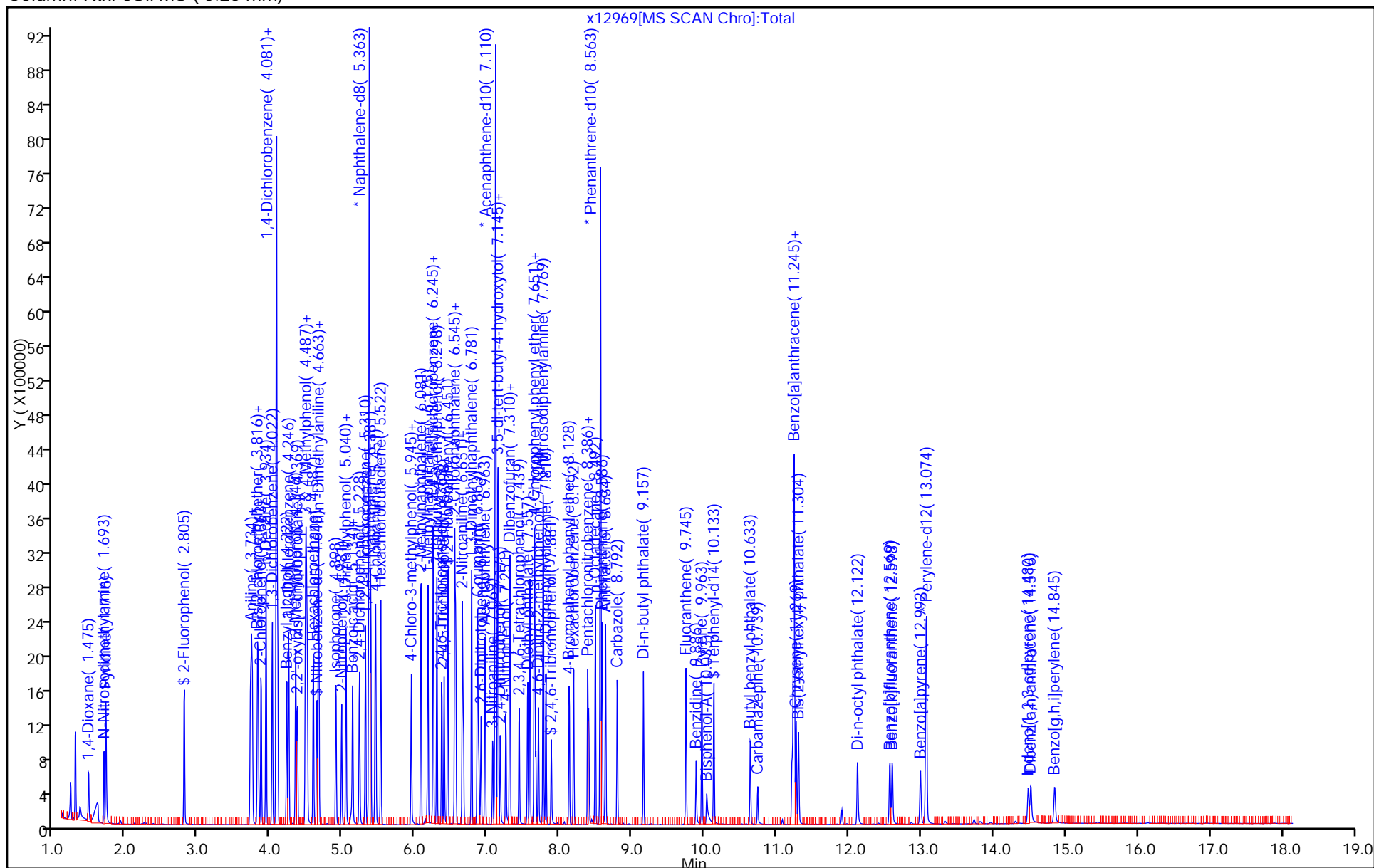
SV_IC_BNA_L4_00010

Amount Added: 1.00

Units: mL

Data File:	\\ChromNA\\Edison\\ChromData\\CBNAM5\\20160418-39964.b\\x12969.D		
Injection Date:	18-Apr-2016 13:39:30	Instrument ID:	CBNAM5
Lims ID:	std10		
Client ID:			
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	8270_5R	Limit Group:	SV 8270D ICA
Column:	Rtxi-5Sil MS (0.25 mm)		

ALS Bottle#: 6



TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS5\20160418-39964.b\12970.D
 Lims ID: std5
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 18-Apr-2016 14:04:30 ALS Bottle#: 7 Worklist Smp#: 7
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 460-0039964-007
 Operator ID: Instrument ID: CBNAMS5
 Sublist: chrom-8270_5R*sub37
 Method: \\ChromNA\Edison\ChromData\CBNAMS5\20160418-39964.b\8270_5R.m
 Limit Group: SV 8270D ICAL
 Last Update: 18-Apr-2016 17:20:47 Calib Date: 18-Apr-2016 15:17:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS5\20160418-39964.b\12973.D
 Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK009

First Level Reviewer: croccom

Date: 18-Apr-2016 14:35:15

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	1.475	1.463	0.012	97	88381	5.00	5.03	
2 N-Nitrosodimethylamine	74	1.693	1.687	0.006	74	114404	5.00	5.01	
3 Pyridine	79	1.716	1.710	0.006	85	203430	5.00	5.13	
\$ 4 2-Fluorophenol	112	2.804	2.804	0.000	96	238386	5.00	5.28	
\$ 6 Phenol-d5	99	3.716	3.740	-0.024	86	290955	5.00	5.62	
7 Phenol	94	3.728	3.751	-0.023	98	295886	5.00	5.64	
8 Aniline	93	3.745	3.751	-0.006	98	320044	5.00	5.54	
9 Bis(2-chloroethyl)ether	93	3.810	3.828	-0.018	98	193402	5.00	5.08	
10 Benzonitrile	103	3.822	3.845	-0.023	67	413472	NC	NC	
11 2-Chlorophenol	128	3.863	3.875	-0.012	96	238797	5.00	5.39	
12 n-Decane	43	3.934	3.940	-0.006	93	278576	5.00	5.35	
13 1,3-Dichlorobenzene	146	4.022	4.028	-0.006	97	295127	5.00	5.33	
* 14 1,4-Dichlorobenzene-d4	152	4.081	4.081	0.000	96	1338364	40.0	40.0	
15 1,4-Dichlorobenzene	146	4.092	4.098	-0.006	95	286292	5.00	5.26	
16 Benzyl alcohol	108	4.222	4.234	-0.012	95	139287	5.00	5.28	
17 1,2-Dichlorobenzene	146	4.245	4.251	-0.006	97	283316	5.00	5.60	
18 2-Methylphenol	108	4.345	4.357	-0.012	92	207740	5.00	5.54	
19 2,2'-oxybis[1-chloropropan	45	4.369	4.375	-0.006	92	304685	5.00	5.51	
20 N-Methylaniline	106	4.481	4.487	-0.006	96	331625	NC	NC	
21 Acetophenone	105	4.487	4.504	-0.018	98	280075	5.00	5.77	
22 N-Nitrosodi-n-propylamine	70	4.492	4.510	-0.018	94	133521	5.00	5.27	
23 3 & 4 Methylphenol	108	4.504	4.522	-0.018	88	210521	5.00	5.63	
24 4-Methylphenol	108	4.504	4.522	-0.018	93	210521	5.00	5.63	
25 Hexachloroethane	117	4.587	4.592	-0.006	89	99747	5.00	5.08	
\$ 26 Nitrobenzene-d5	82	4.634	4.645	-0.011	92	234647	5.00	5.31	
28 Nitrobenzene	77	4.657	4.669	-0.012	93	287892	5.00	5.24	
27 n,n'-Dimethylaniline	120	4.663	4.675	-0.012	91	341412	5.00	5.43	
31 Isophorone	82	4.898	4.916	-0.018	99	349855	5.00	5.19	
32 2-Nitrophenol	139	4.981	4.987	-0.006	89	112126	5.00	4.82	
33 2,4-Dimethylphenol	122	5.039	5.051	-0.012	91	199847	5.00	5.35	
34 Bis(2-chloroethoxy)methane	93	5.134	5.140	-0.006	100	208762	5.00	5.30	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
35 Benzoic acid	122	5.116	5.204	-0.088	89	48249	5.00	5.22	
36 2,4-Dichlorophenol	162	5.228	5.234	-0.006	96	196642	5.00	5.24	
37 1,2,4-Trichlorobenzene	180	5.310	5.316	-0.006	94	221609	5.00	5.05	
* 38 Naphthalene-d8	136	5.363	5.369	-0.006	99	4546394	40.0	40.0	
39 Naphthalene	128	5.381	5.387	-0.006	99	635735	5.00	5.40	
40 4-Chloroaniline	127	5.445	5.451	-0.006	97	246546	5.00	5.53	
41 Hexachlorobutadiene	225	5.522	5.528	-0.006	95	139958	5.00	4.84	
43 4-Chloro-3-methylphenol	107	5.945	5.951	-0.006	97	162469	5.00	5.44	
44 2-Methylnaphthalene	142	6.081	6.081	0.000	86	432218	5.00	5.41	
45 1-Methylnaphthalene	142	6.175	6.181	-0.006	93	374460	5.00	5.48	
46 Hexachlorocyclopentadiene	237	6.245	6.251	-0.006	96	107125	5.00	3.82	
47 1,2,4,5-Tetrachlorobenzene	216	6.251	6.257	-0.006	97	203614	5.00	4.79	
48 2-tertbutyl-4-methylphenol	149	6.298	6.304	-0.006	91	286301	5.00	5.55	
49 2,4,6-Trichlorophenol	196	6.369	6.369	0.000	93	114922	5.00	4.66	
50 2,4,5-Trichlorophenol	196	6.398	6.404	-0.006	97	124832	5.00	4.79	
\$ 51 2-Fluorobiphenyl	172	6.451	6.457	-0.006	98	500293	5.00	5.16	
52 1,1'-Biphenyl	154	6.545	6.551	-0.006	96	497751	5.00	5.14	
53 2-Chloronaphthalene	162	6.557	6.563	-0.006	98	383307	5.00	5.16	
54 Phenyl ether	170	6.651	6.657	-0.006	85	271519	5.00	5.06	
56 2-Nitroaniline	65	6.663	6.675	-0.012	97	112445	5.00	5.16	
57 1,3-Dimethylnaphthalene	156	6.780	6.786	-0.006	93	327221	5.00	5.42	
58 Dimethyl phthalate	163	6.857	6.869	-0.012	99	368717	5.00	5.35	
59 Coumarin	146	6.863	6.875	-0.012	81	120273	5.00	5.94	
60 2,6-Dinitrotoluene	165	6.910	6.916	-0.006	96	81139	5.00	5.01	
61 Acenaphthylene	152	6.969	6.975	-0.006	97	536061	5.00	5.12	
64 3-Nitroaniline	138	7.069	7.081	-0.012	97	84281	5.00	5.08	
* 65 Acenaphthene-d10	164	7.110	7.116	-0.006	90	2470590	40.0	40.0	
67 Acenaphthene	154	7.139	7.145	-0.006	93	348122	5.00	5.44	
66 3,5-di-tert-butyl-4-hydrox	205	7.151	7.157	-0.006	97	381016	5.00	4.99	
68 2,4-Dinitrophenol	184	7.175	7.186	-0.011	92	61155	10.0	9.34	
69 4-Nitrophenol	65	7.251	7.263	-0.012	91	91783	10.0	9.40	
70 2,4-Dinitrotoluene	165	7.304	7.316	-0.012	95	96749	5.00	5.22	
71 Dibenzofuran	168	7.310	7.316	-0.006	97	505638	5.00	5.25	
72 2,3,4,6-Tetrachlorophenol	232	7.439	7.439	0.000	96	86756	5.00	4.52	
73 Diethyl phthalate	149	7.551	7.563	-0.012	99	323643	5.00	5.11	
75 Fluorene	166	7.645	7.651	-0.006	97	385275	5.00	5.44	
74 4-Chlorophenyl phenyl ethe	204	7.651	7.657	-0.006	92	197100	5.00	5.21	
76 4-Nitroaniline	138	7.669	7.686	-0.017	86	70214	5.00	5.22	
77 4,6-Dinitro-2-methylphenol	198	7.704	7.716	-0.012	90	93914	10.0	9.77	
78 N-Nitrosodiphenylamine	169	7.769	7.781	-0.012	67	539232	10.0	10.4	
79 1,2-Diphenylhydrazine	77	7.810	7.816	-0.006	97	296170	5.00	5.12	
\$ 80 2,4,6-Tribromophenol	330	7.880	7.886	-0.006	92	69442	5.00	5.80	
81 4-Bromophenyl phenyl ether	248	8.127	8.133	-0.006	92	109451	5.00	4.70	
83 Hexachlorobenzene	284	8.192	8.198	-0.006	96	126707	5.00	4.66	
85 Pentachlorophenol	266	8.386	8.392	-0.006	94	101613	10.0	9.34	
86 Pentachloronitrobenzene	237	8.398	8.404	-0.006	88	47228	5.00	4.89	
87 n-Octadecane	57	8.492	8.492	0.000	96	204368	5.00	4.93	
* 88 Phenanthrene-d10	188	8.563	8.563	0.000	97	3363215	40.0	40.0	
89 Phenanthrene	178	8.586	8.592	-0.006	96	478312	5.00	5.17	
90 Anthracene	178	8.633	8.639	-0.006	99	473926	5.00	5.12	
91 Carbazole	167	8.792	8.798	-0.006	96	370157	5.00	5.12	
92 Di-n-butyl phthalate	149	9.157	9.157	0.000	100	422706	5.00	4.90	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
93 Fluoranthene	202	9.745	9.751	-0.006	98	393218	5.00	4.86	
94 Benzidine	184	9.886	9.886	0.000	99	167307	5.00	4.45	
95 Pyrene	202	9.963	9.969	-0.006	99	393392	5.00	5.11	
82 Bisphenol-A	213	10.033	10.033	0.000	99	111826	5.00	4.25	
\$ 96 Terphenyl-d14	244	10.133	10.133	0.000	98	300070	5.00	5.15	
97 Butyl benzyl phthalate	149	10.639	10.639	0.000	95	128869	5.00	4.76	
99 Carbamazepine	193	10.739	10.745	-0.006	93	42598	5.00	5.17	
100 3,3'-Dichlorobenzidine	252	11.210	11.216	-0.006	98	101663	5.00	4.74	
101 Benzo[a]anthracene	228	11.227	11.233	-0.006	96	283235	5.00	4.69	
* 102 Chrysene-d12	240	11.245	11.245	0.000	98	2039493	40.0	40.0	
103 Chrysene	228	11.268	11.274	-0.006	100	258228	5.00	4.83	
104 Bis(2-ethylhexyl) phthalat	149	11.304	11.304	0.000	87	170106	5.00	4.61	
105 Di-n-octyl phthalate	149	12.121	12.121	0.000	97	236766	5.00	4.38	
106 Benzo[b]fluoranthene	252	12.568	12.574	-0.006	97	200735	5.00	4.45	
107 Benzo[k]fluoranthene	252	12.598	12.610	-0.012	99	232740	5.00	4.82	
108 Benzo[a]pyrene	252	12.992	12.998	-0.006	98	185161	5.00	4.56	
* 109 Perylene-d12	264	13.074	13.074	0.000	99	1588326	40.0	40.0	
110 Indeno[1,2,3-cd]pyrene	276	14.480	14.492	-0.012	97	145820	5.00	4.32	
111 Dibenz(a,h)anthracene	278	14.515	14.527	-0.012	99	157034	5.00	4.48	
112 Benzo[g,h,i]perylene	276	14.845	14.862	-0.017	96	159621	5.00	4.24	
S 119 Total Cresols	1				0			11.2	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

SV_IC_BNA_L3_00012

Amount Added: 1.00

Units: mL

Operator ID:

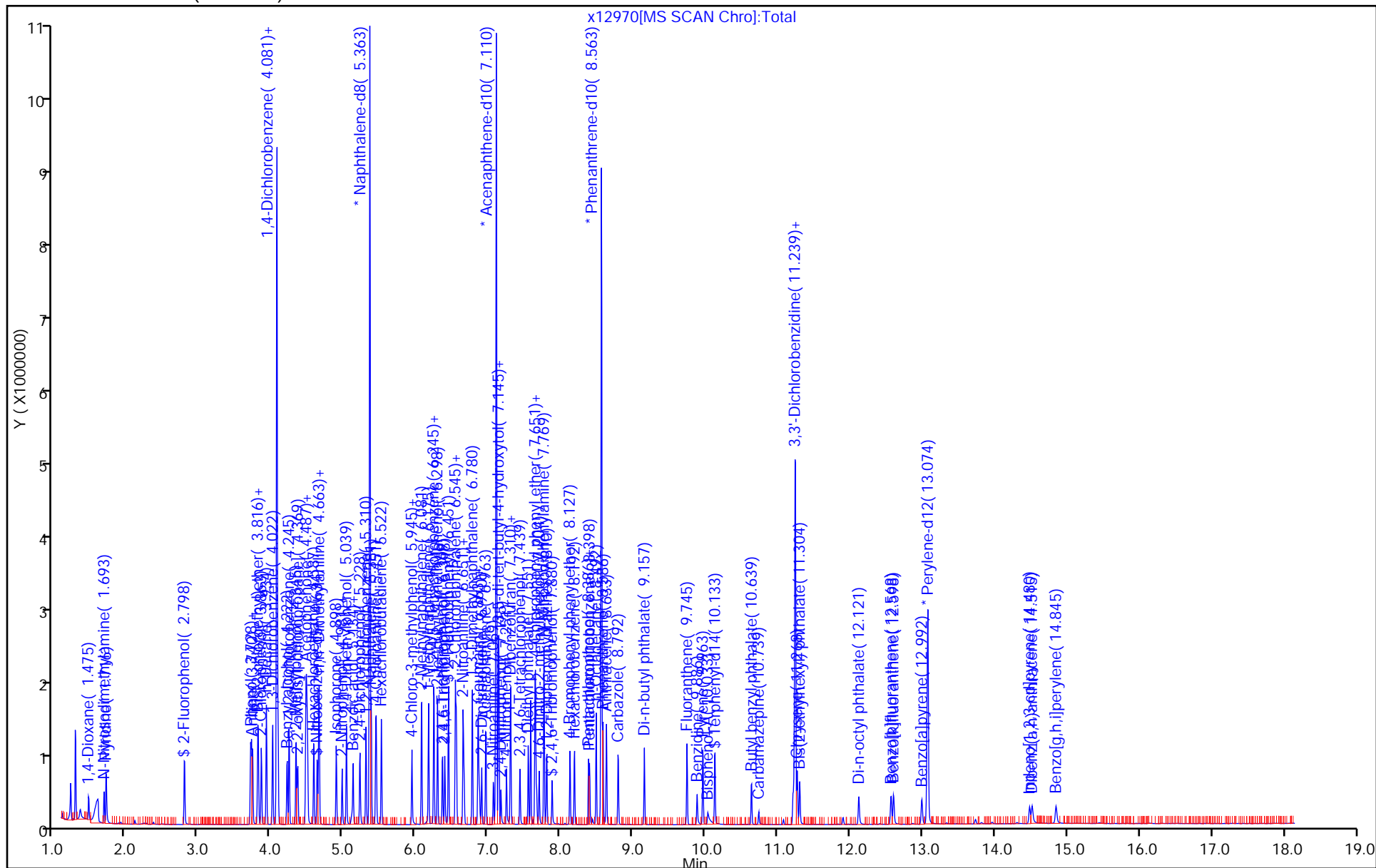
Worklist Smp#: 7

Client ID:

ALS Bottle#: 7

Limit Group: SV 8270D ICAL

Column: Rtxi-5Sil MS (0.25 mm)



TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS5\20160418-39964.b\12971.D
 Lims ID: std2
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 18-Apr-2016 14:28:30 ALS Bottle#: 8 Worklist Smp#: 8
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 460-0039964-008
 Operator ID: Instrument ID: CBNAMS5
 Sublist: chrom-8270_5R*sub37
 Method: \\ChromNA\Edison\ChromData\CBNAMS5\20160418-39964.b\8270_5R.m
 Limit Group: SV 8270D ICAL
 Last Update: 18-Apr-2016 17:20:57 Calib Date: 18-Apr-2016 15:17:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS5\20160418-39964.b\12973.D
 Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK009

First Level Reviewer: croccom

Date: 18-Apr-2016 14:56:50

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
\$ 4 2-Fluorophenol	112	2.798	2.804	-0.006	95	89257	2.00	2.09	
\$ 6 Phenol-d5	99	3.716	3.740	-0.024	92	112008	2.00	2.29	
9 Bis(2-chloroethyl)ether	93	3.810	3.828	-0.018	98	79729	2.00	2.22	
* 14 1,4-Dichlorobenzene-d4	152	4.081	4.081	0.000	96	1263838	40.0	40.0	
22 N-Nitrosodi-n-propylamine	70	4.492	4.510	-0.018	94	52648	2.00	2.20	
25 Hexachloroethane	117	4.587	4.592	-0.005	90	39315	2.00	2.12	
\$ 26 Nitrobenzene-d5	82	4.634	4.645	-0.011	91	89418	2.00	2.22	
28 Nitrobenzene	77	4.657	4.669	-0.012	94	108065	2.00	2.16	
27 n,n'-Dimethylaniline	120	4.663	4.675	-0.012	92	131200	2.00	2.21	
31 Isophorone	82	4.898	4.916	-0.018	98	133226	2.00	2.17	
36 2,4-Dichlorophenol	162	5.228	5.234	-0.006	97	68198	2.00	1.99	
37 1,2,4-Trichlorobenzene	180	5.310	5.316	-0.006	95	83172	2.00	2.08	
* 38 Naphthalene-d8	136	5.363	5.369	-0.006	99	4146408	40.0	40.0	
41 Hexachlorobutadiene	225	5.522	5.528	-0.006	95	55916	2.00	2.12	
49 2,4,6-Trichlorophenol	196	6.369	6.369	0.000	92	37213	2.00	1.63	
\$ 51 2-Fluorobiphenyl	172	6.451	6.457	-0.006	98	195477	2.00	2.18	
60 2,6-Dinitrotoluene	165	6.910	6.916	-0.006	96	31170	2.00	2.08	
* 65 Acenaphthene-d10	164	7.110	7.116	-0.006	90	2287285	40.0	40.0	
68 2,4-Dinitrophenol	184	7.175	7.186	-0.011	92	10829	4.00	4.13	
70 2,4-Dinitrotoluene	165	7.304	7.316	-0.012	95	34956	2.00	2.04	
77 4,6-Dinitro-2-methylphenol	198	7.704	7.716	-0.012	89	24281	4.00	4.06	
78 N-Nitrosodiphenylamine	169	7.769	7.781	-0.012	67	202438	4.00	4.07	
\$ 80 2,4,6-Tribromophenol	330	7.881	7.886	-0.006	90	21974	2.00	2.03	
83 Hexachlorobenzene	284	8.192	8.198	-0.006	95	48322	2.00	1.86	
85 Pentachlorophenol	266	8.386	8.392	-0.006	93	22738	4.00	4.20	M
* 88 Phenanthrene-d10	188	8.563	8.563	0.000	97	3212363	40.0	40.0	
\$ 96 Terphenyl-d14	244	10.133	10.133	0.000	98	113206	2.00	2.02	
100 3,3'-Dichlorobenzidine	252	11.210	11.216	-0.006	98	31475	2.00	1.52	
101 Benzo[a]anthracene	228	11.233	11.233	0.000	96	110174	2.00	1.89	
* 102 Chrysene-d12	240	11.245	11.245	0.000	98	1965823	40.0	40.0	
106 Benzo[b]fluoranthene	252	12.563	12.574	-0.011	97	74735	2.00	1.85	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
107 Benzo[k]fluoranthene	252	12.604	12.610	-0.006	98	86066	2.00	1.99	
108 Benzo[a]pyrene	252	12.992	12.998	-0.006	98	68493	2.00	1.89	
* 109 Perylene-d12	264	13.074	13.074	0.000	99	1420655	40.0	40.0	
110 Indeno[1,2,3-cd]pyrene	276	14.480	14.492	-0.012	97	53190	2.00	1.76	
111 Dibenz(a,h)anthracene	278	14.521	14.527	-0.006	96	55412	2.00	1.77	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

SV_IC_BNA_L0_00008

Amount Added: 1.00

Units: mL

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CBNAMS5\\20160418-39964.b\\x12971.D

Injection Date: 18-Apr-2016 14:28:30

Instrument ID: CBNAMS5

Operator ID:

Lims ID: std2

Worklist Smp#: 8

Client ID:

Injection Vol: 1.0 ul

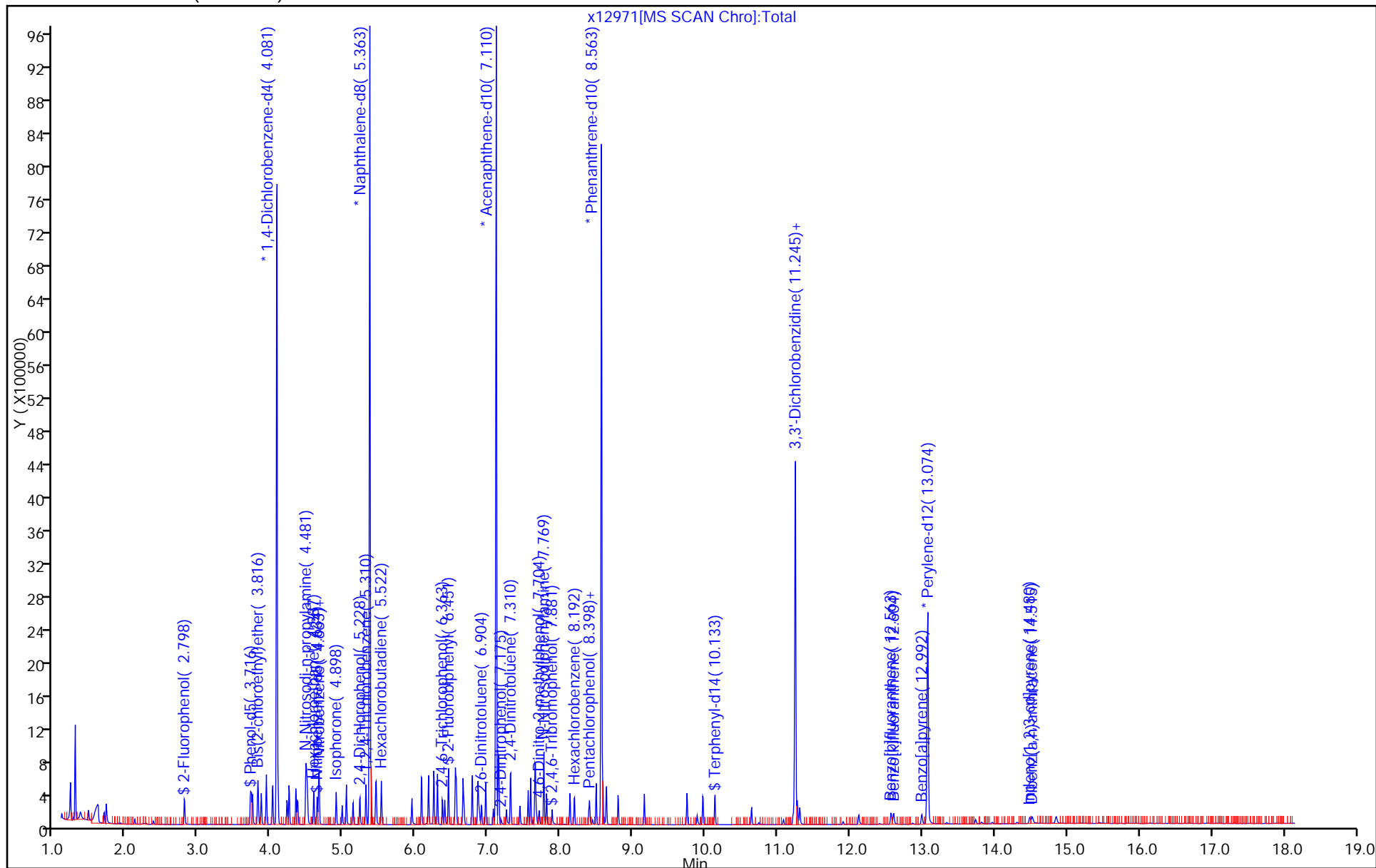
Dil. Factor: 1.0000

ALS Bottle#: 8

Method: 8270_5R

Limit Group: SV 8270D ICAL

Column: Rtxi-5Sil MS (0.25 mm)



TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS5\20160418-39964.b\12971.D

Injection Date: 18-Apr-2016 14:28:30

Instrument ID: CBNAMS5

Lims ID: std2

Client ID:

Operator ID:

ALS Bottle#:

8

Worklist Smp#: 8

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: 8270_5R

Limit Group: SV 8270D ICAL

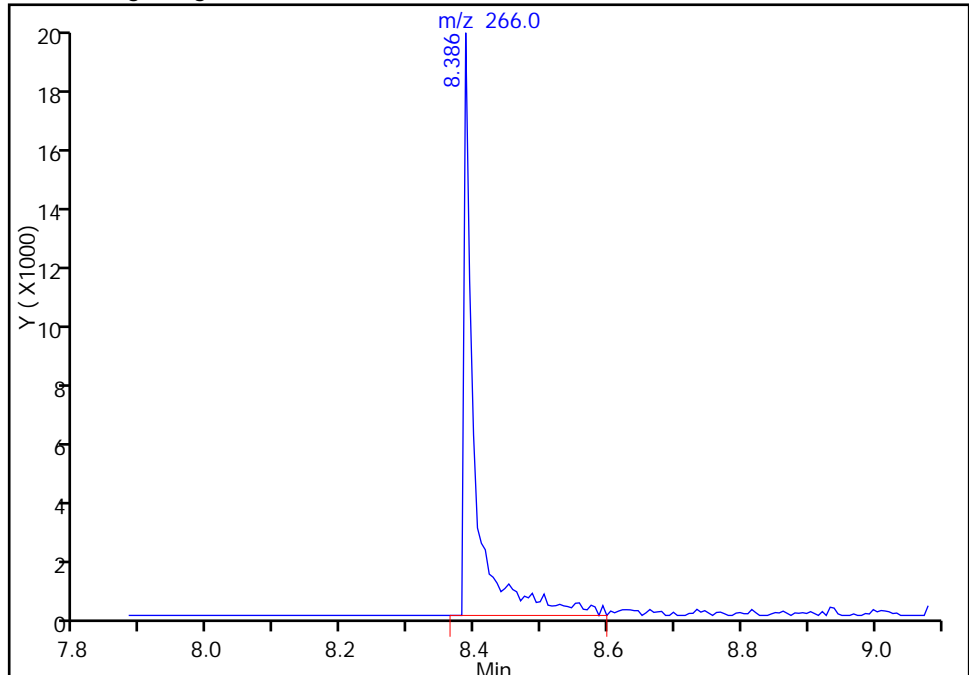
Column: Rtxi-5Sil MS (0.25 mm)

Detector: MS SCAN

85 Pentachlorophenol, CAS: 87-86-5

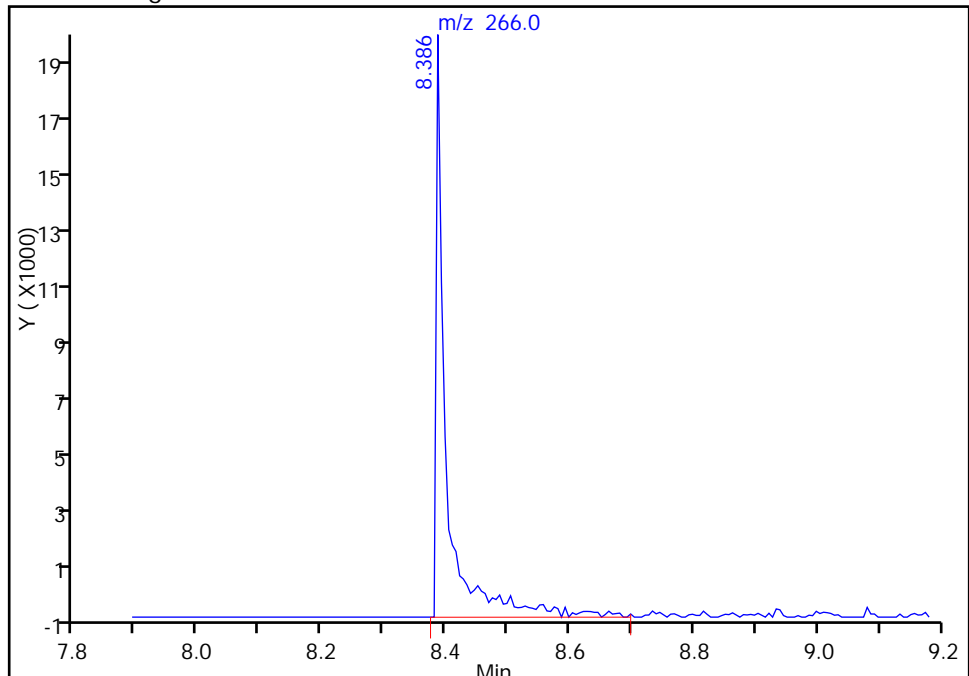
RT: 8.39
Area: 21965
Amount: 1.829350
Amount Units: ug/ml

Processing Integration Results



RT: 8.39
Area: 22738
Amount: 4.196285
Amount Units: ug/ml

Manual Integration Results



Reviewer: bayoumiw, 18-Apr-2016 17:02:07

Audit Action: Manually Integrated

Audit Reason: Baseline

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS5\20160418-39964.b\12972.D
 Lims ID: std1
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 18-Apr-2016 14:53:30 ALS Bottle#: 9 Worklist Smp#: 9
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 460-0039964-009
 Operator ID: Instrument ID: CBNAMS5
 Sublist: chrom-8270_5R*sub37
 Method: \\ChromNA\Edison\ChromData\CBNAMS5\20160418-39964.b\8270_5R.m
 Limit Group: SV 8270D ICAL
 Last Update: 18-Apr-2016 17:21:12 Calib Date: 18-Apr-2016 15:17:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS5\20160418-39964.b\12973.D
 Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK009

First Level Reviewer: croccom

Date: 18-Apr-2016 15:14:58

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
\$ 4 2-Fluorophenol	112	2.804	2.804	0.000	95	39924	1.00	0.8956	
\$ 6 Phenol-d5	99	3.710	3.740	-0.030	85	50036	1.00	0.9794	
9 Bis(2-chloroethyl)ether	93	3.810	3.828	-0.018	97	39144	1.00	1.04	
* 14 1,4-Dichlorobenzene-d4	152	4.081	4.081	0.000	96	1321800	40.0	40.0	
22 N-Nitrosodi-n-propylamine	70	4.492	4.510	-0.018	92	29747	1.00	1.19	
25 Hexachloroethane	117	4.587	4.592	-0.005	90	21304	1.00	1.10	
\$ 26 Nitrobenzene-d5	82	4.634	4.645	-0.011	89	41530	1.00	0.9411	
28 Nitrobenzene	77	4.657	4.669	-0.012	93	56077	1.00	1.02	
27 n,n'-Dimethylaniline	120	4.663	4.675	-0.012	91	67282	1.00	1.08	
37 1,2,4-Trichlorobenzene	180	5.310	5.316	-0.006	95	44818	1.00	1.02	
* 38 Naphthalene-d8	136	5.363	5.369	-0.006	99	4537065	40.0	40.0	
41 Hexachlorobutadiene	225	5.522	5.528	-0.006	95	28466	1.00	0.9861	
\$ 51 2-Fluorobiphenyl	172	6.451	6.457	-0.006	98	91735	1.00	0.9341	
60 2,6-Dinitrotoluene	165	6.910	6.916	-0.006	94	15950	1.00	0.9711	
* 65 Acenaphthene-d10	164	7.110	7.116	-0.006	91	2504035	40.0	40.0	
70 2,4-Dinitrotoluene	165	7.304	7.316	-0.012	93	18069	1.00	0.9622	
\$ 80 2,4,6-Tribromophenol	330	7.886	7.886	0.000	90	8579	1.00	0.7314	
83 Hexachlorobenzene	284	8.192	8.198	-0.006	96	26485	1.00	0.8890	
* 88 Phenanthrene-d10	188	8.563	8.563	0.000	97	3686170	40.0	40.0	
\$ 96 Terphenyl-d14	244	10.133	10.133	0.000	99	56006	1.00	0.8819	
101 Benzo[a]anthracene	228	11.233	11.233	0.000	97	66765	1.00	1.01	
* 102 Chrysene-d12	240	11.245	11.245	0.000	98	2223098	40.0	40.0	
106 Benzo[b]fluoranthene	252	12.568	12.574	-0.006	97	45263	1.00	0.9660	
107 Benzo[k]fluoranthene	252	12.604	12.610	-0.006	98	46627	1.00	0.9279	
108 Benzo[a]pyrene	252	12.992	12.998	-0.006	99	39404	1.00	0.9333	
* 109 Perylene-d12	264	13.074	13.074	0.000	99	1651234	40.0	40.0	
110 Indeno[1,2,3-cd]pyrene	276	14.486	14.492	-0.006	96	30323	1.00	0.8647	
111 Dibenz(a,h)anthracene	278	14.515	14.527	-0.012	95	28902	1.00	0.7938	

Reagents:

SV_IC_BNA_L2_00010

Amount Added: 1.00

Units: mL

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CBNAMS5\\20160418-39964.b\\x12972.D

Injection Date: 18-Apr-2016 14:53:30

Instrument ID: CBNAMS5

Operator ID:

Lims ID: std1

Worklist Smp#: 9

Client ID:

Injection Vol: 1.0 ul

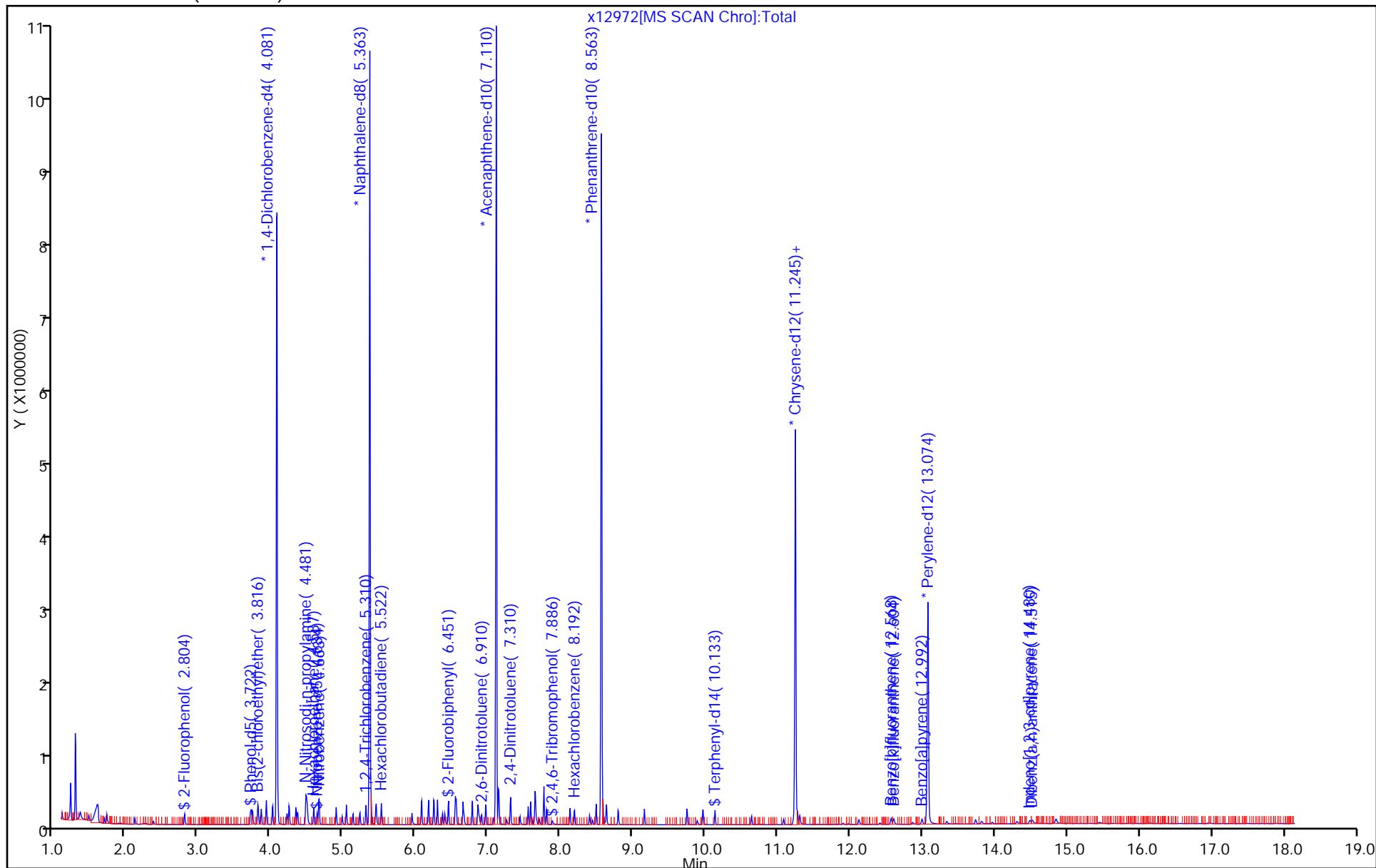
Dil. Factor: 1.0000

ALS Bottle#: 9

Method: 8270_5R

Limit Group: SV 8270D ICAL

Column: Rtxi-5Sil MS (0.25 mm)



TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS5\20160418-39964.b\12973.D
 Lims ID: std05
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 18-Apr-2016 15:17:30 ALS Bottle#: 10 Worklist Smp#: 10
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 460-0039964-010
 Operator ID: Instrument ID: CBNAMS5
 Sublist: chrom-8270_5R*sub37
 Method: \\ChromNA\Edison\ChromData\CBNAMS5\20160418-39964.b\8270_5R.m
 Limit Group: SV 8270D ICAL
 Last Update: 18-Apr-2016 17:21:22 Calib Date: 18-Apr-2016 15:17:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Edison\ChromData\CBNAMS5\20160418-39964.b\12973.D
 Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK009

First Level Reviewer: croccom

Date: 18-Apr-2016 15:38:46

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
9 Bis(2-chloroethyl)ether	93	3.810	3.828	-0.018	99	20568	0.5000	0.5537	
* 14 1,4-Dichlorobenzene-d4	152	4.081	4.081	0.000	97	1305822	40.0	40.0	
22 N-Nitrosodi-n-propylamine	70	4.493	4.510	-0.017	95	14762	0.5000	0.5972	
25 Hexachloroethane	117	4.587	4.592	-0.005	90	10469	0.5000	0.5465	
\$ 26 Nitrobenzene-d5	82	4.634	4.645	-0.011	91	20269	0.5000	0.4597	
28 Nitrobenzene	77	4.657	4.669	-0.012	92	29625	0.5000	0.5405	
27 n,n'-Dimethylaniline	120	4.663	4.675	-0.012	92	36487	0.5000	0.5947	
37 1,2,4-Trichlorobenzene	180	5.310	5.316	-0.006	94	23072	0.5000	0.5271	
* 38 Naphthalene-d8	136	5.363	5.369	-0.006	99	4532700	40.0	40.0	
\$ 51 2-Fluorobiphenyl	172	6.451	6.457	-0.006	99	47024	0.5000	0.4789	
* 65 Acenaphthene-d10	164	7.110	7.116	-0.006	90	2503628	40.0	40.0	
83 Hexachlorobenzene	284	8.192	8.198	-0.006	95	13708	0.5000	0.4717	
* 88 Phenanthrene-d10	188	8.563	8.563	0.000	97	3595340	40.0	40.0	
\$ 96 Terphenyl-d14	244	10.133	10.133	0.000	98	27696	0.5000	0.4270	
101 Benzo[a]anthracene	228	11.233	11.233	0.000	95	37919	0.5000	0.5641	
* 102 Chrysene-d12	240	11.245	11.245	0.000	98	2270453	40.0	40.0	
106 Benzo[b]fluoranthene	252	12.569	12.574	-0.005	96	23678	0.5000	0.4777	
107 Benzo[k]fluoranthene	252	12.604	12.610	-0.006	97	26303	0.5000	0.4948	M
108 Benzo[a]pyrene	252	12.992	12.998	-0.006	99	20640	0.5000	0.4622	
* 109 Perylene-d12	264	13.074	13.074	0.000	99	1746745	40.0	40.0	
110 Indeno[1,2,3-cd]pyrene	276	14.486	14.492	-0.006	97	15597	0.5000	0.4205	
111 Dibenz(a,h)anthracene	278	14.521	14.527	-0.006	95	15429	0.5000	0.4006	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

SV_IC_BNA_L1_00011

Amount Added: 1.00

Units: mL

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CBNAMS5\\20160418-39964.b\\x12973.D

Injection Date: 18-Apr-2016 15:17:30

Instrument ID: CBNAMS5

Operator ID:

Lims ID: std05

Worklist Smp#: 10

Client ID:

Injection Vol: 1.0 ul

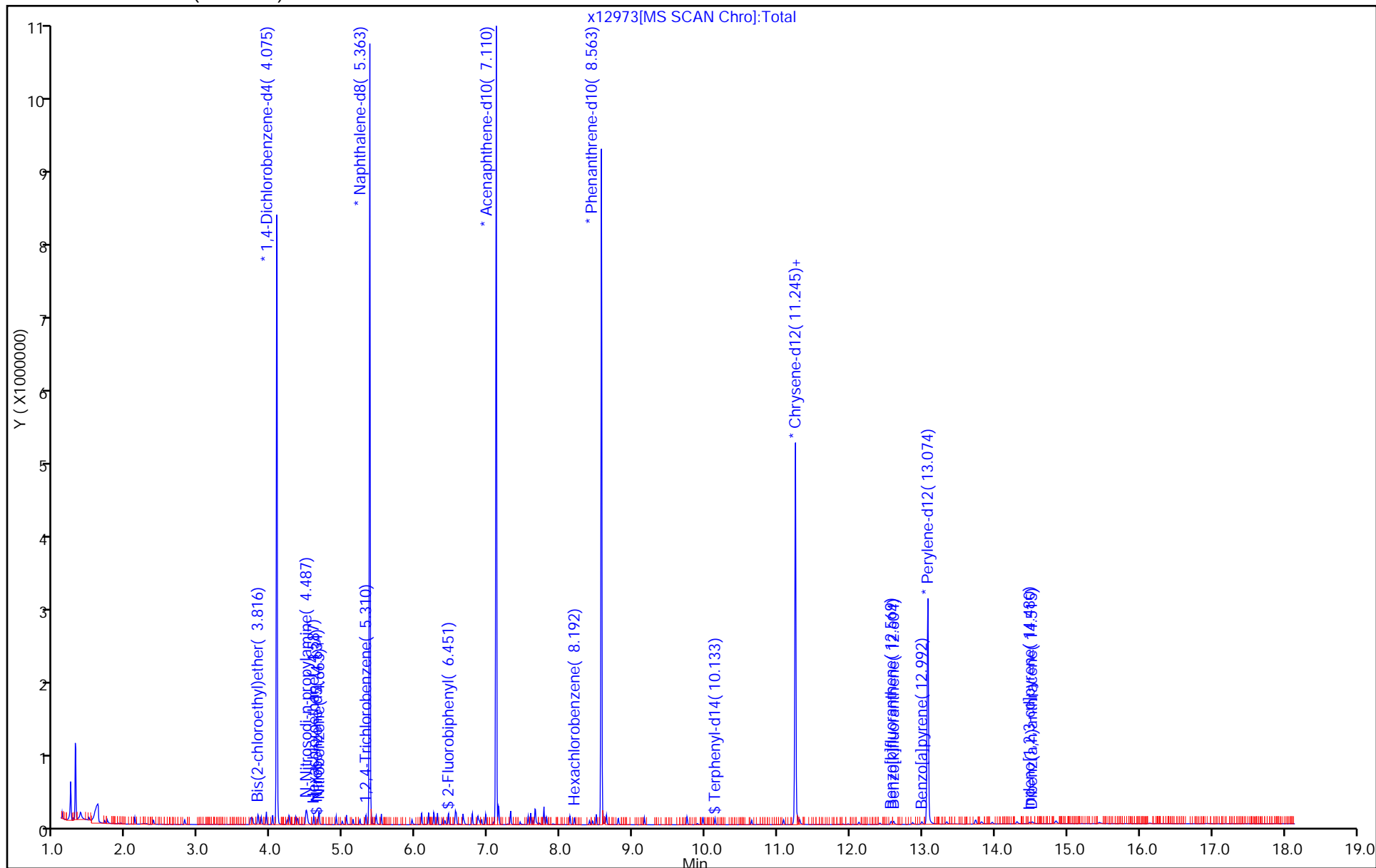
Dil. Factor: 1.0000

ALS Bottle#: 10

Method: 8270_5R

Limit Group: SV 8270D ICAL

Column: Rtxi-5Sil MS (0.25 mm)



TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS5\20160418-39964.b\12973.D

Injection Date: 18-Apr-2016 15:17:30

Instrument ID: CBNAMS5

Lims ID: std05

Client ID:

Operator ID:

ALS Bottle#:

10

Worklist Smp#:

10

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: 8270_5R

Limit Group:

SV 8270D ICAL

Column: Rtxi-5Sil MS (0.25 mm)

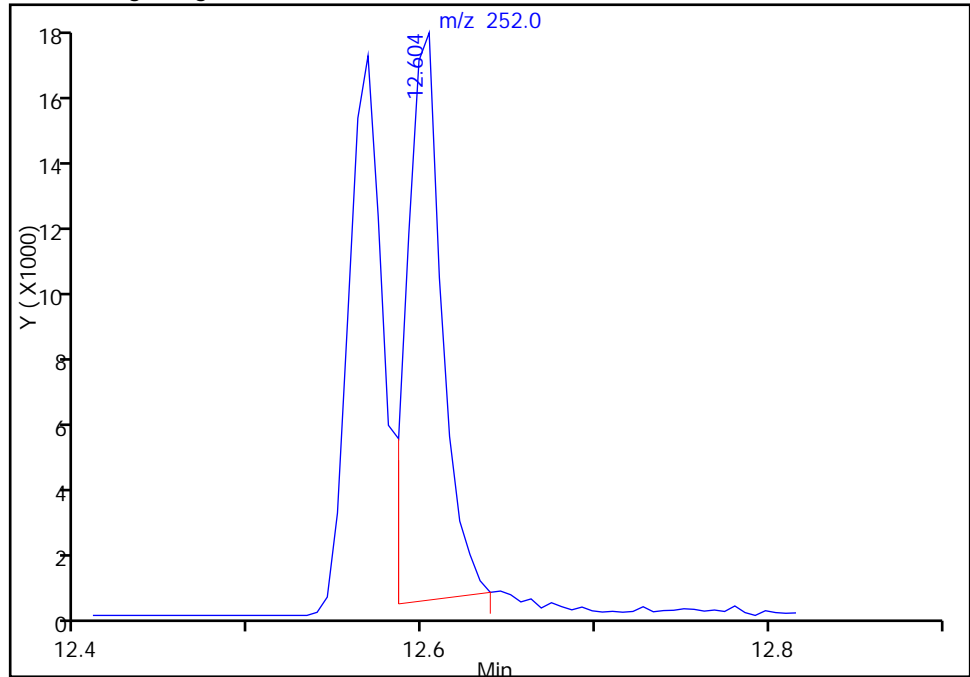
Detector

MS SCAN

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

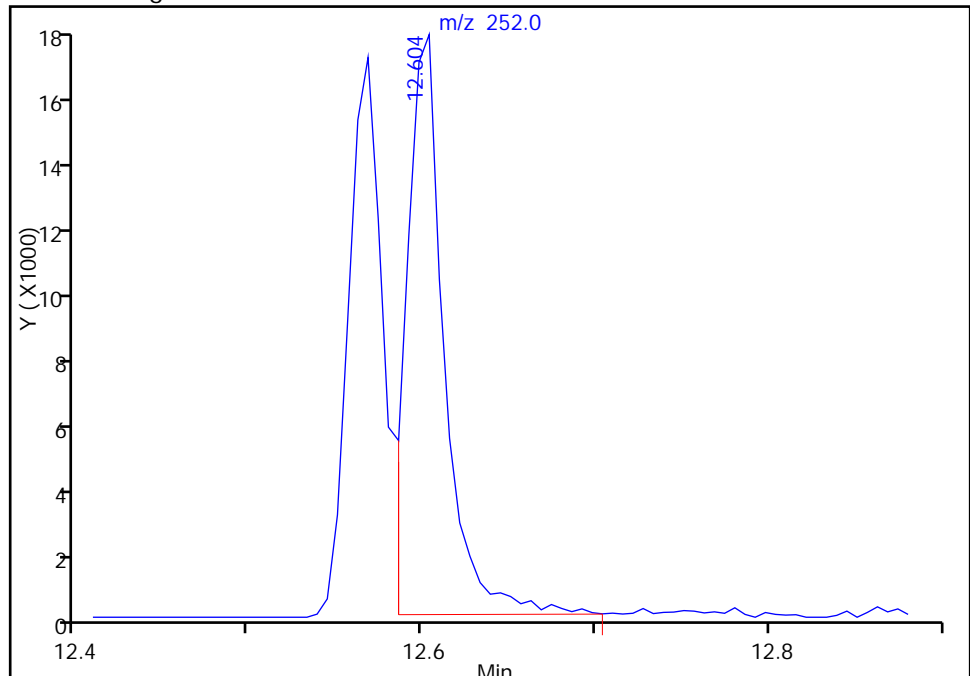
RT: 12.60
Area: 23780
Amount: 0.452137
Amount Units: ug/ml

Processing Integration Results



RT: 12.60
Area: 26303
Amount: 0.494833
Amount Units: ug/ml

Manual Integration Results



Reviewer: croccom, 18-Apr-2016 15:38:46

Audit Action: Manually Integrated

Audit Reason: Baseline

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-112518-1
SDG No.: _____
Lab Sample ID: ICV 460-361914/19 Calibration Date: 04/11/2016 22:26
Instrument ID: CBNAMS5 Calib Start Date: 04/11/2016 17:25
GC Column: Rtxi-5Sil MS ID: 0.25 (mm) Calib End Date: 04/11/2016 19:51
Lab File ID: x12709e.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Benzaldehyde	Ave	1.112	1.242	0.0100	27900	25000	11.7	30.0
Caprolactam	Ave	0.0769	0.1020	0.0100	33200	25000	32.7*	30.0
Atrazine	Ave	0.2042	0.2415	0.0100	29600	25000	18.2	30.0

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS5\20160411-39723.b\12709e.D
 Lims ID: icv
 Client ID:
 Sample Type: ICV
 Inject. Date: 11-Apr-2016 22:26:30 ALS Bottle#: 19 Worklist Smp#: 19
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 460-0039723-019
 Operator ID: Instrument ID: CBNAMS5
 Sublist:
 Method: \\ChromNA\Edison\ChromData\CBNAMS5\20160411-39723.b\8270_5R.m
 Limit Group: SV 8270D ICAL
 Last Update: 11-Apr-2016 23:59:55 Calib Date: 11-Apr-2016 19:51:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS5\20160411-39723.b\12707.D
 Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK015

First Level Reviewer: bayoumiw

Date: 11-Apr-2016 23:32:06

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
5 Benzaldehyde	77	4.065	4.071	-0.006	89	1040448	25.0	27.9	
* 14 1,4-Dichlorobenzene-d4	152	4.506	4.506	0.000	97	1340707	40.0	40.0	
* 38 Naphthalene-d8	136	5.783	5.783	0.000	99	4497487	40.0	40.0	
42 Caprolactam	113	6.183	6.194	-0.011	88	286678	25.0	33.2	
* 65 Acenaphthene-d10	164	7.535	7.541	-0.006	91	2423592	40.0	40.0	
84 Atrazine	200	8.718	8.718	0.000	95	521393	25.0	29.6	
* 88 Phenanthrene-d10	188	9.006	9.006	0.000	97	3454936	40.0	40.0	
* 102 Chrysene-d12	240	11.818	11.812	0.006	98	1984105	40.0	40.0	
* 109 Perylene-d12	264	13.782	13.782	0.000	98	1514479	40.0	40.0	

Reagents:

SM_ICV-short_00009

Amount Added: 1.00

Units: mL

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS5\20160411-39723.b\x12709e.D

Injection Date: 11-Apr-2016 22:26:30

Instrument ID: CBNAMS5

Operator ID:

Lims ID: icv

Worklist Smp#: 19

Client ID:

Injection Vol: 1.0 ul

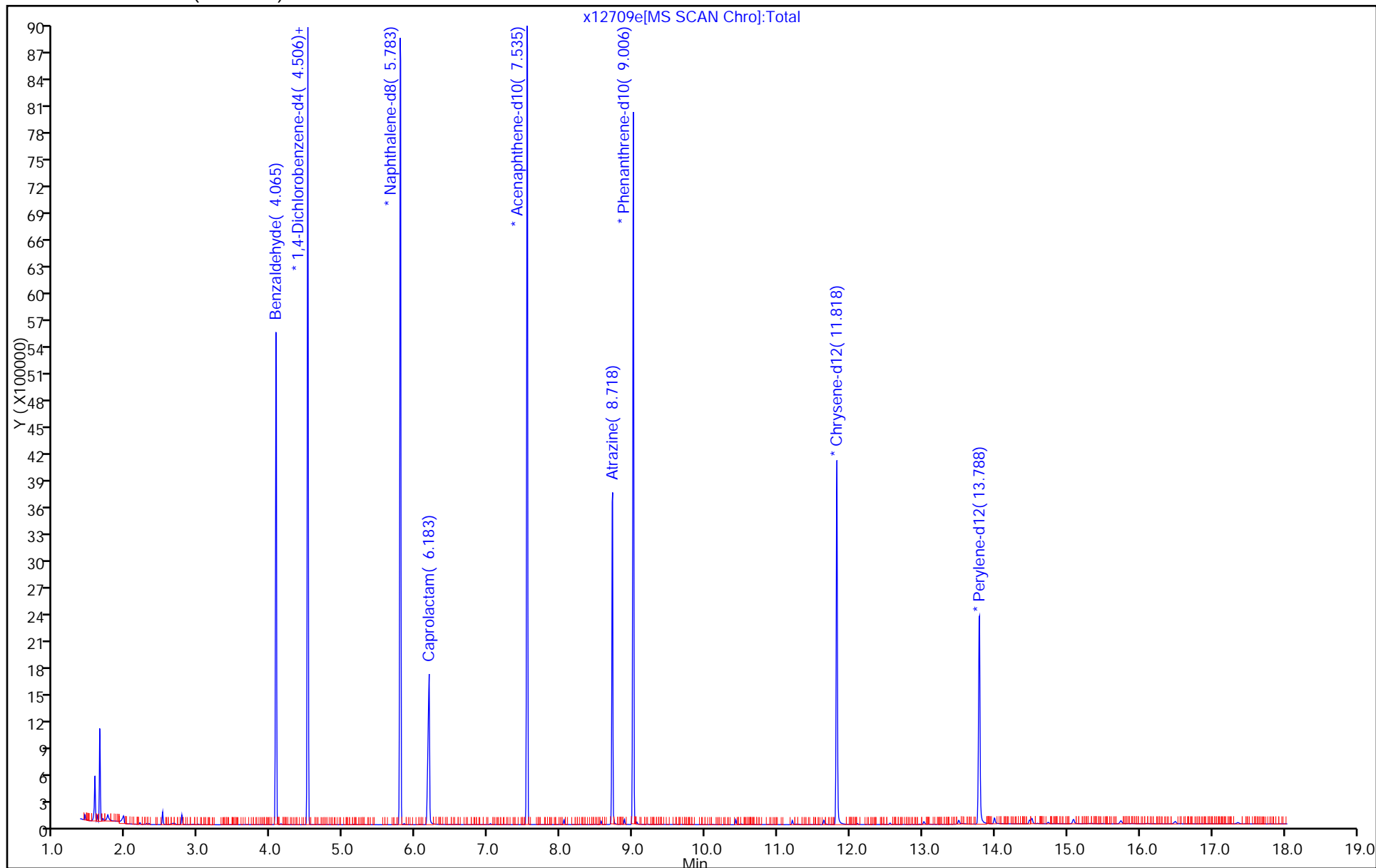
Dil. Factor: 1.0000

ALS Bottle#: 19

Method: 8270_5R

Limit Group: SV 8270D ICAL

Column: Rtxi-5Sil MS (0.25 mm)



FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-112518-1

SDG No.: _____

Lab Sample ID: ICV 460-363141/11 Calibration Date: 04/18/2016 15:54

Instrument ID: CBNAMS5 Calib Start Date: 04/18/2016 11:44

GC Column: Rtxi-5Sil MS ID: 0.25 (mm) Calib End Date: 04/18/2016 15:17

Lab File ID: x12974.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.5253	0.5365	0.0100	25500	25000	2.1	30.0
N-Nitrosodimethylamine	Ave	0.6822	0.6130		22500	25000	-10.1	30.0
Pyridine	Ave	1.184	1.266		26700	25000	6.9	30.0
Phenol	Ave	1.569	1.702	0.8000	27100	25000	8.5	30.0
Aniline	Ave	1.726	1.810		26200	25000	4.8	30.0
Bis(2-chloroethyl)ether	Ave	1.138	1.085	0.7000	23800	25000	-4.7	30.0
2-Chlorophenol	Ave	1.324	1.402	0.8000	26500	25000	5.9	30.0
n-Decane	Ave	1.556	1.597	0.0100	25700	25000	2.6	30.0
1,3-Dichlorobenzene	Ave	1.654	1.739		26300	25000	5.1	30.0
1,4-Dichlorobenzene	Ave	1.628	1.737		26700	25000	6.7	30.0
Benzyl alcohol	Ave	0.7884	0.8436	0.0100	26700	25000	7.0	30.0
1,2-Dichlorobenzene	Ave	1.512	1.627		26900	25000	7.6	30.0
2-Methylphenol	Ave	1.121	1.159	0.7000	25900	25000	3.4	30.0
2,2'-oxybis[1-chloropropane]	Ave	1.653	1.760	0.0100	26600	25000	6.5	30.0
Acetophenone	Ave	1.450	1.511	0.0100	26100	25000	4.2	30.0
N-Nitrosodi-n-propylamine	Ave	0.7572	0.7022	0.5000	23200	25000	-7.3	30.0
3 & 4 Methylphenol	Ave	1.117	1.199		26800	25000	7.4	30.0
4-Methylphenol	Ave	1.117	1.199	0.6000	26800	25000	7.4	30.0
Hexachloroethane	Ave	0.5868	0.5916	0.3000	25200	25000	0.8	30.0
Nitrobenzene	Ave	0.4837	0.4741	0.2000	24500	25000	-2.0	30.0
n,n'-Dimethylaniline	Ave	1.880	1.806	0.0100	24000	25000	-3.9	30.0
Isophorone	Ave	0.5932	0.5983	0.4000	25200	25000	0.9	30.0
2-Nitrophenol	Ave	0.2046	0.2184	0.1000	26700	25000	6.7	30.0
2,4-Dimethylphenol	Ave	0.3285	0.3360	0.2000	25600	25000	2.3	30.0
Bis(2-chloroethoxy)methane	Ave	0.3466	0.3550	0.3000	25600	25000	2.4	30.0
Benzoic acid	Lin2		0.1617		25900	25000	3.5	30.0
2,4-Dichlorophenol	Ave	0.3304	0.3455	0.2000	26100	25000	4.6	30.0
1,2,4-Trichlorobenzene	Ave	0.3863	0.3974		25700	25000	2.9	30.0
Naphthalene	Ave	1.036	1.095	0.7000	26400	25000	5.7	30.0
4-Chloroaniline	Ave	0.3920	0.3927	0.0100	25000	25000	0.2	30.0
Hexachlorobutadiene	Ave	0.2545	0.2675	0.0100	26300	25000	5.1	30.0
4-Chloro-3-methylphenol	Ave	0.2628	0.2802		26700	25000	6.6	30.0
2-Methylnaphthalene	Ave	0.7025	0.7040	0.4000	25100	25000	0.2	30.0
1-Methylnaphthalene	Ave	0.6011	0.6587	0.0100	27400	25000	9.6	30.0
Hexachlorocyclopentadiene	Ave	0.4545	0.4685	0.0500	25800	25000	3.1	30.0
1,2,4,5-Tetrachlorobenzene	Ave	0.6876	0.7132	0.0100	25900	25000	3.7	30.0
2-tertbutyl-4-methylphenol	Ave	0.4539	0.4692	0.0100	25800	25000	3.4	30.0
2,4,6-Trichlorophenol	Ave	0.3997	0.4327	0.2000	27100	25000	8.3	30.0
2,4,5-Trichlorophenol	Ave	0.4220	0.4586	0.2000	27200	25000	8.7	30.0
1,1'-Biphenyl	Ave	1.568	1.655	0.0100	26400	25000	5.6	30.0
2-Chloronaphthalene	Ave	1.203	1.274	0.8000	26500	25000	5.9	30.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-112518-1

SDG No.: _____

Lab Sample ID: ICV 460-363141/11 Calibration Date: 04/18/2016 15:54

Instrument ID: CBNAMS5 Calib Start Date: 04/18/2016 11:44

GC Column: Rtxi-5Sil MS ID: 0.25 (mm) Calib End Date: 04/18/2016 15:17

Lab File ID: x12974.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Phenyl ether	Ave	0.8690	0.9305	0.0100	26800	25000	7.1	30.0
2-Nitroaniline	Ave	0.3528	0.3631	0.0100	25700	25000	2.9	30.0
1,3-Dimethylnaphthalene	Ave	0.9773	1.070	0.0100	27400	25000	9.4	30.0
Dimethyl phthalate	Ave	1.117	1.154	0.0100	25800	25000	3.3	30.0
Coumarin	Ave	0.1781	0.1777	0.0100	24900	25000	-0.2	30.0
2,6-Dinitrotoluene	Ave	0.2624	0.2746	0.2000	26200	25000	4.7	30.0
Acenaphthylene	Ave	1.694	1.711	0.9000	25300	25000	1.0	30.0
3-Nitroaniline	Ave	0.2684	0.2696	0.0100	25100	25000	0.5	30.0
Acenaphthene	Ave	1.036	1.113	0.9000	26900	25000	7.5	30.0
3,5-di-tert-butyl-4-hydroxytol	Ave	1.236	1.313	0.0100	26600	25000	6.2	30.0
2,4-Dinitrophenol	Lin2		0.1432	0.0100	49500	50000	-0.9	30.0
4-Nitrophenol	Ave	0.1581	0.1534	0.0100	48500	50000	-3.0	30.0
2,4-Dinitrotoluene	Ave	0.3000	0.3045	0.2000	25400	25000	1.5	30.0
Dibenzofuran	Ave	1.559	1.626	0.8000	26100	25000	4.3	30.0
2,3,4,6-Tetrachlorophenol	Ave	0.3108	0.3231	0.0100	26000	25000	4.0	30.0
Diethyl phthalate	Ave	1.025	1.047	0.0100	25500	25000	2.1	30.0
Fluorene	Ave	1.147	1.194	0.9000	26000	25000	4.1	30.0
4-Chlorophenyl phenyl ether	Ave	0.6125	0.6476	0.4000	26400	25000	5.7	30.0
4-Nitroaniline	Ave	0.2180	0.2164	0.0100	24800	25000	-0.7	30.0
4,6-Dinitro-2-methylphenol	Lin2		0.1401	0.0100	51000	50000	2.0	30.0
N-Nitrosodiphenylamine	Ave	0.6191	0.7524	0.0100	51600	42500	21.5	30.0
1,2-Diphenylhydrazine	Ave	0.6881	0.7379	0.0100	26800	25000	7.2	30.0
4-Bromophenyl phenyl ether	Ave	0.2769	0.2923	0.1000	26400	25000	5.5	30.0
Hexachlorobenzene	Ave	0.3233	0.3520	0.1000	27200	25000	8.9	30.0
Pentachlorophenol	Lin2		0.1727	0.0500	50600	50000	1.3	30.0
Pentachloronitrobenzene	Ave	0.1148	0.1277	0.0100	27800	25000	11.2	30.0
n-Octadecane	Ave	0.4930	0.5065	0.0100	25700	25000	2.7	30.0
Phenanthrene	Ave	1.101	1.127	0.7000	25600	25000	2.4	30.0
Anthracene	Ave	1.101	1.154	0.7000	26200	25000	4.8	30.0
Carbazole	Ave	0.8603	0.8488	0.0100	24700	25000	-1.3	30.0
Di-n-butyl phthalate	Ave	1.026	1.035	0.0100	25200	25000	0.9	30.0
Fluoranthene	Ave	0.9630	0.9646	0.6000	25000	25000	0.2	30.0
Benidine	Ave	0.4475	0.3895		21800	25000	-12.9	30.0
Pyrene	Ave	1.510	1.529	0.6000	25300	25000	1.3	30.0
Bisphenol-A	Ave	0.5160	0.4269		20700	25000	-17.3	30.0
Butyl benzyl phthalate	Ave	0.5314	0.5431	0.0100	25500	25000	2.2	30.0
Carbamazepine	Qua		0.3392	0.0100	25700	25000	3.0	30.0
3,3'-Dichlorobenzidine	Ave	0.4209	0.4306	0.0100	25600	25000	2.3	30.0
Benzo[a]anthracene	Ave	1.184	1.222	0.8000	25800	25000	3.2	30.0
Chrysene	Ave	1.048	1.123	0.7000	26800	25000	7.1	30.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-112518-1
 SDG No.: _____
 Lab Sample ID: ICV 460-363141/11 Calibration Date: 04/18/2016 15:54
 Instrument ID: CBNAMS5 Calib Start Date: 04/18/2016 11:44
 GC Column: Rtxi-5Sil MS ID: 0.25 (mm) Calib End Date: 04/18/2016 15:17
 Lab File ID: x12974.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Bis(2-ethylhexyl) phthalate	Ave	0.7240	0.7187	0.0100	24800	25000	-0.7	30.0
Di-n-octyl phthalate	Ave	1.361	1.399	0.0100	25700	25000	2.8	30.0
Benzo[b]fluoranthene	Ave	1.135	1.208	0.7000	26600	25000	6.4	30.0
Benzo[k]fluoranthene	Ave	1.217	1.257	0.7000	25800	25000	3.3	30.0
Benzo[a]pyrene	Ave	1.023	1.080	0.7000	26400	25000	5.6	30.0
Indeno[1,2,3-cd]pyrene	Ave	0.8494	0.8855	0.5000	26100	25000	4.2	30.0
Dibenz(a,h)anthracene	Ave	0.8820	0.9691	0.4000	27500	25000	9.9	30.0
Benzo[g,h,i]perylene	Ave	0.9481	0.9714	0.5000	25600	25000	2.4	30.0

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS5\20160418-39964.b\12974.D
 Lims ID: icv
 Client ID:
 Sample Type: ICV
 Inject. Date: 18-Apr-2016 15:54:30 ALS Bottle#: 11 Worklist Smp#: 11
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 460-0039964-011
 Operator ID: Instrument ID: CBNAMS5
 Sublist:
 Method: \\ChromNA\Edison\ChromData\CBNAMS5\20160418-39964.b\8270_5R.m
 Limit Group: SV 8270D ICAL
 Last Update: 18-Apr-2016 17:21:22 Calib Date: 18-Apr-2016 15:17:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS5\20160418-39964.b\12973.D
 Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK009

First Level Reviewer: croccom

Date: 18-Apr-2016 16:18:37

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	1.475	1.463	0.012	97	411118	25.0	25.5	
2 N-Nitrosodimethylamine	74	1.687	1.687	0.000	73	469725	25.0	22.5	
3 Pyridine	79	1.710	1.710	0.000	85	969939	25.0	26.7	
7 Phenol	94	3.734	3.751	-0.017	99	1304441	25.0	27.1	
8 Aniline	93	3.746	3.751	-0.005	97	1386657	25.0	26.2	
9 Bis(2-chloroethyl)ether	93	3.816	3.828	-0.012	97	831292	25.0	23.8	
10 Benzonitrile	103	3.828	3.845	-0.017	67	1790037	NC	NC	
11 2-Chlorophenol	128	3.869	3.875	-0.006	96	1074040	25.0	26.5	
12 n-Decane	43	3.934	3.940	-0.006	92	1223779	25.0	25.7	
13 1,3-Dichlorobenzene	146	4.022	4.028	-0.006	96	1332521	25.0	26.3	
* 14 1,4-Dichlorobenzene-d4	152	4.075	4.081	-0.006	97	1226043	40.0	40.0	
15 1,4-Dichlorobenzene	146	4.093	4.098	-0.005	96	1331058	25.0	26.7	
16 Benzyl alcohol	108	4.222	4.234	-0.012	94	646404	25.0	26.7	
17 1,2-Dichlorobenzene	146	4.245	4.251	-0.006	97	1246516	25.0	26.9	
18 2-Methylphenol	108	4.345	4.357	-0.012	89	888240	25.0	25.9	
19 2,2'-oxybis[1-chloropropan	45	4.369	4.375	-0.006	89	1348760	25.0	26.6	
20 N-Methylaniline	106	4.481	4.487	-0.006	86	1388098	NC	NC	
21 Acetophenone	105	4.493	4.504	-0.011	94	1157904	25.0	26.1	
22 N-Nitrosodi-n-propylamine	70	4.498	4.510	-0.012	95	538073	25.0	23.2	
23 3 & 4 Methylphenol	108	4.510	4.522	-0.012	91	919023	25.0	26.8	
24 4-Methylphenol	108	4.510	4.522	-0.012	90	919023	25.0	26.8	
25 Hexachloroethane	117	4.587	4.592	-0.005	88	453313	25.0	25.2	
28 Nitrobenzene	77	4.663	4.669	-0.006	91	1206942	25.0	24.5	
27 n,n'-Dimethylaniline	120	4.669	4.675	-0.006	96	1384201	25.0	24.0	
31 Isophorone	82	4.904	4.916	-0.012	98	1523303	25.0	25.2	
32 2-Nitrophenol	139	4.981	4.987	-0.006	92	555907	25.0	26.7	
33 2,4-Dimethylphenol	122	5.045	5.051	-0.006	92	855520	25.0	25.6	
34 Bis(2-chloroethoxy)methane	93	5.134	5.140	-0.006	100	903858	25.0	25.6	
35 Benzoic acid	122	5.175	5.204	-0.029	90	411665	25.0	25.9	
36 2,4-Dichlorophenol	162	5.228	5.234	-0.006	96	879575	25.0	26.1	
37 1,2,4-Trichlorobenzene	180	5.310	5.316	-0.006	94	1011642	25.0	25.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 38 Naphthalene-d8	136	5.363	5.369	-0.006	99	4073514	40.0	40.0	
39 Naphthalene	128	5.387	5.387	0.000	100	2787811	25.0	26.4	
40 4-Chloroaniline	127	5.445	5.451	-0.006	97	999833	25.0	25.0	
41 Hexachlorobutadiene	225	5.522	5.528	-0.006	96	681134	25.0	26.3	
43 4-Chloro-3-methylphenol	107	5.945	5.951	-0.006	97	713413	25.0	26.7	
44 2-Methylnaphthalene	142	6.081	6.081	0.000	86	1792368	25.0	25.1	
45 1-Methylnaphthalene	142	6.175	6.181	-0.006	94	1677031	25.0	27.4	
46 Hexachlorocyclopentadiene	237	6.245	6.251	-0.006	96	595166	25.0	25.8	
47 1,2,4,5-Tetrachlorobenzene	216	6.251	6.257	-0.006	98	905941	25.0	25.9	
48 2-tertbutyl-4-methylphenol	149	6.298	6.304	-0.006	92	1194581	25.0	25.8	
49 2,4,6-Trichlorophenol	196	6.369	6.369	0.000	92	549630	25.0	27.1	
50 2,4,5-Trichlorophenol	196	6.398	6.404	-0.006	97	582533	25.0	27.2	
52 1,1'-Biphenyl	154	6.545	6.551	-0.006	95	2102638	25.0	26.4	
53 2-Chloronaphthalene	162	6.563	6.563	0.000	98	1618881	25.0	26.5	
54 Phenyl ether	170	6.651	6.657	-0.006	85	1182038	25.0	26.8	
56 2-Nitroaniline	65	6.669	6.675	-0.006	95	461230	25.0	25.7	
57 1,3-Dimethylnaphthalene	156	6.781	6.786	-0.005	94	1358663	25.0	27.4	
58 Dimethyl phthalate	163	6.863	6.869	-0.006	99	1465411	25.0	25.8	
59 Coumarin	146	6.869	6.875	-0.006	81	452484	25.0	24.9	
60 2,6-Dinitrotoluene	165	6.916	6.916	0.000	96	348808	25.0	26.2	
61 Acenaphthylene	152	6.969	6.975	-0.006	97	2173679	25.0	25.3	
64 3-Nitroaniline	138	7.075	7.081	-0.006	96	342479	25.0	25.1	
* 65 Acenaphthene-d10	164	7.110	7.116	-0.006	90	2032441	40.0	40.0	
67 Acenaphthene	154	7.139	7.145	-0.006	92	1413763	25.0	26.9	
66 3,5-di-tert-butyl-4-hydrox	205	7.151	7.157	-0.006	96	1668282	25.0	26.6	
68 2,4-Dinitrophenol	184	7.181	7.186	-0.005	94	363857	50.0	49.5	
69 4-Nitrophenol	65	7.257	7.263	-0.006	89	389647	50.0	48.5	
70 2,4-Dinitrotoluene	165	7.310	7.316	-0.006	93	386846	25.0	25.4	
71 Dibenzofuran	168	7.316	7.316	0.000	95	2065604	25.0	26.1	
72 2,3,4,6-Tetrachlorophenol	232	7.439	7.439	0.000	96	410471	25.0	26.0	
73 Diethyl phthalate	149	7.557	7.563	-0.006	99	1330141	25.0	25.5	
75 Fluorene	166	7.651	7.651	0.000	95	1517035	25.0	26.0	
74 4-Chlorophenyl phenyl ethe	204	7.657	7.657	0.000	92	822605	25.0	26.4	
76 4-Nitroaniline	138	7.675	7.686	-0.011	85	274880	25.0	24.8	
77 4,6-Dinitro-2-methylphenol	198	7.710	7.716	-0.006	90	467813	50.0	51.0	
78 N-Nitrosodiphenylamine	169	7.775	7.781	-0.006	66	2136032	42.5	51.6	
79 1,2-Diphenylhydrazine	77	7.810	7.816	-0.006	96	1232311	25.0	26.8	
81 4-Bromophenyl phenyl ether	248	8.133	8.133	0.000	94	488078	25.0	26.4	
83 Hexachlorobenzene	284	8.192	8.198	-0.006	94	587882	25.0	27.2	
85 Pentachlorophenol	266	8.386	8.392	-0.006	95	576888	50.0	50.6	
86 Pentachloronitrobenzene	237	8.404	8.404	0.000	92	213321	25.0	27.8	
87 n-Octadecane	57	8.492	8.492	0.000	97	845939	25.0	25.7	
* 88 Phenanthrene-d10	188	8.563	8.563	0.000	97	2672128	40.0	40.0	
89 Phenanthrene	178	8.586	8.592	-0.006	96	1882746	25.0	25.6	
90 Anthracene	178	8.633	8.639	-0.006	99	1926714	25.0	26.2	
91 Carbazole	167	8.798	8.798	0.000	96	1417553	25.0	24.7	
92 Di-n-butyl phthalate	149	9.163	9.157	0.006	100	1728750	25.0	25.2	
93 Fluoranthene	202	9.751	9.751	0.000	99	1610964	25.0	25.0	
94 Benzidine	184	9.886	9.886	0.000	99	650546	25.0	21.8	
95 Pyrene	202	9.969	9.969	0.000	99	1627758	25.0	25.3	
82 Bisphenol-A	213	10.039	10.033	0.006	99	454433	25.0	20.7	
97 Butyl benzyl phthalate	149	10.639	10.639	0.000	96	578076	25.0	25.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
99 Carbamazepine	193	10.745	10.745	0.000	91	361038	25.0	25.7	
100 3,3'-Dichlorobenzidine	252	11.216	11.216	0.000	98	458329	25.0	25.6	
101 Benzo[a]anthracene	228	11.233	11.233	0.000	96	1300862	25.0	25.8	
* 102 Chrysene-d12	240	11.245	11.245	0.000	98	1703180	40.0	40.0	
103 Chrysene	228	11.274	11.274	0.000	99	1195400	25.0	26.8	
104 Bis(2-ethylhexyl) phthalat	149	11.310	11.304	0.006	87	765011	25.0	24.8	
105 Di-n-octyl phthalate	149	12.121	12.121	0.000	97	1172982	25.0	25.7	
106 Benzo[b]fluoranthene	252	12.574	12.574	0.000	97	1013055	25.0	26.6	
107 Benzo[k]fluoranthene	252	12.610	12.610	0.000	97	1054047	25.0	25.8	
108 Benzo[a]pyrene	252	12.998	12.998	0.000	99	905277	25.0	26.4	
* 109 Perylene-d12	264	13.074	13.074	0.000	99	1341707	40.0	40.0	
110 Indeno[1,2,3-cd]pyrene	276	14.492	14.492	0.000	97	742511	25.0	26.1	
111 Dibenz(a,h)anthracene	278	14.527	14.527	0.000	98	812619	25.0	27.5	
112 Benzo[g,h,i]perylene	276	14.857	14.862	-0.005	96	814550	25.0	25.6	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

SM_ICV-long_00010

Amount Added: 1.00

Units: mL

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CBNAMS5\\20160418-39964.b\\x12974.D

Injection Date: 18-Apr-2016 15:54:30

Instrument ID: CBNAMS5

Lims ID: icv

Operator ID:
Worklist Smp#: 11

Client ID:

Injection Vol: 1.0 ul

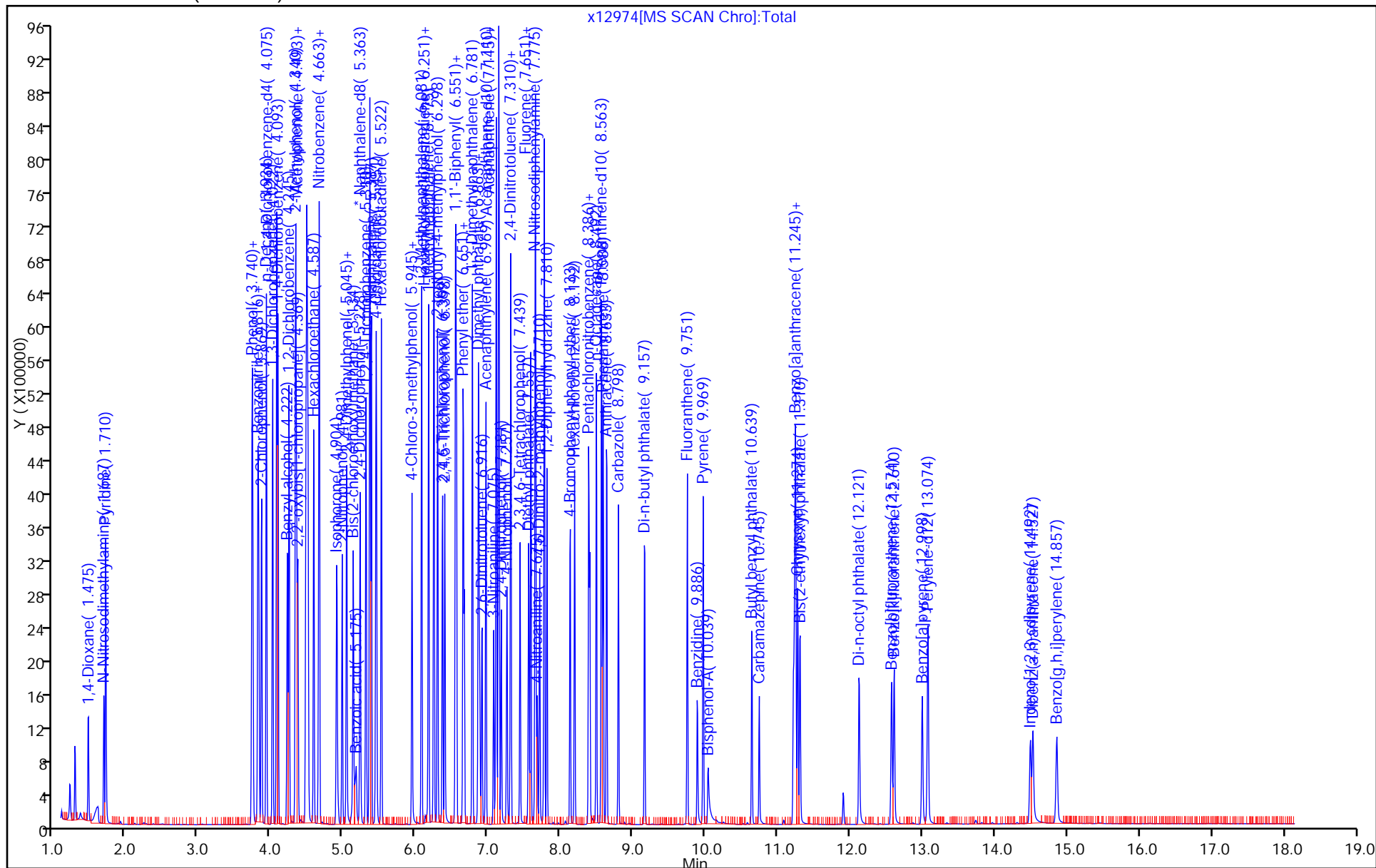
Dil. Factor: 1.0000

ALS Bottle#: 11

Method: 8270_5R

Limit Group: SV 8270D ICAL

Column: Rtxi-5Sil MS (0.25 mm)



FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-112518-1

SDG No.: _____

Lab Sample ID: CCVIS 460-364897/2 Calibration Date: 04/27/2016 04:36

Instrument ID: CBNAMS5 Calib Start Date: 04/18/2016 11:44

GC Column: Rtxi-5Sil MS ID: 0.25 (mm) Calib End Date: 04/18/2016 15:17

Lab File ID: x13331.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.5253	0.5110	0.0100	48600	50000	-2.7	20.0
N-Nitrosodimethylamine	Ave	0.6822	0.6794		49800	50000	-0.4	20.0
Pyridine	Ave	1.184	1.164		49200	50000	-1.7	20.0
Aniline	Ave	1.726	1.712		49600	50000	-0.8	20.0
Phenol	Ave	1.569	1.532	0.8000	48800	50000	-2.3	20.0
Bis(2-chloroethyl)ether	Ave	1.138	1.014	0.7000	44500	50000	-10.9	20.0
2-Chlorophenol	Ave	1.324	1.301	0.8000	49100	50000	-1.7	20.0
n-Decane	Ave	1.556	1.450	0.0100	46600	50000	-6.8	20.0
1,3-Dichlorobenzene	Ave	1.654	1.609		48700	50000	-2.7	20.0
1,4-Dichlorobenzene	Ave	1.628	1.571		48300	50000	-3.5	20.0
1,2-Dichlorobenzene	Ave	1.512	1.435		47400	50000	-5.1	20.0
Benzyl alcohol	Ave	0.7884	0.7886	0.0100	50000	50000	0.0	20.0
2,2'-oxybis[1-chloropropane]	Ave	1.653	1.492	0.0100	45100	50000	-9.7	20.0
2-Methylphenol	Ave	1.121	1.058	0.7000	47200	50000	-5.6	20.0
Acetophenone	Ave	1.450	1.431	0.0100	49400	50000	-1.3	20.0
N-Nitrosodi-n-propylamine	Ave	0.7572	0.6940	0.5000	45800	50000	-8.3	20.0
3 & 4 Methylphenol	Ave	1.117	1.087		48700	50000	-2.6	20.0
4-Methylphenol	Ave	1.117	1.087	0.6000	48700	50000	-2.6	20.0
Hexachloroethane	Ave	0.5868	0.5350	0.3000	45600	50000	-8.8	20.0
n,n'-Dimethylaniline	Ave	1.880	1.747	0.0100	46500	50000	-7.0	20.0
Nitrobenzene	Ave	0.4837	0.4556	0.2000	47100	50000	-5.8	20.0
Isophorone	Ave	0.5932	0.5613	0.4000	47300	50000	-5.4	20.0
2-Nitrophenol	Ave	0.2046	0.2020	0.1000	49400	50000	-1.3	20.0
2,4-Dimethylphenol	Ave	0.3285	0.3117	0.2000	47500	50000	-5.1	20.0
Bis(2-chloroethoxy)methane	Ave	0.3466	0.3250	0.3000	46900	50000	-6.2	20.0
2,4-Dichlorophenol	Ave	0.3304	0.3208	0.2000	48500	50000	-2.9	20.0
Benzoic acid	Lin2		0.1767		53300	50000	6.5	20.0
1,2,4-Trichlorobenzene	Ave	0.3863	0.3740		48400	50000	-3.2	20.0
Naphthalene	Ave	1.036	0.9943	0.7000	48000	50000	-4.0	20.0
4-Chloroaniline	Ave	0.3920	0.3794	0.0100	48400	50000	-3.2	20.0
Hexachlorobutadiene	Ave	0.2545	0.2556	0.0100	50200	50000	0.4	20.0
4-Chloro-3-methylphenol	Ave	0.2628	0.2541		48300	50000	-3.3	20.0
2-Methylnaphthalene	Ave	0.7025	0.6778	0.4000	48200	50000	-3.5	20.0
1-Methylnaphthalene	Ave	0.6011	0.5757	0.0100	47900	50000	-4.2	20.0
Hexachlorocyclopentadiene	Ave	0.4545	0.4854	0.0500	53400	50000	6.8	20.0
1,2,4,5-Tetrachlorobenzene	Ave	0.6876	0.6883	0.0100	50100	50000	0.1	20.0
2-tertbutyl-4-methylphenol	Ave	0.4539	0.4460	0.0100	49100	50000	-1.7	20.0
2,4,6-Trichlorophenol	Ave	0.3997	0.4128	0.2000	51600	50000	3.3	20.0
2,4,5-Trichlorophenol	Ave	0.4220	0.4189	0.2000	49600	50000	-0.7	20.0
1,1'-Biphenyl	Ave	1.568	1.508	0.0100	48100	50000	-3.8	20.0
2-Chloronaphthalene	Ave	1.203	1.166	0.8000	48500	50000	-3.1	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-112518-1

SDG No.: _____

Lab Sample ID: CCVIS 460-364897/2 Calibration Date: 04/27/2016 04:36

Instrument ID: CBNAMS5 Calib Start Date: 04/18/2016 11:44

GC Column: Rtxi-5Sil MS ID: 0.25 (mm) Calib End Date: 04/18/2016 15:17

Lab File ID: x13331.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Phenyl ether	Ave	0.8690	0.8688	0.0100	50000	50000	-0.0	20.0
2-Nitroaniline	Ave	0.3528	0.3562	0.0100	50500	50000	1.0	20.0
1,3-Dimethylnaphthalene	Ave	0.9773	0.9717	0.0100	49700	50000	-0.6	20.0
Coumarin	Ave	0.1781	0.1787	0.0100	50100	50000	0.3	20.0
Dimethyl phthalate	Ave	1.117	1.073	0.0100	48100	50000	-3.9	20.0
2,6-Dinitrotoluene	Ave	0.2624	0.2583	0.2000	49200	50000	-1.6	20.0
Acenaphthylene	Ave	1.694	1.636	0.9000	48300	50000	-3.4	20.0
3-Nitroaniline	Ave	0.2684	0.2601	0.0100	48500	50000	-3.1	20.0
Acenaphthene	Ave	1.036	1.053	0.9000	50800	50000	1.7	20.0
3,5-di-tert-butyl-4-hydroxytol	Ave	1.236	1.280	0.0100	51800	50000	3.5	20.0
2,4-Dinitrophenol	Lin2		0.1545	0.0100	104000	100000	3.5	20.0
4-Nitrophenol	Ave	0.1581	0.1641	0.0100	104000	100000	3.8	20.0
Dibenzofuran	Ave	1.559	1.528	0.8000	49000	50000	-2.0	20.0
2,4-Dinitrotoluene	Ave	0.3000	0.3061	0.2000	51000	50000	2.0	20.0
2,3,4,6-Tetrachlorophenol	Ave	0.3108	0.3227	0.0100	51900	50000	3.8	20.0
Diethyl phthalate	Ave	1.025	0.996	0.0100	48500	50000	-2.9	20.0
n-Octadecane	Ave	0.4930	0.5158	0.0100	52300	50000	4.6	20.0
Fluorene	Ave	1.147	1.147	0.9000	50000	50000	-0.0	20.0
4-Chlorophenyl phenyl ether	Ave	0.6125	0.6143	0.4000	50100	50000	0.3	20.0
4-Nitroaniline	Ave	0.2180	0.2207	0.0100	50600	50000	1.3	20.0
4,6-Dinitro-2-methylphenol	Lin2		0.1416	0.0100	101000	100000	1.1	20.0
N-Nitrosodiphenylamine	Ave	0.6191	0.5949	0.0100	96100	100000	-3.9	20.0
1,2-Diphenylhydrazine	Ave	0.6881	0.6463	0.0100	47000	50000	-6.1	20.0
4-Bromophenyl phenyl ether	Ave	0.2769	0.2764	0.1000	49900	50000	-0.2	20.0
Hexachlorobenzene	Ave	0.3233	0.3487	0.1000	53900	50000	7.9	20.0
Pentachlorophenol	Lin2		0.1808	0.0500	103000	100000	3.2	20.0
Pentachloronitrobenzene	Ave	0.1148	0.1266	0.0100	55100	50000	10.3	20.0
Phenanthrene	Ave	1.101	1.069	0.7000	48500	50000	-2.9	20.0
Anthracene	Ave	1.101	1.088	0.7000	49400	50000	-1.2	20.0
Carbazole	Ave	0.8603	0.8362	0.0100	48600	50000	-2.8	20.0
Di-n-butyl phthalate	Ave	1.026	0.9720	0.0100	47400	50000	-5.2	20.0
Fluoranthene	Ave	0.9630	0.9358	0.6000	48600	50000	-2.8	20.0
Benidine	Ave	0.4475	0.4352		48600	50000	-2.7	20.0
Pyrene	Ave	1.510	1.498	0.6000	49600	50000	-0.8	20.0
Bisphenol-A	Ave	0.5160	0.5701		55200	50000	10.5	20.0
Butyl benzyl phthalate	Ave	0.5314	0.5207	0.0100	49000	50000	-2.0	20.0
2,3,7,8-TCDD	Ave	0.1915	0.2176	0.0100	568	500	13.6	20.0
Carbamazepine	Qua		0.4597	0.0100	59700	50000	19.4	20.0
3,3'-Dichlorobenzidine	Ave	0.4209	0.4556	0.0100	54100	50000	8.2	20.0
Benzo[a]anthracene	Ave	1.184	1.212	0.8000	51200	50000	2.4	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-112518-1
 SDG No.: _____
 Lab Sample ID: CCVIS 460-364897/2 Calibration Date: 04/27/2016 04:36
 Instrument ID: CBNAMS5 Calib Start Date: 04/18/2016 11:44
 GC Column: Rtxi-5Sil MS ID: 0.25 (mm) Calib End Date: 04/18/2016 15:17
 Lab File ID: x13331.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chrysene	Ave	1.048	1.029	0.7000	49100	50000	-1.9	20.0
Bis(2-ethylhexyl) phthalate	Ave	0.7240	0.6818	0.0100	47100	50000	-5.8	20.0
Di-n-octyl phthalate	Ave	1.361	1.270	0.0100	46600	50000	-6.7	20.0
Benzo[b]fluoranthene	Ave	1.135	1.210	0.7000	53300	50000	6.6	20.0
Benzo[k]fluoranthene	Ave	1.217	1.144	0.7000	47000	50000	-6.0	20.0
Benzo[a]pyrene	Ave	1.023	1.065	0.7000	52100	50000	4.1	20.0
Indeno[1,2,3-cd]pyrene	Ave	0.8494	1.030	0.5000	60600	50000	21.3*	20.0
Dibenz(a,h)anthracene	Ave	0.8820	1.029	0.4000	58300	50000	16.7	20.0
Benzo[g,h,i]perylene	Ave	0.9481	1.011	0.5000	53300	50000	6.7	20.0
2-Fluorophenol (Surr)	Ave	1.349	1.369	0.0100	50700	50000	1.5	20.0
Phenol-d5 (Surr)	Ave	1.546	1.469	0.0100	47500	50000	-5.0	20.0
Nitrobenzene-d5 (Surr)	Ave	0.3891	0.3889	0.0100	50000	50000	-0.0	20.0
2-Fluorobiphenyl	Ave	1.569	1.577	0.0100	50300	50000	0.5	20.0
2,4,6-Tribromophenol (Surr)	QuaF		0.3000	0.0100	58000	50000	16.0	20.0
Terphenyl-d14 (Surr)	Ave	1.143	1.223	0.0100	53500	50000	7.0	20.0

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS5\20160427-40331.b\13331.D
 Lims ID: ccvis
 Client ID:
 Sample Type: CCVIS
 Inject. Date: 27-Apr-2016 04:36:30 ALS Bottle#: 2 Worklist Smp#: 2
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 460-0040331-002
 Misc. Info.: ccvis
 Operator ID: Instrument ID: CBNAMS5
 Sublist: chrom-8270_5R*sub37
 Method: \\ChromNA\Edison\ChromData\CBNAMS5\20160427-40331.b\8270_5R.m
 Limit Group: SV 8270D ICAL
 Last Update: 27-Apr-2016 13:32:58 Calib Date: 18-Apr-2016 15:17:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Edison\ChromData\CBNAMS5\20160418-39964.b\12973.D
 Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK049

First Level Reviewer: szczecha

Date: 27-Apr-2016 13:32:58

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	1.287	1.287	0.000	97	706178	50.0	48.6	
2 N-Nitrosodimethylamine	74	1.510	1.510	0.000	72	938977	50.0	49.8	
3 Pyridine	79	1.522	1.522	0.000	85	1609010	50.0	49.2	
\$ 4 2-Fluorophenol	112	2.598	2.598	0.000	95	1891750	50.0	50.7	
8 Aniline	93	3.522	3.522	0.000	98	2365835	50.0	49.6	
\$ 6 Phenol-d5	99	3.540	3.540	0.000	96	2029816	50.0	47.5	
7 Phenol	94	3.551	3.551	0.000	98	2117515	50.0	48.8	
9 Bis(2-chloroethyl)ether	93	3.610	3.610	0.000	97	1400875	50.0	44.5	
10 Benzonitrile	103	3.622	3.622	0.000	66	3014232	NC	NC	
11 2-Chlorophenol	128	3.651	3.651	0.000	97	1798311	50.0	49.1	
12 n-Decane	43	3.722	3.722	0.000	90	2004128	50.0	46.6	
13 1,3-Dichlorobenzene	146	3.792	3.792	0.000	96	2224331	50.0	48.7	
* 14 1,4-Dichlorobenzene-d4	152	3.851	3.851	0.000	96	1105636	40.0	40.0	
15 1,4-Dichlorobenzene	146	3.869	3.869	0.000	95	2171032	50.0	48.3	
16 Benzyl alcohol	108	4.022	4.022	0.000	89	1089918	50.0	50.0	
17 1,2-Dichlorobenzene	146	4.022	4.022	0.000	96	1982635	50.0	47.4	
18 2-Methylphenol	108	4.157	4.157	0.000	88	1462260	50.0	47.2	
19 2,2'-oxybis[1-chloropropan	45	4.157	4.157	0.000	89	2062187	50.0	45.1	
21 Acetophenone	105	4.287	4.287	0.000	97	1977673	50.0	49.4	
22 N-Nitrosodi-n-propylamine	70	4.304	4.304	0.000	95	959190	50.0	45.8	
24 4-Methylphenol	108	4.328	4.328	0.000	93	1502949	50.0	48.7	
23 3 & 4 Methylphenol	108	4.328	4.328	0.000	96	1502949	50.0	48.7	
20 N-Methylaniline	106	4.275	4.275	0.000	88	2439900	NC	NC	
25 Hexachloroethane	117	4.363	4.363	0.000	88	739340	50.0	45.6	
\$ 26 Nitrobenzene-d5	82	4.434	4.434	0.000	92	1741726	50.0	50.0	
28 Nitrobenzene	77	4.457	4.457	0.000	92	2040500	50.0	47.1	
27 n,n'-Dimethylaniline	120	4.457	4.457	0.000	93	2414791	50.0	46.5	
31 Isophorone	82	4.710	4.710	0.000	98	2514052	50.0	47.3	
32 2-Nitrophenol	139	4.769	4.769	0.000	89	904876	50.0	49.4	
33 2,4-Dimethylphenol	122	4.857	4.857	0.000	91	1396184	50.0	47.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
34 Bis(2-chloroethoxy)methane	93	4.939	4.939	0.000	100	1455558	50.0	46.9	
36 2,4-Dichlorophenol	162	5.028	5.028	0.000	96	1436712	50.0	48.5	
35 Benzoic acid	122	5.045	5.045	0.000	93	791572	50.0	53.3	M
37 1,2,4-Trichlorobenzene	180	5.098	5.098	0.000	94	1674995	50.0	48.4	
* 38 Naphthalene-d8	136	5.145	5.145	0.000	99	3583107	40.0	40.0	
39 Naphthalene	128	5.169	5.169	0.000	100	4453360	50.0	48.0	
40 4-Chloroaniline	127	5.245	5.245	0.000	97	1699318	50.0	48.4	
41 Hexachlorobutadiene	225	5.310	5.310	0.000	97	1144745	50.0	50.2	
43 4-Chloro-3-methylphenol	107	5.757	5.757	0.000	97	1138085	50.0	48.3	
44 2-Methylnaphthalene	142	5.869	5.869	0.000	87	3035639	50.0	48.2	
45 1-Methylnaphthalene	142	5.963	5.963	0.000	93	2578256	50.0	47.9	
46 Hexachlorocyclopentadiene	237	6.033	6.033	0.000	97	1086647	50.0	53.4	
47 1,2,4,5-Tetrachlorobenzene	216	6.039	6.039	0.000	98	1540916	50.0	50.1	
48 2-tertbutyl-4-methylphenol	149	6.110	6.110	0.000	91	1997568	50.0	49.1	
49 2,4,6-Trichlorophenol	196	6.163	6.163	0.000	92	924185	50.0	51.6	
50 2,4,5-Trichlorophenol	196	6.198	6.198	0.000	97	937685	50.0	49.6	
\$ 51 2-Fluorobiphenyl	172	6.245	6.245	0.000	98	3530146	50.0	50.3	
52 1,1'-Biphenyl	154	6.339	6.339	0.000	95	3375985	50.0	48.1	
53 2-Chloronaphthalene	162	6.351	6.351	0.000	99	2610053	50.0	48.5	
54 Phenyl ether	170	6.445	6.445	0.000	84	1944889	50.0	50.0	
56 2-Nitroaniline	65	6.469	6.469	0.000	95	797457	50.0	50.5	
57 1,3-Dimethylnaphthalene	156	6.569	6.569	0.000	93	2175398	50.0	49.7	
59 Coumarin	146	6.663	6.663	0.000	78	800216	50.0	50.1	
58 Dimethyl phthalate	163	6.669	6.669	0.000	99	2402986	50.0	48.1	
60 2,6-Dinitrotoluene	165	6.716	6.716	0.000	94	578211	50.0	49.2	
61 Acenaphthylene	152	6.751	6.751	0.000	97	3662703	50.0	48.3	
64 3-Nitroaniline	138	6.875	6.875	0.000	95	582250	50.0	48.5	
* 65 Acenaphthene-d10	164	6.892	6.892	0.000	91	1790971	40.0	40.0	
67 Acenaphthene	154	6.928	6.928	0.000	93	2357126	50.0	50.8	
66 3,5-di-tert-butyl-4-hydrox	205	6.951	6.951	0.000	95	2864900	50.0	51.8	
68 2,4-Dinitrophenol	184	6.992	6.992	0.000	95	691901	100.0	103.5	
69 4-Nitrophenol	65	7.086	7.086	0.000	88	734654	100.0	103.8	
71 Dibenzofuran	168	7.098	7.098	0.000	98	3420873	50.0	49.0	
70 2,4-Dinitrotoluene	165	7.110	7.110	0.000	95	685273	50.0	51.0	
72 2,3,4,6-Tetrachlorophenol	232	7.233	7.233	0.000	98	722403	50.0	51.9	
73 Diethyl phthalate	149	7.363	7.363	0.000	99	2229078	50.0	48.5	
87 n-Octadecane	57	7.392	7.392	0.000	97	1538981	50.0	52.3	
75 Fluorene	166	7.433	7.433	0.000	96	2567056	50.0	50.0	
74 4-Chlorophenyl phenyl ethe	204	7.445	7.445	0.000	92	1375158	50.0	50.1	
76 4-Nitroaniline	138	7.480	7.480	0.000	85	494096	50.0	50.6	
77 4,6-Dinitro-2-methylphenol	198	7.522	7.522	0.000	90	844964	100.0	101.1	
78 N-Nitrosodiphenylamine	169	7.569	7.569	0.000	65	3550092	100.0	96.1	
79 1,2-Diphenylhydrazine	77	7.598	7.598	0.000	96	1928275	50.0	47.0	
\$ 80 2,4,6-Tribromophenol	330	7.669	7.669	0.000	91	671640	50.0	58.0	
81 4-Bromophenyl phenyl ether	248	7.916	7.916	0.000	94	824604	50.0	49.9	
83 Hexachlorobenzene	284	7.975	7.975	0.000	93	1040311	50.0	53.9	
85 Pentachlorophenol	266	8.175	8.175	0.000	95	1079097	100.0	103.2	
86 Pentachloronitrobenzene	237	8.186	8.186	0.000	91	377839	50.0	55.1	
* 88 Phenanthrene-d10	188	8.339	8.339	0.000	97	2386863	40.0	40.0	
89 Phenanthrene	178	8.363	8.363	0.000	96	3190236	50.0	48.5	
90 Anthracene	178	8.410	8.410	0.000	99	3244975	50.0	49.4	
91 Carbazole	167	8.580	8.580	0.000	96	2494943	50.0	48.6	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
92 Di-n-butyl phthalate	149	8.951	8.951	0.000	100	2900148	50.0	47.4	
93 Fluoranthene	202	9.516	9.516	0.000	99	2791874	50.0	48.6	
94 Benzidine	184	9.669	9.669	0.000	99	1298413	50.0	48.6	
95 Pyrene	202	9.733	9.733	0.000	98	2741075	50.0	49.6	
82 Bisphenol-A	213	9.816	9.816	0.000	99	1043068	50.0	55.2	
\$ 96 Terphenyl-d14	244	9.910	9.910	0.000	98	2237877	50.0	53.5	
97 Butyl benzyl phthalate	149	10.404	10.404	0.000	96	952744	50.0	49.0	
98 2,3,7,8-TCDD	320	10.480	10.480	0.000	91	3981	0.5000	0.5681	
99 Carbamazepine	193	10.492	10.492	0.000	91	841117	50.0	59.7	
100 3,3'-Dichlorobenzidine	252	10.933	10.933	0.000	98	833534	50.0	54.1	
101 Benzo[a]anthracene	228	10.939	10.939	0.000	96	2218362	50.0	51.2	
* 102 Chrysene-d12	240	10.951	10.951	0.000	98	1463712	40.0	40.0	
103 Chrysene	228	10.980	10.980	0.000	99	1881823	50.0	49.1	
104 Bis(2-ethylhexyl) phthalat	149	11.033	11.033	0.000	87	1247428	50.0	47.1	
105 Di-n-octyl phthalate	149	11.798	11.798	0.000	97	1968161	50.0	46.6	
106 Benzo[b]fluoranthene	252	12.198	12.198	0.000	97	1876127	50.0	53.3	
107 Benzo[k]fluoranthene	252	12.233	12.233	0.000	97	1773881	50.0	47.0	
108 Benzo[a]pyrene	252	12.598	12.598	0.000	98	1650861	50.0	52.1	
* 109 Perylene-d12	264	12.668	12.668	0.000	99	1240001	40.0	40.0	
110 Indeno[1,2,3-cd]pyrene	276	14.027	14.027	0.000	97	1596928	50.0	60.6	
111 Dibenz(a,h)anthracene	278	14.062	14.062	0.000	100	1595468	50.0	58.3	
112 Benzo[g,h,i]perylene	276	14.356	14.356	0.000	96	1567463	50.0	53.3	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

SV_IC_BNA_L6_00018

Amount Added: 1.00

Units: mL

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CBNAMS5\\20160427-40331.b\\x13331.D

Injection Date: 27-Apr-2016 04:36:30

Instrument ID: CBNAMS5

Operator ID:

Lims ID: ccvis

Worklist Smp#: 2

Client ID:

Injection Vol: 1.0 ul

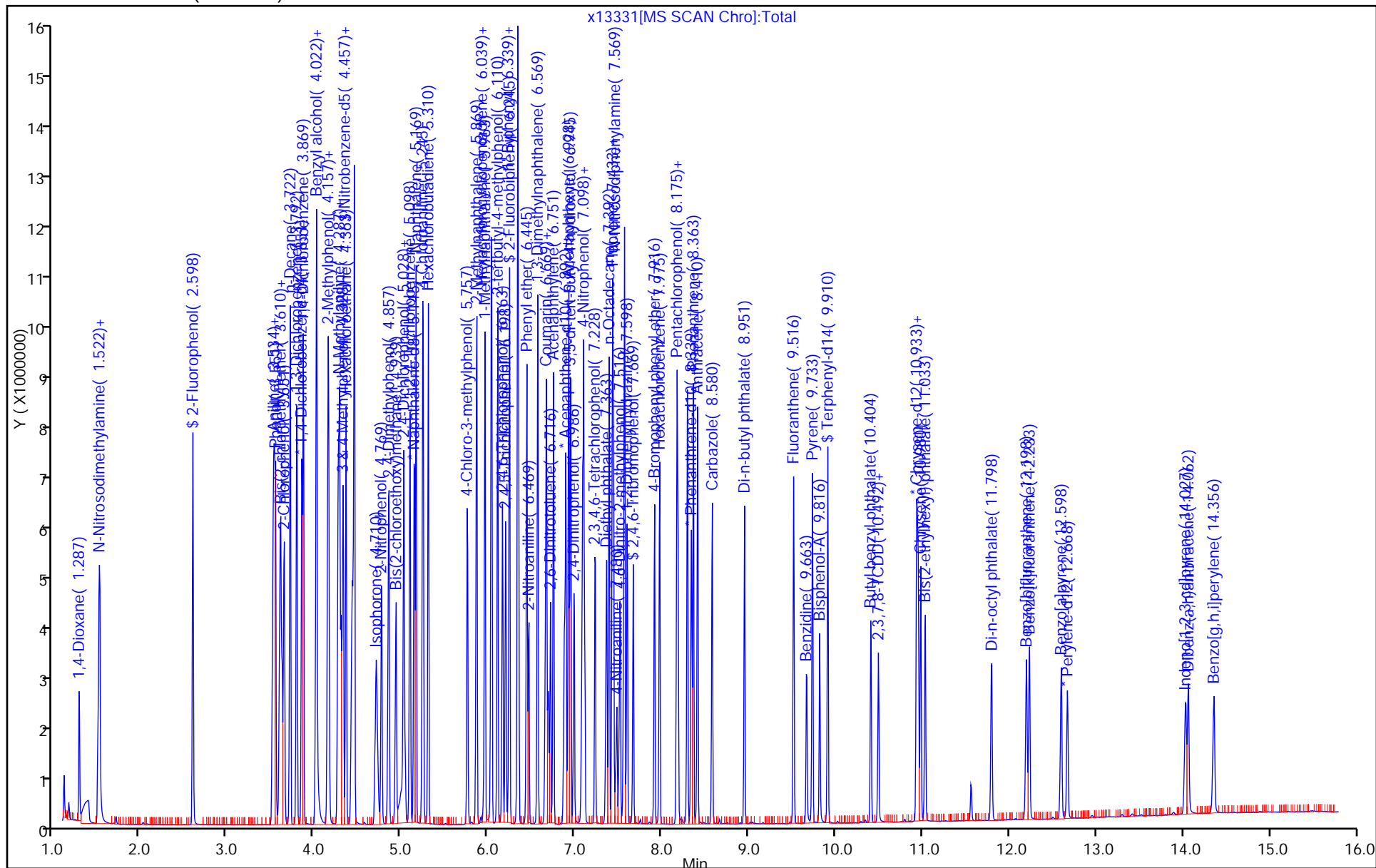
Dil. Factor: 1.0000

ALS Bottle#: 2

Method: 8270_5R

Limit Group: SV 8270D ICAL

Column: Rtxi-5Sil MS (0.25 mm)



TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS5\20160427-40331.b\13331.D
Injection Date: 27-Apr-2016 04:36:30 Instrument ID: CBNAMS5
Lims ID: ccvis
Client ID:
Operator ID:
Injection Vol: 1.0 ul
Method: 8270_5R
Column: Rtxi-5Sil MS (0.25 mm)

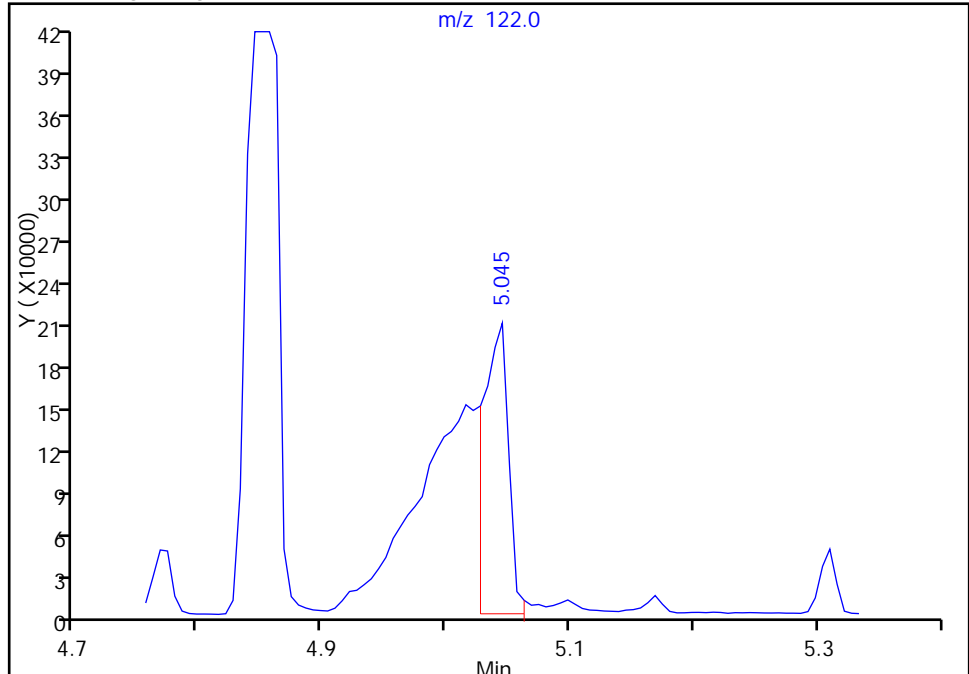
ALS Bottle#: 2 Worklist Smp#: 2
Dil. Factor: 1.0000
Limit Group: SV 8270D ICAL
Detector: MS SCAN

35 Benzoic acid, CAS: 65-85-0

Signal: 1

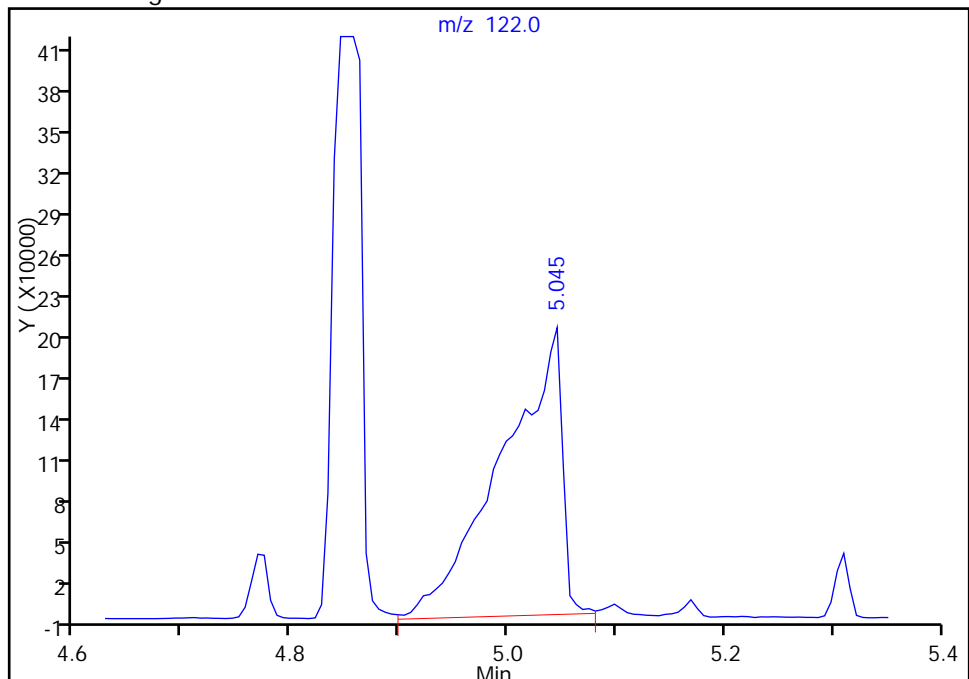
RT: 5.05
Area: 295674
Amount: 21.647513
Amount Units: ug/ml

Processing Integration Results



RT: 5.05
Area: 791572
Amount: 53.267125
Amount Units: ug/ml

Manual Integration Results



Reviewer: manlangitf, 27-Apr-2016 05:09:51
Audit Action: Manually Integrated

Audit Reason: Baseline

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-112518-1
SDG No.: _____
Lab Sample ID: CCV 460-364897/3 Calibration Date: 04/27/2016 05:13
Instrument ID: CBNAMS5 Calib Start Date: 04/11/2016 17:25
GC Column: Rtxi-5Sil MS ID: 0.25 (mm) Calib End Date: 04/11/2016 19:51
Lab File ID: x13332.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Benzaldehyde	Ave	1.112	0.9549	0.0100	42900	50000	-14.1	20.0
Caprolactam	Ave	0.0769	0.0833	0.0100	54200	50000	8.3	20.0
Atrazine	Ave	0.2042	0.2081	0.0100	50900	50000	1.9	20.0

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS5\20160427-40331.b\13332.D
 Lims ID: ccv
 Client ID:
 Sample Type: CCV
 Inject. Date: 27-Apr-2016 05:13:30 ALS Bottle#: 3 Worklist Smp#: 3
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 460-0040331-003
 Operator ID: Instrument ID: CBNAMS5
 Sublist: chrom-8270_5R*sub34
 Method: \\ChromNA\Edison\ChromData\CBNAMS5\20160427-40331.b\8270_5R.m
 Limit Group: SV 8270D ICAL
 Last Update: 27-Apr-2016 13:33:25 Calib Date: 18-Apr-2016 15:17:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS5\20160418-39964.b\12973.D
 Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK049

First Level Reviewer: szczecha

Date: 27-Apr-2016 13:33:25

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
5 Benzaldehyde	77	3.399	3.399	0.000	90	1430984	50.0	42.9	
* 14 1,4-Dichlorobenzene-d4	152	3.846	3.846	0.000	96	1198835	40.0	40.0	
* 38 Naphthalene-d8	136	5.140	5.140	0.000	99	4099337	40.0	40.0	
42 Caprolactam	113	5.587	5.587	0.000	89	426576	50.0	54.2	
* 65 Acenaphthene-d10	164	6.887	6.887	0.000	90	2211303	40.0	40.0	
84 Atrazine	200	8.110	8.110	0.000	95	804129	50.0	50.9	
* 88 Phenanthrene-d10	188	8.334	8.334	0.000	97	3091419	40.0	40.0	
* 102 Chrysene-d12	240	10.951	10.951	0.000	98	2015577	40.0	40.0	
* 109 Perylene-d12	264	12.669	12.669	0.000	99	1544898	40.0	40.0	

Reagents:

SV_IC-S_L6_00019

Amount Added: 1.00

Units: mL

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CBNAMS5\\20160427-40331.b\\x13332.D

Injection Date: 27-Apr-2016 05:13:30

Instrument ID: CBNAMS5

Operator ID:

Lims ID: ccv

Worklist Smp#: 3

Client ID:

Injection Vol: 1.0 ul

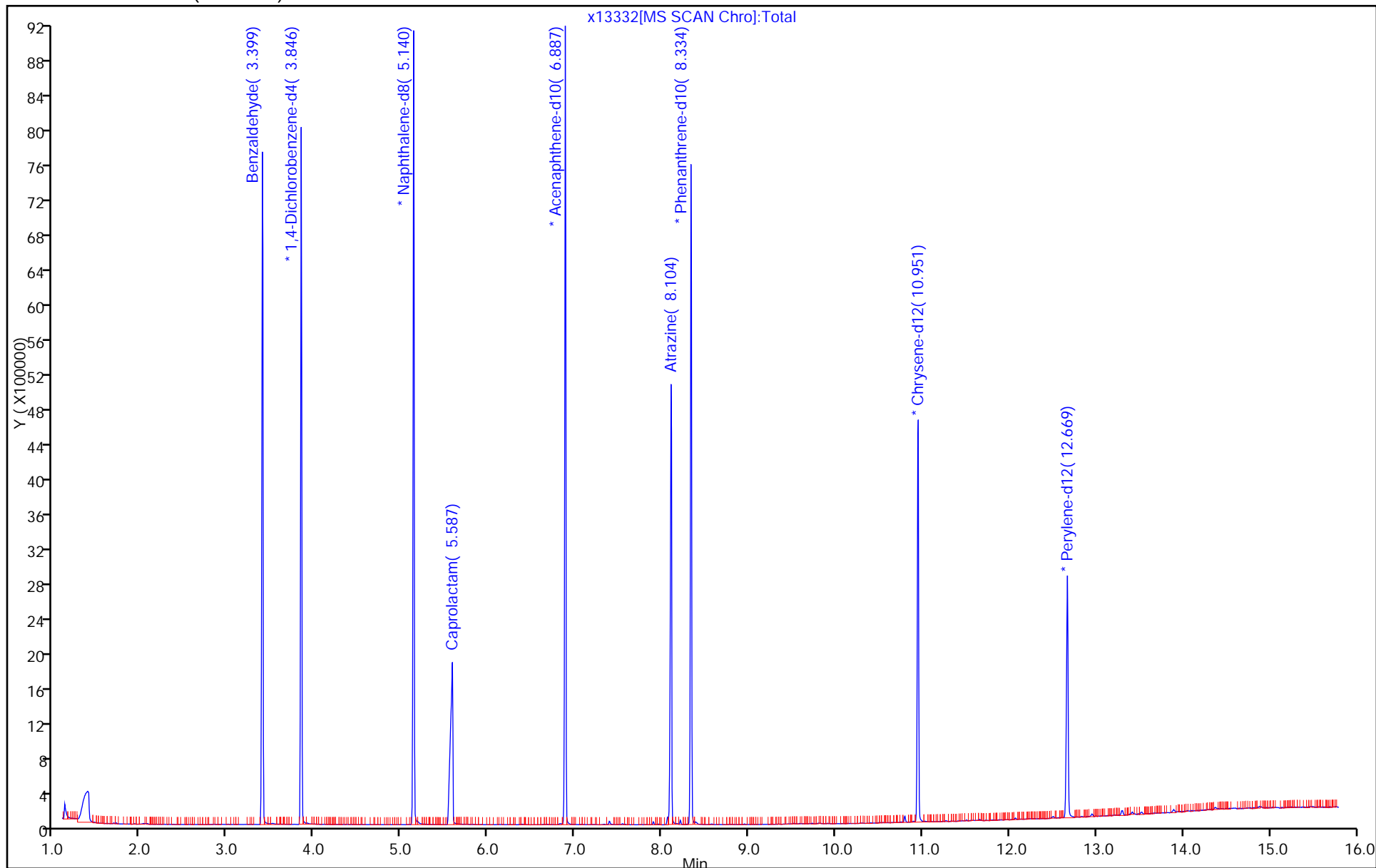
Dil. Factor: 1.0000

ALS Bottle#: 3

Method: 8270_5R

Limit Group: SV 8270D ICAL

Column: Rtxi-5Sil MS (0.25 mm)



FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-112518-1

SDG No.: _____

Lab Sample ID: CCVIS 460-365067/2 Calibration Date: 04/27/2016 17:29

Instrument ID: CBNAMS5 Calib Start Date: 04/18/2016 11:44

GC Column: Rtxi-5Sil MS ID: 0.25 (mm) Calib End Date: 04/18/2016 15:17

Lab File ID: x13362.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.5253	0.5055	0.0100	48100	50000	-3.8	20.0
N-Nitrosodimethylamine	Ave	0.6822	0.6549		48000	50000	-4.0	20.0
Pyridine	Ave	1.184	1.121		47300	50000	-5.4	20.0
Aniline	Ave	1.726	1.651		47800	50000	-4.4	20.0
Phenol	Ave	1.569	1.504	0.8000	47900	50000	-4.1	20.0
Bis(2-chloroethyl)ether	Ave	1.138	0.9925	0.7000	43600	50000	-12.8	20.0
2-Chlorophenol	Ave	1.324	1.271	0.8000	48000	50000	-4.0	20.0
n-Decane	Ave	1.556	1.400	0.0100	45000	50000	-10.0	20.0
1,3-Dichlorobenzene	Ave	1.654	1.607		48600	50000	-2.9	20.0
1,4-Dichlorobenzene	Ave	1.628	1.595		49000	50000	-2.0	20.0
1,2-Dichlorobenzene	Ave	1.512	1.448		47900	50000	-4.2	20.0
Benzyl alcohol	Ave	0.7884	0.7689	0.0100	48800	50000	-2.5	20.0
2,2'-oxybis[1-chloropropane]	Ave	1.653	1.421	0.0100	43000	50000	-14.0	20.0
2-Methylphenol	Ave	1.121	1.037	0.7000	46300	50000	-7.4	20.0
Acetophenone	Ave	1.450	1.410	0.0100	48600	50000	-2.7	20.0
N-Nitrosodi-n-propylamine	Ave	0.7572	0.6613	0.5000	43700	50000	-12.7	20.0
3 & 4 Methylphenol	Ave	1.117	1.068		47800	50000	-4.4	20.0
4-Methylphenol	Ave	1.117	1.068	0.6000	47800	50000	-4.4	20.0
Hexachloroethane	Ave	0.5868	0.5367	0.3000	45700	50000	-8.5	20.0
n,n'-Dimethylaniline	Ave	1.880	1.780	0.0100	47300	50000	-5.3	20.0
Nitrobenzene	Ave	0.4837	0.4549	0.2000	47000	50000	-5.9	20.0
Isophorone	Ave	0.5932	0.5268	0.4000	44400	50000	-11.2	20.0
2-Nitrophenol	Ave	0.2046	0.1974	0.1000	48200	50000	-3.5	20.0
2,4-Dimethylphenol	Ave	0.3285	0.3125	0.2000	47600	50000	-4.9	20.0
Bis(2-chloroethoxy)methane	Ave	0.3466	0.3169	0.3000	45700	50000	-8.6	20.0
2,4-Dichlorophenol	Ave	0.3304	0.3223	0.2000	48800	50000	-2.4	20.0
Benzoic acid	Lin2		0.1585		48000	50000	-3.9	20.0
1,2,4-Trichlorobenzene	Ave	0.3863	0.3744		48500	50000	-3.1	20.0
Naphthalene	Ave	1.036	0.9875	0.7000	47700	50000	-4.7	20.0
4-Chloroaniline	Ave	0.3920	0.3820	0.0100	48700	50000	-2.6	20.0
Hexachlorobutadiene	Ave	0.2545	0.2601	0.0100	51100	50000	2.2	20.0
4-Chloro-3-methylphenol	Ave	0.2628	0.2485		47300	50000	-5.4	20.0
2-Methylnaphthalene	Ave	0.7025	0.6890	0.4000	49000	50000	-1.9	20.0
1-Methylnaphthalene	Ave	0.6011	0.5770	0.0100	48000	50000	-4.0	20.0
Hexachlorocyclopentadiene	Ave	0.4545	0.4862	0.0500	53500	50000	7.0	20.0
1,2,4,5-Tetrachlorobenzene	Ave	0.6876	0.7010	0.0100	51000	50000	2.0	20.0
2-tertbutyl-4-methylphenol	Ave	0.4539	0.4589	0.0100	50600	50000	1.1	20.0
2,4,6-Trichlorophenol	Ave	0.3997	0.4187	0.2000	52400	50000	4.8	20.0
2,4,5-Trichlorophenol	Ave	0.4220	0.4268	0.2000	50600	50000	1.1	20.0
1,1'-Biphenyl	Ave	1.568	1.514	0.0100	48300	50000	-3.4	20.0
2-Chloronaphthalene	Ave	1.203	1.175	0.8000	48800	50000	-2.3	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-112518-1

SDG No.: _____

Lab Sample ID: CCVIS 460-365067/2 Calibration Date: 04/27/2016 17:29

Instrument ID: CBNAMS5 Calib Start Date: 04/18/2016 11:44

GC Column: Rtxi-5Sil MS ID: 0.25 (mm) Calib End Date: 04/18/2016 15:17

Lab File ID: x13362.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Phenyl ether	Ave	0.8690	0.8822	0.0100	50800	50000	1.5	20.0
2-Nitroaniline	Ave	0.3528	0.3364	0.0100	47700	50000	-4.6	20.0
1,3-Dimethylnaphthalene	Ave	0.9773	0.9859	0.0100	50400	50000	0.9	20.0
Coumarin	Ave	0.1781	0.1766	0.0100	49600	50000	-0.9	20.0
Dimethyl phthalate	Ave	1.117	1.077	0.0100	48200	50000	-3.6	20.0
2,6-Dinitrotoluene	Ave	0.2624	0.2482	0.2000	47300	50000	-5.4	20.0
Acenaphthylene	Ave	1.694	1.623	0.9000	47900	50000	-4.1	20.0
3-Nitroaniline	Ave	0.2684	0.2514	0.0100	46800	50000	-6.3	20.0
Acenaphthene	Ave	1.036	1.051	0.9000	50700	50000	1.5	20.0
3,5-di-tert-butyl-4-hydroxytol	Ave	1.236	1.343	0.0100	54300	50000	8.7	20.0
2,4-Dinitrophenol	Lin2		0.1570	0.0100	105000	100000	5.2	20.0
4-Nitrophenol	Ave	0.1581	0.1563	0.0100	98800	100000	-1.2	20.0
Dibenzofuran	Ave	1.559	1.557	0.8000	49900	50000	-0.2	20.0
2,4-Dinitrotoluene	Ave	0.3000	0.3024	0.2000	50400	50000	0.8	20.0
2,3,4,6-Tetrachlorophenol	Ave	0.3108	0.3281	0.0100	52800	50000	5.6	20.0
Diethyl phthalate	Ave	1.025	1.001	0.0100	48800	50000	-2.4	20.0
n-Octadecane	Ave	0.4930	0.5145	0.0100	52200	50000	4.4	20.0
Fluorene	Ave	1.147	1.156	0.9000	50400	50000	0.8	20.0
4-Chlorophenyl phenyl ether	Ave	0.6125	0.6336	0.4000	51700	50000	3.5	20.0
4-Nitroaniline	Ave	0.2180	0.2081	0.0100	47700	50000	-4.5	20.0
4,6-Dinitro-2-methylphenol	Lin2		0.1427	0.0100	102000	100000	1.9	20.0
N-Nitrosodiphenylamine	Ave	0.6191	0.6148	0.0100	99300	100000	-0.7	20.0
1,2-Diphenylhydrazine	Ave	0.6881	0.6432	0.0100	46700	50000	-6.5	20.0
4-Bromophenyl phenyl ether	Ave	0.2769	0.2878	0.1000	52000	50000	3.9	20.0
Hexachlorobenzene	Ave	0.3233	0.3708	0.1000	57400	50000	14.7	20.0
Pentachlorophenol	Lin2		0.1827	0.0500	104000	100000	4.2	20.0
Pentachloronitrobenzene	Ave	0.1148	0.1320	0.0100	57500	50000	14.9	20.0
Phenanthrene	Ave	1.101	1.094	0.7000	49700	50000	-0.7	20.0
Anthracene	Ave	1.101	1.118	0.7000	50800	50000	1.6	20.0
Carbazole	Ave	0.8603	0.8359	0.0100	48600	50000	-2.8	20.0
Di-n-butyl phthalate	Ave	1.026	1.008	0.0100	49200	50000	-1.7	20.0
Fluoranthene	Ave	0.9630	0.9335	0.6000	48500	50000	-3.1	20.0
Benzidine	Ave	0.4475	0.4314		48200	50000	-3.6	20.0
Pyrene	Ave	1.510	1.468	0.6000	48600	50000	-2.8	20.0
Bisphenol-A	Ave	0.5160	0.5593		54200	50000	8.4	20.0
Butyl benzyl phthalate	Ave	0.5314	0.5066	0.0100	47700	50000	-4.7	20.0
2,3,7,8-TCDD	Ave	0.1915	0.2310	0.0100	603	500	20.6*	20.0
Carbamazepine	Qua		0.4318	0.0100	56700	50000	13.3	20.0
3,3'-Dichlorobenzidine	Ave	0.4209	0.4494	0.0100	53400	50000	6.8	20.0
Benzo[a]anthracene	Ave	1.184	1.153	0.8000	48700	50000	-2.6	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-112518-1
 SDG No.: _____
 Lab Sample ID: CCVIS 460-365067/2 Calibration Date: 04/27/2016 17:29
 Instrument ID: CBNAMS5 Calib Start Date: 04/18/2016 11:44
 GC Column: Rtxi-5Sil MS ID: 0.25 (mm) Calib End Date: 04/18/2016 15:17
 Lab File ID: x13362.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chrysene	Ave	1.048	1.020	0.7000	48700	50000	-2.7	20.0
Bis(2-ethylhexyl) phthalate	Ave	0.7240	0.6904	0.0100	47700	50000	-4.7	20.0
Di-n-octyl phthalate	Ave	1.361	1.247	0.0100	45800	50000	-8.4	20.0
Benzo[b]fluoranthene	Ave	1.135	1.184	0.7000	52100	50000	4.3	20.0
Benzo[k]fluoranthene	Ave	1.217	1.139	0.7000	46800	50000	-6.4	20.0
Benzo[a]pyrene	Ave	1.023	1.072	0.7000	52400	50000	4.8	20.0
Indeno[1,2,3-cd]pyrene	Ave	0.8494	1.073	0.5000	63100	50000	26.3*	20.0
Dibenz(a,h)anthracene	Ave	0.8820	1.051	0.4000	59600	50000	19.1	20.0
Benzo[g,h,i]perylene	Ave	0.9481	1.040	0.5000	54900	50000	9.7	20.0
2-Fluorophenol (Surr)	Ave	1.349	1.328	0.0100	49200	50000	-1.6	20.0
Phenol-d5 (Surr)	Ave	1.546	1.427	0.0100	46200	50000	-7.7	20.0
Nitrobenzene-d5 (Surr)	Ave	0.3891	0.3734	0.0100	48000	50000	-4.0	20.0
2-Fluorobiphenyl	Ave	1.569	1.584	0.0100	50500	50000	1.0	20.0
2,4,6-Tribromophenol (Surr)	QuaF		0.3075	0.0100	59100	50000	18.2	20.0
Terphenyl-d14 (Surr)	Ave	1.143	1.236	0.0100	54100	50000	8.2	20.0

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS5\20160427-40365.b\13362.D
 Lims ID: ccvis
 Client ID:
 Sample Type: CCVIS
 Inject. Date: 27-Apr-2016 17:29:30 ALS Bottle#: 2 Worklist Smp#: 2
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 460-0040365-002
 Misc. Info.: ccvis
 Operator ID: Instrument ID: CBNAMS5
 Sublist: chrom-8270_5R*sub37
 Method: \\ChromNA\Edison\ChromData\CBNAMS5\20160427-40365.b\8270_5R.m
 Limit Group: SV 8270D ICAL
 Last Update: 28-Apr-2016 14:01:43 Calib Date: 18-Apr-2016 15:17:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Edison\ChromData\CBNAMS5\20160418-39964.b\12973.D
 Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK029

First Level Reviewer: szczecha

Date: 28-Apr-2016 14:01:41

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	1.275	1.275	0.000	96	627713	50.0	48.1	
2 N-Nitrosodimethylamine	74	1.493	1.493	0.000	72	813253	50.0	48.0	
3 Pyridine	79	1.504	1.504	0.000	84	1391751	50.0	47.3	
\$ 4 2-Fluorophenol	112	2.581	2.581	0.000	95	1649193	50.0	49.2	
8 Aniline	93	3.504	3.504	0.000	98	2050138	50.0	47.8	
\$ 6 Phenol-d5	99	3.516	3.516	0.000	94	1772524	50.0	46.2	
7 Phenol	94	3.528	3.528	0.000	98	1867852	50.0	47.9	
9 Bis(2-chloroethyl)ether	93	3.587	3.587	0.000	98	1232461	50.0	43.6	
10 Benzonitrile	103	3.598	3.598	0.000	67	2637855	NC	NC	
11 2-Chlorophenol	128	3.628	3.628	0.000	96	1578087	50.0	48.0	
12 n-Decane	43	3.698	3.698	0.000	90	1738771	50.0	45.0	
13 1,3-Dichlorobenzene	146	3.775	3.775	0.000	96	1995190	50.0	48.6	
* 14 1,4-Dichlorobenzene-d4	152	3.834	3.834	0.000	96	993449	40.0	40.0	
15 1,4-Dichlorobenzene	146	3.851	3.851	0.000	95	1980326	50.0	49.0	
16 Benzyl alcohol	108	4.004	4.004	0.000	56	954782	50.0	48.8	
17 1,2-Dichlorobenzene	146	4.004	4.004	0.000	95	1798529	50.0	47.9	
18 2-Methylphenol	108	4.140	4.140	0.000	87	1288300	50.0	46.3	
19 2,2'-oxybis[1-chloropropan	45	4.140	4.140	0.000	89	1765164	50.0	43.0	
20 N-Methylaniline	106	4.251	4.251	0.000	83	2153543	NC	NC	
21 Acetophenone	105	4.269	4.269	0.000	96	1751192	50.0	48.6	
22 N-Nitrosodi-n-propylamine	70	4.287	4.287	0.000	94	821246	50.0	43.7	
23 3 & 4 Methylphenol	108	4.310	4.310	0.000	95	1325930	50.0	47.8	
24 4-Methylphenol	108	4.310	4.310	0.000	91	1325930	50.0	47.8	
25 Hexachloroethane	117	4.340	4.340	0.000	87	666444	50.0	45.7	
\$ 26 Nitrobenzene-d5	82	4.410	4.410	0.000	92	1517442	50.0	48.0	
28 Nitrobenzene	77	4.440	4.440	0.000	92	1848881	50.0	47.0	
27 n,n'-Dimethylaniline	120	4.440	4.440	0.000	93	2209848	50.0	47.3	
31 Isophorone	82	4.692	4.692	0.000	97	2140869	50.0	44.4	
32 2-Nitrophenol	139	4.751	4.751	0.000	89	802325	50.0	48.2	
33 2,4-Dimethylphenol	122	4.834	4.834	0.000	91	1269983	50.0	47.6	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
34 Bis(2-chloroethoxy)methane	93	4.922	4.922	0.000	99	1287848	50.0	45.7	
36 2,4-Dichlorophenol	162	5.010	5.010	0.000	96	1310065	50.0	48.8	
35 Benzoic acid	122	5.028	5.028	0.000	92	644032	50.0	48.0	M
37 1,2,4-Trichlorobenzene	180	5.081	5.081	0.000	94	1521664	50.0	48.5	
* 38 Naphthalene-d8	136	5.128	5.128	0.000	99	3251458	40.0	40.0	
39 Naphthalene	128	5.151	5.151	0.000	100	4013666	50.0	47.7	
40 4-Chloroaniline	127	5.228	5.228	0.000	97	1552523	50.0	48.7	
41 Hexachlorobutadiene	225	5.292	5.292	0.000	97	1057254	50.0	51.1	
43 4-Chloro-3-methylphenol	107	5.739	5.739	0.000	96	1010121	50.0	47.3	
44 2-Methylnaphthalene	142	5.851	5.851	0.000	92	2800304	50.0	49.0	
45 1-Methylnaphthalene	142	5.945	5.945	0.000	93	2345124	50.0	48.0	
46 Hexachlorocyclopentadiene	237	6.016	6.016	0.000	97	1003661	50.0	53.5	
47 1,2,4,5-Tetrachlorobenzene	216	6.022	6.022	0.000	98	1447130	50.0	51.0	
48 2-tertbutyl-4-methylphenol	149	6.092	6.092	0.000	92	1865073	50.0	50.6	
49 2,4,6-Trichlorophenol	196	6.145	6.145	0.000	93	864396	50.0	52.4	
50 2,4,5-Trichlorophenol	196	6.181	6.181	0.000	98	881068	50.0	50.6	
\$ 51 2-Fluorobiphenyl	172	6.228	6.228	0.000	98	3269463	50.0	50.5	
52 1,1'-Biphenyl	154	6.322	6.322	0.000	95	3125977	50.0	48.3	
53 2-Chloronaphthalene	162	6.328	6.328	0.000	98	2425686	50.0	48.8	
54 Phenyl ether	170	6.428	6.428	0.000	84	1821156	50.0	50.8	
56 2-Nitroaniline	65	6.451	6.451	0.000	94	694511	50.0	47.7	
57 1,3-Dimethylnaphthalene	156	6.551	6.551	0.000	94	2035229	50.0	50.4	
59 Coumarin	146	6.645	6.645	0.000	78	717697	50.0	49.6	
58 Dimethyl phthalate	163	6.651	6.651	0.000	99	2223197	50.0	48.2	
60 2,6-Dinitrotoluene	165	6.698	6.698	0.000	94	512464	50.0	47.3	
61 Acenaphthylene	152	6.734	6.734	0.000	97	3351300	50.0	47.9	
64 3-Nitroaniline	138	6.857	6.857	0.000	95	519056	50.0	46.8	
* 65 Acenaphthene-d10	164	6.875	6.875	0.000	90	1651536	40.0	40.0	
67 Acenaphthene	154	6.904	6.904	0.000	93	2169370	50.0	50.7	
66 3,5-di-tert-butyl-4-hydrox	205	6.933	6.933	0.000	96	2773010	50.0	54.3	
68 2,4-Dinitrophenol	184	6.969	6.969	0.000	94	648222	100.0	105.2	
69 4-Nitrophenol	65	7.069	7.069	0.000	88	645112	100.0	98.8	
71 Dibenzofuran	168	7.081	7.081	0.000	98	3213304	50.0	49.9	
70 2,4-Dinitrotoluene	165	7.092	7.092	0.000	96	624240	50.0	50.4	
72 2,3,4,6-Tetrachlorophenol	232	7.216	7.216	0.000	98	677237	50.0	52.8	
73 Diethyl phthalate	149	7.345	7.345	0.000	99	2067137	50.0	48.8	
87 n-Octadecane	57	7.375	7.375	0.000	97	1395717	50.0	52.2	
75 Fluorene	166	7.410	7.410	0.000	95	2386883	50.0	50.4	
74 4-Chlorophenyl phenyl ethe	204	7.428	7.428	0.000	94	1308059	50.0	51.7	
76 4-Nitroaniline	138	7.463	7.463	0.000	84	429528	50.0	47.7	
77 4,6-Dinitro-2-methylphenol	198	7.504	7.504	0.000	90	774337	100.0	101.9	
78 N-Nitrosodiphenylamine	169	7.551	7.551	0.000	72	3335225	100.0	99.3	
79 1,2-Diphenylhydrazine	77	7.581	7.581	0.000	96	1744694	50.0	46.7	
\$ 80 2,4,6-Tribromophenol	330	7.651	7.651	0.000	90	634864	50.0	59.1	
81 4-Bromophenyl phenyl ether	248	7.898	7.898	0.000	94	780574	50.0	52.0	
83 Hexachlorobenzene	284	7.957	7.957	0.000	93	1005959	50.0	57.4	
85 Pentachlorophenol	266	8.157	8.157	0.000	95	991388	100.0	104.2	
86 Pentachloronitrobenzene	237	8.169	8.169	0.000	92	358021	50.0	57.5	
* 88 Phenanthrene-d10	188	8.322	8.322	0.000	97	2170112	40.0	40.0	
89 Phenanthrene	178	8.345	8.345	0.000	96	2966394	50.0	49.7	
90 Anthracene	178	8.392	8.392	0.000	99	3032691	50.0	50.8	
91 Carbazole	167	8.563	8.563	0.000	96	2267388	50.0	48.6	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
92 Di-n-butyl phthalate	149	8.933	8.933	0.000	100	2735493	50.0	49.2	
93 Fluoranthene	202	9.498	9.498	0.000	98	2532133	50.0	48.5	
94 Benzidine	184	9.645	9.645	0.000	99	1170114	50.0	48.2	
95 Pyrene	202	9.716	9.716	0.000	98	2536833	50.0	48.6	
82 Bisphenol-A	213	9.798	9.798	0.000	99	966559	50.0	54.2	
\$ 96 Terphenyl-d14	244	9.892	9.892	0.000	98	2136342	50.0	54.1	
97 Butyl benzyl phthalate	149	10.392	10.392	0.000	95	875471	50.0	47.7	
98 2,3,7,8-TCDD	320	10.463	10.463	0.000	89	3992	0.5000	0.6031	
99 Carbamazepine	193	10.474	10.474	0.000	90	746195	50.0	56.7	
100 3,3'-Dichlorobenzidine	252	10.916	10.916	0.000	98	776677	50.0	53.4	
101 Benzo[a]anthracene	228	10.921	10.921	0.000	96	1993266	50.0	48.7	
* 102 Chrysene-d12	240	10.933	10.933	0.000	98	1382628	40.0	40.0	
103 Chrysene	228	10.963	10.963	0.000	100	1762846	50.0	48.7	
104 Bis(2-ethylhexyl) phthalat	149	11.016	11.016	0.000	87	1193145	50.0	47.7	
105 Di-n-octyl phthalate	149	11.774	11.774	0.000	97	1829760	50.0	45.8	
106 Benzo[b]fluoranthene	252	12.174	12.174	0.000	97	1736869	50.0	52.1	
107 Benzo[k]fluoranthene	252	12.210	12.210	0.000	97	1671237	50.0	46.8	
108 Benzo[a]pyrene	252	12.574	12.574	0.000	98	1573039	50.0	52.4	
* 109 Perylene-d12	264	12.645	12.645	0.000	99	1173969	40.0	40.0	
110 Indeno[1,2,3-cd]pyrene	276	14.004	14.004	0.000	96	1574052	50.0	63.1	
111 Dibenz(a,h)anthracene	278	14.039	14.039	0.000	99	1541909	50.0	59.6	
112 Benzo[g,h,i]perylene	276	14.333	14.333	0.000	96	1526584	50.0	54.9	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

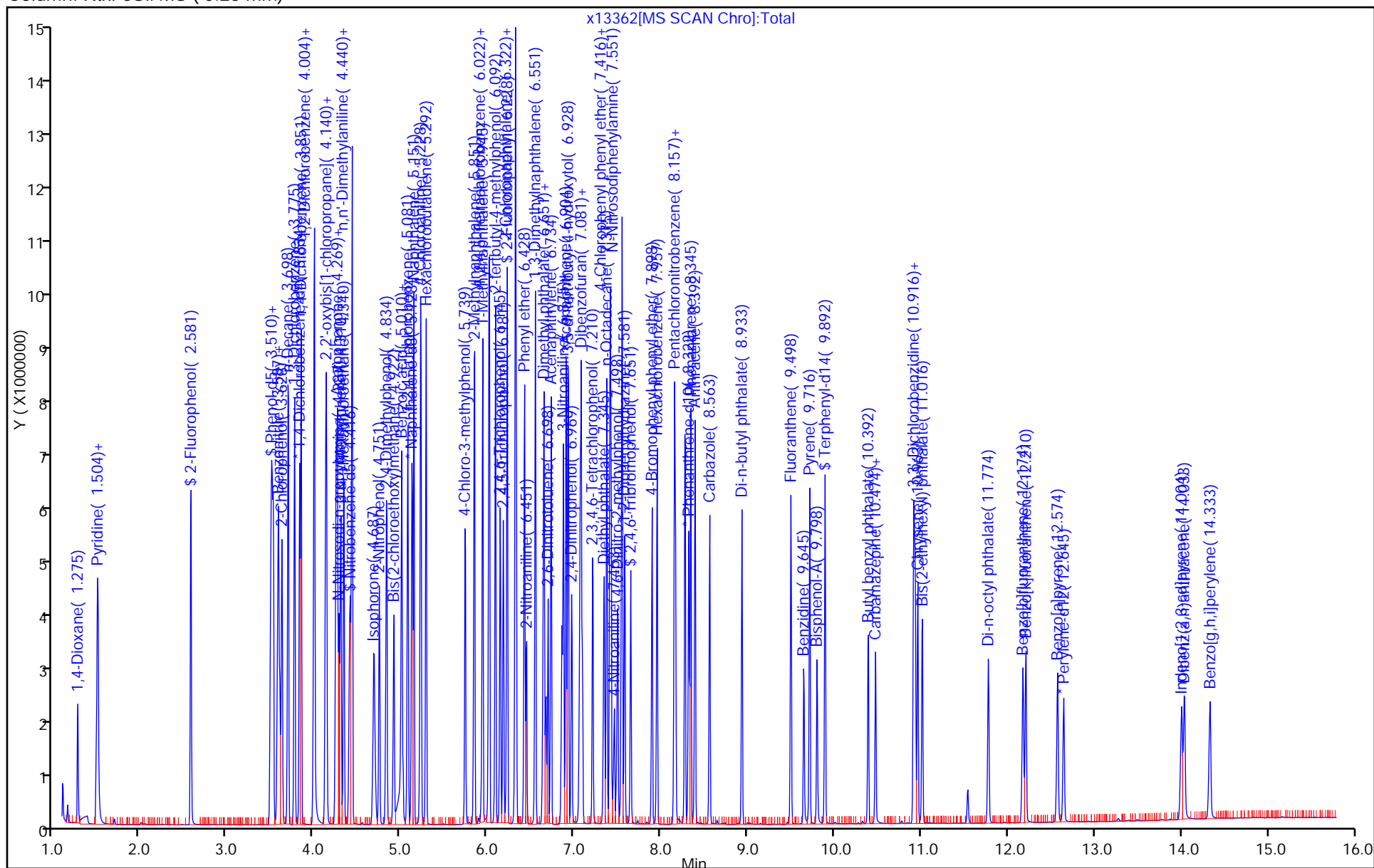
SV_IC_BNA_L6_00018

Amount Added: 1.00

Units: mL

Data File:	\\ChromNA\Edison\ChromData\CBNAMS5\20160427-40365.b\13362.D		
Injection Date:	27-Apr-2016 17:29:30	Instrument ID:	CBNAMS5
Lims ID:	ccvis		
Client ID:			
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	8270_5R	Limit Group:	SV 8270D ICA
Column:	Rtxi-5Sil MS (0.25 mm)		

Operator ID:
Worklist Smp#: 2
ALS Bottle#: 2



TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS5\20160427-40365.b\13362.D
Injection Date: 27-Apr-2016 17:29:30 Instrument ID: CBNAMS5
Lims ID: ccvis
Client ID:
Operator ID:
Injection Vol: 1.0 ul
Method: 8270_5R
Column: Rtxi-5Sil MS (0.25 mm)

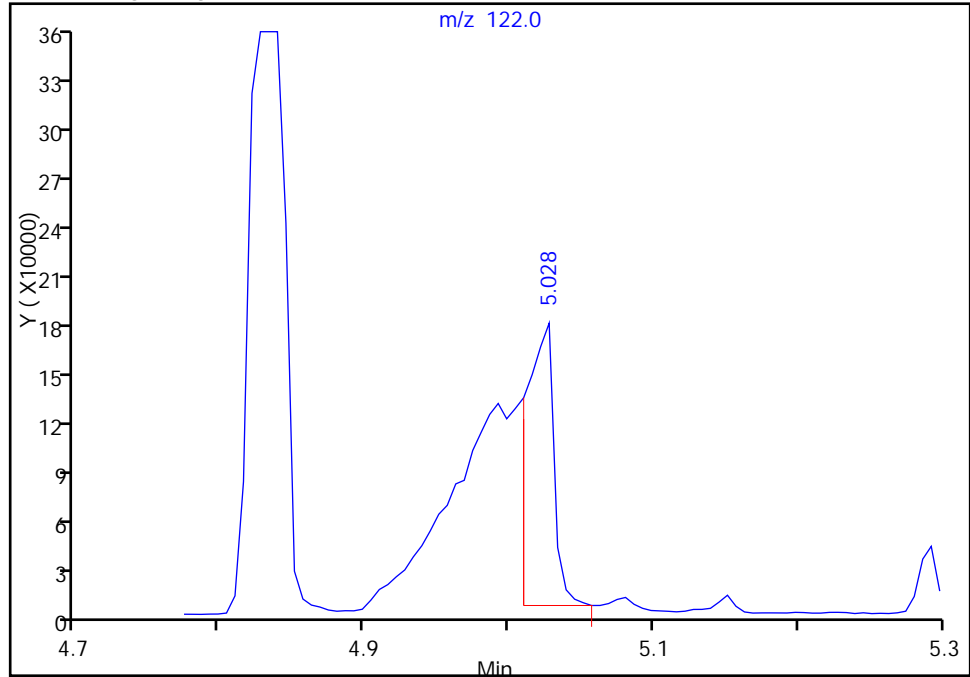
ALS Bottle#: 2 Worklist Smp#: 2
Dil. Factor: 1.0000
Limit Group: SV 8270D ICAL
Detector: MS SCAN

35 Benzoic acid, CAS: 65-85-0

Signal: 1

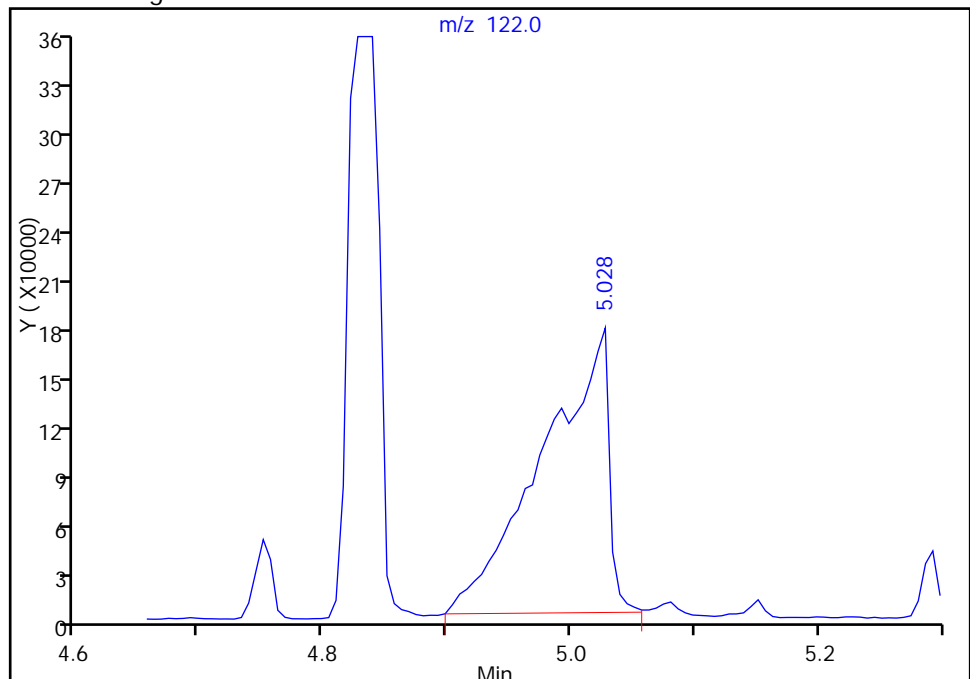
RT: 5.03
Area: 230019
Amount: 18.957187
Amount Units: ug/ml

Processing Integration Results



RT: 5.03
Area: 644032
Amount: 48.048263
Amount Units: ug/ml

Manual Integration Results



Reviewer: zhaoc, 27-Apr-2016 18:17:43

Audit Action: Manually Integrated

Audit Reason: Baseline

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-112518-1
SDG No.: _____
Lab Sample ID: CCV 460-365067/3 Calibration Date: 04/27/2016 17:57
Instrument ID: CBNAMS5 Calib Start Date: 04/11/2016 17:25
GC Column: Rtxi-5Sil MS ID: 0.25 (mm) Calib End Date: 04/11/2016 19:51
Lab File ID: x13363.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Benzaldehyde	Ave	1.112	0.9163	0.0100	41200	50000	-17.6	20.0
Caprolactam	Ave	0.0769	0.0799	0.0100	52000	50000	3.9	20.0
Atrazine	Ave	0.2042	0.2060	0.0100	50400	50000	0.9	20.0

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS5\20160427-40365.b\13363.D
 Lims ID: ccv
 Client ID:
 Sample Type: CCV
 Inject. Date: 27-Apr-2016 17:57:30 ALS Bottle#: 3 Worklist Smp#: 3
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 460-0040365-003
 Operator ID: Instrument ID: CBNAMS5
 Sublist: chrom-8270_5R*sub34
 Method: \\ChromNA\Edison\ChromData\CBNAMS5\20160427-40365.b\8270_5R.m
 Limit Group: SV 8270D ICAL
 Last Update: 28-Apr-2016 14:03:46 Calib Date: 18-Apr-2016 15:17:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS5\20160418-39964.b\12973.D
 Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK029

First Level Reviewer: szczecha

Date: 28-Apr-2016 14:03:45

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
5 Benzaldehyde	77	3.381	3.381	0.000	90	1192626	50.0	41.2	
* 14 1,4-Dichlorobenzene-d4	152	3.828	3.828	0.000	96	1041297	40.0	40.0	
* 38 Naphthalene-d8	136	5.122	5.122	0.000	99	3540928	40.0	40.0	
42 Caprolactam	113	5.569	5.569	0.000	91	353576	50.0	52.0	
* 65 Acenaphthene-d10	164	6.869	6.869	0.000	91	1895518	40.0	40.0	
84 Atrazine	200	8.086	8.086	0.000	95	689018	50.0	50.4	
* 88 Phenanthrene-d10	188	8.316	8.316	0.000	97	2675405	40.0	40.0	
* 102 Chrysene-d12	240	10.927	10.927	0.000	98	1650637	40.0	40.0	
* 109 Perylene-d12	264	12.645	12.645	0.000	99	1288967	40.0	40.0	

Reagents:

SV_IC-S_L6_00019

Amount Added: 1.00

Units: mL

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CBNAMS5\\20160427-40365.b\\x13363.D

Injection Date: 27-Apr-2016 17:57:30

Instrument ID: CBNAMS5

Operator ID:

Lims ID: ccv

Worklist Smp#: 3

Client ID:

Injection Vol: 1.0 ul

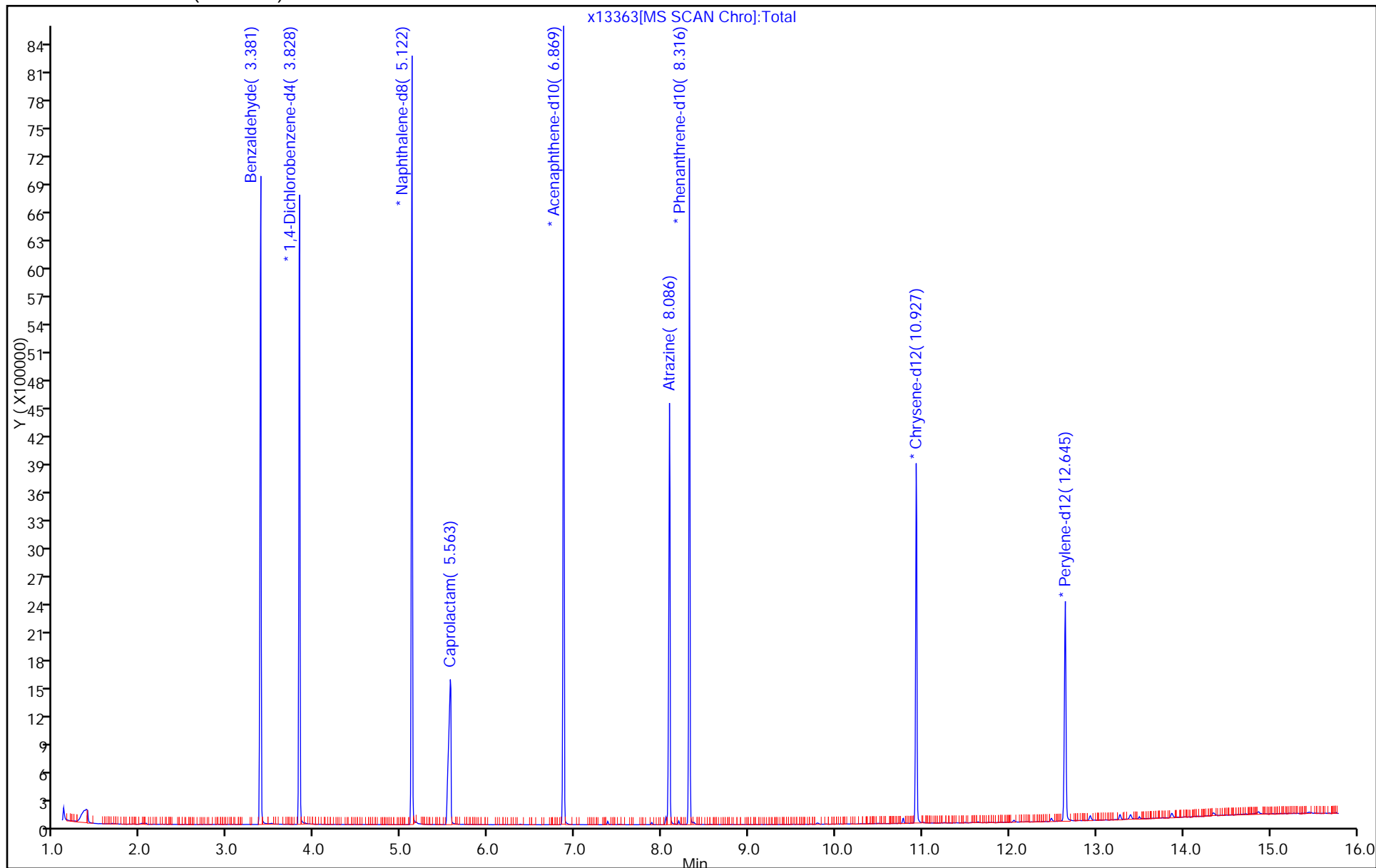
Dil. Factor: 1.0000

ALS Bottle#: 3

Method: 8270_5R

Limit Group: SV 8270D ICAL

Column: Rtxi-5Sil MS (0.25 mm)



TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS5\20160411-39723.b\12691.D
 Lims ID: dftpp
 Client ID:
 Sample Type: DFTPP
 Inject. Date: 11-Apr-2016 13:27:30 ALS Bottle#: 1 Worklist Smp#: 1
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: -0039723-001
 Misc. Info.: DFTPP
 Operator ID: Instrument ID: CBNAMS5
 Method: \\ChromNA\Edison\ChromData\CBNAMS5\20160411-39723.b\8270_5R.m
 Limit Group: SV 8270D ICAL
 Last Update: 11-Apr-2016 23:58:34 Calib Date: 11-Apr-2016 19:51:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS5\20160411-39723.b\12707.D
 Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK015

First Level Reviewer: croccom

Date: 11-Apr-2016 13:41:46

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
30 Pentachlorophenol_T	266	5.293	5.293	0.000	94	43828	NR	NR	
55 Benzidine_T	184	7.128	7.128	0.000	99	260055	NR	NR	
124 DFTPP									
126 4,4'-DDD	235	7.798	7.798	0.000	47	1928		NR	
127 4,4'-DDT	235	8.116	8.116	0.000	98	85679	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

SMDFTP_CH_00015

Amount Added: 1.00

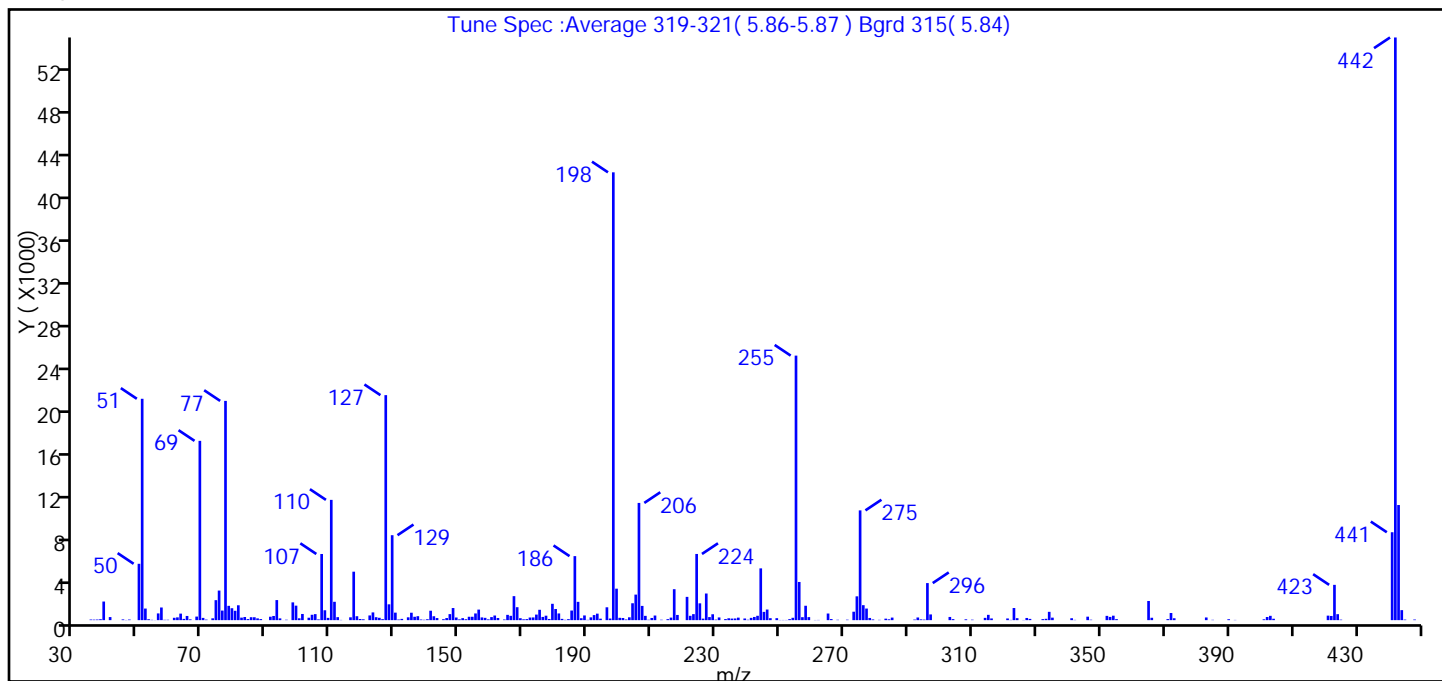
Units: mL

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS5\20160411-39723.b\12691.D
Injection Date: 11-Apr-2016 13:27:30 Instrument ID: CBNAMS5
Lims ID: dftpp
Client ID:
Operator ID:
Injection Vol: 1.0 ul
Method: 8270_5R
Tune Method: DFTPP Method 8270

ALS Bottle#: 1 Worklist Smp#: 1
Dil. Factor: 1.0000
Limit Group: SV 8270D ICAL

124 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	Base peak, 100% relative abundance	100.0
51	30-60% of mass 198	49.4
68	<2% of mass 69	0.8 (2.0)
69	Present	40.0
70	<2% of mass 69	0.5 (1.3)
127	40-60% of mass 198	50.2
197	<1% of mass 198	0.4
199	5-9% of mass 198	7.0
275	10-30% of mass 198	24.5
365	>1% of mass 198	4.3
441	Present but less than mass 443	19.6 (76.4)
442	>40% of mass 198	130.1
443	17-23% of mass 442	25.7 (19.8)

Data File: \\ChromNA\Edison\ChromData\CBNAMS5\20160411-39723.b\12691.D\8270_5R.rslt\spectra.d
Injection Date: 11-Apr-2016 13:27:30
Spectrum: Tune Spec :Average 319-321(5.86-5.87) Bgrd 315(5.84)
Base Peak: 442.00
Minimum % Base Peak: 0
Number of Points: 272

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	58	117.00	4571	189.00	443	271.00	44
36.00	48	118.00	370	190.00	27	273.00	795
37.00	57	119.00	107	191.00	262	274.00	2246
38.00	87	120.00	79	192.00	479	275.00	10353
39.00	1755	122.00	443	193.00	613	276.00	1412
41.00	290	123.00	730	194.00	138	277.00	1093
45.00	69	124.00	276	196.00	1213	278.00	206
46.00	17	125.00	221	197.00	152	279.00	66
47.00	57	126.00	94	198.00	42240	281.00	28
50.00	5316	127.00	21224	199.00	2968	283.00	140
51.00	20880	128.00	1493	200.00	220	284.00	79
52.00	1093	129.00	8012	201.00	203	285.00	241
53.00	87	130.00	708	202.00	63	292.00	55
54.00	29	131.00	58	203.00	269	293.00	251
55.00	10	132.00	119	204.00	1593	294.00	71
56.00	635	134.00	267	205.00	2409	295.00	51
57.00	1194	135.00	700	206.00	11057	296.00	3496
58.00	33	136.00	318	207.00	1343	297.00	539
59.00	37	137.00	373	208.00	404	303.00	301
61.00	222	138.00	59	209.00	36	304.00	96
62.00	262	139.00	34	210.00	206	308.00	78
63.00	615	140.00	85	211.00	435	310.00	43
64.00	118	141.00	888	213.00	38	314.00	216
65.00	395	142.00	368	215.00	95	315.00	500
66.00	75	143.00	198	216.00	239	316.00	160
67.00	2	145.00	88	217.00	2919	321.00	159
68.00	336	146.00	197	218.00	491	322.00	23
69.00	16912	147.00	568	221.00	2195	323.00	1144
70.00	212	148.00	1142	222.00	409	324.00	185
71.00	51	149.00	249	223.00	567	326.00	16
73.00	173	150.00	73	224.00	6243	327.00	205
74.00	1885	151.00	188	225.00	1586	328.00	118
75.00	2790	152.00	86	226.00	143	332.00	97

Report Date: 11-Apr-2016 23:58:36

Chrom Revision: 2.2 04-Mar-2016 14:36:24

Data File: \\ChromNA\Edison\ChromData\CBNAMS5\20160411-39723.b\12691.D\8270_5R.rsl\spectra.d

Injection Date: 11-Apr-2016 13:27:30

Spectrum: Tune Spec :Average 319-321(5.86-5.87) Bgrd 315(5.84)

Base Peak: 442.00

Minimum % Base Peak: 0

Number of Points: 272

m/z	Y	m/z	Y	m/z	Y	m/z	Y
76.00	903	153.00	318	227.00	2513	333.00	127
77.00	20680	154.00	319	228.00	289	334.00	784
78.00	1350	155.00	631	229.00	555	335.00	235
79.00	1124	156.00	994	230.00	49	341.00	180
80.00	882	157.00	257	231.00	255	342.00	25
81.00	1402	158.00	218	233.00	101	346.00	327
82.00	238	159.00	74	234.00	176	347.00	41
83.00	295	160.00	288	235.00	148	352.00	403
84.00	102	161.00	437	236.00	157	353.00	305
85.00	277	162.00	203	237.00	237	354.00	420
86.00	273	164.00	61	239.00	156	355.00	96
87.00	167	165.00	499	240.00	37	365.00	1807
88.00	100	166.00	407	241.00	214	366.00	225
91.00	323	167.00	2263	242.00	300	371.00	101
92.00	393	168.00	1220	243.00	410	372.00	674
93.00	1892	169.00	182	244.00	4884	373.00	177
94.00	166	170.00	78	245.00	779	383.00	252
95.00	3	171.00	98	246.00	1001	385.00	30
96.00	39	172.00	247	247.00	184	390.00	86
98.00	1676	173.00	256	249.00	185	392.00	21
99.00	1367	174.00	524	250.00	17	401.00	80
100.00	175	175.00	977	251.00	18	402.00	296
101.00	582	176.00	304	252.00	18	403.00	407
103.00	229	177.00	420	253.00	95	404.00	131
104.00	507	178.00	110	254.00	222	421.00	425
105.00	568	179.00	1542	255.00	24952	422.00	394
106.00	70	180.00	1050	256.00	3601	423.00	3329
107.00	6240	181.00	632	257.00	280	424.00	563
108.00	932	182.00	120	258.00	1357	425.00	46
109.00	214	183.00	30	259.00	285	441.00	8291
110.00	11345	184.00	94	261.00	16	442.00	54960
111.00	1731	185.00	906	262.00	21	443.00	10859
112.00	282	186.00	6039	265.00	625	444.00	944
113.00	21	187.00	1726	266.00	101	445.00	52

Report Date: 11-Apr-2016 23:58:36

Chrom Revision: 2.2 04-Mar-2016 14:36:24

Data File: \\ChromNA\Edison\ChromData\CBNAMS5\20160411-39723.b\12691.D\8270_5R.rslt\spectra.d

Injection Date: 11-Apr-2016 13:27:30

Spectrum: Tune Spec :Average 319-321(5.86-5.87) Bgrd 315(5.84)

Base Peak: 442.00

Minimum % Base Peak: 0

Number of Points: 272

m/z	Y	m/z	Y	m/z	Y	m/z	Y
116.00	267	188.00	180	268.00	35	448.00	58

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS5\20160411-39723.b\12691.D
Injection Date: 11-Apr-2016 13:27:30 Instrument ID: CBNAMS5
Lims ID: dftpp
Client ID:
Operator ID:
Injection Vol: 1.0 ul
Method: 8270_5R

ALS Bottle#: 1 Worklist Smp#: 1
Dil. Factor: 1.0000
Limit Group: SV 8270D ICAL

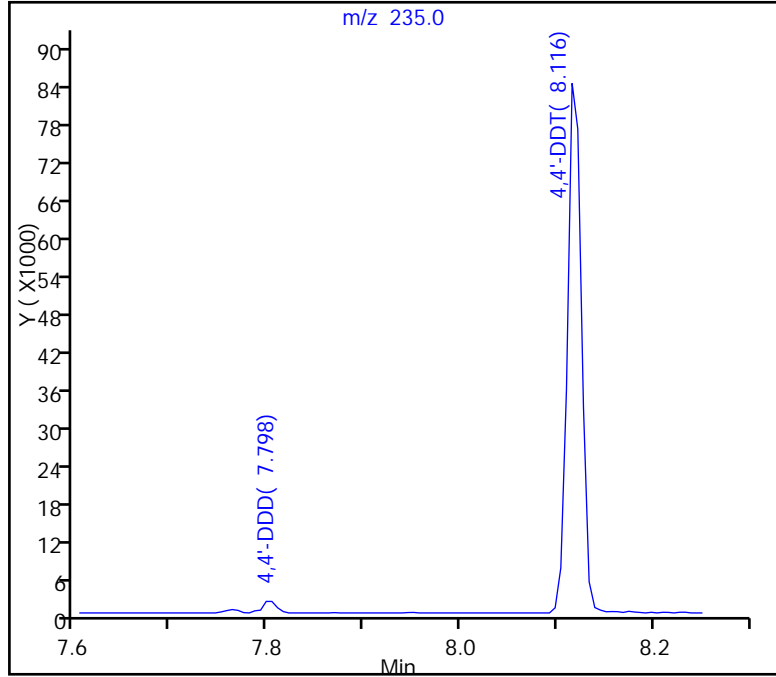
127 4,4'-DDT, Detector: MS SCAN

SW-846 Method

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

127 4,4'-DDT, Area = 85679
126 4,4'-DDD, Area = 1928
125 4,4'-DDE, Area = 0

%Breakdown: 2.20%, Max Limit: 20.00%
Passed



TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS5\20160411-39723.b\12691.D
Injection Date: 11-Apr-2016 13:27:30 Instrument ID: CBNAMS5
Lims ID: dftpp
Client ID:
Operator ID:
Injection Vol: 1.0 ul
Method: 8270_5R

ALS Bottle#: 1 Worklist Smp#: 1
Dil. Factor: 1.0000
Limit Group: SV 8270D ICAL

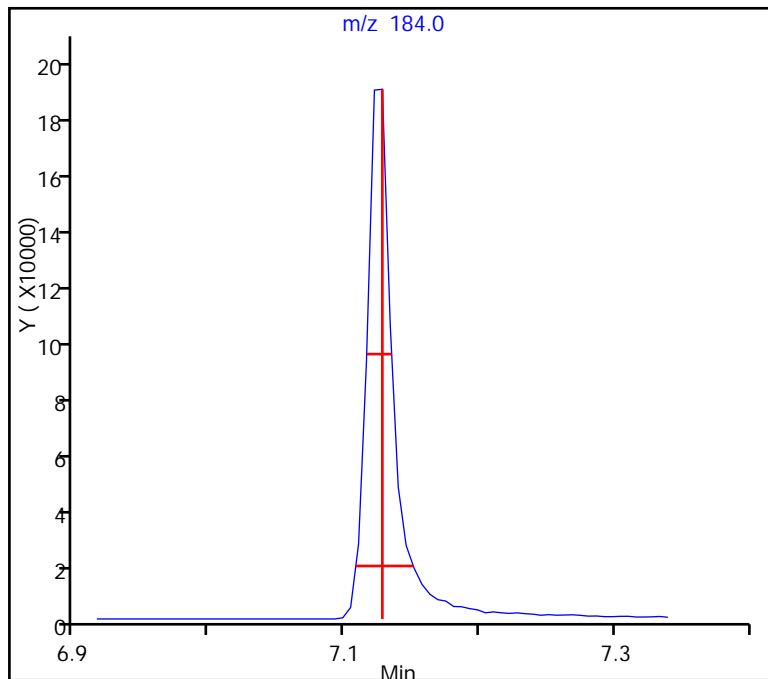
55 Benzidine_T, Detector: MS SCAN

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

Back Width = 0.023 (min.)

Front Width = 0.020 (min.)

Tailing Factor = 1.2, Max. Tailing < 2.00
Passed



TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS5\20160411-39723.b\12691.D

Injection Date: 11-Apr-2016 13:27:30

Instrument ID: CBNAMS5

Lims ID: dftpp

Client ID:

Operator ID:

ALS Bottle#: 1 Worklist Smp#: 1

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: 8270_5R

Limit Group: SV 8270D ICAL

30 Pentachlorophenol_T, Detector: MS SCAN

Peak Tailing Factor =

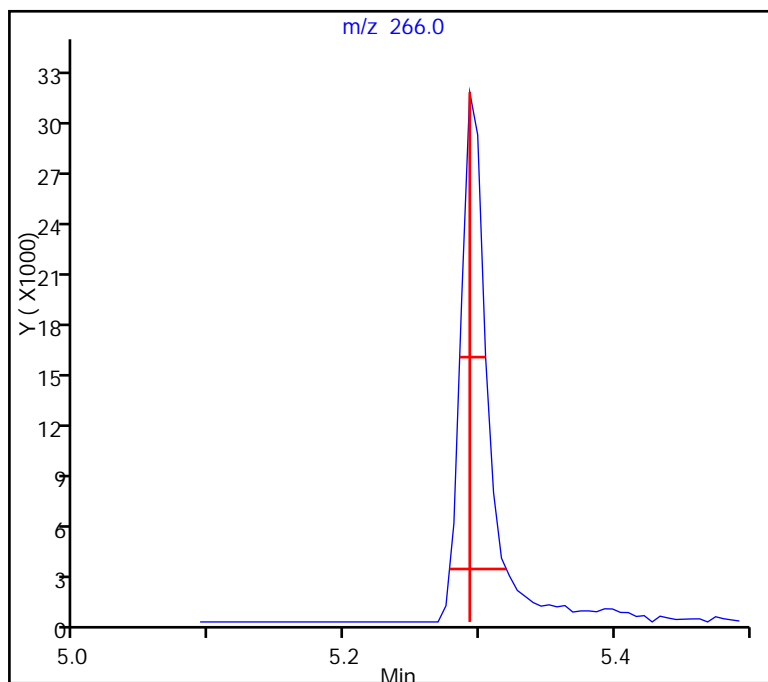
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.027 (min.)

Front Width = 0.015 (min.)

Tailing Factor = 1.8, Max. Tailing < 2.00

Passed



TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS5\20160418-39964.b\12964B.D
 Lims ID: dftpp
 Client ID:
 Sample Type: DFTPP
 Inject. Date: 18-Apr-2016 11:25:30 ALS Bottle#: 1 Worklist Smp#: 1
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 460-0039942-001
 Misc. Info.: DFTPP
 Operator ID: Instrument ID: CBNAMS5
 Method: \\ChromNA\Edison\ChromData\CBNAMS5\20160418-39964.b\8270_5R.m
 Limit Group: SV 8270D ICAL
 Last Update: 18-Apr-2016 17:19:25 Calib Date: 18-Apr-2016 15:17:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS5\20160418-39964.b\12973.D
 Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK009

First Level Reviewer: croccom

Date: 18-Apr-2016 12:19:22

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
30 Pentachlorophenol_T	266	4.669	4.669	0.000	91	29508	NR	NR	
55 Benzidine_T	184	6.504	6.504	0.000	99	409118	NR	NR	
124 DFTPP									
126 4,4'-DDD	235	7.175	7.175	0.000	91	3937		NR	
127 4,4'-DDT	235	7.498	7.498	0.000	97	160338	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

SMDFTP_CH_00015

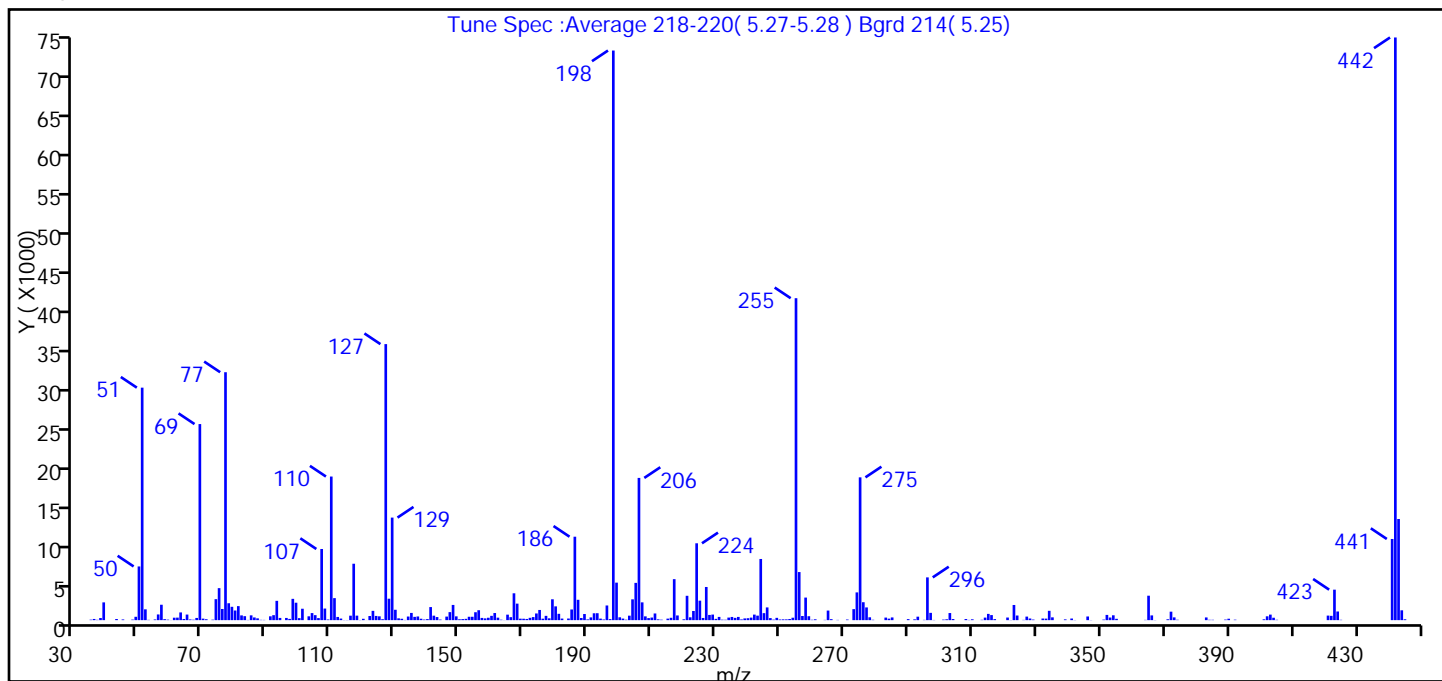
Amount Added: 1.00

Units: mL

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS5\20160418-39964.b\12964B.D
Injection Date: 18-Apr-2016 11:25:30 Instrument ID: CBNAMS5
Lims ID: dftpp
Client ID:
Operator ID: ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_5R Limit Group: SV 8270D ICAL
Tune Method: DFTPP Method 8270

124 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	Base peak, 100% relative abundance	100.0
51	30-60% of mass 198	40.8
68	<2% of mass 69	0.4 (1.1)
69	Present	34.4
70	<2% of mass 69	0.3 (0.8)
127	40-60% of mass 198	48.5
197	<1% of mass 198	0.2
199	5-9% of mass 198	6.6
275	10-30% of mass 198	25.1
365	>1% of mass 198	4.3
441	Present but less than mass 443	14.2 (80.2)
442	>40% of mass 198	102.3
443	17-23% of mass 442	17.8 (17.4)

Data File: \\ChromNA\Edison\ChromData\CBNAMS5\20160418-39964.b\12964B.D\8270_5R.rsl\spectra.d
Injection Date: 18-Apr-2016 11:25:30
Spectrum: Tune Spec :Average 218-220(5.27-5.28) Bgrd 214(5.25)
Base Peak: 442.00
Minimum % Base Peak: 0
Number of Points: 298

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	61	120.00	173	197.00	132	283.00	327
36.00	151	121.00	7	198.00	72952	284.00	192
37.00	41	122.00	529	199.00	4803	285.00	347
38.00	271	123.00	1189	200.00	365	290.00	131
39.00	2275	124.00	539	201.00	199	292.00	103
43.00	145	125.00	490	202.00	59	293.00	444
45.00	90	126.00	121	203.00	573	295.00	38
48.00	71	127.00	35352	204.00	2665	296.00	5477
49.00	430	128.00	2746	205.00	4773	297.00	933
50.00	6877	129.00	13134	206.00	18216	298.00	25
51.00	29776	130.00	1329	207.00	2277	301.00	71
52.00	1385	131.00	231	208.00	484	302.00	111
53.00	37	132.00	176	209.00	263	303.00	910
54.00	4	133.00	28	210.00	332	304.00	142
55.00	88	134.00	463	211.00	855	308.00	141
56.00	729	135.00	924	212.00	104	309.00	28
57.00	1973	136.00	422	213.00	59	310.00	108
58.00	125	137.00	471	215.00	193	313.00	47
59.00	63	138.00	179	216.00	301	314.00	325
60.00	11	139.00	75	217.00	5249	315.00	802
61.00	313	140.00	134	218.00	600	316.00	647
62.00	323	141.00	1675	220.00	107	317.00	131
63.00	988	142.00	572	221.00	3118	321.00	334
64.00	149	143.00	396	222.00	363	322.00	18
65.00	716	144.00	74	223.00	1172	323.00	1942
66.00	90	146.00	455	224.00	9843	324.00	592
67.00	56	147.00	1027	225.00	2495	326.00	34
68.00	282	148.00	1947	226.00	280	327.00	454
69.00	25112	149.00	485	227.00	4247	328.00	210
70.00	193	150.00	113	228.00	667	329.00	72
71.00	117	151.00	135	229.00	713	332.00	208
73.00	60	152.00	167	230.00	165	333.00	196
74.00	2688	153.00	432	231.00	414	334.00	1195

m/z	Y	m/z	Y	m/z	Y	m/z	Y
75.00	4098	154.00	432	232.00	60	335.00	358
76.00	1429	155.00	1013	233.00	52	339.00	98
77.00	31752	156.00	1270	234.00	328	341.00	207
78.00	2164	157.00	285	235.00	408	342.00	20
79.00	1708	158.00	226	236.00	293	346.00	469
80.00	1234	159.00	307	237.00	412	347.00	19
81.00	1796	160.00	551	238.00	90	351.00	70
82.00	608	161.00	912	239.00	221	352.00	670
83.00	508	162.00	318	240.00	248	353.00	335
84.00	28	163.00	55	241.00	323	354.00	621
85.00	615	164.00	12	242.00	709	355.00	170
86.00	344	165.00	703	243.00	576	364.00	35
87.00	231	166.00	383	244.00	7834	365.00	3130
88.00	38	167.00	3439	245.00	896	366.00	607
89.00	31	168.00	2115	246.00	1630	367.00	17
91.00	491	169.00	188	247.00	263	371.00	112
92.00	637	170.00	181	248.00	64	372.00	1085
93.00	2471	171.00	153	249.00	294	373.00	354
94.00	284	172.00	298	250.00	83	374.00	51
96.00	282	173.00	391	251.00	100	383.00	346
97.00	160	174.00	856	252.00	98	384.00	44
98.00	2728	175.00	1304	253.00	145	385.00	44
99.00	2232	176.00	188	254.00	310	389.00	72
100.00	258	177.00	549	255.00	41232	390.00	181
101.00	1461	178.00	233	256.00	6158	392.00	60
103.00	492	179.00	2673	257.00	530	401.00	108
104.00	904	180.00	1765	258.00	2890	402.00	492
105.00	640	181.00	810	259.00	503	403.00	709
106.00	263	182.00	201	260.00	50	404.00	308
107.00	9113	184.00	208	261.00	109	405.00	46
108.00	1485	185.00	1367	264.00	34	421.00	582
109.00	86	186.00	10686	265.00	1227	422.00	550
110.00	18392	187.00	2607	266.00	125	423.00	3904
111.00	2819	188.00	276	268.00	31	424.00	1108

Report Date: 18-Apr-2016 17:19:30

Chrom Revision: 2.2 04-Mar-2016 14:36:24

Data File: \\ChromNA\Edison\ChromData\CBNAMS5\20160418-39964.b\12964B.D\8270_5R.rslt\spectra.d

Injection Date: 18-Apr-2016 11:25:30

Spectrum: Tune Spec :Average 218-220(5.27-5.28) Bgrd 214(5.25)

Base Peak: 442.00

Minimum % Base Peak: 0

Number of Points: 298

m/z	Y	m/z	Y	m/z	Y	m/z	Y
112.00	409	189.00	784	271.00	80	425.00	42
113.00	202	190.00	96	273.00	1410	441.00	10395
114.00	17	191.00	351	274.00	3554	442.00	74624
115.00	19	192.00	879	275.00	18288	443.00	12954
116.00	571	193.00	888	276.00	2295	444.00	1261
117.00	7225	194.00	194	277.00	1630	445.00	111
118.00	576	195.00	84	278.00	366		
119.00	22	196.00	1878	279.00	47		

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS5\20160418-39964.b\12964B.D
Injection Date: 18-Apr-2016 11:25:30 Instrument ID: CBNAMS5
Lims ID: dftpp
Client ID:
Operator ID:
Injection Vol: 1.0 ul
Method: 8270_5R

ALS Bottle#: 1 Worklist Smp#: 1
Dil. Factor: 1.0000
Limit Group: SV 8270D ICAL

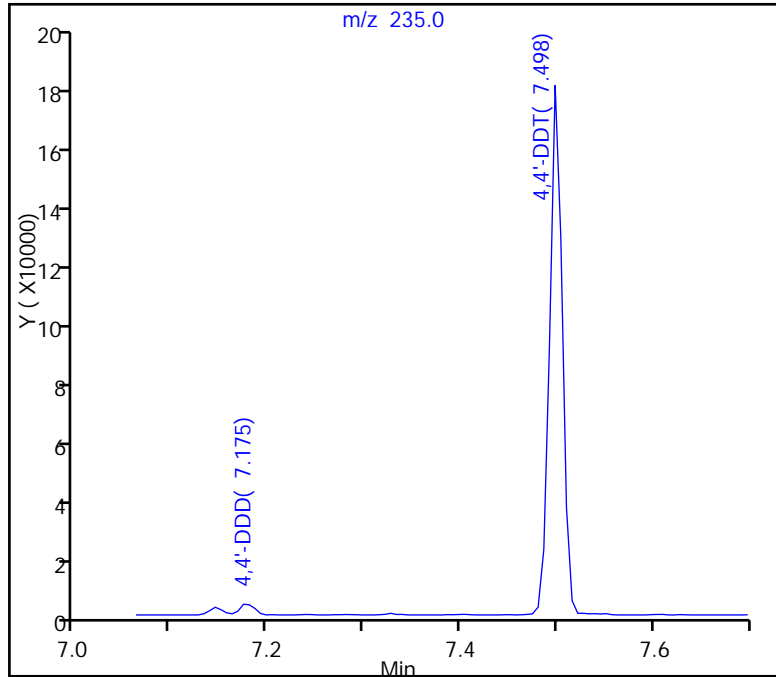
127 4,4'-DDT, Detector: MS SCAN

SW-846 Method

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

127 4,4'-DDT, Area = 160338
126 4,4'-DDD, Area = 3937
125 4,4'-DDE, Area = 0

%Breakdown: 2.40%, Max Limit: 20.00%
Passed



TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS5\20160418-39964.b\12964B.D
Injection Date: 18-Apr-2016 11:25:30 Instrument ID: CBNAMS5
Lims ID: dftpp
Client ID:
Operator ID:
Injection Vol: 1.0 ul
Method: 8270_5R

ALS Bottle#: 1 Worklist Smp#: 1
Dil. Factor: 1.0000
Limit Group: SV 8270D ICAL

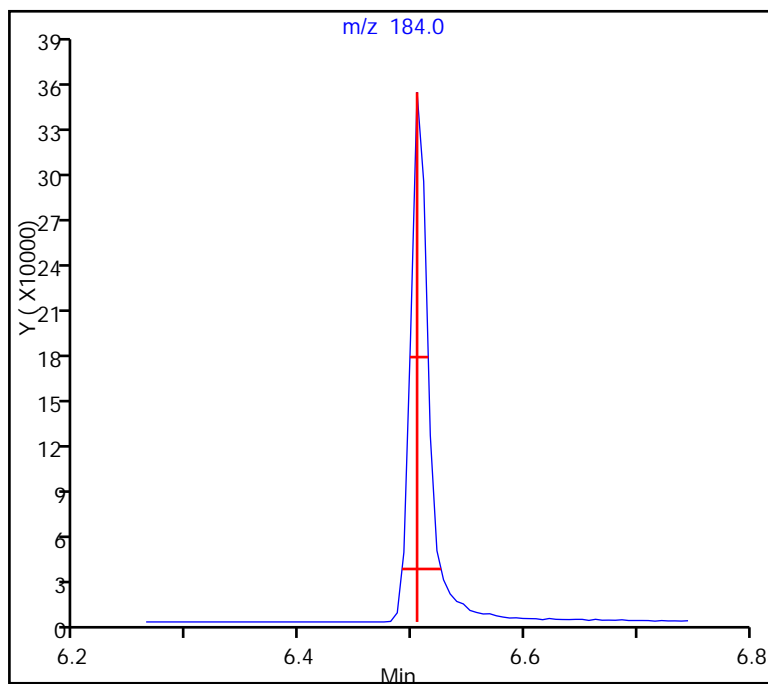
55 Benzidine_T, Detector: MS SCAN

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

Back Width = 0.021 (min.)

Front Width = 0.013 (min.)

Tailing Factor = 1.6, Max. Tailing < 2.00
Passed



TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS5\20160418-39964.b\12964B.D
Injection Date: 18-Apr-2016 11:25:30 Instrument ID: CBNAMS5
Lims ID: dftpp
Client ID:
Operator ID:
Injection Vol: 1.0 ul
Method: 8270_5R

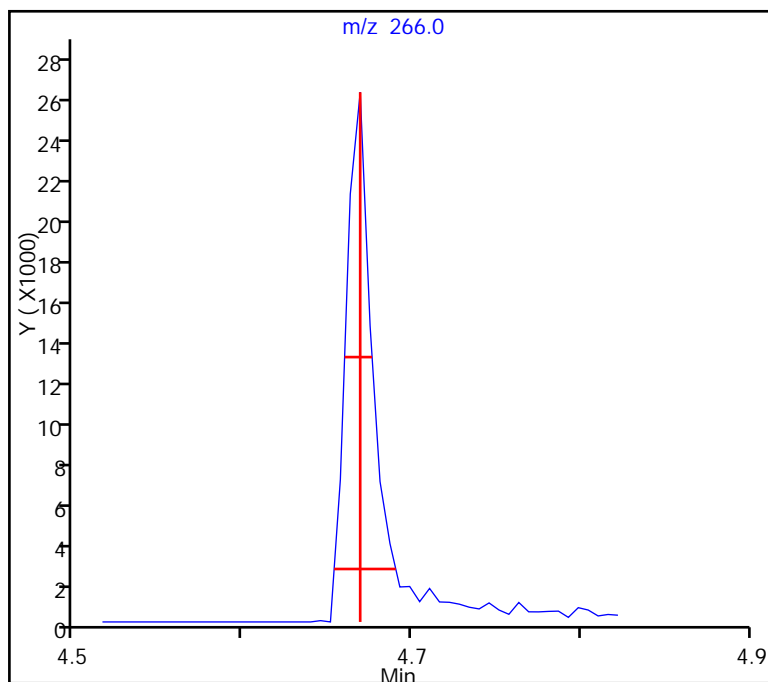
ALS Bottle#: 1 Worklist Smp#: 1
Dil. Factor: 1.0000
Limit Group: SV 8270D ICAL

30 Pentachlorophenol_T, Detector: MS SCAN

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

Back Width = 0.021 (min.)
Front Width = 0.015 (min.)

Tailing Factor = 1.4, Max. Tailing < 2.00
Passed



TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS5\20160427-40331.b\13330.D
 Lims ID: dftpp
 Client ID:
 Sample Type: DFTPP
 Inject. Date: 27-Apr-2016 04:12:30 ALS Bottle#: 1 Worklist Smp#: 1
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 460-0040331-001
 Misc. Info.: DFTPP
 Operator ID: Instrument ID: CBNAMS5
 Method: \\ChromNA\Edison\ChromData\CBNAMS5\20160427-40331.b\8270_5R.m
 Limit Group: SV 8270D ICAL
 Last Update: 27-Apr-2016 13:32:23 Calib Date: 18-Apr-2016 15:17:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS5\20160418-39964.b\12973.D
 Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK049

First Level Reviewer: szczech

Date: 27-Apr-2016 13:32:22

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
30 Pentachlorophenol_T	266	4.234	4.234	0.000	90	47508	NR	NR	
55 Benzidine_T	184	6.069	6.069	0.000	99	420810	NR	NR	
124 DFTPP									
125 4,4'-DDE	246	6.310	6.310	0.000	1	236		NR	
126 4,4'-DDD	235	6.740	6.740	0.000	89	6091		NR	M
127 4,4'-DDT	235	7.063	7.063	0.000	97	146715	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Review Flags

M - Manually Integrated

Reagents:

SMDFTP_CH_00015

Amount Added: 1.00

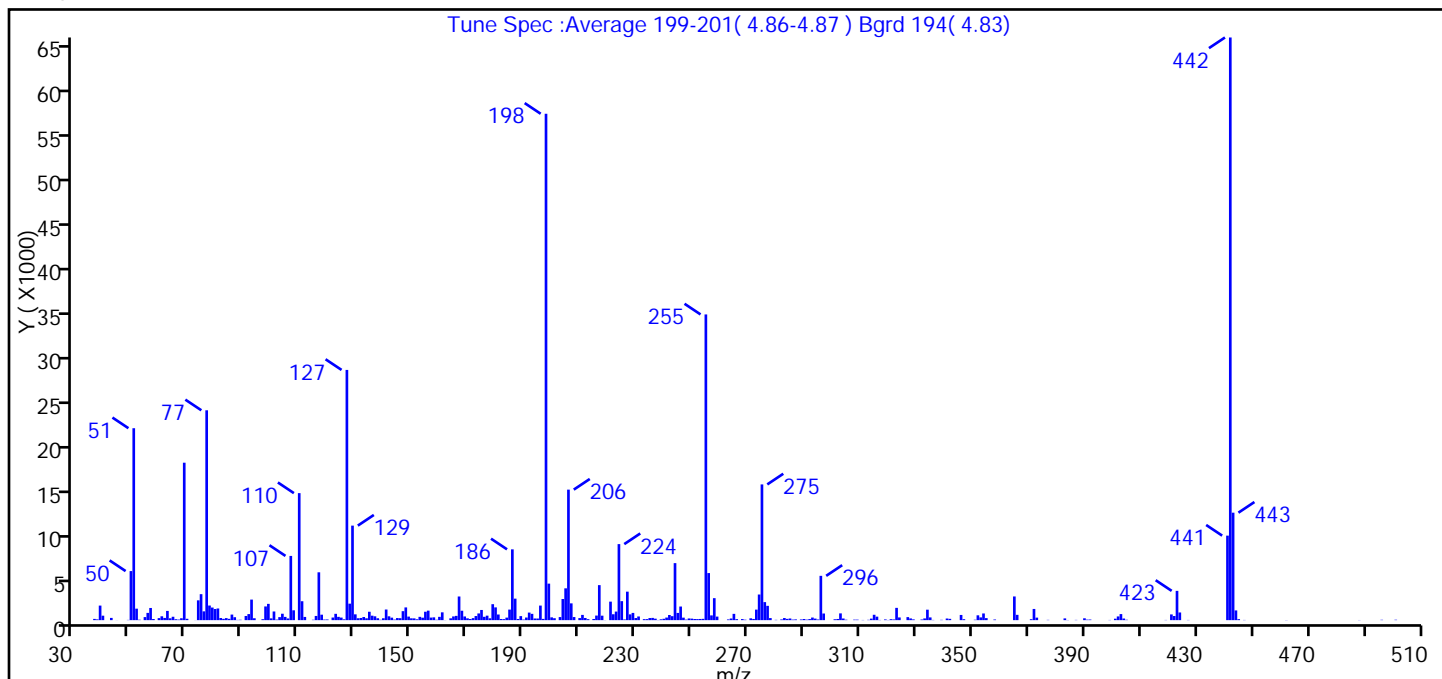
Units: mL

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS5\20160427-40331.b\13330.D
Injection Date: 27-Apr-2016 04:12:30 Instrument ID: CBNAMS5
Lims ID: dftpp
Client ID:
Operator ID:
Injection Vol: 1.0 ul
Method: 8270_5R
Tune Method: DFTPP Method 8270

ALS Bottle#: 1 Worklist Smp#: 1
Dil. Factor: 1.0000
Limit Group: SV 8270D ICAL

124 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	Base peak, 100% relative abundance	100.0
51	30-60% of mass 198	37.9
68	<2% of mass 69	0.4 (1.2)
69	Present	31.1
70	<2% of mass 69	0.3 (0.9)
127	40-60% of mass 198	49.4
197	<1% of mass 198	0.2
199	5-9% of mass 198	7.2
275	10-30% of mass 198	26.8
365	>1% of mass 198	4.7
441	Present but less than mass 443	16.7 (78.6)
442	>40% of mass 198	115.1
443	17-23% of mass 442	21.2 (18.4)

Data File: \\ChromNA\Edison\ChromData\CBNAMS5\20160427-40331.b\13330.D\8270_5R.rslt\spectra.d
Injection Date: 27-Apr-2016 04:12:30
Spectrum: Tune Spec :Average 199-201(4.86-4.87) Bgrd 194(4.83)
Base Peak: 442.00
Minimum % Base Peak: 0
Number of Points: 303

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	138	130.00	648	208.00	345	295.00	74
38.00	86	131.00	211	210.00	231	296.00	4944
39.00	1624	132.00	241	211.00	585	297.00	740
40.00	496	133.00	350	212.00	243	301.00	99
43.00	250	134.00	208	213.00	108	302.00	131
45.00	7	135.00	936	215.00	130	303.00	754
49.00	27	136.00	497	216.00	511	304.00	182
50.00	5474	137.00	427	217.00	3907	305.00	48
51.00	21416	138.00	212	218.00	497	308.00	57
52.00	1280	139.00	40	219.00	12	309.00	56
53.00	48	140.00	210	221.00	2065	311.00	21
55.00	340	141.00	1186	222.00	657	313.00	37
56.00	809	142.00	429	223.00	956	314.00	170
57.00	1358	143.00	277	224.00	8484	315.00	599
58.00	125	144.00	65	225.00	2119	316.00	390
60.00	225	145.00	235	226.00	78	317.00	22
61.00	430	146.00	217	227.00	3178	319.00	79
62.00	248	147.00	1002	228.00	645	320.00	19
63.00	1029	148.00	1420	229.00	807	321.00	105
64.00	207	149.00	396	230.00	235	322.00	77
65.00	378	150.00	204	231.00	410	323.00	1370
66.00	103	151.00	197	233.00	111	324.00	301
67.00	64	152.00	98	234.00	116	327.00	338
68.00	210	153.00	368	235.00	235	328.00	191
69.00	17568	154.00	275	236.00	250	329.00	84
70.00	152	155.00	938	237.00	165	332.00	70
73.00	9	156.00	1060	238.00	19	333.00	191
74.00	2210	157.00	286	239.00	93	334.00	1167
75.00	2899	158.00	311	240.00	153	335.00	304
76.00	981	159.00	44	241.00	288	336.00	23
77.00	23416	160.00	368	242.00	575	339.00	35
78.00	1631	161.00	871	243.00	442	341.00	181
79.00	1405	162.00	11	244.00	6362	342.00	145

m/z	Y	m/z	Y	m/z	Y	m/z	Y
80.00	1242	164.00	203	245.00	805	346.00	579
81.00	1302	165.00	415	246.00	1519	347.00	106
82.00	237	166.00	476	247.00	279	351.00	47
83.00	147	167.00	2639	248.00	59	352.00	539
84.00	227	168.00	1050	249.00	187	353.00	306
85.00	147	169.00	410	250.00	167	354.00	747
86.00	622	170.00	205	251.00	128	355.00	225
87.00	326	171.00	126	252.00	117	358.00	72
88.00	29	172.00	224	253.00	131	365.00	2643
89.00	43	173.00	459	254.00	145	366.00	592
91.00	465	174.00	748	255.00	34112	371.00	104
92.00	675	175.00	1136	256.00	5252	372.00	1249
93.00	2294	176.00	373	257.00	529	373.00	280
94.00	210	177.00	500	258.00	2453	377.00	32
97.00	103	178.00	205	259.00	396	383.00	195
98.00	1529	179.00	1781	260.00	2	384.00	17
99.00	1817	180.00	1424	263.00	80	387.00	28
100.00	196	181.00	629	264.00	181	390.00	207
101.00	967	182.00	128	265.00	702	391.00	58
102.00	62	183.00	113	266.00	112	392.00	67
103.00	337	184.00	281	268.00	118	399.00	22
104.00	716	185.00	1178	269.00	51	401.00	162
105.00	363	186.00	7900	271.00	203	402.00	414
106.00	187	187.00	2399	272.00	133	403.00	676
107.00	7166	188.00	130	273.00	1175	404.00	181
108.00	1098	189.00	450	274.00	2859	405.00	44
110.00	14172	190.00	66	275.00	15145	419.00	23
111.00	2111	191.00	291	276.00	2011	421.00	638
112.00	358	192.00	843	277.00	1596	422.00	460
115.00	44	193.00	702	278.00	229	423.00	3266
116.00	468	194.00	184	280.00	33	424.00	856
117.00	5338	195.00	180	282.00	81	427.00	22
118.00	609	196.00	1625	283.00	237	441.00	9430
119.00	66	197.00	140	284.00	142	442.00	65016

Report Date: 27-Apr-2016 13:32:24

Chrom Revision: 2.2 20-Apr-2016 13:59:46

Data File: \\ChromNA\Edison\ChromData\CBNAMS5\20160427-40331.blx13330.D\8270_5R.rslt\spectra.d

Injection Date: 27-Apr-2016 04:12:30

Spectrum: Tune Spec :Average 199-201(4.86-4.87) Bgrd 194(4.83)

Base Peak: 442.00

Minimum % Base Peak: 0

Number of Points: 303

m/z	Y	m/z	Y	m/z	Y	m/z	Y
120.00	74	198.00	56504	285.00	183	443.00	11991
122.00	291	199.00	4074	286.00	59	444.00	1085
123.00	705	200.00	311	287.00	84	445.00	110
124.00	366	201.00	215	289.00	75	447.00	23
125.00	286	203.00	343	290.00	126	462.00	16
126.00	92	204.00	2357	291.00	58	488.00	17
127.00	27920	205.00	3550	292.00	119	496.00	40
128.00	1839	206.00	14563	293.00	289	501.00	46
129.00	10547	207.00	1873	294.00	172		

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS5\20160427-40331.b\13330.D
Injection Date: 27-Apr-2016 04:12:30 Instrument ID: CBNAMS5
Lims ID: dftpp
Client ID:
Operator ID:
Injection Vol: 1.0 ul
Method: 8270_5R

ALS Bottle#: 1 Worklist Smp#: 1
Dil. Factor: 1.0000
Limit Group: SV 8270D ICAL

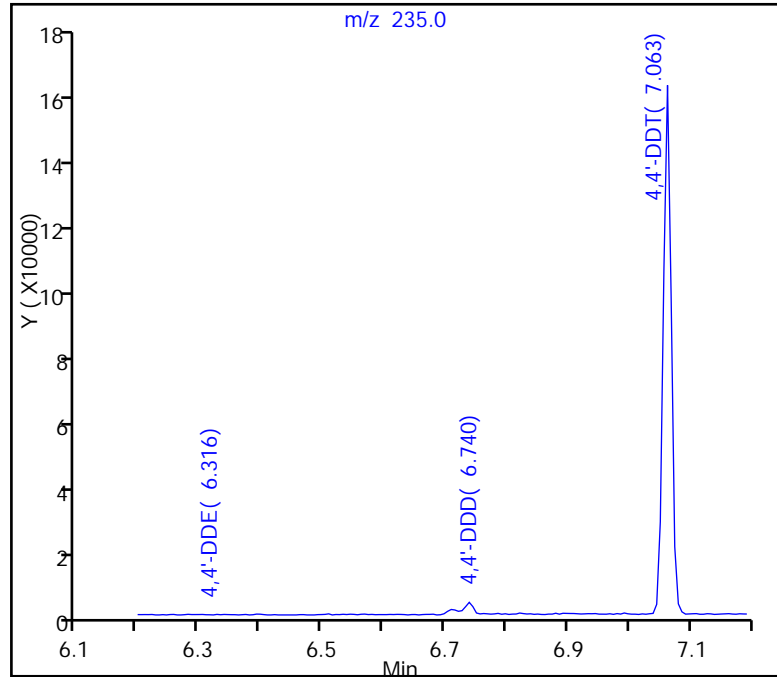
127 4,4'-DDT, Detector: MS SCAN

SW-846 Method

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

127 4,4'-DDT, Area = 146715
126 4,4'-DDD, Area = 6091
125 4,4'-DDE, Area = 236

%Breakdown: 4.13%, Max Limit: 20.00%
Passed



TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS5\20160427-40331.b\13330.D
Injection Date: 27-Apr-2016 04:12:30 Instrument ID: CBNAMS5
Lims ID: dftpp
Client ID:
Operator ID:
Injection Vol: 1.0 ul
Method: 8270_5R

ALS Bottle#: 1 Worklist Smp#: 1
Dil. Factor: 1.0000
Limit Group: SV 8270D ICAL

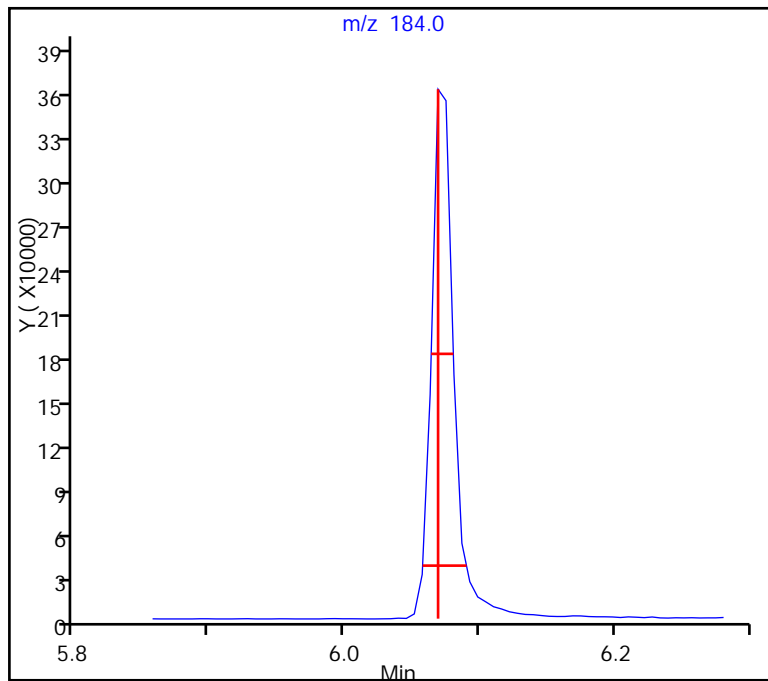
55 Benzidine_T, Detector: MS SCAN

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

Back Width = 0.021 (min.)

Front Width = 0.011 (min.)

Tailing Factor = 1.8, Max. Tailing < 2.00
Passed



TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS5\20160427-40331.b\13330.D

Injection Date: 27-Apr-2016 04:12:30

Instrument ID: CBNAMS5

Lims ID: dftpp

Client ID:

Operator ID:

ALS Bottle#: 1 Worklist Smp#: 1

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: 8270_5R

Limit Group: SV 8270D ICAL

30 Pentachlorophenol_T, Detector: MS SCAN

Peak Tailing Factor =

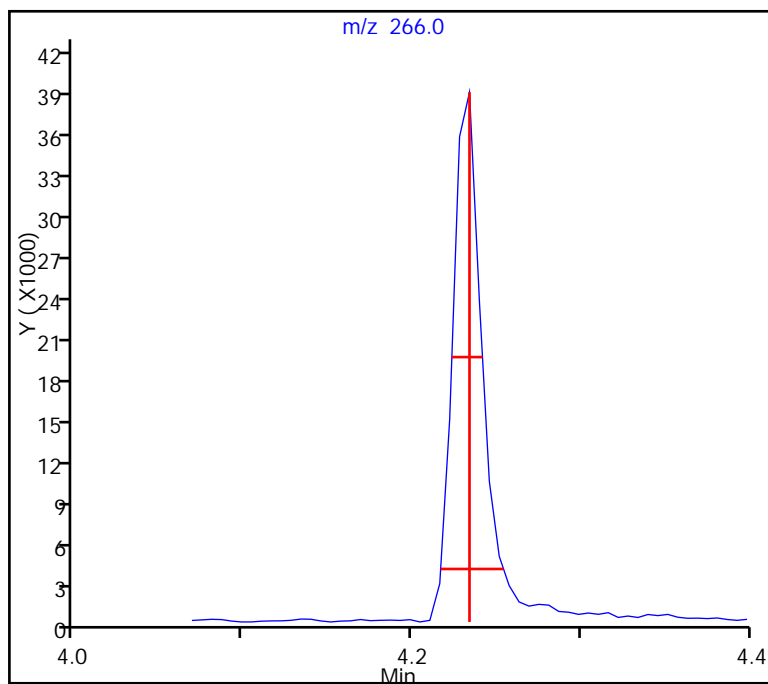
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.020 (min.)

Front Width = 0.017 (min.)

Tailing Factor = 1.2, Max. Tailing < 2.00

Passed



TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS5\20160427-40365.b\13361.D
 Lims ID: dftpp
 Client ID:
 Sample Type: DFTPP
 Inject. Date: 27-Apr-2016 17:12:30 ALS Bottle#: 1 Worklist Smp#: 1
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 460-0040365-001
 Misc. Info.: DFTPP
 Operator ID: Instrument ID: CBNAMS5
 Method: \\ChromNA\Edison\ChromData\CBNAMS5\20160427-40365.b\8270_5R.m
 Limit Group: SV 8270D ICAL
 Last Update: 28-Apr-2016 13:50:55 Calib Date: 18-Apr-2016 15:17:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS5\20160418-39964.b\12973.D
 Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK029

First Level Reviewer: szczecha

Date: 28-Apr-2016 13:50:54

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
30 Pentachlorophenol_T	266	4.210	4.210	0.000	92	25222	NR	NR	
55 Benzidine_T	184	6.051	6.051	0.000	99	342872	NR	NR	
124 DFTPP									
125 4,4'-DDE	246	6.299	6.299	0.000	1	307		NR	
126 4,4'-DDD	235	6.716	6.716	0.000	94	3663		NR	
127 4,4'-DDT	235	7.040	7.040	0.000	97	134582	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

SMDFTP_CH_00015

Amount Added: 1.00

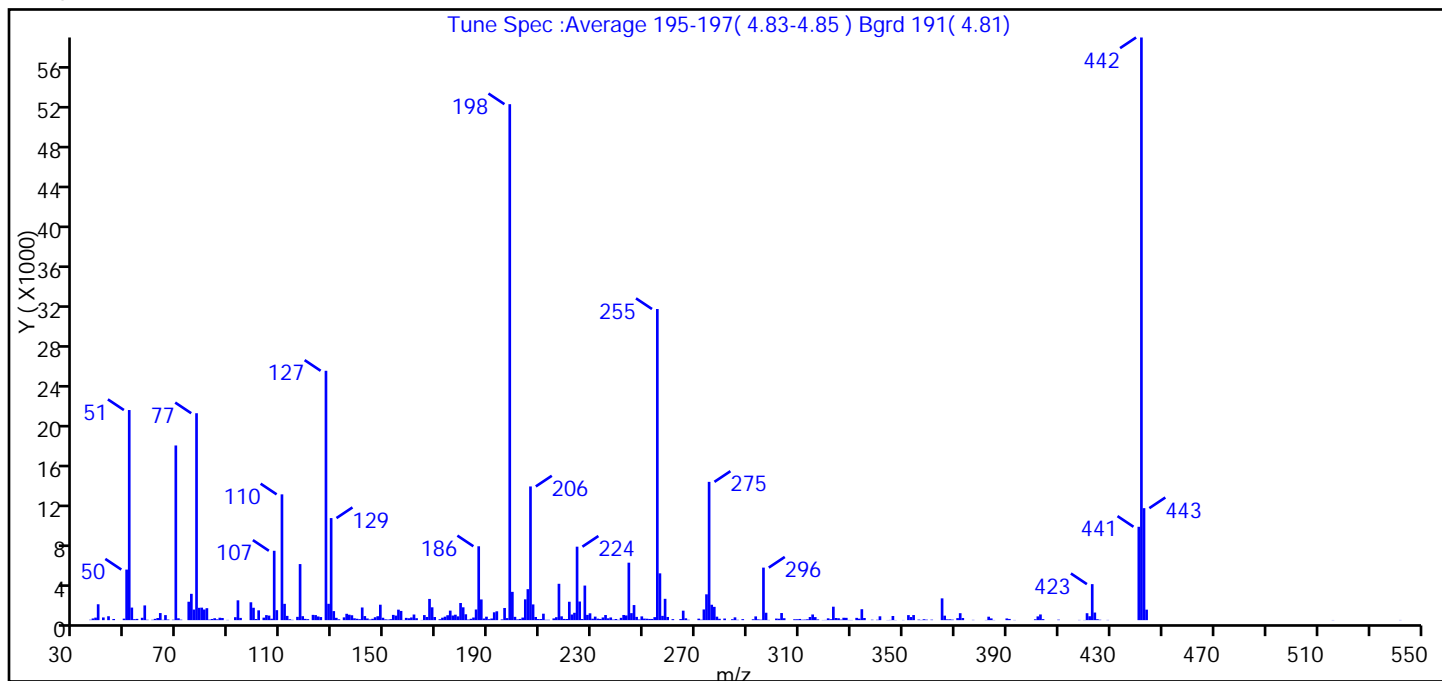
Units: mL

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS5\20160427-40365.b\13361.D
Injection Date: 27-Apr-2016 17:12:30 Instrument ID: CBNAMS5
Lims ID: dftpp
Client ID:
Operator ID:
Injection Vol: 1.0 ul
Method: 8270_5R
Tune Method: DFTPP Method 8270

ALS Bottle#: 1 Worklist Smp#: 1
Dil. Factor: 1.0000
Limit Group: SV 8270D ICAL

124 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	Base peak, 100% relative abundance	100.0
51	30-60% of mass 198	40.7
68	<2% of mass 69	0.1 (0.2)
69	Present	33.9
70	<2% of mass 69	0.4 (1.1)
127	40-60% of mass 198	48.3
197	<1% of mass 198	0.4
199	5-9% of mass 198	5.5
275	10-30% of mass 198	26.8
365	>1% of mass 198	4.2
441	Present but less than mass 443	18.1 (83.4)
442	>40% of mass 198	112.9
443	17-23% of mass 442	21.7 (19.2)

Data File: \\ChromNA\Edison\ChromData\CBNAMS5\20160427-40365.b\13361.D\8270_5R.rslt\spectra.d
Injection Date: 27-Apr-2016 17:12:30
Spectrum: Tune Spec :Average 195-197(4.83-4.85) Bgrd 191(4.81)
Base Peak: 442.00
Minimum % Base Peak: 0
Number of Points: 308

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	40	136.00	545	217.00	3645	310.00	119
37.00	168	137.00	491	218.00	383	311.00	44
38.00	252	138.00	184	219.00	122	312.00	58
39.00	1593	139.00	139	220.00	115	313.00	88
41.00	270	140.00	98	221.00	1844	314.00	314
43.00	392	141.00	1270	222.00	565	315.00	569
45.00	116	142.00	406	223.00	737	316.00	304
49.00	150	143.00	168	224.00	7365	317.00	75
50.00	5069	144.00	66	225.00	1867	319.00	18
51.00	21064	145.00	134	226.00	111	320.00	24
52.00	1260	146.00	290	227.00	3467	321.00	182
53.00	102	147.00	394	228.00	527	322.00	93
54.00	126	148.00	1548	229.00	686	323.00	1348
56.00	236	149.00	239	230.00	143	324.00	213
57.00	1477	150.00	83	231.00	353	325.00	190
58.00	41	151.00	59	232.00	150	326.00	58
60.00	39	152.00	98	233.00	120	327.00	240
61.00	130	153.00	527	234.00	271	328.00	231
62.00	212	154.00	455	235.00	513	329.00	21
63.00	710	155.00	1051	236.00	184	330.00	18
64.00	33	156.00	924	237.00	270	332.00	229
65.00	506	157.00	22	238.00	55	333.00	149
66.00	62	158.00	228	239.00	114	334.00	1098
68.00	42	159.00	188	240.00	34	335.00	215
69.00	17512	160.00	267	241.00	232	338.00	44
70.00	187	161.00	564	242.00	517	340.00	38
71.00	48	162.00	193	243.00	472	341.00	386
74.00	1845	164.00	21	244.00	5761	344.00	16
75.00	2639	165.00	508	245.00	702	345.00	24
76.00	1063	166.00	319	246.00	1512	346.00	415
77.00	20744	167.00	2127	247.00	327	347.00	17
78.00	1238	168.00	1287	248.00	65	350.00	19
79.00	1254	169.00	313	249.00	378	352.00	505

m/z	Y	m/z	Y	m/z	Y	m/z	Y
80.00	1065	171.00	95	250.00	154	353.00	314
81.00	1200	172.00	246	251.00	143	354.00	511
82.00	57	173.00	348	252.00	120	356.00	56
83.00	117	174.00	492	253.00	121	357.00	20
84.00	191	175.00	955	254.00	300	358.00	91
85.00	82	176.00	464	255.00	31192	359.00	50
86.00	241	177.00	546	256.00	4692	361.00	48
87.00	216	178.00	380	257.00	429	365.00	2184
89.00	24	179.00	1718	258.00	2138	366.00	449
92.00	295	180.00	1287	259.00	319	367.00	82
93.00	1988	181.00	588	261.00	99	368.00	84
94.00	225	182.00	62	264.00	106	369.00	52
98.00	1791	183.00	135	265.00	950	371.00	203
99.00	1241	184.00	262	266.00	183	372.00	698
100.00	113	185.00	1067	267.00	38	373.00	213
101.00	983	186.00	7406	271.00	149	377.00	28
103.00	250	187.00	2075	272.00	46	382.00	19
104.00	504	188.00	162	273.00	1072	383.00	345
105.00	457	189.00	346	274.00	2590	384.00	175
106.00	144	190.00	93	275.00	13865	385.00	18
107.00	6955	191.00	163	276.00	1544	390.00	170
108.00	1000	192.00	787	277.00	1334	391.00	120
110.00	12611	193.00	887	278.00	348	393.00	19
111.00	1635	195.00	74	279.00	137	400.00	2
112.00	428	196.00	1219	281.00	161	401.00	86
113.00	90	197.00	203	282.00	1	402.00	376
114.00	32	198.00	51728	283.00	3	403.00	570
116.00	330	199.00	2837	284.00	95	404.00	103
117.00	5621	200.00	331	285.00	280	410.00	49
118.00	396	201.00	78	286.00	35	418.00	23
119.00	128	202.00	121	288.00	100	420.00	19
120.00	97	203.00	258	292.00	89	421.00	696
122.00	528	204.00	2086	293.00	377	422.00	392
123.00	506	205.00	3106	294.00	77	423.00	3610

Report Date: 28-Apr-2016 13:51:01

Chrom Revision: 2.2 20-Apr-2016 13:59:46

Data File: \\ChromNA\Edison\ChromData\CBNAMS5\20160427-40365.blx13361.D\8270_5R.rslt\spectra.d

Injection Date: 27-Apr-2016 17:12:30

Spectrum: Tune Spec :Average 195-197(4.83-4.85) Bgrd 191(4.81)

Base Peak: 442.00

Minimum % Base Peak: 0

Number of Points: 308

m/z	Y	m/z	Y	m/z	Y	m/z	Y
124.00	368	206.00	13405	295.00	48	424.00	761
125.00	308	207.00	1577	296.00	5267	425.00	96
127.00	25000	208.00	318	297.00	742	426.00	40
128.00	1638	209.00	108	298.00	23	429.00	23
129.00	10233	210.00	114	301.00	158	441.00	9360
130.00	906	211.00	647	302.00	141	442.00	58416
131.00	233	212.00	38	303.00	714	443.00	11227
132.00	84	213.00	39	304.00	191	444.00	1052
134.00	279	215.00	174	308.00	89	516.00	16
135.00	638	216.00	294	309.00	91	542.00	19

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS5\20160427-40365.b\13361.D
Injection Date: 27-Apr-2016 17:12:30 Instrument ID: CBNAMS5
Lims ID: dftpp
Client ID:
Operator ID:
Injection Vol: 1.0 ul
Method: 8270_5R

ALS Bottle#: 1 Worklist Smp#: 1
Dil. Factor: 1.0000
Limit Group: SV 8270D ICAL

127 4,4'-DDT, Detector: MS SCAN

SW-846 Method

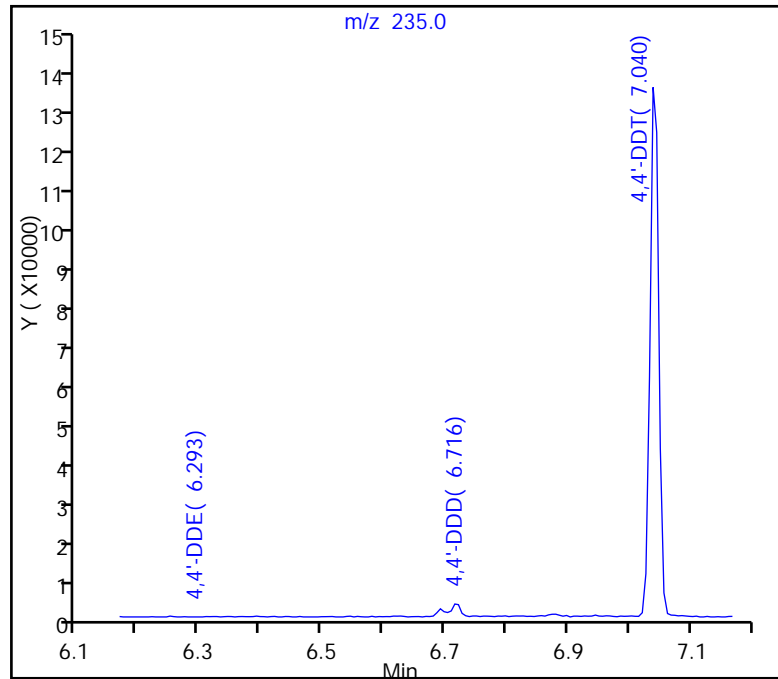
%Breakdown =
(Area Breakdown Cpnds/
Total Area Breakdown Cpnds) * 100

127 4,4'-DDT, Area = 134582

126 4,4'-DDD, Area = 3663

125 4,4'-DDE, Area = 307

%Breakdown: 2.87%, Max Limit: 20.00%
Passed



TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS5\20160427-40365.b\13361.D

Injection Date: 27-Apr-2016 17:12:30

Instrument ID: CBNAMS5

Lims ID: dftpp

Client ID:

Operator ID:

ALS Bottle#:

1

Worklist Smp#:

1

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: 8270_5R

Limit Group: SV 8270D ICAL

30 Pentachlorophenol_T, Detector: MS SCAN

Peak Tailing Factor =

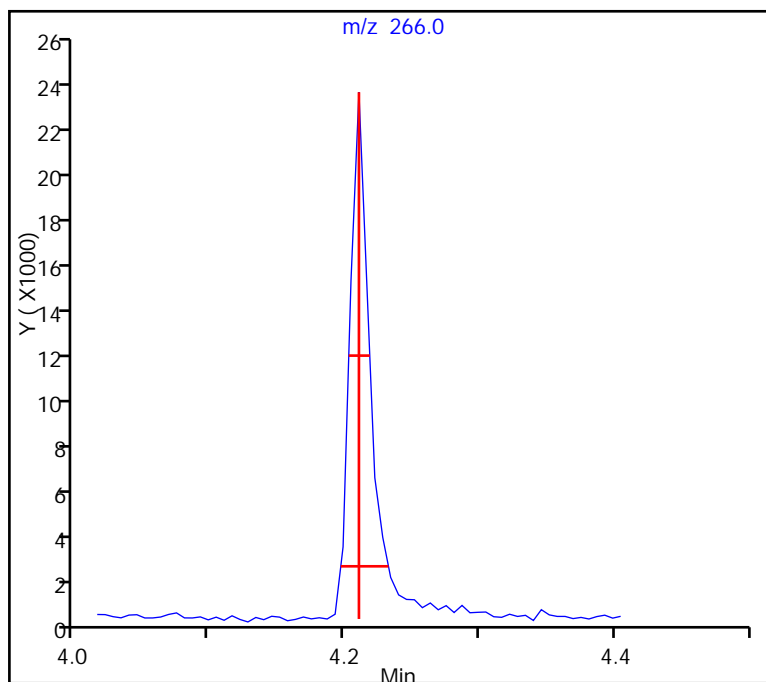
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.022 (min.)

Front Width = 0.013 (min.)

Tailing Factor = 1.6, Max. Tailing < 2.00

Passed



TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS5\20160427-40365.b\13361.D
Injection Date: 27-Apr-2016 17:12:30 Instrument ID: CBNAMS5
Lims ID: dftpp
Client ID:
Operator ID:
Injection Vol: 1.0 ul
Method: 8270_5R

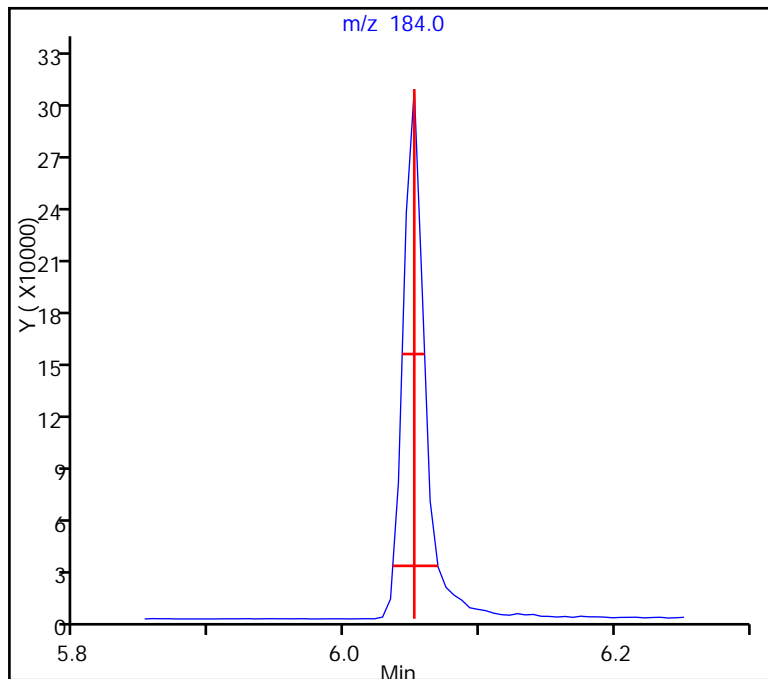
ALS Bottle#: 1 Worklist Smp#: 1
Dil. Factor: 1.0000
Limit Group: SV 8270D ICAL

55 Benzidine_T, Detector: MS SCAN

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

Back Width = 0.018 (min.)
Front Width = 0.016 (min.)

Tailing Factor = 1.1, Max. Tailing < 2.00
Passed



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Edison</u>	Job No.: <u>460-112518-1</u>
SDG No.: _____	
Client Sample ID: _____	Lab Sample ID: <u>MB 460-364798/1-A</u>
Matrix: <u>Solid</u>	Lab File ID: <u>x13333.D</u>
Analysis Method: <u>8270D</u>	Date Collected: _____
Extract. Method: <u>3546</u>	Date Extracted: <u>04/26/2016 13:16</u>
Sample wt/vol: <u>15.0000 (g)</u>	Date Analyzed: <u>04/27/2016 05:36</u>
Con. Extract Vol.: <u>1 (mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1 (uL)</u>	Level: (low/med) <u>Low</u>
% Moisture: _____	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>364897</u>	Units: <u>ug/Kg</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	1,1'-Biphenyl	330	U	330	28
95-94-3	1,2,4,5-Tetrachlorobenzene	330	U	330	25
108-60-1	2,2'-oxybis[1-chloropropane]	330	U	330	14
58-90-2	2,3,4,6-Tetrachlorophenol	330	U	330	31
95-95-4	2,4,5-Trichlorophenol	330	U	330	33
88-06-2	2,4,6-Trichlorophenol	130	U	130	9.4
120-83-2	2,4-Dichlorophenol	130	U	130	7.8
105-67-9	2,4-Dimethylphenol	330	U	330	73
51-28-5	2,4-Dinitrophenol	270	U	270	250
121-14-2	2,4-Dinitrotoluene	67	U	67	13
606-20-2	2,6-Dinitrotoluene	67	U	67	18
91-58-7	2-Chloronaphthalene	330	U	330	7.5
95-57-8	2-Chlorophenol	330	U	330	8.4
91-57-6	2-Methylnaphthalene	330	U	330	7.3
95-48-7	2-Methylphenol	330	U	330	14
88-74-4	2-Nitroaniline	330	U	330	11
88-75-5	2-Nitrophenol	330	U	330	11
91-94-1	3,3'-Dichlorobenzidine	130	U	130	37
99-09-2	3-Nitroaniline	330	U	330	9.8
534-52-1	4,6-Dinitro-2-methylphenol	270	U	270	88
101-55-3	4-Bromophenyl phenyl ether	330	U	330	10
59-50-7	4-Chloro-3-methylphenol	330	U	330	14
106-47-8	4-Chloroaniline	330	U	330	8.5
7005-72-3	4-Chlorophenyl phenyl ether	330	U	330	9.9
106-44-5	4-Methylphenol	330	U	330	9.0
100-01-6	4-Nitroaniline	330	U	330	13
100-02-7	4-Nitrophenol	670	U	670	160
83-32-9	Acenaphthene	330	U	330	8.0
208-96-8	Acenaphthylene	330	U	330	8.5
98-86-2	Acetophenone	330	U	330	7.2
120-12-7	Anthracene	330	U	330	31
1912-24-9	Atrazine	130	U	130	15
100-52-7	Benzaldehyde	330	U	330	25
56-55-3	Benzo[a]anthracene	33	U	33	28

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Edison</u>	Job No.: <u>460-112518-1</u>
SDG No.: _____	
Client Sample ID: _____	Lab Sample ID: <u>MB 460-364798/1-A</u>
Matrix: <u>Solid</u>	Lab File ID: <u>x13333.D</u>
Analysis Method: <u>8270D</u>	Date Collected: _____
Extract. Method: <u>3546</u>	Date Extracted: <u>04/26/2016 13:16</u>
Sample wt/vol: <u>15.0000 (g)</u>	Date Analyzed: <u>04/27/2016 05:36</u>
Con. Extract Vol.: <u>1 (mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1 (uL)</u>	Level: (low/med) <u>Low</u>
% Moisture: _____	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>364897</u>	Units: <u>ug/Kg</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
50-32-8	Benzo[a]pyrene	33	U	33	10
205-99-2	Benzo[b]fluoranthene	33	U	33	13
191-24-2	Benzo[g,h,i]perylene	330	U	330	19
207-08-9	Benzo[k]fluoranthene	33	U	33	14
111-91-1	Bis(2-chloroethoxy)methane	330	U	330	10
111-44-4	Bis(2-chloroethyl)ether	33	U	33	7.8
117-81-7	Bis(2-ethylhexyl) phthalate	330	U	330	13
85-68-7	Butyl benzyl phthalate	330	U	330	10
105-60-2	Caprolactam	330	U	330	24
86-74-8	Carbazole	330	U	330	8.2
218-01-9	Chrysene	330	U	330	9.0
53-70-3	Dibenz(a,h)anthracene	33	U	33	17
132-64-9	Dibenzofuran	330	U	330	10
84-66-2	Diethyl phthalate	330	U	330	9.4
131-11-3	Dimethyl phthalate	330	U	330	9.6
84-74-2	Di-n-butyl phthalate	330	U	330	9.9
117-84-0	Di-n-octyl phthalate	330	U	330	17
206-44-0	Fluoranthene	330	U	330	9.8
86-73-7	Fluorene	330	U	330	7.2
118-74-1	Hexachlorobenzene	33	U	33	13
87-68-3	Hexachlorobutadiene	67	U	67	9.3
77-47-4	Hexachlorocyclopentadiene	330	U	330	21
67-72-1	Hexachloroethane	33	U	33	12
193-39-5	Indeno[1,2,3-cd]pyrene	33	U	33	22
78-59-1	Isophorone	130	U	130	7.1
91-20-3	Naphthalene	330	U	330	8.4
98-95-3	Nitrobenzene	33	U	33	10
621-64-7	N-Nitrosodi-n-propylamine	33	U	33	11
86-30-6	N-Nitrosodiphenylamine	330	U	330	30
87-86-5	Pentachlorophenol	270	U	270	40
85-01-8	Phenanthrene	330	U	330	8.8
108-95-2	Phenol	330	U	330	11
129-00-0	Pyrene	330	U	330	15

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Edison</u>	Job No.: <u>460-112518-1</u>
SDG No.: _____	
Client Sample ID: _____	Lab Sample ID: <u>MB 460-364798/1-A</u>
Matrix: <u>Solid</u>	Lab File ID: <u>x13333.D</u>
Analysis Method: <u>8270D</u>	Date Collected: _____
Extract. Method: <u>3546</u>	Date Extracted: <u>04/26/2016 13:16</u>
Sample wt/vol: <u>15.0000 (g)</u>	Date Analyzed: <u>04/27/2016 05:36</u>
Con. Extract Vol.: <u>1 (mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1 (uL)</u>	Level: (low/med) <u>Low</u>
% Moisture: _____	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>364897</u>	Units: <u>ug/Kg</u>

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol (Surr)	93		10-95
321-60-8	2-Fluorobiphenyl	70		27-84
367-12-4	2-Fluorophenol (Surr)	70		21-84
4165-60-0	Nitrobenzene-d5 (Surr)	72		28-92
4165-62-2	Phenol-d5 (Surr)	73		22-88
1718-51-0	Terphenyl-d14 (Surr)	84		16-114

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS5\20160427-40331.b\13333.D
 Lims ID: MB 460-364798/1-A
 Client ID:
 Sample Type: MB
 Inject. Date: 27-Apr-2016 05:36:30 ALS Bottle#: 4 Worklist Smp#: 4
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 460-0040331-004
 Operator ID: Instrument ID: CBNAMS5
 Method: \\ChromNA\Edison\ChromData\CBNAMS5\20160427-40331.b\8270_5R.m
 Limit Group: SV 8270D ICAL
 Last Update: 27-Apr-2016 13:34:33 Calib Date: 18-Apr-2016 15:17:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS5\20160418-39964.b\12973.D
 Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK049

First Level Reviewer: szczecha

Date: 27-Apr-2016 13:34:33

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
\$ 4 2-Fluorophenol	112	2.634	2.598	0.036	95	1313156	50.0	35.0	
\$ 6 Phenol-d5	99	3.516	3.540	-0.024	87	1569608	50.0	36.5	
10 Benzonitrile	103	3.604	3.622	-0.018	1	588		NC	
* 14 1,4-Dichlorobenzene-d4	152	3.851	3.846	0.005	97	1112235	40.0	40.0	
20 N-Methylaniline	106	4.257	4.275	-0.018	35	259		NC	
\$ 26 Nitrobenzene-d5	82	4.416	4.434	-0.018	92	1447682	50.0	36.2	
29 2-Toluidine	107	4.928	4.968	-0.040	1	96		NC	
* 38 Naphthalene-d8	136	5.140	5.140	0.000	99	4115978	40.0	40.0	
\$ 51 2-Fluorobiphenyl	172	6.240	6.245	-0.005	98	3181050	50.0	34.9	
* 65 Acenaphthene-d10	164	6.887	6.887	0.000	91	2327327	40.0	40.0	
\$ 80 2,4,6-Tribromophenol	330	7.663	7.669	-0.006	90	663811	50.0	46.6	
* 88 Phenanthrene-d10	188	8.334	8.334	0.000	97	3349029	40.0	40.0	
62 1-Naphthylamine	143	8.334	8.385	-0.051	42	1276		NC	
63 2-Naphthylamine	143	8.334	8.385	-0.051	41	1276		NC	
\$ 96 Terphenyl-d14	244	9.910	9.910	0.000	98	2512969	50.0	42.1	
* 102 Chrysene-d12	240	10.945	10.951	-0.006	98	2088494	40.0	40.0	
* 109 Perylene-d12	264	12.669	12.669	0.000	99	1670398	40.0	40.0	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

SM_ISTD_00105

Amount Added: 20.00

Units: uL

Run Reagent

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CBNAMS5\\20160427-40331.b\\x13333.D

Injection Date: 27-Apr-2016 05:36:30

Instrument ID: CBNAMS5

Operator ID:

Lims ID: MB 460-364798/1-A

Worklist Smp#: 4

Client ID:

Injection Vol: 1.0 ul

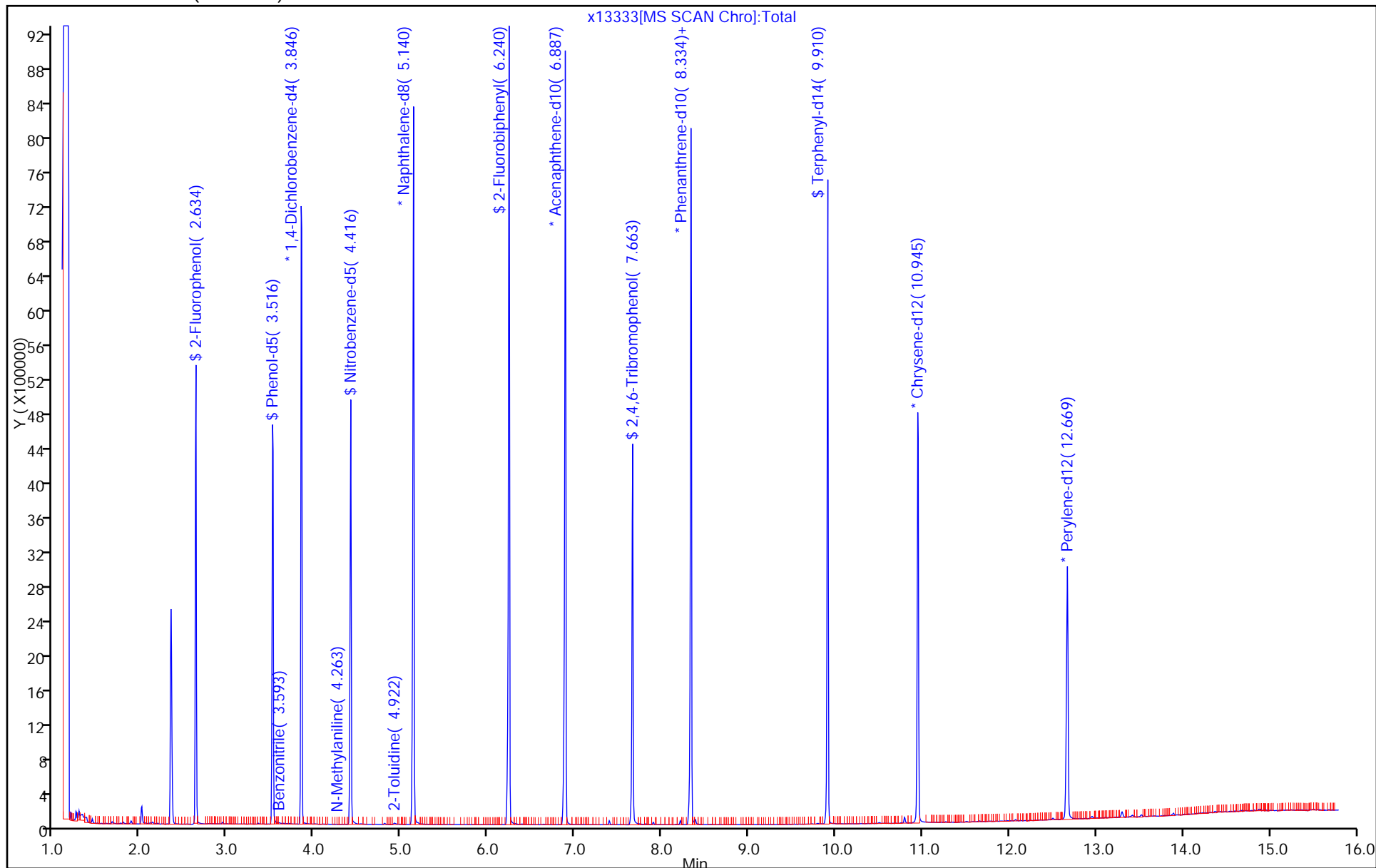
Dil. Factor: 1.0000

ALS Bottle#: 4

Method: 8270_5R

Limit Group: SV 8270D ICAL

Column: Rtxi-5Sil MS (0.25 mm)



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Edison</u>	Job No.: <u>460-112518-1</u>
SDG No.: _____	
Client Sample ID: _____	Lab Sample ID: <u>LCS 460-364798/2-A</u>
Matrix: <u>Solid</u>	Lab File ID: <u>x13334.D</u>
Analysis Method: <u>8270D</u>	Date Collected: _____
Extract. Method: <u>3546</u>	Date Extracted: <u>04/26/2016 13:16</u>
Sample wt/vol: <u>15.0000 (g)</u>	Date Analyzed: <u>04/27/2016 05:59</u>
Con. Extract Vol.: <u>1 (mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1 (uL)</u>	Level: (low/med) <u>Low</u>
% Moisture: _____	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>364897</u>	Units: <u>ug/Kg</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	1,1'-Biphenyl	2360		330	28
95-94-3	1,2,4,5-Tetrachlorobenzene	2360		330	25
108-60-1	2,2'-oxybis[1-chloropropane]	2220		330	14
58-90-2	2,3,4,6-Tetrachlorophenol	2660		330	31
95-95-4	2,4,5-Trichlorophenol	2370		330	33
88-06-2	2,4,6-Trichlorophenol	2540		130	9.4
120-83-2	2,4-Dichlorophenol	2250		130	7.8
105-67-9	2,4-Dimethylphenol	2230		330	73
51-28-5	2,4-Dinitrophenol	5360		270	250
121-14-2	2,4-Dinitrotoluene	2660		67	13
606-20-2	2,6-Dinitrotoluene	2520		67	18
91-58-7	2-Chloronaphthalene	2350		330	7.5
95-57-8	2-Chlorophenol	2270		330	8.4
91-57-6	2-Methylnaphthalene	2280		330	7.3
95-48-7	2-Methylphenol	2290		330	14
88-74-4	2-Nitroaniline	2540		330	11
88-75-5	2-Nitrophenol	2350		330	11
91-94-1	3,3'-Dichlorobenzidine	1770		130	37
99-09-2	3-Nitroaniline	1810		330	9.8
534-52-1	4,6-Dinitro-2-methylphenol	5150		270	88
101-55-3	4-Bromophenyl phenyl ether	2590		330	10
59-50-7	4-Chloro-3-methylphenol	2440		330	14
106-47-8	4-Chloroaniline	1800		330	8.5
7005-72-3	4-Chlorophenyl phenyl ether	2580		330	9.9
106-44-5	4-Methylphenol	2430		330	9.0
100-01-6	4-Nitroaniline	2430		330	13
100-02-7	4-Nitrophenol	5630		670	160
83-32-9	Acenaphthene	2550		330	8.0
208-96-8	Acenaphthylene	2470		330	8.5
98-86-2	Acetophenone	2360		330	7.2
120-12-7	Anthracene	2590		330	31
56-55-3	Benzo[a]anthracene	2570		33	28
50-32-8	Benzo[a]pyrene	2620		33	10
205-99-2	Benzo[b]fluoranthene	2710		33	13

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Edison</u>	Job No.: <u>460-112518-1</u>
SDG No.: _____	
Client Sample ID: _____	Lab Sample ID: <u>LCS 460-364798/2-A</u>
Matrix: <u>Solid</u>	Lab File ID: <u>x13334.D</u>
Analysis Method: <u>8270D</u>	Date Collected: _____
Extract. Method: <u>3546</u>	Date Extracted: <u>04/26/2016 13:16</u>
Sample wt/vol: <u>15.0000 (g)</u>	Date Analyzed: <u>04/27/2016 05:59</u>
Con. Extract Vol.: <u>1 (mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1 (uL)</u>	Level: (low/med) <u>Low</u>
% Moisture: _____	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>364897</u>	Units: <u>ug/Kg</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
191-24-2	Benzo[g,h,i]perylene	2630		330	19
207-08-9	Benzo[k]fluoranthene	2400		33	14
111-91-1	Bis(2-chloroethoxy)methane	2360		330	10
111-44-4	Bis(2-chloroethyl)ether	2180		33	7.8
117-81-7	Bis(2-ethylhexyl) phthalate	2370		330	13
85-68-7	Butyl benzyl phthalate	2510		330	10
86-74-8	Carbazole	2530		330	8.2
218-01-9	Chrysene	2580		330	9.0
53-70-3	Dibenz(a,h)anthracene	2880		33	17
132-64-9	Dibenzofuran	2480		330	10
84-66-2	Diethyl phthalate	2610		330	9.4
131-11-3	Dimethyl phthalate	2570		330	9.6
84-74-2	Di-n-butyl phthalate	2580		330	9.9
117-84-0	Di-n-octyl phthalate	2360		330	17
206-44-0	Fluoranthene	2600		330	9.8
86-73-7	Fluorene	2560		330	7.2
118-74-1	Hexachlorobenzene	2700		33	13
87-68-3	Hexachlorobutadiene	2330		67	9.3
77-47-4	Hexachlorocyclopentadiene	2690		330	21
67-72-1	Hexachloroethane	2160		33	12
193-39-5	Indeno[1,2,3-cd]pyrene	2990		33	22
78-59-1	Isophorone	2450		130	7.1
91-20-3	Naphthalene	2290		330	8.4
98-95-3	Nitrobenzene	2240		33	10
621-64-7	N-Nitrosodi-n-propylamine	2440		33	11
86-30-6	N-Nitrosodiphenylamine	2510		330	30
87-86-5	Pentachlorophenol	5210		270	40
85-01-8	Phenanthrene	2490		330	8.8
108-95-2	Phenol	2310		330	11
129-00-0	Pyrene	2490		330	15

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Edison</u>	Job No.: <u>460-112518-1</u>
SDG No.: _____	
Client Sample ID: _____	Lab Sample ID: <u>LCS 460-364798/2-A</u>
Matrix: <u>Solid</u>	Lab File ID: <u>x13334.D</u>
Analysis Method: <u>8270D</u>	Date Collected: _____
Extract. Method: <u>3546</u>	Date Extracted: <u>04/26/2016 13:16</u>
Sample wt/vol: <u>15.0000 (g)</u>	Date Analyzed: <u>04/27/2016 05:59</u>
Con. Extract Vol.: <u>1 (mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1 (uL)</u>	Level: (low/med) <u>Low</u>
% Moisture: _____	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>364897</u>	Units: <u>ug/Kg</u>

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol (Surr)	87		10-95
321-60-8	2-Fluorobiphenyl	67		27-84
367-12-4	2-Fluorophenol (Surr)	63		21-84
4165-60-0	Nitrobenzene-d5 (Surr)	65		28-92
4165-62-2	Phenol-d5 (Surr)	61		22-88
1718-51-0	Terphenyl-d14 (Surr)	74		16-114

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS5\20160427-40331.b\13334.D
 Lims ID: LCS 460-364798/2-A
 Client ID:
 Sample Type: LCS
 Inject. Date: 27-Apr-2016 05:59:30 ALS Bottle#: 5 Worklist Smp#: 5
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 460-0040331-005
 Operator ID: Instrument ID: CBNAMS5
 Method: \\ChromNA\Edison\ChromData\CBNAMS5\20160427-40331.b\8270_5R.m
 Limit Group: SV 8270D ICAL
 Last Update: 27-Apr-2016 13:35:08 Calib Date: 18-Apr-2016 15:17:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS5\20160418-39964.b\12973.D
 Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK049

First Level Reviewer: szczecha

Date: 27-Apr-2016 13:35:07

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	1.404	1.287	0.117	97	338617	50.0	21.1	
2 N-Nitrosodimethylamine	74	1.604	1.510	0.094	72	725763	50.0	34.8	
3 Pyridine	79	1.616	1.522	0.094	84	1028637	50.0	28.4	
\$ 4 2-Fluorophenol	112	2.634	2.598	0.036	95	1310622	50.0	31.7	
8 Aniline	93	3.528	3.522	0.006	96	1735309	50.0	32.8	
\$ 6 Phenol-d5	99	3.534	3.540	-0.006	90	1449461	50.0	30.6	
7 Phenol	94	3.545	3.551	-0.006	98	1665494	50.0	34.7	
9 Bis(2-chloroethyl)ether	93	3.604	3.610	-0.006	95	1136398	50.0	32.6	
10 Benzonitrile	103	3.610	3.622	-0.012	63	2580543	NC	NC	
11 2-Chlorophenol	128	3.651	3.651	0.000	96	1379033	50.0	34.0	
12 n-Decane	43	3.722	3.722	0.000	90	1377892	50.0	28.9	
13 1,3-Dichlorobenzene	146	3.792	3.792	0.000	96	1709903	50.0	33.8	
* 14 1,4-Dichlorobenzene-d4	152	3.851	3.846	0.005	96	1224399	40.0	40.0	
15 1,4-Dichlorobenzene	146	3.869	3.869	0.000	95	1703632	50.0	34.2	
16 Benzyl alcohol	108	4.016	4.022	-0.006	94	904874	50.0	37.5	
17 1,2-Dichlorobenzene	146	4.022	4.022	0.000	96	1550129	50.0	33.5	
18 2-Methylphenol	108	4.157	4.157	0.000	88	1180670	50.0	34.4	
19 2,2'-oxybis[1-chloropropan	45	4.157	4.157	0.000	89	1682487	50.0	33.2	
20 N-Methylaniline	106	4.269	4.275	-0.006	88	2029754	NC	NC	
21 Acetophenone	105	4.281	4.287	-0.006	96	1572728	50.0	35.4	
22 N-Nitrosodi-n-propylamine	70	4.298	4.304	-0.006	93	847948	50.0	36.6	
23 3 & 4 Methylphenol	108	4.322	4.328	-0.006	95	1246435	50.0	36.5	
24 4-Methylphenol	108	4.322	4.328	-0.006	92	1246435	50.0	36.5	
25 Hexachloroethane	117	4.357	4.363	-0.006	88	581939	50.0	32.4	
\$ 26 Nitrobenzene-d5	82	4.428	4.434	-0.006	92	1361360	50.0	32.6	
28 Nitrobenzene	77	4.451	4.457	-0.006	88	1742977	50.0	33.5	
27 n,n'-Dimethylaniline	120	4.451	4.457	-0.006	92	2124150	50.0	36.9	
31 Isophorone	82	4.704	4.710	-0.006	98	2341928	50.0	36.7	
32 2-Nitrophenol	139	4.769	4.769	0.000	88	774118	50.0	35.2	
33 2,4-Dimethylphenol	122	4.851	4.857	-0.006	90	1179216	50.0	33.4	
34 Bis(2-chloroethoxy)methane	93	4.934	4.939	-0.005	100	1315882	50.0	35.3	
36 2,4-Dichlorophenol	162	5.028	5.028	0.000	96	1198509	50.0	33.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
35 Benzoic acid	122	5.034	5.045	-0.011	91	740248	50.0	42.1	
37 1,2,4-Trichlorobenzene	180	5.098	5.098	0.000	94	1424050	50.0	34.3	
* 38 Naphthalene-d8	136	5.145	5.140	0.005	99	4297650	40.0	40.0	
39 Naphthalene	128	5.169	5.169	0.000	100	3821719	50.0	34.3	
40 4-Chloroaniline	127	5.245	5.245	0.000	96	1134873	50.0	26.9	
41 Hexachlorobutadiene	225	5.310	5.310	0.000	97	956720	50.0	35.0	
43 4-Chloro-3-methylphenol	107	5.763	5.757	0.006	96	1034764	50.0	36.6	
44 2-Methylnaphthalene	142	5.869	5.869	0.000	86	2584489	50.0	34.2	
45 1-Methylnaphthalene	142	5.963	5.963	0.000	93	2426117	50.0	37.6	
46 Hexachlorocyclopentadiene	237	6.033	6.033	0.000	98	1021589	50.0	40.4	
47 1,2,4,5-Tetrachlorobenzene	216	6.039	6.039	0.000	97	1352400	50.0	35.3	
48 2-tertbutyl-4-methylphenol	149	6.110	6.110	0.000	91	1860703	50.0	38.2	
49 2,4,6-Trichlorophenol	196	6.163	6.163	0.000	91	847235	50.0	38.1	
50 2,4,5-Trichlorophenol	196	6.198	6.198	0.000	97	834397	50.0	35.5	
\$ 51 2-Fluorobiphenyl	172	6.245	6.245	0.000	98	2939184	50.0	33.7	
52 1,1'-Biphenyl	154	6.339	6.339	0.000	95	3087277	50.0	35.4	
53 2-Chloronaphthalene	162	6.345	6.351	-0.006	98	2359184	50.0	35.2	
54 Phenyl ether	170	6.445	6.445	0.000	84	1803825	50.0	37.3	
56 2-Nitroaniline	65	6.463	6.469	-0.006	96	749271	50.0	38.2	
57 1,3-Dimethylnaphthalene	156	6.569	6.569	0.000	93	2087126	50.0	38.4	
59 Coumarin	146	6.663	6.663	0.000	79	813735	50.0	42.5	
58 Dimethyl phthalate	163	6.669	6.669	0.000	99	2398718	50.0	38.6	
60 2,6-Dinitrotoluene	165	6.716	6.716	0.000	94	552253	50.0	37.8	
61 Acenaphthylene	152	6.751	6.751	0.000	97	3497064	50.0	37.1	
64 3-Nitroaniline	138	6.875	6.875	0.000	95	405010	50.0	27.1	
* 65 Acenaphthene-d10	164	6.892	6.887	0.005	91	2226481	40.0	40.0	
67 Acenaphthene	154	6.928	6.928	0.000	92	2201721	50.0	38.2	
66 3,5-di-tert-butyl-4-hydrox	205	6.951	6.951	0.000	95	2773320	50.0	40.3	
68 2,4-Dinitrophenol	184	6.986	6.992	-0.006	95	662323	100.0	80.4	
69 4-Nitrophenol	65	7.080	7.086	-0.006	88	743444	100.0	84.5	
71 Dibenzofuran	168	7.098	7.098	0.000	96	3223686	50.0	37.1	
70 2,4-Dinitrotoluene	165	7.110	7.110	0.000	95	666907	50.0	39.9	
72 2,3,4,6-Tetrachlorophenol	232	7.233	7.233	0.000	98	689267	50.0	39.8	
73 Diethyl phthalate	149	7.363	7.363	0.000	99	2234011	50.0	39.1	
87 n-Octadecane	57	7.392	7.392	0.000	97	1440949	50.0	38.3	
75 Fluorene	166	7.433	7.433	0.000	96	2450276	50.0	38.4	
74 4-Chlorophenyl phenyl ethe	204	7.445	7.445	0.000	94	1321556	50.0	38.8	
76 4-Nitroaniline	138	7.475	7.480	-0.005	84	443027	50.0	36.5	
77 4,6-Dinitro-2-methylphenol	198	7.516	7.522	-0.006	88	820800	100.0	77.2	
78 N-Nitrosodiphenylamine	169	7.563	7.569	-0.006	66	1776659	50.0	37.6	
79 1,2-Diphenylhydrazine	77	7.598	7.598	0.000	96	1973181	50.0	37.6	
\$ 80 2,4,6-Tribromophenol	330	7.669	7.669	0.000	90	580602	50.0	43.4	
81 4-Bromophenyl phenyl ether	248	7.916	7.916	0.000	94	820765	50.0	38.8	
83 Hexachlorobenzene	284	7.975	7.975	0.000	94	998683	50.0	40.5	
85 Pentachlorophenol	266	8.175	8.175	0.000	95	1037237	100.0	78.1	
86 Pentachloronitrobenzene	237	8.186	8.186	0.000	91	394322	50.0	45.0	
* 88 Phenanthrene-d10	188	8.339	8.334	0.005	97	3054645	40.0	40.0	
89 Phenanthrene	178	8.363	8.363	0.000	96	3145107	50.0	37.4	
90 Anthracene	178	8.410	8.410	0.000	99	3268211	50.0	38.9	
91 Carbazole	167	8.580	8.580	0.000	96	2494408	50.0	38.0	
92 Di-n-butyl phthalate	149	8.951	8.951	0.000	100	3035451	50.0	38.8	
93 Fluoranthene	202	9.516	9.516	0.000	99	2871089	50.0	39.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
94 Benzidine	184	9.663	9.669	-0.006	99	833959	50.0	24.4	
95 Pyrene	202	9.733	9.733	0.000	99	2851797	50.0	37.4	
82 Bisphenol-A	213	9.816	9.816	0.000	99	506559	25.0	19.4	
\$ 96 Terphenyl-d14	244	9.910	9.910	0.000	98	2138718	50.0	37.1	
97 Butyl benzyl phthalate	149	10.410	10.404	0.006	95	1011681	50.0	37.7	
99 Carbamazepine	193	10.492	10.492	0.000	90	859761	50.0	46.4	
100 3,3'-Dichlorobenzidine	252	10.927	10.933	-0.006	98	566031	50.0	26.6	
101 Benzo[a]anthracene	228	10.939	10.939	0.000	97	2301616	50.0	38.5	
* 102 Chrysene-d12	240	10.951	10.951	0.000	98	2020614	40.0	40.0	
103 Chrysene	228	10.980	10.980	0.000	99	2049967	50.0	38.7	
104 Bis(2-ethylhexyl) phthalat	149	11.033	11.033	0.000	87	1299388	50.0	35.5	
105 Di-n-octyl phthalate	149	11.798	11.798	0.000	97	2042283	50.0	35.4	
106 Benzo[b]fluoranthene	252	12.198	12.198	0.000	97	1958595	50.0	40.7	
107 Benzo[k]fluoranthene	252	12.233	12.233	0.000	97	1858314	50.0	36.0	
108 Benzo[a]pyrene	252	12.598	12.598	0.000	99	1706794	50.0	39.4	
* 109 Perylene-d12	264	12.668	12.669	-0.001	99	1695399	40.0	40.0	
110 Indeno[1,2,3-cd]pyrene	276	14.027	14.027	0.000	97	1615611	50.0	44.9	
111 Dibenz(a,h)anthracene	278	14.062	14.062	0.000	100	1615107	50.0	43.2	
112 Benzo[g,h,i]perylene	276	14.356	14.356	0.000	96	1583058	50.0	39.4	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

SM_ISTD_00105

Amount Added: 20.00

Units: uL

Run Reagent

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CBNAMS5\\20160427-40331.b\\x13334.D

Injection Date: 27-Apr-2016 05:59:30

Instrument ID: CBNAMS5

Operator ID:

Lims ID: LCS 460-364798/2-A

Worklist Smp#: 5

Client ID:

Injection Vol: 1.0 ul

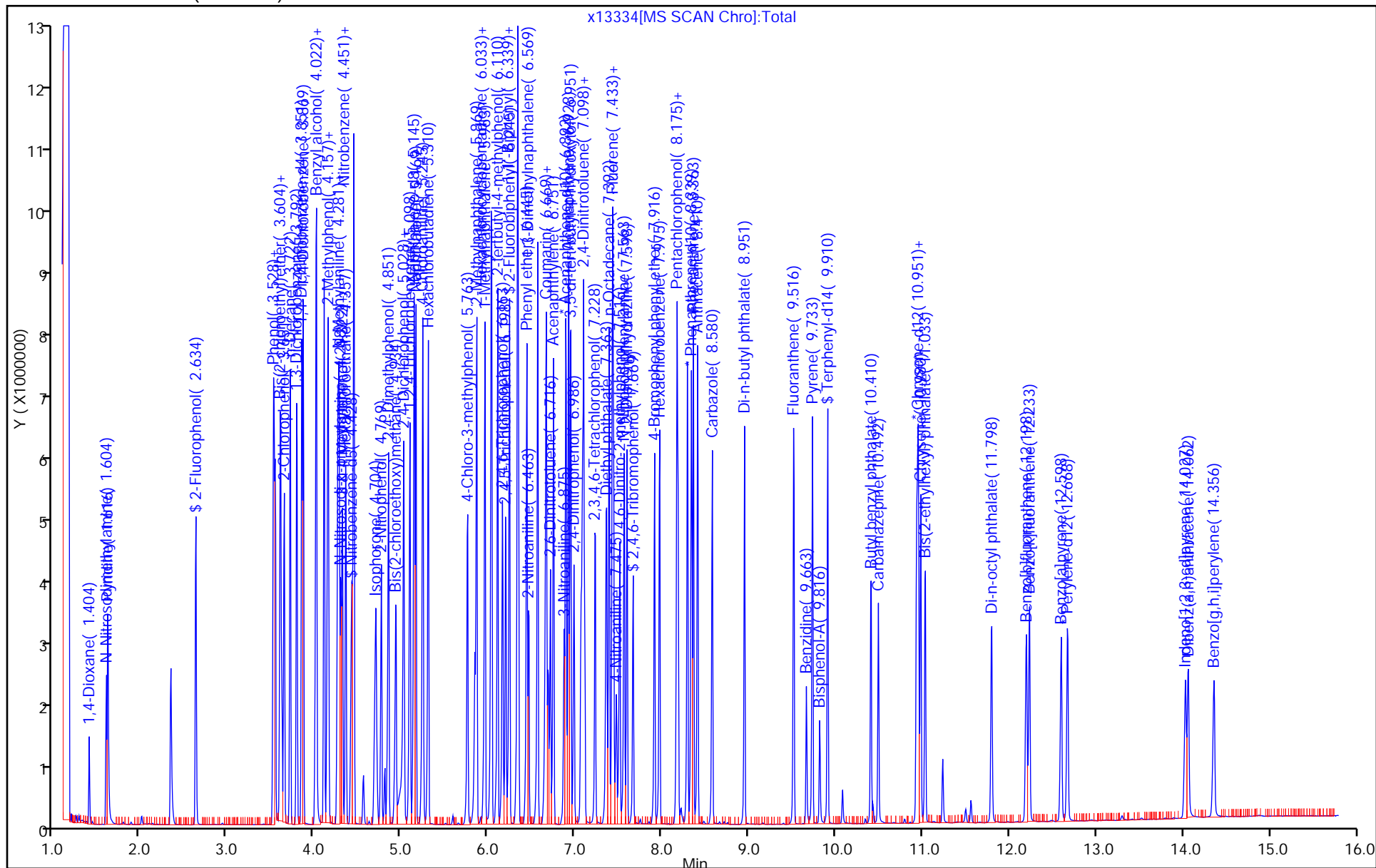
Dil. Factor: 1.0000

ALS Bottle#: 5

Method: 8270_5R

Limit Group: SV 8270D ICAL

Column: Rtxi-5Sil MS (0.25 mm)



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-112518-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 460-364798/3-A
 Matrix: Solid Lab File ID: x13335.D
 Analysis Method: 8270D Date Collected: _____
 Extract. Method: 3546 Date Extracted: 04/26/2016 13:16
 Sample wt/vol: 15.0000 (g) Date Analyzed: 04/27/2016 06:23
 Con. Extract Vol.: 1 (mL) Dilution Factor: 1
 Injection Volume: 1 (uL) Level: (low/med) Low
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 364897 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1912-24-9	Atrazine	5730		130	15
100-52-7	Benzaldehyde	4110		330	25
105-60-2	Caprolactam	6730		330	24

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol (Surr)	87		10-95
321-60-8	2-Fluorobiphenyl	70		27-84
367-12-4	2-Fluorophenol (Surr)	68		21-84
4165-60-0	Nitrobenzene-d5 (Surr)	72		28-92
4165-62-2	Phenol-d5 (Surr)	70		22-88
1718-51-0	Terphenyl-d14 (Surr)	81		16-114

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS5\20160427-40331.b\13335.D
 Lims ID: LCS 460-364798/3-A
 Client ID:
 Sample Type: LCS
 Inject. Date: 27-Apr-2016 06:23:30 ALS Bottle#: 6 Worklist Smp#: 6
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 460-0040331-006
 Operator ID: Instrument ID: CBNAMS5
 Method: \\ChromNA\Edison\ChromData\CBNAMS5\20160427-40331.b\8270_5R.m
 Limit Group: SV 8270D ICAL
 Last Update: 27-Apr-2016 13:35:08 Calib Date: 18-Apr-2016 15:17:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS5\20160418-39964.b\12973.D
 Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK049

First Level Reviewer: szczecha

Date: 27-Apr-2016 13:35:19

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
\$ 4 2-Fluorophenol	112	2.634	2.598	0.036	95	1253118	50.0	34.0	
5 Benzaldehyde	77	3.416	3.399	0.017	90	1877593	100.0	61.7	
\$ 6 Phenol-d5	99	3.516	3.540	-0.024	87	1489440	50.0	35.2	
* 14 1,4-Dichlorobenzene-d4	152	3.851	3.846	0.005	96	1094121	40.0	40.0	
\$ 26 Nitrobenzene-d5	82	4.416	4.434	-0.018	92	1385460	50.0	35.9	
* 38 Naphthalene-d8	136	5.140	5.140	0.000	99	3973162	40.0	40.0	
42 Caprolactam	113	5.604	5.587	0.017	89	771003	100.0	101.0	
\$ 51 2-Fluorobiphenyl	172	6.240	6.245	-0.005	98	3060903	50.0	34.8	
* 65 Acenaphthene-d10	164	6.887	6.887	0.000	91	2240548	40.0	40.0	
\$ 80 2,4,6-Tribromophenol	330	7.663	7.669	-0.006	90	588962	50.0	43.7	
84 Atrazine	200	8.116	8.110	0.006	95	1387669	100.0	86.0	
* 88 Phenanthrene-d10	188	8.339	8.334	0.005	97	3159374	40.0	40.0	
\$ 96 Terphenyl-d14	244	9.910	9.910	0.000	98	2299982	50.0	40.7	
* 102 Chrysene-d12	240	10.945	10.951	-0.006	98	1978688	40.0	40.0	
* 109 Perylene-d12	264	12.669	12.669	-0.001	99	1619106	40.0	40.0	

Reagents:

SM_ISTD_00105 Amount Added: 20.00 Units: uL Run Reagent

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CBNAMS5\\20160427-40331.b\\x13335.D

Injection Date: 27-Apr-2016 06:23:30

Instrument ID: CBNAMS5

Operator ID:

Lims ID: LCS 460-364798/3-A

Worklist Smp#: 6

Client ID:

Injection Vol: 1.0 ul

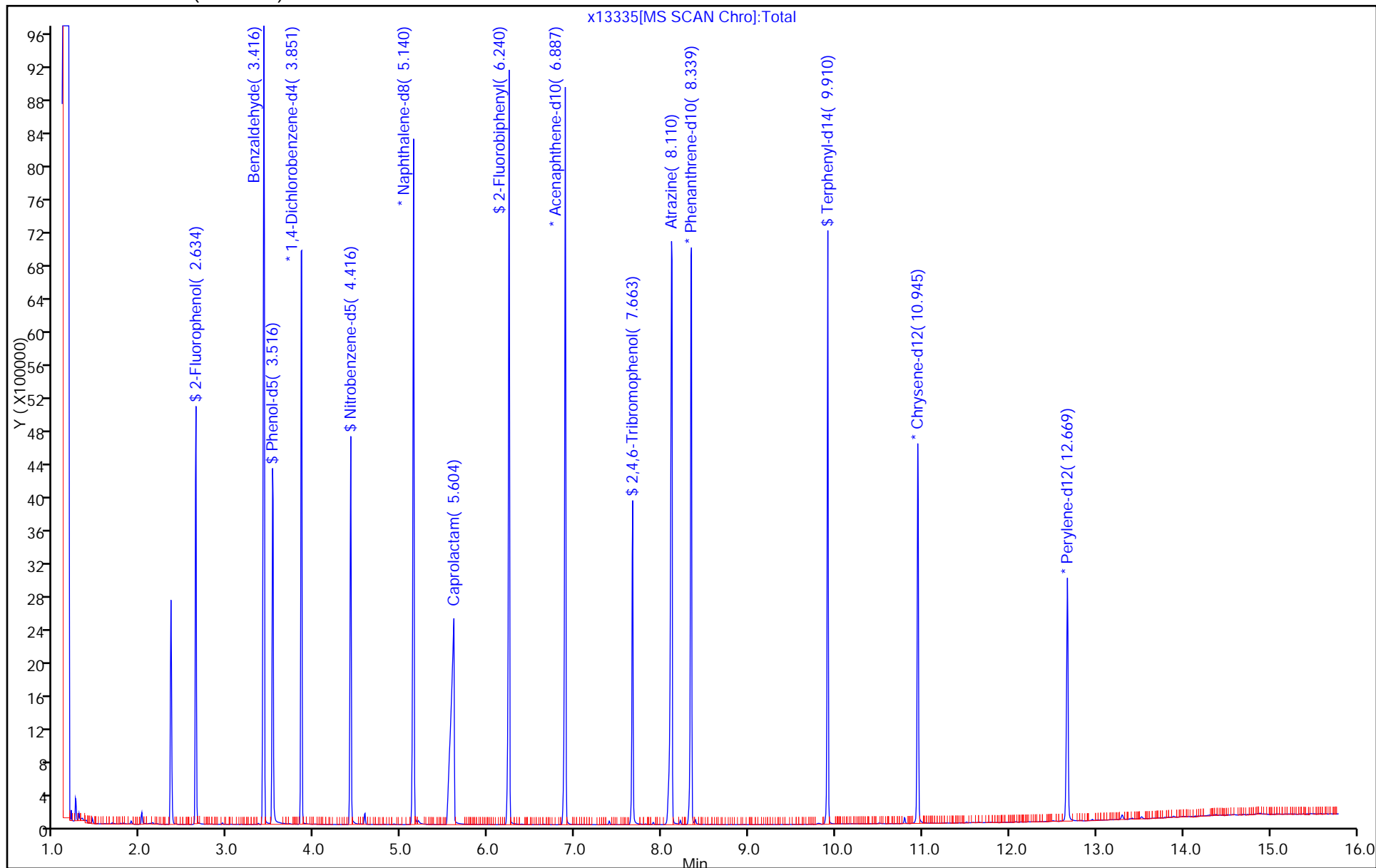
Dil. Factor: 1.0000

ALS Bottle#: 6

Method: 8270_5R

Limit Group: SV 8270D ICAL

Column: Rtxi-5Sil MS (0.25 mm)



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Edison</u>	Job No.: <u>460-112518-1</u>
SDG No.: _____	
Client Sample ID: _____	Lab Sample ID: <u>460-112310-A-6-A MS</u>
Matrix: <u>Solid</u>	Lab File ID: <u>x13351.D</u>
Analysis Method: <u>8270D</u>	Date Collected: <u>04/14/2016 13:27</u>
Extract. Method: <u>3546</u>	Date Extracted: <u>04/26/2016 13:16</u>
Sample wt/vol: <u>15.0231(g)</u>	Date Analyzed: <u>04/27/2016 12:31</u>
Con. Extract Vol.: <u>1(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	Level: (low/med) <u>Low</u>
% Moisture: <u>10.0</u>	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>364897</u>	Units: <u>ug/Kg</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	1,1'-Biphenyl	2420		370	31
95-94-3	1,2,4,5-Tetrachlorobenzene	2330		370	27
108-60-1	2,2'-oxybis[1-chloropropane]	2010		370	15
58-90-2	2,3,4,6-Tetrachlorophenol	1800		370	34
95-95-4	2,4,5-Trichlorophenol	1770		370	36
88-06-2	2,4,6-Trichlorophenol	2190		150	10
120-83-2	2,4-Dichlorophenol	1880		150	8.7
105-67-9	2,4-Dimethylphenol	2100		370	81
51-28-5	2,4-Dinitrophenol	403		300	280
121-14-2	2,4-Dinitrotoluene	2710		74	15
606-20-2	2,6-Dinitrotoluene	2580		74	20
91-58-7	2-Chloronaphthalene	2340		370	8.3
95-57-8	2-Chlorophenol	1920		370	9.3
91-57-6	2-Methylnaphthalene	2080		370	8.1
95-48-7	2-Methylphenol	1940		370	16
88-74-4	2-Nitroaniline	2670		370	12
88-75-5	2-Nitrophenol	1940		370	12
91-94-1	3,3'-Dichlorobenzidine	1600		150	41
99-09-2	3-Nitroaniline	1870		370	11
534-52-1	4,6-Dinitro-2-methylphenol	1090		300	98
101-55-3	4-Bromophenyl phenyl ether	2520		370	12
59-50-7	4-Chloro-3-methylphenol	2080		370	16
106-47-8	4-Chloroaniline	1180		370	9.4
7005-72-3	4-Chlorophenyl phenyl ether	2480		370	11
106-44-5	4-Methylphenol	2090		370	10
100-01-6	4-Nitroaniline	1670		370	14
100-02-7	4-Nitrophenol	4520		740	180
83-32-9	Acenaphthene	2460		370	8.9
208-96-8	Acenaphthylene	2420		370	9.4
98-86-2	Acetophenone	2030		370	8.0
120-12-7	Anthracene	2520		370	35
1912-24-9	Atrazine	5850		150	16
100-52-7	Benzaldehyde	3230		370	28
56-55-3	Benzo[a]anthracene	2590		37	31

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Edison</u>	Job No.: <u>460-112518-1</u>
SDG No.: _____	
Client Sample ID: _____	Lab Sample ID: <u>460-112310-A-6-A MS</u>
Matrix: <u>Solid</u>	Lab File ID: <u>x13351.D</u>
Analysis Method: <u>8270D</u>	Date Collected: <u>04/14/2016 13:27</u>
Extract. Method: <u>3546</u>	Date Extracted: <u>04/26/2016 13:16</u>
Sample wt/vol: <u>15.0231(g)</u>	Date Analyzed: <u>04/27/2016 12:31</u>
Con. Extract Vol.: <u>1(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	Level: (low/med) <u>Low</u>
% Moisture: <u>10.0</u>	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>364897</u>	Units: <u>ug/Kg</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
50-32-8	Benzo[a]pyrene	2660		37	11
205-99-2	Benzo[b]fluoranthene	2620		37	14
191-24-2	Benzo[g,h,i]perylene	2880		370	21
207-08-9	Benzo[k]fluoranthene	2110		37	16
111-91-1	Bis(2-chloroethoxy)methane	2240		370	11
111-44-4	Bis(2-chloroethyl)ether	1910		37	8.7
117-81-7	Bis(2-ethylhexyl) phthalate	2330		370	14
85-68-7	Butyl benzyl phthalate	2350		370	11
105-60-2	Caprolactam	2980		370	26
86-74-8	Carbazole	2330		370	9.1
218-01-9	Chrysene	2660		370	10
53-70-3	Dibenz(a,h)anthracene	3060		37	19
132-64-9	Dibenzofuran	2440		370	11
84-66-2	Diethyl phthalate	2760		370	10
131-11-3	Dimethyl phthalate	2790		370	11
84-74-2	Di-n-butyl phthalate	2660		370	11
117-84-0	Di-n-octyl phthalate	1680		370	19
206-44-0	Fluoranthene	2780		370	11
86-73-7	Fluorene	2430		370	8.0
118-74-1	Hexachlorobenzene	2330		37	15
87-68-3	Hexachlorobutadiene	2120		74	10
77-47-4	Hexachlorocyclopentadiene	1040		370	23
67-72-1	Hexachloroethane	1840		37	13
193-39-5	Indeno[1,2,3-cd]pyrene	3300		37	24
78-59-1	Isophorone	2350		150	7.9
91-20-3	Naphthalene	2130		370	9.3
98-95-3	Nitrobenzene	2170		37	12
621-64-7	N-Nitrosodi-n-propylamine	2220		37	12
86-30-6	N-Nitrosodiphenylamine	2560		370	33
87-86-5	Pentachlorophenol	2100		300	44
85-01-8	Phenanthrene	2540		370	9.8
108-95-2	Phenol	1900		370	12
129-00-0	Pyrene	2370		370	17

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Edison</u>	Job No.: <u>460-112518-1</u>
SDG No.: _____	
Client Sample ID: _____	Lab Sample ID: <u>460-112310-A-6-A MS</u>
Matrix: <u>Solid</u>	Lab File ID: <u>x13351.D</u>
Analysis Method: <u>8270D</u>	Date Collected: <u>04/14/2016 13:27</u>
Extract. Method: <u>3546</u>	Date Extracted: <u>04/26/2016 13:16</u>
Sample wt/vol: <u>15.0231(g)</u>	Date Analyzed: <u>04/27/2016 12:31</u>
Con. Extract Vol.: <u>1(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	Level: (low/med) <u>Low</u>
% Moisture: <u>10.0</u>	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>364897</u>	Units: <u>ug/Kg</u>

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol (Surr)	61		10-95
321-60-8	2-Fluorobiphenyl	63		27-84
367-12-4	2-Fluorophenol (Surr)	49		21-84
4165-60-0	Nitrobenzene-d5 (Surr)	57		28-92
4165-62-2	Phenol-d5 (Surr)	48		22-88
1718-51-0	Terphenyl-d14 (Surr)	56		16-114

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS5\20160427-40331.b\13351.D

Lims ID: 460-112310-A-6-A MS

Client ID:

Sample Type: MS

Inject. Date: 27-Apr-2016 12:31:30

ALS Bottle#:

22

Worklist Smp#:

22

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Sample Info: 460-0040331-022

Operator ID:

Instrument ID:

CBNAMS5

Method: \\ChromNA\Edison\ChromData\CBNAMS5\20160427-40331.b\8270_5R.m

Limit Group: SV 8270D ICAL

Last Update: 27-Apr-2016 13:49:45

Calib Date:

18-Apr-2016 15:17:30

Integrator: RTE

ID Type:

Deconvolution ID

Quant Method: Internal Standard

Quant By:

Initial Calibration

Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS5\20160418-39964.b\12973.D

Column 1 : Rtxi-5Sil MS (0.25 mm)

Det: MS SCAN

Process Host: XAWRK049

First Level Reviewer: szczech

Date:

27-Apr-2016 13:49:45

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	1.387	1.293	0.094	97	252779	50.0	20.4	
2 N-Nitrosodimethylamine	74	1.587	1.516	0.071	69	488167	50.0	30.3	
3 Pyridine	79	1.605	1.528	0.077	83	556567	50.0	19.9	
\$ 4 2-Fluorophenol	112	2.646	2.604	0.042	95	787778	50.0	24.7	
5 Benzaldehyde	77	3.416	3.404	0.012	90	1148476	100.0	43.7	
8 Aniline	93	3.528	3.528	0.000	85	687667	50.0	16.9	
\$ 6 Phenol-d5	99	3.528	3.540	-0.012	88	874214	50.0	23.9	
7 Phenol	94	3.546	3.551	-0.005	99	953829	50.0	25.7	
9 Bis(2-chloroethyl)ether	93	3.604	3.610	-0.006	96	694173	50.0	25.8	
10 Benzonitrile	103	3.610	3.628	-0.018	67	1570086	NC	NC	
11 2-Chlorophenol	128	3.651	3.651	0.000	95	812871	50.0	26.0	
12 n-Decane	43	3.716	3.722	-0.006	95	932774	50.0	25.4	
13 1,3-Dichlorobenzene	146	3.799	3.798	0.001	97	1039900	50.0	26.6	
* 14 1,4-Dichlorobenzene-d4	152	3.851	3.851	0.000	97	945340	40.0	40.0	
15 1,4-Dichlorobenzene	146	3.869	3.875	-0.006	95	1053156	50.0	27.4	
16 Benzyl alcohol	108	4.016	4.028	-0.012	92	554102	50.0	29.7	
17 1,2-Dichlorobenzene	146	4.022	4.028	-0.006	95	948492	50.0	26.5	
18 2-Methylphenol	108	4.151	4.163	-0.012	88	693635	50.0	26.2	
19 2,2'-oxybis[1-chloropropan	45	4.157	4.163	-0.006	90	1061014	50.0	27.2	
20 N-Methylaniline	106	4.269	4.269	-0.006	97	1142384	NC	NC	
21 Acetophenone	105	4.275	4.292	-0.017	95	939657	50.0	27.4	
22 N-Nitrosodi-n-propylamine	70	4.293	4.304	-0.011	93	537819	50.0	30.1	
23 3 & 4 Methylphenol	108	4.316	4.328	-0.012	96	745398	50.0	28.2	
24 4-Methylphenol	108	4.316	4.328	-0.012	93	745398	50.0	28.2	
25 Hexachloroethane	117	4.357	4.363	-0.006	88	344699	50.0	24.9	
\$ 26 Nitrobenzene-d5	82	4.422	4.434	-0.012	92	812811	50.0	28.3	
28 Nitrobenzene	77	4.446	4.457	-0.011	89	1050031	50.0	29.4	
27 n,n'-Dimethylaniline	120	4.451	4.463	-0.012	92	1258863	50.0	28.3	
31 Isophorone	82	4.693	4.710	-0.017	98	1390131	50.0	31.7	
32 2-Nitrophenol	139	4.769	4.775	-0.006	89	395584	50.0	26.2	
33 2,4-Dimethylphenol	122	4.846	4.857	-0.011	91	687620	50.0	28.4	
34 Bis(2-chloroethoxy)methane	93	4.934	4.939	-0.005	100	775798	50.0	30.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
29 2-Toluidine	107	4.993	4.968	0.025	2	2497		NC	
36 2,4-Dichlorophenol	162	5.022	5.034	-0.012	95	621011	50.0	25.5	
35 Benzoic acid	122	5.069	5.045	0.024	1	4226	50.0	3.12	
37 1,2,4-Trichlorobenzene	180	5.098	5.104	-0.006	94	794033	50.0	27.8	
* 38 Naphthalene-d8	136	5.145	5.145	0.000	99	2953126	40.0	40.0	
39 Naphthalene	128	5.163	5.169	-0.006	99	2207806	50.0	28.9	
40 4-Chloroaniline	127	5.240	5.251	-0.011	96	460701	50.0	15.9	
41 Hexachlorobutadiene	225	5.310	5.316	-0.006	97	539448	50.0	28.7	
42 Caprolactam	113	5.598	5.592	0.006	89	228712	100.0	40.3	
43 4-Chloro-3-methylphenol	107	5.769	5.763	0.006	97	545020	50.0	28.1	
44 2-Methylnaphthalene	142	5.863	5.869	-0.006	86	1458741	50.0	28.1	
45 1-Methylnaphthalene	142	5.963	5.963	0.000	93	1330970	50.0	30.0	
46 Hexachlorocyclopentadiene	237	6.034	6.034	0.000	96	210919	50.0	14.1	
47 1,2,4,5-Tetrachlorobenzene	216	6.040	6.045	-0.005	99	713519	50.0	31.5	
55 Benzidine_T	184	6.040	6.069	-0.029	51	3767		NC	
48 2-tertbutyl-4-methylphenol	149	6.110	6.110	0.000	91	982922	50.0	29.3	
49 2,4,6-Trichlorophenol	196	6.163	6.169	-0.006	90	389773	50.0	29.6	
50 2,4,5-Trichlorophenol	196	6.210	6.204	0.006	96	332644	50.0	23.9	
\$ 51 2-Fluorobiphenyl	172	6.245	6.245	0.000	98	1627982	50.0	31.5	
52 1,1'-Biphenyl	154	6.334	6.339	-0.005	95	1688929	50.0	32.7	
53 2-Chloronaphthalene	162	6.345	6.351	-0.006	99	1255903	50.0	31.7	
54 Phenyl ether	170	6.445	6.445	0.000	85	983357	50.0	34.4	
56 2-Nitroaniline	65	6.463	6.469	-0.006	97	419558	50.0	36.1	
57 1,3-Dimethylnaphthalene	156	6.569	6.569	0.000	92	1101463	50.0	34.2	
59 Coumarin	146	6.657	6.669	-0.012	81	453007	50.0	34.4	
58 Dimethyl phthalate	163	6.663	6.669	-0.006	100	1388809	50.0	37.8	
60 2,6-Dinitrotoluene	165	6.710	6.716	-0.006	95	301564	50.0	34.9	
61 Acenaphthylene	152	6.751	6.751	0.000	97	1827361	50.0	32.8	
64 3-Nitroaniline	138	6.869	6.875	-0.006	95	223480	50.0	25.3	
* 65 Acenaphthene-d10	164	6.892	6.886	0.006	91	1317327	40.0	40.0	
67 Acenaphthene	154	6.922	6.928	-0.006	92	1136881	50.0	33.3	
66 3,5-di-tert-butyl-4-hydrox	205	6.945	6.951	-0.006	96	1295121	50.0	31.8	
68 2,4-Dinitrophenol	184	6.981	6.992	-0.011	92	12942	100.0	5.46	
69 4-Nitrophenol	65	7.075	7.075	-0.011	88	318066	100.0	61.1	
71 Dibenzofuran	168	7.092	7.098	-0.006	97	1691910	50.0	32.9	
70 2,4-Dinitrotoluene	165	7.104	7.116	-0.012	96	361447	50.0	36.6	
72 2,3,4,6-Tetrachlorophenol	232	7.228	7.233	-0.005	96	249622	50.0	24.4	
73 Diethyl phthalate	149	7.357	7.363	-0.006	99	1258275	50.0	37.3	
87 n-Octadecane	57	7.392	7.392	0.000	97	758301	50.0	37.4	
75 Fluorene	166	7.428	7.433	-0.005	94	1243744	50.0	32.9	
74 4-Chlorophenyl phenyl ethe	204	7.439	7.445	-0.006	92	677679	50.0	33.6	
76 4-Nitroaniline	138	7.469	7.486	-0.017	84	161956	50.0	22.6	
77 4,6-Dinitro-2-methylphenol	198	7.504	7.522	-0.018	86	75191	100.0	14.7	
78 N-Nitrosodiphenylamine	169	7.563	7.575	-0.012	66	881203	50.0	34.6	
79 1,2-Diphenylhydrazine	77	7.592	7.604	-0.012	97	1012952	50.0	35.8	
\$ 80 2,4,6-Tribromophenol	330	7.669	7.675	-0.006	91	225072	50.0	30.5	
81 4-Bromophenyl phenyl ether	248	7.916	7.916	0.000	93	388898	50.0	34.1	
83 Hexachlorobenzene	284	7.969	7.975	-0.006	95	418608	50.0	31.5	
84 Atrazine	200	8.110	8.104	0.006	94	664158	100.0	79.1	
85 Pentachlorophenol	266	8.175	8.175	0.000	94	190659	100.0	28.4	
86 Pentachloronitrobenzene	237	8.181	8.186	-0.005	90	175257	50.0	37.1	
* 88 Phenanthrene-d10	188	8.339	8.333	0.006	97	1645474	40.0	40.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
89 Phenanthrene	178	8.363	8.363	0.000	96	1557264	50.0	34.4	
62 1-Naphthylamine	143	8.410	8.385	0.025	42	427		NC	
63 2-Naphthylamine	143	8.451	8.385	0.066	8	252		NC	
90 Anthracene	178	8.410	8.416	-0.006	99	1543407	50.0	34.1	
91 Carbazole	167	8.581	8.580	0.001	96	1114979	50.0	31.5	
92 Di-n-butyl phthalate	149	8.951	8.951	0.000	100	1518769	50.0	36.0	
93 Fluoranthene	202	9.516	9.522	-0.006	98	1491077	50.0	37.6	
95 Pyrene	202	9.733	9.733	0.000	98	1482012	50.0	32.0	
82 Bisphenol-A	213	9.822	9.822	0.000	99	266759	25.0	16.9	
\$ 96 Terphenyl-d14	244	9.910	9.910	0.000	98	973599	50.0	27.8	
97 Butyl benzyl phthalate	149	10.410	10.410	0.000	96	518433	50.0	31.8	
99 Carbamazepine	193	10.492	10.498	-0.006	90	404477	50.0	37.4	
100 3,3'-Dichlorobenzidine	252	10.933	10.933	0.000	97	278673	50.0	21.6	
101 Benzo[a]anthracene	228	10.945	10.945	0.000	97	1268854	50.0	35.0	
* 102 Chrysene-d12	240	10.957	10.951	0.006	98	1225655	40.0	40.0	
103 Chrysene	228	10.980	10.986	-0.006	99	1156369	50.0	36.0	
104 Bis(2-ethylhexyl) phthalat	149	11.033	11.033	0.000	87	699525	50.0	31.5	
105 Di-n-octyl phthalate	149	11.804	11.798	0.006	97	1166181	50.0	22.7	
106 Benzo[b]fluoranthene	252	12.204	12.198	0.006	97	1516837	50.0	35.4	
107 Benzo[k]fluoranthene	252	12.233	12.233	0.000	98	1307858	50.0	28.5	
108 Benzo[a]pyrene	252	12.604	12.604	0.000	98	1389311	50.0	36.0	
* 109 Perylene-d12	264	12.680	12.668	0.012	99	1508306	40.0	40.0	
110 Indeno[1,2,3-cd]pyrene	276	14.039	14.033	0.006	96	1429757	50.0	44.6	
111 Dibenz(a,h)anthracene	278	14.074	14.062	0.012	100	1375555	50.0	41.4	
112 Benzo[g,h,i]perylene	276	14.368	14.362	0.006	96	1394682	50.0	39.0	
S 119 Total Cresols	1				0			54.4	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

SM_ISTD_00105

Amount Added: 20.00

Units: uL

Run Reagent

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CBNAMS5\\20160427-40331.b\\x13351.D

Injection Date: 27-Apr-2016 12:31:30

Instrument ID: CBNAMS5

Operator ID:

Lims ID: 460-112310-A-6-A MS

Worklist Smp#: 22

Client ID:

Injection Vol: 1.0 ul

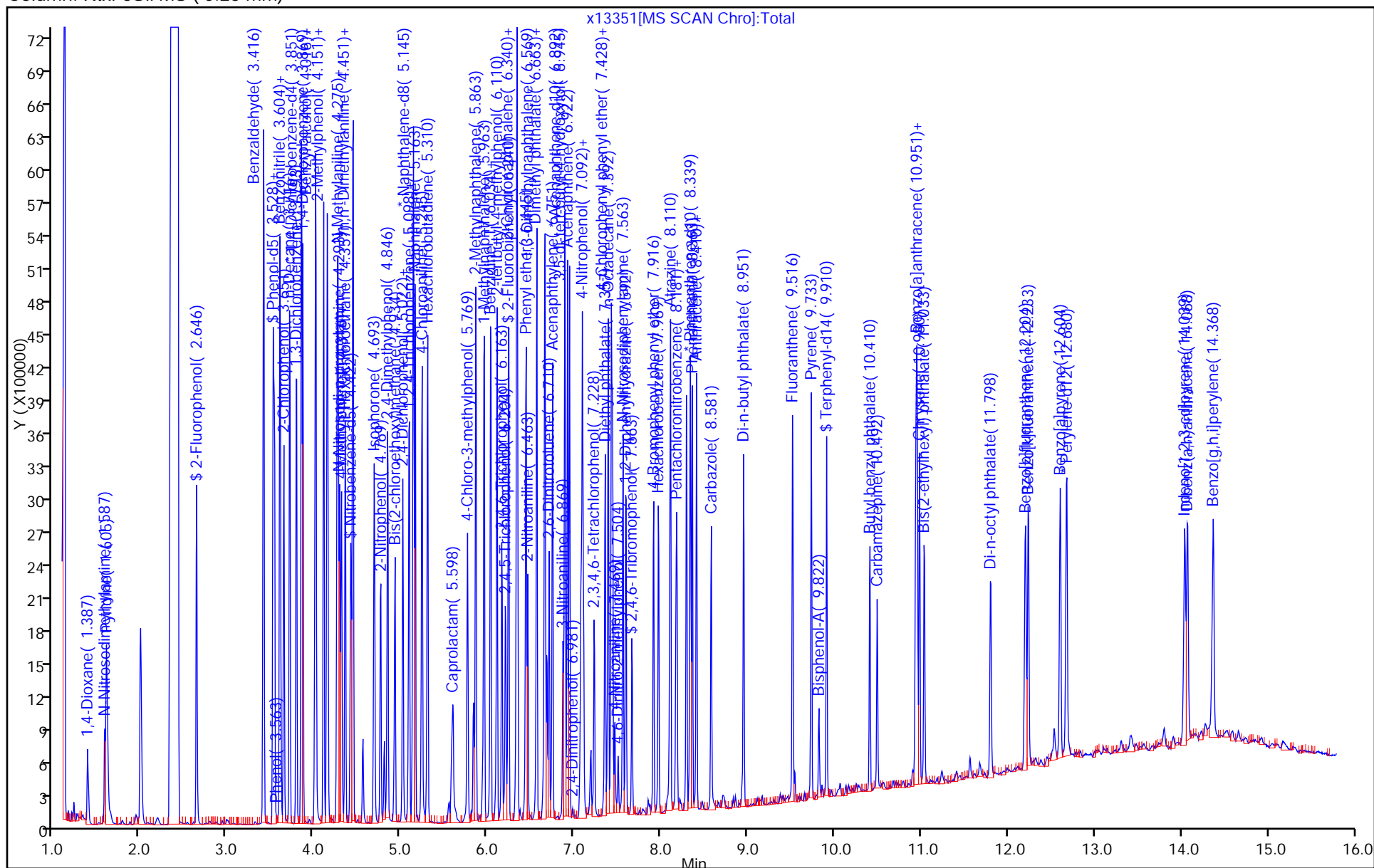
Dil. Factor: 1.0000

ALS Bottle#: 22

Method: 8270_5R

Limit Group: SV 8270D ICAL

Column: Rtxi-5Sil MS (0.25 mm)



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Edison</u>	Job No.: <u>460-112518-1</u>
SDG No.: _____	
Client Sample ID: _____	Lab Sample ID: <u>460-112310-A-6-B MSD</u>
Matrix: <u>Solid</u>	Lab File ID: <u>x13352.D</u>
Analysis Method: <u>8270D</u>	Date Collected: <u>04/14/2016 13:27</u>
Extract. Method: <u>3546</u>	Date Extracted: <u>04/26/2016 13:16</u>
Sample wt/vol: <u>15.0244(g)</u>	Date Analyzed: <u>04/27/2016 12:54</u>
Con. Extract Vol.: <u>1(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	Level: (low/med) <u>Low</u>
% Moisture: <u>10.0</u>	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>364897</u>	Units: <u>ug/Kg</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	1,1'-Biphenyl	2090		370	31
95-94-3	1,2,4,5-Tetrachlorobenzene	1980		370	27
108-60-1	2,2'-oxybis[1-chloropropane]	1670		370	15
58-90-2	2,3,4,6-Tetrachlorophenol	1630		370	34
95-95-4	2,4,5-Trichlorophenol	1620		370	36
88-06-2	2,4,6-Trichlorophenol	1950		150	10
120-83-2	2,4-Dichlorophenol	1660		150	8.7
105-67-9	2,4-Dimethylphenol	1840		370	81
51-28-5	2,4-Dinitrophenol	382		300	280
121-14-2	2,4-Dinitrotoluene	2250		74	15
606-20-2	2,6-Dinitrotoluene	2210		74	20
91-58-7	2-Chloronaphthalene	1990		370	8.3
95-57-8	2-Chlorophenol	1610		370	9.3
91-57-6	2-Methylnaphthalene	1790		370	8.1
95-48-7	2-Methylphenol	1620		370	16
88-74-4	2-Nitroaniline	2270		370	12
88-75-5	2-Nitrophenol	1720		370	12
91-94-1	3,3'-Dichlorobenzidine	1600		150	41
99-09-2	3-Nitroaniline	1750		370	11
534-52-1	4,6-Dinitro-2-methylphenol	807		300	98
101-55-3	4-Bromophenyl phenyl ether	2190		370	12
59-50-7	4-Chloro-3-methylphenol	1810		370	16
106-47-8	4-Chloroaniline	1070		370	9.4
7005-72-3	4-Chlorophenyl phenyl ether	2110		370	11
106-44-5	4-Methylphenol	1730		370	10
100-01-6	4-Nitroaniline	1670		370	14
100-02-7	4-Nitrophenol	4060		740	180
83-32-9	Acenaphthene	2120		370	8.9
208-96-8	Acenaphthylene	2060		370	9.4
98-86-2	Acetophenone	1640		370	8.0
120-12-7	Anthracene	2240		370	35
1912-24-9	Atrazine	5230		150	16
100-52-7	Benzaldehyde	2620		370	28
56-55-3	Benzo[a]anthracene	2230		37	31

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Edison</u>	Job No.: <u>460-112518-1</u>
SDG No.: _____	
Client Sample ID: _____	Lab Sample ID: <u>460-112310-A-6-B MSD</u>
Matrix: <u>Solid</u>	Lab File ID: <u>x13352.D</u>
Analysis Method: <u>8270D</u>	Date Collected: <u>04/14/2016 13:27</u>
Extract. Method: <u>3546</u>	Date Extracted: <u>04/26/2016 13:16</u>
Sample wt/vol: <u>15.0244(g)</u>	Date Analyzed: <u>04/27/2016 12:54</u>
Con. Extract Vol.: <u>1(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	Level: (low/med) <u>Low</u>
% Moisture: <u>10.0</u>	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>364897</u>	Units: <u>ug/Kg</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
50-32-8	Benzo[a]pyrene	2320		37	11
205-99-2	Benzo[b]fluoranthene	2220		37	14
191-24-2	Benzo[g,h,i]perylene	1990		370	21
207-08-9	Benzo[k]fluoranthene	2050		37	16
111-91-1	Bis(2-chloroethoxy)methane	1970		370	11
111-44-4	Bis(2-chloroethyl)ether	1610		37	8.7
117-81-7	Bis(2-ethylhexyl) phthalate	1980		370	14
85-68-7	Butyl benzyl phthalate	1910		370	11
105-60-2	Caprolactam	2950		370	26
86-74-8	Carbazole	2210		370	9.1
218-01-9	Chrysene	2430		370	10
53-70-3	Dibenz(a,h)anthracene	2220		37	19
132-64-9	Dibenzofuran	2050		370	11
84-66-2	Diethyl phthalate	2370		370	10
131-11-3	Dimethyl phthalate	2420		370	11
84-74-2	Di-n-butyl phthalate	2480		370	11
117-84-0	Di-n-octyl phthalate	1460		370	19
206-44-0	Fluoranthene	2620		370	11
86-73-7	Fluorene	2090		370	8.0
118-74-1	Hexachlorobenzene	2060		37	15
87-68-3	Hexachlorobutadiene	1810		74	10
77-47-4	Hexachlorocyclopentadiene	650		370	23
67-72-1	Hexachloroethane	1520		37	13
193-39-5	Indeno[1,2,3-cd]pyrene	2330		37	24
78-59-1	Isophorone	2070		150	7.9
91-20-3	Naphthalene	1830		370	9.3
98-95-3	Nitrobenzene	1890		37	12
621-64-7	N-Nitrosodi-n-propylamine	1820		37	12
86-30-6	N-Nitrosodiphenylamine	2270		370	33
87-86-5	Pentachlorophenol	2270		300	44
85-01-8	Phenanthrene	2240		370	9.8
108-95-2	Phenol	1570		370	12
129-00-0	Pyrene	1830		370	17

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Edison</u>	Job No.: <u>460-112518-1</u>
SDG No.: _____	
Client Sample ID: _____	Lab Sample ID: <u>460-112310-A-6-B MSD</u>
Matrix: <u>Solid</u>	Lab File ID: <u>x13352.D</u>
Analysis Method: <u>8270D</u>	Date Collected: <u>04/14/2016 13:27</u>
Extract. Method: <u>3546</u>	Date Extracted: <u>04/26/2016 13:16</u>
Sample wt/vol: <u>15.0244(g)</u>	Date Analyzed: <u>04/27/2016 12:54</u>
Con. Extract Vol.: <u>1(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	Level: (low/med) <u>Low</u>
% Moisture: <u>10.0</u>	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>364897</u>	Units: <u>ug/Kg</u>

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol (Surr)	53		10-95
321-60-8	2-Fluorobiphenyl	53		27-84
367-12-4	2-Fluorophenol (Surr)	40		21-84
4165-60-0	Nitrobenzene-d5 (Surr)	49		28-92
4165-62-2	Phenol-d5 (Surr)	39		22-88
1718-51-0	Terphenyl-d14 (Surr)	43		16-114

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS5\20160427-40331.b\13352.D
 Lims ID: 460-112310-A-6-B MSD
 Client ID:
 Sample Type: MSD
 Inject. Date: 27-Apr-2016 12:54:30 ALS Bottle#: 23 Worklist Smp#: 23
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 460-0040331-023
 Operator ID: Instrument ID: CBNAMS5
 Method: \\ChromNA\Edison\ChromData\CBNAMS5\20160427-40331.b\8270_5R.m
 Limit Group: SV 8270D ICAL
 Last Update: 27-Apr-2016 13:49:45 Calib Date: 18-Apr-2016 15:17:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS5\20160418-39964.b\12973.D
 Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK049

First Level Reviewer: szczech

Date: 27-Apr-2016 13:53:01

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	1.381	1.293	0.088	96	199510	50.0	17.1	
2 N-Nitrosodimethylamine	74	1.587	1.516	0.071	70	371794	50.0	24.6	
3 Pyridine	79	1.605	1.528	0.077	84	470462	50.0	17.9	
\$ 4 2-Fluorophenol	112	2.640	2.604	0.036	95	597728	50.0	20.0	
5 Benzaldehyde	77	3.416	3.404	0.012	89	872964	100.0	35.4	
8 Aniline	93	3.528	3.528	0.000	83	520953	50.0	13.6	
\$ 6 Phenol-d5	99	3.528	3.540	-0.012	89	665288	50.0	19.4	
7 Phenol	94	3.540	3.551	-0.011	98	737092	50.0	21.2	
9 Bis(2-chloroethyl)ether	93	3.599	3.610	-0.011	96	548976	50.0	21.7	
10 Benzonitrile	103	3.604	3.628	-0.024	67	1187087	NC	NC	
11 2-Chlorophenol	128	3.652	3.651	0.001	95	640835	50.0	21.8	
12 n-Decane	43	3.716	3.722	-0.006	92	750197	50.0	21.7	
13 1,3-Dichlorobenzene	146	3.793	3.798	-0.005	96	806186	50.0	22.0	
* 14 1,4-Dichlorobenzene-d4	152	3.852	3.851	0.001	97	887343	40.0	40.0	
15 1,4-Dichlorobenzene	146	3.869	3.875	-0.006	95	797080	50.0	22.1	
16 Benzyl alcohol	108	4.010	4.028	-0.018	93	422396	50.0	24.2	
17 1,2-Dichlorobenzene	146	4.022	4.028	-0.006	96	738359	50.0	22.0	
18 2-Methylphenol	108	4.151	4.163	-0.012	88	544178	50.0	21.9	
19 2,2'-oxybis[1-chloropropan	45	4.151	4.163	-0.012	90	827409	50.0	22.6	
20 N-Methylaniline	106	4.263	4.275	-0.012	91	882656	NC	NC	
21 Acetophenone	105	4.275	4.292	-0.017	95	714134	50.0	22.2	
22 N-Nitrosodi-n-propylamine	70	4.287	4.304	-0.017	94	414161	50.0	24.7	
23 3 & 4 Methylphenol	108	4.310	4.328	-0.018	95	580832	50.0	23.4	
24 4-Methylphenol	108	4.310	4.328	-0.018	92	580832	50.0	23.4	
25 Hexachloroethane	117	4.357	4.363	-0.006	88	267040	50.0	20.5	
\$ 26 Nitrobenzene-d5	82	4.422	4.434	-0.012	92	615958	50.0	24.4	
28 Nitrobenzene	77	4.440	4.457	-0.017	91	800393	50.0	25.5	
27 n,n'-Dimethylaniline	120	4.451	4.463	-0.012	92	966600	50.0	23.2	
31 Isophorone	82	4.693	4.710	-0.017	98	1076617	50.0	28.0	
32 2-Nitrophenol	139	4.769	4.775	-0.006	89	308186	50.0	23.2	
33 2,4-Dimethylphenol	122	4.846	4.857	-0.011	90	530714	50.0	24.9	
34 Bis(2-chloroethoxy)methane	93	4.934	4.939	-0.005	100	598490	50.0	26.6	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
29 2-Toluidine	107	4.993	4.968	0.025	1	1580		NC	
36 2,4-Dichlorophenol	162	5.022	5.034	-0.012	95	482221	50.0	22.5	
35 Benzoic acid	122	5.057	5.045	0.012	86	5352	50.0	3.27	
37 1,2,4-Trichlorobenzene	180	5.098	5.104	-0.006	95	594466	50.0	23.7	
* 38 Naphthalene-d8	136	5.146	5.145	0.001	99	2595075	40.0	40.0	
39 Naphthalene	128	5.163	5.169	-0.006	99	1664776	50.0	24.8	
40 4-Chloroaniline	127	5.240	5.251	-0.011	97	367391	50.0	14.4	
41 Hexachlorobutadiene	225	5.310	5.316	-0.006	96	405142	50.0	24.5	
42 Caprolactam	113	5.593	5.592	0.001	89	198633	100.0	39.8	
43 4-Chloro-3-methylphenol	107	5.769	5.763	0.006	97	417401	50.0	24.5	
44 2-Methylnaphthalene	142	5.863	5.869	-0.006	85	1106312	50.0	24.3	
45 1-Methylnaphthalene	142	5.963	5.963	0.000	93	1017780	50.0	26.1	
46 Hexachlorocyclopentadiene	237	6.034	6.034	0.000	96	117516	50.0	8.79	
47 1,2,4,5-Tetrachlorobenzene	216	6.040	6.045	-0.005	98	540721	50.0	26.7	
55 Benzidine_T	184	6.040	6.069	-0.029	51	2676		NC	
48 2-tertbutyl-4-methylphenol	149	6.110	6.110	0.000	91	779577	50.0	26.5	
49 2,4,6-Trichlorophenol	196	6.169	6.169	0.000	92	309605	50.0	26.3	
50 2,4,5-Trichlorophenol	196	6.210	6.204	0.006	97	272517	50.0	22.0	
\$ 51 2-Fluorobiphenyl	172	6.245	6.245	0.000	98	1211029	50.0	26.3	
52 1,1'-Biphenyl	154	6.340	6.339	0.001	95	1304586	50.0	28.3	
53 2-Chloronaphthalene	162	6.345	6.351	-0.006	97	949924	50.0	26.9	
54 Phenyl ether	170	6.445	6.445	0.000	84	760021	50.0	29.7	
56 2-Nitroaniline	65	6.463	6.469	-0.006	96	318491	50.0	30.7	
57 1,3-Dimethylnaphthalene	156	6.569	6.569	0.000	93	855617	50.0	29.8	
59 Coumarin	146	6.657	6.669	-0.012	79	339778	50.0	29.4	
58 Dimethyl phthalate	163	6.663	6.669	-0.006	100	1073663	50.0	32.7	
60 2,6-Dinitrotoluene	165	6.710	6.716	-0.006	95	231046	50.0	29.9	
61 Acenaphthylene	152	6.751	6.751	0.000	97	1388843	50.0	27.9	
64 3-Nitroaniline	138	6.869	6.875	-0.006	95	187058	50.0	23.7	
* 65 Acenaphthene-d10	164	6.892	6.886	0.006	90	1176190	40.0	40.0	
67 Acenaphthene	154	6.922	6.928	-0.006	93	871392	50.0	28.6	
66 3,5-di-tert-butyl-4-hydrox	205	6.945	6.951	-0.006	96	997559	50.0	27.4	
68 2,4-Dinitrophenol	184	6.981	6.992	-0.011	95	10248	100.0	5.17	
69 4-Nitrophenol	65	7.081	7.086	-0.005	89	255125	100.0	54.9	
71 Dibenzofuran	168	7.092	7.098	-0.006	96	1271081	50.0	27.7	
70 2,4-Dinitrotoluene	165	7.110	7.116	-0.006	94	268065	50.0	30.4	
72 2,3,4,6-Tetrachlorophenol	232	7.234	7.233	0.001	96	200842	50.0	22.0	
73 Diethyl phthalate	149	7.357	7.363	-0.006	99	968251	50.0	32.1	
87 n-Octadecane	57	7.392	7.392	0.000	97	600422	50.0	33.9	
75 Fluorene	166	7.428	7.433	-0.005	95	951990	50.0	28.2	
74 4-Chlorophenyl phenyl ethe	204	7.440	7.445	-0.005	94	514042	50.0	28.5	
76 4-Nitroaniline	138	7.469	7.486	-0.017	86	144557	50.0	22.6	
77 4,6-Dinitro-2-methylphenol	198	7.510	7.522	-0.012	87	45962	100.0	10.9	
78 N-Nitrosodiphenylamine	169	7.563	7.575	-0.012	67	684080	50.0	30.8	
79 1,2-Diphenylhydrazine	77	7.598	7.604	-0.006	96	785958	50.0	31.8	
\$ 80 2,4,6-Tribromophenol	330	7.669	7.675	-0.006	92	170296	50.0	26.4	
81 4-Bromophenyl phenyl ether	248	7.916	7.916	0.000	92	294298	50.0	29.6	
83 Hexachlorobenzene	284	7.975	7.975	0.000	95	324000	50.0	27.9	
84 Atrazine	200	8.110	8.104	0.006	94	519283	100.0	70.8	
85 Pentachlorophenol	266	8.175	8.175	0.000	94	181027	100.0	30.6	
86 Pentachloronitrobenzene	237	8.187	8.186	0.001	91	131792	50.0	32.0	
* 88 Phenanthrene-d10	188	8.339	8.333	0.006	97	1436664	40.0	40.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
89 Phenanthrene	178	8.363	8.363	0.000	96	1198432	50.0	30.3	
62 1-Naphthylamine	143	8.416	8.385	0.031	42	94		NC	
63 2-Naphthylamine	143	8.481	8.385	0.096	41	129		NC	
90 Anthracene	178	8.410	8.416	-0.006	99	1197494	50.0	30.3	
91 Carbazole	167	8.581	8.580	0.001	96	923420	50.0	29.9	
92 Di-n-butyl phthalate	149	8.951	8.951	0.000	100	1234837	50.0	33.5	
93 Fluoranthene	202	9.522	9.522	0.000	99	1223308	50.0	35.4	
94 Benzidine	184	9.669	9.669	0.000	51	5180	50.0	0.3223	
95 Pyrene	202	9.733	9.733	0.000	98	1198847	50.0	24.8	
82 Bisphenol-A	213	9.822	9.822	0.000	99	226134	25.0	13.7	
\$ 96 Terphenyl-d14	244	9.910	9.910	0.000	98	787216	50.0	21.5	
97 Butyl benzyl phthalate	149	10.410	10.410	0.000	96	439215	50.0	25.8	
99 Carbamazepine	193	10.492	10.498	-0.006	91	383618	50.0	34.5	
100 3,3'-Dichlorobenzidine	252	10.933	10.933	0.000	98	291425	50.0	21.6	
101 Benzo[a]anthracene	228	10.945	10.945	0.000	96	1144865	50.0	30.2	
* 102 Chrysene-d12	240	10.957	10.951	0.006	98	1281166	40.0	40.0	
103 Chrysene	228	10.986	10.986	0.000	99	1101147	50.0	32.8	
104 Bis(2-ethylhexyl) phthalat	149	11.039	11.033	0.006	87	620529	50.0	26.8	
105 Di-n-octyl phthalate	149	11.804	11.798	0.006	97	1077581	50.0	19.8	
106 Benzo[b]fluoranthene	252	12.204	12.198	0.006	97	1362937	50.0	30.0	
107 Benzo[k]fluoranthene	252	12.239	12.233	0.006	97	1349494	50.0	27.7	
108 Benzo[a]pyrene	252	12.610	12.604	0.006	98	1281625	50.0	31.3	
* 109 Perylene-d12	264	12.686	12.668	0.018	99	1600868	40.0	40.0	
110 Indeno[1,2,3-cd]pyrene	276	14.045	14.033	0.012	96	1070164	50.0	31.5	
111 Dibenz(a,h)anthracene	278	14.074	14.062	0.012	99	1060743	50.0	30.0	
112 Benzo[g,h,i]perylene	276	14.368	14.362	0.006	96	1020838	50.0	26.9	
S 119 Total Cresols	1				0			45.3	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

SM_ISTD_00105

Amount Added: 20.00

Units: uL

Run Reagent

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CBNAMS5\\20160427-40331.b\\x13352.D

Injection Date: 27-Apr-2016 12:54:30

Instrument ID: CBNAMS5

Operator ID:

Lims ID: 460-112310-A-6-B MSD

Worklist Smp#: 23

Client ID:

Injection Vol: 1.0 ul

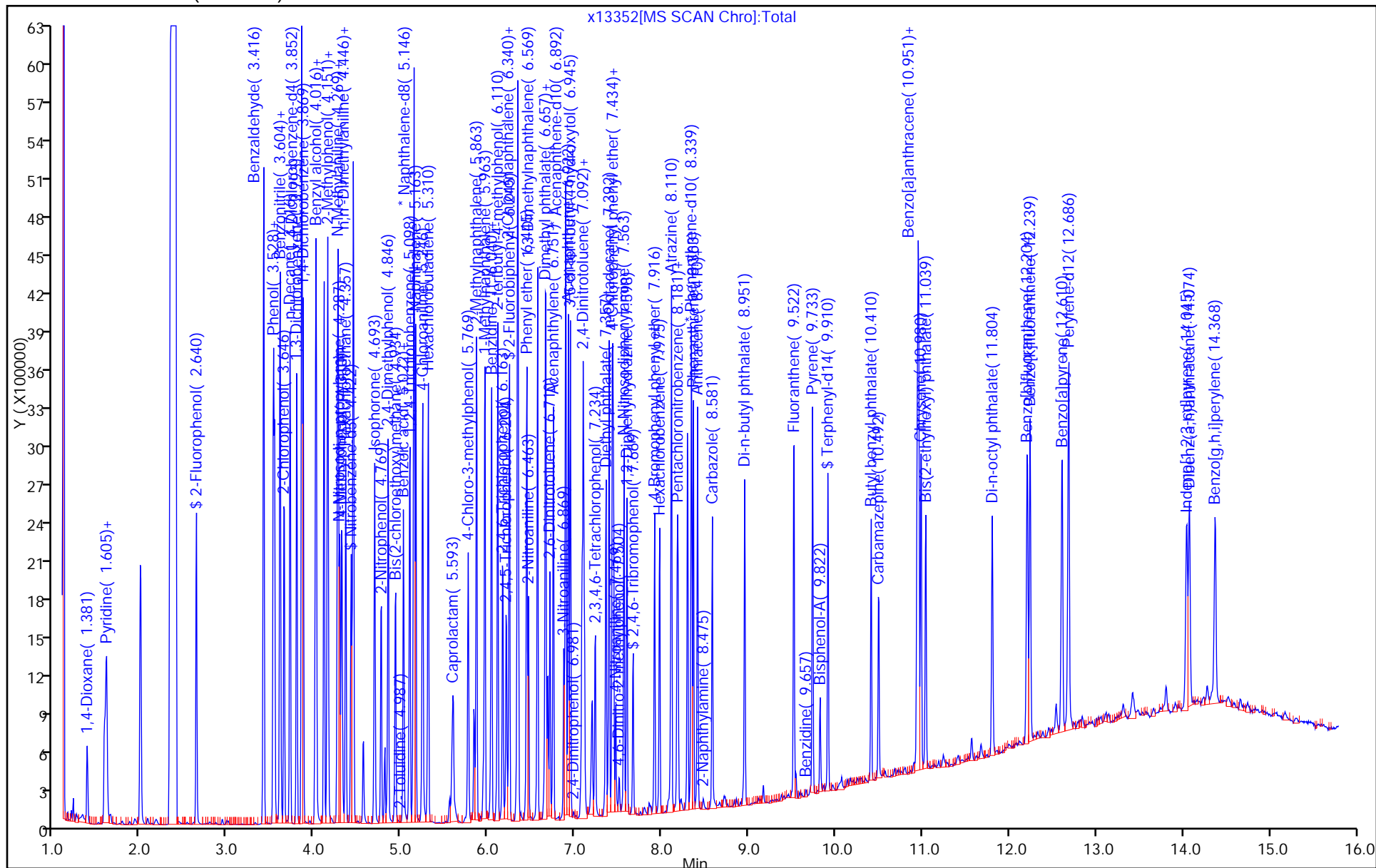
Dil. Factor: 1.0000

ALS Bottle#: 23

Method: 8270_5R

Limit Group: SV 8270D ICAL

Column: Rtxi-5Sil MS (0.25 mm)



GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica EdisonJob No.: 460-112518-1

SDG No.: _____

Instrument ID: CBNAMS5Start Date: 04/11/2016 13:27Analysis Batch Number: 361914End Date: 04/11/2016 22:26

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 460-361914/1		04/11/2016 13:27	1	x12691.D	Rtxi-5Sil MS 0.25 (mm)
ICIS 460-361914/2		04/11/2016 13:47	1		Rtxi-5Sil MS 0.25 (mm)
STD120 460-361914/3 IC		04/11/2016 14:11	1		Rtxi-5Sil MS 0.25 (mm)
STD80 460-361914/4 IC		04/11/2016 14:35	1		Rtxi-5Sil MS 0.25 (mm)
STD20 460-361914/5 IC		04/11/2016 15:00	1		Rtxi-5Sil MS 0.25 (mm)
STD10 460-361914/6 IC		04/11/2016 15:24	1		Rtxi-5Sil MS 0.25 (mm)
STD5 460-361914/7 IC		04/11/2016 15:48	1		Rtxi-5Sil MS 0.25 (mm)
STD2 460-361914/8 IC		04/11/2016 16:13	1		Rtxi-5Sil MS 0.25 (mm)
STD1 460-361914/9 IC		04/11/2016 16:37	1		Rtxi-5Sil MS 0.25 (mm)
STD05 460-361914/10 IC		04/11/2016 17:01	1		Rtxi-5Sil MS 0.25 (mm)
STD50 460-361914/11 IC		04/11/2016 17:25	1	x12701.D	Rtxi-5Sil MS 0.25 (mm)
STD120 460-361914/12 IC		04/11/2016 17:49	1	x12702.D	Rtxi-5Sil MS 0.25 (mm)
STD80 460-361914/13 IC		04/11/2016 18:14	1	x12703.D	Rtxi-5Sil MS 0.25 (mm)
STD20 460-361914/14 IC		04/11/2016 18:38	1	x12704.D	Rtxi-5Sil MS 0.25 (mm)
STD10 460-361914/15 IC		04/11/2016 19:03	1	x12705.D	Rtxi-5Sil MS 0.25 (mm)
STD5 460-361914/16 IC		04/11/2016 19:27	1	x12706.D	Rtxi-5Sil MS 0.25 (mm)
STD2 460-361914/17 IC		04/11/2016 19:51	1	x12707.D	Rtxi-5Sil MS 0.25 (mm)
ICV 460-361914/18		04/11/2016 20:16	1		Rtxi-5Sil MS 0.25 (mm)
ICV 460-361914/19		04/11/2016 22:26	1	x12709e.D	Rtxi-5Sil MS 0.25 (mm)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica EdisonJob No.: 460-112518-1

SDG No.: _____

Instrument ID: CBNAMS5Start Date: 04/18/2016 11:25Analysis Batch Number: 363141End Date: 04/18/2016 23:08

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 460-363141/1		04/18/2016 11:25	1	x12964B.D	Rtxi-5Sil MS 0.25 (mm)
ICIS 460-363141/2		04/18/2016 11:44	1	x12965.D	Rtxi-5Sil MS 0.25 (mm)
STD120 460-363141/3 IC		04/18/2016 12:26	1	x12966.D	Rtxi-5Sil MS 0.25 (mm)
STD80 460-363141/4 IC		04/18/2016 12:50	1	x12967.D	Rtxi-5Sil MS 0.25 (mm)
STD20 460-363141/5 IC		04/18/2016 13:15	1	x12968.D	Rtxi-5Sil MS 0.25 (mm)
STD10 460-363141/6 IC		04/18/2016 13:39	1	x12969.D	Rtxi-5Sil MS 0.25 (mm)
STD5 460-363141/7 IC		04/18/2016 14:04	1	x12970.D	Rtxi-5Sil MS 0.25 (mm)
STD2 460-363141/8 IC		04/18/2016 14:28	1	x12971.D	Rtxi-5Sil MS 0.25 (mm)
STD1 460-363141/9 IC		04/18/2016 14:53	1	x12972.D	Rtxi-5Sil MS 0.25 (mm)
STD05 460-363141/10 IC		04/18/2016 15:17	1	x12973.D	Rtxi-5Sil MS 0.25 (mm)
ICV 460-363141/11		04/18/2016 15:54	1	x12974.D	Rtxi-5Sil MS 0.25 (mm)
CCV 460-363141/12		04/18/2016 16:22	1		Rtxi-5Sil MS 0.25 (mm)
ZZZZZ		04/18/2016 17:23	1		Rtxi-5Sil MS 0.25 (mm)
ZZZZZ		04/18/2016 17:48	1		Rtxi-5Sil MS 0.25 (mm)
ZZZZZ		04/18/2016 18:12	1		Rtxi-5Sil MS 0.25 (mm)
ZZZZZ		04/18/2016 18:37	1		Rtxi-5Sil MS 0.25 (mm)
ZZZZZ		04/18/2016 19:02	2		Rtxi-5Sil MS 0.25 (mm)
ZZZZZ		04/18/2016 19:26	2		Rtxi-5Sil MS 0.25 (mm)
ZZZZZ		04/18/2016 19:50	1		Rtxi-5Sil MS 0.25 (mm)
ZZZZZ		04/18/2016 20:15	1		Rtxi-5Sil MS 0.25 (mm)
ZZZZZ		04/18/2016 20:40	2		Rtxi-5Sil MS 0.25 (mm)
ZZZZZ		04/18/2016 21:30	2		Rtxi-5Sil MS 0.25 (mm)
ZZZZZ		04/18/2016 21:54	2		Rtxi-5Sil MS 0.25 (mm)
ZZZZZ		04/18/2016 22:18	2		Rtxi-5Sil MS 0.25 (mm)
ZZZZZ		04/18/2016 22:43	2		Rtxi-5Sil MS 0.25 (mm)
ZZZZZ		04/18/2016 23:08	2		Rtxi-5Sil MS 0.25 (mm)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica EdisonJob No.: 460-112518-1

SDG No.: _____

Instrument ID: CBNAMS5Start Date: 04/27/2016 04:12Analysis Batch Number: 364897End Date: 04/27/2016 15:58

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 460-364897/1		04/27/2016 04:12	1	x13330.D	Rtxi-5Sil MS 0.25 (mm)
CCVIS 460-364897/2		04/27/2016 04:36	1	x13331.D	Rtxi-5Sil MS 0.25 (mm)
CCV 460-364897/3		04/27/2016 05:13	1	x13332.D	Rtxi-5Sil MS 0.25 (mm)
MB 460-364798/1-A		04/27/2016 05:36	1	x13333.D	Rtxi-5Sil MS 0.25 (mm)
LCS 460-364798/2-A		04/27/2016 05:59	1	x13334.D	Rtxi-5Sil MS 0.25 (mm)
LCS 460-364798/3-A		04/27/2016 06:23	1	x13335.D	Rtxi-5Sil MS 0.25 (mm)
ZZZZZ		04/27/2016 06:46	1		Rtxi-5Sil MS 0.25 (mm)
ZZZZZ		04/27/2016 07:09	1		Rtxi-5Sil MS 0.25 (mm)
ZZZZZ		04/27/2016 07:32	1		Rtxi-5Sil MS 0.25 (mm)
ZZZZZ		04/27/2016 09:26	1		Rtxi-5Sil MS 0.25 (mm)
ZZZZZ		04/27/2016 09:49	1		Rtxi-5Sil MS 0.25 (mm)
ZZZZZ		04/27/2016 10:12	1		Rtxi-5Sil MS 0.25 (mm)
ZZZZZ		04/27/2016 10:36	1		Rtxi-5Sil MS 0.25 (mm)
ZZZZZ		04/27/2016 10:59	1		Rtxi-5Sil MS 0.25 (mm)
460-112310-A-6-A MS		04/27/2016 12:31	1	x13351.D	Rtxi-5Sil MS 0.25 (mm)
460-112310-A-6-B MSD		04/27/2016 12:54	1	x13352.D	Rtxi-5Sil MS 0.25 (mm)
ZZZZZ		04/27/2016 13:17	1		Rtxi-5Sil MS 0.25 (mm)
ZZZZZ		04/27/2016 14:03	20		Rtxi-5Sil MS 0.25 (mm)
ZZZZZ		04/27/2016 14:26	1		Rtxi-5Sil MS 0.25 (mm)
ZZZZZ		04/27/2016 14:49	1		Rtxi-5Sil MS 0.25 (mm)
ZZZZZ		04/27/2016 15:12	1		Rtxi-5Sil MS 0.25 (mm)
ZZZZZ		04/27/2016 15:35	1		Rtxi-5Sil MS 0.25 (mm)
ZZZZZ		04/27/2016 15:58	1		Rtxi-5Sil MS 0.25 (mm)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica EdisonJob No.: 460-112518-1

SDG No.: _____

Instrument ID: CBNAMS5Start Date: 04/27/2016 17:12Analysis Batch Number: 365067End Date: 04/28/2016 03:54

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 460-365067/1		04/27/2016 17:12	1	x13361.D	Rtxi-5Sil MS 0.25 (mm)
CCVIS 460-365067/2		04/27/2016 17:29	1	x13362.D	Rtxi-5Sil MS 0.25 (mm)
CCV 460-365067/3		04/27/2016 17:57	1	x13363.D	Rtxi-5Sil MS 0.25 (mm)
ZZZZZ		04/27/2016 18:24	1		Rtxi-5Sil MS 0.25 (mm)
ZZZZZ		04/27/2016 18:47	1		Rtxi-5Sil MS 0.25 (mm)
ZZZZZ		04/27/2016 19:09	1		Rtxi-5Sil MS 0.25 (mm)
ZZZZZ		04/27/2016 19:32	1		Rtxi-5Sil MS 0.25 (mm)
ZZZZZ		04/27/2016 19:55	1		Rtxi-5Sil MS 0.25 (mm)
ZZZZZ		04/27/2016 20:18	1		Rtxi-5Sil MS 0.25 (mm)
ZZZZZ		04/27/2016 20:41	5		Rtxi-5Sil MS 0.25 (mm)
ZZZZZ		04/27/2016 21:04	1		Rtxi-5Sil MS 0.25 (mm)
ZZZZZ		04/27/2016 21:26	1		Rtxi-5Sil MS 0.25 (mm)
ZZZZZ		04/27/2016 21:49	1		Rtxi-5Sil MS 0.25 (mm)
ZZZZZ		04/27/2016 22:12	1		Rtxi-5Sil MS 0.25 (mm)
460-112518-1		04/27/2016 22:35	1	x13375.D	Rtxi-5Sil MS 0.25 (mm)
ZZZZZ		04/27/2016 22:57	1		Rtxi-5Sil MS 0.25 (mm)
ZZZZZ		04/27/2016 23:20	1		Rtxi-5Sil MS 0.25 (mm)
ZZZZZ		04/27/2016 23:43	1		Rtxi-5Sil MS 0.25 (mm)
ZZZZZ		04/28/2016 00:05	1		Rtxi-5Sil MS 0.25 (mm)
ZZZZZ		04/28/2016 00:51	1		Rtxi-5Sil MS 0.25 (mm)
ZZZZZ		04/28/2016 01:13	2		Rtxi-5Sil MS 0.25 (mm)
ZZZZZ		04/28/2016 01:36	2		Rtxi-5Sil MS 0.25 (mm)
ZZZZZ		04/28/2016 01:59	2		Rtxi-5Sil MS 0.25 (mm)
ZZZZZ		04/28/2016 02:22	1		Rtxi-5Sil MS 0.25 (mm)
ZZZZZ		04/28/2016 02:45	2		Rtxi-5Sil MS 0.25 (mm)
ZZZZZ		04/28/2016 03:09	2		Rtxi-5Sil MS 0.25 (mm)
ZZZZZ		04/28/2016 03:32	1		Rtxi-5Sil MS 0.25 (mm)
ZZZZZ		04/28/2016 03:54	1		Rtxi-5Sil MS 0.25 (mm)

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Edison Job No.: 460-112518-1

SDG No.: _____

Batch Number: 364798 Batch Start Date: 04/26/16 13:16 Batch Analyst: DeLeaon, Royce ABatch Method: 3546 Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	OP_Benzald_sp 00002	OP_BNA SPIK 00020	OP_BNASurroga 00009	
MB 460-364798/1		3546, 8270D		15.0000 g	1 mL			500 uL	
LCS 460-364798/2		3546, 8270D		15.0000 g	1 mL		500 uL	500 uL	
LCS 460-364798/3		3546, 8270D		15.0000 g	1 mL	50 uL		500 uL	
460-112310-A-6 MS		3546, 8270D	T	15.0231 g	1 mL	50 uL	500 uL	500 uL	
460-112310-A-6 MSD		3546, 8270D	T	15.0244 g	1 mL	50 uL	500 uL	500 uL	
460-112518-A-1	A3	3546, 8270D	T	15.0235 g	1 mL			500 uL	

Batch Notes	
Balance ID	28
Batch Comment	BNA SOIL 8270D
Final Concentrator Volume	1 mL
MeCL2 ID	138720
MeCl2 / Acetone ID	127319
Na2SO4 ID	151191 (SILICA SAND LOT#132456)
Person's name who did the prep	RD
Analyst ID - Spike Analyst	RD
Analyst ID - Spike Witness Analyst	RD
Water Bath Temperature	38c (38c UNCORRECTED)

Basis	Basis Description
T	Total/NA

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

8270D

Page 1 of 1

METALS

COVER PAGE
METALS

Lab Name: TestAmerica Edison Job Number: 460-112518-1

SDG No.: _____

Project: DEC Elmont546; Site: E130150

Client Sample ID
A3

Lab Sample ID
460-112518-1

Comments:

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: <u>A3</u>	Lab Sample ID: <u>460-112518-1</u>
Lab Name: <u>TestAmerica Edison</u>	Job No.: <u>460-112518-1</u>
SDG ID.: _____	
Matrix: <u>Solid</u>	Date Sampled: <u>04/18/2016 09:40</u>
Reporting Basis: <u>DRY</u>	Date Received: <u>04/18/2016 17:40</u>
% Solids: <u>94.4</u>	

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	5010	38.2	19.7	mg/Kg			4	6010C
7440-36-0	Antimony	3.8	3.8	1.5	mg/Kg	U		4	6010C
7440-38-2	Arsenic	4.0	2.9	0.94	mg/Kg			4	6010C
7440-39-3	Barium	57.6	38.2	1.4	mg/Kg			4	6010C
7440-41-7	Beryllium	0.33	0.38	0.32	mg/Kg	J		4	6010C
7440-43-9	Cadmium	0.76	0.76	0.40	mg/Kg	U		4	6010C
7440-70-2	Calcium	967	955	56.5	mg/Kg			4	6010C
7440-47-3	Chromium	8.3	1.9	0.92	mg/Kg			4	6010C
7440-48-4	Cobalt	3.8	9.5	1.1	mg/Kg	J		4	6010C
7440-50-8	Copper	137	4.8	1.2	mg/Kg			4	6010C
7439-89-6	Iron	9930	28.6	21.6	mg/Kg			4	6010C
7439-92-1	Lead	523	1.9	0.75	mg/Kg			4	6010C
7439-95-4	Magnesium	739	955	47.6	mg/Kg	J		4	6010C
7439-96-5	Manganese	320	2.9	1.0	mg/Kg			4	6010C
7440-02-0	Nickel	12.3	7.6	1.4	mg/Kg			4	6010C
7440-09-7	Potassium	212	955	28.9	mg/Kg	J		4	6010C
7782-49-2	Selenium	3.8	3.8	1.3	mg/Kg	U		4	6010C
7440-22-4	Silver	1.9	1.9	0.34	mg/Kg	U		4	6010C
7440-23-5	Sodium	955	955	64.6	mg/Kg	U		4	6010C
7440-28-0	Thallium	3.8	3.8	1.7	mg/Kg	U		4	6010C
7440-62-2	Vanadium	11.5	9.5	0.95	mg/Kg			4	6010C
7440-66-6	Zinc	203	5.7	1.4	mg/Kg			4	6010C

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Edison Job No.: 460-112518-1

SDG No.: _____

ICV Source: ME_CCV_DUO_00152 Concentration Units: ug/L

CCV Source: ME_CCV_DUO_00152

Analyte	ICV 460-364209/37 04/22/2016 14:43				CCV 460-364209/50 04/22/2016 15:32				CCV 460-364209/63 04/22/2016 16:20			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Aluminum	125000		125000	100	125200		125000	100	125400		125000	100
Antimony	997.7		1000	100	988.5		1000	99	994.0		1000	99
Arsenic	2497		2500	100	2487		2500	99	2494		2500	100
Barium	10200		10000	102	10190		10000	102	10190		10000	102
Beryllium	1019		1000	102	1021		1000	102	1019		1000	102
Cadmium	1266		1250	101	1269		1250	102	1268		1250	101
Calcium	125700		125000	101	127500		125000	102	126900		125000	102
Chromium	5089		5000	102	5137		5000	103	5117		5000	102
Cobalt	2519		2500	101	2524		2500	101	2525		2500	101
Copper	12530		12500	100	12460		12500	100	12520		12500	100
Iron	101400		100000	101	102300		100000	102	101900		100000	102
Lead	7579		7500	101	7608		7500	101	7611		7500	101
Magnesium	125300		125000	100	126000		125000	101	125200		125000	100
Manganese	5147		5000	103	5191		5000	104	5184		5000	104
Nickel	2542		2500	102	2549		2500	102	2546		2500	102
Potassium	49810		50000	100	49860		50000	100	49830		50000	100
Selenium	2482		2500	99	2455		2500	98	2470		2500	99
Silver	1243		1250	99	1244		1250	100	1245		1250	100
Sodium	126200		125000	101	127400		125000	102	127900		125000	102
Thallium	2528		2500	101	2529		2500	101	2551		2500	102
Vanadium	2526		2500	101	2542		2500	102	2536		2500	101
Zinc	2539		2500	102	2571		2500	103	2564		2500	103

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 Edison Job No.: 460-112518-1

SDG No.: _____

ICV Source: ME_CCV_DUO_00152 Concentration Units: ug/L

CCV Source: ME_CCV_DUO_00152

Analyte	CCV 460-364209/69 04/22/2016 16:44				CCV 460-364209/11 04/22/2016 17:40							
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Aluminum	125500		125000	100	126400		125000	101				
Antimony	990.2		1000	99	986.6		1000	99				
Arsenic	2494		2500	100	2491		2500	100				
Barium	10190		10000	102	10210		10000	102				
Beryllium	1021		1000	102	1026		1000	103				
Cadmium	1269		1250	102	1273		1250	102				
Calcium	128100		125000	102	129200		125000	103				
Chromium	5153		5000	103	5196		5000	104				
Cobalt	2523		2500	101	2530		2500	101				
Copper	12460		12500	100	12510		12500	100				
Iron	102600		100000	103	103200		100000	103				
Lead	7627		7500	102	7637		7500	102				
Magnesium	126300		125000	101	127000		125000	102				
Manganese	5207		5000	104	5236		5000	105				
Nickel	2548		2500	102	2555		2500	102				
Potassium	49930		50000	100	50170		50000	100				
Selenium	2465		2500	99	2458		2500	98				
Silver	1248		1250	100	1255		1250	100				
Sodium	128000		125000	102	128900		125000	103				
Thallium	2554		2500	102	2561		2500	102				
Vanadium	2545		2500	102	2558		2500	102				
Zinc	2573		2500	103	2599		2500	104				

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 Edison

Job No.: 460-112518-1

SDG No.: _____

ICV Source: ME_Cal2_BC_00011

Concentration Units: ug/L

CCV Source: ME_Cal2_BC_00011

Analyte	ICVL 460-364209/39 04/22/2016 14:50				CCVL 460-364209/52 04/22/2016 15:39				CCVL 460-364209/65 04/22/2016 16:27			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Aluminum	160.0	J	200	80	149.1	J	200	75	149.9	J	200	75
Antimony	19.88	J	20.0	99	20.05		20.0	100	18.60	J	20.0	93
Arsenic	14.74	J	15.0	98	13.57	J	15.0	90	15.23		15.0	102
Barium	189.6	J	200	95	190.0	J	200	95	197.1	J	200	99
Beryllium	1.90	J	2.00	95	1.86	J	2.00	93	1.89	J	2.00	95
Cadmium	3.83	J	4.00	96	3.76	J	4.00	94	4.16		4.00	104
Calcium	4671	J	5000	93	4683	J	5000	94	4771	J	5000	95
Chromium	10.07		10.0	101	10.10		10.0	101	10.17		10.0	102
Cobalt	47.54	J	50.0	95	47.75	J	50.0	96	49.59	J	50.0	99
Copper	22.93	J	25.0	92	21.98	J	25.0	88	22.24	J	25.0	89
Iron	145.4	J	150	97	138.3	J	150	92	163.4		150	109
Lead	10.83		10.0	108	9.48	J	10.0	95				
Magnesium	4479	J	5000	90	4467	J	5000	89	4556	J	5000	91
Manganese	15.30		15.0	102	15.20		15.0	101	15.64		15.0	104
Nickel	39.33	J	40.0	98	38.37	J	40.0	96	40.87		40.0	102
Potassium	4523	J	5000	90	4560	J	5000	91	4649	J	5000	93
Selenium	19.76	J	20.0	99	18.33	J	20.0	92	17.04	J	20.0	85
Silver	8.92	J	10.0	89	8.61	J	10.0	86	8.96	J	10.0	90
Sodium	4650	J	5000	93	4674	J	5000	93	4784	J	5000	96
Thallium	18.04	J	20.0	90	20.08		20.0	100	18.28	J	20.0	91
Vanadium	46.46	J	50.0	93	46.78	J	50.0	94	47.60	J	50.0	95
Zinc	34.46		30.0	115	34.67		30.0	116	35.44		30.0	118

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 Edison Job No.: 460-112518-1

SDG No.: _____

ICV Source: ME_Cal2_BC_00011 Concentration Units: ug/L

CCV Source: ME_Cal2_BC_00011

Analyte	CCVL 460-364209/71 04/22/2016 16:51				CCVL 460-364209/13 04/22/2016 17:47							
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Aluminum	141.1	J	200	71								
Antimony	17.79	J	20.0	89	18.71	J	20.0	94				
Arsenic	14.44	J	15.0	96	11.97	J	15.0	80				
Barium	186.3	J	200	93	189.4	J	200	95				
Beryllium	2.0	U	2.00	89	2.0	U	2.00	85				
Cadmium	3.63	J	4.00	91	3.78	J	4.00	94				
Calcium	4588	J	5000	92	4722	J	5000	94				
Chromium	9.41	J	10.0	94	10.20		10.0	102				
Cobalt	46.91	J	50.0	94	47.77	J	50.0	96				
Copper	21.02	J	25.0	84	20.73	J	25.0	83				
Iron	150.5		150	100	156.4		150	104				
Lead	9.91	J	10.0	99	10.61		10.0	106				
Magnesium	4356	J	5000	87	4510	J	5000	90				
Manganese	14.88	J	15.0	99	15.50		15.0	103				
Nickel	37.92	J	40.0	95	39.47	J	40.0	99				
Potassium	4447	J	5000	89	4568	J	5000	91				
Selenium	17.85	J	20.0	89	18.45	J	20.0	92				
Silver	8.65	J	10.0	87	9.16	J	10.0	92				
Sodium	4580	J	5000	92	4673	J	5000	93				
Thallium	16.89	J	20.0	84	19.74	J	20.0	99				
Vanadium	45.78	J	50.0	92	47.40	J	50.0	95				
Zinc	33.73		30.0	112	34.47		30.0	115				

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 Edison

Job No.: 460-112518-1

SDG No.: _____

ICV Source: ME_CCv_DUO_00152

Concentration Units: ug/L

CCV Source: ME_CCv_DUO_00152

Analyte	ICV 460-364279/7 04/23/2016 11:32				CCV 460-364279/20 04/23/2016 12:20				CCV 460-364279/33 04/23/2016 13:08			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Aluminum	122000		125000	98	127300		125000	102	124100		125000	99
Lead	7284		7500	97	7682		7500	102	7496		7500	100
<i>Antimony</i>	971.6		1000	97	1012		1000	101	978.1		1000	98
<i>Arsenic</i>	2426		2500	97	2534		2500	101	2476		2500	99
<i>Barium</i>	9834		10000	98	10350		10000	104	10100		10000	101
<i>Beryllium</i>	1003		1000	100	1035		1000	104	1005		1000	101
<i>Cadmium</i>	1216		1250	97	1282		1250	103	1253		1250	100
<i>Calcium</i>	121700		125000	97	127100		125000	102	124600		125000	100
<i>Chromium</i>	4964		5000	99	5141		5000	103	5018		5000	100
<i>Cobalt</i>	2428		2500	97	2548		2500	102	2483		2500	99
<i>Copper</i>	12280		12500	98	12830		12500	103	12370		12500	99
<i>Iron</i>	98340		100000	98	103100		100000	103	101000		100000	101
<i>Magnesium</i>	121300		125000	97	128000		125000	102	126200		125000	101
<i>Manganese</i>	5045		5000	101	5275		5000	106	5167		5000	103
<i>Nickel</i>	2451		2500	98	2571		2500	103	2508		2500	100
<i>Potassium</i>	48750		50000	98	51220		50000	102	50150		50000	100
<i>Selenium</i>	2404		2500	96	2521		2500	101	2455		2500	98
<i>Silver</i>	1209		1250	97	1261		1250	101	1228		1250	98
<i>Sodium</i>	123700		125000	99	130000		125000	104	126600		125000	101
<i>Thallium</i>	2452		2500	98	2555		2500	102	2482		2500	99
<i>Vanadium</i>	2461		2500	98	2575		2500	103	2506		2500	100
<i>Zinc</i>	2432		2500	97	2553		2500	102	2516		2500	101

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 Edison

Job No.: 460-112518-1

SDG No.: _____

ICV Source: ME_Cal2_BC_00011

Concentration Units: ug/L

CCV Source: ME_Cal2_BC_00011

Analyte	ICVL 460-364279/9 04/23/2016 11:39				CCVL 460-364279/22 04/23/2016 12:28				CCVL 460-364279/35 04/23/2016 13:15			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Aluminum	186.6	J	200	93	193.4	J	200	97	189.8	J	200	95
Lead	10.17		10.0	102	11.14		10.0	111	10.69		10.0	107
<i>Antimony</i>	17.38	J	20.0	87	18.00	J	20.0	90	16.50	J	20.0	83
<i>Arsenic</i>	12.10	J	15.0	81	12.19	J	15.0	81	12.77	J	15.0	85
<i>Barium</i>	181.4	J	200	91	184.2	J	200	92	184.7	J	200	92
<i>Beryllium</i>	2.0	U	2.00	89	1.87	J	2.00	94	1.90	J	2.00	95
<i>Cadmium</i>	3.65	J	4.00	91	3.80	J	4.00	95	3.85	J	4.00	96
<i>Calcium</i>	4640	J	5000	93	4675	J	5000	94	4710	J	5000	94
<i>Chromium</i>	10.19		10.0	102	9.61	J	10.0	96	9.70	J	10.0	97
<i>Cobalt</i>	46.11	J	50.0	92	46.32	J	50.0	93	46.29	J	50.0	93
<i>Copper</i>	23.47	J	25.0	94	23.86	J	25.0	95	23.53	J	25.0	94
<i>Iron</i>	190.4		150	127	180.5		150	120	185.8		150	124
<i>Magnesium</i>	4510	J	5000	90	4557	J	5000	91	4589	J	5000	92
<i>Manganese</i>	15.26		15.0	102	15.25		15.0	102	15.23		15.0	102
<i>Nickel</i>	37.09	J	40.0	93	38.09	J	40.0	95	37.44	J	40.0	94
<i>Potassium</i>	4429	J	5000	89	4494	J	5000	90	4490	J	5000	90
<i>Selenium</i>	19.08	J	20.0	95	16.09	J	20.0	80	15.75	J	20.0	79
<i>Silver</i>	8.85	J	10.0	88	8.60	J	10.0	86	8.57	J	10.0	86
<i>Sodium</i>	4497	J	5000	90	4549	J	5000	91	4558	J	5000	91
<i>Thallium</i>	20.78		20.0	104	20.25		20.0	101	20.30		20.0	102
<i>Vanadium</i>	47.06	J	50.0	94	47.13	J	50.0	94	47.06	J	50.0	94
<i>Zinc</i>	30.89		30.0	103	31.63		30.0	105	31.67		30.0	106

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Edison

Job No.: 460-112518-1

SDG No.: _____

Concentration Units: ug/L

Analyte	RL	ICB 460-364209/38 04/22/2016 14:46		CCB 460-364209/51 04/22/2016 15:36		CCB 460-364209/64 04/22/2016 16:23		CCB 460-364209/70 04/22/2016 16:47	
		Found	C	Found	C	Found	C	Found	C
Aluminum	200	200	U	200	U			200	U
Antimony	20.0	20.0	U	20.0	U	20.0	U	20.0	U
Arsenic	15.0	15.0	U	15.0	U	15.0	U	15.0	U
Barium	200	200	U	200	U	200	U	200	U
Beryllium	2.0	2.0	U	2.0	U	2.0	U	2.0	U
Cadmium	4.0	4.0	U	4.0	U	4.0	U	4.0	U
Calcium	5000	5000	U	5000	U	5000	U	5000	U
Chromium	10.0	10.0	U	10.0	U	10.0	U	10.0	U
Cobalt	50.0	50.0	U	50.0	U	50.0	U	50.0	U
Copper	25.0	25.0	U	25.0	U	25.0	U	25.0	U
Iron	150	150	U	150	U	150	U	150	U
Lead	10.0	10.0	U	10.0	U	10.0	U	10.0	U
Magnesium	5000	5000	U	5000	U	5000	U	5000	U
Manganese	15.0	15.0	U	15.0	U	15.0	U	15.0	U
Nickel	40.0	40.0	U	40.0	U	40.0	U	40.0	U
Potassium	5000	5000	U	5000	U	5000	U	5000	U
Selenium	20.0	20.0	U	20.0	U	20.0	U	20.0	U
Silver	10.0	10.0	U	10.0	U	10.0	U	10.0	U
Sodium	5000	5000	U	5000	U	5000	U	5000	U
Thallium	20.0	20.0	U	20.0	U	20.0	U	20.0	U
Vanadium	50.0	50.0	U	50.0	U	50.0	U	50.0	U
Zinc	30.0	30.0	U	30.0	U	30.0	U	30.0	U

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Edison Job No.: 460-112518-1

SDG No.: _____

Concentration Units: ug/L

Analyte	RL	CCB 460-364209/12 04/22/2016 17:43							
		Found	C	Found	C	Found	C	Found	C
Aluminum	200	200	U						
Antimony	20.0	20.0	U						
Arsenic	15.0	15.0	U						
Barium	200	200	U						
Beryllium	2.0	2.0	U						
Cadmium	4.0	4.0	U						
Calcium	5000	5000	U						
Chromium	10.0	10.0	U						
Cobalt	50.0	50.0	U						
Copper	25.0	25.0	U						
Iron	150	150	U						
Lead	10.0	10.0	U						
Magnesium	5000	5000	U						
Manganese	15.0	15.0	U						
Nickel	40.0	40.0	U						
Potassium	5000	5000	U						
Selenium	20.0	20.0	U						
Silver	10.0	10.0	U						
Sodium	5000	5000	U						
Thallium	20.0	20.0	U						
Vanadium	50.0	50.0	U						
Zinc	30.0	30.0	U						

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Edison

Job No.: 460-112518-1

SDG No.: _____

Concentration Units: ug/L

Analyte	RL	ICB 460-364279/8 04/23/2016 11:35		CCB 460-364279/21 04/23/2016 12:24		CCB 460-364279/34 04/23/2016 13:11			
		Found	C	Found	C	Found	C	Found	C
Aluminum	200	200	U	200	U	200	U		
Lead	10.0	10.0	U	10.0	U	10.0	U		
<i>Antimony</i>	20.0	20.0	U	20.0	U	20.0	U		
<i>Arsenic</i>	15.0	15.0	U	15.0	U	15.0	U		
<i>Barium</i>	200	200	U	200	U	200	U		
<i>Beryllium</i>	2.0	2.0	U	2.0	U	2.0	U		
<i>Cadmium</i>	4.0	4.0	U	4.0	U	4.0	U		
<i>Calcium</i>	5000	5000	U	5000	U	5000	U		
<i>Chromium</i>	10.0	10.0	U	10.0	U	10.0	U		
<i>Cobalt</i>	50.0	50.0	U	50.0	U	50.0	U		
<i>Copper</i>	25.0	25.0	U	25.0	U	25.0	U		
<i>Iron</i>	150	150	U	150	U	150	U		
<i>Magnesium</i>	5000	5000	U	5000	U	5000	U		
<i>Manganese</i>	15.0	15.0	U	15.0	U	15.0	U		
<i>Nickel</i>	40.0	40.0	U	40.0	U	40.0	U		
<i>Potassium</i>	5000	5000	U	5000	U	5000	U		
<i>Selenium</i>	20.0	20.0	U	20.0	U	20.0	U		
<i>Silver</i>	10.0	10.0	U	10.0	U	10.0	U		
<i>Sodium</i>	5000	5000	U	5000	U	5000	U		
<i>Thallium</i>	20.0	4.63	J	20.0	U	20.0	U		
<i>Vanadium</i>	50.0	50.0	U	50.0	U	50.0	U		
<i>Zinc</i>	30.0	30.0	U	30.0	U	30.0	U		

Italicized analytes were not requested for this sequence.

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Edison Job No.: 460-112518-1
 SDG No.: _____
 Concentration Units: mg/Kg Lab Sample ID: MB 460-364053/1-A ^2
 Instrument Code: ICP5 Batch No.: 364209

CAS No.	Analyte	Concentration	C	Q	Method
7440-36-0	Antimony	2.0	U		6010C
7440-38-2	Arsenic	1.5	U		6010C
7440-39-3	Barium	20.0	U		6010C
7440-41-7	Beryllium	0.20	U		6010C
7440-43-9	Cadmium	0.40	U		6010C
7440-70-2	Calcium	500	U		6010C
7440-47-3	Chromium	1.0	U		6010C
7440-48-4	Cobalt	5.0	U		6010C
7440-50-8	Copper	2.5	U		6010C
7439-89-6	Iron	15.0	U		6010C
7439-95-4	Magnesium	500	U		6010C
7439-96-5	Manganese	1.5	U		6010C
7440-02-0	Nickel	4.0	U		6010C
7440-09-7	Potassium	500	U		6010C
7782-49-2	Selenium	2.0	U		6010C
7440-22-4	Silver	1.0	U		6010C
7440-23-5	Sodium	500	U		6010C
7440-28-0	Thallium	2.0	U		6010C
7440-62-2	Vanadium	5.0	U		6010C
7440-66-6	Zinc	3.0	U		6010C

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Edison Job No.: 460-112518-1

SDG No.: _____

Concentration Units: mg/Kg Lab Sample ID: MB 460-364053/1-A ^2

Instrument Code: ICP5 Batch No.: 364279

CAS No.	Analyte	Concentration	C	Q	Method
7429-90-5	Aluminum	20.0	U		6010C
7439-92-1	Lead	1.0	U		6010C

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Edison Job No.: 460-112518-1
 SDG No.: _____
 Lab Sample ID: ICSA 460-364209/40 Instrument ID: ICP5
 Lab File ID: 364053D1.asc ICS Source: ME_ICSA_Duo_00071
 Concentration Units: ug/L

Analyte	True Solution A	Found Solution A	Percent Recovery
Aluminum	500000	505500	101
Antimony		0.959	
Arsenic		2.95	
Barium		-2.06	
Beryllium		0.0226	
Cadmium		-0.859	
Calcium	500000	498600	100
Chromium		-0.600	
Cobalt		-3.44	
Copper		0.136	
Iron	200000	197900	99
Lead		2.32	
Magnesium	500000	509300	102
Manganese		-1.49	
Nickel		-1.49	
Potassium		-9.70	
Selenium		-4.03	
Silver		-1.16	
Sodium		19.6	
Thallium		-0.590	
Vanadium		-1.83	
Zinc		-1.89	
<i>Boron</i>		<i>-2.37</i>	
<i>Molybdenum</i>		<i>1.36</i>	
<i>Strontium</i>		<i>-0.852</i>	
<i>Tin</i>		<i>0.490</i>	
<i>Titanium</i>		<i>1.45</i>	

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

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Edison Job No.: 460-112518-1
 SDG No.: _____
 Lab Sample ID: ICSAB 460-364209/41 Instrument ID: ICP5
 Lab File ID: 364053D1.asc ICS Source: ME_ICSAB_DUO_00085
 Concentration Units: ug/L

Analyte	True	Found	Percent Recovery
	Solution AB	Solution AB	
Aluminum	500000	514400	103
Antimony	100	99.9	100
Arsenic	100	97.5	97
Barium	100	102	102
Beryllium	100	101	101
Cadmium	100	97.6	98
Calcium	500000	505500	101
Chromium	100	101	101
Cobalt	100	96.2	96
Copper	100	108	108
Iron	200000	202100	101
Lead	100	102	102
Magnesium	500000	519300	104
Manganese	100	104	104
Nickel	100	97.5	97
Potassium	10000	10410	104
Selenium	100	95.8	96
Silver	100	104	104
Sodium	10000	10700	107
Thallium	100	95.8	96
Vanadium	100	100	100
Zinc	100	96.4	96
<i>Boron</i>	<i>100</i>	<i>92.3</i>	<i>92</i>
<i>Molybdenum</i>	<i>100</i>	<i>97.5</i>	<i>97</i>
<i>Strontium</i>	<i>100</i>	<i>102</i>	<i>102</i>
<i>Tin</i>	<i>100</i>	<i>100</i>	<i>100</i>
<i>Titanium</i>	<i>100</i>	<i>107</i>	<i>107</i>

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

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Edison Job No.: 460-112518-1
 SDG No.: _____
 Lab Sample ID: ICSA 460-364279/10 Instrument ID: ICP5
 Lab File ID: 364230D1.asc ICS Source: ME_ICSA_Duo_00071
 Concentration Units: ug/L

Analyte	True Solution A	Found Solution A	Percent Recovery
Aluminum	500000	493500	99
Lead		1.52	
<i>Antimony</i>		1.13	
<i>Arsenic</i>		-4.58	
<i>Barium</i>		-2.32	
<i>Beryllium</i>		-0.123	
<i>Boron</i>		-3.20	
<i>Cadmium</i>		-0.372	
<i>Calcium</i>	500000	494100	99
<i>Chromium</i>		-3.29	
<i>Cobalt</i>		-3.24	
<i>Copper</i>		0.175	
<i>Iron</i>	200000	195800	98
<i>Magnesium</i>	500000	505000	101
<i>Manganese</i>		-1.69	
<i>Molybdenum</i>		1.41	
<i>Nickel</i>		0.266	
<i>Potassium</i>		-9.01	
<i>Selenium</i>		-0.885	
<i>Silver</i>		-1.42	
<i>Sodium</i>		43.1	
<i>Strontium</i>		-0.985	
<i>Thallium</i>		1.92	
<i>Tin</i>		0.954	
<i>Titanium</i>		-2.10	
<i>Vanadium</i>		-1.98	
<i>Zinc</i>		-1.93	

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

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Edison Job No.: 460-112518-1
 SDG No.: _____
 Lab Sample ID: ICSAB 460-364279/11 Instrument ID: ICP5
 Lab File ID: 364230D1.asc ICS Source: ME_ICSAB_DUO_00085
 Concentration Units: ug/L

Analyte	True Solution AB	Found Solution AB	Percent Recovery
Aluminum	500000	507700	102
Lead	100	96.2	96
<i>Antimony</i>	<i>100</i>	<i>97.9</i>	<i>98</i>
<i>Arsenic</i>	<i>100</i>	<i>88.8</i>	<i>89</i>
<i>Barium</i>	<i>100</i>	<i>96.7</i>	<i>97</i>
<i>Beryllium</i>	<i>100</i>	<i>102</i>	<i>102</i>
<i>Boron</i>	<i>100</i>	<i>86.5</i>	<i>87</i>
<i>Cadmium</i>	<i>100</i>	<i>92.7</i>	<i>93</i>
<i>Calcium</i>	<i>500000</i>	<i>499700</i>	<i>100</i>
<i>Chromium</i>	<i>100</i>	<i>97.8</i>	<i>98</i>
<i>Cobalt</i>	<i>100</i>	<i>91.0</i>	<i>91</i>
<i>Copper</i>	<i>100</i>	<i>107</i>	<i>107</i>
<i>Iron</i>	<i>200000</i>	<i>198100</i>	<i>99</i>
<i>Magnesium</i>	<i>500000</i>	<i>511800</i>	<i>102</i>
<i>Manganese</i>	<i>100</i>	<i>102</i>	<i>102</i>
<i>Molybdenum</i>	<i>100</i>	<i>92.4</i>	<i>92</i>
<i>Nickel</i>	<i>100</i>	<i>92.0</i>	<i>92</i>
<i>Potassium</i>	<i>10000</i>	<i>10350</i>	<i>104</i>
<i>Selenium</i>	<i>100</i>	<i>89.6</i>	<i>90</i>
<i>Silver</i>	<i>100</i>	<i>102</i>	<i>102</i>
<i>Sodium</i>	<i>10000</i>	<i>10640</i>	<i>106</i>
<i>Strontium</i>	<i>100</i>	<i>101</i>	<i>101</i>
<i>Thallium</i>	<i>100</i>	<i>96.1</i>	<i>96</i>
<i>Tin</i>	<i>100</i>	<i>93.2</i>	<i>93</i>
<i>Titanium</i>	<i>100</i>	<i>102</i>	<i>102</i>
<i>Vanadium</i>	<i>100</i>	<i>99.0</i>	<i>99</i>
<i>Zinc</i>	<i>100</i>	<i>90.8</i>	<i>91</i>

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

5A-IN
MATRIX SPIKE SAMPLE RECOVERY
METALS

Client ID: _____ Lab ID: 460-112480-A-1-C MS ^4
 Lab Name: TestAmerica Edison Job No.: 460-112518-1
 SDG No.: _____
 Matrix: Solid Concentration Units: mg/Kg
 % Solids: 82.2

Analyte	SSR C	Sample Result (SR) C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Aluminum	17830	20400	232	-1119	75-125	4	6010C
Antimony	31.57	4.7 U	57.9	54	75-125	N	6010C
Arsenic	229.5	7.3	232	96	75-125		6010C
Barium	283.2	46.9	232	102	75-125		6010C
Beryllium	7.48	1.3	5.79	107	75-125		6010C
Cadmium	5.51	0.94 U	5.79	95	75-125		6010C
Calcium	3203	902 J	2320	99	75-125		6010C
Chromium	55.63	32.2	23.2	101	75-125		6010C
Cobalt	67.71	9.8 J	57.9	100	75-125		6010C
Copper	41.58	12.8	29.0	99	75-125		6010C
Iron	31640	31800	116	-121	75-125	4	6010C
Lead	66.62	12.8	57.9	93	75-125		6010C
Magnesium	5264	2900	2320	102	75-125		6010C
Manganese	422.1	384	57.9	66	75-125	4	6010C
Nickel	76.70	15.5	57.9	106	75-125		6010C
Potassium	3284	1020 J	2320	98	75-125		6010C
Selenium	218.6	4.7 U	232	94	75-125		6010C
Silver	5.41	2.3 U	5.79	93	75-125		6010C
Sodium	2378	1170 U	2320	103	75-125		6010C
Thallium	242.2	4.7 U	232	104	75-125		6010C
Vanadium	109.4	49.8	57.9	103	75-125		6010C
Zinc	100.3	38.3	57.9	107	75-125		6010C

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.
 Note - Results and Reporting Limits have been adjusted for dry weight.

5B-IN
POST DIGESTION SPIKE SAMPLE RECOVERY
METALS

Client ID: _____

Lab ID: 460-112480-A-1-A PDS ^4

Lab Name: TestAmerica Edison

Job No.: 460-112518-1

SDG No.: _____

Matrix: Solid

Concentration Units: mg/Kg

Analyte	SSR C	Sample Result (SR) C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Aluminum	16990	20400	468	NC	80-120		6010C
Antimony	112.8	4.7 U	117	96	80-120		6010C
Arsenic	457.7	7.1	468	96	80-120		6010C
Barium	519.3	47.1	468	101	80-120		6010C
Beryllium	13.35	1.3	11.7	103	80-120		6010C
Cadmium	11.32	0.94 U	11.7	97	80-120		6010C
Calcium	5570	912 J	4680	100	80-120		6010C
Chromium	81.18	32.3	46.8	104	80-120		6010C
Cobalt	127.4	9.9 J	117	100	80-120		6010C
Copper	70.88	12.8	58.5	99	80-120		6010C
Iron	31870	32100	234	NC	80-120		6010C
Lead	121.7	12.8	117	93	80-120		6010C
Magnesium	7402	2920	4680	96	80-120		6010C
Manganese	503.4	387	117	100	80-120		6010C
Nickel	134.8	15.6	117	102	80-120		6010C
Potassium	5293	1030 J	4680	91	80-120		6010C
Selenium	443.9	4.7 U	468	95	80-120		6010C
Silver	11.12	2.3 U	11.7	95	80-120		6010C
Sodium	4718	1170 U	4680	101	80-120		6010C
Thallium	482.3	4.7 U	468	103	80-120		6010C
Vanadium	166.3	49.9	117	99	80-120		6010C
Zinc	158.0	39.1	117	102	80-120		6010C

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.
Note - Results and Reporting Limits have been adjusted for dry weight.

FORM VB - IN

6-IN
DUPLICATES
METALS

Client ID: _____ Lab ID: 460-112480-A-1-B DU ^4
 Lab Name: TestAmerica Edison Job No.: 460-112518-1
 SDG No.: _____
 % Solids for Sample: 82.2 % Solids for Duplicate: 82.2
 Matrix: Solid Concentration Units: mg/Kg

Analyte	Control Limit	Sample (S) C	Duplicate (D) C	RPD	Q	Method
Aluminum	45.9	20400	15910	25	*	6010C
Antimony	4.6	4.7 U	4.6 U	NC		6010C
Arsenic	3.4	7.3	7.05	3		6010C
Barium	45.9	46.9	43.62 J	7		6010C
Beryllium	0.46	1.3	1.21	7		6010C
Cadmium	0.92	0.94 U	0.92 U	NC		6010C
Calcium	1150	902 J	854.6 J	5		6010C
Chromium	2.3	32.2	30.19	6		6010C
Cobalt	11.5	9.8 J	9.78 J	0.5		6010C
Copper	5.7	12.8	12.62	2		6010C
Iron	34.4	31800	30220	5		6010C
Lead	2.3	12.8	9.70	27	*	6010C
Magnesium	1150	2900	2735	6		6010C
Manganese	3.4	384	423.6	10		6010C
Nickel	9.2	15.5	15.23	1		6010C
Potassium	1150	1020 J	920.2 J	11		6010C
Selenium	4.6	4.7 U	4.6 U	NC		6010C
Silver	2.3	2.3 U	2.3 U	NC		6010C
Sodium	1150	1170 U	1150 U	NC		6010C
Thallium	4.6	4.7 U	4.6 U	NC		6010C
Vanadium	11.5	49.8	46.61	7		6010C
Zinc	6.9	38.3	37.77	1		6010C

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

7A-IN
LCS-CERTIFIED REFERENCE MATERIAL
METALS

Lab ID: LCSSRM 460-364053/2-A ^4

Lab Name: TestAmerica Edison

Job No.: 460-112518-1

Sample Matrix: Solid

LCS Source: ME_LCSS_91_00001

Analyte	Solid (mg/Kg)							
	True	Found	C	%R	Limits		Q	Method
Aluminum	8080	7629		94.4	51.1	148.5		6010C
Antimony	123	84.70		68.9	1.0	200.0		6010C
Arsenic	145	151.1		104.2	79.3	121.4		6010C
Barium	209	226.0		108.1	83.3	117.2		6010C
Beryllium	97.3	105.7		108.6	82.6	117.2		6010C
Cadmium	87.6	94.23		107.6	82.6	117.6		6010C
Calcium	5690	5979		105.1	81.0	118.8		6010C
Chromium	143	155.9		109.0	79.7	119.6		6010C
Cobalt	154	168.8		109.6	83.8	115.6		6010C
Copper	173	181.3		104.8	81.5	117.9		6010C
Iron	15000	15880		105.9	46.8	154.0		6010C
Lead	146	158.1		108.3	81.5	118.5		6010C
Magnesium	2640	2616		99.1	76.5	123.5		6010C
Manganese	309	350.5		113.4	81.6	118.8		6010C
Nickel	129	146.3		113.4	82.9	117.1		6010C
Potassium	2400	2377		99.0	71.7	128.3		6010C
Selenium	178	179.3		100.7	78.7	121.3		6010C
Silver	31.3	31.69		101.2	75.1	124.9		6010C
Sodium	869	884.3	J	101.8	72.7	126.6		6010C
Thallium	141	160.4		113.8	79.4	121.3		6010C
Vanadium	115	120.4		104.7	77.6	122.6		6010C
Zinc	194	213.4		110.0	82.0	118.0		6010C

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

FORM VIIA - IN

8-IN
ICP-AES AND ICP-MS SERIAL DILUTIONS
METALS

Lab ID: 460-112480-A-1-A SD ^20

SDG No: _____

Lab Name: TestAmerica Edison

Job No: 460-112518-1

Matrix: Solid

Concentration Units: mg/Kg

Analyte	Initial Sample Result (I) C		Serial Dilution Result (S) C		% Difference	Q	Method
Aluminum	20400		19670		3.7		6010C
Antimony	4.7	U	23.4	U	NC		6010C
Arsenic	7.3		6.22	J	NC		6010C
Barium	46.9		46.85	J	NC		6010C
Beryllium	1.3		2.3	U	NC		6010C
Cadmium	0.94	U	4.7	U	NC		6010C
Calcium	902	J	853.6	J	NC		6010C
Chromium	32.2		32.52		NC		6010C
Cobalt	9.8	J	9.84	J	NC		6010C
Copper	12.8		11.72	J	NC		6010C
Iron	31800		32270		1.5		6010C
Lead	12.8		13.64		NC		6010C
Magnesium	2900		2953	J	NC		6010C
Manganese	384		391.4		1.9		6010C
Nickel	15.5		14.94	J	NC		6010C
Potassium	1020	J	1035	J	NC		6010C
Selenium	4.7	U	23.4	U	NC		6010C
Silver	2.3	U	11.7	U	NC		6010C
Sodium	1170	U	5850	U	NC		6010C
Thallium	4.7	U	23.4	U	NC		6010C
Vanadium	49.8		49.39	J	NC		6010C
Zinc	38.3		39.55		NC		6010C

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

FORM VIII-IN

9-IN
DETECTION LIMITS
METALS

Lab Name: TestAmerica Edison Job Number: 460-112518-1
 SDG Number: _____
 Matrix: Solid Instrument ID: ICP5
 Method: 6010C MDL Date: 05/05/2015 13:01
 Prep Method: 3050B

Analyte	Wavelength/ Mass	RL (mg/Kg)	MDL (mg/Kg)
Aluminum		40	20.6
Antimony		4	1.58
Arsenic		3	0.983
Barium		40	1.43
Beryllium		0.4	0.339
Cadmium		0.8	0.417
Calcium		1000	59.2
Chromium		2	0.967
Cobalt		10	1.15
Copper		5	1.3
Iron		30	22.6
Lead		2	0.785
Magnesium		1000	49.9
Manganese		3	1.05
Nickel		8	1.46
Potassium		1000	30.3
Selenium		4	1.38
Silver		2	0.353
Sodium		1000	67.7
Thallium		4	1.77
Vanadium		10	1
Zinc		6	1.46

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS

Lab Name: TestAmerica Edison Job Number: 460-112518-1
SDG Number: _____
Matrix: Solid Instrument ID: ICP5
Method: 6010C XMDL Date: 05/05/2015 12:52

Analyte	Wavelength/ Mass	XRL (ug/L)	XMDL (ug/L)
Aluminum		200	69.5
Antimony		20	4.7
Arsenic		15	4.41
Barium		200	5.49
Beryllium		2	1.8
Cadmium		4	2.32
Calcium		5000	317
Chromium		10	4.5
Cobalt		50	5.08
Copper		25	5.02
Iron		150	65.4
Lead		10	4.16
Magnesium		5000	260
Manganese		15	4.88
Nickel		40	5.39
Potassium		5000	122
Selenium		20	6.76
Silver		10	1.86
Sodium		5000	315
Thallium		20	4.52
Vanadium		50	4.37
Zinc		30	5.9

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Edison Job No.: 460-112518-1

SDG No.: _____

Prep Method: 3050B

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight (g)	Initial Volume	Final Volume (mL)
MB 460-364053/1-A ^2	04/22/2016 07:41	364053	1.00		50
LCSSRM 460-364053/2-A ^4	04/22/2016 07:41	364053	1.03		50
460-112480-A-1-B DU ^4	04/22/2016 07:41	364053	1.06		50
460-112480-A-1-C MS ^4	04/22/2016 07:41	364053	1.05		50
460-112518-1	04/22/2016 07:41	364053	1.11		50

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Edison Job No.: 460-112518-1

SDG No.: _____

Instrument ID: ICP5 Method: 6010C

Start Date: 04/22/2016 14:20 End Date: 04/22/2016 18:50

Lab Sample ID	D / F	T y p e	Time	Analytes																			
				A g	A l	A s	B a	B e	C a	C d	C o	C r	C u	F e	K	M g	M n	N a	N i	P b	S b	S e	T l
ICIS 460-364209/31	1		14:20	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ZZZZZZ			14:24																				
ZZZZZZ			14:28																				
ZZZZZZ			14:32																				
ZZZZZZ			14:36																				
ZZZZZZ			14:39																				
ICV 460-364209/37	1		14:43	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICB 460-364209/38	1		14:46	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICVL 460-364209/39	1		14:50	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICSA 460-364209/40	1		14:54	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICSAB 460-364209/41	1		14:58	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ZZZZZZ			15:02																				
ZZZZZZ			15:06																				
ZZZZZZ			15:10																				
ZZZZZZ			15:13																				
ZZZZZZ			15:17																				
ZZZZZZ			15:21																				
ZZZZZZ			15:25																				
LCSSRM 460-364053/2-A ^4	4	T	15:29	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCV 460-364209/50	1		15:32	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB 460-364209/51	1		15:36	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCVL 460-364209/52	1		15:39	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
MB 460-364053/1-A ^2	2	T	15:43	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X
460-112480-A-1-A PDS ^4	4	T	15:47	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X
460-112480-A-1-C MS ^4	4	T	15:51	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X
460-112480-A-1-B DU ^4	4	T	15:54	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X
ZZZZZZ			15:58																				
460-112480-A-1-A SD ^20	20	T	16:01	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X
ZZZZZZ			16:05																				
ZZZZZZ			16:09																				
ZZZZZZ			16:13																				
ZZZZZZ			16:16																				
CCV 460-364209/63	1		16:20	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB 460-364209/64	1		16:23	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCVL 460-364209/65	1		16:27	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X
ZZZZZZ			16:31																				
ZZZZZZ			16:35																				
ZZZZZZ			16:39																				
CCV 460-364209/69	1		16:44	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB 460-364209/70	1		16:47	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Edison Job No.: 460-112518-1

SDG No.: _____

Instrument ID: ICP5 Method: 6010C

Start Date: 04/22/2016 14:20 End Date: 04/22/2016 18:50

Lab Sample ID	D / F	T y p e	Time	Analytes																			
				A g	A l	A s	B a	B e	C a	C d	C o	C r	C u	F e	K	M g	M n	N a	N i	P b	S b	S e	T l
CCVL 460-364209/71	1		16:51	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ZZZZZZ			17:03																				
460-112518-1	4	T	17:07	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ZZZZZZ			17:10																				
ZZZZZZ			17:14																				
ZZZZZZ			17:18																				
ZZZZZZ			17:21																				
ZZZZZZ			17:25																				
ZZZZZZ			17:29																				
ZZZZZZ			17:32																				
ZZZZZZ			17:36																				
CCV 460-364209/11	1		17:40	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB 460-364209/12	1		17:43	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCVL 460-364209/13	1		17:47	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ZZZZZZ			17:51																				
ZZZZZZ			17:55																				
ZZZZZZ			17:58																				
ZZZZZZ			18:02																				
ZZZZZZ			18:05																				
ZZZZZZ			18:09																				
ZZZZZZ			18:13																				
ZZZZZZ			18:16																				
ZZZZZZ			18:20																				
ZZZZZZ			18:24																				
CCV 460-364209/24			18:28																				
CCB 460-364209/25			18:31																				
CCVL 460-364209/26			18:35																				
ZZZZZZ			18:39																				
CCV 460-364209/28			18:42																				
CCB 460-364209/29			18:46																				
CCVL 460-364209/30			18:50																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Edison Job No.: 460-112518-1

SDG No.: _____

Instrument ID: ICP5 Method: 6010C

Start Date: 04/22/2016 14:20 End Date: 04/22/2016 18:50

Lab Sample ID	D / F	T y p e	Time	Analytes																	
				V	Z n																
ICIS 460-364209/31	1		14:20	X	X																
ZZZZZZ			14:24																		
ZZZZZZ			14:28																		
ZZZZZZ			14:32																		
ZZZZZZ			14:36																		
ZZZZZZ			14:39																		
ICV 460-364209/37	1		14:43	X	X																
ICB 460-364209/38	1		14:46	X	X																
ICVL 460-364209/39	1		14:50	X	X																
ICSA 460-364209/40	1		14:54	X	X																
ICSAB 460-364209/41	1		14:58	X	X																
ZZZZZZ			15:02																		
ZZZZZZ			15:06																		
ZZZZZZ			15:10																		
ZZZZZZ			15:13																		
ZZZZZZ			15:17																		
ZZZZZZ			15:21																		
ZZZZZZ			15:25																		
LCSSRM 460-364053/2-A ^4	4	T	15:29	X	X																
CCV 460-364209/50	1		15:32	X	X																
CCB 460-364209/51	1		15:36	X	X																
CCVL 460-364209/52	1		15:39	X	X																
MB 460-364053/1-A ^2	2	T	15:43	X	X																
460-112480-A-1-A PDS ^4	4	T	15:47	X	X																
460-112480-A-1-C MS ^4	4	T	15:51	X	X																
460-112480-A-1-B DU ^4	4	T	15:54	X	X																
ZZZZZZ			15:58																		
460-112480-A-1-A SD ^20	20	T	16:01	X	X																
ZZZZZZ			16:05																		
ZZZZZZ			16:09																		
ZZZZZZ			16:13																		
ZZZZZZ			16:16																		
CCV 460-364209/63	1		16:20	X	X																
CCB 460-364209/64	1		16:23	X	X																
CCVL 460-364209/65	1		16:27	X	X																
ZZZZZZ			16:31																		
ZZZZZZ			16:35																		
ZZZZZZ			16:39																		
CCV 460-364209/69	1		16:44	X	X																
CCB 460-364209/70	1		16:47	X	X																

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Edison Job No.: 460-112518-1

SDG No.: _____

Instrument ID: ICP5 Method: 6010C

Start Date: 04/22/2016 14:20 End Date: 04/22/2016 18:50

Lab Sample ID	D / F	T y p e	Time	Analytes																	
				V	Z n																
CCVL 460-364209/71	1		16:51	X	X																
ZZZZZZ			17:03																		
460-112518-1	4	T	17:07	X	X																
ZZZZZZ			17:10																		
ZZZZZZ			17:14																		
ZZZZZZ			17:18																		
ZZZZZZ			17:21																		
ZZZZZZ			17:25																		
ZZZZZZ			17:29																		
ZZZZZZ			17:32																		
ZZZZZZ			17:36																		
CCV 460-364209/11	1		17:40	X	X																
CCB 460-364209/12	1		17:43	X	X																
CCVL 460-364209/13	1		17:47	X	X																
ZZZZZZ			17:51																		
ZZZZZZ			17:55																		
ZZZZZZ			17:58																		
ZZZZZZ			18:02																		
ZZZZZZ			18:05																		
ZZZZZZ			18:09																		
ZZZZZZ			18:13																		
ZZZZZZ			18:16																		
ZZZZZZ			18:20																		
ZZZZZZ			18:24																		
CCV 460-364209/24			18:28																		
CCB 460-364209/25			18:31																		
CCVL 460-364209/26			18:35																		
ZZZZZZ			18:39																		
CCV 460-364209/28			18:42																		
CCB 460-364209/29			18:46																		
CCVL 460-364209/30			18:50																		

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Edison Job No.: 460-112518-1

SDG No.: _____

Instrument ID: ICP5 Method: 6010C

Start Date: 04/23/2016 11:09 End Date: 04/23/2016 14:03

Lab Sample ID	D / F	T y p e	Time	Analytes																	
				A l	P b																
ICIS 460-364279/1	1		11:09	X	X																
ZZZZZZ			11:13																		
ZZZZZZ			11:17																		
ZZZZZZ			11:21																		
ZZZZZZ			11:24																		
ZZZZZZ			11:28																		
ICV 460-364279/7	1		11:32	X	X																
ICB 460-364279/8	1		11:35	X	X																
ICVL 460-364279/9	1		11:39	X	X																
ICSA 460-364279/10	1		11:43	X	X																
ICSAB 460-364279/11	1		11:47	X	X																
ZZZZZZ			11:51																		
ZZZZZZ			11:55																		
460-112480-A-1-A PDS ^4	4	T	11:59	X	X																
460-112480-A-1-C MS ^4	4	T	12:02	X	X																
460-112480-A-1-B DU ^4	4	T	12:06	X	X																
ZZZZZZ			12:09																		
460-112480-A-1-A SD ^20	20	T	12:13	X	X																
ZZZZZZ			12:17																		
CCV 460-364279/20	1		12:20	X	X																
CCB 460-364279/21	1		12:24	X	X																
CCVL 460-364279/22	1		12:28	X	X																
MB 460-364053/1-A ^2	2	T	12:31	X	X																
460-112518-1	4	T	12:35	X																	
ZZZZZZ			12:39																		
ZZZZZZ			12:43																		
ZZZZZZ			12:46																		
ZZZZZZ			12:50																		
ZZZZZZ			12:53																		
ZZZZZZ			12:57																		
ZZZZZZ			13:01																		
ZZZZZZ			13:04																		
CCV 460-364279/33	1		13:08	X	X																
CCB 460-364279/34	1		13:11	X	X																
CCVL 460-364279/35	1		13:15	X	X																
ZZZZZZ			13:19																		
ZZZZZZ			13:23																		
ZZZZZZ			13:26																		
ZZZZZZ			13:30																		
ZZZZZZ			13:34																		

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Edison Job No.: 460-112518-1

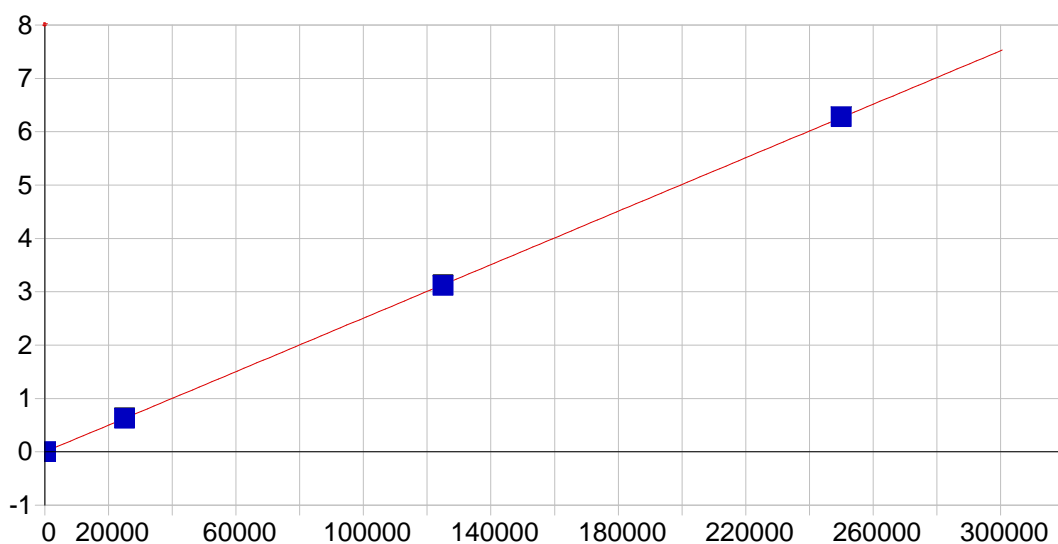
SDG No.: _____

Instrument ID: ICP5 Method: 6010C

Start Date: 04/23/2016 11:09 End Date: 04/23/2016 14:03

Lab Sample ID	D / F	T y p e	Time	Analytes																	
				A l	P b																
ZZZZZZ			13:37																		
ZZZZZZ			13:41																		
ZZZZZZ			13:45																		
ZZZZZZ			13:48																		
ZZZZZZ			13:52																		
CCV 460-364279/46			13:55																		
CCB 460-364279/47			13:59																		
CCVL 460-364279/48			14:03																		

Prep Types
T = Total/NA

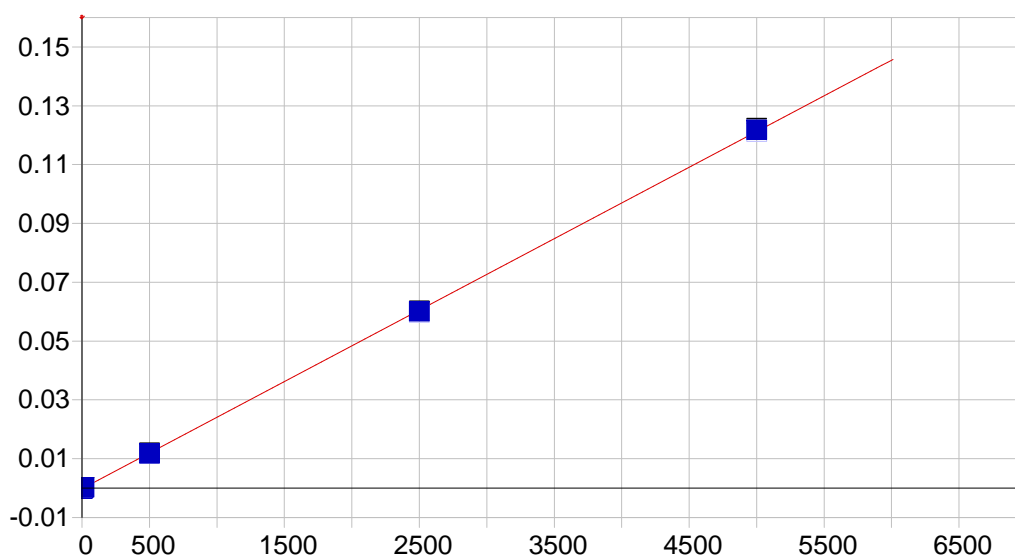


AI 396.152 { 85}

Date of Fit: 4/22/2016 14:43:24 Type of Fit: Linear Weighting: 1/Conc

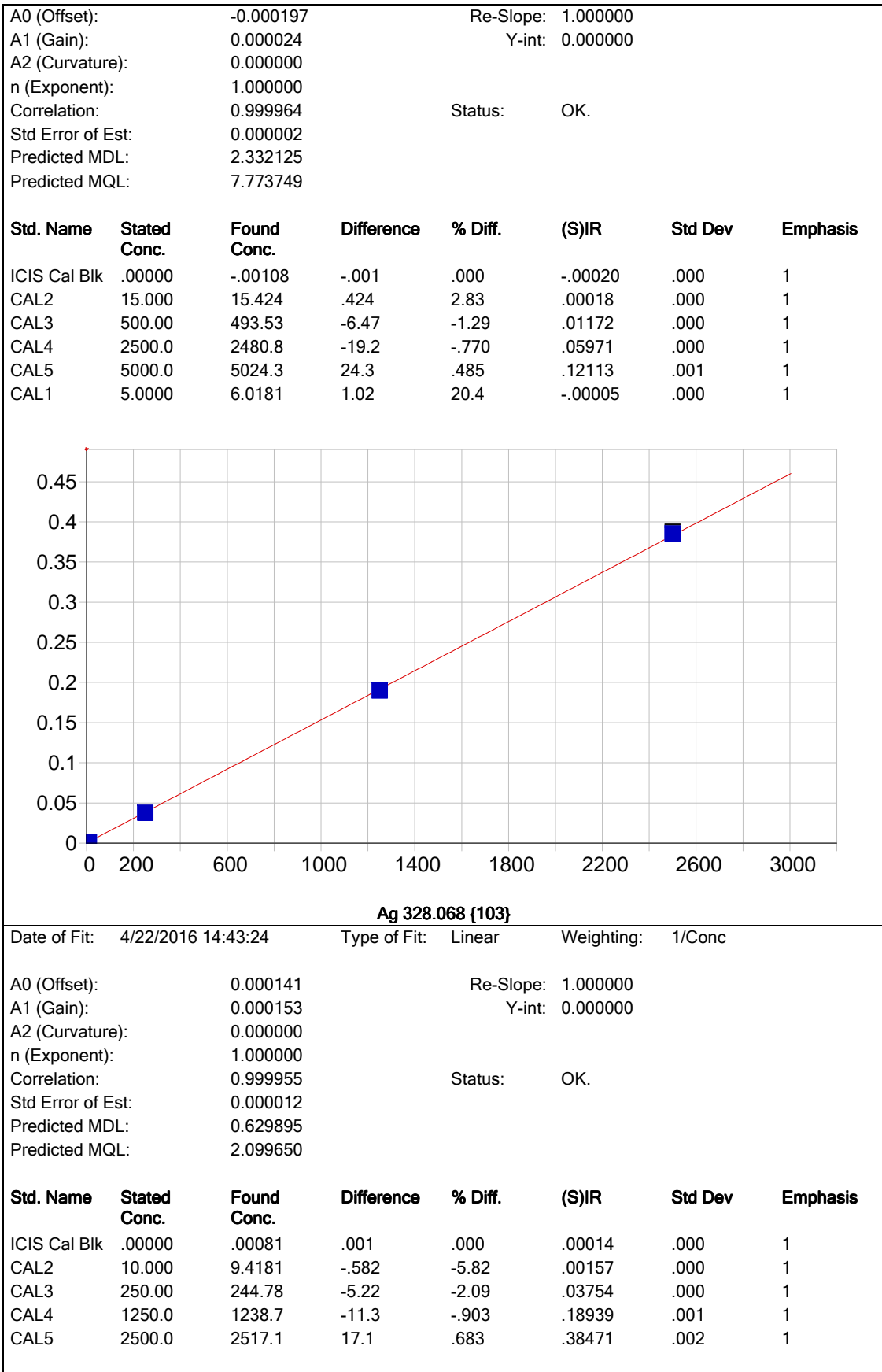
A0 (Offset): 0.000067 Re-Slope: 1.000000
 A1 (Gain): 0.000025 Y-int: 0.000000
 A2 (Curvature): 0.000000
 n (Exponent): 1.000000
 Correlation: 0.999988 Status: OK.
 Std Error of Est: 0.000044
 Predicted MDL: 12.738407
 Predicted MQL: 42.461358

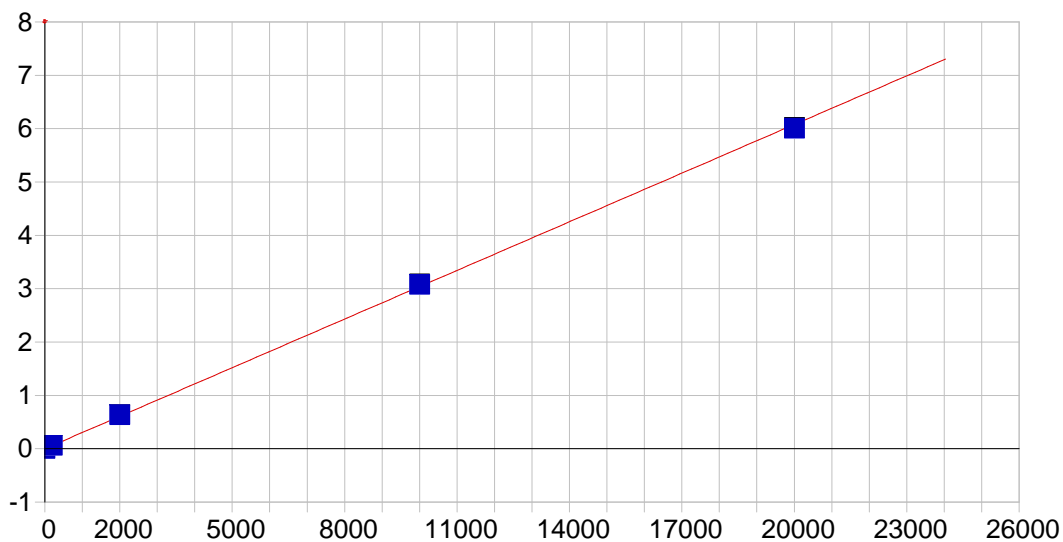
Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000	.03333	.033	.000	.00007	.001	1
CAL2	200.00	166.48	-33.5	-16.8	.00425	.000	1
CAL3	25000.	25083.	83.3	.333	.62903	.001	1
CAL4	125000.	124450.	-549.	-.439	3.1207	.006	1
CAL5	250000.	250500.	499.	.200	6.2814	.001	1



As 189.042 {478}

Date of Fit: 4/22/2016 14:43:24 Type of Fit: Linear Weighting: 1/Conc



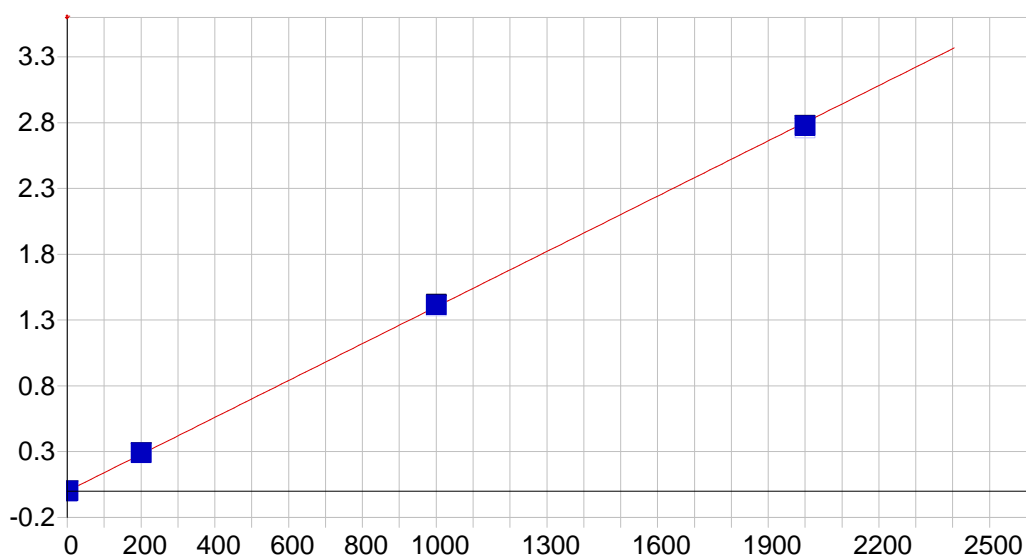


Ba 233.527 {445}

Date of Fit: 4/22/2016 14:43:24 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.000001 Re-Slope: 1.000000
 A1 (Gain): 0.000304 Y-int: 0.000000
 A2 (Curvature): 0.000000
 n (Exponent): 1.000000
 Correlation: 0.999857 Status: OK.
 Std Error of Est: 0.000531
 Predicted MDL: 0.221030
 Predicted MQL: 0.736768

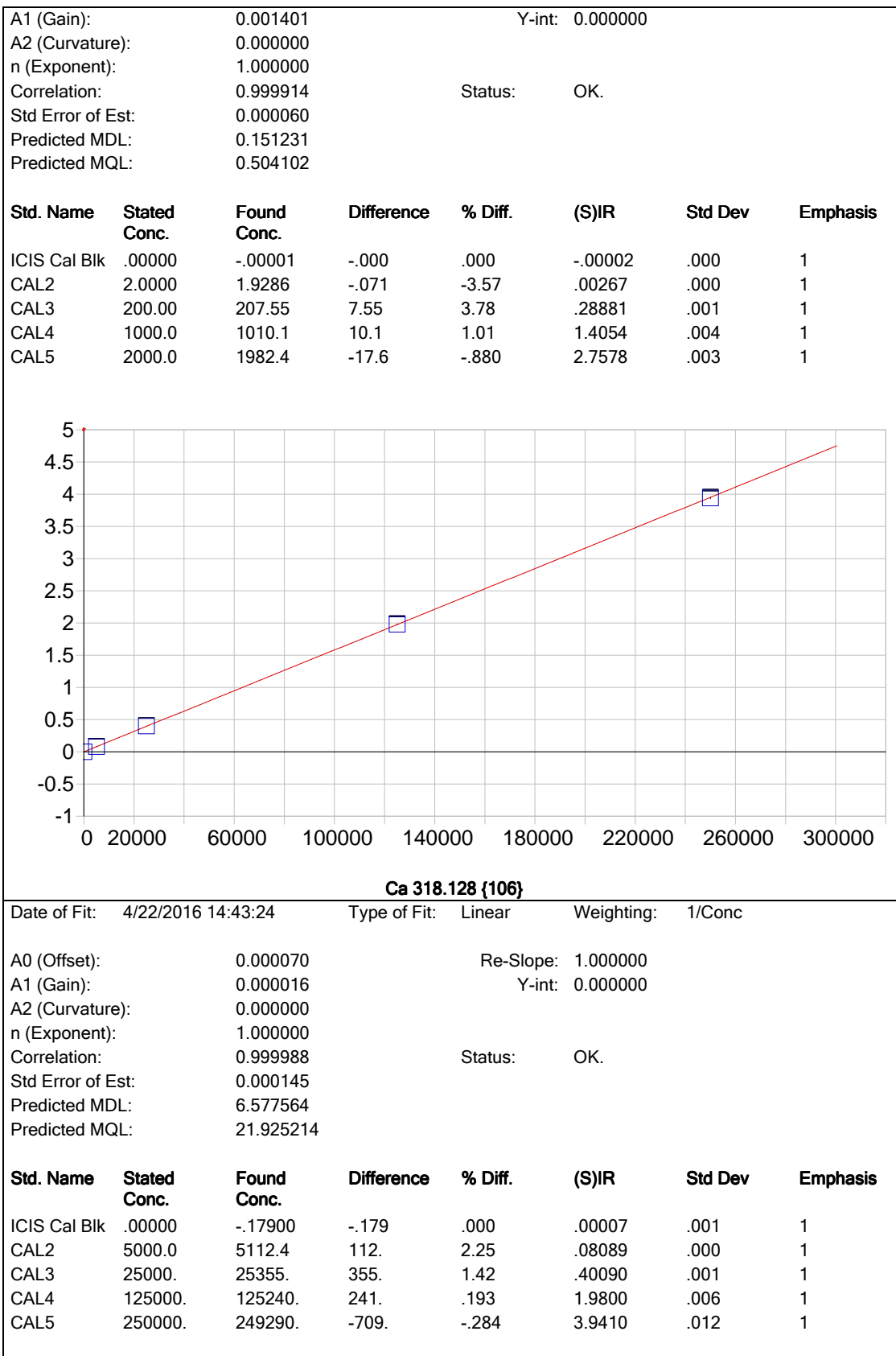
Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000	-.01933	-.019	.000	-.00000	.000	1
CAL2	200.00	209.91	9.91	4.96	.06376	.000	1
CAL3	2000.0	2090.9	90.9	4.54	.63463	.001	1
CAL4	10000.	10134.	134.	1.34	3.0757	.005	1
CAL5	20000.	19765.	-235.	-1.17	5.9989	.011	1

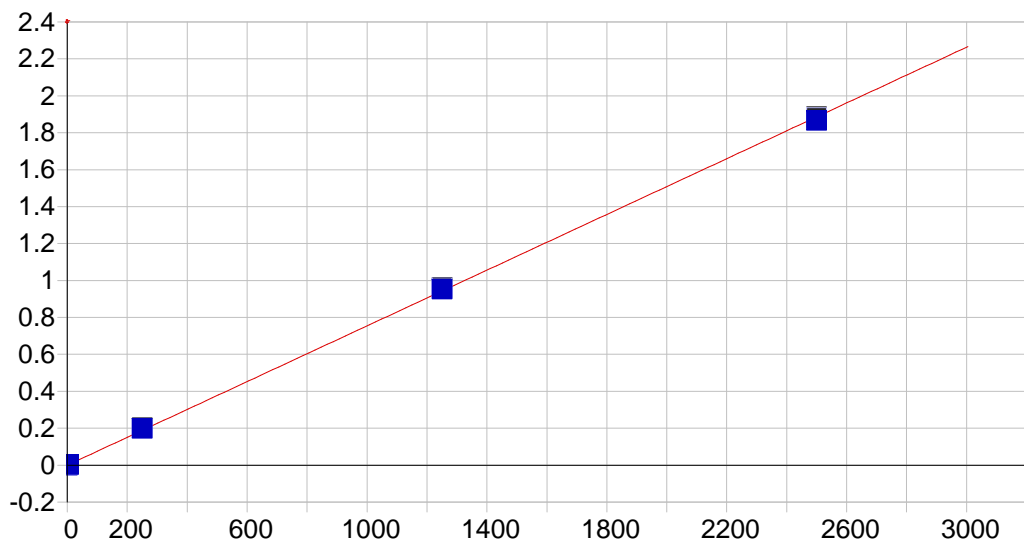


Be 313.042 {108}

Date of Fit: 4/22/2016 14:43:24 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): -0.000020 Re-Slope: 1.000000



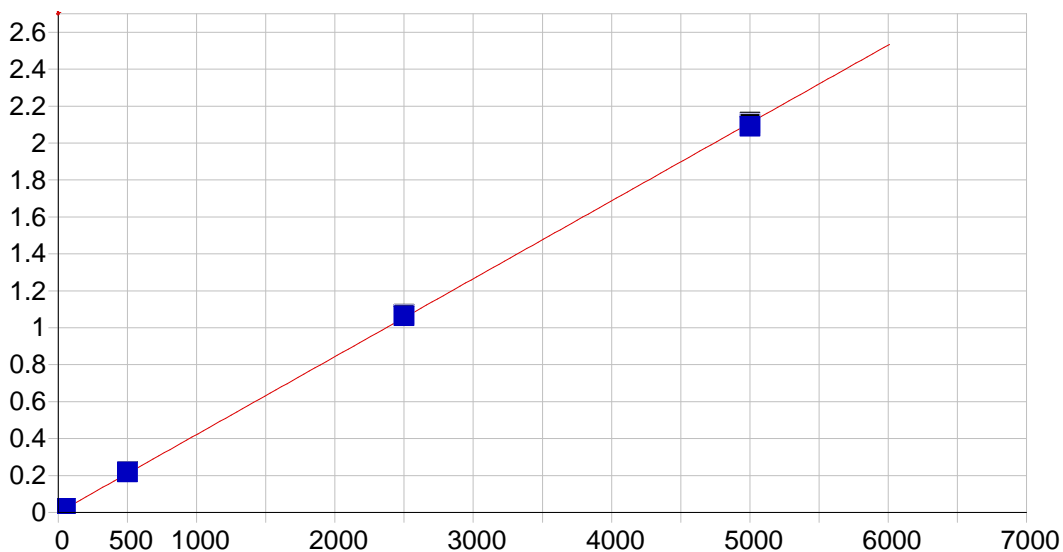


Cd 226.502 {449}

Date of Fit: 4/22/2016 14:43:24 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): -0.000304 Re-Slope: 1.000000
 A1 (Gain): 0.000754 Y-int: 0.000000
 A2 (Curvature): 0.000000
 n (Exponent): 1.000000
 Correlation: 0.999857 Status: OK.
 Std Error of Est: 0.000066
 Predicted MDL: 0.133667
 Predicted MQL: 0.445557

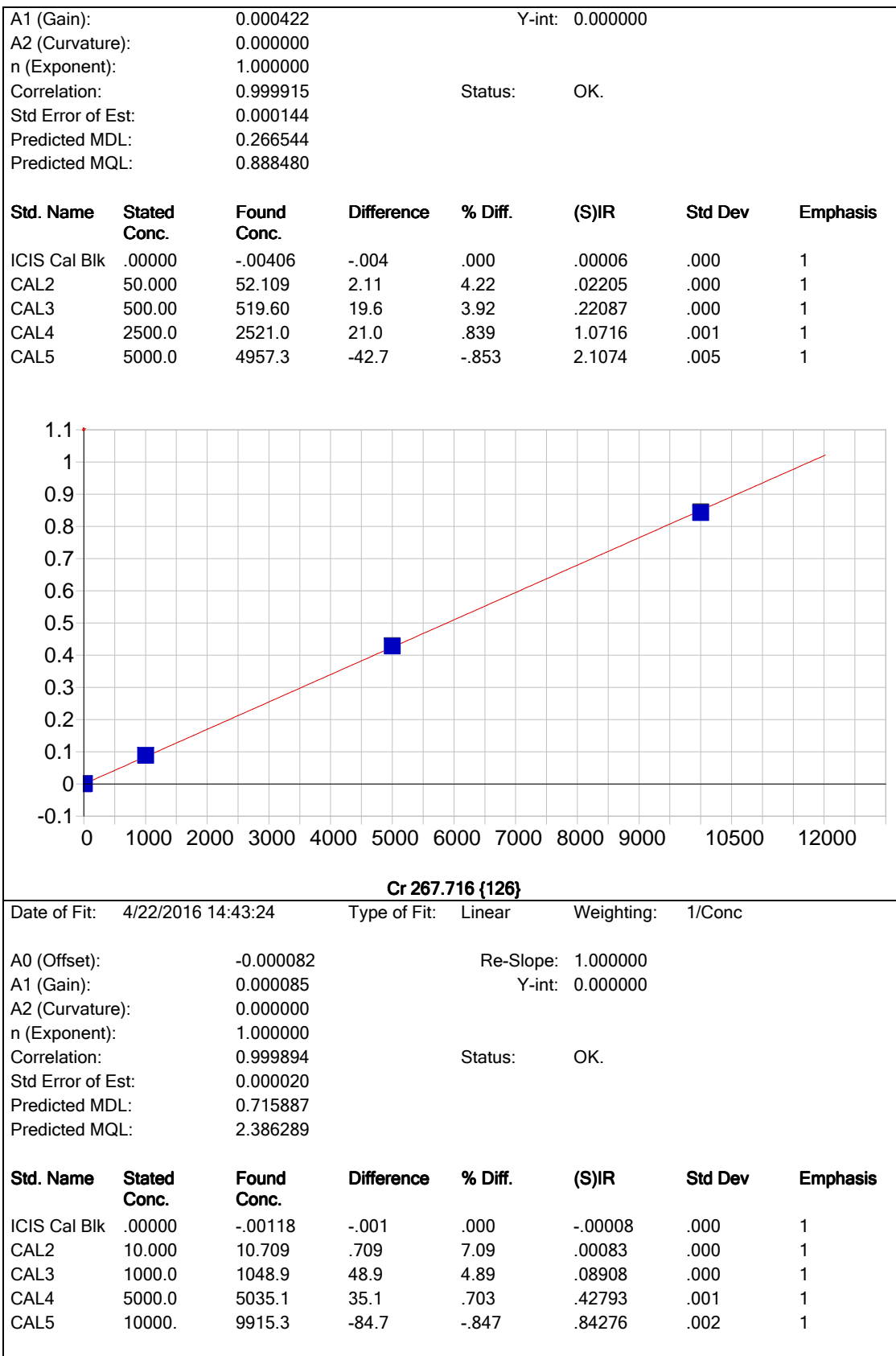
Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000	-.00039	-.000	.000	-.00030	.000	1
CAL2	4.0000	4.1688	.169	4.22	.00285	.000	1
CAL3	250.00	263.67	13.7	5.47	.20016	.000	1
CAL4	1250.0	1262.6	12.6	1.01	.95997	.002	1
CAL5	2500.0	2473.5	-26.5	-1.06	1.8812	.004	1

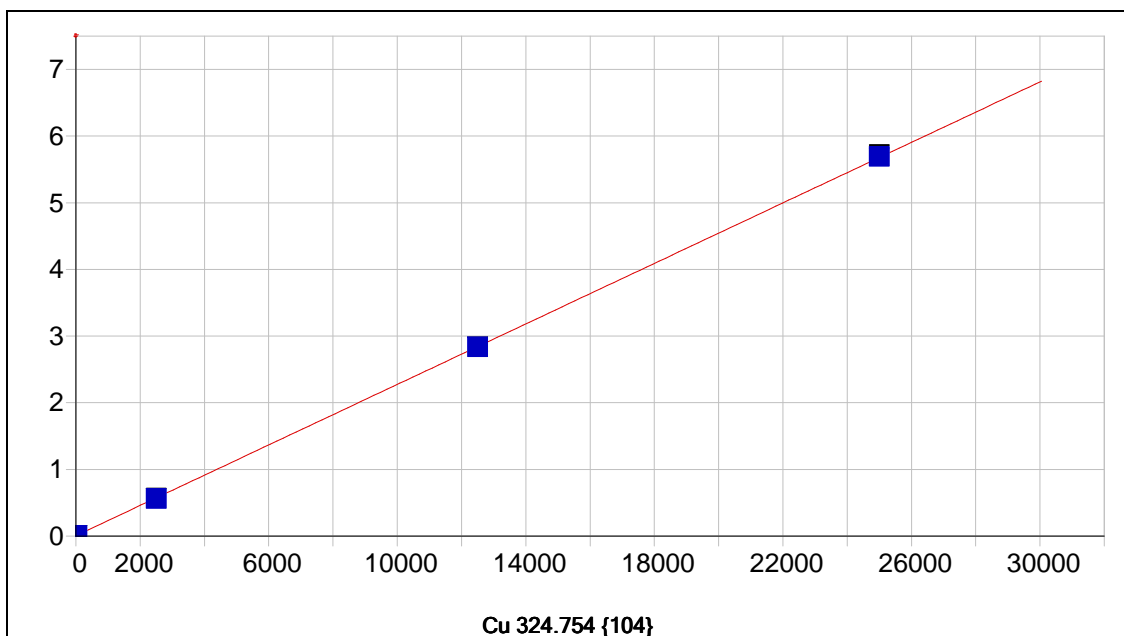


Co 228.616 {447}

Date of Fit: 4/22/2016 14:43:24 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.000066 Re-Slope: 1.000000

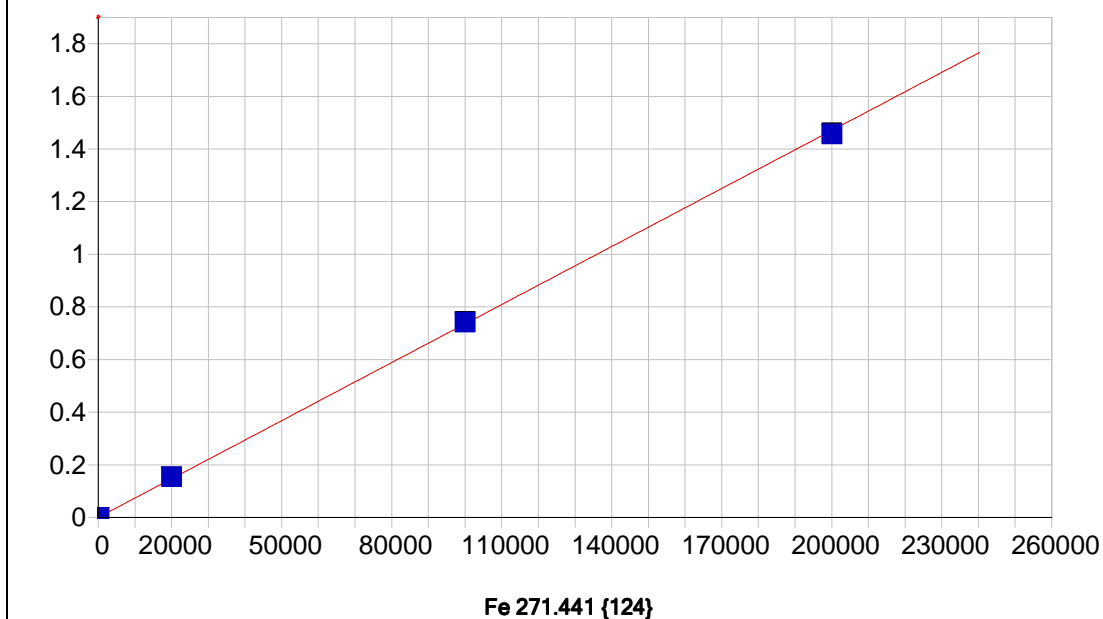




Date of Fit: 4/22/2016 14:43:24 Type of Fit: Linear Weighting: 1/Conc

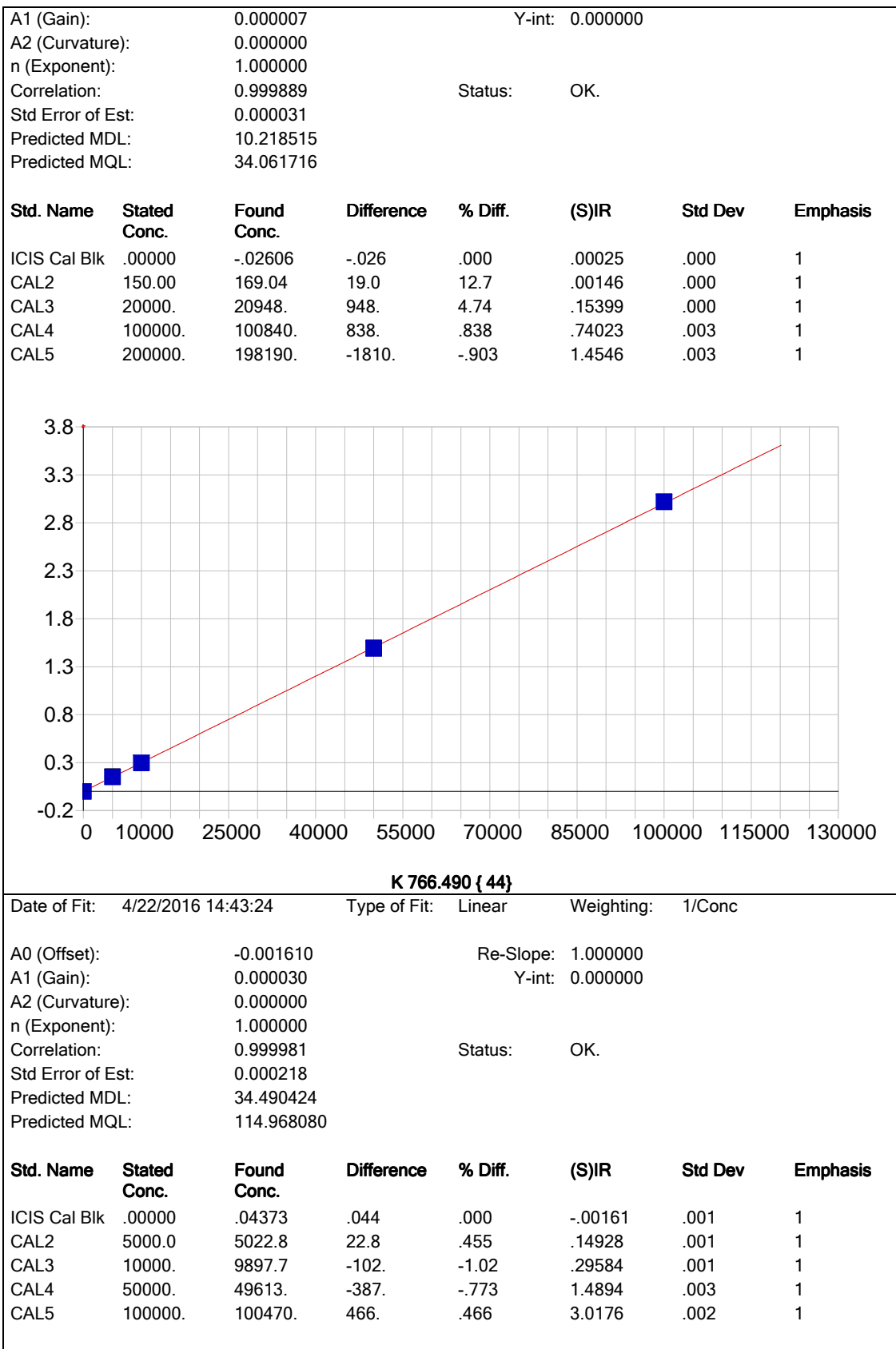
A0 (Offset): 0.005853 Re-Slope: 1.000000
 A1 (Gain): 0.000227 Y-int: 0.000000
 A2 (Curvature): 0.000000
 n (Exponent): 1.000000
 Correlation: 0.999988 Status: OK.
 Std Error of Est: 0.000046
 Predicted MDL: 0.458403
 Predicted MQL: 1.528009

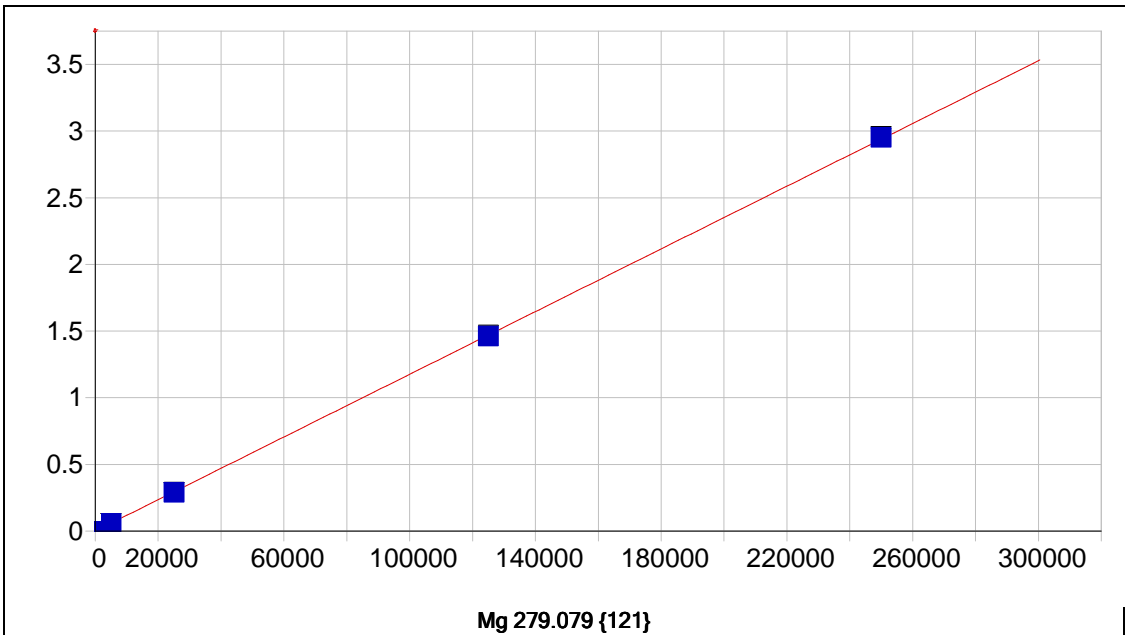
Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000	.00116	.001	.000	.00585	.000	1
CAL2	25.000	24.242	-.758	-3.03	.01135	.000	1
CAL3	2500.0	2457.5	-42.5	-1.70	.56335	.002	1
CAL4	12500.	12476.	-23.6	-.189	2.8362	.006	1
CAL5	25000.	25067.	66.9	.268	5.6925	.023	1



Date of Fit: 4/22/2016 14:43:24 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.000252 Re-Slope: 1.000000

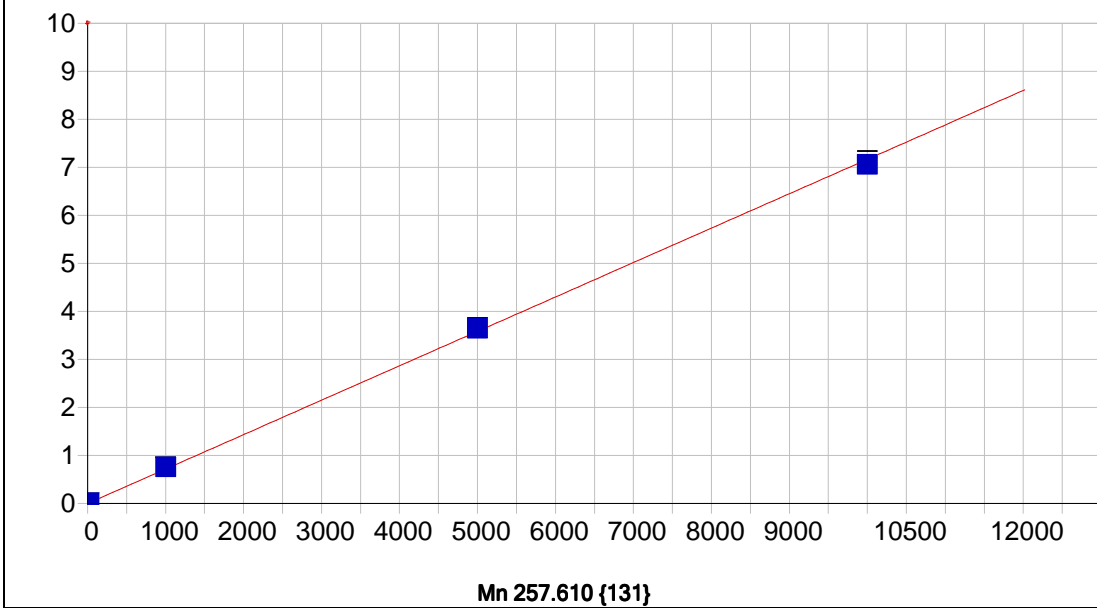




Date of Fit: 4/22/2016 14:43:24 Type of Fit: Linear Weighting: 1/Conc

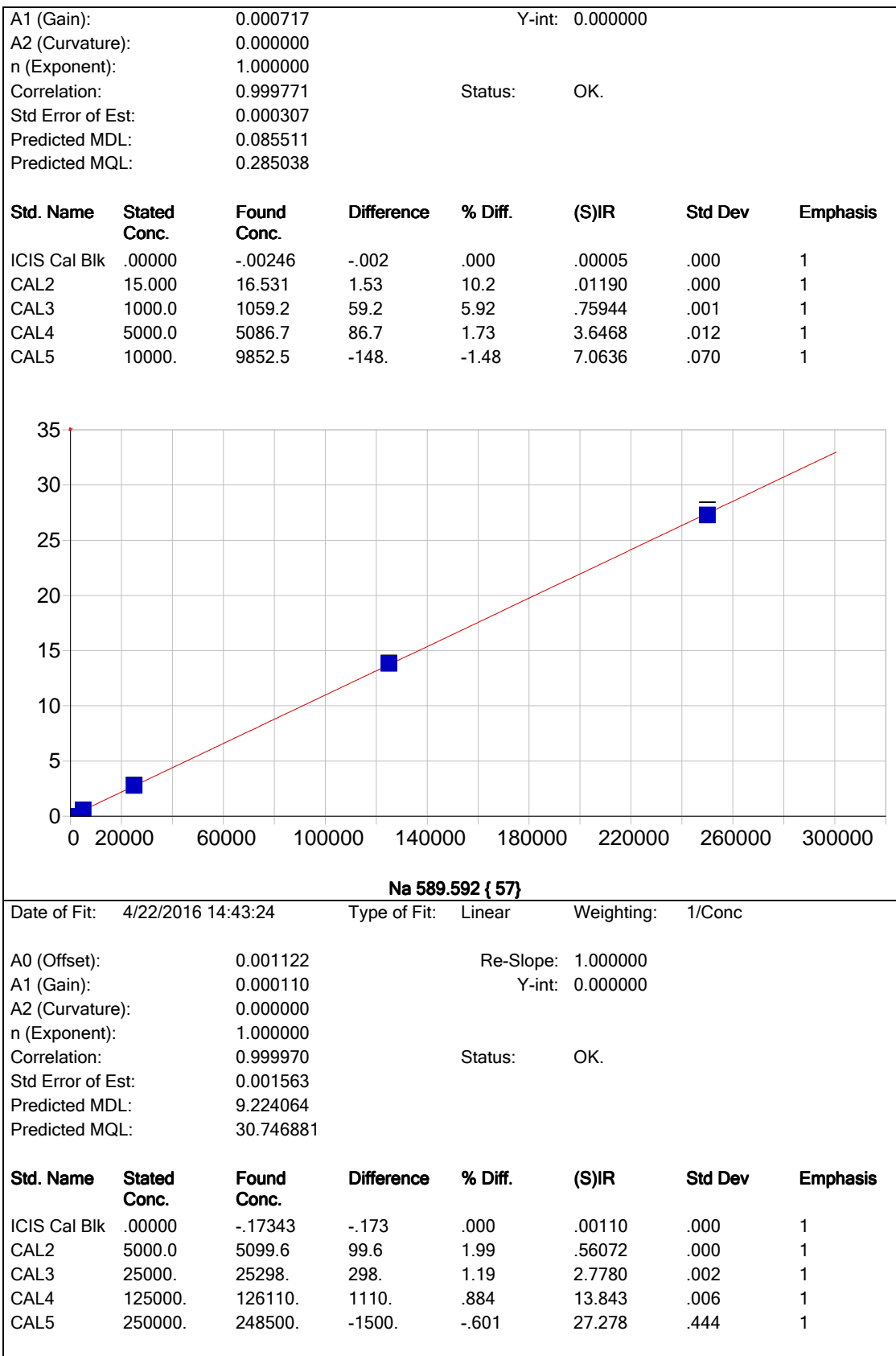
A0 (Offset): 0.000476 Re-Slope: 1.000000
 A1 (Gain): 0.000012 Y-int: 0.000000
 A2 (Curvature): 0.000000
 n (Exponent): 1.000000
 Correlation: 0.999978 Status: OK.
 Std Error of Est: 0.000144
 Predicted MDL: 5.726026
 Predicted MQL: 19.086753

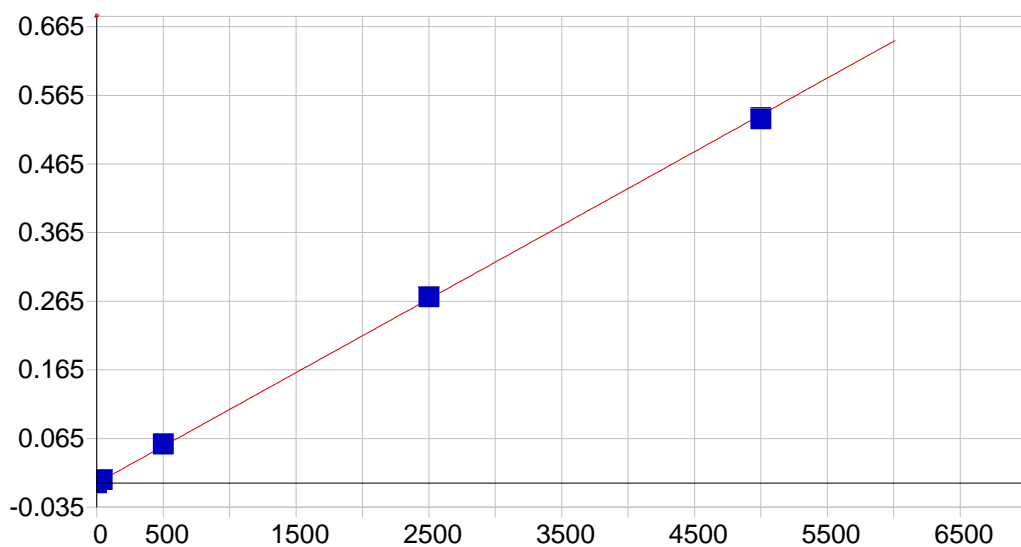
Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000	.19442	.194	.000	.00048	.000	1
CAL2	5000.0	4891.4	-109.	-2.17	.05798	.000	1
CAL3	25000.	24581.	-419.	-1.67	.28926	.001	1
CAL4	125000.	124370.	-634.	-.507	1.4615	.006	1
CAL5	250000.	251160.	1160.	.465	2.9512	.008	1



Date of Fit: 4/22/2016 14:43:24 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.000053 Re-Slope: 1.000000



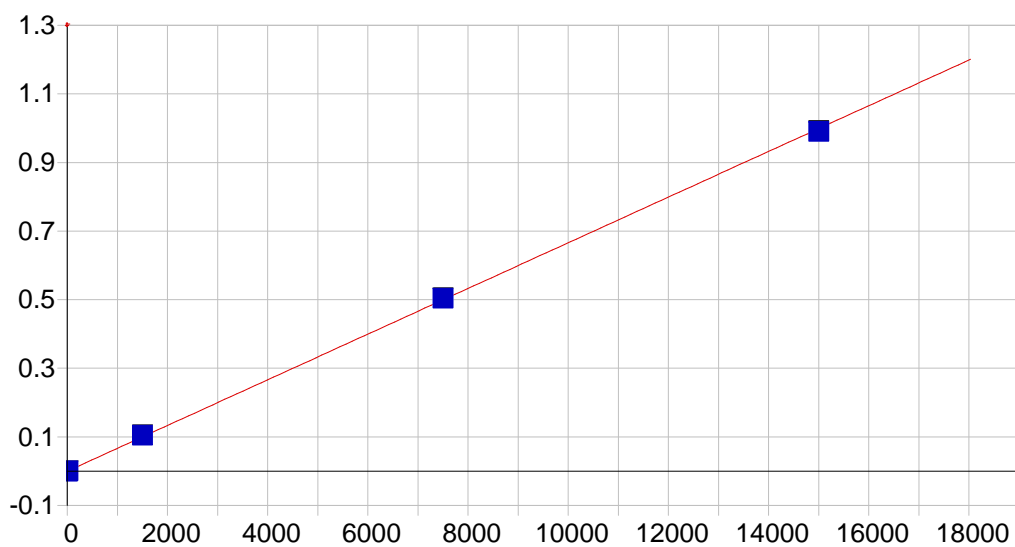


Ni 231.604 {446}

Date of Fit: 4/22/2016 14:43:24 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): -0.000040 Re-Slope: 1.000000
 A1 (Gain): 0.000107 Y-int: 0.000000
 A2 (Curvature): 0.000000
 n (Exponent): 1.000000
 Correlation: 0.999828 Status: OK.
 Std Error of Est: 0.000046
 Predicted MDL: 0.720305
 Predicted MQL: 2.401015

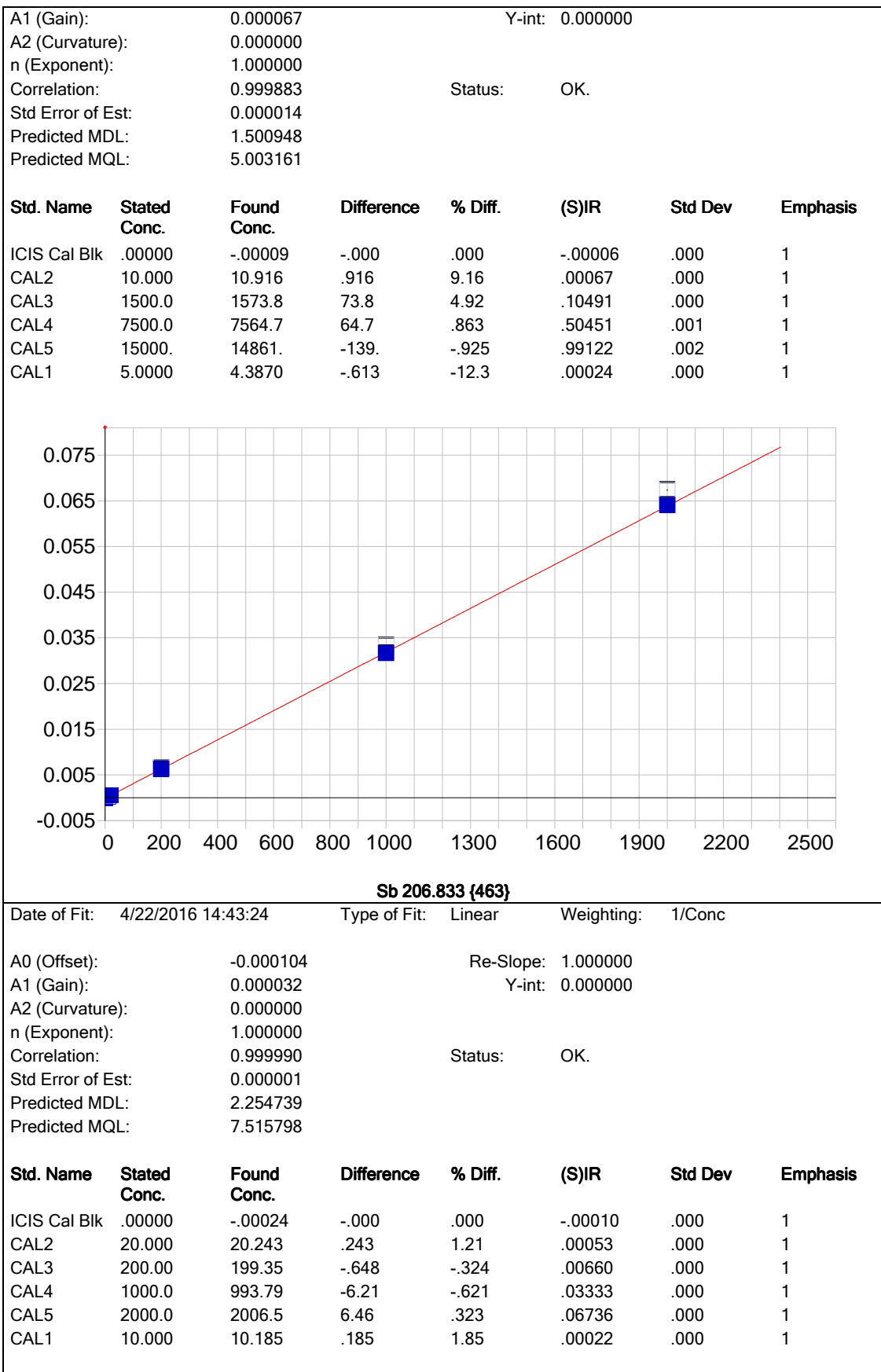
Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000	-.00508	-.005	.000	-.00004	.000	1
CAL2	40.000	42.859	2.86	7.15	.00456	.000	1
CAL3	500.00	528.05	28.0	5.61	.05668	.000	1
CAL4	2500.0	2527.6	27.6	1.10	.27148	.001	1
CAL5	5000.0	4941.5	-58.5	-1.17	.53080	.001	1

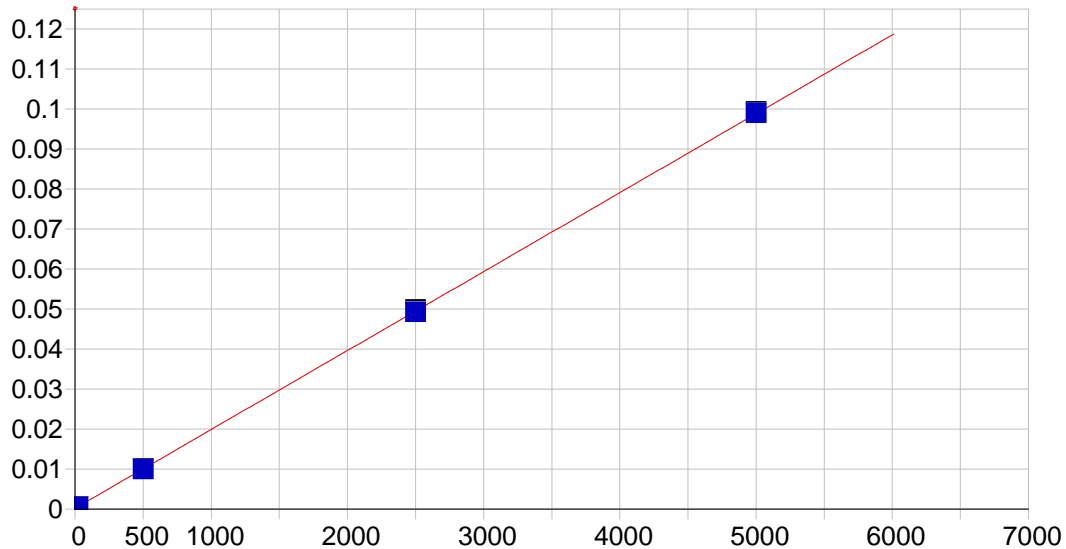


Pb 220.353 {453}

Date of Fit: 4/22/2016 14:43:24 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): -0.000056 Re-Slope: 1.000000



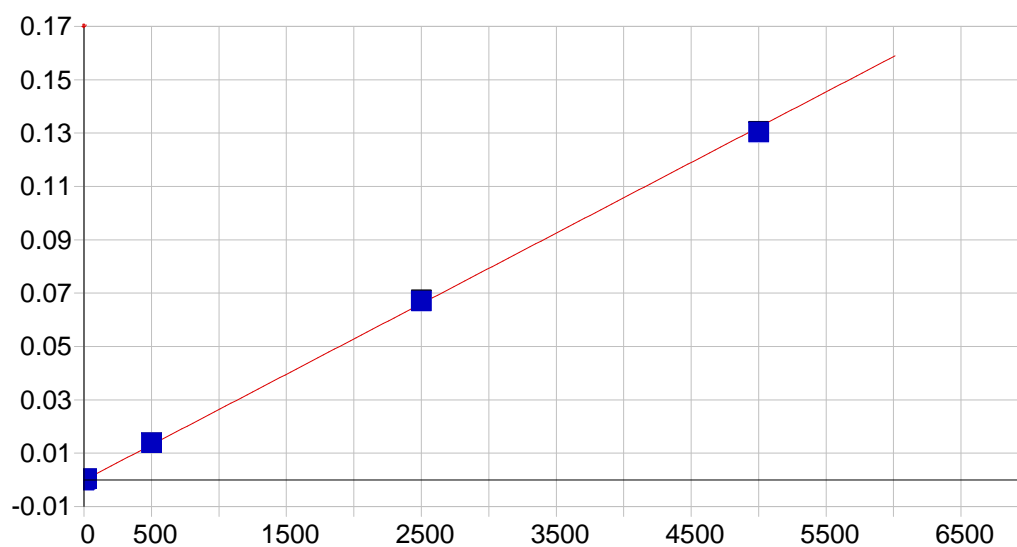


Se 196.090 {472}

Date of Fit: 4/22/2016 14:43:24 Type of Fit: Linear Weighting: 1/Conc

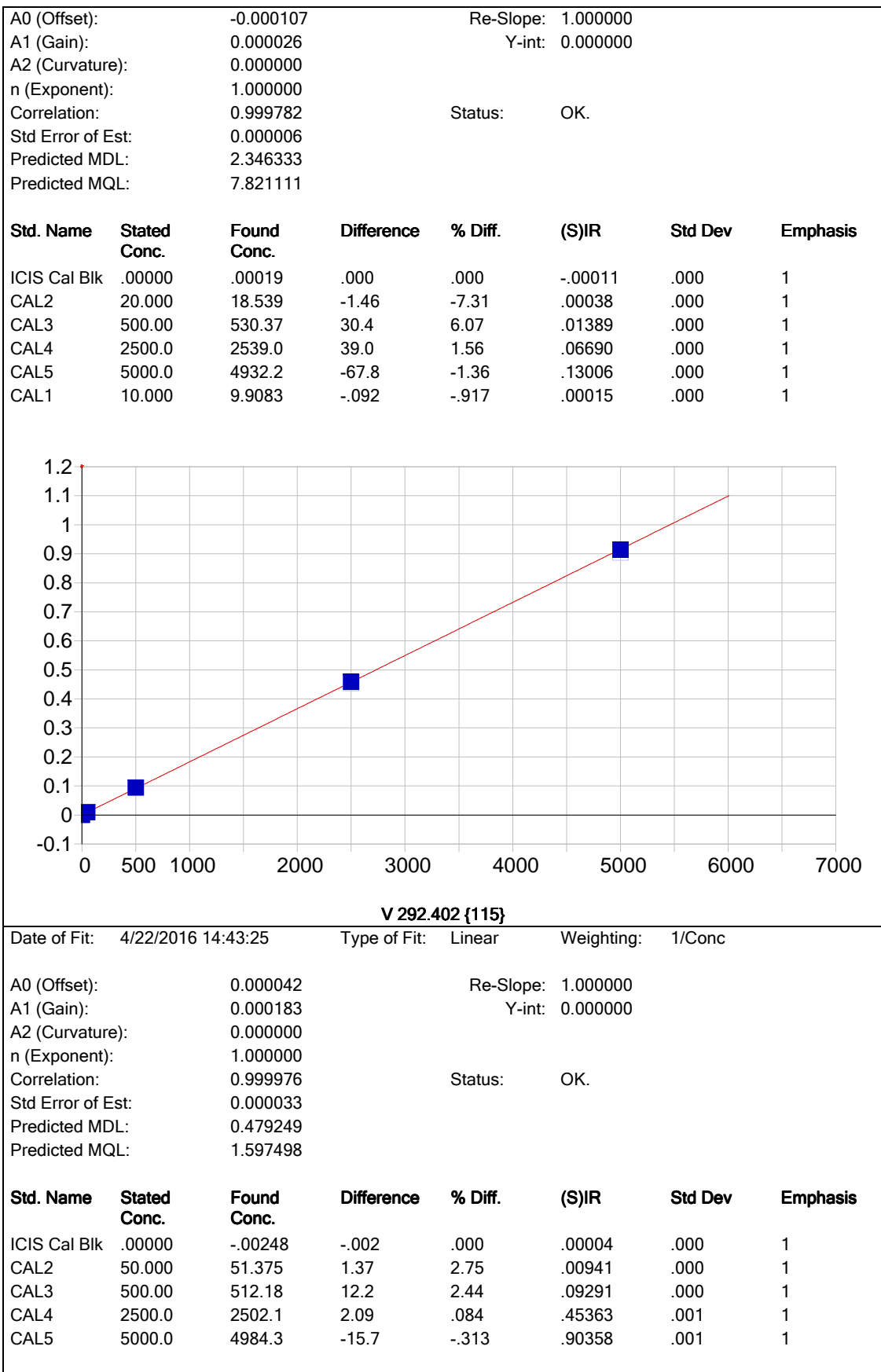
A0 (Offset): 0.000176 Re-Slope: 1.000000
 A1 (Gain): 0.000020 Y-int: 0.000000
 A2 (Curvature): 0.000000
 n (Exponent): 1.000000
 Correlation: 0.999985 Status: OK.
 Std Error of Est: 0.000001
 Predicted MDL: 3.138631
 Predicted MQL: 10.462103

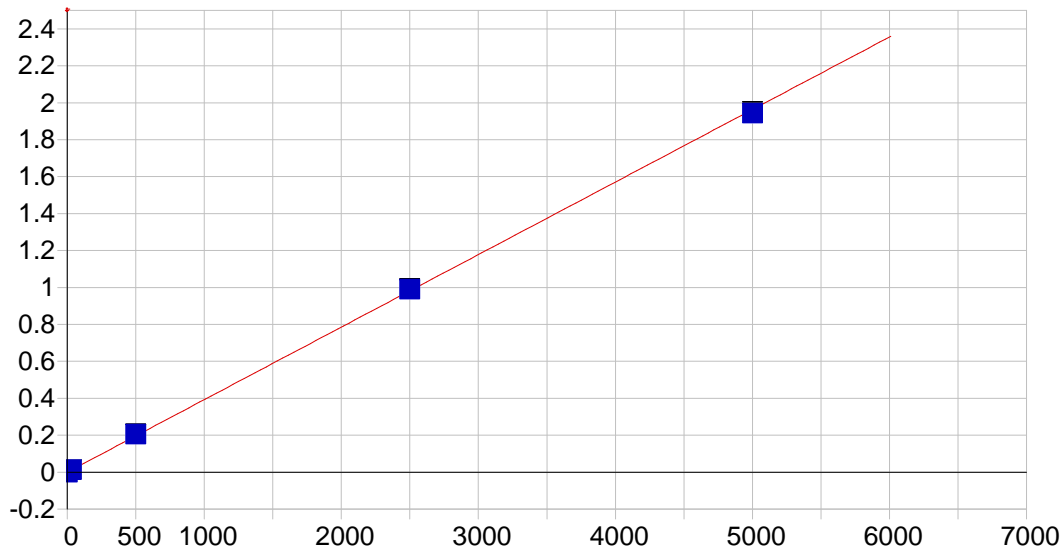
Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000	-.00094	-.001	.000	.00018	.000	1
CAL2	20.000	20.847	.847	4.24	.00059	.000	1
CAL3	500.00	496.06	-3.94	-.789	.00997	.000	1
CAL4	2500.0	2490.9	-9.07	-.363	.04935	.000	1
CAL5	5000.0	5011.4	11.4	.228	.09911	.000	1
CAL1	5.0000	5.7754	.775	15.5	.00029	.000	1



TI 190.856 {477}

Date of Fit: 4/22/2016 14:43:24 Type of Fit: Linear Weighting: 1/Conc



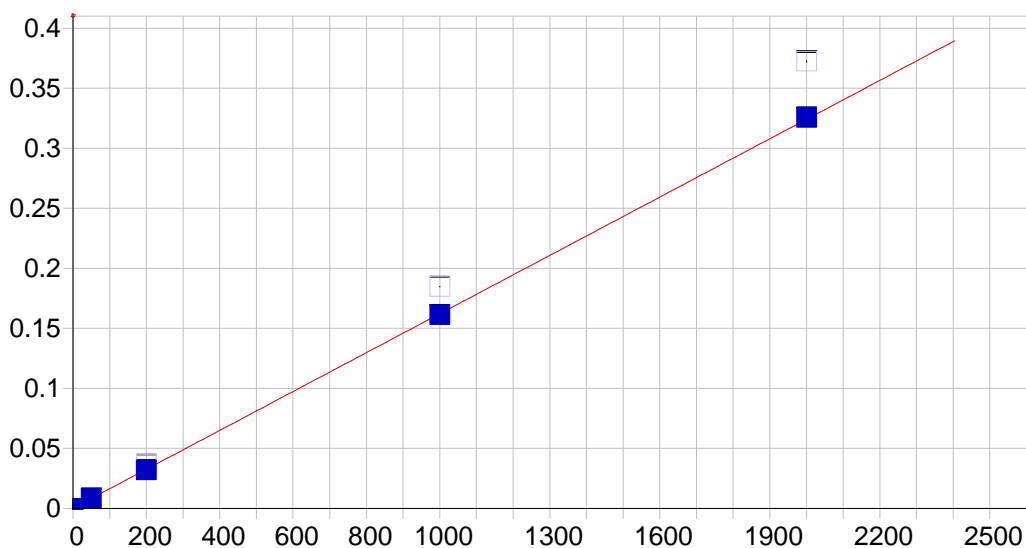


Zn 206.200 {463}

Date of Fit: 4/22/2016 14:43:25 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): -0.000051 Re-Slope: 1.000000
 A1 (Gain): 0.000393 Y-int: 0.000000
 A2 (Curvature): 0.000000
 n (Exponent): 1.000000
 Correlation: 0.999856 Status: OK.
 Std Error of Est: 0.000133
 Predicted MDL: 0.196848
 Predicted MQL: 0.656160

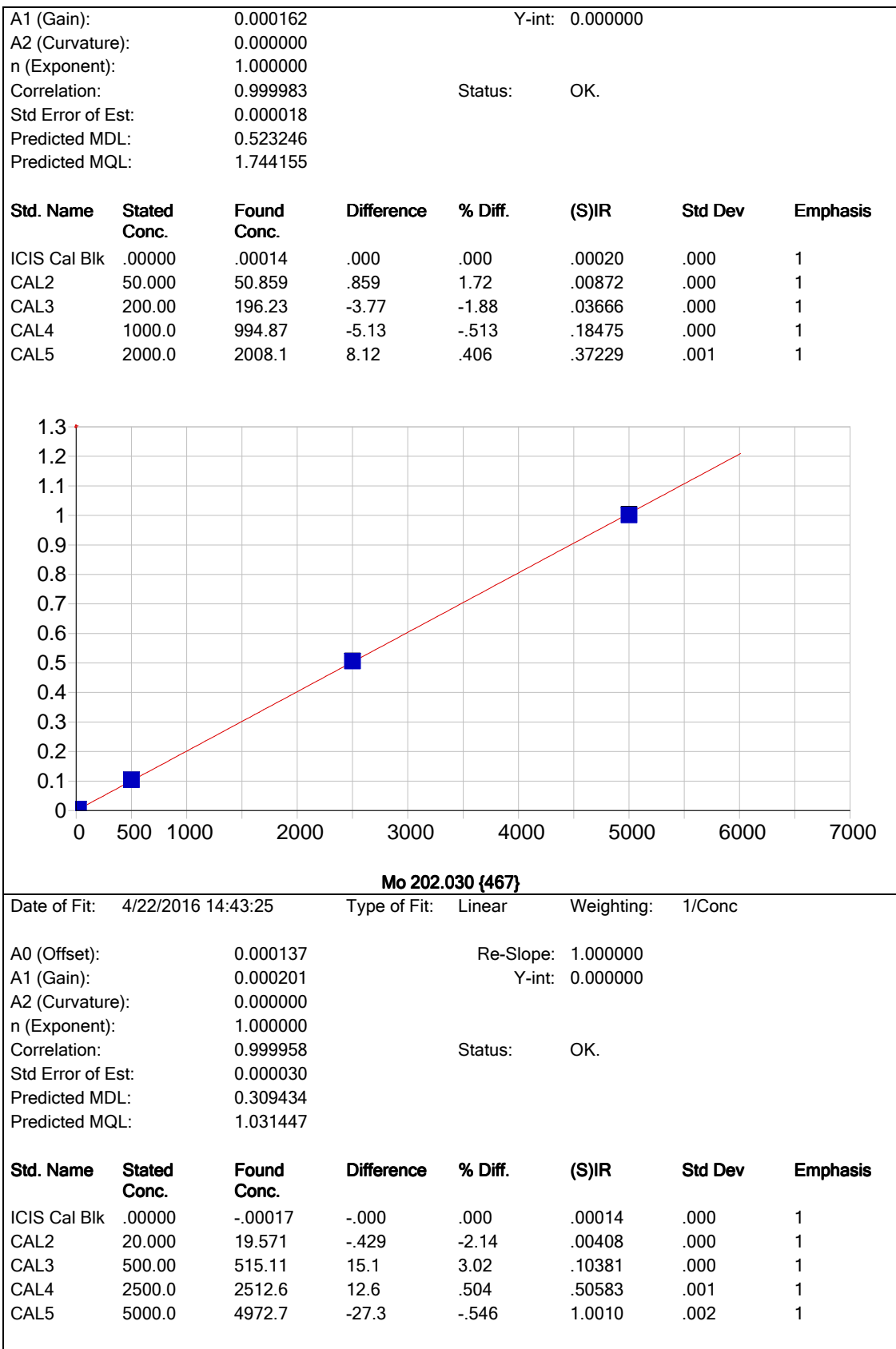
Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000	-.00518	-.005	.000	-.00005	.000	1
CAL2	30.000	33.769	3.77	12.6	.01320	.000	1
CAL3	500.00	524.20	24.2	4.84	.20555	.000	1
CAL4	2500.0	2521.0	21.0	.840	.98867	.004	1
CAL5	5000.0	4951.0	-49.0	-9.79	1.9417	.009	1

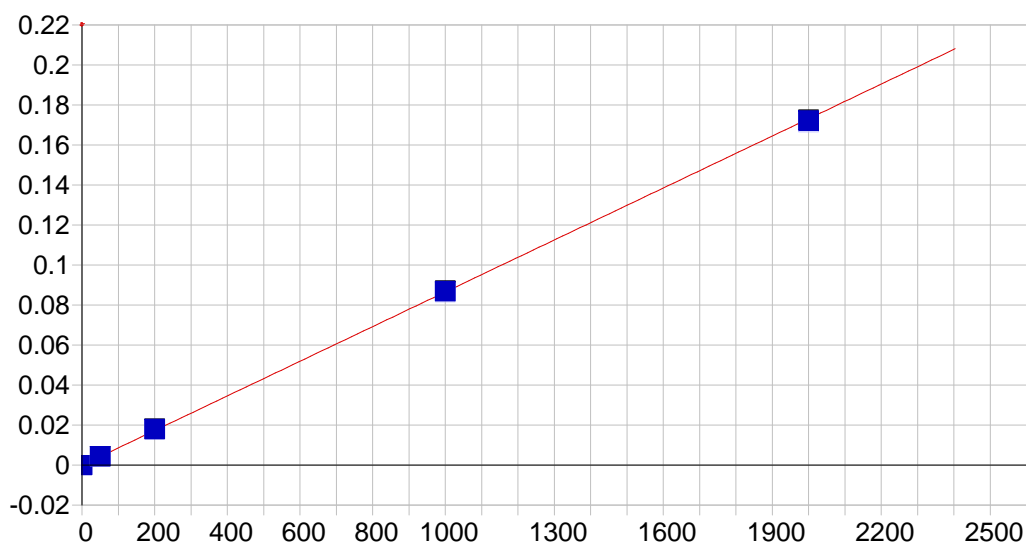


B 208.959 {461}

Date of Fit: 4/22/2016 14:43:25 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.000196 Re-Slope: 1.000000



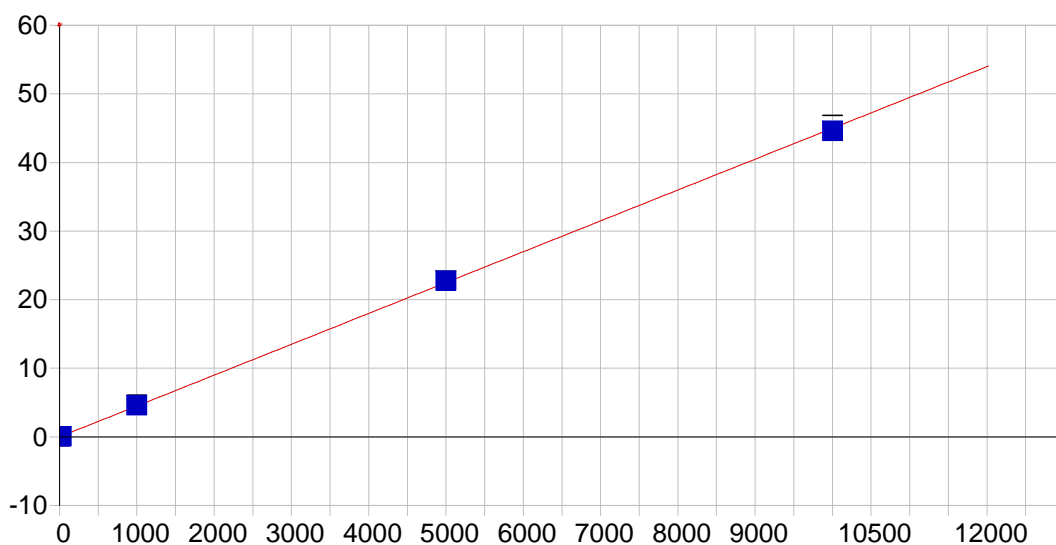


Sn 189.989 {477}

Date of Fit: 4/22/2016 14:43:25 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): -0.000074 Re-Slope: 1.000000
 A1 (Gain): 0.000087 Y-int: 0.000000
 A2 (Curvature): 0.000000
 n (Exponent): 1.000000
 Correlation: 0.999939 Status: OK.
 Std Error of Est: 0.000016
 Predicted MDL: 0.718895
 Predicted MQL: 2.396317

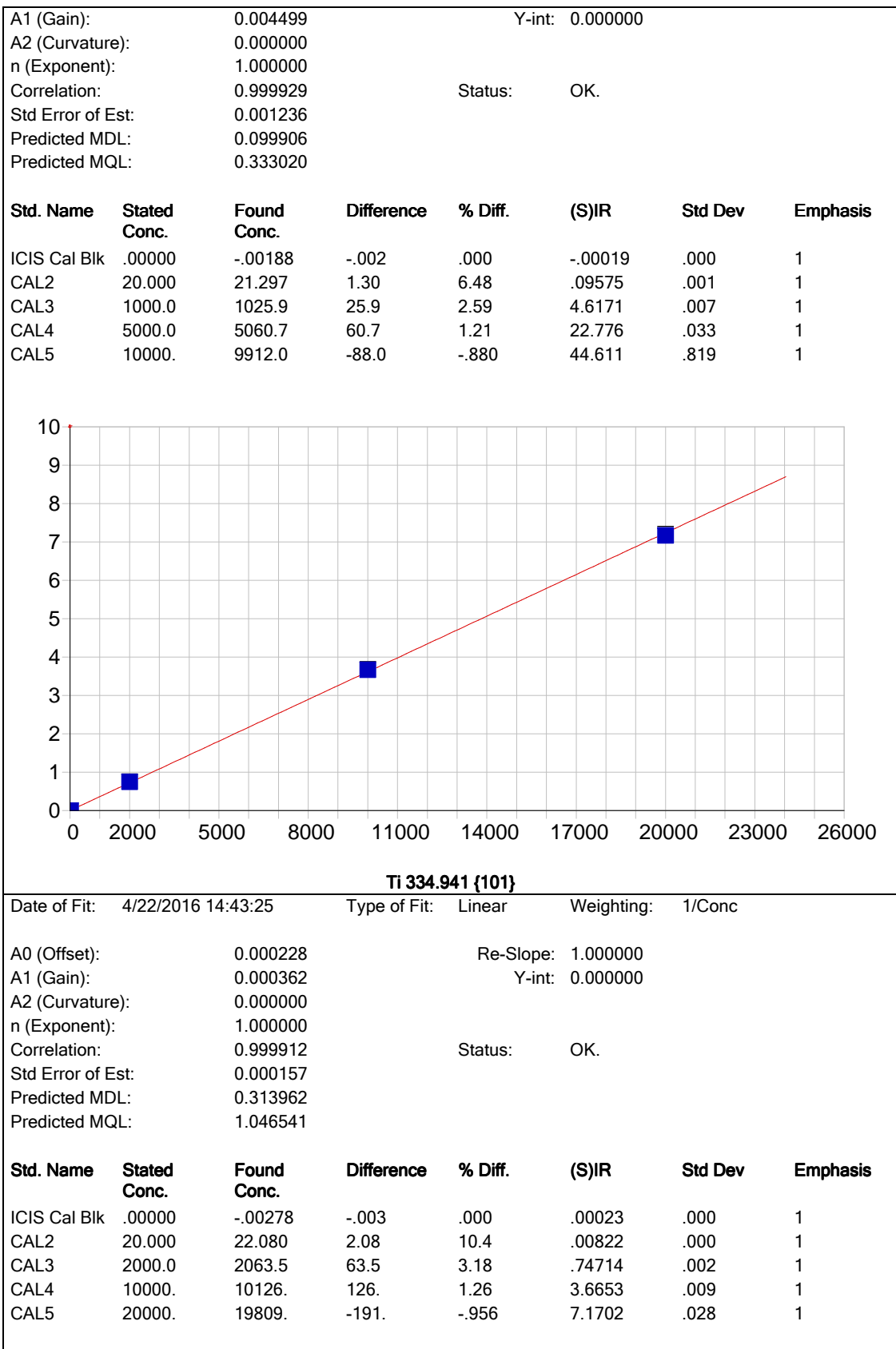
Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000	-.00221	-.002	.000	-.00007	.000	1
CAL2	50.000	50.372	.372	.743	.00429	.000	1
CAL3	200.00	207.78	7.78	3.89	.01784	.000	1
CAL4	1000.0	1003.7	3.72	.372	.08647	.000	1
CAL5	2000.0	1988.1	-11.9	-.594	.17135	.000	1

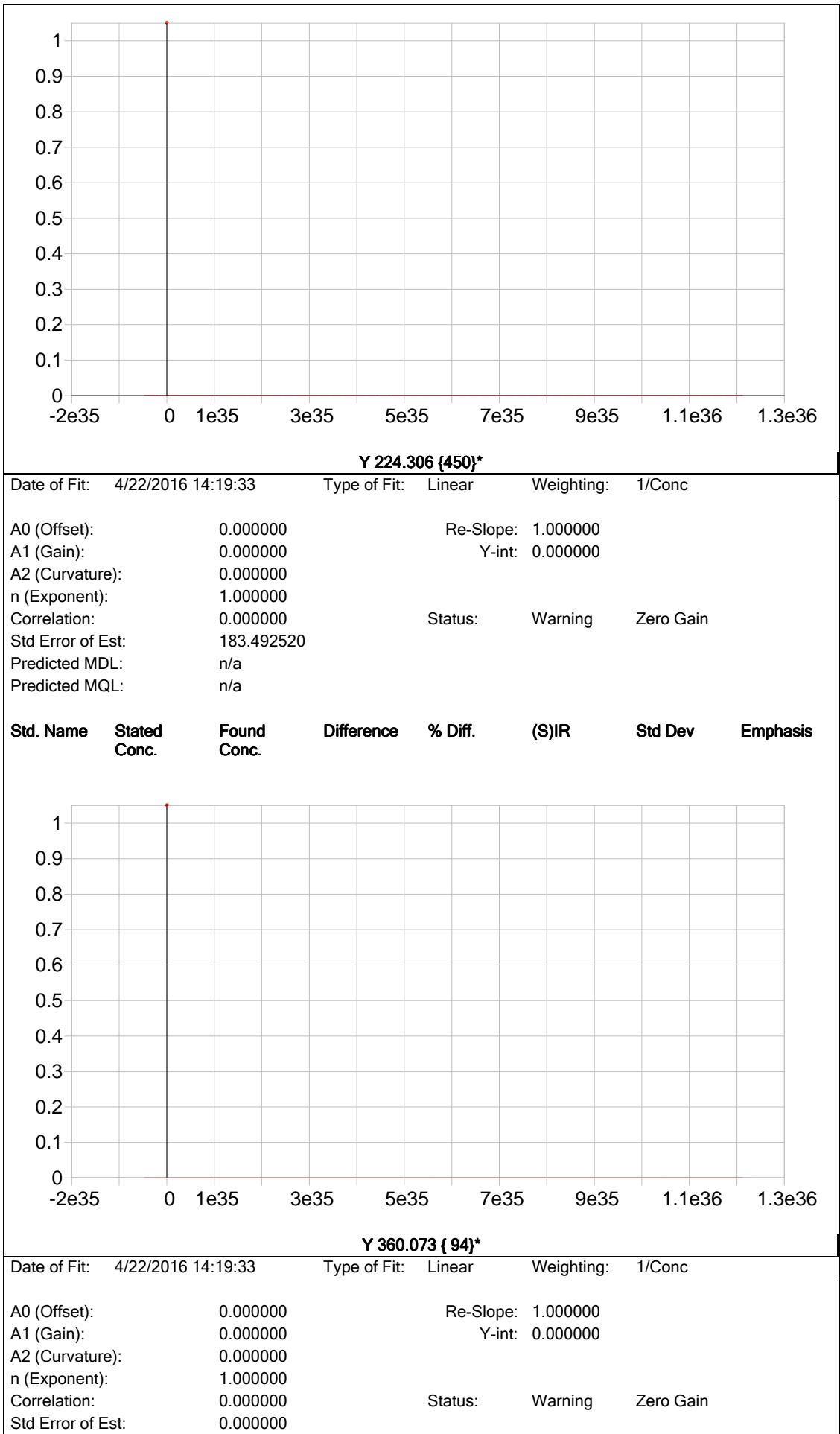


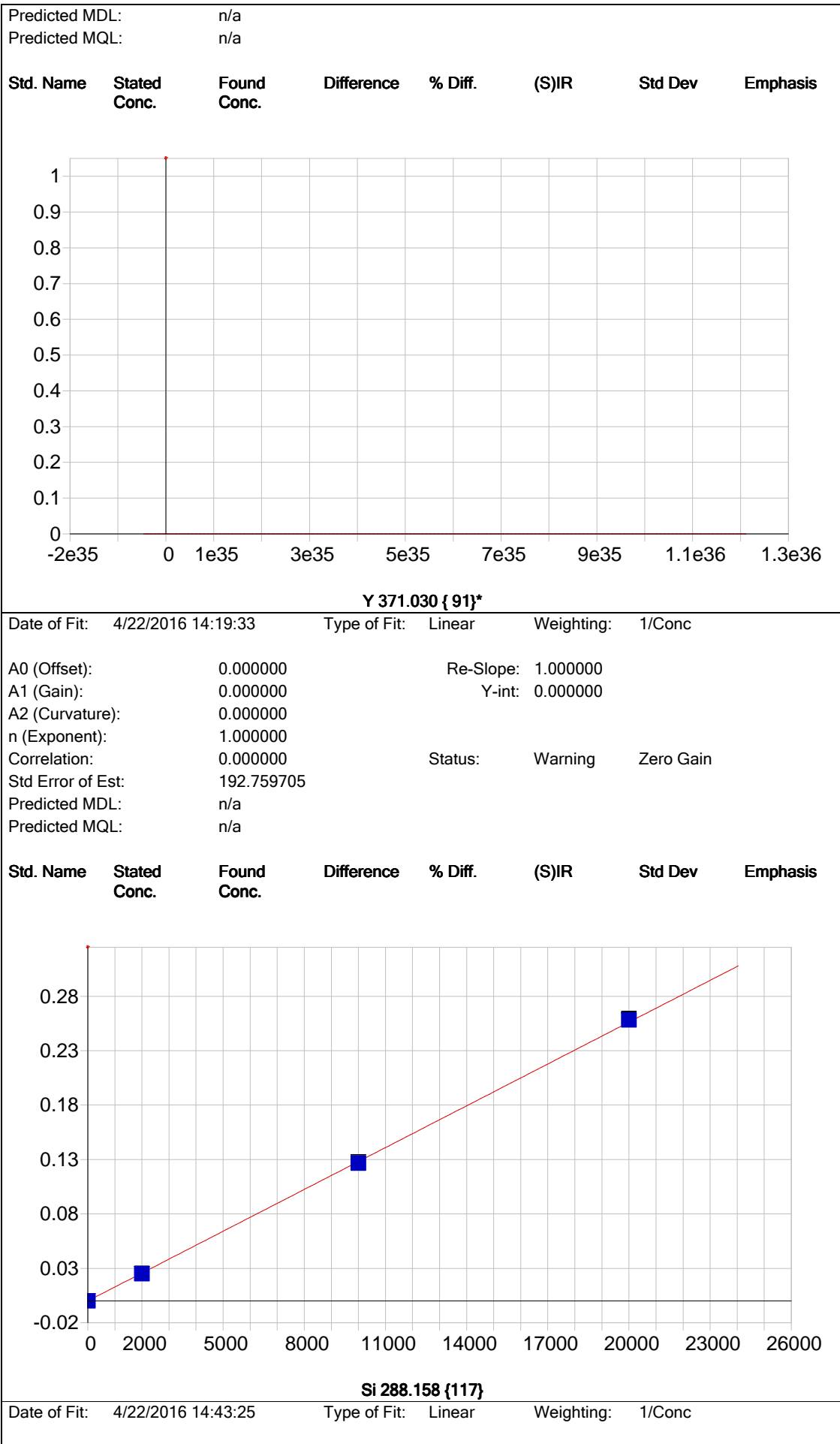
Sr 407.771 {83}

Date of Fit: 4/22/2016 14:43:25 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): -0.000180 Re-Slope: 1.000000







A0 (Offset):	0.000054	Re-Slope:	1.000000
A1 (Gain):	0.000013	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999934	Status:	OK.
Std Error of Est:	0.000053		
Predicted MDL:	17.371024		
Predicted MQL:	57.903413		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000	.06126	.061	.000	.00005	.000	1
CAL5	20000.	20168.	168.	.840	.25797	.001	1
CAL3	2000.0	1944.4	-55.6	-2.78	.02492	.000	1
CAL4	10000.	9887.5	-113.	-1.13	.12649	.001	1

Sample Name: ICIS Cal Blk Acquired: 4/22/2016 14:20:59 Type: Cal
Method: BC042116(v5) Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0001	-.0002	.0001	-.0000	-.0000	.0001
Stddev	.0013	.0000	.0001	.0001	.0003	.0007
%RSD	1866.	10.07	52.11	2365.	1655.	1069.

#1	-.0004	-.0002	.0001	.0001	.0002	-.0002
#2	.0015	-.0002	.0002	-.0000	-.0004	.0009
#3	-.0009	-.0002	.0002	-.0001	.0002	-.0005

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	-.0003	.0001	-.0001	.0059	.0003	-.0016
Stddev	.0001	.0001	.0000	.0000	.0001	.0012
%RSD	17.84	81.79	7.508	.4105	57.05	75.86

#1	-.0003	.0000	-.0001	.0059	.0001	-.0029
#2	-.0004	.0001	-.0001	.0058	.0004	-.0014
#3	-.0003	.0001	-.0001	.0059	.0002	-.0005

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0005	.0001	.0011	-.0000	-.0001	-.0001
Stddev	.0004	.0000	.0004	.0000	.0001	.0001
%RSD	86.22	20.84	34.35	17.58	102.3	49.40

#1	.0002	.0001	.0015	-.0000	-.0001	-.0002
#2	.0010	.0000	.0009	-.0000	.0000	-.0001
#3	.0002	.0001	.0009	-.0000	-.0001	-.0001

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0002	-.0001	.0000	-.0001	.0002	.0001
Stddev	.0001	.0000	.0001	.0000	.0001	.0000
%RSD	40.10	37.87	127.9	90.44	45.96	35.21

#1	.0002	-.0001	-.0000	-.0000	.0001	.0001
#2	.0002	-.0001	.0001	-.0000	.0003	.0001
#3	.0001	-.0001	.0001	-.0001	.0002	.0002

Sample Name: ICIS Cal Blk Acquired: 4/22/2016 14:20:59 Type: Cal
Method: BC042116(v5) Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	-.0001	-.0002	.0002	.0001
Stddev	.0000	.0003	.0001	.0002
%RSD	56.73	149.6	23.37	365.3

#1	-.0001	-.0003	.0002	-.0000
#2	-.0000	.0001	.0002	.0003
#3	-.0001	-.0004	.0003	-.0001

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	9423.3	47841.	10660.
Stddev	50.3	263.	112.
%RSD	.53403	.55070	1.0501

#1	9469.0	47804.	10564.
#2	9431.4	47598.	10783.
#3	9369.4	48121.	10633.

Sample Name: CAL1 Acquired: 4/22/2016 14:24:47 Type: Cal
Method: BC042116(v5) Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Pb2203	Sb2068	Se196	Tl1908
Line	189.042 {478}	220.353 {453}	206.833 {463}	196.090 {472}	190.856 {477}
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	-.0001	.0002	.0002	.0003	.0002
Stddev	.0001	.0001	.0000	.0000	.0001
%RSD	104.9	40.57	19.94	10.67	35.28

#1	-.0000	.0003	.0002	.0003	.0002
#2	-.0000	.0001	.0003	.0003	.0001
#3	-.0001	.0003	.0002	.0003	.0001

Int. Std.	Y_2243
Line	224.306 {450}
Units	Cts/S
Avg	9511.7
Stddev	66.1
%RSD	.69509

#1	9586.7
#2	9461.9
#3	9486.5

Sample Name: CAL2 Acquired: 4/22/2016 14:28:39 Type: Cal
Method: BC042116(v5) Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0043	.0002	.0016	.0638	.0027	.0809
Stddev	.0003	.0000	.0000	.0001	.0001	.0004
%RSD	5.889	3.013	1.460	.1813	3.898	.4364

#1	.0040	.0002	.0016	.0636	.0026	.0810
#2	.0043	.0002	.0015	.0638	.0027	.0811
#3	.0045	.0002	.0016	.0639	.0028	.0805

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0029	.0221	.0008	.0113	.0015	.1493
Stddev	.0001	.0001	.0001	.0001	.0000	.0008
%RSD	1.822	.6375	6.556	1.021	2.508	.5041

#1	.0028	.0220	.0008	.0114	.0014	.1485
#2	.0029	.0219	.0009	.0114	.0014	.1494
#3	.0029	.0222	.0008	.0112	.0015	.1500

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0580	.0119	.5607	.0046	.0007	.0005
Stddev	.0001	.0000	.0002	.0001	.0001	.0000
%RSD	.2574	.2783	.0336	1.489	12.41	2.967

#1	.0578	.0119	.5606	.0046	.0006	.0005
#2	.0580	.0119	.5607	.0046	.0007	.0005
#3	.0581	.0119	.5609	.0045	.0007	.0005

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0006	.0004	.0094	.0132	.0087	.0041
Stddev	.0000	.0000	.0001	.0001	.0001	.0000
%RSD	4.335	10.79	1.189	.5205	1.679	.9846

#1	.0006	.0004	.0093	.0131	.0087	.0040
#2	.0006	.0003	.0094	.0133	.0086	.0041
#3	.0006	.0004	.0095	.0132	.0089	.0041

Sample Name: CAL2 Acquired: 4/22/2016 14:28:39 Type: Cal
Method: BC042116(v5) Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349
Line	189.989 {477}	407.771 { 83}	334.941 {101}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)
Units	Cts/S	Cts/S	Cts/S
Avg	.0043	.0958	.0082
Stddev	.0001	.0010	.0001
%RSD	1.701	1.061	1.022

#1	.0042	.0951	.0083
#2	.0043	.0952	.0081
#3	.0044	.0969	.0083

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	9395.9	47932.	10612.
Stddev	59.5	297.	66.
%RSD	.63273	.61957	.62065

#1	9366.0	47753.	10539.
#2	9357.3	47768.	10667.
#3	9464.3	48275.	10629.

Sample Name: CAL3 Acquired: 4/22/2016 14:32:27 Type: Cal
Method: BC042116(v5) Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.6290	.0117	.0375	.6346	.2888	.4009
Stddev	.0005	.0001	.0002	.0009	.0006	.0014
%RSD	.0798	.9327	.5513	.1488	.2229	.3553

#1	.6290	.0116	.0377	.6357	.2885	.4010
#2	.6295	.0118	.0373	.6338	.2884	.4023
#3	.6285	.0118	.0376	.6345	.2896	.3995

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.2002	.2209	.0891	.5634	.1540	.2958
Stddev	.0001	.0003	.0001	.0024	.0001	.0008
%RSD	.0275	.1392	.1260	.4280	.0754	.2813

#1	.2001	.2209	.0892	.5643	.1540	.2964
#2	.2001	.2212	.0890	.5606	.1541	.2962
#3	.2002	.2205	.0890	.5651	.1539	.2949

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.2893	.7594	2.778	.0567	.1049	.0066
Stddev	.0008	.0008	.002	.0002	.0001	.0000
%RSD	.2823	.1073	.0775	.3057	.1305	.5876

#1	.2884	.7604	2.778	.0568	.1050	.0066
#2	.2900	.7591	2.776	.0567	.1050	.0066
#3	.2893	.7589	2.780	.0565	.1048	.0066

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0100	.0139	.0929	.2055	.0367	.1038
Stddev	.0001	.0001	.0001	.0002	.0002	.0001
%RSD	.9877	.3804	.1177	.0733	.4276	.1155

#1	.0099	.0139	.0929	.2057	.0365	.1037
#2	.0101	.0139	.0928	.2055	.0368	.1038
#3	.0099	.0138	.0930	.2054	.0367	.1039

Sample Name: CAL3 Acquired: 4/22/2016 14:32:27 Type: Cal
Method: BC042116(v5) Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0178	4.617	.7471	.0249
Stddev	.0000	.007	.0025	.0001
%RSD	.1252	.1616	.3319	.4877

#1	.0178	4.618	.7496	.0249
#2	.0178	4.609	.7447	.0248
#3	.0179	4.624	.7471	.0250

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	9283.1	47262.	10663.
Stddev	22.7	296.	62.
%RSD	.24453	.62588	.58511

#1	9257.9	47175.	10633.
#2	9301.9	47019.	10620.
#3	9289.6	47591.	10734.

Sample Name: CAL4 Acquired: 4/22/2016 14:36:00 Type: Cal
Method: BC042116(v5) Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3.121	.0597	.1894	3.076	1.405	1.980
Stddev	.006	.0001	.0008	.005	.004	.006
%RSD	.1883	.1878	.4024	.1595	.3057	.3214

#1	3.114	.0596	.1902	3.081	1.401	1.982
#2	3.124	.0598	.1887	3.072	1.409	1.973
#3	3.124	.0596	.1893	3.074	1.406	1.985

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.9600	1.072	.4279	2.836	.7402	1.489
Stddev	.0018	.001	.0013	.006	.0028	.003
%RSD	.1847	.1040	.3144	.2181	.3795	.2094

#1	.9603	1.072	.4287	2.843	.7412	1.486
#2	.9580	1.070	.4264	2.832	.7371	1.491
#3	.9615	1.072	.4287	2.833	.7424	1.491

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1.462	3.647	13.84	.2715	.5045	.0333
Stddev	.006	.012	.01	.0005	.0010	.0001
%RSD	.3801	.3218	.0469	.1942	.2046	.2418

#1	1.465	3.654	13.84	.2719	.5045	.0333
#2	1.455	3.633	13.85	.2709	.5035	.0333
#3	1.464	3.654	13.84	.2717	.5055	.0334

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0494	.0669	.4536	.9887	.1848	.5058
Stddev	.0004	.0003	.0010	.0041	.0002	.0006
%RSD	.8405	.4982	.2171	.4134	.1009	.1246

#1	.0494	.0672	.4543	.9900	.1846	.5055
#2	.0498	.0670	.4525	.9841	.1850	.5066
#3	.0489	.0665	.4540	.9919	.1847	.5055

Sample Name: CAL4 Acquired: 4/22/2016 14:36:00 Type: Cal
Method: BC042116(v5) Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0865	22.78	3.665	.1265
Stddev	.0001	.03	.009	.0010
%RSD	.1333	.1438	.2478	.7546

#1	.0866	22.81	3.664	.1276
#2	.0864	22.78	3.657	.1259
#3	.0864	22.74	3.675	.1260

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	8960.2	46202.	10608.
Stddev	34.9	267.	111.
%RSD	.38991	.57717	1.0480

#1	8932.3	45988.	10731.
#2	8999.4	46501.	10577.
#3	8948.8	46117.	10516.

Sample Name: CAL5 Acquired: 4/22/2016 14:39:26 Type: Cal
Method: BC042116(v5) Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6.281	.1211	.3847	5.999	2.758	3.941
Stddev	.001	.0005	.0018	.011	.003	.012
%RSD	.0145	.4279	.4672	.1890	.0985	.2981

#1	6.282	.1211	.3829	6.006	2.756	3.942
#2	6.281	.1217	.3848	6.005	2.761	3.929
#3	6.281	.1206	.3865	5.986	2.757	3.952

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1.881	2.107	.8428	5.692	1.455	3.018
Stddev	.004	.004	.0018	.024	.003	.002
%RSD	.2206	.2147	.2126	.4125	.2132	.0673

#1	1.883	2.111	.8429	5.666	1.454	3.019
#2	1.884	2.109	.8409	5.710	1.452	3.018
#3	1.877	2.102	.8445	5.701	1.458	3.015

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2.951	7.064	27.28	.5308	.9912	.0674
Stddev	.008	.070	.44	.0012	.0016	.0001
%RSD	.2688	.9962	1.627	.2330	.1635	.1899

#1	2.948	7.075	27.64	.5314	.9925	.0673
#2	2.946	6.988	27.40	.5317	.9918	.0675
#3	2.960	7.128	26.78	.5294	.9894	.0672

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0991	.1301	.9036	1.942	.3723	1.001
Stddev	.0002	.0003	.0015	.009	.0005	.002
%RSD	.2026	.1959	.1641	.4673	.1477	.2140

#1	.0989	.1303	.9024	1.945	.3718	1.002
#2	.0993	.1298	.9032	1.949	.3722	1.002
#3	.0991	.1301	.9052	1.931	.3729	.9985

Sample Name: CAL5 Acquired: 4/22/2016 14:39:26 Type: Cal
Method: BC042116(v5) Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.1713	44.61	7.170	.2580
Stddev	.0004	.82	.028	.0011
%RSD	.2536	1.837	.3924	.4231

#1	.1717	45.05	7.178	.2574
#2	.1715	45.12	7.139	.2592
#3	.1708	43.67	7.194	.2573

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	8648.4	45012.	10269.
Stddev	30.4	312.	73.
%RSD	.35094	.69414	.71004

#1	8634.8	44732.	10190.
#2	8627.1	45349.	10283.
#3	8683.1	44955.	10334.

Sample Name: ICV Acquired: 4/22/2016 14:43:28 Type: QC
Method: BC042116(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	125000.	2497.	1243.	10200.	1019.	125700.
Stddev	433.	4.	1.	15.	3.	432.
%RSD	.3460	.1759	.0951	.1429	.2525	.3438

#1	124500.	2496.	1243.	10210.	1016.	125300.
#2	125200.	2494.	1244.	10210.	1021.	125700.
#3	125300.	2502.	1242.	10180.	1020.	126100.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1266.	2519.	5089.	12530.	101400.	49810.
Stddev	1.	3.	17.	22.	303.	165.
%RSD	.0437	.1345	.3259	.1727	.2991	.3314

#1	1265.	2521.	5072.	12550.	101100.	49620.
#2	1266.	2520.	5091.	12520.	101400.	49850.
#3	1266.	2515.	5105.	12510.	101700.	49950.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	125300.	5147.	126200.	2542.	7579.	997.7
Stddev	575.	14.	292.	2.	8.	4.8
%RSD	.4589	.2742	.2312	.0668	.1105	.4827

#1	124700.	5133.	125900.	2543.	7575.	1003.
#2	125400.	5147.	126100.	2543.	7573.	996.9
#3	125800.	5161.	126500.	2540.	7589.	993.4

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: ICV Acquired: 4/22/2016 14:43:28 Type: QC
Method: BC042116(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2482.	2528.	2526.	2539.	960.1	2487.
Stddev	8.	4.	2.	4.	3.6	5.
%RSD	.3203	.1761	.0824	.1704	.3725	.1824

#1	2480.	2523.	2524.	2534.	963.6	2490.
#2	2475.	2528.	2528.	2542.	960.3	2489.
#3	2490.	2532.	2527.	2541.	956.5	2481.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	1002.	5100.	10180.	9572.
Stddev	3.	11.	22.	69.
%RSD	.2988	.2194	.2196	.7221

#1	1005.	5087.	10180.	9520.
#2	999.4	5108.	10150.	9650.
#3	1001.	5104.	10200.	9545.

Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	8941.2	46205.	10416.
Stddev	3.3	174.	77.
%RSD	.03653	.37640	.73747

#1	8941.1	46300.	10447.
#2	8938.0	46311.	10473.
#3	8944.5	46004.	10329.

Sample Name: ICB Acquired: 4/22/2016 14:46:54 Type: QC
Method: BC042116(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	44.86	.3231	.5947	.9837	.8102	-17.46
Stddev	114.2	2.060	.3320	.2290	.8458	21.16
%RSD	254.5	637.6	55.83	23.28	104.4	121.2
#1	-15.74	-1.502	.4136	1.087	.3197	-14.51
#2	-26.26	-.0858	.9778	1.143	.3241	-39.94
#3	176.6	2.557	.3925	.7213	1.787	2.078

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.1006	.0546	1.788	3.287	11.84	82.48
Stddev	.0554	.2211	.890	2.088	20.64	39.87
%RSD	55.06	405.0	49.77	63.54	174.2	48.34
#1	.1581	.3098	2.323	4.190	7.861	113.8
#2	.0963	-.0773	.7609	.8989	-6.511	37.58
#3	.0475	-.0687	2.281	4.772	34.18	96.11

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-7.893	1.496	136.2	-.1032	-.0268	2.451
Stddev	17.64	.929	108.7	.1309	1.143	1.081
%RSD	223.4	62.12	79.84	126.9	4258.	44.11
#1	.0385	1.692	98.24	.0457	-.4189	3.281
#2	-28.10	.4847	51.51	-.2001	-.9218	2.844
#3	4.383	2.313	258.8	-.1551	1.260	1.228

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: ICB Acquired: 4/22/2016 14:46:54 Type: QC
Method: BC042116(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.602	-1.306	.1767	.2477	3.563	2.886
Stddev	1.260	.351	.1991	.0468	1.239	.443
%RSD	48.43	26.89	112.7	18.91	34.79	15.35
#1	4.047	-1.376	.2944	.2877	4.792	2.711
#2	1.735	-.9251	-.0531	.2591	3.583	2.557
#3	2.023	-1.617	.2889	.1962	2.313	3.390
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.7211	3.796	4.547	24.88
Stddev	.2649	4.875	1.670	7.45
%RSD	36.73	128.4	36.73	29.93
#1	1.027	1.537	4.809	19.00
#2	.5679	.4604	2.761	22.38
#3	.5684	9.391	6.071	33.25
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	9493.2	48247.	10540.
Stddev	44.3	228.	116.
%RSD	.46713	.47239	1.1004
#1	9462.8	47990.	10575.
#2	9544.1	48326.	10634.
#3	9472.7	48425.	10410.

Sample Name: ICVL Acquired: 4/22/2016 14:50:46 Type: QC
Method: BC042116(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	160.0	14.74	8.924	189.6	1.903	4671.
Stddev	22.7	1.69	.190	.4	.264	20.
%RSD	14.19	11.43	2.132	.2019	13.85	.4352

#1	183.6	13.62	8.828	190.0	2.183	4651.
#2	158.0	13.93	9.144	189.6	1.868	4670.
#3	138.4	16.68	8.802	189.2	1.659	4692.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.826	47.54	10.07	22.93	145.4	4523.
Stddev	.132	.19	.61	.35	12.0	51.
%RSD	3.448	.3953	6.063	1.541	8.249	1.130

#1	3.896	47.69	9.596	22.89	158.9	4481.
#2	3.674	47.60	9.852	22.60	135.8	4509.
#3	3.909	47.33	10.76	23.30	141.7	4580.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4479.	15.30	4650.	39.33	10.83	19.88
Stddev	44.	.29	16.	.30	1.71	2.06
%RSD	.9918	1.914	.3416	.7514	15.77	10.35

#1	4429.	15.63	4650.	39.25	9.003	22.13
#2	4494.	15.06	4634.	39.08	12.39	18.10
#3	4514.	15.22	4666.	39.65	11.11	19.41

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: ICVL Acquired: 4/22/2016 14:50:46 Type: QC
Method: BC042116(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	19.76	18.04	46.46	34.46	48.68	18.61
Stddev	2.63	3.13	.30	.20	.43	.20
%RSD	13.29	17.33	.6390	.5751	.8863	1.060
#1	17.30	19.23	46.52	34.33	48.24	18.73
#2	19.45	20.40	46.72	34.69	49.10	18.72
#3	22.52	14.50	46.14	34.37	48.69	18.38

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	45.49	19.63	20.87	F 29.58
Stddev	.08	.38	.11	8.71
%RSD	.1751	1.932	.5125	29.43
#1	45.49	20.07	20.85	20.25
#2	45.40	19.44	20.98	31.01
#3	45.56	19.39	20.77	37.48

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				200.0
Range				-30.50%

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	9554.9	48242.	10540.
Stddev	26.2	386.	103.
%RSD	.27416	.79921	.97393
#1	9584.9	48686.	10590.
#2	9536.4	48040.	10608.
#3	9543.6	47999.	10422.

Sample Name: IC5A 4305572 Acquired: 4/22/2016 14:54:33 Type: QC
Method: BC042116(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	505500.	2.954	-1.161	-2.060	.0226	498600.
Stddev	1617.	1.843	.525	.371	.0357	5233.
%RSD	.3200	62.38	45.18	18.01	157.6	1.050

#1	503900.	2.397	-.9002	-2.356	.0497	493300.
#2	505500.	5.011	-1.765	-1.644	.0359	498700.
#3	507100.	1.454	-.8185	-2.180	-.0178	503800.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.8586	-3.442	-.5998	.1358	197900.	-9.704
Stddev	.3130	.111	.5215	.7021	1407.	7.645
%RSD	36.45	3.223	86.94	517.2	.7106	78.79

#1	-.4979	-3.561	-.1188	.8317	196300.	-4.935
#2	-1.057	-3.342	-.5266	.1481	198500.	-5.654
#3	-1.021	-3.423	-1.154	-.5724	199000.	-18.52

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	509300.	-1.487	19.60	-1.490	2.319	.9585
Stddev	5395.	.124	.82	.769	2.504	3.753
%RSD	1.059	8.329	4.204	51.60	108.0	391.6

#1	503300.	-1.344	19.33	-2.359	5.186	-1.737
#2	511100.	-1.562	18.94	-.8977	.5588	-.6325
#3	513600.	-1.555	20.52	-1.214	1.212	5.245

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: IC5A 4305572 Acquired: 4/22/2016 14:54:33 Type: QC
Method: BC042116(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-4.032	-5.899	-1.833	-1.888	-2.374	1.363
Stddev	1.354	.5948	.304	.147	.513	.553
%RSD	33.57	100.8	16.60	7.768	21.60	40.57
#1	-5.363	-.0243	-1.999	-1.971	-1.844	.8814
#2	-2.657	-.5353	-2.018	-1.719	-2.410	1.242
#3	-4.077	-1.210	-1.482	-1.974	-2.868	1.967

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.4901	-.8518	1.453	32.69
Stddev	.8592	.3308	.154	9.05
%RSD	175.3	38.83	10.63	27.68
#1	1.232	-.4842	1.301	32.80
#2	-.4513	-.9457	1.610	41.68
#3	.6898	-1.125	1.449	23.59

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	8589.0	44273.	10192.
Stddev	31.4	435.	131.
%RSD	.36568	.98152	1.2887
#1	8619.6	44727.	10225.
#2	8556.8	44233.	10303.
#3	8590.5	43860.	10047.

Sample Name: ICSAB 4305680 Acquired: 4/22/2016 14:58:35 Type: QC
Method: BC042116(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	514400.	97.46	103.8	101.8	101.4	505500.
Stddev	328.	4.42	.4	.3	.1	2586.
%RSD	.0637	4.531	.3834	.3428	.0591	.5115

#1	514800.	97.61	103.4	102.2	101.4	504400.
#2	514300.	101.8	103.7	101.6	101.5	508500.
#3	514200.	92.97	104.2	101.6	101.5	503700.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	97.60	96.20	101.3	108.0	202100.	10410.
Stddev	.11	.23	1.0	1.2	582.	14.
%RSD	.1115	.2348	1.028	1.147	.2879	.1389

#1	97.48	96.46	100.6	107.3	202100.	10410.
#2	97.65	96.03	100.7	107.3	202600.	10400.
#3	97.68	96.12	102.5	109.4	201500.	10430.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	519300.	103.7	10700.	97.47	101.9	99.90
Stddev	2147.	.3	21.	.75	1.3	3.42
%RSD	.4134	.3352	.1961	.7745	1.321	3.420

#1	519500.	103.7	10720.	98.23	100.8	102.4
#2	521400.	103.4	10690.	96.72	101.6	96.01
#3	517100.	104.1	10690.	97.44	103.4	101.3

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: ICSAB 4305680 Acquired: 4/22/2016 14:58:35 Type: QC
Method: BC042116(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	95.80	95.80	100.2	96.41	92.27	97.47
Stddev	.11	1.78	.8	.17	1.44	.64
%RSD	.1198	1.856	.7923	.1734	1.566	.6594
#1	95.68	94.82	100.9	96.23	93.24	98.16
#2	95.80	97.85	100.5	96.54	90.61	97.37
#3	95.91	94.73	99.35	96.47	92.95	96.89

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	100.2	102.4	106.8	114.9
Stddev	1.0	.5	.5	6.7
%RSD	1.011	.4920	.4625	5.840
#1	100.2	103.0	106.3	119.8
#2	99.17	102.1	107.2	117.8
#3	101.2	102.1	107.1	107.3

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	8593.3	44053.	10118.
Stddev	5.5	147.	108.
%RSD	.06412	.33389	1.0679
#1	8599.3	44109.	10241.
#2	8588.4	43886.	10040.
#3	8592.4	44163.	10073.

Sample Name: INT-10A 4154117 Acquired: 4/22/2016 15:02:29 Type: QC

Method: BC042116(v5) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	29.50	2.787	-.2508	2.558	2.759	-25.63
Stddev	25.08	1.344	.2764	.255	.073	28.14
%RSD	85.02	48.22	110.2	9.966	2.641	109.8

#1	57.51	1.418	-.4215	2.690	2.841	6.297
#2	21.86	4.104	.0681	2.720	2.701	-36.33
#3	9.128	2.838	-.3991	2.264	2.735	-46.85

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.3210	10560.	.9928	5.244	F -1151.	-15.72
Stddev	.0624	9.	.2900	.393	39.	38.70
%RSD	19.45	.0855	29.21	7.493	3.376	246.3

#1	-.2711	10570.	.8499	5.204	-1106.	-27.53
#2	-.3910	10570.	.8019	5.656	-1170.	27.52
#3	-.3010	10560.	1.326	4.873	-1177.	-47.13

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					200.0	
Low Limit					-200.0	

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-22.38	.0687	117.7	-3.518	-3.591	-17.02
Stddev	20.10	.0483	7.5	.503	1.080	.99
%RSD	89.83	70.30	6.399	14.30	30.08	5.843

#1	.5931	.1137	122.4	-2.992	-2.362	-16.01
#2	-30.97	.0749	121.8	-3.567	-4.020	-18.00
#3	-36.75	.0176	109.0	-3.994	-4.391	-17.05

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: INT-10A 4154117 Acquired: 4/22/2016 15:02:29 Type: QC
Method: BC042116(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.140	-12.04	5080.	2.002	-1.1973	-1.215
Stddev	.370	.57	50.	.137	.6709	.286
%RSD	32.39	4.697	.9911	6.853	340.0	23.59
#1	-1.448	-11.96	5022.	2.132	.4975	-1.545
#2	-1.242	-11.52	5116.	1.858	-.2482	-1.068
#3	-.7308	-12.64	5101.	2.017	-.8413	-1.032

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	10110.	10230.	.5495	10020.
Stddev	22.	234.	.4068	96.
%RSD	.2145	2.284	74.03	.9548
#1	10090.	10110.	.2089	9995.
#2	10140.	10080.	.4396	9933.
#3	10110.	10500.	.9999	10120.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	9426.7	47792.	10383.
Stddev	27.2	792.	321.
%RSD	.28835	1.6575	3.0911
#1	9454.3	48492.	10715.
#2	9400.0	46932.	10075.
#3	9425.8	47952.	10358.

Sample Name: INT-10B 4154119 Acquired: 4/22/2016 15:06:25 Type: QC

Method: BC042116(v5) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-48.77	-16.64	1.250	-.1978	1.926	-80.36
Stddev	8.29	3.17	.402	.2371	.093	4.78
%RSD	17.00	19.08	32.16	119.9	4.852	5.946

#1	-56.98	-19.03	1.577	-.4594	1.855	-78.76
#2	-48.93	-13.04	1.372	.0028	1.890	-85.73
#3	-40.40	-17.85	.8010	-.1366	2.032	-76.58

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.4362	-2.085	10370.	9641.	-23.86	14.97
Stddev	.1025	.250	30.	10.	11.45	3.96
%RSD	23.51	12.01	.2847	.1053	47.99	26.47

#1	-.3659	-1.832	10390.	9650.	-23.38	12.10
#2	-.3888	-2.089	10370.	9644.	-35.55	19.49
#3	-.5538	-2.333	10330.	9630.	-12.66	13.32

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-52.65	10310.	26.84	10620.	-17.01	-14.11
Stddev	6.13	48.	.20	22.	.95	1.12
%RSD	11.64	.4644	.7473	.2090	5.604	7.904

#1	-48.44	10300.	26.78	10640.	-18.11	-14.62
#2	-59.68	10260.	27.07	10630.	-16.43	-12.84
#3	-49.84	10360.	26.68	10600.	-16.50	-14.89

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: INT-10B 4154119 Acquired: 4/22/2016 15:06:25 Type: QC
Method: BC042116(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-5.478	-7.135	5.162	-3.037	13.76	4910.
Stddev	3.283	3.198	.434	.023	.73	12.
%RSD	59.94	44.82	8.403	.7557	5.299	.2511
#1	-4.988	-3.966	5.647	-3.040	13.74	4924.
#2	-2.467	-10.36	4.814	-3.012	14.50	4908.
#3	-8.978	-7.077	5.024	-3.058	13.04	4899.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	7.566	.7710	10240.	.7700
Stddev	.792	.6500	6.	13.62
%RSD	10.47	84.30	.0609	1769.
#1	8.420	1.478	10240.	-14.52
#2	7.423	.6361	10240.	11.63
#3	6.854	.1991	10230.	5.194

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	9401.7	48217.	10431.
Stddev	23.6	307.	30.
%RSD	.25092	.63598	.29108
#1	9384.4	47869.	10414.
#2	9428.6	48334.	10466.
#3	9392.2	48448.	10413.

Sample Name: pds 460-112322-b-1-b Acquired: 4/22/2016 15:10:18 Type: Unk
Method: BC042116(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1963.	1933.	49.47	2032.	52.07	22960.
Stddev	16.	3.	.42	2.	.26	83.
%RSD	.8006	.1385	.8430	.0877	.5031	.3621
#1	1972.	1936.	49.93	2032.	52.35	22990.
#2	1973.	1932.	49.11	2034.	52.02	22870.
#3	1945.	1932.	49.37	2030.	51.84	23030.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	51.33	505.4	214.4	250.8	1917.	18440.
Stddev	.10	.6	2.5	1.0	16.	55.
%RSD	.1871	.1260	1.173	.3968	.8397	.2968
#1	51.27	504.7	217.3	252.0	1903.	18420.
#2	51.29	505.9	212.6	250.2	1913.	18390.
#3	51.44	505.7	213.3	250.3	1935.	18500.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	19360.	565.4	49600.	523.5	521.1	479.4
Stddev	72.	2.7	64.	.8	3.0	3.1
%RSD	.3721	.4837	.1298	.1467	.5732	.6441
#1	19350.	566.3	49600.	522.7	520.5	480.9
#2	19290.	562.3	49530.	524.2	524.4	481.5
#3	19430.	567.5	49660.	523.8	518.5	475.9

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: pds 460-112322-b-1-b Acquired: 4/22/2016 15:10:18 Type: Unk
Method: BC042116(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1953.	2085.	515.1	3047.	466.6	489.3
Stddev	9.	6.	2.3	6.	1.3	1.9
%RSD	.4611	.2689	.4432	.1921	.2825	.3957
#1	1959.	2083.	512.5	3043.	467.1	489.5
#2	1958.	2091.	515.7	3044.	467.5	491.1
#3	1943.	2081.	517.0	3053.	465.1	487.2

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	503.6	524.7	523.0	210.8
Stddev	1.4	1.3	2.1	13.5
%RSD	.2680	.2395	.4090	6.388
#1	503.0	525.5	523.4	199.9
#2	505.1	523.2	520.7	206.6
#3	502.6	525.3	524.9	225.8

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	9357.2	47549.	10369.
Stddev	18.3	363.	133.
%RSD	.19540	.76290	1.2816
#1	9376.5	47394.	10264.
#2	9355.2	47964.	10519.
#3	9340.1	47290.	10325.

Sample Name: 460-112322-b-1-d.ms Acquired: 4/22/2016 15:13:48 Type: Unk
Method: BC042116(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	79.98	95.67	9.719	212.9	20.10	3298.
Stddev	3.65	3.31	.164	.5	.01	45.
%RSD	4.559	3.458	1.684	.2259	.0579	1.359
#1	83.40	96.39	9.812	212.7	20.10	3250.
#2	76.14	98.55	9.530	213.4	20.08	3339.
#3	80.39	92.06	9.814	212.5	20.11	3304.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	21.02	21.15	106.3	27.35	1002.	429.4
Stddev	.10	.23	8.0	7.04	8.	16.5
%RSD	.4585	1.090	7.542	25.73	.7876	3.850
#1	20.93	21.24	101.3	23.40	996.9	432.1
#2	21.00	20.89	115.5	35.47	997.1	411.7
#3	21.12	21.33	102.0	23.17	1011.	444.4

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	442.7	67.48	29140.	26.59	110.4	18.05
Stddev	34.8	8.29	30.	.51	.6	.62
%RSD	7.868	12.29	.1038	1.933	.5182	3.420
#1	420.2	62.45	29110.	26.00	110.8	17.35
#2	482.8	77.05	29150.	26.80	109.8	18.52
#3	425.1	62.93	29170.	26.96	110.7	18.29

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-112322-b-1-d.ms Acquired: 4/22/2016 15:13:48 Type: Unk
Method: BC042116(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	19.69	19.68	10.34	2504.	20.18	19.91
Stddev	1.66	1.89	1.81	4.	.35	.29
%RSD	8.420	9.593	17.45	.1775	1.744	1.453
#1	18.40	19.19	9.955	2506.	19.89	19.59
#2	19.11	21.77	12.31	2507.	20.57	20.02
#3	21.56	18.09	8.767	2499.	20.09	20.13

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	19.75	39.72	26.33	151.9
Stddev	.54	.23	8.24	9.2
%RSD	2.714	.5828	31.28	6.070
#1	19.99	39.46	21.05	159.4
#2	20.12	39.90	35.82	141.6
#3	19.14	39.81	22.12	154.8

Check ? Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	9429.7	47603.	10255.
Stddev	30.5	278.	148.
%RSD	.32360	.58358	1.4429
#1	9402.5	47912.	10319.
#2	9423.9	47375.	10086.
#3	9462.7	47521.	10360.

Sample Name: 460-112322-b-1-c du Acquired: 4/22/2016 15:17:35 Type: Unk
Method: BC042116(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	65.77	.6889	.0547	12.87	-.0861	2991.
Stddev	139.3	.6477	.3962	.15	.0919	9.
%RSD	211.9	94.02	724.3	1.153	106.7	.3068
#1	-6.617	.8351	-.1390	12.73	-.1867	2988.
#2	-22.49	1.251	.5105	12.85	-.0647	3001.
#3	226.4	-.0194	-.2074	13.03	-.0068	2983.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.2833	.4480	.6454	3.231	1022.	87.93
Stddev	.1381	.0868	.3343	.178	7.	7.01
%RSD	48.75	19.37	51.79	5.504	.6415	7.976
#1	.3704	.5355	.8832	3.199	1019.	91.88
#2	.3554	.3619	.7899	3.072	1018.	79.84
#3	.1240	.4465	.2632	3.423	1030.	92.08

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	51.04	42.45	29850.	5.829	10.44	-.8602
Stddev	2.34	.08	21.	.480	.75	1.604
%RSD	4.578	.1785	.0712	8.241	7.176	186.5
#1	48.60	42.37	29820.	5.871	11.20	-2.606
#2	53.26	42.47	29860.	5.329	10.42	-.5230
#3	51.27	42.52	29860.	6.287	9.699	.5483

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-112322-b-1-c du Acquired: 4/22/2016 15:17:35 Type: Unk
Method: BC042116(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.1152	-1.411	-.2047	2572.	2.292	.3876
Stddev	1.404	.466	.2661	3.	.459	.3976
%RSD	1220.	32.99	130.0	.1241	20.04	102.6
#1	.3253	-1.358	.0825	2575.	2.282	.0774
#2	1.016	-1.901	-.2537	2570.	1.837	.2497
#3	-1.687	-.9749	-.4428	2570.	2.755	.8358

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.5067	20.28	.8835	161.6
Stddev	.7671	.03	.1455	19.2
%RSD	151.4	.1600	16.47	11.89
#1	-.3024	20.24	.8962	183.8
#2	1.224	20.28	.7321	149.8
#3	.5990	20.31	1.022	151.2

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	9462.6	47960.	10392.
Stddev	19.6	228.	51.
%RSD	.20711	.47532	.48687
#1	9440.9	47960.	10404.
#2	9468.0	47732.	10337.
#3	9478.9	48188.	10436.

Sample Name: 460-112322-b-1-b@50 Acquired: 4/22/2016 15:21:24 Type: Unk
Method: BC042116(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-15.70	-.0596	.2717	12.38	-.0821	2900.
Stddev	8.23	1.566	.0660	.18	.0649	23.
%RSD	52.44	2626.	24.28	1.440	79.04	.8057
#1	-6.199	-.1038	.3295	12.58	-.1043	2874.
#2	-20.69	-1.603	.2858	12.33	-.1330	2907.
#3	-20.22	1.528	.1998	12.24	-.0090	2919.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.3928	.4849	.9426	3.246	983.9	33.51
Stddev	.0609	.1156	.5225	.568	10.3	16.46
%RSD	15.51	23.85	55.43	17.51	1.042	49.11
#1	.3304	.6026	.3482	2.592	977.3	30.44
#2	.4522	.4805	1.329	3.621	978.7	18.81
#3	.3960	.3715	1.150	3.526	995.7	51.29

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	46.95	40.87	28790.	6.169	9.988	-2.977
Stddev	3.45	.23	9.	.166	.791	2.538
%RSD	7.345	.5648	.0301	2.697	7.919	85.23
#1	44.64	40.61	28780.	5.983	10.39	-1.370
#2	50.91	40.95	28800.	6.303	10.50	-5.903
#3	45.30	41.05	28790.	6.222	9.077	-1.659

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-112322-b-1-b@50 Acquired: 4/22/2016 15:21:24 Type: Unk
Method: BC042116(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.4020	-1.890	-.3375	2498.	1.790	.1571
Stddev	.7232	1.521	.3632	11.	.439	.1765
%RSD	179.9	80.44	107.6	.4536	24.51	112.4
#1	.3915	-3.060	-.5673	2487.	1.991	.0046
#2	-1.024	-.1714	.0812	2498.	2.093	.1162
#3	-.5731	-2.440	-.5265	2509.	1.287	.3505

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.3461	19.45	.7820	169.5
Stddev	.9165	.16	.1923	2.7
%RSD	264.8	.8061	24.59	1.614
#1	.2464	19.28	.8876	166.5
#2	-.5165	19.51	.8983	170.2
#3	1.308	19.57	.5601	171.8

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	9370.1	47535.	10410.
Stddev	62.7	544.	68.
%RSD	.66959	1.1442	.64890
#1	9427.4	48163.	10374.
#2	9379.8	47237.	10488.
#3	9303.0	47206.	10367.

Sample Name: sd 460-112322-b-1-b Acquired: 4/22/2016 15:25:13 Type: Unk
Method: BC042116(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-51.91	1.557	.2549	2.513	-.0374	533.5
Stddev	9.49	1.741	.4053	.209	.0447	10.1
%RSD	18.28	111.8	159.0	8.328	119.4	1.887
#1	-61.25	2.709	.7129	2.603	-.0054	522.0
#2	-42.28	2.407	-.0574	2.274	-.0884	538.3
#3	-52.21	-.4461	.1094	2.663	-.0184	540.4

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.0096	.0714	.2572	.1067	186.4	22.72
Stddev	.0962	.0963	.1196	.1861	2.3	5.36
%RSD	1005.	135.0	46.50	174.5	1.259	23.58
#1	.0798	.0228	.3467	-.0730	189.0	27.40
#2	-.1114	.1823	.1214	.0942	185.9	16.88
#3	.0028	.0089	.3036	.2987	184.4	23.89

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-21.31	8.215	5807.	.7377	2.553	2.230
Stddev	5.81	.126	17.	.5636	1.000	1.721
%RSD	27.27	1.533	.2990	76.40	39.16	77.21
#1	-15.20	8.070	5787.	.2392	1.404	4.217
#2	-26.77	8.296	5817.	.6247	3.222	1.209
#3	-21.94	8.279	5818.	1.349	3.034	1.263

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: sd 460-112322-b-1-b Acquired: 4/22/2016 15:25:13 Type: Unk
Method: BC042116(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.0331	-2.087	-.2370	497.7	.3938	.1603
Stddev	.5320	1.614	.4235	.5	.5195	.2006
%RSD	1605.	77.33	178.7	.1033	131.9	125.2
#1	-.5620	-.9136	-.1442	497.4	.0196	.0388
#2	.4625	-1.420	.1324	498.3	.9869	.0501
#3	.1989	-3.928	-.6992	497.4	.1749	.3918

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.6929	3.902	.0200	45.22
Stddev	.2297	.072	.2892	13.74
%RSD	33.15	1.858	1449.	30.37
#1	.9539	3.907	.0623	33.20
#2	.5215	3.827	-.2881	42.27
#3	.6033	3.971	.2857	60.19

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	9457.2	47931.	10295.
Stddev	26.8	293.	53.
%RSD	.28377	.61030	.51612
#1	9447.6	48246.	10345.
#2	9436.5	47668.	10301.
#3	9487.5	47880.	10240.

Sample Name: lcssrm 460-364053/2- Acquired: 4/22/2016 15:29:03 Type: QC
Method: BC042116(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	39290.	778.1	163.2	1164.	544.3	30790.
Stddev	165.	2.1	.9	1.	2.2	126.
%RSD	.4199	.2681	.5795	.1012	.4040	.4080

#1	39240.	779.4	162.1	1166.	541.9	30680.
#2	39170.	779.1	163.6	1164.	546.2	30920.
#3	39480.	775.7	163.9	1163.	544.8	30760.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	485.3	869.2	803.0	933.7	81780.	12240.
Stddev	1.0	2.5	3.4	2.9	279.	15.
%RSD	.2005	.2870	.4197	.3101	.3409	.1195

#1	484.9	870.2	801.1	936.5	81610.	12230.
#2	486.4	870.9	806.9	933.9	82100.	12240.
#3	484.6	866.3	801.1	930.7	81620.	12260.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	13470.	1805.	4554.	753.6	814.4	436.2
Stddev	73.	4.	15.	2.0	3.4	1.3
%RSD	.5435	.2422	.3248	.2660	.4202	.2973

#1	13400.	1803.	4538.	752.4	811.7	437.4
#2	13550.	1810.	4558.	755.9	813.2	436.3
#3	13460.	1803.	4567.	752.5	818.3	434.8

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: lcssrm 460-364053/2- Acquired: 4/22/2016 15:29:03 Type: QC
Method: BC042116(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	923.2	826.1	620.0	1099.	623.9	623.1
Stddev	1.3	6.9	1.2	3.	2.0	1.1
%RSD	.1392	.8302	.1937	.2899	.3255	.1723
#1	921.7	822.5	620.2	1098.	621.6	622.3
#2	924.0	821.7	621.1	1103.	624.7	624.3
#3	923.9	834.0	618.7	1097.	625.4	622.7

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	801.2	563.8	1730.	2416.
Stddev	3.2	.3	5.	18.
%RSD	.3951	.0532	.3126	.7378
#1	801.0	563.7	1725.	2399.
#2	804.5	563.6	1736.	2434.
#3	798.2	564.2	1729.	2415.

Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	9390.9	47741.	10371.
Stddev	55.3	321.	51.
%RSD	.58853	.67205	.49056
#1	9359.3	47630.	10358.
#2	9358.8	47491.	10427.
#3	9454.7	48103.	10328.

Sample Name: CCV Acquired: 4/22/2016 15:32:35 Type: QC
Method: BC042116(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	125200.	2487.	1244.	10190.	1021.	127500.
Stddev	697.	6.	7.	28.	6.	712.
%RSD	.5567	.2246	.5319	.2711	.6353	.5585

#1	124500.	2482.	1237.	10210.	1014.	126800.
#2	125300.	2486.	1248.	10160.	1022.	127600.
#3	125900.	2493.	1249.	10210.	1026.	128200.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1269.	2524.	5137.	12460.	102300.	49860.
Stddev	2.	4.	28.	59.	610.	237.
%RSD	.1498	.1577	.5493	.4742	.5961	.4754

#1	1270.	2528.	5106.	12390.	101700.	49620.
#2	1267.	2520.	5142.	12500.	102300.	49870.
#3	1270.	2526.	5162.	12480.	102900.	50090.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	126000.	5191.	127400.	2549.	7608.	988.5
Stddev	844.	31.	353.	5.	17.	2.5
%RSD	.6697	.5947	.2773	.1900	.2217	.2568

#1	125100.	5157.	127100.	2551.	7601.	986.2
#2	125900.	5199.	127400.	2543.	7596.	991.3
#3	126800.	5217.	127800.	2552.	7628.	988.2

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCV Acquired: 4/22/2016 15:32:35 Type: QC
Method: BC042116(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2455.	2529.	2542.	2571.	948.5	2477.
Stddev	11.	5.	14.	4.	1.8	5.
%RSD	.4418	.1936	.5651	.1618	.1937	.1974
#1	2443.	2527.	2525.	2567.	946.5	2482.
#2	2464.	2535.	2547.	2573.	949.0	2472.
#3	2457.	2526.	2553.	2575.	950.1	2478.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	1006.	5069.	10400.	9402.
Stddev	2.	15.	52.	87.
%RSD	.1506	.2948	.5044	.9279
#1	1005.	5052.	10340.	9410.
#2	1007.	5076.	10420.	9485.
#3	1007.	5079.	10440.	9311.

Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	8883.6	45509.	10098.
Stddev	31.5	369.	150.
%RSD	.35415	.81096	1.4891
#1	8919.2	45838.	10195.
#2	8859.7	45577.	10175.
#3	8871.9	45110.	9924.9

Sample Name: CCB Acquired: 4/22/2016 15:36:01 Type: QC
Method: BC042116(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-49.14	2.115	.0773	.4417	-.0642	-51.06
Stddev	2.61	.657	.4221	.3037	.1480	9.08
%RSD	5.310	31.05	545.8	68.77	230.6	17.79

#1	-47.70	1.944	-.3781	.7772	.0817	-47.30
#2	-52.15	1.561	.1547	.3624	-.0601	-44.47
#3	-47.57	2.841	.4554	.1854	-.2141	-61.42

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.0155	.1614	.7383	.0209	-7.455	25.14
Stddev	.0285	.1981	.2853	.4326	10.43	18.86
%RSD	184.2	122.8	38.64	2068.	139.9	75.01

#1	.0482	.3491	.4098	.5159	3.529	37.59
#2	-.0037	-.0457	.9243	-.1682	-8.675	34.40
#3	.0019	.1807	.8809	-.2849	-17.22	3.445

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-35.33	.2827	26.57	-4.569	-1.087	1.593
Stddev	.69	.1293	16.61	.3549	1.705	1.297
%RSD	1.939	45.73	62.51	77.68	156.9	81.45

#1	-34.99	.4072	45.74	-.1881	-.6257	1.485
#2	-34.87	.2916	16.52	-.8592	.3400	.3529
#3	-36.12	.1492	17.45	-.3234	-2.975	2.941

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: CCB Acquired: 4/22/2016 15:36:01 Type: QC
Method: BC042116(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.176	-.4125	-.0695	-.0029	2.358	1.995
Stddev	1.111	1.306	.2974	.1269	.741	.078
%RSD	94.48	316.5	427.7	4382.	31.45	3.903
#1	2.115	.9260	-.3819	-.0406	3.197	1.916
#2	-.0507	-.4807	.2103	-.1067	2.085	1.995
#3	1.464	-1.683	-.0371	.1386	1.791	2.072

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	-.1614	.2085	1.390	23.67
Stddev	.4229	.2879	.152	5.63
%RSD	262.1	138.1	10.93	23.76
#1	.1051	.4675	1.498	17.71
#2	-.6490	.2596	1.456	28.88
#3	.0599	-.1015	1.216	24.43

Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	9424.6	47661.	10268.
Stddev	60.7	246.	69.
%RSD	.64418	.51662	.67305
#1	9491.5	47941.	10276.
#2	9409.2	47477.	10334.
#3	9373.0	47565.	10196.

Sample Name: CCVL Acquired: 4/22/2016 15:39:52 Type: QC
Method: BC042116(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	149.1	13.57	8.605	190.0	1.860	4683.
Stddev	8.5	.46	.309	.1	.068	8.
%RSD	5.683	3.367	3.586	.0615	3.673	.1669

#1	143.2	14.09	8.453	189.9	1.931	4677.
#2	145.2	13.38	8.401	189.9	1.795	4692.
#3	158.8	13.24	8.960	190.1	1.853	4679.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.756	47.75	10.10	21.98	138.3	4560.
Stddev	.047	.15	.37	.03	11.4	23.
%RSD	1.258	.3188	3.655	.1371	8.262	.5130

#1	3.796	47.63	9.678	21.96	151.5	4537.
#2	3.767	47.71	10.23	22.01	130.9	4559.
#3	3.704	47.92	10.38	21.96	132.6	4584.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4467.	15.20	4674.	38.37	9.482	20.05
Stddev	12.	.05	13.	.56	.583	1.36
%RSD	.2624	.3270	.2742	1.447	6.145	6.779

#1	4454.	15.14	4675.	38.36	9.809	21.51
#2	4469.	15.23	4687.	38.93	8.809	19.82
#3	4477.	15.23	4661.	37.82	9.828	18.82

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCVL Acquired: 4/22/2016 15:39:52 Type: QC
Method: BC042116(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	18.33	20.08	46.78	34.67	48.22	17.98
Stddev	1.01	2.03	.56	.27	.35	.31
%RSD	5.535	10.11	1.198	.7844	.7322	1.751

#1	17.60	20.75	47.05	34.91	47.82	17.70
#2	17.89	21.68	46.13	34.72	48.48	18.32
#3	19.49	17.80	47.15	34.38	48.36	17.92

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	45.11	19.02	20.77	F 18.61
Stddev	.14	.12	.10	3.59
%RSD	.3055	.6241	.4797	19.30

#1	45.24	18.89	20.68	16.28
#2	45.12	19.10	20.88	16.80
#3	44.97	19.08	20.76	22.75

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				200.0
Range				-30.50%

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	9519.3	47850.	10308.
Stddev	51.5	139.	142.
%RSD	.54079	.29090	1.3747

#1	9466.0	47851.	10283.
#2	9523.2	47711.	10179.
#3	9568.7	47989.	10460.

Sample Name: mb 460-364053/1-a@2 Acquired: 4/22/2016 15:43:40 Type: QC
Method: BC042116(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-47.90	1.536	.0578	.3600	.0388	-53.05
Stddev	14.45	.890	.4528	.3415	.0381	5.19
%RSD	30.17	57.98	782.7	94.87	98.21	9.787

#1	-59.91	2.536	-.3368	.7509	-.0043	-47.05
#2	-51.93	.8304	-.0417	.1195	.0525	-56.08
#3	-31.86	1.241	.5521	.2096	.0680	-56.01

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.0183	.1072	.3989	-.9731	-17.86	2.431
Stddev	.0906	.1211	.4131	.2527	2.16	49.03
%RSD	494.6	112.9	103.6	25.96	12.10	2017.

#1	-.0761	.2439	.0063	-1.201	-16.01	-21.64
#2	.1045	.0132	.3605	-1.017	-20.24	-29.91
#3	.0266	.0646	.8298	-.7012	-17.34	58.85

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-40.75	.0629	2.651	-.4877	.5449	.2802
Stddev	2.82	.0223	3.518	.5051	.3235	.6020
%RSD	6.909	35.50	132.7	103.6	59.36	214.8

#1	-43.92	.0466	2.201	-.7424	.7693	.8977
#2	-38.54	.0883	-.6198	-.8148	.1741	.2480
#3	-39.79	.0537	6.373	.0941	.6913	-.3050

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: mb 460-364053/1-a@2 Acquired: 4/22/2016 15:43:40 Type: QC
Method: BC042116(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.135	-.1496	-.5470	.1383	.3692	-.0087
Stddev	1.979	.1335	.1600	.2279	.4503	.2710
%RSD	174.4	89.21	29.25	164.9	122.0	3121.
#1	2.464	-.2680	-.7314	.3928	.8130	.0910
#2	-1.139	-.0049	-.4466	.0689	-.0874	-.3154
#3	2.080	-.1760	-.4629	-.0469	.3819	.1984

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.1746	-.0306	-.3799	17.88
Stddev	.0789	.0532	.1863	6.50
%RSD	45.21	174.2	49.05	36.37
#1	.2398	.0140	-.4931	24.90
#2	.1971	-.0895	-.4816	12.05
#3	.0868	-.0161	-.1648	16.70

Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	9491.6	48400.	10491.
Stddev	44.1	221.	44.
%RSD	.46465	.45594	.41922
#1	9440.6	48151.	10475.
#2	9517.7	48572.	10458.
#3	9516.4	48477.	10541.

Sample Name: pds 460-112480-a-1-a Acquired: 4/22/2016 15:47:32 Type: Unk
Method: BC042116(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	74630.	1956.	47.50	2219.	57.05	23800.
Stddev	390.	3.	1.33	2.	.19	17.
%RSD	.5225	.1704	2.791	.0780	.3265	.0701

#1	74180.	1960.	48.53	2220.	56.87	23810.
#2	74850.	1955.	46.00	2217.	57.24	23780.
#3	74870.	1954.	47.96	2220.	57.04	23810.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	48.39	544.3	346.9	302.9	136200.	22620.
Stddev	.25	.3	1.6	2.0	178.	133.
%RSD	.5148	.0566	.4494	.6688	.1309	.5872

#1	48.57	544.5	347.6	304.6	136100.	22470.
#2	48.11	544.0	345.1	300.6	136400.	22670.
#3	48.50	544.5	348.0	303.4	136000.	22720.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	31630.	2151.	20160.	576.1	549.8	482.2
Stddev	19.	2.	92.	.8	2.3	3.7
%RSD	.0590	.0950	.4567	.1391	.4123	.7752

#1	31610.	2149.	20060.	576.4	552.4	485.9
#2	31620.	2153.	20230.	576.8	548.0	482.4
#3	31650.	2150.	20210.	575.3	549.1	478.4

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: pds 460-112480-a-1-a Acquired: 4/22/2016 15:47:32 Type: Unk
Method: BC042116(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1897.	2061.	710.7	675.2	462.2	484.0
Stddev	7.	8.	.7	2.3	.8	1.3
%RSD	.3885	.3866	.0976	.3446	.1762	.2697
#1	1906.	2052.	710.3	675.2	461.5	482.5
#2	1894.	2065.	711.5	672.9	462.0	484.2
#3	1892.	2066.	710.3	677.5	463.1	485.1

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	513.2	527.7	3947.	1941.
Stddev	2.0	.5	6.	31.
%RSD	.3904	.0985	.1424	1.606
#1	511.2	527.7	3945.	1976.
#2	513.2	528.3	3953.	1929.
#3	515.2	527.2	3943.	1917.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	9217.4	46879.	10286.
Stddev	28.6	304.	121.
%RSD	.31020	.64761	1.1790
#1	9184.4	46536.	10425.
#2	9234.3	46992.	10230.
#3	9233.5	47111.	10203.

Sample Name: 460-112480-a-1-c.ms Acquired: 4/22/2016 15:51:02 Type: Unk
Method: BC042116(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	79280.	990.0	23.34	1222.	32.28	13820.
Stddev	30.	4.5	.30	1.	.15	60.
%RSD	.0375	.4520	1.305	.0589	.4577	.4338
#1	79310.	992.4	23.47	1222.	32.37	13750.
#2	79260.	992.6	23.55	1223.	32.36	13850.
#3	79270.	984.8	22.99	1221.	32.11	13860.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	23.75	292.1	240.0	179.4	136500.	14170.
Stddev	.09	.3	.8	.4	368.	42.
%RSD	.3642	.1078	.3357	.2470	.2696	.2986
#1	23.83	292.3	239.3	178.9	136000.	14160.
#2	23.66	292.2	239.8	179.8	136700.	14140.
#3	23.77	291.7	240.9	179.5	136700.	14220.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	22710.	1821.	10260.	330.9	304.3	136.2
Stddev	77.	6.	11.	1.4	.5	.3
%RSD	.3378	.3060	.1044	.4258	.1647	.2268
#1	22620.	1815.	10250.	329.3	304.2	136.5
#2	22770.	1824.	10270.	331.9	303.8	136.1
#3	22730.	1825.	10260.	331.5	304.8	135.9

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-112480-a-1-c.ms Acquired: 4/22/2016 15:51:02 Type: Unk
Method: BC042116(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	943.1	1045.	471.9	432.9	225.8	240.9
Stddev	.9	7.	.4	1.0	1.7	.2
%RSD	.0929	.6751	.0745	.2207	.7338	.0643
#1	943.9	1041.	471.6	431.8	224.6	240.9
#2	943.2	1053.	471.8	433.6	227.7	241.1
#3	942.1	1041.	472.3	433.1	225.1	240.8

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	254.6	282.9	3634.	2515.
Stddev	1.1	.2	12.	43.
%RSD	.4468	.0645	.3294	1.725
#1	253.3	283.0	3621.	2472.
#2	255.2	283.0	3636.	2559.
#3	255.3	282.7	3645.	2515.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	9269.2	47054.	10210.
Stddev	31.2	179.	146.
%RSD	.33713	.38098	1.4285
#1	9233.8	46880.	10049.
#2	9292.8	47045.	10334.
#3	9281.1	47238.	10245.

Sample Name: 460-112480-a-1-b du Acquired: 4/22/2016 15:54:36 Type: Unk
Method: BC042116(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	69560.	30.71	-1.998	190.0	5.264	3722.
Stddev	673.	1.01	.571	2.0	.174	38.
%RSD	.9681	3.272	28.55	1.077	3.310	1.010
#1	70250.	30.61	-2.058	192.3	5.306	3765.
#2	69530.	29.77	-1.400	189.3	5.413	3693.
#3	68900.	31.77	-2.536	188.3	5.072	3709.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.914	42.61	131.5	54.97	131600.	4008.
Stddev	.110	.37	1.8	.57	1562.	34.
%RSD	5.722	.8711	1.359	1.037	1.187	.8578
#1	-2.039	42.94	133.6	55.62	133400.	4046.
#2	-1.836	42.69	130.5	54.56	130900.	3997.
#3	-1.866	42.21	130.4	54.73	130600.	3980.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	11910.	1845.	123.8	66.34	44.02	1.112
Stddev	107.	21.	4.8	.58	.96	1.357
%RSD	.8955	1.155	3.884	.8700	2.189	122.0
#1	12040.	1870.	129.1	65.71	42.91	.3377
#2	11850.	1834.	119.7	66.85	44.48	2.679
#3	11850.	1831.	122.5	66.44	44.66	.3202

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-112480-a-1-b du Acquired: 4/22/2016 15:54:36 Type: Unk
Method: BC042116(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.012	1.086	203.0	164.5	2.446	3.110
Stddev	2.998	1.213	3.2	.8	.571	.228
%RSD	296.3	111.7	1.557	.5072	23.34	7.338
#1	.3457	2.271	206.6	165.4	2.412	3.202
#2	4.286	1.140	201.8	164.2	1.893	3.278
#3	-1.597	-.1525	200.6	163.9	3.033	2.850

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	11.28	24.92	3125.	1721.
Stddev	.22	.33	49.	13.
%RSD	1.975	1.339	1.571	.7538
#1	11.05	25.30	3181.	1723.
#2	11.50	24.81	3104.	1732.
#3	11.29	24.66	3090.	1707.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	9464.7	47638.	10399.
Stddev	84.7	482.	187.
%RSD	.89511	1.0122	1.7957
#1	9367.8	47089.	10213.
#2	9501.3	47993.	10397.
#3	9524.9	47832.	10586.

Sample Name: 460-112480-a-1-a@4 Acquired: 4/22/2016 15:58:17 Type: Unk
Method: BC042116(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	72450.	31.13	-1.747	200.3	5.557	3855.
Stddev	283.	.51	.030	.2	.228	13.
%RSD	.3906	1.637	1.720	.0802	4.105	.3494
#1	72130.	30.56	-1.747	200.4	5.511	3840.
#2	72660.	31.32	-1.717	200.5	5.356	3864.
#3	72570.	31.52	-1.777	200.2	5.805	3862.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.106	42.00	137.4	54.82	135800.	4377.
Stddev	.124	.13	.3	.27	300.	19.
%RSD	5.871	.3105	.1985	.4875	.2206	.4345
#1	-2.241	42.06	137.2	54.76	135500.	4366.
#2	-1.999	41.85	137.5	55.11	135800.	4366.
#3	-2.078	42.09	137.7	54.58	136100.	4399.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	12390.	1641.	117.8	66.06	46.20	1.646
Stddev	30.	3.	5.0	.60	1.67	1.100
%RSD	.2410	.1910	4.272	.9111	3.619	66.81
#1	12360.	1638.	120.9	65.37	46.22	1.151
#2	12410.	1642.	120.4	66.38	47.87	2.906
#3	12410.	1644.	112.0	66.44	44.52	.8804

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-112480-a-1-a@4 Acquired: 4/22/2016 15:58:17 Type: Unk
Method: BC042116(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.7094	2.269	212.9	163.6	2.227	3.219
Stddev	3.247	.751	.1	.7	.176	.305
%RSD	457.7	33.09	.0329	.4516	7.899	9.485
#1	-1.805	1.875	212.8	163.5	2.422	3.268
#2	4.376	1.797	212.9	162.9	2.080	3.498
#3	-.4424	3.135	212.8	164.4	2.180	2.893

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	11.42	25.51	3420.	1881.
Stddev	.65	.14	11.	7.
%RSD	5.698	.5329	.3220	.3676
#1	11.88	25.67	3409.	1882.
#2	11.71	25.43	3420.	1886.
#3	10.68	25.44	3431.	1873.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	9344.4	47462.	10304.
Stddev	40.9	77.	22.
%RSD	.43804	.16210	.21723
#1	9298.0	47373.	10329.
#2	9375.4	47509.	10288.
#3	9359.7	47504.	10293.

Sample Name: sd 460-112480-a-1-a Acquired: 4/22/2016 16:01:58 Type: Unk
Method: BC042116(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	14610.	5.317	-3358	40.04	1.067	729.5
Stddev	16.	3.879	.3026	.31	.117	6.4
%RSD	.1111	72.96	90.11	.7771	10.98	.8748

#1	14630.	8.439	-.3587	39.70	1.185	727.9
#2	14600.	.9739	-.0224	40.32	.9513	736.5
#3	14610.	6.538	-.6262	40.09	1.064	724.0

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.5556	8.406	27.79	10.02	27580.	884.5
Stddev	.0525	.248	.35	.23	24.	24.2
%RSD	9.458	2.954	1.277	2.278	.0879	2.731

#1	-.6082	8.525	27.41	9.885	27560.	880.0
#2	-.5554	8.573	28.11	9.892	27610.	863.0
#3	-.5031	8.121	27.86	10.28	27580.	910.6

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2524.	334.5	28.25	12.77	8.991	.9478
Stddev	4.	.1	.69	.40	.400	1.748
%RSD	.1583	.0178	2.455	3.169	4.444	184.4

#1	2520.	334.6	29.01	12.85	9.399	-.4140
#2	2525.	334.5	28.08	12.33	8.973	2.919
#3	2527.	334.5	27.65	13.13	8.600	.3386

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: sd 460-112480-a-1-a Acquired: 4/22/2016 16:01:58 Type: Unk
Method: BC042116(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.507	.0501	42.21	33.80	.3189	.6879
Stddev	.081	.6954	.26	.11	.6707	.1982
%RSD	5.386	1387.	.6091	.3312	210.3	28.81
#1	1.440	.4109	42.41	33.81	1.014	.8897
#2	1.597	.4909	42.29	33.90	.2681	.6806
#3	1.485	-.7515	41.92	33.68	-.3249	.4935

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	2.575	5.104	687.7	387.8
Stddev	.898	.046	1.7	13.2
%RSD	34.89	.9045	.2443	3.414
#1	3.110	5.076	686.6	373.6
#2	3.076	5.157	686.8	399.9
#3	1.538	5.079	689.6	389.8

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	9406.4	47636.	10202.
Stddev	23.4	85.	55.
%RSD	.24893	.17801	.53730
#1	9427.2	47682.	10139.
#2	9410.8	47688.	10228.
#3	9381.0	47538.	10238.

Sample Name: 460-112480-a-2-a@4 Acquired: 4/22/2016 16:05:46 Type: Unk
Method: BC042116(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	71960.	22.10	-1.581	308.2	5.528	5322.
Stddev	435.	1.06	.046	.1	.097	52.
%RSD	.6046	4.784	2.934	.0350	1.748	.9713

#1	71460.	21.34	-1.625	308.3	5.514	5263.
#2	72240.	21.66	-1.586	308.2	5.439	5356.
#3	72180.	23.31	-1.533	308.1	5.631	5348.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.674	47.10	123.2	65.57	126000.	7992.
Stddev	.057	.26	1.2	.53	834.	45.
%RSD	3.393	.5451	.9348	.8046	.6618	.5668

#1	-1.610	46.80	122.0	65.10	125000.	7951.
#2	-1.718	47.22	124.3	66.14	126500.	8040.
#3	-1.695	47.27	123.1	65.47	126400.	7984.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	14740.	2563.	235.5	78.14	64.38	-.3485
Stddev	108.	18.	5.0	.62	1.03	.7841
%RSD	.7319	.7053	2.137	.7873	1.600	225.0

#1	14620.	2542.	238.6	77.95	64.65	.4968
#2	14820.	2573.	238.1	77.65	65.25	-.4900
#3	14780.	2573.	229.7	78.83	63.24	-1.052

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-112480-a-2-a@4 Acquired: 4/22/2016 16:05:46 Type: Unk
Method: BC042116(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.4927	.5047	198.7	177.4	3.775	3.971
Stddev	.2886	1.566	1.9	.4	.546	.417
%RSD	58.57	310.3	.9427	.2229	14.47	10.50
#1	.2498	2.295	196.6	177.2	4.403	4.065
#2	.4166	-.6117	199.9	177.8	3.511	3.515
#3	.8118	-.1694	199.7	177.1	3.411	4.333

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	11.87	31.61	3388.	1835.
Stddev	.32	.21	23.	15.
%RSD	2.701	.6716	.6647	.8353
#1	12.00	31.47	3362.	1817.
#2	11.51	31.50	3401.	1845.
#3	12.11	31.85	3401.	1843.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	9294.7	47213.	10229.
Stddev	62.6	255.	133.
%RSD	.67361	.53908	1.2970
#1	9238.2	46997.	10102.
#2	9283.9	47147.	10219.
#3	9362.0	47494.	10367.

Sample Name: 460-112480-a-3-a@4 Acquired: 4/22/2016 16:09:27 Type: Unk
Method: BC042116(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	68100.	58.27	-8585	383.5	4.351	16910.
Stddev	193.	2.42	.6375	.3	.103	120.
%RSD	.2838	4.159	74.25	.0761	2.360	.7095

#1	67880.	55.65	-.3715	383.3	4.467	16800.
#2	68220.	60.42	-1.580	383.4	4.314	16880.
#3	68210.	58.74	-.6240	383.8	4.272	17040.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.0960	30.09	201.1	243.1	93490.	4117.
Stddev	.1178	.38	.4	1.0	522.	35.
%RSD	122.7	1.277	.1823	.4158	.5577	.8621

#1	.2262	30.04	200.8	241.9	92950.	4076.
#2	-.0034	30.50	201.1	243.5	93550.	4139.
#3	.0653	29.74	201.5	243.8	93980.	4136.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	10220.	2783.	207.6	59.44	648.0	4.919
Stddev	45.	16.	4.3	.19	3.3	1.029
%RSD	.4399	.5627	2.091	.3120	.5116	20.93

#1	10170.	2768.	211.6	59.66	644.2	4.021
#2	10220.	2783.	208.2	59.31	650.5	6.042
#3	10260.	2799.	203.0	59.36	649.3	4.695

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-112480-a-3-a@4 Acquired: 4/22/2016 16:09:27 Type: Unk
Method: BC042116(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.698	1.270	158.4	381.5	7.604	4.301
Stddev	3.789	2.497	.6	3.0	.302	.225
%RSD	102.5	196.7	.3660	.7899	3.973	5.235
#1	5.925	-1.446	157.8	378.1	7.684	4.128
#2	5.847	3.467	158.9	382.7	7.859	4.220
#3	-6.774	1.789	158.5	383.8	7.270	4.555

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	6.385	66.02	1258.	1753.
Stddev	.395	.42	6.	10.
%RSD	6.186	.6356	.4735	.5712
#1	5.932	66.50	1252.	1757.
#2	6.567	65.75	1258.	1742.
#3	6.656	65.80	1264.	1761.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	9437.3	48079.	10680.
Stddev	33.7	381.	133.
%RSD	.35658	.79163	1.2479
#1	9474.6	48409.	10824.
#2	9428.4	48166.	10653.
#3	9409.1	47663.	10562.

Sample Name: 460-112480-a-4-a@4 Acquired: 4/22/2016 16:13:06 Type: Unk
Method: BC042116(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	64430.	50.19	-1.068	395.2	4.560	16090.
Stddev	110.	1.39	.154	1.5	.053	67.
%RSD	.1703	2.768	14.37	.3675	1.153	.4162
#1	64300.	51.66	-1.111	396.8	4.507	16030.
#2	64510.	50.01	-.8978	394.3	4.562	16090.
#3	64460.	48.90	-1.195	394.3	4.612	16160.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.1248	31.06	116.6	90.80	85170.	4080.
Stddev	.0888	.08	.4	.37	256.	25.
%RSD	71.16	.2510	.3451	.4047	.3007	.6177
#1	.2240	30.99	116.3	90.40	84890.	4051.
#2	.0528	31.14	117.1	91.11	85200.	4098.
#3	.0976	31.04	116.4	90.90	85400.	4090.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	8890.	2315.	208.0	55.73	302.2	3.800
Stddev	77.	7.	1.3	.86	2.0	3.242
%RSD	.8650	.3218	.6084	1.548	.6601	85.32
#1	8808.	2307.	207.3	54.79	301.4	7.540
#2	8901.	2317.	207.2	56.49	300.7	2.065
#3	8960.	2322.	209.4	55.89	304.5	1.795

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-112480-a-4-a@4 Acquired: 4/22/2016 16:13:06 Type: Unk
Method: BC042116(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.545	-4.791	147.6	340.4	5.593	3.543
Stddev	1.831	1.028	.4	1.6	.429	.277
%RSD	118.5	214.6	.2745	.4794	7.667	7.812

#1	1.317	-1.652	147.1	338.5	6.082	3.456
#2	-.1617	-.0525	147.9	341.4	5.280	3.320
#3	3.479	.2670	147.6	341.3	5.417	3.852

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	6.719	46.56	1170.	1893.
Stddev	.566	.10	2.	28.
%RSD	8.416	.2140	.1504	1.477

#1	6.109	46.52	1168.	1861.
#2	7.225	46.68	1171.	1901.
#3	6.822	46.49	1170.	1915.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	9541.3	48912.	10832.
Stddev	39.4	104.	8.
%RSD	.41304	.21161	.07099

#1	9518.5	48909.	10826.
#2	9518.6	48809.	10840.
#3	9586.8	49016.	10828.

Sample Name: 460-112510-d-9-a@4 Acquired: 4/22/2016 16:16:47 Type: Unk
Method: BC042116(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	47880.	117.4	-8965	371.3	3.330	4869.
Stddev	29.	1.5	.7095	2.4	.121	12.
%RSD	.0604	1.278	79.14	.6357	3.621	.2564
#1	47860.	118.8	-.0952	368.7	3.424	4865.
#2	47910.	115.8	-1.445	373.3	3.371	4859.
#3	47860.	117.5	-1.150	372.0	3.194	4883.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.3084	52.19	113.0	118.0	95400.	3887.
Stddev	.1051	.34	.4	1.1	121.	16.
%RSD	34.09	.6547	.3157	.9512	.1266	.4190
#1	-.2468	51.82	113.1	117.0	95290.	3887.
#2	-.2487	52.49	112.6	117.8	95390.	3870.
#3	-.4298	52.26	113.3	119.2	95530.	3903.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	8254.	956.5	118.6	60.28	297.9	5.028
Stddev	35.	.9	4.1	.39	3.1	.609
%RSD	.4264	.0915	3.455	.6423	1.051	12.12
#1	8228.	955.7	123.4	60.06	294.9	4.821
#2	8239.	956.5	116.4	60.05	297.6	5.713
#3	8294.	957.4	116.1	60.72	301.1	4.548

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-112510-d-9-a@4 Acquired: 4/22/2016 16:16:47 Type: Unk
Method: BC042116(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.146	-.0141	183.1	418.4	3.784	4.052
Stddev	2.611	5.244	1.5	2.2	.409	.141
%RSD	121.7	37180.	.8020	.5142	10.80	3.473
#1	-0.2633	-2.103	182.0	416.1	3.449	3.905
#2	4.920	5.953	182.6	418.6	3.663	4.185
#3	1.780	-3.892	184.8	420.4	4.240	4.067

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	9.278	37.87	2003.	2089.
Stddev	.536	.09	1.	22.
%RSD	5.781	.2348	.0577	1.059
#1	8.659	37.90	2002.	2073.
#2	9.592	37.94	2004.	2081.
#3	9.583	37.77	2004.	2115.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	9470.7	48146.	10749.
Stddev	33.9	234.	91.
%RSD	.35830	.48564	.85097
#1	9454.8	47888.	10673.
#2	9447.7	48205.	10725.
#3	9509.7	48344.	10850.

Sample Name: CCV Acquired: 4/22/2016 16:20:28 Type: QC
Method: BC042116(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	125400.	2494.	1245.	10190.	1019.	126900.
Stddev	90.	4.	1.	7.	2.	589.
%RSD	.0721	.1571	.0455	.0693	.1622	.4638

#1	125400.	2498.	1246.	10190.	1018.	127600.
#2	125300.	2490.	1245.	10200.	1018.	126800.
#3	125300.	2492.	1245.	10190.	1021.	126400.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1268.	2525.	5117.	12520.	101900.	49830.
Stddev	1.	2.	18.	8.	377.	67.
%RSD	.0961	.0681	.3541	.0641	.3700	.1349

#1	1269.	2526.	5132.	12510.	102300.	49800.
#2	1267.	2526.	5123.	12520.	101800.	49790.
#3	1267.	2523.	5097.	12530.	101600.	49910.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	125200.	5184.	127900.	2546.	7611.	994.0
Stddev	477.	15.	190.	3.	4.	2.6
%RSD	.3809	.2860	.1482	.1301	.0586	.2567

#1	125700.	5200.	128100.	2546.	7616.	993.3
#2	125200.	5181.	127700.	2550.	7607.	996.9
#3	124800.	5171.	127900.	2543.	7610.	991.9

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCV Acquired: 4/22/2016 16:20:28 Type: QC
Method: BC042116(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2470.	2551.	2536.	2564.	949.3	2477.
Stddev	2.	3.	6.	5.	1.0	3.
%RSD	.0887	.1171	.2517	.2026	.1070	.1084
#1	2473.	2548.	2543.	2570.	949.8	2475.
#2	2468.	2552.	2536.	2563.	950.0	2480.
#3	2471.	2553.	2530.	2560.	948.2	2477.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	1008.	5071.	10520.	9405.
Stddev	2.	12.	8.	128.
%RSD	.1986	.2415	.0788	1.355
#1	1010.	5061.	10530.	9289.
#2	1009.	5066.	10510.	9385.
#3	1006.	5084.	10510.	9542.

Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	8935.6	45966.	10158.
Stddev	9.6	229.	104.
%RSD	.10788	.49770	1.0222
#1	8935.8	45709.	10049.
#2	8945.2	46043.	10171.
#3	8925.9	46147.	10255.

Sample Name: CCB Acquired: 4/22/2016 16:23:53 Type: QC
Method: BC042116(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F 226.8	1.754	-.0814	.4673	1.324	-62.93
Stddev	455.0	.465	.3189	.2752	2.319	3.71
%RSD	200.6	26.52	391.7	58.88	175.2	5.900
#1	-38.38	1.240	-.2701	.7615	.0005	-59.88
#2	752.2	1.875	.2868	.4242	4.001	-61.84
#3	-33.43	2.146	-.2610	.2162	-.0301	-67.06

Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	200.0					
Low Limit	-200.0					

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.1213	-.0137	.3388	-.4004	-12.87	108.8
Stddev	.1153	.0637	.2759	.5380	15.96	139.9
%RSD	95.07	464.9	81.44	134.4	124.0	128.6
#1	.2518	-.0624	.1704	-.1905	4.620	44.35
#2	.0329	.0584	.1888	-1.012	-16.58	269.4
#3	.0793	-.0370	.6573	.0011	-26.65	12.76

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-40.29	.2657	187.7	-.8035	-1.066	1.435
Stddev	6.19	.1426	287.2	.6811	.096	1.474
%RSD	15.36	53.68	153.0	84.77	8.963	102.8
#1	-38.45	.4244	41.26	-1.247	-1.128	1.279
#2	-35.23	.2247	518.6	-.0192	-.9560	2.980
#3	-47.19	.1481	3.208	-1.144	-1.114	.0444

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: CCB Acquired: 4/22/2016 16:23:53 Type: QC
Method: BC042116(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.414	-.6946	-.5246	.2176	1.570	1.888
Stddev	3.204	.8011	.2974	.2090	.443	.410
%RSD	226.6	115.3	56.70	96.04	28.22	21.70
#1	1.574	-1.618	-.8652	.4149	2.025	2.207
#2	4.534	-.2866	-.3159	.2393	1.547	1.426
#3	-1.867	-.1797	-.3928	-.0014	1.139	2.031

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.3095	6.593	1.691	38.77
Stddev	.9662	11.15	.314	23.48
%RSD	312.1	169.2	18.59	60.56
#1	.8335	.1907	1.980	20.52
#2	.9005	19.47	1.738	65.26
#3	-.8054	.1171	1.356	30.53

Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	9398.7	47583.	10203.
Stddev	21.9	177.	106.
%RSD	.23297	.37234	1.0432
#1	9377.4	47559.	10275.
#2	9397.6	47771.	10081.
#3	9421.2	47419.	10254.

Sample Name: CCVL Acquired: 4/22/2016 16:27:45 Type: QC
Method: BC042116(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	149.9	15.23	8.960	197.1	1.894	4771.
Stddev	8.4	2.53	.238	3.3	.072	3.
%RSD	5.595	16.61	2.656	1.669	3.789	.0532

#1	143.4	16.61	9.221	194.6	1.854	4771.
#2	159.4	12.31	8.906	195.9	1.977	4773.
#3	147.1	16.78	8.754	200.8	1.851	4768.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.158	49.59	10.17	22.24	163.4	4649.
Stddev	.467	.82	.28	.61	2.8	25.
%RSD	11.23	1.644	2.759	2.753	1.714	.5473

#1	3.973	48.99	10.04	21.67	161.7	4634.
#2	3.812	49.27	10.49	22.17	161.8	4678.
#3	4.689	50.52	9.975	22.89	166.6	4634.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4556.	15.64	4784.	40.87	F 13.23	18.60
Stddev	18.	.10	8.	1.02	1.45	1.91
%RSD	.4026	.6583	.1701	2.506	10.94	10.28

#1	4540.	15.53	4791.	39.80	12.67	18.19
#2	4551.	15.64	4775.	40.95	12.14	16.92
#3	4576.	15.73	4786.	41.85	14.87	20.68

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value					10.00	
Range					30.50%	

Sample Name: CCVL Acquired: 4/22/2016 16:27:45 Type: QC
Method: BC042116(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	17.04	18.28	47.60	35.44	49.55	18.70
Stddev	2.78	1.88	.41	1.01	.22	.67
%RSD	16.34	10.28	.8606	2.852	.4408	3.587

#1	13.86	16.11	48.07	34.66	49.62	18.32
#2	19.06	19.29	47.30	35.07	49.73	18.31
#3	18.19	19.43	47.44	36.58	49.31	19.48

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	47.42	19.73	21.47	F 26.82
Stddev	.55	.14	.41	8.26
%RSD	1.153	.7096	1.897	30.80

#1	48.05	19.68	21.01	24.39
#2	47.19	19.89	21.79	36.02
#3	47.03	19.63	21.60	20.05

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				200.0
Range				-30.50%

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	9597.0	48757.	10681.
Stddev	33.0	311.	191.
%RSD	.34427	.63721	1.7892

#1	9631.6	48499.	10527.
#2	9593.6	49102.	10895.
#3	9565.8	48671.	10622.

Sample Name: 460-112510-c-10-a@4 Acquired: 4/22/2016 16:31:32 Type: Unk
Method: BC042116(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	47870.	253.6	-.3377	259.7	2.951	4490.
Stddev	474.	2.8	.1058	.4	.100	49.
%RSD	.9904	1.109	31.32	.1393	3.381	1.086
#1	47330.	251.9	-.2283	259.6	3.060	4434.
#2	48180.	256.9	-.3454	260.1	2.932	4522.
#3	48110.	252.2	-.4395	259.4	2.863	4514.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.6449	57.86	102.6	71.83	79430.	3319.
Stddev	.1262	.50	.9	.59	529.	52.
%RSD	19.56	.8720	.8479	.8171	.6655	1.554
#1	-.5142	58.25	102.5	72.29	78820.	3260.
#2	-.6544	57.29	103.5	71.17	79760.	3344.
#3	-.7660	58.03	101.8	72.03	79710.	3353.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	8487.	813.8	116.2	52.63	131.7	2.120
Stddev	61.	4.9	2.6	.58	1.4	1.004
%RSD	.7244	.6063	2.266	1.111	1.073	47.36
#1	8424.	808.1	117.3	53.09	130.2	1.639
#2	8492.	817.2	118.1	52.83	133.0	3.274
#3	8547.	816.0	113.2	51.97	131.9	1.447

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-112510-c-10-a@4 Acquired: 4/22/2016 16:31:32 Type: Unk
Method: BC042116(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.328	.1544	150.8	284.7	6.322	2.531
Stddev	2.260	.9818	.8	.6	.218	.122
%RSD	67.91	636.1	.5610	.2185	3.442	4.808
#1	2.364	.8439	150.1	284.2	6.304	2.462
#2	5.910	.5889	151.7	284.6	6.114	2.460
#3	1.709	-.9697	150.7	285.4	6.548	2.672

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	6.499	32.76	1996.	1998.
Stddev	1.027	.11	4.	27.
%RSD	15.81	.3379	.2013	1.372
#1	7.174	32.69	1991.	2022.
#2	7.005	32.89	1997.	1968.
#3	5.317	32.71	1999.	2006.

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	9383.5	47781.	10669.
Stddev	20.1	206.	126.
%RSD	.21396	.43079	1.1830
#1	9363.0	47970.	10814.
#2	9384.3	47562.	10587.
#3	9403.1	47810.	10606.

Sample Name: 460-112520-d-21-a@4 Acquired: 4/22/2016 16:35:14 Type: Unk
Method: BC042116(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	20310.	21.69	-.1933	93.16	.6231	2508.
Stddev	89.	2.20	.0454	.04	.0754	25.
%RSD	.4364	10.15	23.50	.0472	12.11	.9926

#1	20210.	24.23	-.1754	93.15	.6515	2480.
#2	20360.	20.46	-.2449	93.20	.6802	2528.
#3	20360.	20.39	-.1595	93.11	.5376	2515.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.1569	13.74	42.12	82.09	35930.	1163.
Stddev	.0884	.23	.59	.31	272.	69.
%RSD	56.31	1.641	1.409	.3797	.7564	5.957

#1	.1852	13.99	41.47	82.06	35620.	1165.
#2	.2277	13.56	42.64	81.80	36030.	1231.
#3	.0579	13.67	42.24	82.42	36130.	1093.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1147.	305.2	187.4	88.71	165.6	5.321
Stddev	17.	1.4	9.3	.90	2.0	.603
%RSD	1.478	.4587	4.960	1.012	1.236	11.34

#1	1128.	303.9	186.3	89.35	163.3	5.288
#2	1160.	305.2	197.3	89.09	166.8	4.735
#3	1153.	306.7	178.8	87.68	166.8	5.940

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-112520-d-21-a@4 Acquired: 4/22/2016 16:35:14 Type: Unk
Method: BC042116(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.229	-1.867	44.78	176.1	5.645	11.75
Stddev	3.252	.351	.95	1.8	.332	.14
%RSD	100.7	18.78	2.130	1.032	5.878	1.210
#1	3.466	-2.248	43.70	174.0	5.969	11.60
#2	-.1348	-1.795	45.50	177.4	5.660	11.89
#3	6.355	-1.558	45.15	176.9	5.306	11.76

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	6.050	23.39	309.2	1478.
Stddev	1.244	.46	2.7	14.
%RSD	20.57	1.953	.8846	.9679
#1	6.696	23.51	306.1	1471.
#2	4.616	23.77	310.2	1468.
#3	6.839	22.88	311.2	1494.

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	9352.5	47539.	10434.
Stddev	8.1	313.	108.
%RSD	.08660	.65878	1.0347
#1	9349.3	47885.	10480.
#2	9346.5	47274.	10311.
#3	9361.7	47458.	10512.

Sample Name: 460-112376-f-5-c@4 Acquired: 4/22/2016 16:39:15 Type: Unk
Method: BC042116(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	28030.	9.621	-1.352	145.7	2.344	36920.
Stddev	98.	3.818	.214	.9	.100	218.
%RSD	.3480	39.68	15.81	.6128	4.252	.5898
#1	27920.	5.729	-1.137	146.0	2.331	36670.
#2	28100.	13.36	-1.564	146.4	2.449	36990.
#3	28080.	9.773	-1.354	144.7	2.251	37090.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.161	28.06	73.82	52.53	96060.	4781.
Stddev	.082	.37	.11	.96	313.	23.
%RSD	7.037	1.307	.1537	1.820	.3254	.4818
#1	-1.068	27.94	73.77	51.43	95700.	4791.
#2	-1.190	28.48	73.95	53.18	96200.	4798.
#3	-1.224	27.78	73.75	52.96	96280.	4755.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	24780.	1438.	1831.	50.21	13.82	.5743
Stddev	174.	5.	7.	.77	2.03	2.891
%RSD	.7017	.3559	.3776	1.533	14.65	503.4
#1	24580.	1432.	1823.	49.50	12.88	1.946
#2	24850.	1439.	1837.	50.09	16.14	2.524
#3	24910.	1442.	1833.	51.03	12.44	-2.747

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-112376-f-5-c@4 Acquired: 4/22/2016 16:39:15 Type: Unk
Method: BC042116(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.397	-1.348	134.7	130.1	2.597	4.389
Stddev	2.650	1.514	.9	1.3	.323	.137
%RSD	189.7	112.4	.6994	1.022	12.42	3.129
#1	.3599	-2.477	133.7	128.6	2.395	4.387
#2	-4.445	.3731	135.1	130.5	2.427	4.252
#3	-.1055	-1.939	135.4	131.2	2.969	4.527

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	2.509	44.00	2518.	1092.
Stddev	.086	.09	4.	44.
%RSD	3.424	.1979	.1557	4.072
#1	2.486	43.92	2514.	1043.
#2	2.437	44.09	2520.	1104.
#3	2.604	44.00	2522.	1130.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	9471.5	48016.	10395.
Stddev	18.4	196.	14.
%RSD	.19380	.40837	.13799
#1	9491.2	47791.	10393.
#2	9468.4	48109.	10382.
#3	9454.9	48149.	10411.

Sample Name: CCV Acquired: 4/22/2016 16:44:26 Type: QC
Method: BC042116(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	125500.	2494.	1248.	10190.	1021.	128100.
Stddev	365.	6.	3.	3.	2.	192.
%RSD	.2905	.2528	.2258	.0294	.1807	.1498

#1	125100.	2488.	1244.	10190.	1019.	128100.
#2	125800.	2493.	1249.	10190.	1022.	127900.
#3	125700.	2501.	1250.	10190.	1022.	128300.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1269.	2523.	5153.	12460.	102600.	49930.
Stddev	1.	1.	7.	25.	119.	183.
%RSD	.0973	.0435	.1361	.2040	.1156	.3658

#1	1268.	2523.	5152.	12430.	102500.	49720.
#2	1270.	2524.	5147.	12470.	102500.	50080.
#3	1268.	2522.	5161.	12480.	102700.	49980.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	126300.	5207.	128000.	2548.	7627.	990.2
Stddev	113.	5.	189.	3.	14.	7.3
%RSD	.0893	.1019	.1476	.1134	.1882	.7336

#1	126300.	5204.	128000.	2545.	7616.	986.1
#2	126100.	5205.	128100.	2551.	7643.	998.6
#3	126300.	5213.	127800.	2547.	7622.	986.0

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCV Acquired: 4/22/2016 16:44:26 Type: QC
Method: BC042116(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2465.	2554.	2545.	2573.	947.2	2477.
Stddev	7.	8.	1.	9.	3.7	4.
%RSD	.2773	.3063	.0320	.3326	.3920	.1465

#1	2460.	2545.	2544.	2575.	943.0	2474.
#2	2462.	2560.	2545.	2580.	950.1	2478.
#3	2472.	2557.	2546.	2564.	948.5	2481.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	1008.	5070.	10480.	9337.
Stddev	3.	10.	4.	50.
%RSD	.3043	.2026	.0421	.5391

#1	1006.	5058.	10490.	9285.
#2	1011.	5074.	10480.	9341.
#3	1006.	5077.	10480.	9385.

Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	8869.0	45144.	9996.9
Stddev	32.7	198.	82.6
%RSD	.36821	.43955	.82623

#1	8845.4	44934.	9970.2
#2	8855.4	45329.	9930.9
#3	8906.3	45169.	10090.

Sample Name: CCB Acquired: 4/22/2016 16:47:52 Type: QC
Method: BC042116(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-51.73	.7604	-.0612	2.126	-.0652	-55.14
Stddev	8.14	2.600	.1077	2.935	.0697	10.44
%RSD	15.74	341.9	175.9	138.0	107.0	18.94
#1	-53.32	3.573	-.0924	5.506	-.0555	-43.38
#2	-42.90	-1.554	.0586	.2220	-.1393	-63.33
#3	-58.95	.2615	-.1500	.6500	-.0008	-58.70

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.2794	.6111	.3504	-.7048	-7.812	26.86
Stddev	.3569	.6759	.4326	.3292	18.17	1.54
%RSD	127.8	110.6	123.5	46.70	232.6	5.728
#1	.6755	1.391	-.1489	-.7057	-.3213	25.86
#2	.1799	.2007	.6137	-1.034	5.413	26.10
#3	-.0173	.2413	.5864	-.3752	-28.53	28.64

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-34.55	.2154	20.72	.4994	1.400	2.171
Stddev	2.48	.1143	16.81	.8107	1.855	1.642
%RSD	7.175	53.04	81.12	162.3	132.5	75.62
#1	-35.42	.3446	39.23	1.273	3.443	1.344
#2	-36.48	.1743	16.50	-.3442	-.1785	4.062
#3	-31.76	.1274	6.424	.5696	.9354	1.108

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: CCB Acquired: 4/22/2016 16:47:52 Type: QC
Method: BC042116(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.878	-.8794	-.8442	.4951	1.993	2.117
Stddev	1.180	1.754	.3249	.7349	.494	.934
%RSD	62.80	199.5	38.49	148.4	24.80	44.12
#1	.8483	-1.550	-.8792	1.344	2.563	3.134
#2	1.622	1.111	-1.150	.0754	1.724	1.298
#3	3.165	-2.199	-.5032	.0662	1.691	1.918

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.4765	.1796	1.680	17.95
Stddev	.7675	.0587	.168	9.20
%RSD	161.1	32.68	9.989	51.25
#1	.9736	.2373	1.860	26.75
#2	-.4075	.1816	1.651	18.71
#3	.8633	.1199	1.528	8.397

Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	9346.7	47095.	10006.
Stddev	10.4	135.	60.
%RSD	.11169	.28732	.59695
#1	9347.5	46940.	9947.9
#2	9335.9	47158.	10003.
#3	9356.7	47188.	10067.

Sample Name: CCVL Acquired: 4/22/2016 16:51:43 Type: QC
Method: BC042116(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	141.1	14.44	8.650	186.3	1.775	4588.
Stddev	10.5	2.30	.296	.1	.094	42.
%RSD	7.454	15.95	3.428	.0369	5.274	.9094

#1	132.2	16.94	8.389	186.2	1.713	4540.
#2	152.7	14.00	8.973	186.3	1.730	4613.
#3	138.3	12.39	8.587	186.3	1.883	4611.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.633	46.91	9.408	21.02	150.5	4447.
Stddev	.056	.24	.393	.05	.7	54.
%RSD	1.543	.5069	4.177	.2434	.4873	1.225

#1	3.618	46.94	9.083	21.08	151.2	4386.
#2	3.586	46.66	9.844	21.01	150.7	4467.
#3	3.695	47.14	9.296	20.98	149.7	4489.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4356.	14.88	4580.	37.92	9.907	17.79
Stddev	73.	.17	27.	.43	.813	1.41
%RSD	1.673	1.126	.5824	1.125	8.211	7.901

#1	4274.	14.69	4550.	37.63	8.976	19.07
#2	4382.	14.99	4599.	37.71	10.26	18.01
#3	4413.	14.97	4593.	38.41	10.48	16.29

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCVL Acquired: 4/22/2016 16:51:43 Type: QC
Method: BC042116(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	17.85	16.89	45.78	33.73	47.13	17.60
Stddev	2.60	.65	.15	.30	.38	.02
%RSD	14.56	3.822	.3332	.8806	.8121	.1112

#1	14.90	17.28	45.61	33.39	47.08	17.59
#2	19.82	17.24	45.81	33.95	46.77	17.62
#3	18.83	16.14	45.91	33.84	47.53	17.58

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	45.12	18.83	20.55	F 10.28
Stddev	.01	.15	.07	13.18
%RSD	.0124	.7733	.3237	128.3

#1	45.12	18.73	20.56	5.888
#2	45.11	18.76	20.62	-.1475
#3	45.11	19.00	20.49	25.10

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				200.0
Range				-30.50%

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	9514.7	48176.	10338.
Stddev	54.9	488.	138.
%RSD	.57702	1.0125	1.3385

#1	9576.8	48738.	10497.
#2	9494.8	47934.	10244.
#3	9472.6	47857.	10274.

Sample Name: mb 460-364053/1-a Acquired: 4/22/2016 17:03:11 Type: QC

Method: BC042116(v5) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-50.21	-.6763	-.1768	.0104	-.0612	-57.27
Stddev	6.54	1.196	.3760	.0883	.1060	1.60
%RSD	13.03	176.8	212.7	845.9	173.1	2.793

#1	-42.66	-1.294	.2030	.0233	-.1040	-59.04
#2	-53.82	-1.437	-.5488	-.0836	-.1391	-55.93
#3	-54.14	.7017	-.1844	.0916	.0595	-56.84

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.0972	-.0592	.1146	-.6030	-20.59	-1.832
Stddev	.0064	.2126	.1894	.2671	2.06	57.51
%RSD	6.632	359.3	165.3	44.30	9.994	3140.

#1	-.0985	.1043	.3030	-.8126	-22.62	-14.00
#2	-.1029	-.2995	-.0758	-.6942	-18.50	60.79
#3	-.0902	.0177	.1165	-.3023	-20.64	-52.28

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-42.87	-.0136	-2.874	.0753	.2366	-.0037
Stddev	2.48	.0913	9.469	.5366	.0726	2.364
%RSD	5.785	670.9	329.4	712.8	30.69	64680.

#1	-41.00	-1.191	-13.27	.6945	.1560	-.8529
#2	-41.93	.0390	-.6214	-.2515	.2969	-1.826
#3	-45.68	.0393	5.265	-.2172	.2567	2.667

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: mb 460-364053/1-a Acquired: 4/22/2016 17:03:11 Type: QC
Method: BC042116(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.7624	-.8072	-.1415	-.1988	-.0019	.1457
Stddev	4.312	.4187	.0450	.1750	.3743	.2560
%RSD	565.6	51.87	31.77	88.04	19660.	175.6
#1	4.272	-.9483	-.0907	-.3747	.2356	.4161
#2	-4.051	-.3362	-.1760	-.1971	-.4334	.1140
#3	2.066	-1.137	-.1579	-.0246	.1921	-.0929

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.3974	-.0088	.0688	20.64
Stddev	.3163	.0123	.1353	12.19
%RSD	79.59	140.2	196.5	59.03
#1	.7076	-.0224	.0845	10.01
#2	.4094	.0017	.1956	33.94
#3	.0753	-.0057	-.0736	17.98

Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	9516.0	48539.	10521.
Stddev	75.1	631.	148.
%RSD	.78936	1.2993	1.4026
#1	9431.4	47969.	10362.
#2	9541.8	48432.	10548.
#3	9574.9	49216.	10654.

Sample Name: 460-112518-a-1-a@4 Acquired: 4/22/2016 17:07:03 Type: Unk
Method: BC042116(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	27500.	20.95	-1.375	301.5	1.710	5065.
Stddev	27.	2.70	.194	.3	.143	16.
%RSD	.0988	12.90	14.08	.0865	8.378	.3121
#1	27470.	18.98	-1.597	301.8	1.680	5081.
#2	27500.	19.84	-1.241	301.2	1.584	5050.
#3	27530.	24.03	-1.288	301.5	1.865	5064.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.662	19.70	43.38	715.3	52000.	1112.
Stddev	.034	.06	.36	2.2	19.	12.
%RSD	2.054	.3141	.8401	.3090	.0368	1.117
#1	1.682	19.68	43.74	716.4	52000.	1102.
#2	1.682	19.77	43.01	716.8	51990.	1108.
#3	1.623	19.66	43.38	712.8	52020.	1126.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3869.	1678.	93.57	64.47	2738.	.0543
Stddev	15.	2.	4.53	.19	7.	1.905
%RSD	.3891	.1323	4.837	.2983	.2519	3510.
#1	3858.	1679.	90.54	64.33	2732.	-2.129
#2	3863.	1675.	98.77	64.39	2736.	1.375
#3	3886.	1679.	91.40	64.69	2745.	.9169

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-112518-a-1-a@4 Acquired: 4/22/2016 17:07:03 Type: Unk
Method: BC042116(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.422	-3.612	60.48	1062.	.9194	1.312
Stddev	2.358	.074	.41	2.	.5222	.156
%RSD	97.35	2.061	.6746	.1650	56.80	11.89
#1	4.714	-3.692	60.20	1062.	1.155	1.402
#2	.0025	-3.544	60.29	1061.	1.282	1.403
#3	2.551	-3.601	60.95	1064.	.3209	1.132

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	29.52	34.81	883.9	1233.
Stddev	.54	.14	2.7	24.
%RSD	1.835	.3957	.3029	1.977
#1	28.92	34.97	881.5	1209.
#2	29.67	34.72	886.8	1258.
#3	29.98	34.74	883.5	1233.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	9328.2	47007.	10262.
Stddev	21.8	482.	74.
%RSD	.23382	1.0254	.72061
#1	9303.3	46480.	10219.
#2	9343.7	47426.	10348.
#3	9337.6	47114.	10220.

Sample Name: 460-112556-a-12-d@4 Acquired: 4/22/2016 17:10:46 Type: Unk
Method: BC042116(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	24930.	67.74	-1.231	148.1	2.414	4388.
Stddev	249.	1.24	.466	.8	.149	44.
%RSD	1.0000	1.831	37.84	.5451	6.190	.9963
#1	24660.	68.98	-1.546	147.2	2.343	4344.
#2	24990.	66.49	-.6957	148.4	2.312	4387.
#3	25150.	67.74	-1.450	148.7	2.585	4432.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.313	32.93	107.6	112.6	130800.	4659.
Stddev	.018	.39	1.3	1.6	1022.	63.
%RSD	1.373	1.194	1.249	1.460	.7813	1.358
#1	-1.333	32.69	106.3	110.7	129700.	4586.
#2	-1.297	33.39	109.0	113.3	131000.	4692.
#3	-1.310	32.72	107.6	113.8	131800.	4698.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	9661.	883.3	1093.	119.9	64.47	5.548
Stddev	185.	6.3	18.	.4	1.37	1.658
%RSD	1.910	.7132	1.681	.3042	2.123	29.89
#1	9515.	876.4	1073.	119.4	63.05	5.512
#2	9600.	884.8	1098.	120.1	65.78	3.909
#3	9869.	888.7	1109.	120.0	64.57	7.225

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-112556-a-12-d@4 Acquired: 4/22/2016 17:10:46 Type: Unk
Method: BC042116(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.466	2.861	320.0	286.2	35.16	7.319
Stddev	3.093	2.276	3.6	1.9	.33	.161
%RSD	210.9	79.57	1.140	.6784	.9298	2.195

#1	2.865	.2538	315.8	284.3	34.90	7.137
#2	-2.079	3.874	321.9	286.2	35.04	7.442
#3	3.613	4.455	322.4	288.1	35.52	7.376

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	9.137	132.5	784.1	1270.
Stddev	.321	1.2	5.7	30.
%RSD	3.510	.8800	.7221	2.393

#1	9.119	131.2	777.6	1243.
#2	9.467	132.9	786.3	1303.
#3	8.826	133.4	788.3	1264.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	9348.1	47633.	10476.
Stddev	33.7	251.	63.
%RSD	.36081	.52705	.60367

#1	9334.9	47376.	10426.
#2	9386.4	47877.	10547.
#3	9323.0	47646.	10455.

Sample Name: 460-112456-c-2-e@4 Acquired: 4/22/2016 17:14:28 Type: Unk
Method: BC042116(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	68820.	26.75	-4.448	601.7	3.688	237300.
Stddev	666.	5.04	.9570	.6	.202	2870.
%RSD	.9675	18.85	215.2	.0946	5.476	1.209
#1	68090.	32.22	.6477	601.0	3.721	234100.
#2	68980.	25.75	-.8473	601.9	3.871	238100.
#3	69390.	22.28	-1.135	602.1	3.471	239700.

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.3899	49.35	229.3	102.1	131300.	13000.
Stddev	.0570	.05	3.6	.7	1302.	61.
%RSD	14.63	.1006	1.580	.6980	.9917	.4678
#1	-.4153	49.31	226.0	101.4	129800.	12960.
#2	-.3246	49.41	228.6	102.8	131800.	12960.
#3	-.4299	49.35	233.2	102.1	132300.	13070.

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	146600.	2972.	1222.	103.5	79.35	1.119
Stddev	1743.	29.	16.	.6	1.32	1.525
%RSD	1.189	.9810	1.309	.6223	1.664	136.3
#1	144700.	2939.	1206.	103.2	78.31	-.4415
#2	147200.	2984.	1221.	103.1	80.84	1.192
#3	148000.	2994.	1238.	104.3	78.91	2.605

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Sample Name: 460-112456-c-2-e@4 Acquired: 4/22/2016 17:14:28 Type: Unk
Method: BC042116(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-0.0042	-.7365	152.0	353.3	6.970	6.951
Stddev	2.430	.6050	2.2	2.7	.358	.247
%RSD	57800.	82.14	1.442	.7637	5.132	3.554
#1	-2.528	-.7570	149.5	350.2	6.947	6.724
#2	2.320	-.1216	153.1	355.1	7.340	6.914
#3	.1952	-1.331	153.4	354.7	6.625	7.214

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	5.993	137.6	3252.	2300.
Stddev	.605	.7	24.	19.
%RSD	10.09	.4891	.7278	.8209
#1	5.975	136.8	3225.	2281.
#2	5.398	138.1	3260.	2319.
#3	6.607	137.8	3270.	2299.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	9014.5	46913.	10419.
Stddev	19.1	299.	143.
%RSD	.21165	.63833	1.3716
#1	9027.1	47138.	10405.
#2	8992.6	47027.	10569.
#3	9023.8	46573.	10284.

Sample Name: 460-112409-a-1-b@4 Acquired: 4/22/2016 17:18:08 Type: Unk
Method: BC042116(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	69980.	29.57	-1.440	440.4	4.065	13470.
Stddev	104.	1.72	.278	.7	.174	37.
%RSD	.1486	5.807	19.30	.1524	4.273	.2718

#1	69880.	30.93	-1.700	440.4	3.969	13460.
#2	70090.	27.64	-1.147	441.0	4.265	13520.
#3	69960.	30.13	-1.475	439.7	3.960	13450.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.557	52.68	119.8	49.88	129600.	3769.
Stddev	.031	.20	.6	.71	239.	42.
%RSD	1.972	.3818	.5173	1.427	.1842	1.105

#1	-1.568	52.84	119.1	49.98	129700.	3730.
#2	-1.581	52.74	120.3	49.12	129800.	3764.
#3	-1.523	52.45	120.0	50.53	129300.	3813.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	14710.	4947.	327.0	68.51	108.8	4.600
Stddev	53.	8.	10.4	.58	.7	1.747
%RSD	.3610	.1518	3.196	.8446	.6046	37.99

#1	14730.	4948.	322.6	68.64	108.0	2.922
#2	14750.	4954.	319.4	69.01	109.0	4.468
#3	14650.	4939.	338.9	67.87	109.3	6.409

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-112409-a-1-b@4 Acquired: 4/22/2016 17:18:08 Type: Unk
Method: BC042116(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.409	-2.161	192.7	242.1	5.784	3.328
Stddev	2.325	2.198	.7	.7	.358	.219
%RSD	165.0	101.7	.3832	.3087	6.183	6.592
#1	3.314	-7.706	192.3	242.7	5.375	3.257
#2	-1.182	-4.695	192.2	242.2	6.039	3.153
#3	2.095	-1.018	193.5	241.2	5.939	3.574

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	4.267	77.97	807.1	2061.
Stddev	.436	.07	1.5	23.
%RSD	10.22	.0892	.1917	1.117
#1	4.440	77.95	805.4	2040.
#2	3.771	77.91	807.8	2056.
#3	4.590	78.05	808.2	2085.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	9348.2	47578.	10462.
Stddev	41.7	380.	131.
%RSD	.44561	.79883	1.2564
#1	9311.9	47265.	10414.
#2	9339.1	47468.	10361.
#3	9393.7	48001.	10610.

Sample Name: 460-112404-a-1-c@4 Acquired: 4/22/2016 17:21:50 Type: Unk
Method: BC042116(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	37710.	19.69	-.6053	293.2	2.381	27000.
Stddev	3.	2.07	.2274	.6	.086	149.
%RSD	.0086	10.51	37.58	.2023	3.611	.5506

#1	37710.	17.66	-.3516	292.6	2.331	27110.
#2	37700.	21.80	-.6733	293.6	2.480	27050.
#3	37710.	19.60	-.7909	293.5	2.331	26830.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.3364	25.54	110.5	120.7	71720.	4414.
Stddev	.0589	.09	.6	.5	362.	20.
%RSD	17.50	.3348	.5006	.4525	.5044	.4532

#1	.3985	25.62	109.9	120.2	71970.	4398.
#2	.3292	25.45	110.7	120.7	71890.	4408.
#3	.2814	25.54	110.9	121.2	71310.	4436.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	13340.	1593.	576.0	63.26	256.6	1.408
Stddev	78.	4.	4.6	.49	1.8	1.507
%RSD	.5843	.2634	.7995	.7794	.7063	107.1

#1	13370.	1596.	579.9	63.29	256.2	2.815
#2	13390.	1595.	577.1	62.75	258.6	-.1825
#3	13250.	1588.	570.9	63.73	255.1	1.590

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-112404-a-1-c@4 Acquired: 4/22/2016 17:21:50 Type: Unk
Method: BC042116(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.4995	-.2192	121.1	356.9	27.02	2.536
Stddev	1.762	1.039	.1	1.0	.78	.091
%RSD	352.8	474.2	.1034	.2885	2.893	3.601
#1	-1.093	-.3942	121.0	356.4	26.48	2.462
#2	.1991	-1.160	121.1	358.1	26.65	2.507
#3	2.393	.8964	121.3	356.2	27.91	2.638

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	10.77	106.3	1451.	1647.
Stddev	.64	.3	1.	20.
%RSD	5.962	.2431	.0663	1.185
#1	11.28	106.0	1452.	1645.
#2	10.99	106.3	1451.	1628.
#3	10.05	106.5	1450.	1667.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	9406.3	48009.	10586.
Stddev	62.0	732.	204.
%RSD	.65866	1.5250	1.9234
#1	9346.4	47351.	10366.
#2	9402.3	47879.	10623.
#3	9470.2	48798.	10768.

Sample Name: 460-112404-a-2-d@4 Acquired: 4/22/2016 17:25:32 Type: Unk
Method: BC042116(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	37850.	17.18	.1288	404.3	2.391	102100.
Stddev	205.	1.21	.0329	1.0	.043	205.
%RSD	.5404	7.033	25.53	.2473	1.812	.2006

#1	37650.	17.15	.0912	403.2	2.440	101800.
#2	37850.	18.40	.1520	404.6	2.373	102200.
#3	38060.	15.99	.1433	405.1	2.359	102200.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.0528	28.67	82.24	141.6	66710.	5177.
Stddev	.0551	.09	.51	.8	52.	37.
%RSD	104.3	.2973	.6157	.5872	.0776	.7103

#1	.0577	28.71	81.67	140.6	66660.	5179.
#2	-.0046	28.73	82.66	142.3	66700.	5139.
#3	.1053	28.58	82.38	141.8	66760.	5212.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	18420.	1562.	1102.	64.06	320.8	1.965
Stddev	35.	3.	9.	.73	1.6	2.443
%RSD	.1873	.1701	.8162	1.135	.4941	124.3

#1	18420.	1559.	1096.	63.28	322.4	1.959
#2	18390.	1563.	1097.	64.72	320.8	4.412
#3	18450.	1563.	1112.	64.18	319.2	-.4750

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-112404-a-2-d@4 Acquired: 4/22/2016 17:25:32 Type: Unk
Method: BC042116(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.614	-.7192	146.5	471.3	40.17	3.088
Stddev	.700	2.774	1.4	1.0	.50	.106
%RSD	43.39	385.7	.9893	.2028	1.232	3.420
#1	1.969	2.197	144.8	470.2	40.71	3.035
#2	.8074	-3.324	147.0	472.1	40.04	3.209
#3	2.066	-1.031	147.6	471.6	39.75	3.019

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	13.82	488.9	1930.	1650.
Stddev	.31	.7	5.	10.
%RSD	2.235	.1398	.2502	.5962
#1	14.12	488.5	1924.	1662.
#2	13.84	488.6	1934.	1643.
#3	13.51	489.7	1932.	1646.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	9208.2	47051.	10382.
Stddev	44.9	234.	19.
%RSD	.48719	.49653	.18775
#1	9182.8	46806.	10403.
#2	9181.8	47075.	10364.
#3	9260.0	47271.	10378.

Sample Name: 460-112404-a-3-d@4 Acquired: 4/22/2016 17:29:14 Type: Unk
Method: BC042116(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	31570.	11.28	-.6224	170.3	1.660	16460.
Stddev	107.	2.13	.2237	.2	.062	53.
%RSD	.3374	18.91	35.94	.1056	3.760	.3198
#1	31510.	10.86	-.8676	170.4	1.664	16520.
#2	31510.	9.391	-.4296	170.1	1.595	16440.
#3	31700.	13.60	-.5699	170.5	1.720	16420.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.5023	22.09	49.73	73.11	61630.	2845.
Stddev	.0756	.07	.72	.25	181.	28.
%RSD	15.05	.3346	1.445	.3474	.2937	.9929
#1	-.4348	22.06	50.53	72.85	61830.	2835.
#2	-.4881	22.04	49.50	73.35	61600.	2822.
#3	-.5840	22.18	49.15	73.14	61470.	2876.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	11760.	1144.	397.0	47.05	99.98	.9955
Stddev	44.	2.	7.8	.67	.77	.8003
%RSD	.3703	.1354	1.955	1.416	.7746	80.39
#1	11810.	1146.	400.6	47.81	99.77	.0726
#2	11740.	1144.	388.1	46.62	100.8	1.417
#3	11730.	1143.	402.4	46.70	99.33	1.497

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-112404-a-3-d@4 Acquired: 4/22/2016 17:29:14 Type: Unk
Method: BC042116(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.4413	-.3783	106.5	181.4	18.55	1.691
Stddev	2.379	.5439	.3	.6	.70	.207
%RSD	539.0	143.8	.2949	.3083	3.752	12.24
#1	-0.7475	-0.3372	106.5	182.0	17.79	1.712
#2	-1.109	-.9416	106.2	181.2	18.71	1.887
#3	3.180	.1439	106.8	181.0	19.16	1.474

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	4.046	66.37	1090.	1237.
Stddev	1.285	.16	3.	8.
%RSD	31.77	.2367	.2897	.6725
#1	5.501	66.31	1086.	1229.
#2	3.065	66.25	1090.	1237.
#3	3.572	66.55	1093.	1245.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	9412.9	48054.	10595.
Stddev	52.6	632.	109.
%RSD	.55924	1.3145	1.0305
#1	9352.5	47332.	10471.
#2	9449.2	48323.	10677.
#3	9437.0	48506.	10636.

Sample Name: 460-112560-d-21-a@4 Acquired: 4/22/2016 17:32:56 Type: Unk
Method: BC042116(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	52830.	36.80	-.2144	412.1	3.264	3740.
Stddev	341.	2.10	.3291	.8	.113	35.
%RSD	.6459	5.701	153.5	.1929	3.473	.9409
#1	52450.	34.59	-.5860	412.0	3.279	3703.
#2	52950.	38.76	.0407	412.9	3.144	3744.
#3	53100.	37.05	-.0981	411.4	3.370	3773.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	31.68	26.58	97.39	130.5	73700.	2680.
Stddev	.08	.21	.17	.5	416.	18.
%RSD	.2602	.7965	.1737	.4183	.5639	.6604
#1	31.65	26.74	97.21	130.0	73260.	2669.
#2	31.62	26.34	97.42	131.1	73730.	2671.
#3	31.77	26.67	97.54	130.4	74090.	2701.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	7906.	523.1	184.7	59.29	278.7	1.893
Stddev	88.	2.8	4.8	.34	1.7	1.186
%RSD	1.115	.5367	2.603	.5757	.6259	62.68
#1	7813.	520.2	186.6	59.26	277.4	2.746
#2	7917.	523.4	188.3	58.97	280.7	.5381
#3	7988.	525.8	179.3	59.65	278.0	2.394

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-112560-d-21-a@4 Acquired: 4/22/2016 17:32:56 Type: Unk
Method: BC042116(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.790	-.8348	130.7	315.3	3.621	3.100
Stddev	2.317	4.221	.5	2.4	.797	.155
%RSD	48.37	505.7	.3561	.7677	22.00	4.988
#1	3.400	-4.095	130.2	312.8	3.995	3.278
#2	7.465	3.933	131.2	315.4	4.163	2.998
#3	3.506	-2.343	130.7	317.7	2.706	3.024

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	19.53	28.14	1759.	1721.
Stddev	.65	.15	10.	13.
%RSD	3.309	.5301	.5504	.7790
#1	19.96	28.05	1749.	1706.
#2	19.85	28.32	1758.	1730.
#3	18.79	28.07	1769.	1729.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	9510.3	48034.	10675.
Stddev	65.7	456.	229.
%RSD	.69116	.95031	2.1447
#1	9564.2	48310.	10914.
#2	9529.6	48286.	10653.
#3	9437.1	47507.	10457.

Sample Name: 460-112564-c-1-a@4 Acquired: 4/22/2016 17:36:37 Type: Unk
Method: BC042116(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	46480.	86.04	-.0808	496.9	2.549	12550.
Stddev	237.	2.07	.2621	1.9	.031	143.
%RSD	.5089	2.407	324.4	.3796	1.199	1.136

#1	46210.	83.95	-.2821	494.8	2.584	12400.
#2	46630.	88.09	-.1757	498.4	2.536	12580.
#3	46610.	86.07	.2155	497.5	2.527	12680.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.495	39.33	105.3	198.4	91520.	3284.
Stddev	.064	.42	1.1	1.2	747.	7.
%RSD	2.580	1.075	1.073	.6113	.8163	.2046

#1	2.538	39.07	104.1	197.1	90730.	3276.
#2	2.527	39.82	105.6	198.6	91620.	3287.
#3	2.421	39.11	106.3	199.5	92210.	3288.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	7301.	989.2	124.9	67.29	1395.	7.246
Stddev	99.	7.8	7.0	1.51	7.	.981
%RSD	1.354	.7918	5.601	2.241	.5208	13.54

#1	7192.	980.4	128.7	65.89	1387.	7.993
#2	7326.	991.7	129.1	67.08	1399.	7.610
#3	7385.	995.5	116.8	68.88	1400.	6.135

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-112564-c-1-a@4 Acquired: 4/22/2016 17:36:37 Type: Unk
Method: BC042116(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.121	-.0178	140.0	1903.	5.974	3.738
Stddev	3.635	.8395	1.6	11.	.368	.188
%RSD	116.5	4708.	1.166	.5991	6.158	5.027
#1	-.3114	.9014	138.3	1891.	5.557	3.869
#2	2.744	-.7440	140.3	1906.	6.250	3.822
#3	6.930	-.2108	141.5	1914.	6.116	3.523

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	17.75	93.76	1342.	1699.
Stddev	.33	.59	6.	25.
%RSD	1.870	.6257	.4131	1.499
#1	17.83	93.10	1335.	1671.
#2	18.04	93.96	1344.	1708.
#3	17.39	94.22	1346.	1719.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	9344.8	47454.	10478.
Stddev	3.4	191.	31.
%RSD	.03640	.40166	.29496
#1	9347.0	47640.	10443.
#2	9346.5	47464.	10487.
#3	9340.9	47259.	10503.

Sample Name: CCV Acquired: 4/22/2016 17:40:17 Type: QC
Method: BC042116(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	126400.	2491.	1255.	10210.	1026.	129200.
Stddev	639.	11.	2.	4.	5.	923.
%RSD	.5053	.4441	.1311	.0390	.4542	.7145

#1	125700.	2482.	1254.	10210.	1021.	128200.
#2	126800.	2487.	1257.	10220.	1030.	129900.
#3	126700.	2503.	1254.	10210.	1028.	129600.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1273.	2530.	5196.	12510.	103200.	50170.
Stddev	1.	1.	27.	32.	621.	190.
%RSD	.1034	.0450	.5158	.2560	.6013	.3789

#1	1271.	2530.	5165.	12540.	102500.	49950.
#2	1273.	2531.	5216.	12500.	103700.	50300.
#3	1274.	2529.	5205.	12480.	103400.	50260.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	127000.	5236.	128900.	2555.	7637.	986.6
Stddev	761.	24.	274.	3.	8.	3.2
%RSD	.5990	.4658	.2123	.1233	.1048	.3254

#1	126100.	5208.	128600.	2557.	7637.	989.8
#2	127500.	5252.	129200.	2556.	7645.	986.6
#3	127400.	5247.	128800.	2551.	7629.	983.4

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCV Acquired: 4/22/2016 17:40:17 Type: QC
Method: BC042116(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2458.	2561.	2558.	2599.	943.8	2474.
Stddev	7.	17.	10.	8.	1.4	2.
%RSD	.2802	.6518	.4009	.2982	.1506	.1005
#1	2465.	2571.	2547.	2590.	944.6	2475.
#2	2452.	2542.	2566.	2602.	942.2	2475.
#3	2458.	2570.	2562.	2605.	944.7	2471.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	1014.	5068.	10560.	9241.
Stddev	3.	2.	14.	160.
%RSD	.3062	.0361	.1361	1.728
#1	1011.	5066.	10550.	9425.
#2	1014.	5070.	10570.	9153.
#3	1017.	5067.	10570.	9144.

Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	8852.3	45104.	9794.3
Stddev	43.4	583.	226.6
%RSD	.49058	1.2919	2.3137
#1	8902.3	45777.	10056.
#2	8830.0	44759.	9656.4
#3	8824.5	44777.	9670.6

Sample Name: CCB Acquired: 4/22/2016 17:43:43 Type: QC
Method: BC042116(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-51.09	.6644	.3923	.4594	-.1162	-60.89
Stddev	2.43	2.022	.5353	.1107	.0395	4.55
%RSD	4.750	304.3	136.4	24.10	34.02	7.472
#1	-50.28	2.690	.7441	.5724	-.0871	-58.04
#2	-53.82	.6573	.6567	.3511	-.1612	-58.49
#3	-49.17	-1.354	-.2237	.4548	-.1003	-66.13

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.0180	-.0839	.1484	-.6986	-16.47	16.79
Stddev	.1260	.0851	.3620	.1259	4.10	16.71
%RSD	701.5	101.5	243.9	18.03	24.93	99.51
#1	.1402	-.1528	-.2696	-.8338	-11.75	35.49
#2	.0252	.0113	.3597	-.6773	-19.22	11.55
#3	-.1115	-.1102	.3552	-.5847	-18.43	3.329

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-40.96	.1407	18.90	.0136	-.3052	1.200
Stddev	1.61	.1527	5.97	.5535	.8986	1.537
%RSD	3.921	108.5	31.60	4063.	294.4	128.0
#1	-42.71	.1653	25.62	-.5531	-.8432	2.948
#2	-39.56	.2796	14.20	.5529	.7322	.0595
#3	-40.60	-.0228	16.89	.0412	-.8047	.5939

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: CCB Acquired: 4/22/2016 17:43:43 Type: QC
Method: BC042116(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.382	-1.079	-.1050	.1042	1.980	1.391
Stddev	1.352	.936	.3042	.1598	.640	.332
%RSD	56.77	86.76	289.8	153.3	32.35	23.87
#1	1.827	-.0012	.1843	.2703	2.705	1.444
#2	3.923	-1.690	-.4222	-.0484	1.745	1.693
#3	1.396	-1.546	-.0770	.0907	1.490	1.035

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.4999	.1002	1.735	28.67
Stddev	.3589	.1375	.255	9.43
%RSD	71.79	137.1	14.70	32.88
#1	.6838	.1802	1.444	39.26
#2	.0863	.1790	1.839	21.21
#3	.7296	-.0585	1.921	25.53

Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	9330.1	46492.	9838.7
Stddev	11.2	131.	83.5
%RSD	.12052	.28098	.84853
#1	9339.9	46344.	9775.0
#2	9332.6	46541.	9807.8
#3	9317.8	46592.	9933.2

Sample Name: CCVL Acquired: 4/22/2016 17:47:34 Type: QC
Method: BC042116(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F 132.0	11.97	9.155	189.4	1.701	4722.
Stddev	10.6	1.58	.576	.3	.108	3.
%RSD	8.002	13.19	6.292	.1378	6.341	.0551

#1	136.4	11.81	9.169	189.7	1.725	4721.
#2	119.9	10.48	9.724	189.1	1.583	4720.
#3	139.6	13.62	8.572	189.4	1.795	4725.

Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	200.0					
Range	-30.50%					

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.777	47.77	10.20	20.73	156.4	4568.
Stddev	.089	.15	.12	.33	4.3	34.
%RSD	2.359	.3144	1.139	1.595	2.766	.7472

#1	3.694	47.82	10.32	20.40	153.6	4529.
#2	3.871	47.60	10.08	20.75	161.4	4583.
#3	3.767	47.89	10.20	21.06	154.2	4592.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4510.	15.50	4673.	39.47	10.61	18.71
Stddev	20.	.11	7.	.56	.75	.72
%RSD	.4394	.6984	.1468	1.428	7.022	3.865

#1	4493.	15.45	4680.	38.92	9.788	18.13
#2	4504.	15.62	4666.	40.04	11.24	19.52
#3	4532.	15.42	4672.	39.44	10.80	18.47

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCVL Acquired: 4/22/2016 17:47:34 Type: QC
Method: BC042116(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	18.45	19.74	47.40	34.47	47.70	17.67
Stddev	.98	1.87	.42	.39	.23	.25
%RSD	5.309	9.447	.8944	1.123	.4826	1.442
#1	19.31	19.49	46.92	34.03	47.80	17.38
#2	18.66	21.72	47.56	34.76	47.87	17.85
#3	17.38	18.01	47.72	34.62	47.44	17.79

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	45.91	19.08	20.94	F 35.32
Stddev	.35	.04	.21	7.86
%RSD	.7562	.2337	1.001	22.25
#1	46.31	19.03	21.04	36.19
#2	45.67	19.10	21.08	27.07
#3	45.75	19.11	20.70	42.71

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				200.0
Range				-30.50%

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	9470.7	47580.	10109.
Stddev	22.1	136.	71.
%RSD	.23383	.28607	.70389
#1	9445.7	47724.	10044.
#2	9478.6	47562.	10098.
#3	9487.8	47453.	10185.

Sample Name: 460-112564-d-2-a@4 Acquired: 4/22/2016 17:51:21 Type: Unk
Method: BC042116(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	61130.	30.34	-9269	280.0	3.093	6308.
Stddev	75.	1.21	.2268	.7	.033	23.
%RSD	.1221	4.003	24.47	.2678	1.049	.3621
#1	61130.	31.62	-.7193	280.7	3.115	6301.
#2	61050.	29.20	-.8926	279.2	3.056	6333.
#3	61200.	30.21	-1.169	280.1	3.109	6289.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.4506	46.17	107.6	77.12	97220.	5722.
Stddev	.1064	.16	.6	.03	167.	27.
%RSD	23.61	.3552	.5454	.0440	.1721	.4713
#1	-.4166	46.28	108.2	77.08	97060.	5691.
#2	-.3654	46.25	107.0	77.14	97390.	5731.
#3	-.5698	45.98	107.5	77.14	97190.	5743.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	9105.	829.7	114.8	62.69	269.5	1.870
Stddev	52.	2.3	1.9	1.12	2.2	.402
%RSD	.5660	.2829	1.635	1.788	.8312	21.49
#1	9061.	828.7	114.3	61.46	267.5	1.800
#2	9162.	832.4	113.3	63.66	269.2	1.508
#3	9093.	828.1	116.9	62.93	271.9	2.303

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-112564-d-2-a@4 Acquired: 4/22/2016 17:51:21 Type: Unk
Method: BC042116(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.436	1.207	168.4	716.3	4.469	3.537
Stddev	1.199	1.313	1.3	1.6	.121	.081
%RSD	49.21	108.7	.7975	.2239	2.716	2.297
#1	1.053	2.472	166.9	714.6	4.592	3.451
#2	3.175	1.299	168.9	716.8	4.349	3.548
#3	3.080	-.1487	169.4	717.7	4.465	3.613

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	5.003	55.03	2301.	1701.
Stddev	.964	.11	7.	25.
%RSD	19.27	.2036	.2889	1.458
#1	6.086	55.11	2295.	1673.
#2	4.239	54.90	2308.	1711.
#3	4.683	55.09	2299.	1720.

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	9262.8	47020.	10263.
Stddev	30.2	499.	82.
%RSD	.32584	1.0607	.79827
#1	9228.0	46597.	10177.
#2	9278.3	46894.	10273.
#3	9282.1	47570.	10340.

Sample Name: 460-112564-c-3-a@4 Acquired: 4/22/2016 17:55:03 Type: Unk
Method: BC042116(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	41980.	241.5	.0007	417.1	2.692	12470.
Stddev	162.	3.3	.3599	.0	.183	48.
%RSD	.3854	1.374	49110.	.0085	6.791	.3835

#1	41800.	241.0	-.3751	417.1	2.481	12420.
#2	42030.	238.5	.0350	417.1	2.804	12480.
#3	42110.	245.1	.3423	417.1	2.791	12510.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.358	43.49	94.15	183.1	83540.	3478.
Stddev	.185	.31	.60	.9	258.	13.
%RSD	13.61	.7141	.6417	.4764	.3085	.3853

#1	1.467	43.27	93.64	183.9	83280.	3467.
#2	1.462	43.36	94.81	183.3	83540.	3493.
#3	1.144	43.85	93.99	182.2	83790.	3473.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	7437.	1120.	122.8	58.73	1006.	3.140
Stddev	20.	3.	4.6	.62	4.	.808
%RSD	.2710	.2504	3.712	1.059	.3697	25.73

#1	7419.	1117.	125.2	58.30	1005.	3.971
#2	7432.	1119.	117.5	58.44	1003.	3.091
#3	7459.	1123.	125.6	59.44	1010.	2.357

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-112564-c-3-a@4 Acquired: 4/22/2016 17:55:03 Type: Unk
Method: BC042116(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.035	.5522	136.1	1394.	7.439	3.763
Stddev	2.780	.6675	.3	3.	.301	.262
%RSD	91.60	120.9	.2041	.2379	4.043	6.958
#1	1.007	-.2048	135.8	1394.	7.624	3.472
#2	1.894	1.056	136.0	1392.	7.600	3.979
#3	6.204	.8055	136.4	1398.	7.091	3.838

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	15.72	81.06	1476.	1726.
Stddev	1.09	.08	5.	26.
%RSD	6.955	.0986	.3406	1.526
#1	16.76	80.97	1471.	1757.
#2	14.58	81.10	1477.	1713.
#3	15.82	81.12	1481.	1709.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	9257.3	46606.	10023.
Stddev	27.5	236.	124.
%RSD	.29652	.50533	1.2346
#1	9226.6	46567.	10164.
#2	9279.4	46859.	9969.0
#3	9266.0	46393.	9935.1

Sample Name: 460-112564-c-4-a@4 Acquired: 4/22/2016 17:58:43 Type: Unk
Method: BC042116(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	63690.	46.52	-1.588	281.6	3.480	7297.
Stddev	116.	.55	.193	.1	.071	22.
%RSD	.1821	1.179	12.14	.0349	2.047	.3045

#1	63610.	47.08	-1.723	281.5	3.499	7272.
#2	63630.	45.99	-1.367	281.7	3.402	7314.
#3	63820.	46.49	-1.674	281.6	3.541	7306.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.142	32.05	133.0	65.16	110800.	4401.
Stddev	.083	.46	.9	.85	207.	24.
%RSD	7.230	1.436	.7074	1.311	.1865	.5427

#1	-1.237	31.78	131.9	64.78	110500.	4393.
#2	-1.094	31.79	133.2	64.56	110900.	4382.
#3	-1.094	32.58	133.8	66.14	110900.	4428.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	9714.	697.8	116.7	56.95	105.9	3.359
Stddev	19.	.6	2.1	1.13	1.1	.403
%RSD	.1951	.0848	1.782	1.985	1.010	11.99

#1	9700.	697.3	118.8	55.88	106.8	3.171
#2	9736.	698.5	116.7	56.83	104.7	3.084
#3	9707.	697.8	114.6	58.14	106.2	3.821

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-112564-c-4-a@4 Acquired: 4/22/2016 17:58:43 Type: Unk
Method: BC042116(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.516	1.492	181.1	406.4	7.277	4.472
Stddev	1.797	.764	1.2	1.6	.258	.264
%RSD	71.43	51.25	.6764	.4052	3.550	5.910
#1	.5993	1.985	180.0	404.5	7.051	4.173
#2	4.164	.6111	181.0	407.3	7.558	4.674
#3	2.786	1.879	182.4	407.5	7.221	4.569

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	5.209	52.44	2360.	1740.
Stddev	.694	.14	5.	33.
%RSD	13.32	.2596	.2245	1.887
#1	5.751	52.32	2365.	1706.
#2	5.447	52.40	2362.	1741.
#3	4.427	52.59	2354.	1772.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	9376.0	47521.	10376.
Stddev	24.1	107.	104.
%RSD	.25717	.22486	1.0011
#1	9359.6	47471.	10257.
#2	9364.8	47448.	10449.
#3	9403.7	47643.	10421.

Sample Name: pds460-112480-a-1-a Acquired: 4/22/2016 18:02:23 Type: Unk
Method: BC042116(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	74410.	1957.	48.07	2226.	57.49	23910.
Stddev	130.	4.	.24	1.	.43	77.
%RSD	.1748	.1865	.4916	.0536	.7414	.3217
#1	74260.	1956.	48.34	2226.	57.70	23880.
#2	74510.	1961.	47.97	2228.	57.00	24000.
#3	74460.	1954.	47.89	2225.	57.77	23850.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	48.58	546.1	347.5	304.0	135700.	22650.
Stddev	.07	.6	3.5	2.5	383.	68.
%RSD	.1393	.1091	1.013	.8385	.2820	.3008
#1	48.56	546.8	348.1	305.7	135700.	22680.
#2	48.65	546.0	350.7	305.2	136100.	22570.
#3	48.52	545.6	343.7	301.0	135300.	22700.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	31600.	2145.	20320.	577.6	553.0	482.5
Stddev	100.	3.	4.	1.0	2.7	2.0
%RSD	.3168	.1598	.0192	.1690	.4836	.4063
#1	31550.	2144.	20330.	578.8	556.0	484.0
#2	31720.	2149.	20320.	577.1	551.1	480.3
#3	31540.	2142.	20320.	577.0	551.8	483.2

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: pds460-112480-a-1-a Acquired: 4/22/2016 18:02:23 Type: Unk
Method: BC042116(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1906.	2081.	712.6	677.5	463.1	485.5
Stddev	4.	12.	2.1	1.4	1.4	1.5
%RSD	.2055	.5636	.2978	.2004	.2997	.3178
#1	1910.	2095.	714.0	678.1	461.6	486.8
#2	1903.	2075.	713.6	678.5	463.3	485.9
#3	1906.	2074.	710.2	676.0	464.3	483.8

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	515.4	528.6	3977.	1915.
Stddev	.9	.1	4.	20.
%RSD	.1840	.0201	.0931	1.039
#1	516.4	528.7	3977.	1894.
#2	514.5	528.7	3973.	1917.
#3	515.2	528.5	3981.	1933.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	9248.5	47152.	10203.
Stddev	51.5	421.	119.
%RSD	.55672	.89391	1.1667
#1	9200.6	46797.	10068.
#2	9242.0	47040.	10248.
#3	9303.0	47618.	10293.

Sample Name: 460-112480-a-1-c.ms Acquired: 4/22/2016 18:05:52 Type: Unk
Method: BC042116(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	79530.	998.5	23.09	1232.	32.49	13950.
Stddev	316.	5.4	.47	6.	.28	73.
%RSD	.3975	.5384	2.020	.5239	.8716	.5216
#1	79270.	995.5	22.58	1226.	32.44	13870.
#2	79430.	995.2	23.17	1232.	32.23	13970.
#3	79880.	1005.	23.50	1239.	32.79	14010.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	23.65	294.2	241.7	179.8	137500.	14180.
Stddev	.31	1.9	2.7	1.3	596.	56.
%RSD	1.324	.6423	1.127	.7356	.4333	.3932
#1	23.80	294.4	239.1	178.9	136800.	14120.
#2	23.29	292.2	241.6	179.2	137500.	14220.
#3	23.86	296.0	244.5	181.3	138000.	14210.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	22710.	1834.	10320.	334.3	306.1	136.5
Stddev	110.	10.	41.	2.2	3.0	4.1
%RSD	.4842	.5346	.4021	.6559	.9917	2.988
#1	22590.	1824.	10270.	334.6	303.5	134.5
#2	22720.	1834.	10340.	332.0	305.5	133.8
#3	22810.	1844.	10340.	336.3	309.4	141.2

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-112480-a-1-c.ms Acquired: 4/22/2016 18:05:52 Type: Unk
Method: BC042116(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	956.3	1067.	476.9	433.4	228.8	243.5
Stddev	8.2	2.	3.9	5.2	.7	1.0
%RSD	.8550	.2056	.8209	1.188	.3177	.4154
#1	947.4	1068.	472.5	429.1	228.0	242.6
#2	963.4	1064.	478.2	439.1	228.9	243.2
#3	958.1	1068.	479.9	432.1	229.5	244.6

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	258.5	283.5	3725.	2550.
Stddev	1.4	1.1	22.	47.
%RSD	.5469	.3889	.5796	1.843
#1	258.0	282.9	3703.	2496.
#2	257.3	282.8	3726.	2574.
#3	260.0	284.7	3746.	2580.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	9281.8	47287.	10303.
Stddev	38.8	227.	115.
%RSD	.41849	.48081	1.1182
#1	9242.3	47029.	10186.
#2	9283.2	47375.	10308.
#3	9319.9	47458.	10416.

Sample Name: 460-112480-a-1-b du Acquired: 4/22/2016 18:09:26 Type: Unk
Method: BC042116(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	70890.	29.65	-1.594	194.2	5.423	3791.
Stddev	805.	1.42	.291	2.0	.039	45.
%RSD	1.135	4.781	18.27	1.053	.7145	1.200

#1	69980.	28.07	-1.259	191.9	5.386	3739.
#2	71230.	30.09	-1.781	194.7	5.421	3824.
#3	71480.	30.80	-1.744	195.9	5.463	3810.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.081	43.87	134.1	55.49	134000.	4086.
Stddev	.059	.51	1.3	.51	1665.	70.
%RSD	2.854	1.171	.9739	.9261	1.243	1.709

#1	-2.013	43.28	133.0	56.02	132000.	4010.
#2	-2.105	44.26	135.5	55.47	134800.	4103.
#3	-2.124	44.05	133.7	54.99	135000.	4146.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	12090.	1877.	118.0	68.18	45.42	2.491
Stddev	187.	23.	7.5	1.05	1.61	3.563
%RSD	1.543	1.239	6.396	1.539	3.542	143.0

#1	11880.	1851.	117.2	67.20	45.50	.5576
#2	12200.	1887.	110.9	68.04	43.77	.3138
#3	12200.	1894.	125.9	69.29	46.99	6.603

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-112480-a-1-b du Acquired: 4/22/2016 18:09:26 Type: Unk
Method: BC042116(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.253	-2820	207.1	170.8	2.932	3.314
Stddev	1.584	1.019	1.6	1.2	.544	.283
%RSD	126.4	361.5	.7575	.6850	18.57	8.533
#1	-2.685	-1.360	205.4	169.5	3.374	3.124
#2	-1.522	.6655	207.5	171.0	2.324	3.639
#3	.4487	-.1510	208.5	171.8	3.098	3.179

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	11.17	25.05	3234.	1736.
Stddev	.55	.16	31.	8.
%RSD	4.959	.6220	.9523	.4876
#1	10.83	24.89	3199.	1744.
#2	11.81	25.06	3243.	1738.
#3	10.87	25.20	3259.	1727.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	9266.7	47032.	10074.
Stddev	35.0	413.	122.
%RSD	.37788	.87803	1.2081
#1	9227.9	47273.	10201.
#2	9276.1	46555.	9958.6
#3	9296.0	47268.	10063.

Sample Name: 460-112480-a-1-a@4 Acquired: 4/22/2016 18:13:08 Type: Unk
Method: BC042116(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	72970.	30.39	-1.650	201.1	5.587	3895.
Stddev	289.	.90	.484	.1	.126	20.
%RSD	.3962	2.971	29.33	.0383	2.247	.5256
#1	72640.	30.56	-1.210	201.0	5.544	3873.
#2	73170.	31.20	-2.168	201.1	5.488	3899.
#3	73100.	29.41	-1.573	201.2	5.728	3913.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.193	42.50	137.9	54.52	137000.	4397.
Stddev	.150	.37	.5	.44	617.	60.
%RSD	6.825	.8610	.3589	.8130	.4506	1.364
#1	-2.026	42.57	137.8	54.48	136200.	4361.
#2	-2.237	42.10	137.5	54.98	137300.	4466.
#3	-2.315	42.83	138.5	54.09	137300.	4364.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	12480.	1653.	118.1	66.63	47.48	2.041
Stddev	61.	5.	8.3	.19	1.28	3.107
%RSD	.4854	.3190	7.052	.2907	2.701	152.2
#1	12410.	1647.	125.8	66.85	46.95	-1.434
#2	12520.	1656.	119.3	66.52	46.54	4.551
#3	12510.	1656.	109.3	66.51	48.94	3.006

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-112480-a-1-a@4 Acquired: 4/22/2016 18:13:08 Type: Unk
Method: BC042116(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.171	-2566	213.3	166.9	2.221	3.333
Stddev	3.019	3.087	1.5	.5	.448	.042
%RSD	95.20	1203.	.6852	.2732	20.17	1.249
#1	1.812	-1.272	211.9	166.6	2.520	3.318
#2	1.070	3.210	213.3	166.7	1.706	3.380
#3	6.630	-2.708	214.9	167.4	2.438	3.300

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	11.92	25.53	3482.	1855.
Stddev	.26	.10	14.	29.
%RSD	2.147	.3882	.4070	1.590
#1	11.79	25.45	3467.	1888.
#2	12.21	25.64	3485.	1832.
#3	11.74	25.48	3495.	1845.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	9228.1	46691.	10005.
Stddev	18.7	186.	108.
%RSD	.20253	.39786	1.0785
#1	9210.8	46895.	10113.
#2	9225.6	46532.	9897.6
#3	9247.9	46646.	10004.

Sample Name: sd 460-112480-a-1-a Acquired: 4/22/2016 18:16:48 Type: Unk
Method: BC042116(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	14810.	5.012	-.2095	40.92	1.049	730.8
Stddev	31.	2.107	.3696	.21	.232	6.8
%RSD	.2081	42.03	176.5	.5034	22.06	.9250

#1	14800.	2.980	.2025	40.69	.7843	727.1
#2	14840.	4.870	-.3189	41.08	1.213	738.6
#3	14780.	7.187	-.5120	40.99	1.149	726.6

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.7109	8.231	28.16	10.30	27940.	905.7
Stddev	.0646	.202	.76	.36	64.	39.3
%RSD	9.080	2.450	2.711	3.520	.2288	4.344

#1	-.7850	8.459	28.23	10.19	28020.	886.9
#2	-.6670	8.074	28.88	10.01	27910.	950.9
#3	-.6808	8.161	27.36	10.71	27900.	879.3

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2580.	338.3	20.24	13.35	9.121	-.1727
Stddev	7.	.9	2.52	.81	.716	1.355
%RSD	.2778	.2709	12.43	6.031	7.848	784.3

#1	2572.	339.2	22.52	13.56	8.646	-.4263
#2	2583.	338.3	20.68	12.46	9.944	1.291
#3	2585.	337.4	17.54	14.03	8.773	-1.383

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: sd 460-112480-a-1-a Acquired: 4/22/2016 18:16:48 Type: Unk
Method: BC042116(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.0332	-2.282	42.51	34.32	.5701	.4370
Stddev	2.055	.889	.02	.36	.3108	.2116
%RSD	6196.	38.94	.0570	1.043	54.51	48.42
#1	1.852	-3.134	42.53	34.60	.2262	.3499
#2	.4443	-2.352	42.49	33.92	.6533	.6783
#3	-2.197	-1.361	42.49	34.44	.8307	.2828

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	2.580	5.216	705.1	387.0
Stddev	.603	.055	3.2	5.0
%RSD	23.35	1.059	.4480	1.302
#1	1.983	5.233	708.3	381.2
#2	2.570	5.155	705.1	389.2
#3	3.188	5.261	702.0	390.5

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	9487.4	47965.	10274.
Stddev	94.3	195.	72.
%RSD	.99425	.40561	.70145
#1	9394.7	47756.	10191.
#2	9484.1	48142.	10310.
#3	9583.3	47996.	10321.

Sample Name: 460-112480-a-2-a@4 Acquired: 4/22/2016 18:20:35 Type: Unk
Method: BC042116(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	72570.	21.56	-1.454	310.7	5.717	5384.
Stddev	96.	2.36	.377	.7	.097	14.
%RSD	.1319	10.92	25.92	.2365	1.698	.2532
#1	72500.	21.13	-1.819	310.0	5.828	5393.
#2	72540.	19.46	-1.066	311.5	5.650	5391.
#3	72680.	24.11	-1.476	310.6	5.672	5368.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.896	47.54	125.6	66.80	127300.	8092.
Stddev	.011	.32	.4	.50	226.	31.
%RSD	.5965	.6710	.3574	.7528	.1773	.3841
#1	-1.906	47.52	125.1	67.01	127300.	8066.
#2	-1.884	47.87	126.0	67.17	127500.	8126.
#3	-1.898	47.23	125.7	66.23	127000.	8084.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	14850.	2592.	271.8	79.37	64.44	2.606
Stddev	83.	4.	7.0	.66	1.67	1.394
%RSD	.5623	.1356	2.588	.8268	2.590	53.48
#1	14880.	2590.	269.2	78.62	66.37	1.946
#2	14910.	2596.	266.5	79.65	63.48	1.665
#3	14750.	2591.	279.8	79.84	63.48	4.208

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-112480-a-2-a@4 Acquired: 4/22/2016 18:20:35 Type: Unk
Method: BC042116(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.5285	.6532	202.1	178.9	4.232	4.089
Stddev	1.631	1.266	1.4	.4	.316	.472
%RSD	308.7	193.9	.6811	.2245	7.465	11.55
#1	.7682	1.945	202.9	179.4	3.870	4.332
#2	2.027	.6018	202.8	178.6	4.450	4.391
#3	-1.209	-.5867	200.5	178.8	4.377	3.544

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	11.71	31.79	3450.	1804.
Stddev	.28	.12	15.	34.
%RSD	2.347	.3854	.4387	1.877
#1	11.44	31.69	3435.	1767.
#2	11.99	31.74	3450.	1812.
#3	11.71	31.92	3465.	1833.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	9301.3	47054.	10139.
Stddev	46.0	415.	97.
%RSD	.49480	.88110	.95950
#1	9250.5	46604.	10035.
#2	9313.2	47138.	10155.
#3	9340.2	47420.	10227.

Sample Name: 460-112520-d-21-a@4 Acquired: 4/22/2016 18:24:16 Type: Unk
Method: BC042116(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	20500.	20.52	-.0681	94.16	.6696	2532.
Stddev	108.	.93	.2859	.21	.0721	2.
%RSD	.5274	4.555	419.5	.2250	10.76	.0914
#1	20380.	19.87	-.0920	94.32	.6690	2529.
#2	20580.	21.59	-.3414	94.23	.7419	2534.
#3	20530.	20.10	.2289	93.92	.5978	2532.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.2510	13.91	42.24	83.01	36350.	1199.
Stddev	.0803	.15	.40	.53	88.	23.
%RSD	31.99	1.090	.9424	.6370	.2410	1.931
#1	.1816	13.75	41.80	82.96	36340.	1217.
#2	.2326	13.92	42.35	83.56	36450.	1173.
#3	.3390	14.05	42.58	82.51	36270.	1207.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1162.	309.4	188.9	89.11	167.6	4.321
Stddev	5.	.4	13.6	.55	.7	3.456
%RSD	.4116	.1232	7.196	.6153	.4294	79.98
#1	1157.	309.0	202.6	88.58	167.6	2.679
#2	1167.	309.8	188.6	89.67	166.9	1.992
#3	1162.	309.4	175.4	89.07	168.4	8.293

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-112520-d-21-a@4 Acquired: 4/22/2016 18:24:16 Type: Unk
Method: BC042116(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.561	-2.381	46.36	181.5	6.131	11.97
Stddev	1.127	.877	.41	.1	.792	.17
%RSD	72.16	36.85	.8891	.0490	12.91	1.412
#1	1.767	-1.526	46.00	181.4	6.109	11.77
#2	.3459	-3.279	46.26	181.5	5.351	12.04
#3	2.570	-2.338	46.81	181.6	6.934	12.09

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	5.726	22.99	319.8	1468.
Stddev	.151	.09	1.9	30.
%RSD	2.635	.3903	.5797	2.039
#1	5.896	23.09	317.7	1503.
#2	5.609	22.91	320.5	1451.
#3	5.672	22.98	321.2	1450.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	9299.4	47197.	10216.
Stddev	47.7	207.	249.
%RSD	.51307	.43856	2.4405
#1	9245.0	47007.	10503.
#2	9319.3	47166.	10054.
#3	9334.0	47417.	10091.

Sample Name: CCV Acquired: 4/22/2016 18:28:01 Type: QC
Method: BC042116(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	126500.	2492.	1253.	10230.	1029.	128900.
Stddev	289.	7.	3.	4.	2.	133.
%RSD	.2283	.2653	.2155	.0370	.2384	.1028

#1	126300.	2490.	1252.	10230.	1027.	128800.
#2	126400.	2487.	1256.	10230.	1030.	129100.
#3	126800.	2500.	1251.	10230.	1031.	128900.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1273.	2533.	5178.	12520.	103100.	50240.
Stddev	1.	1.	3.	7.	96.	209.
%RSD	.0782	.0572	.0577	.0595	.0934	.4166

#1	1272.	2532.	5176.	12520.	103000.	50030.
#2	1274.	2532.	5181.	12520.	103200.	50250.
#3	1273.	2535.	5176.	12510.	103000.	50450.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	126700.	5234.	129400.	2553.	7652.	988.0
Stddev	67.	2.	132.	6.	4.	5.1
%RSD	.0530	.0436	.1023	.2200	.0568	.5194

#1	126700.	5232.	129500.	2555.	7650.	982.6
#2	126700.	5236.	129300.	2557.	7657.	988.3
#3	126800.	5233.	129500.	2547.	7648.	992.9

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCV Acquired: 4/22/2016 18:28:01 Type: QC
Method: BC042116(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2458.	2574.	2554.	2594.	944.9	2479.
Stddev	4.	5.	3.	3.	4.5	2.
%RSD	.1648	.2108	.1120	.1078	.4771	.0997

#1	2455.	2570.	2555.	2594.	940.6	2476.
#2	2458.	2571.	2556.	2596.	944.5	2481.
#3	2463.	2580.	2551.	2591.	949.6	2481.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	1014.	5073.	10640.	9193.
Stddev	2.	19.	26.	63.
%RSD	.1832	.3777	.2416	.6866

#1	1012.	5055.	10670.	9121.
#2	1015.	5072.	10640.	9220.
#3	1016.	5093.	10620.	9239.

Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	8896.8	45343.	9787.3
Stddev	13.2	26.	68.2
%RSD	.14791	.05739	.69692

#1	8898.8	45367.	9716.7
#2	8882.8	45315.	9852.9
#3	8908.9	45346.	9792.4

Sample Name: CCB Acquired: 4/22/2016 18:31:27 Type: QC
Method: BC042116(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-51.13	1.578	.5704	.5737	.0034	-62.00
Stddev	6.18	2.564	.2389	.4150	.1788	1.98
%RSD	12.09	162.5	41.89	72.34	5281.	3.192

#1	-46.10	.1857	.5266	1.015	.1203	-64.24
#2	-49.26	4.537	.8281	.1918	.0922	-60.50
#3	-58.03	.0115	.3564	.5140	-.2024	-61.25

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.0123	.0404	.4665	-.2077	-7.693	30.76
Stddev	.0577	.1759	.3393	.3991	11.05	21.30
%RSD	469.4	435.8	72.75	192.2	143.6	69.24

#1	-.0017	.0060	.8453	-.2247	5.050	44.56
#2	-.0372	-.1158	.3634	.1997	-13.56	6.230
#3	.0758	.2309	.1906	-.5980	-14.57	41.50

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-36.15	.2150	13.42	-.1285	.3751	.1299
Stddev	2.08	.0736	12.63	.7049	.2916	1.191
%RSD	5.743	34.23	94.15	548.6	77.73	917.2

#1	-34.67	.2727	25.92	-.7658	.1578	.3664
#2	-35.25	.2402	13.67	.6287	.7065	-1.162
#3	-38.52	.1321	.6624	-.2484	.2611	1.185

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: CCB Acquired: 4/22/2016 18:31:27 Type: QC
Method: BC042116(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.322	.0171	-.1177	.0869	1.230	1.545
Stddev	1.258	.9914	.3285	.0848	.505	.092
%RSD	54.18	5812.	279.1	97.60	41.08	5.976
#1	3.057	-.2427	.2407	.1560	1.622	1.449
#2	3.039	1.112	-.1895	-.0077	1.407	1.551
#3	.8693	-.8186	-.4043	.1124	.6598	1.633

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.7648	.2105	1.693	12.11
Stddev	.2586	.0575	.152	8.52
%RSD	33.81	27.33	8.958	70.36
#1	.8524	.2587	1.563	20.71
#2	.4738	.2259	1.657	3.674
#3	.9682	.1468	1.860	11.94

Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	9393.8	47257.	9981.0
Stddev	70.4	227.	135.7
%RSD	.74959	.48010	1.3597
#1	9315.5	47008.	9841.5
#2	9413.7	47313.	9988.9
#3	9452.0	47451.	10113.

Sample Name: CCVL Acquired: 4/22/2016 18:35:19 Type: QC
Method: BC042116(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	145.5	15.86	9.075	190.2	1.758	4721.
Stddev	9.5	.53	.652	.4	.059	41.
%RSD	6.560	3.312	7.187	.2293	3.386	.8622

#1	139.2	15.66	9.158	190.3	1.816	4679.
#2	140.8	16.46	8.385	189.7	1.761	4761.
#3	156.5	15.47	9.681	190.6	1.697	4723.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.778	48.03	10.14	21.53	159.3	4647.
Stddev	.035	.15	.25	.31	7.7	64.
%RSD	.9236	.3084	2.453	1.434	4.864	1.383

#1	3.818	47.86	10.05	21.32	150.4	4573.
#2	3.756	48.14	9.949	21.38	162.9	4683.
#3	3.760	48.08	10.42	21.88	164.6	4686.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4539.	15.49	4701.	39.67	11.08	18.38
Stddev	24.	.17	10.	.31	.43	.24
%RSD	.5371	1.089	.2095	.7695	3.910	1.287

#1	4511.	15.30	4691.	39.53	10.58	18.55
#2	4556.	15.63	4711.	40.02	11.34	18.49
#3	4549.	15.54	4700.	39.46	11.32	18.11

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCVL Acquired: 4/22/2016 18:35:19 Type: QC
Method: BC042116(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	18.26	18.18	47.25	34.75	47.63	17.96
Stddev	1.41	2.46	.11	.19	.21	.22
%RSD	7.709	13.51	.2296	.5503	.4313	1.220
#1	19.04	16.48	47.13	34.86	47.77	17.93
#2	19.10	17.07	47.33	34.86	47.40	17.75
#3	16.63	21.00	47.29	34.53	47.73	18.19

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	46.25	19.28	21.25	F 23.40
Stddev	.61	.27	.31	7.40
%RSD	1.326	1.415	1.436	31.63
#1	46.29	19.10	20.93	23.87
#2	45.62	19.16	21.27	15.78
#3	46.84	19.60	21.54	30.56

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				200.0
Range				-30.50%

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	9429.0	47534.	10104.
Stddev	18.3	216.	89.
%RSD	.19428	.45535	.87648
#1	9447.6	47673.	10143.
#2	9411.0	47285.	10003.
#3	9428.5	47644.	10167.

Sample Name: 460-112376-f-5-c@4 Acquired: 4/22/2016 18:39:06 Type: Unk
Method: BC042116(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	28550.	12.10	-1.579	148.3	2.481	37660.
Stddev	113.	3.00	.408	.5	.069	122.
%RSD	.3951	24.77	25.86	.3243	2.790	.3249
#1	28430.	10.34	-1.180	148.1	2.490	37560.
#2	28560.	10.40	-1.562	148.0	2.407	37620.
#3	28660.	15.56	-1.996	148.9	2.545	37800.

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.233	28.78	74.66	53.97	98060.	4901.
Stddev	.074	.19	.35	.68	292.	42.
%RSD	6.008	.6682	.4728	1.256	.2974	.8478
#1	-1.282	28.61	74.82	54.14	97800.	4865.
#2	-1.148	28.99	74.26	53.23	98020.	4891.
#3	-1.270	28.74	74.91	54.55	98380.	4946.

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	25240.	1468.	1897.	51.75	14.53	.6912
Stddev	92.	3.	13.	.52	1.12	2.884
%RSD	.3650	.2258	.6889	1.014	7.679	417.3
#1	25190.	1464.	1882.	52.14	13.78	3.840
#2	25190.	1468.	1905.	51.15	15.81	-1.823
#3	25350.	1470.	1905.	51.96	14.01	.0571

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Sample Name: 460-112376-f-5-c@4 Acquired: 4/22/2016 18:39:06 Type: Unk
Method: BC042116(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	- .7983	- .7046	138.5	133.6	3.210	5.009
Stddev	1.378	1.427	.7	.5	.501	.191
%RSD	172.6	202.6	.4954	.3525	15.62	3.817
#1	.3574	-1.669	138.3	133.2	3.760	4.896
#2	-2.323	.9353	138.0	133.3	2.778	4.901
#3	-4.287	-1.381	139.3	134.1	3.092	5.230

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	3.326	44.98	2597.	1133.
Stddev	.285	.33	9.	21.
%RSD	8.565	.7397	.3634	1.863
#1	3.475	44.67	2587.	1114.
#2	3.506	44.94	2598.	1129.
#3	2.998	45.33	2605.	1155.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	9457.1	48141.	10351.
Stddev	69.7	434.	142.
%RSD	.73753	.90214	1.3694
#1	9378.1	47643.	10189.
#2	9510.1	48438.	10454.
#3	9483.0	48343.	10410.

Sample Name: CCV Acquired: 4/22/2016 18:42:47 Type: QC
Method: BC042116(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	126400.	2499.	1250.	10230.	1028.	128500.
Stddev	344.	15.	10.	29.	1.	638.
%RSD	.2722	.5910	.7619	.2860	.1169	.4961

#1	126000.	2488.	1239.	10200.	1028.	127800.
#2	126600.	2516.	1256.	10260.	1026.	128900.
#3	126600.	2494.	1256.	10230.	1029.	128800.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1273.	2536.	5167.	12520.	102800.	50220.
Stddev	4.	8.	29.	49.	471.	97.
%RSD	.3397	.3247	.5543	.3878	.4586	.1940

#1	1268.	2527.	5134.	12470.	102200.	50110.
#2	1276.	2543.	5180.	12540.	103000.	50250.
#3	1274.	2538.	5187.	12570.	103100.	50300.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	126300.	5224.	129400.	2560.	7649.	988.6
Stddev	569.	20.	183.	10.	27.	7.1
%RSD	.4507	.3805	.1415	.4014	.3581	.7150

#1	125700.	5201.	129500.	2548.	7619.	982.7
#2	126600.	5237.	129600.	2568.	7672.	996.4
#3	126700.	5234.	129200.	2563.	7655.	986.7

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCV Acquired: 4/22/2016 18:42:47 Type: QC
Method: BC042116(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2465.	2574.	2552.	2585.	948.8	2481.
Stddev	12.	4.	12.	12.	3.0	6.
%RSD	.5032	.1596	.4557	.4532	.3123	.2283
#1	2452.	2569.	2539.	2573.	945.4	2474.
#2	2477.	2577.	2559.	2596.	950.8	2482.
#3	2467.	2575.	2559.	2586.	950.2	2485.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	1013.	5083.	10650.	9254.
Stddev	3.	13.	35.	166.
%RSD	.2819	.2604	.3308	1.790
#1	1010.	5068.	10620.	9063.
#2	1015.	5089.	10690.	9359.
#3	1013.	5093.	10650.	9339.

Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	8923.4	45580.	9896.6
Stddev	42.9	159.	64.6
%RSD	.48052	.34900	.65257
#1	8972.7	45763.	9829.3
#2	8895.3	45490.	9958.1
#3	8902.1	45485.	9902.2

Sample Name: CCB Acquired: 4/22/2016 18:46:13 Type: QC
Method: BC042116(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-45.92	.1166	-.1912	.4179	-.1066	-63.70
Stddev	3.22	.7035	.0743	.2089	.0812	5.73
%RSD	7.006	603.6	38.86	49.98	76.24	8.995
#1	-43.37	-.4520	-.1826	.6467	-.1986	-60.67
#2	-49.53	.9034	-.2695	.2375	-.0760	-60.11
#3	-44.85	-.1017	-.1216	.3695	-.0450	-70.30

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.1006	-.0506	.1724	-.0126	-14.34	35.46
Stddev	.1794	.1933	.1948	.4318	2.41	35.43
%RSD	178.4	382.3	113.0	3421.	16.79	99.91
#1	-.0875	-.1492	.0515	.1445	-16.70	27.12
#2	.0719	.1722	.3971	.3186	-11.89	74.31
#3	-.2862	-.1747	.0686	-.5009	-14.44	4.946

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-40.58	.1879	16.48	.0647	.7823	2.908
Stddev	3.45	.0399	6.36	.2809	1.100	.201
%RSD	8.508	21.23	38.60	434.0	140.6	6.906
#1	-43.75	.2339	23.43	-.2383	.4996	3.000
#2	-36.90	.1627	15.06	.3164	1.996	3.047
#3	-41.09	.1672	10.95	.1160	-.1485	2.678

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: CCB Acquired: 4/22/2016 18:46:13 Type: QC
Method: BC042116(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.736	-2.422	-.3633	.0940	1.512	1.648
Stddev	1.962	.367	.2647	.1449	.518	.128
%RSD	71.74	15.16	72.86	154.1	34.28	7.791
#1	.5627	-2.093	-.6138	-.0287	2.023	1.532
#2	4.379	-2.818	-.3897	.0569	.9863	1.625
#3	3.265	-2.354	-.0864	.2539	1.528	1.786

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.0658	.1282	1.582	22.70
Stddev	.4846	.2115	.061	6.64
%RSD	736.3	164.9	3.871	29.25
#1	.5690	.3688	1.595	15.07
#2	-.3977	-.0282	1.516	27.16
#3	.0261	.0440	1.637	25.86

Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	9405.3	47536.	10152.
Stddev	32.4	306.	149.
%RSD	.34424	.64286	1.4715
#1	9441.8	47853.	10270.
#2	9393.9	47513.	10203.
#3	9380.2	47244.	9984.1

Sample Name: CCVL Acquired: 4/22/2016 18:50:05 Type: QC
Method: BC042116(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F 134.6	14.49	9.103	189.9	1.874	4708.
Stddev	13.0	1.59	.310	.7	.148	34.
%RSD	9.642	10.95	3.408	.3632	7.919	.7180
#1	148.0	14.54	9.238	190.1	2.040	4673.
#2	133.8	16.06	9.322	190.4	1.830	4741.
#3	122.0	12.89	8.748	189.1	1.753	4710.

Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	200.0					
Range	-30.50%					

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.893	47.85	9.898	21.20	155.4	4563.
Stddev	.116	.19	.841	.64	8.0	66.
%RSD	2.982	.3982	8.491	3.020	5.142	1.441
#1	4.027	47.78	8.937	20.47	148.2	4488.
#2	3.830	47.71	10.49	21.66	164.0	4589.
#3	3.822	48.07	10.27	21.46	153.9	4611.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4516.	15.43	4689.	39.44	10.56	19.05
Stddev	55.	.07	43.	.33	.65	1.92
%RSD	1.225	.4556	.9093	.8312	6.169	10.06
#1	4453.	15.35	4640.	39.13	11.01	19.02
#2	4558.	15.48	4713.	39.78	9.815	20.97
#3	4536.	15.45	4715.	39.41	10.86	17.14

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCVL Acquired: 4/22/2016 18:50:05 Type: QC
Method: BC042116(v5) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	17.74	18.02	47.30	34.65	47.92	17.94
Stddev	1.24	.55	.50	.31	.46	.24
%RSD	7.013	3.055	1.066	.9000	.9695	1.355

#1	17.72	17.79	46.73	34.38	47.63	17.66
#2	18.99	17.61	47.46	34.58	48.46	18.09
#3	16.51	18.64	47.70	34.99	47.68	18.07

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

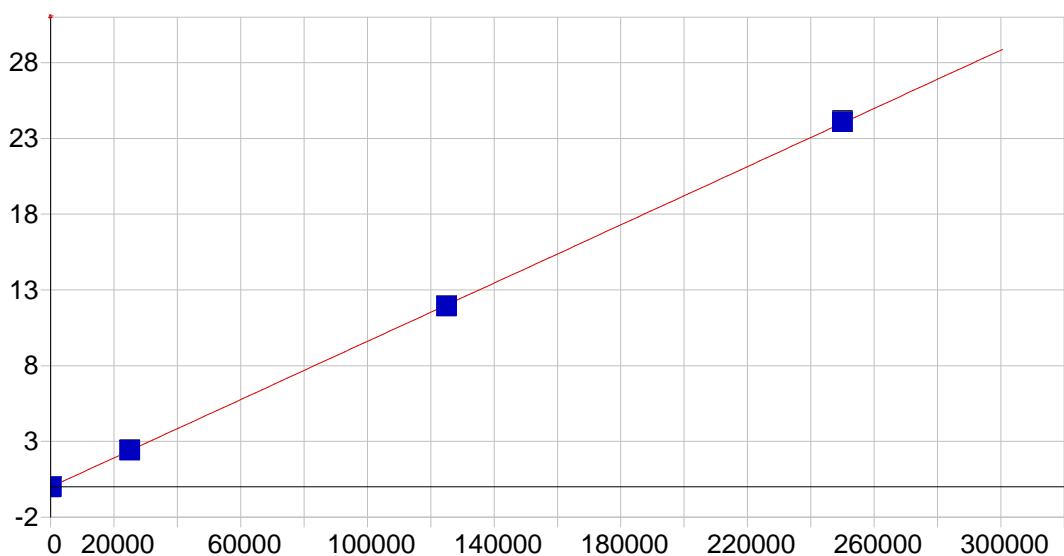
Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	46.18	19.36	21.12	F 36.96
Stddev	.67	.24	.55	19.42
%RSD	1.442	1.243	2.587	52.54

#1	45.50	19.09	20.54	49.05
#2	46.83	19.44	21.18	14.56
#3	46.20	19.55	21.63	47.26

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				200.0
Range				-30.50%

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	9477.1	47721.	10163.
Stddev	22.6	219.	145.
%RSD	.23835	.45815	1.4281

#1	9501.5	47890.	10330.
#2	9456.9	47474.	10078.
#3	9472.8	47798.	10080.

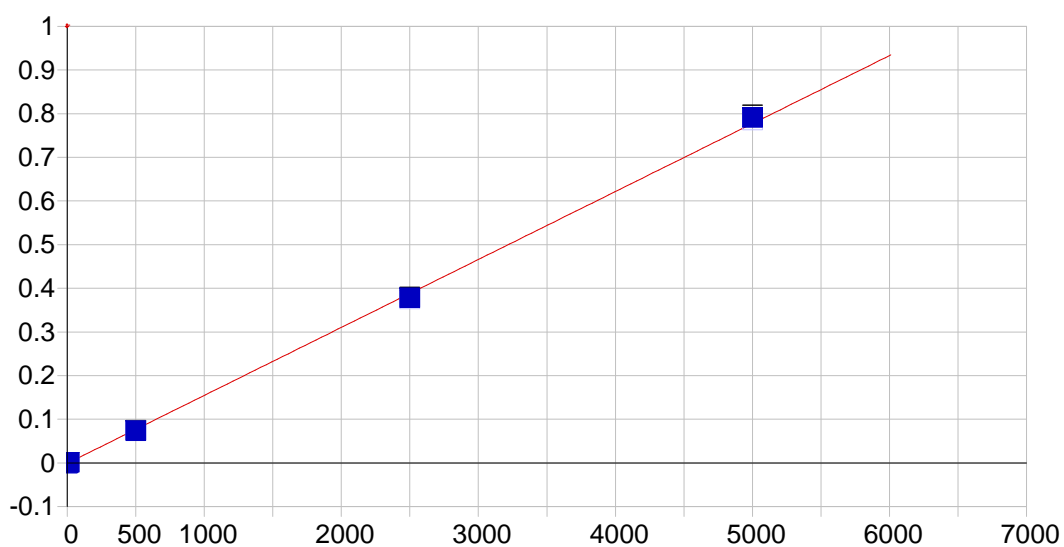


AI 396.152 {85}

Date of Fit: 4/23/2016 11:32:09 Type of Fit: Linear Weighting: 1/Conc

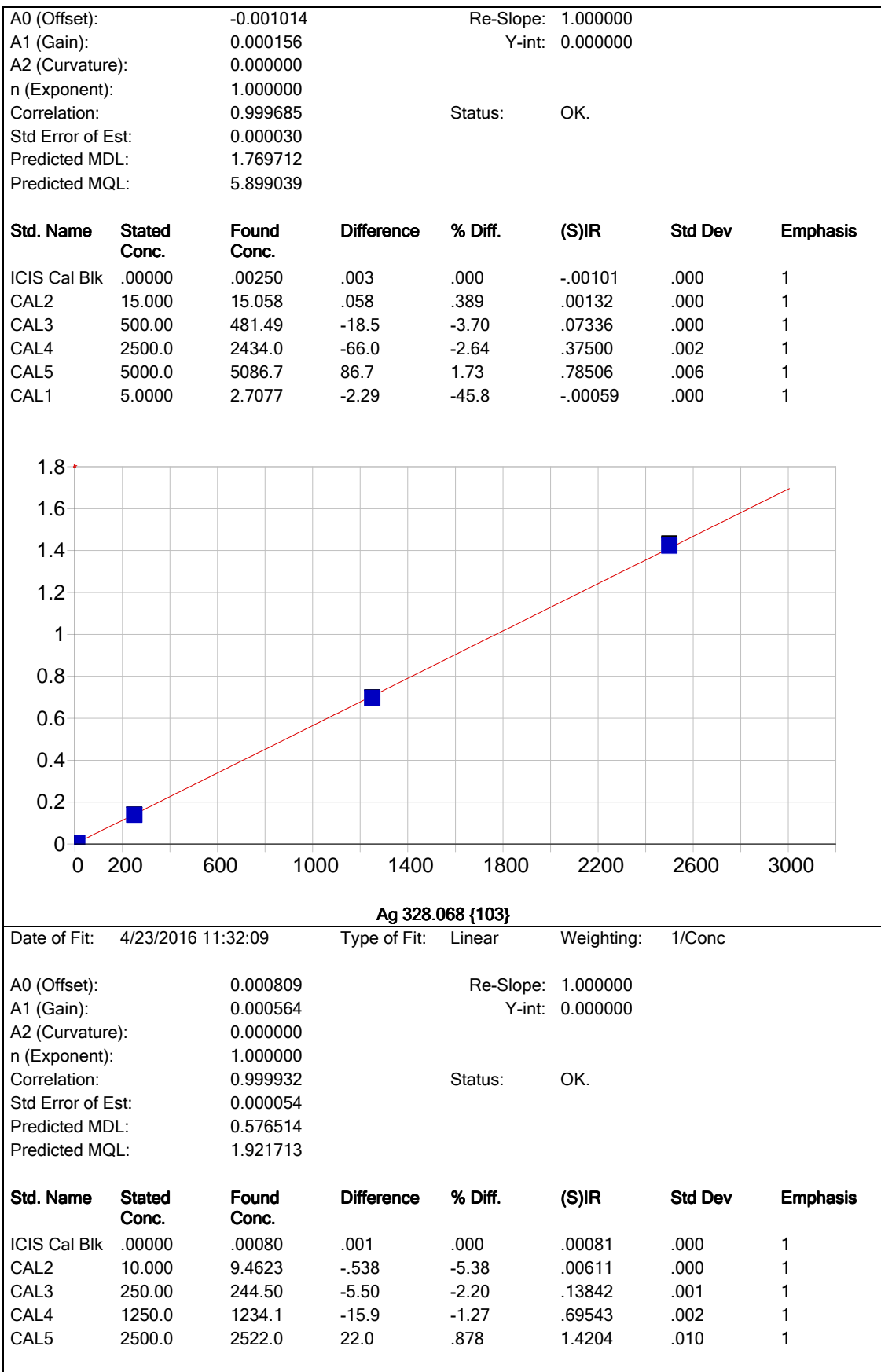
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 A1 (Gain): 0.000096 Y-int: 0.000000
 A2 (Curvature): 0.000000
 n (Exponent): 1.000000
 Correlation: 0.999990 Status: OK.
 Std Error of Est: 0.000158
 Predicted MDL: 11.312408
 Predicted MQL: 37.708026

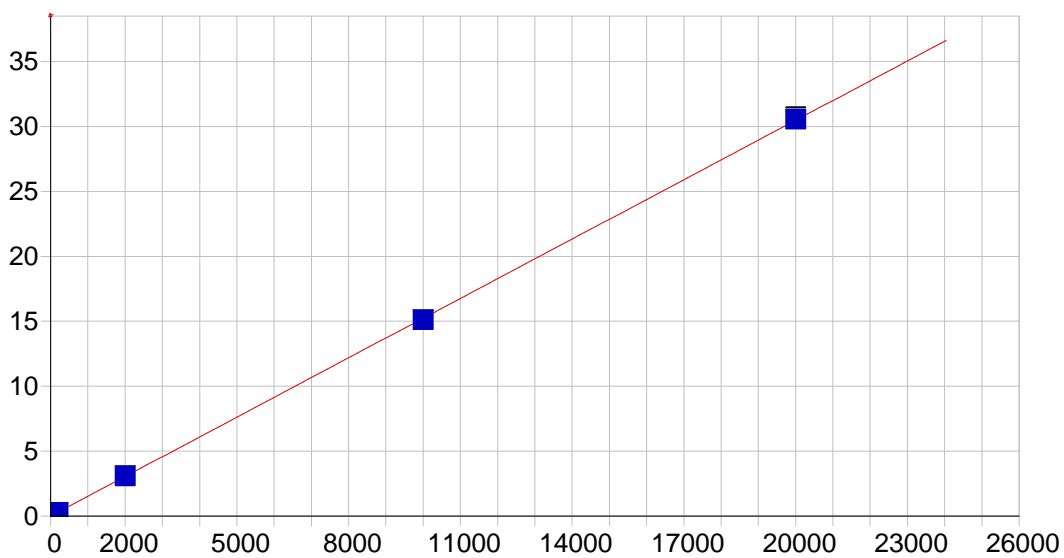
Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000	-.00357	-.004	.000	-.00406	.002	1
CAL2	200.00	203.12	3.12	1.56	.01552	.001	1
CAL3	25000.	25155.	155.	.618	2.4149	.006	1
CAL4	125000.	124180.	-817.	-.654	11.938	.025	1
CAL5	250000.	250660.	660.	.264	24.100	.048	1



As 189.042 {478}

Date of Fit: 4/23/2016 11:32:09 Type of Fit: Linear Weighting: 1/Conc



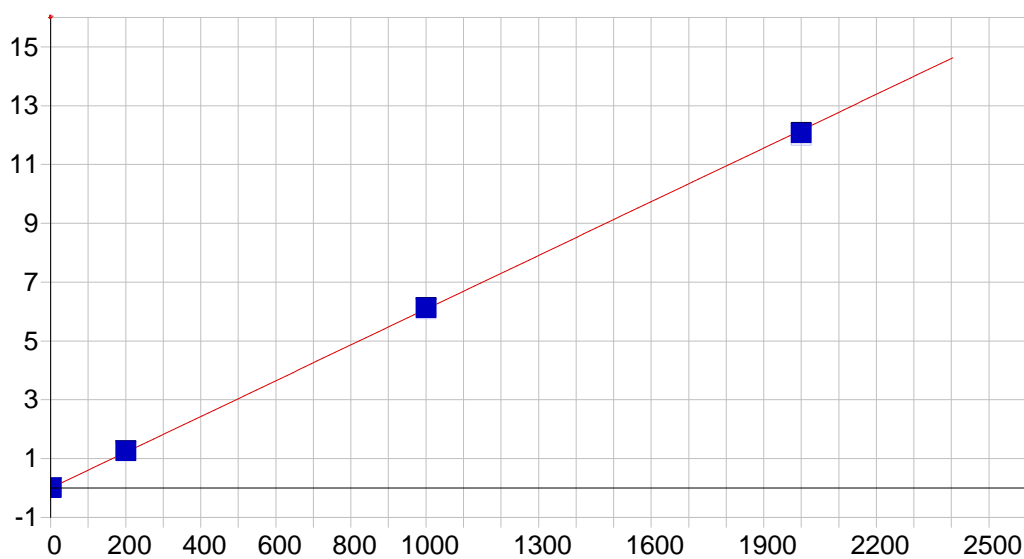


Ba 233.527 {445}

Date of Fit: 4/23/2016 11:32:09 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset):	0.000318	Re-Slope:	1.000000
A1 (Gain):	0.001524	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999985	Status:	OK.
Std Error of Est:	0.000867		
Predicted MDL:	0.195429		
Predicted MQL:	0.651430		

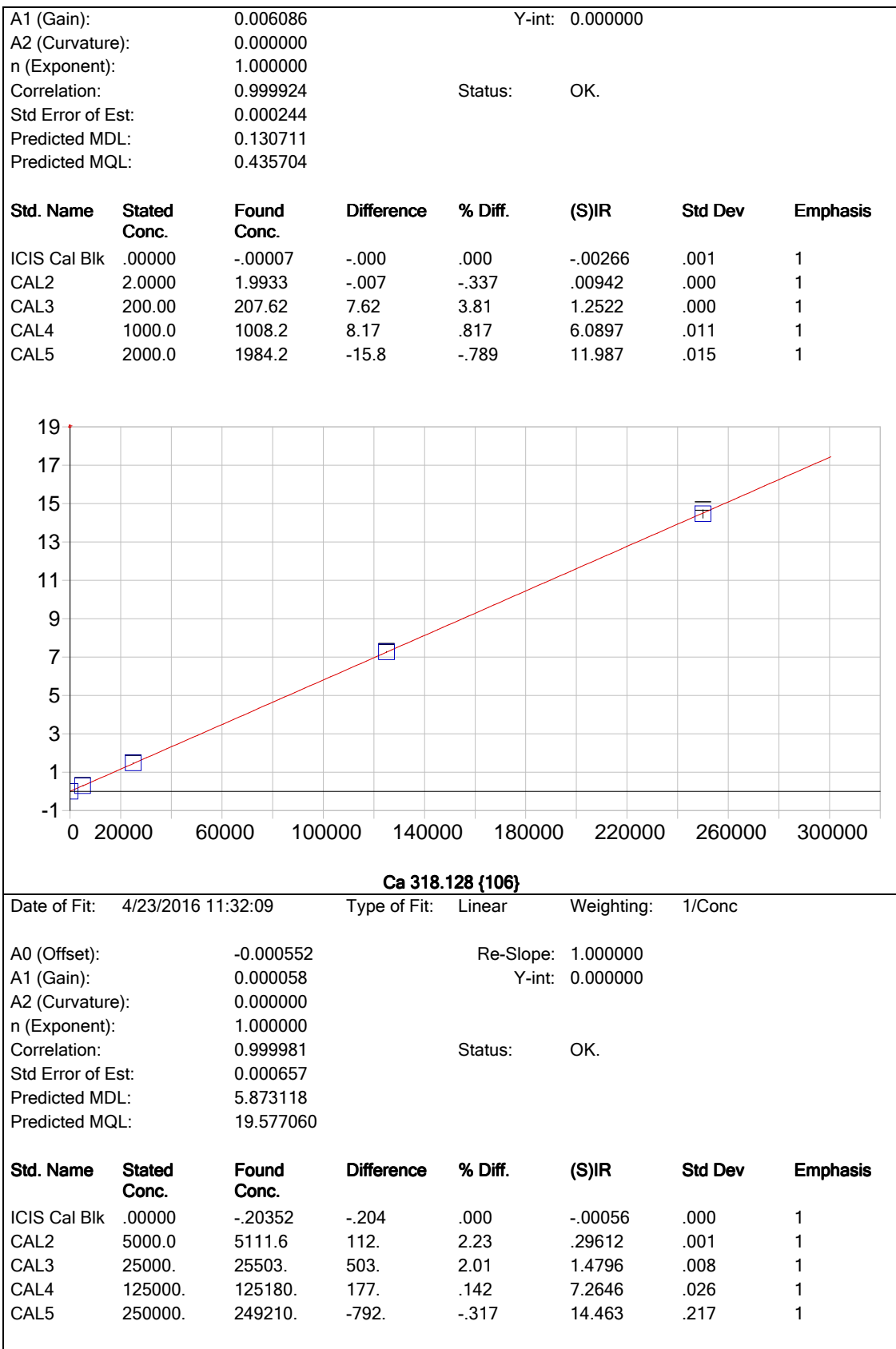
Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000	-.00103	-.001	.000	.00032	.000	1
CAL2	200.00	199.92	-.076	-.038	.30480	.001	1
CAL3	2000.0	2020.8	20.8	1.04	3.0755	.005	1
CAL4	10000.	9922.8	-77.2	-.772	15.100	.016	1
CAL5	20000.	20056.	56.4	.282	30.521	.170	1

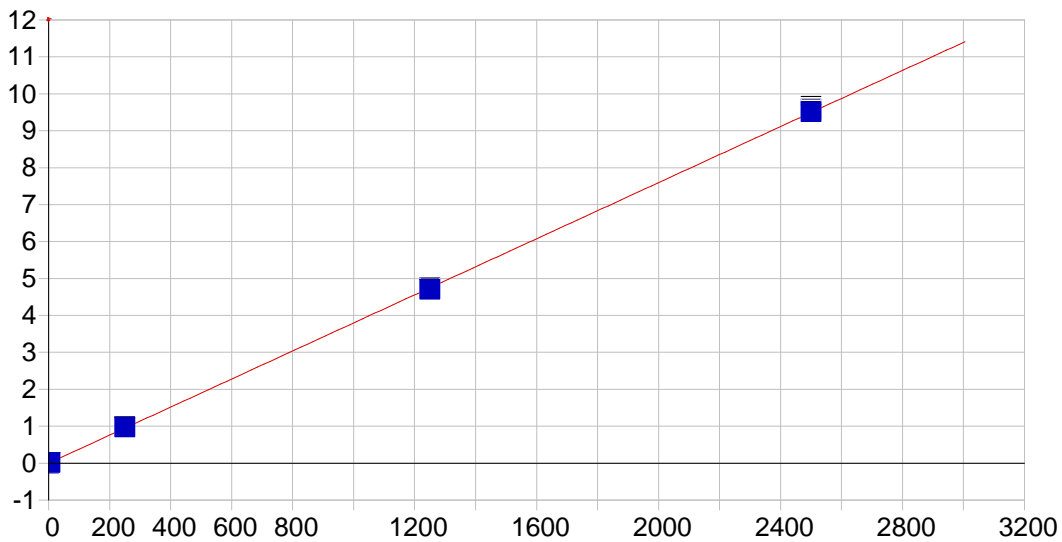


Be 313.042 {108}

Date of Fit: 4/23/2016 11:32:09 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset):	-0.002658	Re-Slope:	1.000000
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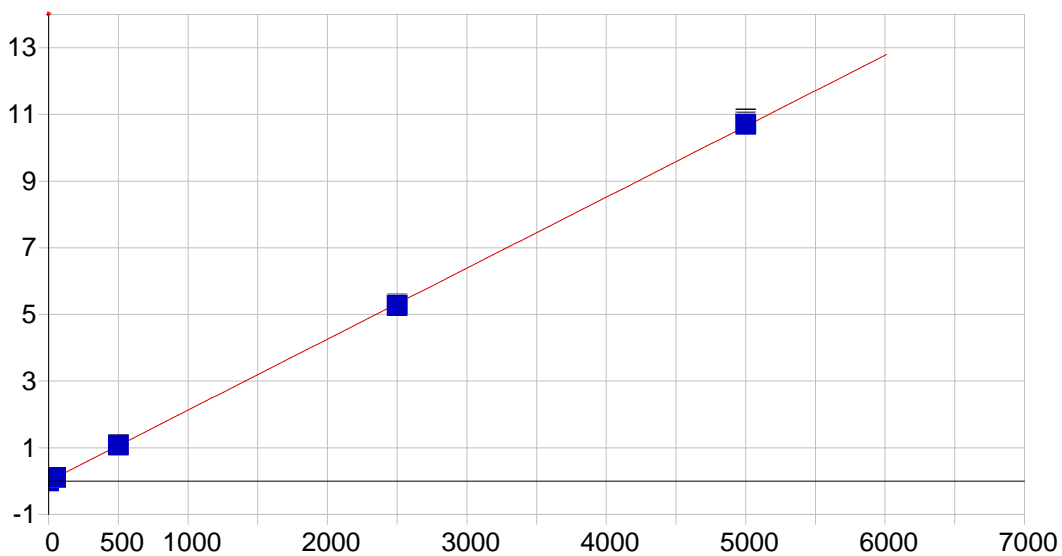


Cd 226.502 {449}

Date of Fit: 4/23/2016 11:32:09 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): -0.001831 Re-Slope: 1.000000
 A1 (Gain): 0.003798 Y-int: 0.000000
 A2 (Curvature): 0.000000
 n (Exponent): 1.000000
 Correlation: 0.999966 Status: OK.
 Std Error of Est: 0.000162
 Predicted MDL: 0.118062
 Predicted MQL: 0.393539

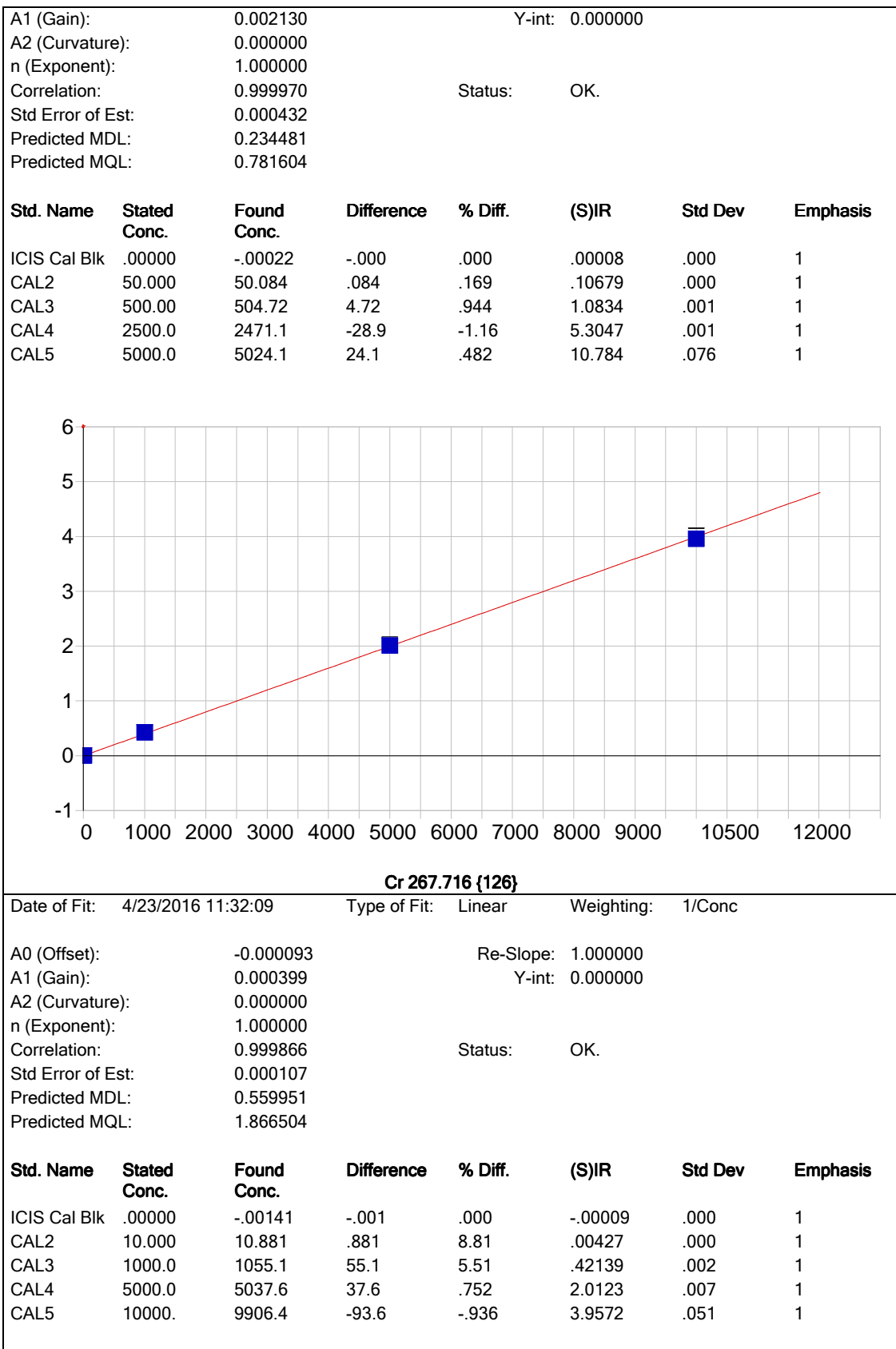
Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000	-.00018	-.000	.000	-.00183	.000	1
CAL2	4.0000	4.1111	.111	2.78	.01384	.000	1
CAL3	250.00	256.34	6.34	2.54	.97963	.001	1
CAL4	1250.0	1238.7	-11.3	-.901	4.7422	.008	1
CAL5	2500.0	2504.8	4.80	.192	9.5901	.073	1

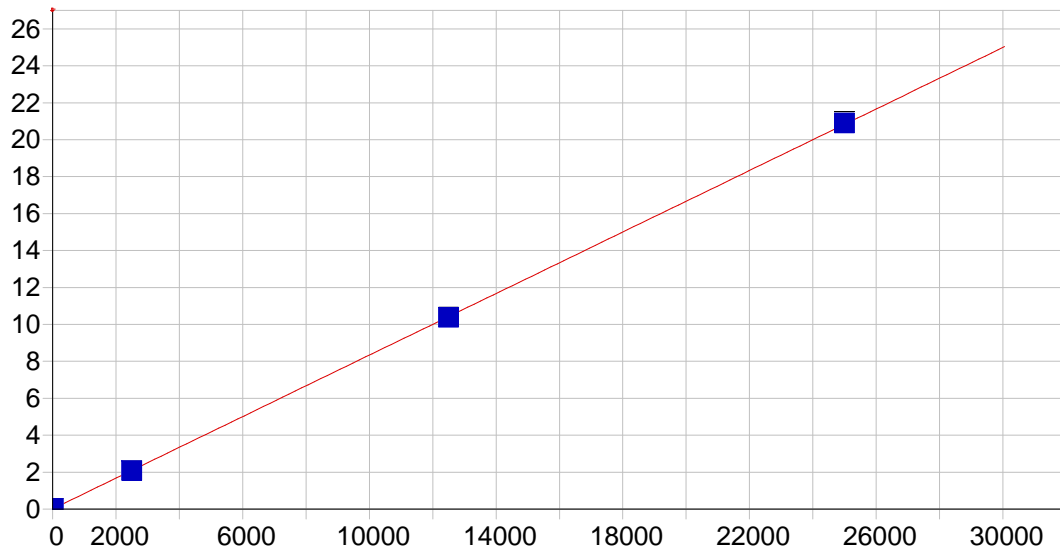


Co 228.616 {447}

Date of Fit: 4/23/2016 11:32:09 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.000080 Re-Slope: 1.000000



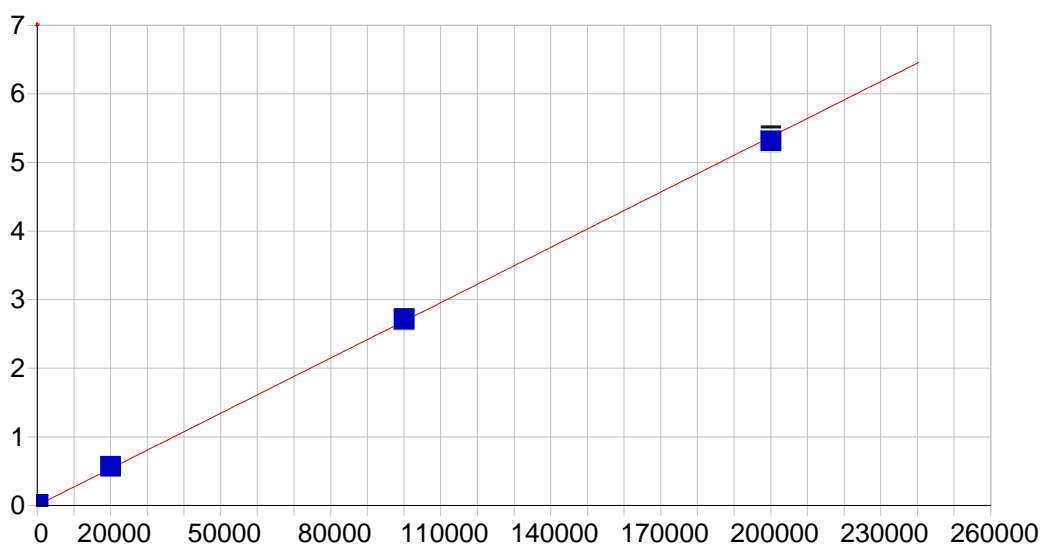


Cu 324.754 {104}

Date of Fit: 4/23/2016 11:32:09 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.012809 Re-Slope: 1.000000
 A1 (Gain): 0.000833 Y-int: 0.000000
 A2 (Curvature): 0.000000
 n (Exponent): 1.000000
 Correlation: 0.999991 Status: OK.
 Std Error of Est: 0.000143
 Predicted MDL: 0.414486
 Predicted MQL: 1.381622

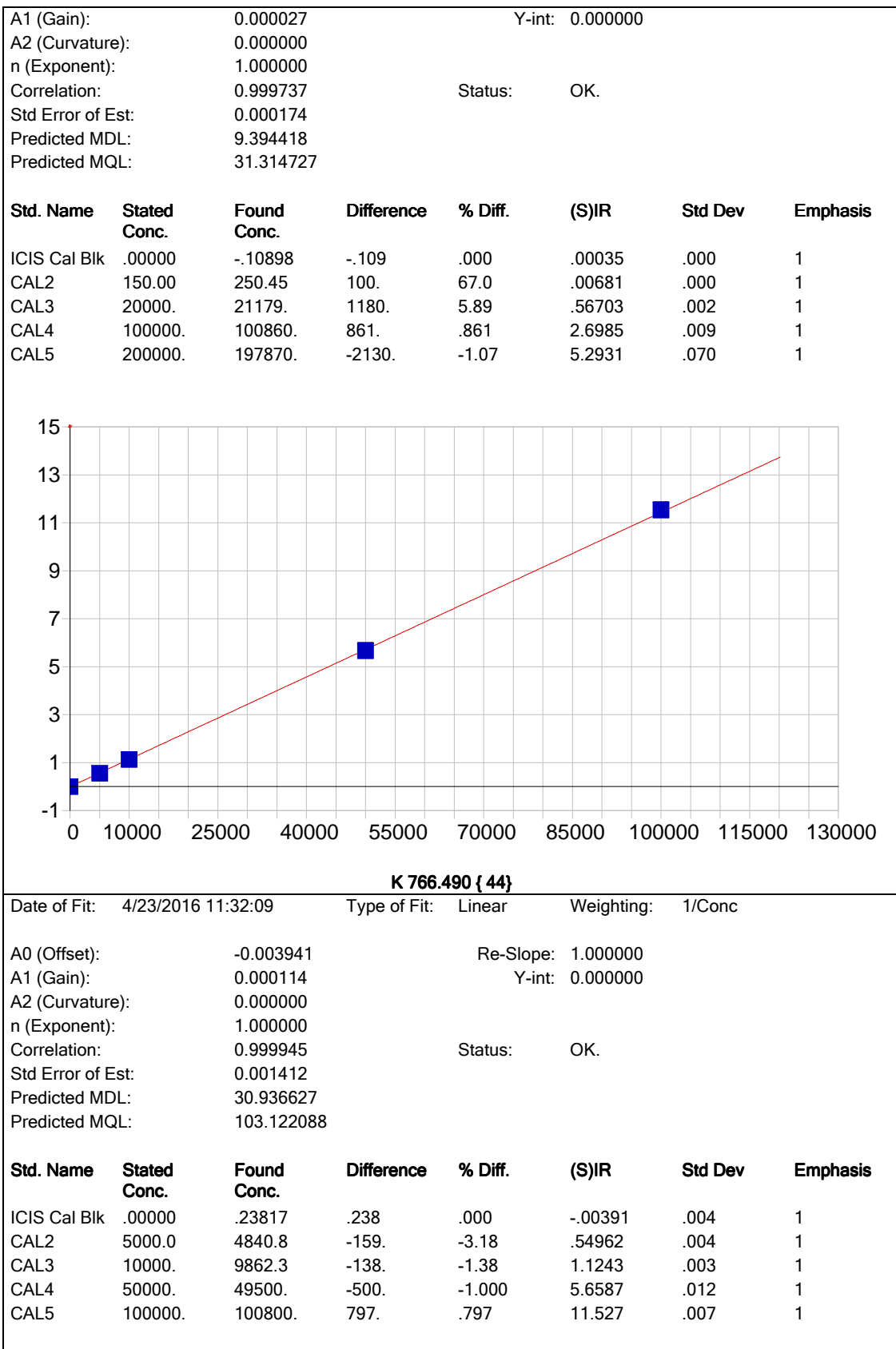
Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000	.00030	.000	.000	.01281	.000	1
CAL2	25.000	24.948	-.052	-.209	.03356	.000	1
CAL3	2500.0	2478.5	-21.5	-.861	2.0761	.003	1
CAL4	12500.	12442.	-58.2	-.465	10.370	.004	1
CAL5	25000.	25080.	79.8	.319	20.891	.091	1

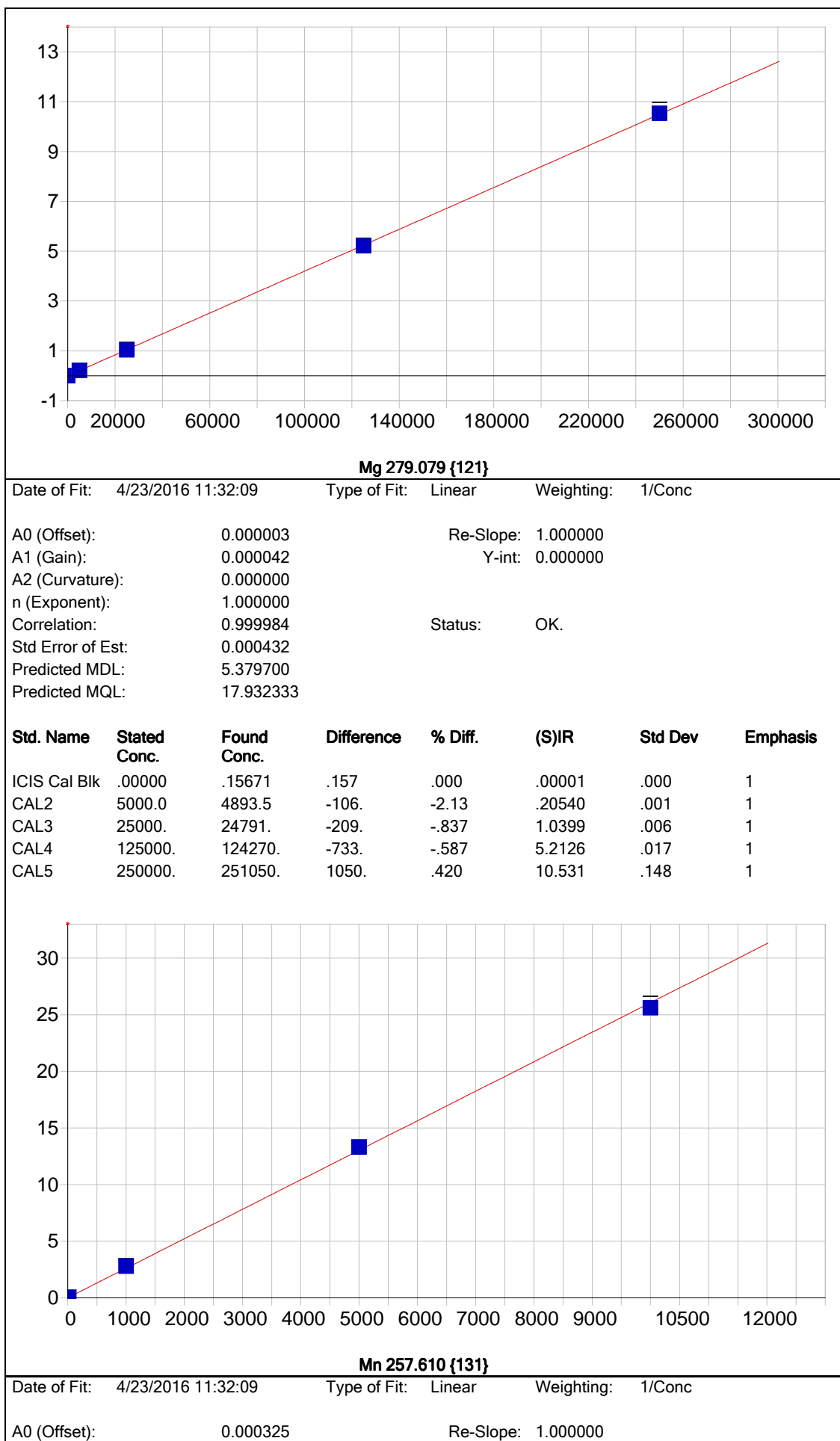


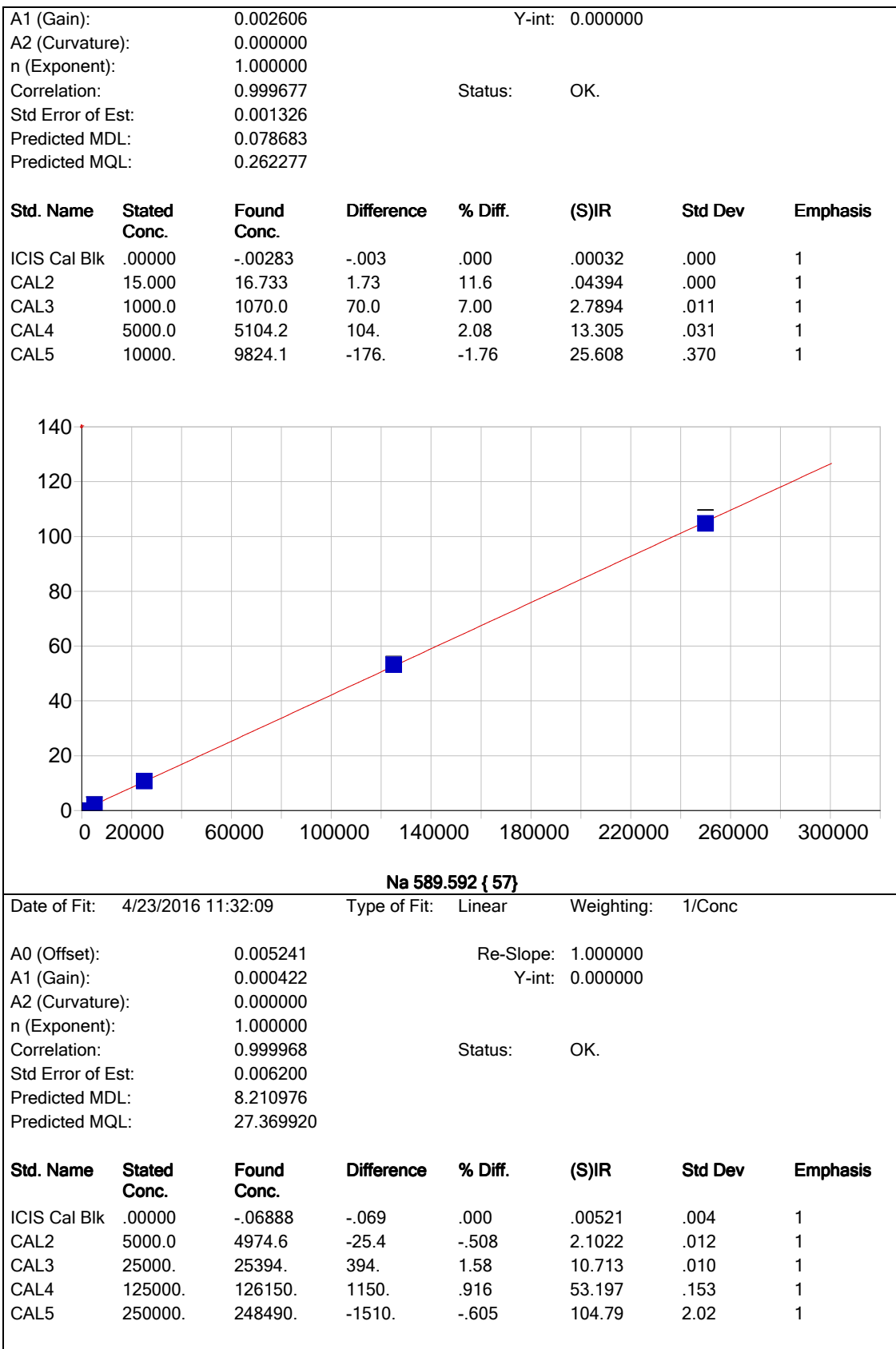
Fe 271.441 {124}

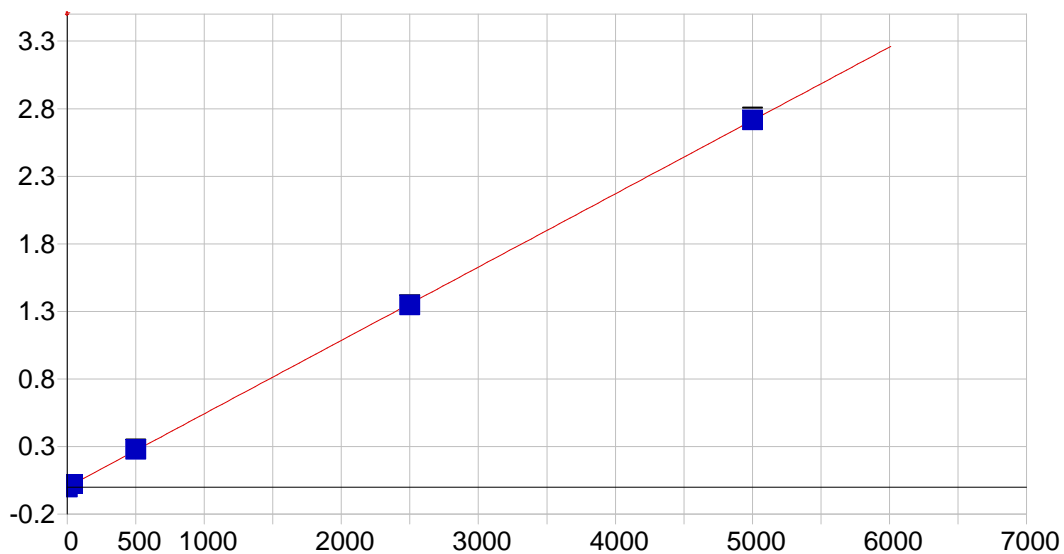
Date of Fit: 4/23/2016 11:32:09 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.000353 Re-Slope: 1.000000







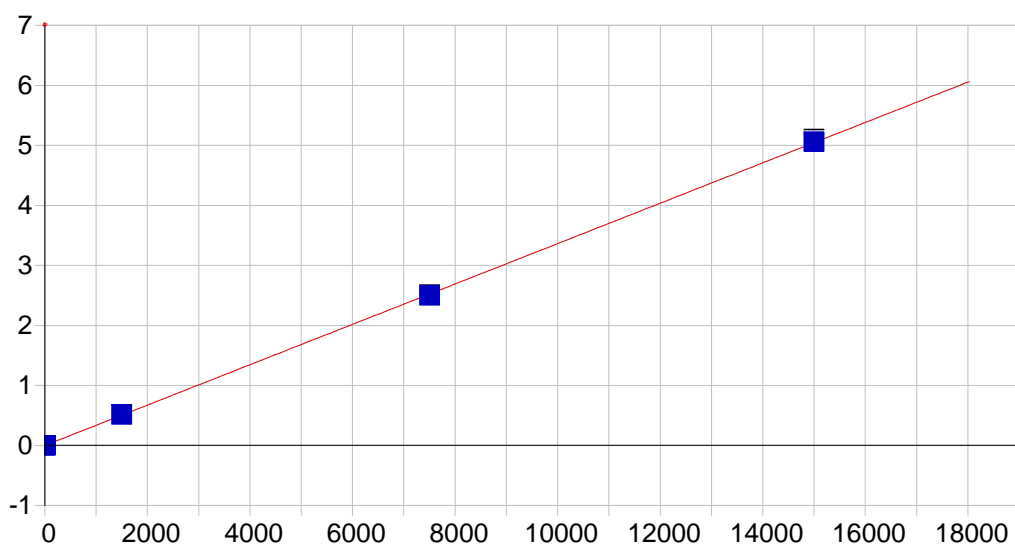


Ni 231.604 {446}

Date of Fit: 4/23/2016 11:32:09 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): -0.000323 Re-Slope: 1.000000
 A1 (Gain): 0.000543 Y-int: 0.000000
 A2 (Curvature): 0.000000
 n (Exponent): 1.000000
 Correlation: 0.999964 Status: OK.
 Std Error of Est: 0.000107
 Predicted MDL: 0.634320
 Predicted MQL: 2.114400

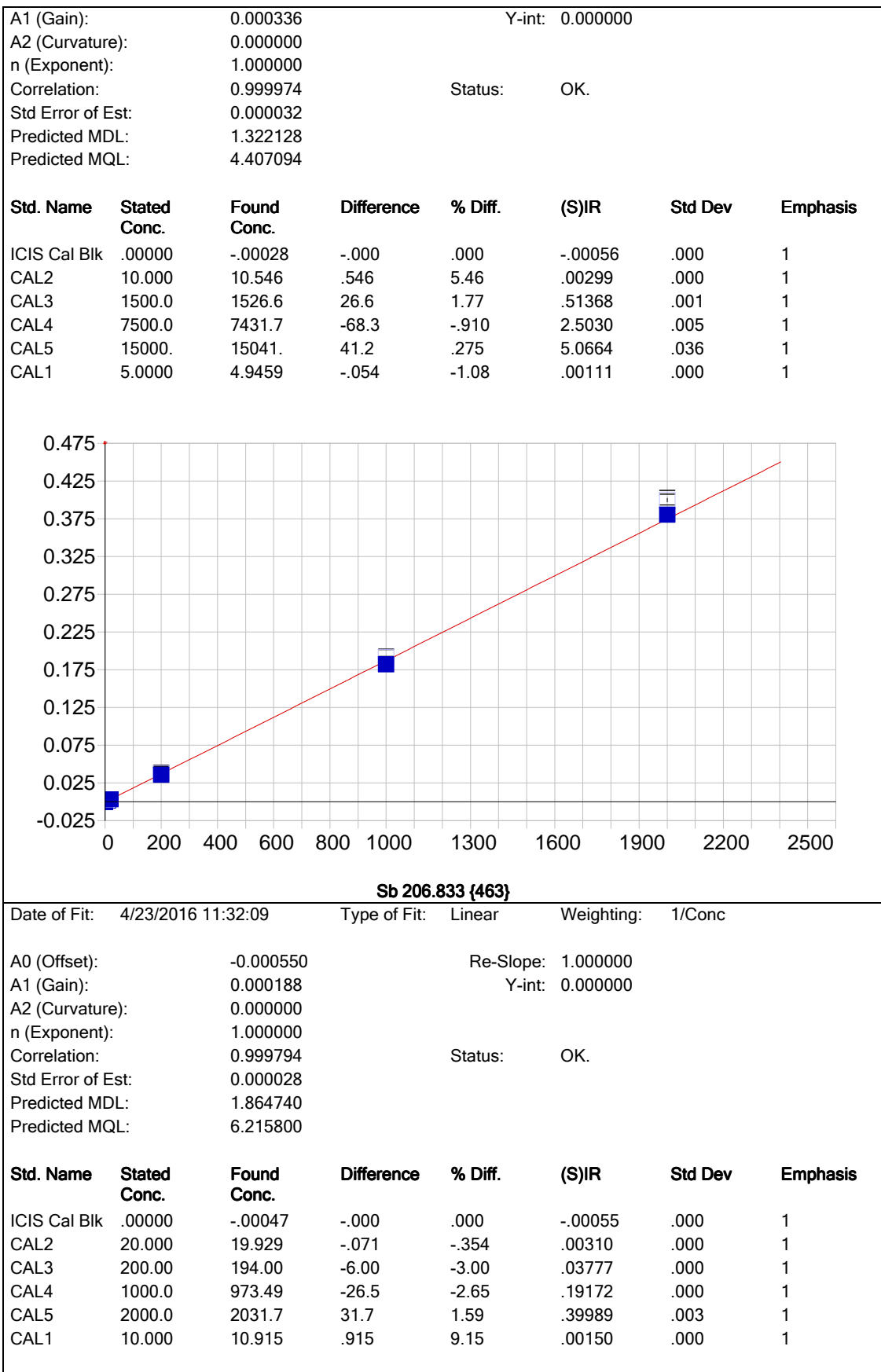
Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000	-.00119	-.001	.000	-.00032	.000	1
CAL2	40.000	40.286	.286	.714	.02154	.000	1
CAL3	500.00	514.68	14.7	2.94	.27930	.001	1
CAL4	2500.0	2481.1	-18.9	-.755	1.3477	.002	1
CAL5	5000.0	5003.9	3.92	.078	2.7184	.018	1

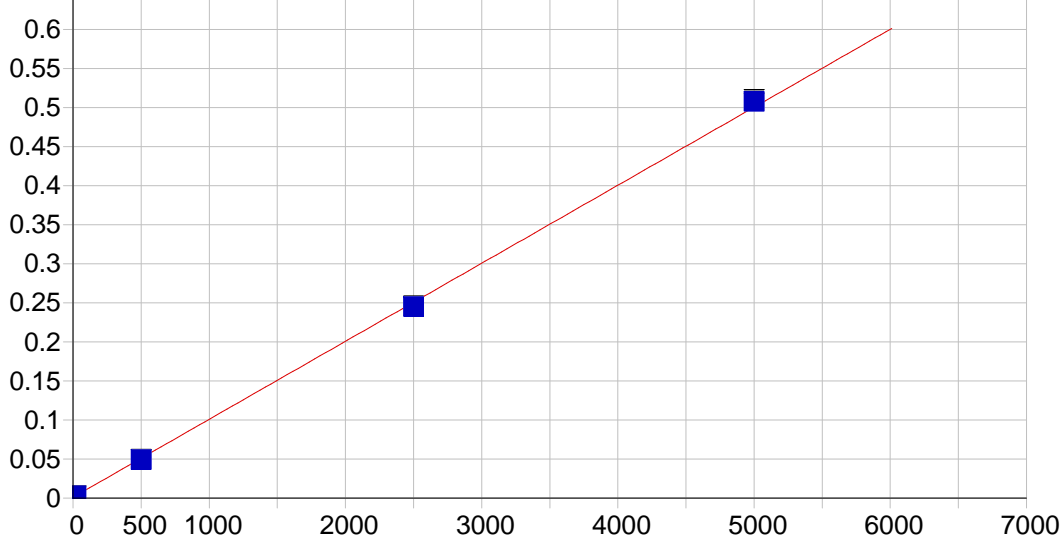


Pb 220.353 {453}

Date of Fit: 4/23/2016 11:32:09 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): -0.000556 Re-Slope: 1.000000



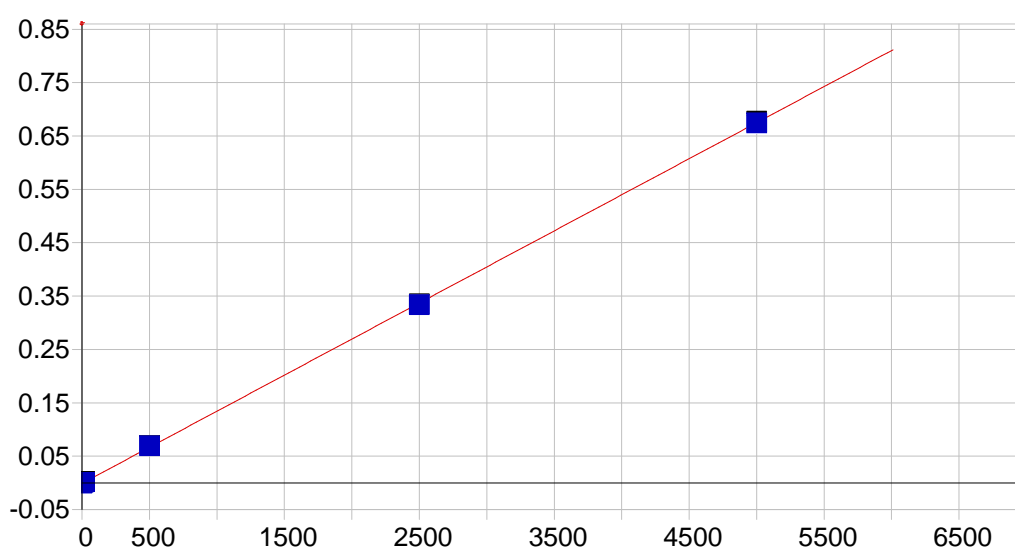


Se 196.090 {472}

Date of Fit: 4/23/2016 11:32:09 Type of Fit: Linear Weighting: 1/Conc

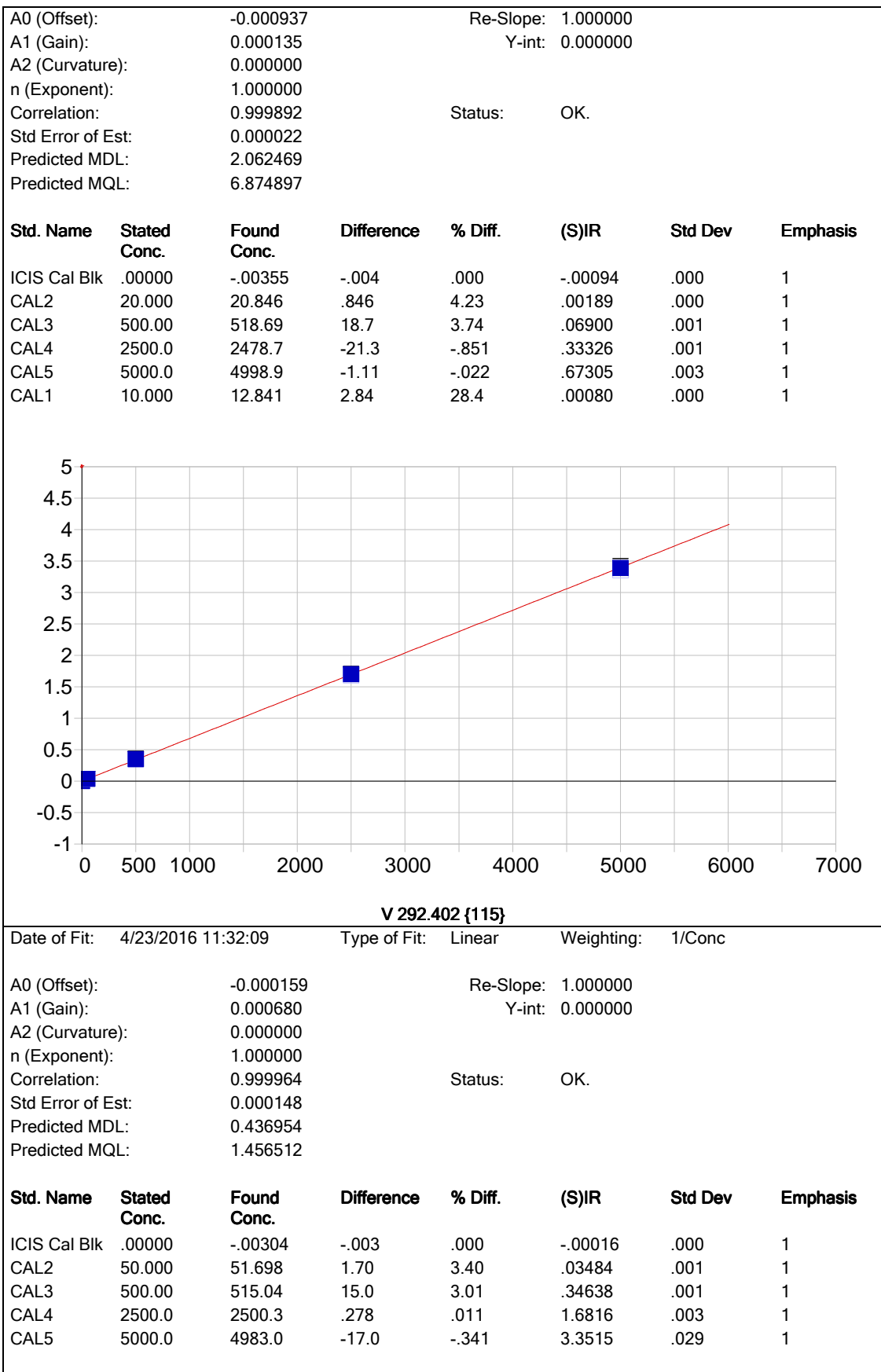
A0 (Offset): 0.001009 Re-Slope: 1.000000
 A1 (Gain): 0.000100 Y-int: 0.000000
 A2 (Curvature): 0.000000
 n (Exponent): 1.000000
 Correlation: 0.999789 Status: OK.
 Std Error of Est: 0.000016
 Predicted MDL: 2.756555
 Predicted MQL: 9.188515

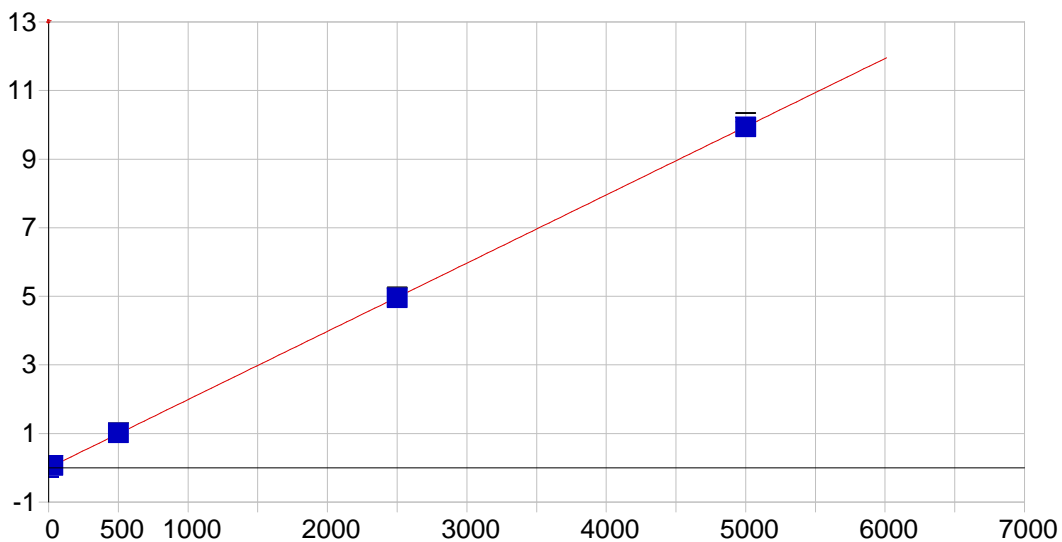
Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000	.00057	.001	.000	.00101	.000	1
CAL2	20.000	17.007	-2.99	-15.0	.00271	.000	1
CAL3	500.00	484.12	-15.9	-3.18	.04937	.000	1
CAL4	2500.0	2443.3	-56.7	-2.27	.24508	.001	1
CAL5	5000.0	5075.2	75.2	1.50	.50797	.002	1
CAL1	5.0000	5.3745	.375	7.49	.00155	.000	1



TI 190.856 {477}

Date of Fit: 4/23/2016 11:32:09 Type of Fit: Linear Weighting: 1/Conc



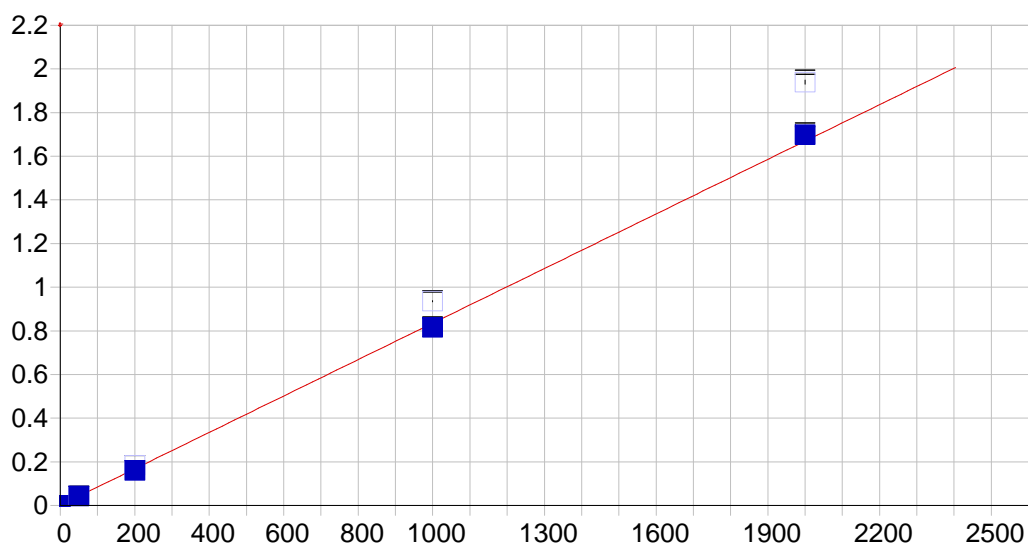


Zn 206.200 {463}

Date of Fit: 4/23/2016 11:32:09 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): -0.000325 Re-Slope: 1.000000
 A1 (Gain): 0.001989 Y-int: 0.000000
 A2 (Curvature): 0.000000
 n (Exponent): 1.000000
 Correlation: 0.999962 Status: OK.
 Std Error of Est: 0.000347
 Predicted MDL: 0.172688
 Predicted MQL: 0.575627

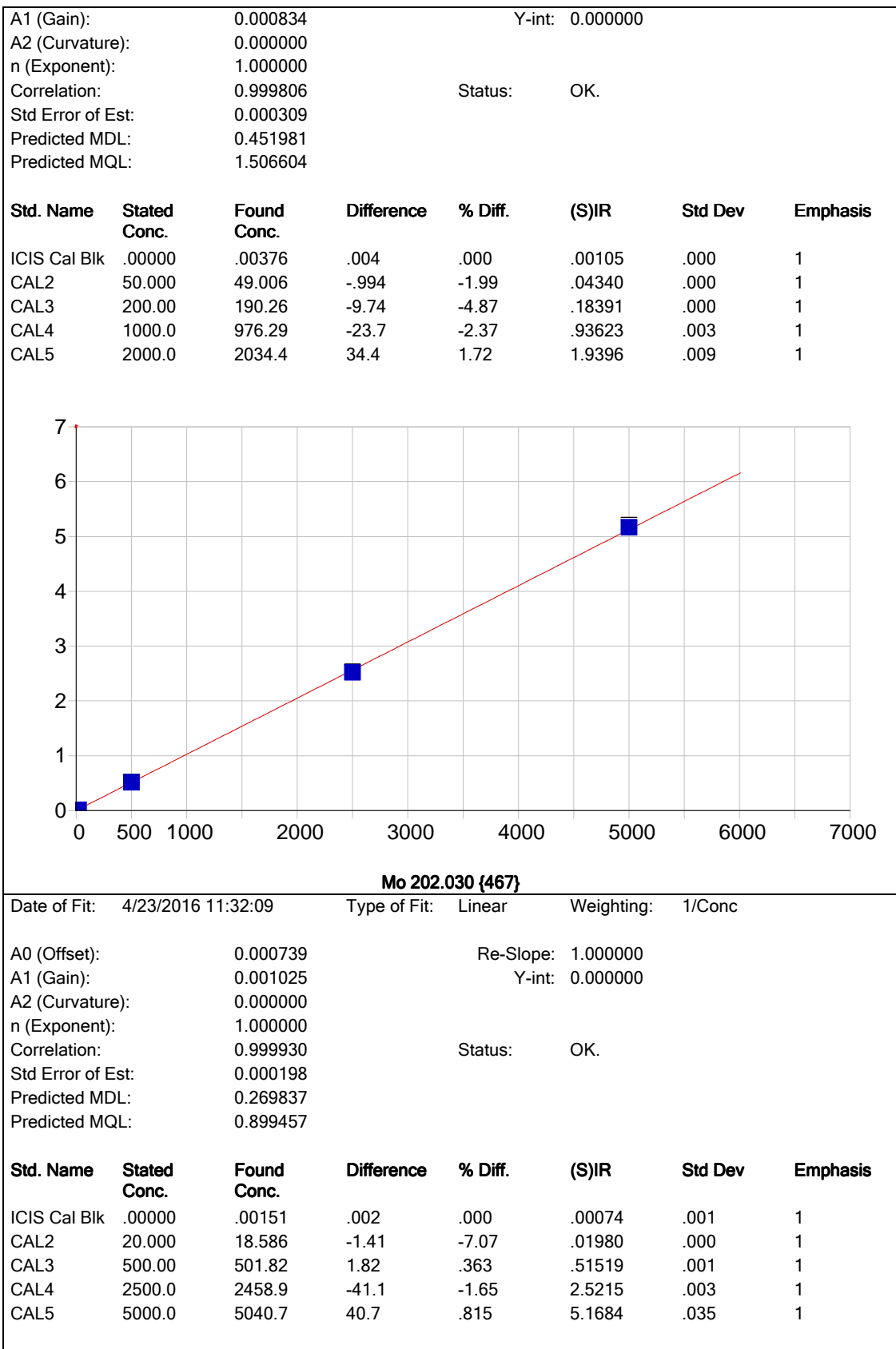
Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000	-.00375	-.004	.000	-.00033	.000	1
CAL2	30.000	33.266	3.27	10.9	.06583	.000	1
CAL3	500.00	510.36	10.4	2.07	1.0137	.003	1
CAL4	2500.0	2490.8	-9.24	-.370	4.9486	.022	1
CAL5	5000.0	4995.6	-4.38	-.088	9.9256	.126	1

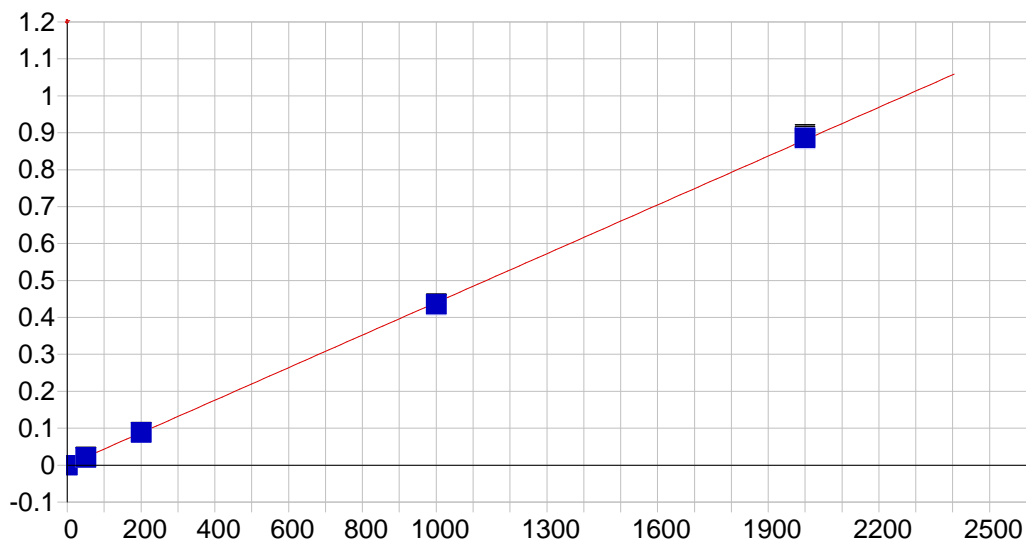


B 208.959 {461}

Date of Fit: 4/23/2016 11:32:09 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.001049 Re-Slope: 1.000000



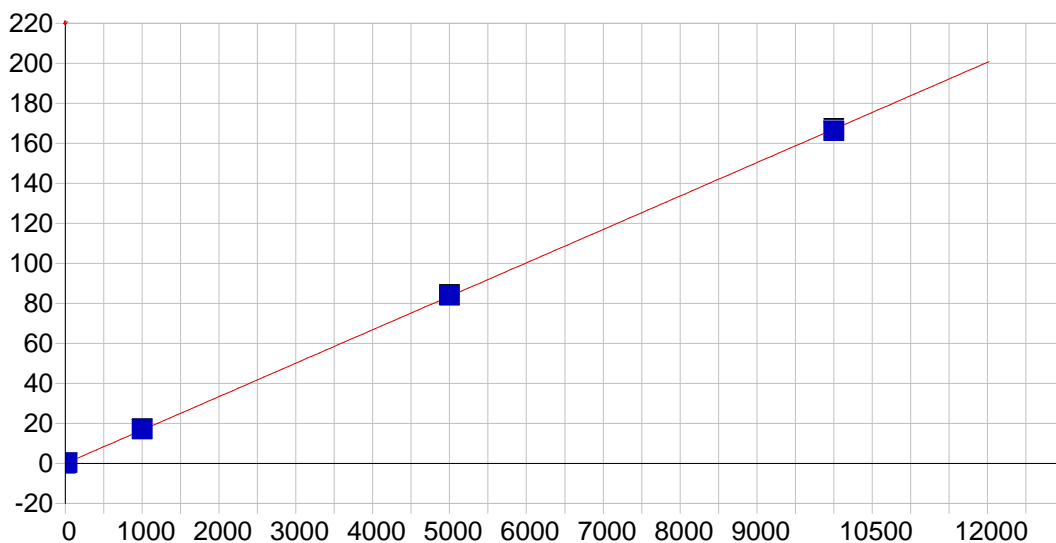


Sn 189.989 {477}

Date of Fit: 4/23/2016 11:32:09 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): -0.000288 Re-Slope: 1.000000
 A1 (Gain): 0.000441 Y-int: 0.000000
 A2 (Curvature): 0.000000
 n (Exponent): 1.000000
 Correlation: 0.999947 Status: OK.
 Std Error of Est: 0.000075
 Predicted MDL: 0.628014
 Predicted MQL: 2.093379

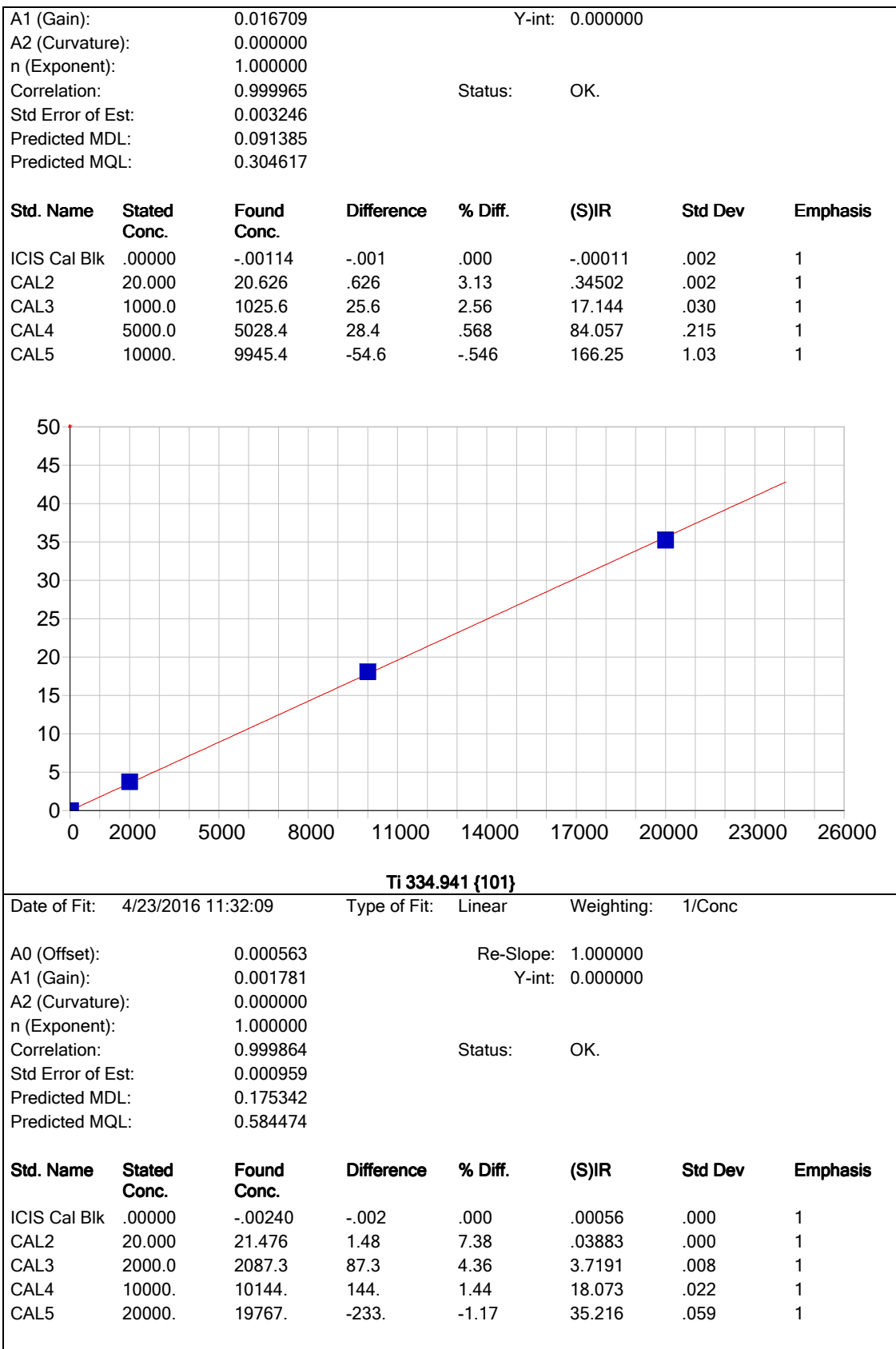
Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000	.00252	.003	.000	-.00029	.000	1
CAL2	50.000	47.462	-2.54	-5.08	.02062	.000	1
CAL3	200.00	201.03	1.03	.517	.08790	.000	1
CAL4	1000.0	988.71	-11.3	-1.13	.43339	.001	1
CAL5	2000.0	2012.8	12.8	.640	.88267	.008	1

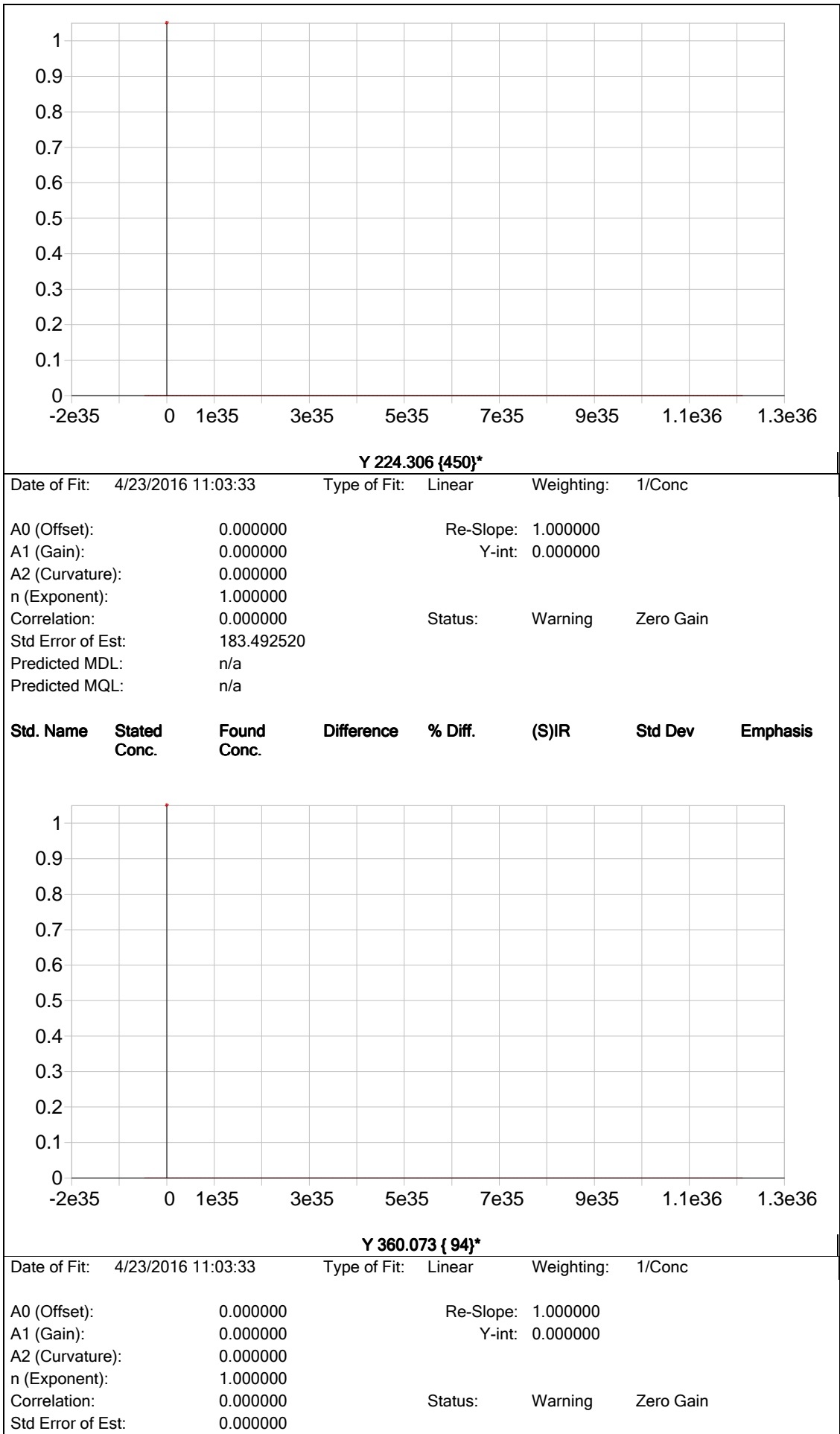


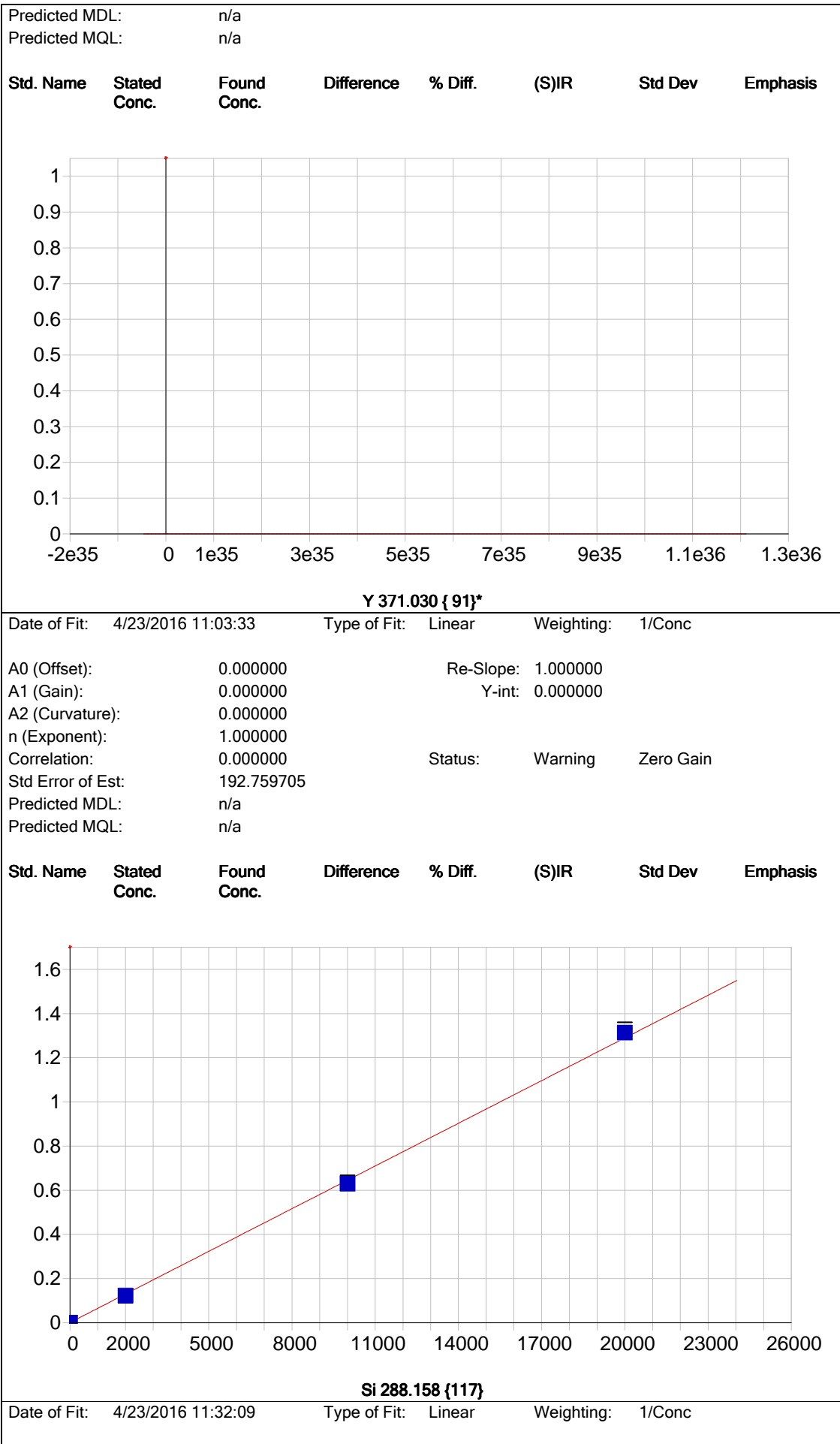
Sr 407.771 {83}

Date of Fit: 4/23/2016 11:32:09 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): -0.000088 Re-Slope: 1.000000







A0 (Offset):	0.001151	Re-Slope:	1.000000
A1 (Gain):	0.000064	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999670	Status:	OK.
Std Error of Est:	0.000591		
Predicted MDL:	15.292950		
Predicted MQL:	50.976499		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000	.13812	.138	.000	.00116	.000	1
CAL5	20000.	20374.	374.	1.87	1.3119	.014	1
CAL3	2000.0	1874.1	-126.	-6.30	.12170	.001	1
CAL4	10000.	9752.2	-248.	-2.48	.62852	.005	1

Sample Name: ICIS Cal Blk Acquired: 4/23/2016 11:09:44 Type: Cal
Method: BC042316 Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	-.0041	-.0010	.0008	.0003	-.0027	-.0006
Stddev	.0015	.0002	.0002	.0001	.0007	.0001
%RSD	37.39	23.00	24.78	18.64	26.24	12.83

#1	-.0025	-.0011	.0008	.0004	-.0035	-.0005
#2	-.0041	-.0007	.0010	.0002	-.0024	-.0005
#3	-.0056	-.0012	.0006	.0003	-.0022	-.0006

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	-.0018	.0001	-.0001	.0128	.0003	-.0039
Stddev	.0002	.0001	.0001	.0002	.0002	.0040
%RSD	8.822	170.7	136.1	1.528	47.54	103.4

#1	-.0020	.0000	.0000	.0127	.0005	.0007
#2	-.0018	-.0000	-.0000	.0130	.0002	-.0066
#3	-.0017	.0002	-.0002	.0127	.0003	-.0059

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0000	.0003	.0052	-.0003	-.0006	-.0006
Stddev	.0001	.0001	.0040	.0002	.0003	.0003
%RSD	1431.	37.72	76.99	60.53	62.53	55.81

#1	-.0001	.0003	.0093	-.0001	-.0002	-.0005
#2	.0002	.0002	.0013	-.0005	-.0005	-.0003
#3	-.0000	.0005	.0050	-.0004	-.0009	-.0009

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0010	-.0009	-.0002	-.0003	.0011	.0007
Stddev	.0002	.0002	.0002	.0003	.0003	.0005
%RSD	17.82	22.68	103.7	94.04	25.30	72.59

#1	.0010	-.0007	.0000	-.0006	.0013	.0001
#2	.0012	-.0010	-.0002	.0000	.0008	.0012
#3	.0009	-.0011	-.0003	-.0005	.0011	.0009

Sample Name: ICIS Cal Blk Acquired: 4/23/2016 11:09:44 Type: Cal
Method: BC042316 Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	-.0003	-.0001	.0006	.0012
Stddev	.0003	.0016	.0001	.0003
%RSD	90.03	1447.	19.69	22.41

#1	-.0005	-.0008	.0006	.0009
#2	.0000	.0017	.0006	.0014
#3	-.0004	-.0012	.0004	.0013

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	1984.5	13775.	2811.0
Stddev	15.4	210.	66.2
%RSD	.77805	1.5266	2.3543

#1	1996.9	14014.	2875.3
#2	1967.2	13692.	2814.7
#3	1989.5	13619.	2743.1

Sample Name: CAL1 Acquired: 4/23/2016 11:13:33 Type: Cal
Method: BC042316 Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Pb2203	Sb2068	Se196	Tl1908
Line	189.042 {478}	220.353 {453}	206.833 {463}	196.090 {472}	190.856 {477}
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	-.0006	.0011	.0015	.0015	.0008
Stddev	.0002	.0005	.0002	.0002	.0003
%RSD	33.01	42.65	10.03	9.913	42.99

#1	-.0005	.0009	.0015	.0015	.0005
#2	-.0004	.0016	.0016	.0017	.0007
#3	-.0008	.0007	.0013	.0014	.0012

Int. Std.	Y_2243
Line	224.306 {450}
Units	Cts/S
Avg	1992.2
Stddev	3.2
%RSD	.15824

#1	1992.1
#2	1989.1
#3	1995.4

Sample Name: CAL2 Acquired: 4/23/2016 11:17:25 Type: Cal
Method: BC042316 Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0155	.0013	.0061	.3048	.0094	.2961
Stddev	.0010	.0002	.0002	.0007	.0003	.0005
%RSD	6.611	17.10	2.891	.2450	3.619	.1777

#1	.0144	.0012	.0061	.3045	.0098	.2955
#2	.0163	.0012	.0063	.3057	.0092	.2965
#3	.0159	.0016	.0059	.3043	.0092	.2963

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0138	.1068	.0043	.0336	.0068	.5496
Stddev	.0005	.0004	.0002	.0004	.0002	.0039
%RSD	3.481	.4140	4.557	1.305	3.121	.7087

#1	.0138	.1069	.0043	.0332	.0068	.5483
#2	.0134	.1072	.0041	.0335	.0066	.5466
#3	.0144	.1063	.0044	.0340	.0070	.5540

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.2054	.0439	2.102	.0215	.0030	.0031
Stddev	.0015	.0003	.012	.0001	.0002	.0001
%RSD	.7182	.6086	.5598	.6131	6.214	2.293

#1	.2047	.0440	2.114	.0217	.0031	.0031
#2	.2044	.0437	2.103	.0216	.0031	.0032
#3	.2071	.0442	2.090	.0214	.0028	.0030

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0027	.0019	.0348	.0658	.0434	.0198
Stddev	.0004	.0002	.0007	.0002	.0002	.0003
%RSD	13.70	9.509	2.030	.3767	.4646	1.406

#1	.0031	.0017	.0340	.0660	.0436	.0201
#2	.0024	.0021	.0351	.0655	.0435	.0196
#3	.0026	.0019	.0354	.0659	.0432	.0197

Sample Name: CAL2 Acquired: 4/23/2016 11:17:25 Type: Cal
Method: BC042316 Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349
Line	189.989 {477}	407.771 { 83}	334.941 {101}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)
Units	Cts/S	Cts/S	Cts/S
Avg	.0206	.3450	.0388
Stddev	.0004	.0023	.0003
%RSD	1.812	.6762	.7963

#1	.0208	.3445	.0387
#2	.0209	.3476	.0386
#3	.0202	.3430	.0392

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2012.1	14090.	2954.1
Stddev	1.9	40.	14.0
%RSD	.09340	.28051	.47448

#1	2010.0	14110.	2937.9
#2	2013.7	14116.	2961.0
#3	2012.5	14044.	2963.2

Sample Name: CAL3 Acquired: 4/23/2016 11:21:13 Type: Cal
Method: BC042316 Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2.415	.0734	.1384	3.076	1.252	1.480
Stddev	.006	.0003	.0009	.005	.001	.007
%RSD	.2413	.3417	.6148	.1593	.0396	.5087

#1	2.410	.0733	.1377	3.070	1.252	1.485
#2	2.421	.0732	.1394	3.079	1.252	1.482
#3	2.414	.0736	.1382	3.078	1.253	1.471

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.9796	1.083	.4214	2.076	.5670	1.124
Stddev	.0009	.001	.0016	.003	.0021	.003
%RSD	.0930	.0792	.3823	.1631	.3766	.2447

#1	.9800	1.084	.4226	2.072	.5686	1.123
#2	.9803	1.083	.4221	2.079	.5679	1.127
#3	.9786	1.082	.4196	2.077	.5646	1.123

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1.040	2.789	10.71	.2793	.5137	.0378
Stddev	.006	.011	.01	.0005	.0010	.0002
%RSD	.5579	.4081	.0929	.1809	.1987	.5754

#1	1.042	2.794	10.70	.2799	.5127	.0380
#2	1.045	2.798	10.72	.2789	.5147	.0377
#3	1.033	2.776	10.72	.2791	.5137	.0376

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0494	.0690	.3464	1.014	.1839	.5152
Stddev	.0003	.0005	.0006	.003	.0001	.0010
%RSD	.6291	.7588	.1606	.2599	.0681	.1914

#1	.0490	.0684	.3470	1.016	.1839	.5144
#2	.0494	.0693	.3463	1.011	.1838	.5149
#3	.0496	.0693	.3459	1.015	.1840	.5163

Sample Name: CAL3 Acquired: 4/23/2016 11:21:13 Type: Cal
Method: BC042316 Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0879	17.14	3.719	.1217
Stddev	.0004	.03	.008	.0015
%RSD	.4891	.1762	.2225	1.227

#1	.0876	17.11	3.718	.1200
#2	.0877	17.15	3.728	.1225
#3	.0884	17.17	3.712	.1226

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	1930.1	13526.	2804.1
Stddev	3.5	133.	37.4
%RSD	.18344	.98031	1.3340

#1	1927.4	13399.	2781.1
#2	1934.1	13517.	2784.1
#3	1928.7	13664.	2847.3

Sample Name: CAL4 Acquired: 4/23/2016 11:24:45 Type: Cal
Method: BC042316 Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	11.94	.3750	.6954	15.10	6.090	7.265
Stddev	.02	.0018	.0017	.02	.011	.026
%RSD	.2062	.4901	.2469	.1039	.1816	.3602

#1	11.94	.3731	.6957	15.12	6.099	7.288
#2	11.96	.3767	.6936	15.09	6.092	7.237
#3	11.91	.3752	.6970	15.09	6.078	7.269

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4.742	5.305	2.012	10.37	2.699	5.659
Stddev	.009	.001	.007	.00	.009	.012
%RSD	.1783	.0112	.3385	.0394	.3275	.2196

#1	4.750	5.304	2.018	10.37	2.708	5.660
#2	4.733	5.305	2.005	10.37	2.691	5.670
#3	4.743	5.304	2.014	10.37	2.697	5.646

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5.213	13.30	53.20	1.348	2.503	.1917
Stddev	.017	.03	.15	.002	.005	.0004
%RSD	.3228	.2302	.2880	.1258	.2008	.2013

#1	5.231	13.34	53.31	1.349	2.507	.1919
#2	5.198	13.28	53.26	1.346	2.497	.1920
#3	5.208	13.30	53.02	1.349	2.505	.1913

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.2451	.3333	1.682	4.949	.9362	2.522
Stddev	.0006	.0012	.003	.022	.0028	.003
%RSD	.2352	.3540	.1776	.4435	.3008	.1287

#1	.2448	.3333	1.685	4.958	.9332	2.524
#2	.2457	.3321	1.679	4.923	.9388	2.523
#3	.2447	.3344	1.682	4.964	.9366	2.518

Sample Name: CAL4 Acquired: 4/23/2016 11:24:45 Type: Cal
Method: BC042316 Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.4334	84.06	18.07	.6285
Stddev	.0011	.22	.02	.0050
%RSD	.2619	.2564	.1239	.7945

#1	.4346	84.12	18.10	.6276
#2	.4323	84.24	18.06	.6240
#3	.4333	83.82	18.06	.6339

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	1809.5	13024.	2761.9
Stddev	9.4	96.	8.5
%RSD	.52037	.73912	.30638

#1	1804.5	12915.	2752.1
#2	1820.3	13096.	2766.5
#3	1803.6	13062.	2767.1

Sample Name: CAL5 Acquired: 4/23/2016 11:28:11 Type: Cal
Method: BC042316 Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	24.10	.7851	1.420	30.52	11.99	14.46
Stddev	.05	.0061	.009	.17	.01	.22
%RSD	.2009	.7745	.6706	.5577	.1221	1.503

#1	24.15	.7897	1.430	30.69	12.00	14.71
#2	24.06	.7872	1.420	30.52	11.97	14.39
#3	24.09	.7782	1.411	30.35	11.99	14.29

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9.590	10.78	3.957	20.89	5.293	11.53
Stddev	.073	.08	.051	.09	.070	.01
%RSD	.7602	.7081	1.283	.4374	1.326	.0637

#1	9.663	10.85	4.014	20.90	5.370	11.53
#2	9.589	10.79	3.942	20.98	5.276	11.52
#3	9.518	10.70	3.916	20.80	5.233	11.53

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	10.53	25.61	104.8	2.718	5.066	.3999
Stddev	.15	.37	2.0	.018	.036	.0026
%RSD	1.405	1.446	1.925	.6668	.7153	.6436

#1	10.70	26.04	106.8	2.736	5.104	.4022
#2	10.49	25.38	102.8	2.720	5.063	.4003
#3	10.41	25.41	104.7	2.700	5.032	.3971

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.5080	.6731	3.351	9.926	1.940	5.168
Stddev	.0023	.0030	.029	.126	.009	.035
%RSD	.4512	.4481	.8802	1.266	.4598	.6718

#1	.5093	.6765	3.382	10.06	1.942	5.199
#2	.5093	.6713	3.349	9.895	1.947	5.175
#3	.5053	.6713	3.323	9.818	1.930	5.131

Sample Name: CAL5 Acquired: 4/23/2016 11:28:11 Type: Cal
 Method: BC042316 Mode: IR Corr. Factor: 1.000000
 User: admin Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.8827	166.3	35.22	1.312
Stddev	.0082	1.0	.06	.014
%RSD	.9256	.6202	.1681	1.070

#1	.8906	165.5	35.28	1.296
#2	.8832	165.8	35.17	1.319
#3	.8742	167.4	35.19	1.321

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	1711.0	12717.	2696.4
Stddev	18.1	287.	69.6
%RSD	1.0584	2.2568	2.5815

#1	1690.1	12386.	2616.2
#2	1722.5	12880.	2741.0
#3	1720.4	12887.	2732.1

Sample Name: ICV Acquired: 4/23/2016 11:32:12 Type: QC
Method: BC042316 Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	122000.	2426.	1209.	9834.	1003.	121700.
Stddev	314.	7.	2.	8.	3.	205.
%RSD	.2571	.2970	.1689	.0841	.3443	.1680

#1	121700.	2421.	1209.	9837.	998.9	121800.
#2	122300.	2423.	1207.	9840.	1003.	121500.
#3	122100.	2434.	1211.	9824.	1006.	121900.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1216.	2428.	4964.	12280.	98340.	48750.
Stddev	1.	2.	10.	12.	182.	74.
%RSD	.0758	.0868	.2022	.0939	.1852	.1517

#1	1216.	2427.	4963.	12290.	98530.	48670.
#2	1217.	2431.	4954.	12300.	98170.	48810.
#3	1215.	2427.	4974.	12270.	98320.	48780.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	121300.	5045.	123700.	2451.	7284.	971.6
Stddev	190.	5.	40.	3.	8.	3.7
%RSD	.1566	.0998	.0327	.1188	.1064	.3853

#1	121500.	5048.	123700.	2450.	7283.	967.3
#2	121100.	5039.	123600.	2454.	7292.	974.1
#3	121300.	5048.	123700.	2448.	7276.	973.4

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: ICV Acquired: 4/23/2016 11:32:12 Type: QC
Method: BC042316 Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2404.	2452.	2461.	2432.	915.4	2385.
Stddev	6.	2.	2.	5.	.8	3.
%RSD	.2349	.0797	.0672	.2256	.0832	.1095
#1	2398.	2450.	2462.	2427.	916.2	2387.
#2	2410.	2451.	2460.	2438.	915.2	2385.
#3	2404.	2454.	2463.	2432.	914.7	2382.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	964.5	4996.	9991.	9224.
Stddev	.8	9.	4.	72.
%RSD	.0822	.1875	.0393	.7765
#1	963.6	4986.	9995.	9143.
#2	964.6	5005.	9990.	9252.
#3	965.2	4995.	9987.	9278.

Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	1841.6	13324.	2809.1
Stddev	2.5	63.	14.6
%RSD	.13441	.47346	.51926
#1	1839.2	13251.	2792.6
#2	1841.5	13356.	2814.6
#3	1844.1	13365.	2820.2

Sample Name: ICB Acquired: 4/23/2016 11:35:39 Type: QC
Method: BC042316 Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	18.49	.2738	-.2131	2.066	.2679	-1.148
Stddev	8.89	3.200	.1335	2.840	.1286	11.40
%RSD	48.07	1169.	62.62	137.5	48.02	992.9

#1	27.35	1.506	-.0705	5.323	.3503	11.29
#2	18.54	2.675	-.3349	.1024	.3337	-3.655
#3	9.574	-3.360	-.2340	.7727	.1197	-11.08

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.3171	.6097	.5741	1.010	10.08	42.69
Stddev	.3931	.5580	.8906	1.248	9.55	22.44
%RSD	124.0	91.53	155.1	123.6	94.80	52.56

#1	.7692	1.248	1.441	2.445	20.18	59.49
#2	.0567	.2152	.6191	.1796	8.846	51.37
#3	.1252	.3656	-.3381	.4047	1.198	17.21

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	12.05	.4349	60.77	.6404	1.701	-.0846
Stddev	15.09	.5265	29.05	1.042	2.409	1.977
%RSD	125.3	121.0	47.80	162.7	141.6	2338.

#1	29.16	1.042	89.22	1.765	4.477	-1.115
#2	6.305	.1503	61.93	-.2920	.4563	-1.333
#3	.6714	.1121	31.16	.4482	.1691	2.194

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: ICB Acquired: 4/23/2016 11:35:39 Type: QC
Method: BC042316 Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.1378	4.628	.3312	.5704	3.640	2.729
Stddev	1.346	2.050	.2386	.7712	.886	.385
%RSD	977.2	44.30	72.05	135.2	24.35	14.11
#1	-1.550	2.966	.4063	1.460	4.555	3.137
#2	.0056	3.998	.5232	.0900	3.580	2.372
#3	1.131	6.919	.0640	.1613	2.786	2.678

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.5671	.7810	2.385	1.725
Stddev	.4139	.5560	1.047	16.56
%RSD	72.99	71.19	43.88	959.9
#1	.0892	1.272	3.592	17.70
#2	.8013	.8931	1.723	2.829
#3	.8108	.1774	1.840	-15.36

Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2006.5	14017.	2912.9
Stddev	9.8	55.	35.6
%RSD	.48823	.39118	1.2205
#1	2001.9	13970.	2884.7
#2	2000.0	14003.	2952.8
#3	2017.8	14077.	2901.2

Sample Name: ICVL Acquired: 4/23/2016 11:39:30 Type: QC
Method: BC042316 Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	186.6	12.10	8.846	181.4	1.779	4640.
Stddev	9.2	1.14	.382	.9	.084	17.
%RSD	4.928	9.457	4.314	.5070	4.697	.3668

#1	195.1	12.72	8.549	181.5	1.775	4656.
#2	176.8	12.79	8.714	182.2	1.698	4641.
#3	187.8	10.78	9.277	180.4	1.865	4622.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.654	46.11	10.19	23.47	190.4	4429.
Stddev	.191	.30	.55	.33	8.2	14.
%RSD	5.218	.6471	5.443	1.401	4.315	.3251

#1	3.562	46.39	10.03	23.10	190.8	4422.
#2	3.873	46.14	10.81	23.56	198.3	4420.
#3	3.526	45.79	9.731	23.74	181.9	4446.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4510.	15.26	4497.	37.09	10.17	17.38
Stddev	10.	.16	4.	.09	.53	1.31
%RSD	.2139	1.077	.0953	.2355	5.259	7.535

#1	4503.	15.12	4502.	36.99	9.575	17.79
#2	4521.	15.44	4498.	37.16	10.30	18.43
#3	4507.	15.23	4493.	37.10	10.62	15.91

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: ICVL Acquired: 4/23/2016 11:39:30 Type: QC
Method: BC042316 Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	19.08	20.78	47.06	30.89	47.08	17.86
Stddev	.81	.17	.41	.12	.35	.10
%RSD	4.269	.8238	.8810	.3757	.7496	.5517

#1	19.43	20.79	46.59	30.75	47.48	17.94
#2	18.15	20.95	47.22	30.94	46.88	17.89
#3	19.66	20.61	47.38	30.97	46.86	17.75

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	43.33	18.91	20.23	F 11.99
Stddev	.32	.20	.31	7.04
%RSD	.7467	1.051	1.548	58.75

#1	43.07	18.68	19.88	12.36
#2	43.69	19.04	20.49	18.84
#3	43.22	19.01	20.33	4.767

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				200.0
Range				-30.50%

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2006.9	14057.	2962.5
Stddev	9.1	12.	27.7
%RSD	.45175	.08650	.93424

#1	2017.3	14043.	2953.0
#2	2002.9	14065.	2993.7
#3	2000.5	14063.	2940.9

Sample Name: IC5A 4305572 Acquired: 4/23/2016 11:43:18 Type: QC
Method: BC042316 Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	493500.	-4.577	-1.415	-2.320	-.1233	494100.
Stddev	2668.	2.125	.356	.174	.0636	4222.
%RSD	.5407	46.43	25.17	7.503	51.58	.8545

#1	495900.	-3.802	-1.015	-2.315	-.1734	492100.
#2	493900.	-2.949	-1.697	-2.496	-.1448	491300.
#3	490600.	-6.981	-1.533	-2.148	-.0517	499000.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.3723	-3.238	-3.290	.1752	195800.	-9.006
Stddev	.2725	.156	.800	.1364	877.	49.81
%RSD	73.20	4.826	24.33	77.84	.4479	553.1

#1	-.4210	-3.265	-3.892	.3248	195600.	-43.83
#2	-.0787	-3.069	-3.596	.0578	195100.	48.05
#3	-.6171	-3.378	-2.382	.1431	196800.	-31.24

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	505000.	-1.688	43.07	.2659	1.523	1.133
Stddev	2992.	.075	20.75	.5921	2.242	.908
%RSD	.5924	4.423	48.18	222.7	147.2	80.18

#1	503200.	-1.656	20.41	.9495	2.963	.5000
#2	503400.	-1.634	61.15	-.0739	2.665	2.173
#3	508500.	-1.773	47.66	-.0780	-1.060	.7248

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: IC5A 4305572 Acquired: 4/23/2016 11:43:18 Type: QC
Method: BC042316 Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-0.8848	1.920	-1.978	-1.929	-3.204	1.409
Stddev	3.553	.626	.264	.155	.785	.290
%RSD	401.6	32.59	13.34	8.049	24.51	20.60
#1	2.338	2.092	-1.774	-1.765	-4.107	1.611
#2	-4.694	1.226	-1.885	-2.074	-2.681	1.540
#3	-2.983	2.441	-2.276	-1.948	-2.824	1.077

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.9542	-.9853	-2.095	-.0642
Stddev	.9788	.1048	.154	20.21
%RSD	102.6	10.63	7.360	31500.
#1	-0.0782	-0.9183	-1.999	-6.787
#2	1.869	-0.9315	-2.273	22.65
#3	1.072	-1.106	-2.013	-16.06

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	1791.1	12568.	2775.3
Stddev	11.4	123.	20.9
%RSD	.63530	.98040	.75234
#1	1803.4	12624.	2761.8
#2	1780.9	12654.	2799.4
#3	1788.9	12427.	2764.8

Sample Name: ICSAB 4305680 Acquired: 4/23/2016 11:47:21 Type: QC
Method: BC042316 Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	507700.	88.77	102.3	96.73	101.6	499700.
Stddev	1096.	2.50	.9	.71	.3	3540.
%RSD	.2159	2.810	.9100	.7363	.3423	.7085
#1	507000.	89.67	103.0	96.00	101.2	495900.
#2	507100.	90.68	101.3	97.43	101.8	502900.
#3	508900.	85.95	102.7	96.77	101.8	500300.

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	92.72	90.97	97.81	107.4	198100.	10350.
Stddev	.92	.70	.13	.4	659.	11.
%RSD	.9958	.7718	.1366	.3898	.3324	.1075
#1	91.77	90.16	97.69	107.4	197400.	10340.
#2	93.61	91.37	97.78	107.8	198400.	10360.
#3	92.80	91.39	97.96	107.0	198700.	10360.

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	511800.	102.2	10640.	91.95	96.17	97.93
Stddev	2103.	.5	20.	2.92	3.40	1.55
%RSD	.4110	.4711	.1872	3.177	3.532	1.581
#1	509400.	101.7	10630.	88.60	92.25	97.69
#2	512500.	102.4	10630.	93.94	98.32	99.58
#3	513400.	102.6	10660.	93.30	97.93	96.51

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Sample Name: ICSAB 4305680 Acquired: 4/23/2016 11:47:21 Type: QC
Method: BC042316 Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	89.63	96.05	98.97	90.75	86.54	92.38
Stddev	4.29	6.73	.51	1.51	1.21	.88
%RSD	4.785	7.003	.5169	1.660	1.402	.9547
#1	86.32	88.89	98.70	89.20	85.78	91.56
#2	94.47	97.02	98.64	92.20	87.94	93.31
#3	88.09	102.2	99.56	90.84	85.90	92.25

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	93.19	101.4	102.4	96.77
Stddev	.68	.3	.3	17.51
%RSD	.7285	.2526	.2576	18.09
#1	92.62	101.5	102.2	115.6
#2	93.01	101.1	102.4	93.80
#3	93.94	101.6	102.7	80.93

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	1793.0	12465.	2672.3
Stddev	22.0	98.	19.8
%RSD	1.2251	.78660	.74169
#1	1818.3	12570.	2691.1
#2	1781.9	12450.	2674.1
#3	1778.7	12376.	2651.6

Sample Name: INT-10A 4154117 Acquired: 4/23/2016 11:51:16 Type: QC
Method: BC042316 Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	172.7	1.832	-8857	2.519	.4574	43.22
Stddev	162.8	.845	.5587	.054	.1228	45.45
%RSD	94.27	46.10	63.08	2.156	26.85	105.2
#1	84.85	2.380	-1.521	2.492	.3312	22.53
#2	360.6	2.256	-.4710	2.483	.5765	95.34
#3	72.71	.8595	-.6651	2.581	.4643	11.80

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.3495	10160.	.0221	5.462	-120.7	6.709
Stddev	.0532	20.	.2031	.326	40.6	25.79
%RSD	15.22	.1977	919.5	5.969	33.64	384.4
#1	-.4107	10160.	-.0207	5.462	-117.3	6.453
#2	-.3141	10180.	.2432	5.789	-81.97	32.62
#3	-.3237	10140.	-.1562	5.137	-163.0	-18.95

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	37.91	-.1243	113.1	-2.950	-4.753	-4.981
Stddev	43.04	.0891	4.0	.178	.845	1.286
%RSD	113.5	71.65	3.544	6.047	17.78	25.82
#1	24.78	-.0743	112.9	-3.155	-3.777	-5.705
#2	85.99	-.0715	117.2	-2.842	-5.214	-5.742
#3	2.971	-.2272	109.1	-2.852	-5.266	-3.496

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: INT-10A 4154117 Acquired: 4/23/2016 11:51:16 Type: QC
Method: BC042316 Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.660	-9.840	5100.	1.003	-3.663	-1.155
Stddev	2.500	.998	30.	.070	1.467	.198
%RSD	93.98	10.14	.5966	6.994	40.05	17.15

#1	-4.942	-10.99	5065.	.9977	-2.116	-1.293
#2	.0115	-9.239	5115.	1.075	-3.838	-1.244
#3	-3.049	-9.289	5120.	.9352	-5.034	-.9282

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	9693.	9912.	.6423	9948.
Stddev	34.	21.	.2909	68.
%RSD	.3482	.2079	45.30	.6844

#1	9655.	9900.	.3198	9916.
#2	9718.	9899.	.7221	10030.
#3	9706.	9935.	.8850	9902.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	1947.7	13593.	2875.8
Stddev	15.0	302.	56.1
%RSD	.76805	2.2226	1.9502

#1	1963.7	13913.	2921.1
#2	1945.4	13553.	2893.2
#3	1934.0	13313.	2813.0

Sample Name: INT-10B 4154119 Acquired: 4/23/2016 11:55:12 Type: QC
Method: BC042316 Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.207	13.32	-.0234	-.5496	-6.039	.5867
Stddev	12.79	.27	.4599	.2439	.147	50.04
%RSD	579.7	1.991	1962.	44.38	2.428	8530.
#1	9.446	13.43	-.4747	-.8313	-6.174	58.35
#2	-.1684	13.02	-.0402	-.4053	-6.061	-29.65
#3	-15.90	13.52	.4446	-.4123	-5.883	-26.94

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.4669	-1.520	10420.	9863.	1.385	14.59
Stddev	.0612	.300	45.	15.	13.50	27.73
%RSD	13.12	19.74	.4305	.1544	974.8	190.1
#1	-.3986	-1.215	10430.	9845.	16.97	-16.65
#2	-.4851	-1.531	10460.	9870.	-6.051	24.13
#3	-.5169	-1.815	10370.	9873.	-6.767	36.30

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	22.95	10430.	30.22	10890.	-16.09	F -82.03
Stddev	56.60	108.	1.70	30.	.13	.40
%RSD	246.6	1.031	5.636	.2769	.8050	.4859
#1	88.27	10540.	31.98	10920.	-16.05	-82.08
#2	-11.66	10320.	28.58	10900.	-15.98	-81.61
#3	-7.764	10430.	30.09	10860.	-16.23	-82.40

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						40.00
Low Limit						-40.00

Sample Name: INT-10B 4154119 Acquired: 4/23/2016 11:55:12 Type: QC
Method: BC042316 Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-6.143	-5.923	9.277	-3.327	10.77	5051.
Stddev	.662	2.811	3.107	.193	.46	11.
%RSD	10.78	47.46	33.49	5.806	4.307	.2207
#1	-5.494	-8.482	12.84	-3.247	11.31	5057.
#2	-6.116	-2.914	7.124	-3.186	10.46	5058.
#3	-6.817	-6.372	7.867	-3.547	10.55	5038.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	7.839	.6154	10190.	4.535
Stddev	1.029	.2261	52.	19.26
%RSD	13.12	36.75	.5104	424.7
#1	7.913	.8592	10210.	14.40
#2	8.829	.5744	10230.	-17.66
#3	6.775	.4125	10130.	16.86

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	1827.6	13682.	2857.5
Stddev	20.4	176.	48.3
%RSD	1.1165	1.2849	1.6895
#1	1804.5	13508.	2832.2
#2	1835.3	13678.	2827.2
#3	1843.1	13859.	2913.2

Sample Name: pds 460-112480-a-1-a Acquired: 4/23/2016 11:59:08 Type: Unk
Method: BC042316 Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	72590.	1858.	46.19	2093.	52.85	23020.
Stddev	310.	8.	.65	4.	.45	144.
%RSD	.4270	.4483	1.414	.2070	.8452	.6268

#1	72260.	1854.	45.51	2088.	52.44	22870.
#2	72620.	1867.	46.24	2097.	52.77	23150.
#3	72880.	1853.	46.82	2095.	53.33	23030.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	45.98	513.5	334.6	301.1	132900.	22020.
Stddev	.33	1.9	3.5	1.6	629.	55.
%RSD	.7283	.3610	1.053	.5217	.4729	.2492

#1	46.06	512.8	333.3	301.9	132300.	21980.
#2	46.28	515.6	338.6	302.1	133500.	22000.
#3	45.62	512.2	331.9	299.3	133100.	22090.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	30890.	2105.	19530.	545.2	520.1	467.7
Stddev	130.	8.	63.	2.2	2.0	3.9
%RSD	.4221	.3787	.3209	.3988	.3829	.8441

#1	30740.	2096.	19490.	543.0	522.1	464.3
#2	31000.	2112.	19500.	547.3	520.2	472.0
#3	30920.	2107.	19600.	545.2	518.1	466.9

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: pds 460-112480-a-1-a Acquired: 4/23/2016 11:59:08 Type: Unk
Method: BC042316 Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1826.	1944.	697.7	632.2	438.5	462.9
Stddev	9.	10.	3.5	3.7	2.4	.7
%RSD	.5024	.5188	.4990	.5918	.5582	.1589
#1	1816.	1934.	693.8	635.8	435.7	462.1
#2	1834.	1954.	699.2	632.5	440.3	463.5
#3	1828.	1942.	700.2	628.3	439.4	463.1

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	482.9	521.6	3781.	1852.
Stddev	.7	2.1	12.	28.
%RSD	.1532	.4102	.3193	1.505
#1	482.1	521.8	3767.	1862.
#2	483.0	519.4	3787.	1820.
#3	483.5	523.7	3789.	1873.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	1971.3	13886.	2904.7
Stddev	15.1	101.	29.7
%RSD	.76532	.72466	1.0218
#1	1955.6	13806.	2911.8
#2	1972.5	13852.	2872.1
#3	1985.7	13999.	2930.2

Sample Name: 460-112480-a-1-c ms Acquired: 4/23/2016 12:02:36 Type: Unk
Method: BC042316 Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	76920.	940.5	22.58	1164.	28.50	13660.
Stddev	138.	3.5	.63	3.	.16	86.
%RSD	.1797	.3693	2.775	.2430	.5547	.6332
#1	76840.	937.2	22.62	1161.	28.51	13760.
#2	76850.	944.1	21.94	1164.	28.34	13610.
#3	77080.	940.3	23.19	1166.	28.66	13610.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	22.78	276.3	234.9	181.3	135300.	13820.
Stddev	.29	2.0	1.4	.6	615.	50.
%RSD	1.275	.7404	.5959	.3544	.4549	.3596
#1	22.45	274.7	236.5	180.8	136000.	13760.
#2	22.98	278.6	233.9	182.0	134900.	13830.
#3	22.91	275.5	234.4	181.2	134900.	13860.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	22600.	1806.	9940.	314.0	287.4	130.9
Stddev	134.	6.	10.	1.7	2.0	.6
%RSD	.5938	.3406	.0971	.5331	.7066	.4203
#1	22760.	1813.	9938.	312.4	287.0	131.2
#2	22500.	1803.	9931.	315.7	285.6	131.2
#3	22560.	1803.	9950.	313.9	289.6	130.2

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-112480-a-1-c ms Acquired: 4/23/2016 12:02:36 Type: Unk
Method: BC042316 Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	915.1	995.5	470.3	411.5	216.4	232.2
Stddev	5.8	9.0	1.1	.7	1.9	1.7
%RSD	.6366	.9076	.2278	.1812	.8759	.7207
#1	909.5	985.1	471.5	412.4	214.2	230.2
#2	914.8	999.6	469.4	410.9	217.1	233.0
#3	921.1	1002.	470.2	411.3	217.8	233.2

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	242.7	279.0	3522.	2423.
Stddev	.7	.7	5.	35.
%RSD	.3015	.2402	.1510	1.431
#1	242.4	278.6	3525.	2383.
#2	242.1	278.6	3516.	2442.
#3	243.5	279.8	3524.	2445.

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	1948.0	13621.	2851.3
Stddev	9.8	187.	44.7
%RSD	.50123	1.3704	1.5668
#1	1936.9	13411.	2799.7
#2	1952.1	13681.	2876.8
#3	1955.1	13770.	2877.3

Sample Name: 460-112480-a-1-b du Acquired: 4/23/2016 12:06:11 Type: Unk
Method: BC042316 Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	69290.	26.82	-2.113	188.2	2.640	3787.
Stddev	981.	2.82	.501	2.2	.111	49.
%RSD	1.416	10.50	23.69	1.176	4.194	1.297
#1	68290.	23.82	-1.616	186.0	2.513	3746.
#2	69310.	29.40	-2.108	188.2	2.693	3773.
#3	70250.	27.25	-2.617	190.4	2.715	3841.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.433	42.15	130.3	58.39	132900.	3982.
Stddev	.230	.65	1.1	.75	1444.	68.
%RSD	16.05	1.553	.8060	1.291	1.086	1.705
#1	-1.698	41.43	129.5	57.99	131600.	3951.
#2	-1.318	42.34	129.9	57.93	132700.	3934.
#3	-1.284	42.70	131.5	59.26	134400.	4059.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	12110.	1870.	129.8	65.44	42.23	1.337
Stddev	122.	25.	5.2	.91	.50	.653
%RSD	1.010	1.324	4.002	1.383	1.187	48.83
#1	12010.	1847.	123.8	64.41	42.64	.8039
#2	12090.	1868.	132.5	65.80	41.67	2.066
#3	12250.	1896.	133.1	66.11	42.39	1.143

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-112480-a-1-b du Acquired: 4/23/2016 12:06:11 Type: Unk
Method: BC042316 Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.864	3.787	207.3	164.0	1.951	3.240
Stddev	2.287	.758	3.4	1.7	.206	.034
%RSD	122.7	20.02	1.641	1.016	10.55	1.043
#1	.7728	2.940	203.6	162.3	1.845	3.239
#2	-3.063	4.019	208.0	163.9	1.820	3.274
#3	-3.301	4.402	210.3	165.6	2.188	3.206

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	10.63	25.19	3107.	1693.
Stddev	.26	.22	41.	56.
%RSD	2.471	.8746	1.329	3.303
#1	10.45	25.00	3065.	1639.
#2	10.51	25.14	3108.	1690.
#3	10.93	25.43	3148.	1751.

Check ? Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	1984.4	13973.	2889.4
Stddev	14.7	132.	61.4
%RSD	.74067	.94458	2.1237
#1	1967.7	13820.	2862.1
#2	1995.4	14042.	2846.5
#3	1990.1	14056.	2959.7

Sample Name: 460-112480-a-1-a@4 Acquired: 4/23/2016 12:09:51 Type: Unk
Method: BC042316 Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	87270.	34.82	-2.373	235.0	3.236	4740.
Stddev	69.	2.52	.184	.3	.162	52.
%RSD	.0789	7.234	7.771	.1282	5.009	1.104
#1	87260.	37.59	-2.397	234.7	3.354	4733.
#2	87350.	32.68	-2.543	235.3	3.051	4796.
#3	87210.	34.18	-2.177	235.1	3.302	4692.

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.918	49.10	166.3	69.17	165100.	5300.
Stddev	.180	.39	1.8	.21	1540.	23.
%RSD	9.370	.7864	1.096	.3079	.9326	.4407
#1	-1.892	48.77	165.8	68.94	165100.	5283.
#2	-2.109	49.52	168.4	69.35	166700.	5326.
#3	-1.753	49.00	164.9	69.24	163600.	5290.

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	15210.	2003.	150.3	78.04	54.49	2.452
Stddev	199.	16.	3.8	.47	1.34	.945
%RSD	1.307	.7922	2.553	.5994	2.460	38.55
#1	15220.	2002.	148.9	77.87	54.87	3.544
#2	15400.	2019.	147.3	78.57	55.60	1.904
#3	15000.	1987.	154.6	77.69	53.00	1.910

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Sample Name: 460-112480-a-1-a@4 Acquired: 4/23/2016 12:09:51 Type: Unk
Method: BC042316 Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.977	4.736	260.2	191.5	2.148	3.812
Stddev	.335	1.869	1.2	2.1	.643	.333
%RSD	16.96	39.46	.4546	1.100	29.95	8.741
#1	-1.815	2.829	259.7	191.6	1.407	3.595
#2	-2.363	6.564	261.5	193.6	2.475	3.645
#3	-1.754	4.815	259.3	189.4	2.562	4.196

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	13.89	31.19	4063.	2191.
Stddev	.50	.09	11.	11.
%RSD	3.593	.2972	.2817	.5115
#1	13.58	31.09	4066.	2179.
#2	14.46	31.22	4073.	2202.
#3	13.61	31.27	4050.	2192.

Check ? Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2001.7	13950.	2870.7
Stddev	38.3	375.	26.9
%RSD	1.9151	2.6863	.93653
#1	1982.7	13807.	2862.0
#2	1976.6	13668.	2849.2
#3	2045.9	14375.	2900.8

Sample Name: sd 460-112480-a-1-a Acquired: 4/23/2016 12:13:32 Type: Unk
Method: BC042316 Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	16810.	5.762	-9288	46.08	.6599	930.0
Stddev	152.	.532	.3491	.21	.0881	4.5
%RSD	.9022	9.234	37.58	.4634	13.35	.4872
#1	16930.	5.561	-1.326	45.92	.7436	935.2
#2	16850.	6.365	-.6725	46.32	.5680	926.6
#3	16640.	5.359	-.7874	46.01	.6682	928.3

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.4903	9.812	32.00	13.86	32530.	1031.
Stddev	.0207	.116	.20	.64	97.	23.
%RSD	4.228	1.182	.6216	4.623	.2994	2.274
#1	-.5138	9.943	32.03	14.25	32610.	1052.
#2	-.4747	9.772	31.78	14.21	32550.	1006.
#3	-.4825	9.722	32.18	13.12	32420.	1037.

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3052.	395.9	44.00	14.94	11.66	-.7728
Stddev	13.	1.3	.97	.39	1.35	2.309
%RSD	.4374	.3201	2.194	2.587	11.54	298.7
#1	3036.	397.3	43.26	14.64	12.44	1.651
#2	3060.	395.3	43.64	14.81	12.43	-2.946
#3	3058.	395.0	45.09	15.38	10.10	-1.023

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Sample Name: sd 460-112480-a-1-a Acquired: 4/23/2016 12:13:32 Type: Unk
Method: BC042316 Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.828	2.055	50.90	41.44	.4082	.3934
Stddev	1.524	1.563	.53	.08	.4209	.2800
%RSD	83.41	76.05	1.035	.1917	103.1	71.18
#1	-1.389	3.448	50.61	41.38	.0145	.0736
#2	-.5702	.3649	51.51	41.53	.8518	.5947
#3	-3.523	2.352	50.57	41.40	.3584	.5119

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	2.601	6.087	791.9	441.9
Stddev	.627	.064	2.4	25.5
%RSD	24.12	1.045	.3053	5.774
#1	2.990	6.143	794.5	464.4
#2	2.936	6.099	791.3	414.2
#3	1.877	6.018	789.8	447.1

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	1973.5	13842.	2945.3
Stddev	6.9	33.	17.8
%RSD	.35201	.23523	.60267
#1	1965.7	13806.	2948.4
#2	1975.9	13850.	2926.1
#3	1979.0	13870.	2961.2

Sample Name: lcssrm 460-364053/2- Acquired: 4/23/2016 12:17:18 Type: QC
Method: BC042316 Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	37140.	721.3	154.8	1073.	517.9	28960.
Stddev	286.	3.1	.5	4.	1.9	319.
%RSD	.7700	.4232	.3295	.3848	.3665	1.100

#1	36810.	723.6	154.4	1075.	515.8	28600.
#2	37280.	717.8	155.4	1068.	519.4	29210.
#3	37340.	722.6	154.5	1076.	518.5	29060.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	448.7	800.1	755.9	897.5	77670.	11680.
Stddev	1.3	1.0	5.3	3.3	676.	54.
%RSD	.2852	.1295	.7053	.3676	.8705	.4597

#1	447.9	799.3	750.2	901.0	76920.	11620.
#2	448.1	799.7	760.8	897.1	78250.	11720.
#3	450.2	801.3	756.8	894.4	77830.	11700.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	12930.	1720.	4328.	694.0	754.3	410.9
Stddev	157.	12.	27.	1.8	4.7	2.0
%RSD	1.212	.6740	.6347	.2556	.6269	.4826

#1	12750.	1708.	4296.	693.6	753.3	413.1
#2	13030.	1730.	4339.	692.5	750.1	409.2
#3	13010.	1723.	4348.	696.0	759.4	410.4

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: lcssrm 460-364053/2- Acquired: 4/23/2016 12:17:18 Type: QC
Method: BC042316 Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	865.6	762.0	589.8	1013.	577.3	578.3
Stddev	2.9	4.7	2.4	6.	1.6	2.8
%RSD	.3337	.6228	.4085	.6329	.2779	.4915
#1	868.8	758.6	587.8	1006.	577.8	578.2
#2	863.1	760.0	592.5	1013.	575.5	575.6
#3	864.9	767.4	589.0	1019.	578.6	581.2

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	743.4	542.6	1622.	2258.
Stddev	3.4	1.6	3.	39.
%RSD	.4626	.2968	.2091	1.707
#1	740.1	540.9	1618.	2287.
#2	743.1	542.7	1625.	2214.
#3	747.0	544.1	1622.	2273.

Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2020.4	14289.	2945.0
Stddev	5.3	177.	71.1
%RSD	.26152	1.2353	2.4147
#1	2016.7	14439.	3021.1
#2	2026.4	14095.	2880.1
#3	2018.0	14335.	2933.9

Sample Name: CCV Acquired: 4/23/2016 12:20:49 Type: QC
Method: BC042316 Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	127300.	2534.	1261.	10350.	1035.	127100.
Stddev	621.	10.	4.	26.	7.	664.
%RSD	.4875	.3756	.3324	.2505	.6525	.5225

#1	127900.	2531.	1264.	10360.	1040.	127600.
#2	126700.	2544.	1264.	10370.	1027.	127400.
#3	127400.	2525.	1257.	10320.	1037.	126400.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1282.	2548.	5141.	12830.	103100.	51220.
Stddev	6.	7.	23.	33.	504.	223.
%RSD	.4386	.2807	.4465	.2584	.4893	.4348

#1	1286.	2551.	5155.	12810.	103400.	51410.
#2	1283.	2554.	5154.	12870.	103300.	50970.
#3	1275.	2540.	5115.	12810.	102500.	51270.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	128000.	5275.	130000.	2571.	7682.	1012.
Stddev	562.	19.	813.	10.	34.	5.
%RSD	.4394	.3638	.6253	.3931	.4411	.5398

#1	128400.	5289.	130800.	2576.	7715.	1007.
#2	128200.	5284.	129200.	2578.	7684.	1017.
#3	127400.	5253.	129900.	2560.	7647.	1011.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCV Acquired: 4/23/2016 12:20:49 Type: QC
Method: BC042316 Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2521.	2555.	2575.	2553.	967.5	2512.
Stddev	7.	8.	9.	20.	5.6	7.
%RSD	.2903	.3311	.3539	.7665	.5741	.2611

#1	2522.	2561.	2579.	2574.	962.5	2512.
#2	2528.	2559.	2582.	2550.	973.5	2519.
#3	2513.	2545.	2565.	2535.	966.4	2505.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	1012.	5240.	10440.	9717.
Stddev	4.	21.	30.	26.
%RSD	.4221	.4008	.2851	.2689

#1	1014.	5252.	10450.	9689.
#2	1015.	5216.	10460.	9740.
#3	1007.	5253.	10410.	9722.

Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	1763.4	12860.	2711.9
Stddev	9.6	79.	38.6
%RSD	.54404	.61338	1.4218

#1	1754.5	12818.	2667.4
#2	1762.0	12811.	2735.8
#3	1773.6	12951.	2732.4

Sample Name: CCB Acquired: 4/23/2016 12:24:13 Type: QC
Method: BC042316 Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.8465	.9077	-.4361	.3429	.0960	5.461
Stddev	5.275	1.407	.5290	.1711	.0774	4.945
%RSD	623.2	155.0	121.3	49.92	80.66	90.56
#1	4.026	.1171	-.9696	.5257	.0705	-.2280
#2	-6.449	2.532	-.4269	.3163	.1830	7.876
#3	-.1169	.0739	.0882	.1865	.0345	8.734

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.0113	-.0370	.7808	1.435	9.849	-18.05
Stddev	.1195	.1418	.0298	.650	9.283	18.19
%RSD	1057.	383.4	3.811	45.31	94.26	100.8
#1	.0965	-.1199	.8105	1.692	5.579	-21.05
#2	.0626	-.1178	.7510	1.918	20.50	-34.55
#3	-.1253	.1268	.7809	.6959	3.468	1.463

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.608	.1327	25.89	.1324	.7469	.1813
Stddev	5.203	.1416	16.58	.5669	.7379	2.601
%RSD	199.5	106.7	64.05	428.2	98.80	1435.
#1	3.777	.2575	40.68	.7013	1.249	-1.526
#2	7.128	.1618	29.03	-.4324	-.1003	3.175
#3	-3.080	-.0211	7.962	.1282	1.092	-1.105

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: CCB Acquired: 4/23/2016 12:24:13 Type: QC
Method: BC042316 Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.907	1.465	.2096	-.0517	1.664	1.744
Stddev	1.936	1.142	.2213	.1617	1.555	.316
%RSD	66.61	77.95	105.6	313.1	93.45	18.10
#1	4.679	2.783	.0309	.1242	3.402	1.495
#2	.8403	.7622	.4572	-.1940	1.185	2.099
#3	3.202	.8505	.1408	-.0852	.4044	1.639

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	-.1189	.2354	1.699	.5841
Stddev	.1689	.1671	.173	8.396
%RSD	142.1	70.97	10.18	1437.
#1	-.2470	.4016	1.563	-3.242
#2	.0725	.2372	1.893	10.21
#3	-.1823	.0675	1.639	-5.216

Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	1922.6	13134.	2732.1
Stddev	5.8	382.	66.3
%RSD	.30164	2.9048	2.4256
#1	1916.0	13287.	2656.1
#2	1925.3	12700.	2777.8
#3	1926.6	13415.	2762.4

Sample Name: CCVL Acquired: 4/23/2016 12:28:03 Type: QC
Method: BC042316 Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	193.4	12.19	8.603	184.2	1.874	4675.
Stddev	6.2	2.84	.460	.4	.090	10.
%RSD	3.180	23.32	5.345	.2441	4.783	.2124

#1	196.6	11.49	8.274	184.1	1.775	4686.
#2	197.3	15.32	9.128	184.6	1.949	4673.
#3	186.3	9.764	8.407	183.8	1.899	4666.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.796	46.32	9.605	23.86	180.5	4494.
Stddev	.029	.17	.540	.58	.4	6.
%RSD	.7606	.3602	5.626	2.451	.2130	.1326

#1	3.785	46.20	9.738	23.28	180.6	4489.
#2	3.829	46.51	9.010	24.45	180.7	4493.
#3	3.775	46.25	10.07	23.86	180.0	4501.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4557.	15.25	4549.	38.09	11.14	18.00
Stddev	17.	.05	15.	.49	.19	.27
%RSD	.3761	.3157	.3308	1.290	1.728	1.478

#1	4538.	15.20	4566.	37.84	10.92	18.12
#2	4570.	15.26	4546.	38.65	11.26	17.69
#3	4563.	15.30	4536.	37.76	11.24	18.18

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCVL Acquired: 4/23/2016 12:28:03 Type: QC
Method: BC042316 Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	16.09	20.25	47.13	31.63	47.02	17.40
Stddev	.76	1.50	.17	.30	.51	.20
%RSD	4.729	7.422	.3677	.9485	1.095	1.152

#1	16.97	21.40	47.14	31.57	47.22	17.35
#2	15.70	20.80	46.95	31.37	47.41	17.24
#3	15.60	18.55	47.30	31.96	46.44	17.63

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	44.75	19.20	20.17	F 8.339
Stddev	.56	.08	.12	20.41
%RSD	1.243	.4381	.6091	244.8

#1	44.74	19.30	20.10	-2.172
#2	45.31	19.13	20.31	-4.675
#3	44.19	19.18	20.09	31.86

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				200.0
Range				-30.50%

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	1920.0	13549.	2830.9
Stddev	15.7	40.	16.4
%RSD	.81992	.29418	.58011

#1	1931.9	13556.	2812.0
#2	1925.9	13585.	2841.3
#3	1902.1	13506.	2839.4

Sample Name: mb 460-364053/1-a@2 Acquired: 4/23/2016 12:31:49 Type: QC
Method: BC042316 Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.215	-1.709	-.3948	-.1421	.0965	2.164
Stddev	16.92	.671	.7606	.0835	.0259	3.997
%RSD	401.4	39.29	192.6	58.73	26.85	184.7
#1	-2.344	-1.788	-.8588	-.0934	.0815	4.240
#2	23.43	-1.001	-.8087	-.0945	.1265	-2.443
#3	-8.442	-2.337	.4830	-.2385	.0817	4.697

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.0783	.1393	.0701	1.282	-.7130	-14.50
Stddev	.0996	.2324	.1789	.270	5.003	39.64
%RSD	127.3	166.9	255.2	21.02	701.6	273.3
#1	.1933	.3890	.1234	1.297	-6.399	-49.44
#2	.0179	.0994	.2163	1.006	1.248	-22.64
#3	.0237	-.0707	-.1294	1.544	3.012	28.57

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.5442	-.0093	1.240	.4921	.7917	-.0185
Stddev	5.609	.0304	4.478	.1938	1.193	1.197
%RSD	1031.	328.2	361.1	39.37	150.7	6489.
#1	6.497	.0039	-3.751	.3076	-.2999	-1.229
#2	-4.641	-.0440	4.905	.4748	.6094	1.165
#3	-.2242	.0124	2.566	.6940	2.066	.0093

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: mb 460-364053/1-a@2 Acquired: 4/23/2016 12:31:49 Type: QC
Method: BC042316 Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.4860	1.143	-.0333	.0858	.4364	.0859
Stddev	.9987	.271	.0730	.0375	.6730	.1926
%RSD	205.5	23.70	219.2	43.67	154.2	224.1
#1	.1152	1.456	.0455	.0488	.6484	-.1318
#2	.0657	1.003	-.0469	.1238	.9777	.2340
#3	-1.639	.9715	-.0986	.0849	-.3171	.1555

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.7372	.0892	.1421	12.91
Stddev	.5099	.1034	.1871	7.29
%RSD	69.17	115.9	131.7	56.42
#1	.3447	.2077	-.0590	4.801
#2	.5533	.0177	.3110	15.05
#3	1.313	.0422	.1744	18.90

Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	1907.1	13441.	2837.0
Stddev	22.4	70.	21.2
%RSD	1.1760	.51802	.74882
#1	1920.8	13484.	2818.8
#2	1919.4	13477.	2860.4
#3	1881.2	13360.	2831.8

Sample Name: 460-112518-a-1-a@4 Acquired: 4/23/2016 12:35:39 Type: Unk
Method: BC042316 Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	26230.	18.28	-1.642	282.0	1.138	4831.
Stddev	90.	1.25	.386	1.4	.042	33.
%RSD	.3421	6.828	23.49	.4866	3.666	.6924
#1	26330.	16.88	-1.308	283.6	1.111	4857.
#2	26220.	19.27	-2.064	281.2	1.118	4842.
#3	26150.	18.68	-1.555	281.3	1.186	4793.

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.809	18.41	41.30	704.3	49860.	1086.
Stddev	.113	.12	.53	2.4	303.	22.
%RSD	6.237	.6539	1.295	.3340	.6069	2.005
#1	1.745	18.54	41.41	703.2	50120.	1090.
#2	1.744	18.39	41.77	707.0	49940.	1062.
#3	1.940	18.30	40.72	702.6	49530.	1105.

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3771.	1620.	101.1	60.19	2564.	-1.076
Stddev	23.	7.	6.6	.08	6.	2.247
%RSD	.6143	.4394	6.538	.1389	.2178	208.9
#1	3755.	1627.	96.29	60.18	2562.	1.518
#2	3797.	1620.	98.29	60.11	2559.	-2.306
#3	3759.	1613.	108.6	60.28	2570.	-2.438

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Sample Name: 460-112518-a-1-a@4 Acquired: 4/23/2016 12:35:39 Type: Unk
Method: BC042316 Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-6098	-.2932	58.74	986.7	1.060	1.175
Stddev	2.702	1.272	.07	6.8	.215	.217
%RSD	443.0	433.6	.1173	.6883	20.26	18.45
#1	2.180	-.2449	58.76	993.9	.9031	1.070
#2	-.7955	.9534	58.79	980.3	1.305	1.424
#3	-3.214	-1.588	58.66	986.0	.9718	1.030

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	27.01	34.06	839.9	1179.
Stddev	.28	.18	3.5	18.
%RSD	1.041	.5214	.4134	1.492
#1	27.29	34.12	842.6	1161.
#2	27.03	34.20	841.2	1179.
#3	26.73	33.86	836.0	1196.

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	1999.5	14118.	2979.8
Stddev	22.0	228.	83.6
%RSD	1.1016	1.6126	2.8044
#1	1974.2	13876.	2884.3
#2	2014.0	14149.	3015.7
#3	2010.3	14328.	3039.5

Sample Name: 460-112556-a-12-d@4 Acquired: 4/23/2016 12:39:20 Type: Unk
Method: BC042316 Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	23630.	61.01	-1.101	138.4	1.792	4239.
Stddev	19.	2.65	.594	1.0	.106	35.
%RSD	.0810	4.343	53.96	.7273	5.891	.8186
#1	23640.	59.56	-1.364	139.6	1.714	4200.
#2	23650.	59.40	-1.517	137.9	1.750	4248.
#3	23610.	64.07	-.4205	137.8	1.912	4268.

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.7754	30.83	101.4	110.9	125600.	4456.
Stddev	.3109	.23	1.0	.4	430.	19.
%RSD	40.10	.7355	.9815	.3991	.3421	.4358
#1	-.4246	31.08	100.7	111.3	125200.	4478.
#2	-.8846	30.76	100.9	111.1	125400.	4449.
#3	-1.017	30.65	102.5	110.4	126000.	4441.

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	9421.	852.3	1037.	112.2	64.71	4.334
Stddev	51.	3.4	5.	.2	4.91	.282
%RSD	.5454	.4033	.4747	.2020	7.591	6.511
#1	9467.	849.2	1042.	112.5	70.34	4.325
#2	9365.	851.6	1032.	112.1	61.29	4.057
#3	9430.	856.0	1037.	112.1	62.51	4.621

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Sample Name: 460-112556-a-12-d@4 Acquired: 4/23/2016 12:39:20 Type: Unk
Method: BC042316 Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.3907	5.938	307.8	272.0	33.24	7.110
Stddev	2.084	1.669	2.5	.8	.20	.421
%RSD	533.4	28.11	.8142	.2954	.5937	5.928
#1	- .9832	5.455	305.9	271.1	33.43	7.489
#2	- .6333	7.795	306.9	272.6	33.25	7.185
#3	2.788	4.563	310.6	272.3	33.04	6.656

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	8.628	128.3	732.2	1198.
Stddev	.515	.5	1.1	25.
%RSD	5.964	.4164	.1494	2.099
#1	9.196	128.9	731.0	1170.
#2	8.495	128.3	732.6	1218.
#3	8.193	127.8	733.0	1207.

Check ? Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	1987.1	14050.	2982.3
Stddev	9.0	48.	27.1
%RSD	.45284	.34245	.90856
#1	1976.7	14011.	2971.7
#2	1991.4	14104.	3013.1
#3	1993.1	14036.	2962.1

Sample Name: 460-112560-d-21-a@4 Acquired: 4/23/2016 12:43:00 Type: Unk
Method: BC042316 Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	47720.	32.66	-6056	364.2	1.715	3461.
Stddev	158.	1.18	.8441	1.1	.084	16.
%RSD	.3314	3.612	139.4	.2912	4.889	.4644
#1	47670.	33.79	-.0746	364.1	1.621	3449.
#2	47590.	31.44	-1.579	365.3	1.743	3455.
#3	47900.	32.77	-.1633	363.1	1.782	3479.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	28.45	23.59	87.55	120.5	67650.	2448.
Stddev	.38	.08	.86	.7	81.	23.
%RSD	1.342	.3184	.9793	.6048	.1194	.9376
#1	28.77	23.50	86.56	121.3	67560.	2442.
#2	28.54	23.64	87.99	120.2	67660.	2429.
#3	28.03	23.62	88.10	119.9	67730.	2474.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	7388.	482.5	170.9	53.08	246.4	2.104
Stddev	48.	.9	1.6	.57	1.5	.571
%RSD	.6499	.1924	.9512	1.075	.6278	27.14
#1	7343.	481.7	171.6	52.62	246.7	2.391
#2	7383.	482.3	172.0	52.91	244.7	2.474
#3	7438.	483.5	169.0	53.72	247.8	1.446

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-112560-d-21-a@4 Acquired: 4/23/2016 12:43:00 Type: Unk
Method: BC042316 Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5.216	1.483	119.3	280.9	3.147	2.622
Stddev	2.870	1.715	.8	1.0	.524	.271
%RSD	55.03	115.6	.6311	.3724	16.66	10.33
#1	4.331	1.744	118.5	279.7	2.694	2.536
#2	2.893	3.053	119.6	281.5	3.722	2.925
#3	8.425	-.3469	119.9	281.6	3.026	2.404

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	16.72	26.16	1566.	1516.
Stddev	.63	.07	3.	25.
%RSD	3.739	.2609	.1888	1.649
#1	16.03	26.24	1568.	1495.
#2	16.91	26.14	1567.	1544.
#3	17.23	26.11	1563.	1508.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2124.9	14850.	3144.4
Stddev	7.8	51.	42.7
%RSD	.36725	.34199	1.3581
#1	2120.4	14816.	3158.5
#2	2120.4	14909.	3178.3
#3	2133.9	14826.	3096.5

Sample Name: 460-112564-d-2-a@4 Acquired: 4/23/2016 12:46:40 Type: Unk
Method: BC042316 Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	57560.	25.41	-1.596	259.8	1.177	5994.
Stddev	216.	.52	.111	1.4	.092	37.
%RSD	.3749	2.040	6.927	.5553	7.838	.6254
#1	57800.	24.90	-1.503	259.3	1.282	6022.
#2	57500.	25.39	-1.718	261.5	1.107	6007.
#3	57380.	25.94	-1.566	258.8	1.143	5951.

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.0348	42.71	100.5	75.28	92610.	5442.
Stddev	.0471	.18	.3	.63	462.	26.
%RSD	135.5	.4137	.3446	.8392	.4987	.4839
#1	.0327	42.61	100.1	75.19	92710.	5465.
#2	-.0113	42.91	100.7	75.96	93020.	5413.
#3	.0829	42.60	100.6	74.70	92110.	5448.

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	8856.	795.4	119.7	58.11	248.1	.8167
Stddev	56.	3.2	3.6	.63	1.5	1.441
%RSD	.6311	.4024	2.973	1.090	.6148	176.4
#1	8804.	796.9	116.4	57.50	248.2	-.8114
#2	8915.	797.6	123.5	58.76	249.6	1.927
#3	8849.	791.7	119.2	58.08	246.6	1.334

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Sample Name: 460-112564-d-2-a@4 Acquired: 4/23/2016 12:46:40 Type: Unk
Method: BC042316 Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.8453	4.387	160.1	653.7	3.955	3.121
Stddev	.6986	2.535	.7	4.9	.386	.097
%RSD	82.65	57.77	.4234	.7549	9.749	3.116
#1	1.630	1.659	159.7	655.3	3.544	3.011
#2	.6154	4.835	160.9	657.6	4.012	3.153
#3	.2906	6.668	159.8	648.1	4.309	3.197

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	3.913	53.41	2122.	1606.
Stddev	.376	.08	8.	31.
%RSD	9.619	.1495	.3605	1.947
#1	4.088	53.50	2123.	1574.
#2	4.169	53.35	2128.	1637.
#3	3.481	53.38	2113.	1608.

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2016.1	14172.	3005.0
Stddev	17.3	145.	32.7
%RSD	.85978	1.0220	1.0872
#1	2004.4	14036.	2974.1
#2	2007.8	14156.	3001.5
#3	2036.0	14324.	3039.2

Sample Name: pds 460-112550-a-13- Acquired: 4/23/2016 12:50:20 Type: Unk
Method: BC042316 Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	40790.	1771.	39.60	1774.	48.86	18800.
Stddev	281.	16.	.36	9.	.34	54.
%RSD	.6888	.9277	.9105	.5270	.6894	.2856

#1	40460.	1752.	39.19	1764.	48.47	18760.
#2	40980.	1777.	39.83	1776.	49.02	18860.
#3	40910.	1783.	39.78	1783.	49.09	18770.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	41.48	616.9	304.6	401.2	F 256900.	16760.
Stddev	.20	2.4	1.5	1.4	802.	143.
%RSD	.4793	.3897	.4881	.3457	.3121	.8558

#1	41.25	614.9	303.1	399.7	256100.	16600.
#2	41.61	616.3	306.1	401.3	257700.	16830.
#3	41.59	619.6	304.4	402.5	256800.	16860.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					200000.	
Low Limit					-150.0	

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	17690.	5960.	17770.	542.8	443.0	429.5
Stddev	85.	17.	114.	1.6	3.5	2.0
%RSD	.4825	.2909	.6400	.3030	.7881	.4588

#1	17610.	5942.	17640.	541.2	440.0	427.4
#2	17780.	5977.	17820.	542.8	442.2	431.3
#3	17670.	5961.	17860.	544.5	446.8	429.7

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: pds 460-112550-a-13- Acquired: 4/23/2016 12:50:20 Type: Unk
Method: BC042316 Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1669.	1768.	565.2	782.1	390.0	422.5
Stddev	14.	10.	2.4	1.1	4.0	4.1
%RSD	.8166	.5799	.4291	.1350	1.037	.9624
#1	1657.	1761.	562.4	782.6	385.7	418.7
#2	1667.	1764.	566.2	780.9	390.5	421.9
#3	1684.	1780.	566.9	782.8	393.8	426.8

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	445.6	461.3	645.8	1112.
Stddev	2.6	3.0	1.9	14.
%RSD	.5877	.6526	.3006	1.284
#1	444.2	458.1	643.6	1127.
#2	444.0	461.9	647.2	1109.
#3	448.6	464.0	646.7	1099.

Check ? Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2178.9	15369.	3169.4
Stddev	16.5	132.	53.4
%RSD	.75940	.85609	1.6854
#1	2161.9	15254.	3154.2
#2	2194.9	15340.	3125.2
#3	2180.0	15513.	3228.8

Sample Name: 460-112550-a-13-c.ms Acquired: 4/23/2016 12:53:47 Type: Unk
Method: BC042316 Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	52380.	961.6	17.60	938.2	26.76	10400.
Stddev	270.	2.2	.85	2.6	.19	109.
%RSD	.5145	.2246	4.812	.2801	.7072	1.051
#1	52580.	959.1	18.41	935.7	26.98	10530.
#2	52080.	962.3	17.67	937.9	26.64	10350.
#3	52500.	963.3	16.72	940.9	26.66	10330.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	19.95	324.1	226.5	306.4	F 271200.	8952.
Stddev	.41	1.5	1.4	2.7	2564.	33.
%RSD	2.048	.4491	.6014	.8829	.9455	.3633
#1	19.48	322.4	228.1	309.1	274100.	8976.
#2	20.21	324.8	226.0	303.6	269600.	8915.
#3	20.16	325.0	225.6	306.4	269700.	8965.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					200000.	
Low Limit					-150.0	

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	9461.	3329.	9116.	303.9	241.4	188.6
Stddev	93.	29.	49.	1.5	1.3	1.4
%RSD	.9833	.8804	.5421	.5078	.5241	.7315
#1	9563.	3363.	9132.	302.2	240.7	187.1
#2	9437.	3310.	9061.	305.3	240.7	189.1
#3	9381.	3313.	9156.	304.2	242.9	189.7

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-112550-a-13-c.ms Acquired: 4/23/2016 12:53:47 Type: Unk
Method: BC042316 Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	846.5	915.3	356.3	540.9	182.1	214.3
Stddev	10.3	6.7	2.8	1.5	1.6	1.1
%RSD	1.216	.7301	.7759	.2788	.8574	.4942

#1	835.1	908.5	359.4	539.7	180.3	213.1
#2	849.3	915.6	354.0	540.5	183.3	214.9
#3	855.1	921.9	355.6	542.6	182.6	215.0

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	234.6	241.9	404.5	1626.
Stddev	1.3	1.6	3.1	24.
%RSD	.5519	.6638	.7762	1.505

#1	233.2	243.2	408.0	1607.
#2	234.9	240.1	402.1	1619.
#3	235.8	242.4	403.4	1654.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2177.5	15303.	3212.5
Stddev	3.3	261.	46.5
%RSD	.15248	1.7049	1.4488

#1	2175.2	15006.	3158.9
#2	2181.3	15410.	3235.8
#3	2176.0	15494.	3242.8

Sample Name: 460-112550-a-13-b du Acquired: 4/23/2016 12:57:19 Type: Unk
Method: BC042316 Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	36000.	89.53	-4.399	46.96	2.721	1263.
Stddev	128.	1.32	.265	.16	.105	3.
%RSD	.3558	1.473	6.020	.3421	3.869	.2589
#1	35970.	88.23	-4.358	46.90	2.665	1266.
#2	35890.	89.50	-4.158	47.14	2.842	1260.
#3	36140.	90.87	-4.682	46.84	2.655	1264.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.151	122.3	117.3	143.1	F 240500.	357.1
Stddev	.168	.5	.5	.5	1034.	10.3
%RSD	7.830	.4132	.3992	.3261	.4298	2.879
#1	-2.019	121.7	116.9	143.3	239300.	364.7
#2	-2.092	122.7	117.1	143.3	241100.	345.4
#3	-2.340	122.5	117.8	142.5	241200.	361.3

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					200000.	
Low Limit					-150.0	

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	624.7	3877.	27.39	83.48	9.344	5.721
Stddev	7.4	14.	2.07	.54	.647	.509
%RSD	1.189	.3629	7.562	.6411	6.925	8.906
#1	616.1	3861.	27.29	84.07	9.808	5.192
#2	628.8	3883.	25.37	83.34	8.605	5.761
#3	629.2	3887.	29.51	83.02	9.619	6.209

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-112550-a-13-b du Acquired: 4/23/2016 12:57:19 Type: Unk
Method: BC042316 Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-7.275	6.252	110.5	298.0	-9.266	3.387
Stddev	1.735	1.260	1.3	2.3	.304	.163
%RSD	23.85	20.15	1.171	.7610	3.277	4.808
#1	-6.236	5.785	109.1	295.4	-9.091	3.222
#2	-6.310	7.678	111.1	299.5	-9.617	3.392
#3	-9.278	5.292	111.5	299.0	-9.091	3.548

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	15.66	5.261	185.8	1255.
Stddev	.62	.033	1.6	24.
%RSD	3.962	.6273	.8478	1.880
#1	16.20	5.279	184.1	1250.
#2	15.78	5.223	187.3	1280.
#3	14.98	5.281	186.0	1234.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2182.1	15443.	3229.2
Stddev	.9	33.	5.7
%RSD	.03941	.21126	.17770
#1	2182.0	15466.	3235.8
#2	2181.2	15405.	3225.9
#3	2182.9	15456.	3225.9

Sample Name: 460-112550-a-13-a@4 Acquired: 4/23/2016 13:01:00 Type: Unk
Method: BC042316 Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	38280.	101.9	-4.206	34.44	3.206	1346.
Stddev	180.	1.9	.062	.06	.116	14.
%RSD	.4688	1.818	1.474	.1874	3.619	1.033
#1	38460.	102.0	-4.190	34.42	3.094	1361.
#2	38280.	103.7	-4.275	34.39	3.197	1340.
#3	38100.	100.0	-4.154	34.52	3.326	1335.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.233	187.2	120.1	178.5	F 256900.	356.9
Stddev	.393	.6	1.1	.3	2398.	25.7
%RSD	17.58	.3237	.9491	.1812	.9336	7.206
#1	-2.664	186.5	121.5	178.1	259600.	359.1
#2	-2.140	187.7	119.6	178.7	256000.	330.1
#3	-1.896	187.4	119.4	178.7	255100.	381.4

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					200000.	
Low Limit					-150.0	

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	682.1	5558.	21.57	104.8	8.130	6.587
Stddev	3.3	46.	2.46	1.4	1.440	.747
%RSD	.4770	.8300	11.42	1.294	17.72	11.34
#1	685.6	5610.	22.14	103.8	7.567	5.873
#2	679.3	5541.	23.70	104.2	9.767	6.524
#3	681.4	5522.	18.87	106.3	7.057	7.363

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-112550-a-13-a@4 Acquired: 4/23/2016 13:01:00 Type: Unk
Method: BC042316 Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-6.831	9.355	117.2	347.5	-10.22	4.372
Stddev	3.104	1.573	.4	1.3	.36	.116
%RSD	45.44	16.81	.3398	.3756	3.553	2.654
#1	-9.107	7.582	117.1	349.0	-10.57	4.239
#2	-3.295	9.905	116.8	347.2	-9.848	4.449
#3	-8.090	10.58	117.6	346.4	-10.23	4.429

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	15.39	5.000	194.9	1058.
Stddev	.10	.087	.7	20.
%RSD	.6730	1.740	.3397	1.895
#1	15.30	4.948	195.2	1038.
#2	15.50	4.951	194.2	1058.
#3	15.36	5.100	195.4	1078.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2204.4	15482.	3248.9
Stddev	11.4	286.	76.3
%RSD	.51935	1.8484	2.3472
#1	2191.9	15154.	3165.6
#2	2206.9	15615.	3266.1
#3	2214.4	15677.	3315.2

Sample Name: sd 460-112550-a-13-a Acquired: 4/23/2016 13:04:39 Type: Unk
Method: BC042316 Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	8346.	20.99	-1.324	7.273	.8171	313.8
Stddev	65.	1.74	.248	.249	.0942	2.8
%RSD	.7794	8.284	18.71	3.423	11.52	.8943
#1	8409.	22.74	-1.512	7.377	.8558	314.2
#2	8350.	20.96	-1.417	7.452	.8858	310.8
#3	8279.	19.27	-1.043	6.989	.7098	316.4

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.7126	40.58	26.21	38.61	56260.	57.04
Stddev	.0261	.03	.15	.70	196.	27.96
%RSD	3.664	.0687	.5864	1.801	.3482	49.02
#1	-.7259	40.55	26.35	38.43	56320.	86.86
#2	-.7294	40.58	26.22	38.02	56430.	31.42
#3	-.6825	40.61	26.05	39.38	56050.	52.84

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	148.0	1230.	4.322	22.54	2.733	-.1939
Stddev	2.3	4.	5.929	.37	.798	.5912
%RSD	1.554	.3203	137.2	1.625	29.22	304.9
#1	149.6	1231.	9.197	22.17	2.050	.2745
#2	149.0	1234.	-2.279	22.91	3.611	.0020
#3	145.4	1226.	6.047	22.53	2.539	-.8583

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Sample Name: sd 460-112550-a-13-a Acquired: 4/23/2016 13:04:39 Type: Unk
Method: BC042316 Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.7040	1.160	24.86	80.11	-2.336	.7236
Stddev	2.291	1.232	.16	.20	.280	.1221
%RSD	325.4	106.2	.6432	.2476	11.99	16.87
#1	1.583	-.0667	24.69	80.10	-2.030	.5958
#2	-1.896	2.398	25.01	79.91	-2.579	.7360
#3	2.425	1.150	24.87	80.31	-2.400	.8390

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	2.618	1.157	41.76	234.1
Stddev	.411	.082	.22	14.7
%RSD	15.70	7.059	.5226	6.265
#1	3.087	1.152	41.74	230.0
#2	2.319	1.241	41.99	221.9
#3	2.447	1.078	41.56	250.4

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2007.3	14046.	2939.1
Stddev	5.6	81.	51.0
%RSD	.28119	.57459	1.7367
#1	2002.9	14039.	2888.6
#2	2013.7	13968.	2937.9
#3	2005.5	14129.	2990.7

Sample Name: CCV Acquired: 4/23/2016 13:08:22 Type: QC
Method: BC042316 Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	124100.	2476.	1228.	10100.	1005.	124600.
Stddev	401.	5.	2.	9.	3.	355.
%RSD	.3229	.2132	.1476	.0939	.3272	.2851

#1	123600.	2476.	1229.	10090.	1001.	124200.
#2	124200.	2470.	1226.	10110.	1008.	124700.
#3	124400.	2480.	1229.	10090.	1005.	124900.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1253.	2483.	5018.	12370.	101000.	50150.
Stddev	2.	4.	6.	14.	289.	170.
%RSD	.1809	.1497	.1182	.1111	.2860	.3395

#1	1251.	2481.	5011.	12390.	100700.	49960.
#2	1256.	2488.	5019.	12360.	101000.	50240.
#3	1253.	2482.	5023.	12370.	101300.	50260.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	126200.	5167.	126600.	2508.	7496.	978.1
Stddev	236.	9.	195.	7.	17.	5.1
%RSD	.1873	.1815	.1541	.2612	.2323	.5186

#1	126000.	5158.	126400.	2503.	7476.	975.2
#2	126200.	5168.	126800.	2515.	7510.	983.9
#3	126500.	5177.	126700.	2504.	7501.	975.1

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCV Acquired: 4/23/2016 13:08:22 Type: QC
Method: BC042316 Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2455.	2482.	2506.	2516.	928.8	2438.
Stddev	10.	10.	4.	4.	2.8	4.
%RSD	.4082	.4128	.1539	.1775	.3034	.1622
#1	2444.	2470.	2501.	2510.	925.8	2437.
#2	2463.	2484.	2507.	2519.	929.2	2442.
#3	2459.	2490.	2509.	2518.	931.4	2435.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	989.1	5130.	10150.	9286.
Stddev	2.1	12.	11.	53.
%RSD	.2174	.2409	.1066	.5683
#1	987.6	5116.	10140.	9227.
#2	991.6	5137.	10150.	9329.
#3	988.2	5138.	10160.	9301.

Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	1768.8	12803.	2683.7
Stddev	3.9	9.	8.4
%RSD	.22186	.07252	.31425
#1	1768.2	12800.	2693.4
#2	1765.1	12797.	2679.4
#3	1772.9	12814.	2678.2

Sample Name: CCB Acquired: 4/23/2016 13:11:46 Type: QC
Method: BC042316 Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	10.95	-1.065	-.1387	.1855	.0759	12.01
Stddev	14.60	2.422	.2725	.2201	.0846	2.58
%RSD	133.2	227.4	196.4	118.6	111.5	21.46
#1	12.76	-1.035	-.1753	.3776	.0463	14.94
#2	24.56	1.342	-.3911	.2335	.1713	11.01
#3	-4.463	-3.501	.1502	-.0546	.0101	10.09

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.0242	.0604	.6334	1.092	6.048	.1406
Stddev	.0551	.0123	.6284	.213	2.421	17.71
%RSD	227.4	20.45	99.20	19.54	40.03	12600.
#1	.0713	.0556	.6313	1.334	4.016	19.84
#2	.0377	.0744	1.263	.9331	8.726	-14.46
#3	-.0363	.0511	.0061	1.007	5.402	-4.965

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.325	.1636	19.78	.5976	.9807	-.8252
Stddev	4.044	.0761	17.07	.6430	.9099	1.941
%RSD	121.6	46.49	86.31	107.6	92.78	235.2
#1	7.645	.2437	39.43	-.1444	.2401	-2.838
#2	2.701	.1548	11.20	.9897	.7055	-.6736
#3	-.3711	.0923	8.699	.9475	1.996	1.035

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: CCB Acquired: 4/23/2016 13:11:46 Type: QC
Method: BC042316 Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.198	1.474	-1.522	-0.0362	1.695	1.306
Stddev	.834	.505	.1812	.0483	.757	.113
%RSD	37.96	34.29	119.0	133.3	44.66	8.629
#1	1.515	.8973	-.3024	-.0123	2.414	1.284
#2	1.950	1.840	.0491	-.0917	1.767	1.428
#3	3.128	1.684	-.2034	-.0046	.9048	1.205

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	-.1956	.1971	1.519	.9989
Stddev	.4117	.0842	.156	3.734
%RSD	210.5	42.73	10.27	373.8
#1	.2798	.1306	1.475	-3.312
#2	-.4281	.2917	1.692	3.121
#3	-.4384	.1689	1.389	3.187

Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	1926.4	13522.	2826.5
Stddev	11.2	109.	21.8
%RSD	.57903	.80407	.77258
#1	1935.0	13564.	2818.5
#2	1930.6	13603.	2851.2
#3	1913.8	13399.	2809.8

Sample Name: CCVL Acquired: 4/23/2016 13:15:36 Type: QC
Method: BC042316 Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	189.8	12.77	8.566	184.7	1.903	4710.
Stddev	3.3	1.49	.603	.2	.091	12.
%RSD	1.763	11.64	7.034	.1131	4.766	.2482

#1	186.9	12.22	8.376	184.4	1.880	4719.
#2	193.4	11.63	9.240	184.8	2.003	4697.
#3	189.1	14.45	8.081	184.7	1.826	4714.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.852	46.29	9.697	23.53	185.8	4490.
Stddev	.117	.06	.731	.12	1.4	18.
%RSD	3.031	.1324	7.542	.5146	.7286	.4085

#1	3.727	46.31	9.196	23.67	186.2	4509.
#2	3.871	46.22	10.54	23.47	184.2	4473.
#3	3.958	46.33	9.357	23.45	186.8	4487.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4589.	15.23	4558.	37.44	10.69	16.50
Stddev	15.	.07	28.	.95	.88	2.02
%RSD	.3258	.4682	.6050	2.538	8.244	12.24

#1	4576.	15.30	4590.	38.24	10.92	15.44
#2	4605.	15.24	4546.	37.69	11.44	18.84
#3	4585.	15.15	4539.	36.39	9.719	15.24

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCVL Acquired: 4/23/2016 13:15:36 Type: QC
Method: BC042316 Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	15.75	20.30	47.06	31.67	46.58	17.42
Stddev	1.10	.18	.59	.18	.25	.12
%RSD	7.007	.8751	1.245	.5534	.5370	.6784

#1	14.49	20.32	46.67	31.80	46.80	17.56
#2	16.26	20.46	47.73	31.47	46.31	17.38
#3	16.51	20.11	46.77	31.74	46.62	17.34

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	43.79	19.30	20.01	F 14.58
Stddev	.40	.07	.31	10.85
%RSD	.9121	.3699	1.561	74.42

#1	43.33	19.25	19.65	17.91
#2	43.96	19.38	20.18	23.38
#3	44.07	19.27	20.20	2.456

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				200.0
Range				-30.50%

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	1924.6	13501.	2839.8
Stddev	8.0	36.	33.4
%RSD	.41609	.26448	1.1744

#1	1929.7	13461.	2809.3
#2	1928.8	13529.	2834.7
#3	1915.4	13513.	2875.4

Sample Name: mb 460-364230/1-a@2 Acquired: 4/23/2016 13:19:21 Type: QC
Method: BC042316 Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.604	-1.771	-.7901	-.0395	.0672	9.666
Stddev	10.44	.107	.2193	.2063	.1034	2.841
%RSD	226.7	6.014	27.76	522.6	153.9	29.39
#1	4.027	-1.763	-1.033	.0206	.0206	6.742
#2	15.32	-1.882	-.7290	.1302	.1856	12.42
#3	-5.535	-1.669	-.6078	-.2691	-.0047	9.838

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.0451	-.0839	.0939	.8069	-3.484	-1.439
Stddev	.0971	.2183	.2980	.0831	2.784	6.715
%RSD	215.5	260.2	317.2	10.30	79.92	466.6
#1	-.0088	.0948	.0001	.7296	-.7580	-9.187
#2	-.0131	-.3272	.4275	.8948	-6.323	2.673
#3	.1572	-.0193	-.1459	.7964	-3.371	2.197

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.0289	-.0703	-1.728	.1157	.1900	-1.544
Stddev	3.119	.0550	4.694	.5467	.4141	1.988
%RSD	10790.	78.13	271.7	472.7	217.9	128.8
#1	-1.452	-.0814	-5.307	.7391	.6148	.5532
#2	-2.183	-.1189	3.587	-.1098	.1676	-1.784
#3	3.548	-.0107	-3.464	-.2823	-.2124	-3.401

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: mb 460-364230/1-a@2 Acquired: 4/23/2016 13:19:21 Type: QC
Method: BC042316 Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.496	3.014	.2798	-.0644	.1462	-.1329
Stddev	2.100	1.003	.3801	.0678	.2544	.0412
%RSD	84.15	33.28	135.8	105.3	174.0	31.04
#1	4.839	3.905	-.0937	-.0718	-.1194	-.1792
#2	.7840	3.210	.6661	-.1283	.3877	-.1003
#3	1.864	1.928	.2670	.0067	.1702	-.1191

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.2241	.0173	.1047	9.200
Stddev	.3637	.0628	.1786	4.830
%RSD	162.3	362.5	170.6	52.50
#1	.0891	-.0296	.1245	14.75
#2	.6360	-.0071	-.0830	6.897
#3	-.0528	.0887	.2726	5.952

Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	1916.0	13486.	2818.6
Stddev	9.8	173.	40.7
%RSD	.51107	1.2846	1.4452
#1	1913.3	13387.	2788.4
#2	1926.9	13686.	2864.9
#3	1907.9	13386.	2802.4

Sample Name: lcssrm 460-364230/2- Acquired: 4/23/2016 13:23:12 Type: QC
Method: BC042316 Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	38440.	674.3	143.8	993.4	482.8	27590.
Stddev	120.	1.0	1.0	.6	.7	179.
%RSD	.3118	.1444	.6677	.0569	.1456	.6490

#1	38370.	673.2	143.1	993.8	482.5	27600.
#2	38360.	674.8	143.3	993.5	482.2	27410.
#3	38580.	674.9	144.9	992.7	483.6	27770.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	417.2	744.5	713.5	826.4	80410.	11370.
Stddev	.3	.4	2.8	1.2	326.	13.
%RSD	.0688	.0579	.3988	.1476	.4054	.1138

#1	417.3	744.2	714.7	825.8	80540.	11350.
#2	417.5	745.0	710.3	827.8	80040.	11380.
#3	416.9	744.3	715.6	825.7	80650.	11370.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	12600.	1593.	4090.	644.2	704.7	745.2
Stddev	63.	5.	7.	.4	2.8	.7
%RSD	.5004	.2842	.1658	.0638	.3986	.0940

#1	12590.	1594.	4084.	644.2	704.5	744.4
#2	12550.	1588.	4090.	643.8	702.0	745.8
#3	12670.	1597.	4097.	644.6	707.6	745.2

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: lcssrm 460-364230/2- Acquired: 4/23/2016 13:23:12 Type: QC
Method: BC042316 Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	814.1	704.2	564.1	960.5	547.8	550.6
Stddev	.8	3.7	2.0	.4	2.8	1.6
%RSD	.0989	.5250	.3635	.0393	.5025	.2973
#1	813.2	700.2	564.7	960.2	544.6	549.0
#2	814.7	707.5	561.8	960.9	549.3	552.3
#3	814.3	705.0	565.7	960.4	549.5	550.4

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	706.6	503.6	1565.	1280.
Stddev	.6	.5	2.	39.
%RSD	.0793	.0978	.1185	3.013
#1	706.5	504.2	1564.	1252.
#2	707.3	503.5	1564.	1324.
#3	706.2	503.3	1567.	1264.

Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2027.2	14289.	2944.3
Stddev	10.6	177.	33.0
%RSD	.52203	1.2395	1.1194
#1	2015.5	14115.	2928.0
#2	2030.1	14469.	2982.2
#3	2036.0	14284.	2922.6

Sample Name: 460-112257-c-4-h@4 Acquired: 4/23/2016 13:26:41 Type: Unk
Method: BC042316 Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	35570.	40.06	-1.545	174.1	2.411	4844.
Stddev	10.	.77	.814	.5	.116	36.
%RSD	.0282	1.933	52.65	.2785	4.818	.7439
#1	35580.	40.09	-.6101	174.1	2.496	4878.
#2	35570.	39.28	-1.936	174.6	2.278	4806.
#3	35560.	40.82	-2.090	173.6	2.457	4847.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.2532	7.814	127.3	30.66	62990.	5305.
Stddev	.1075	.262	1.1	.39	245.	27.
%RSD	42.45	3.356	.8578	1.256	.3895	.5158
#1	-.2111	7.611	128.4	30.92	63260.	5304.
#2	-.1731	7.721	126.2	30.85	62770.	5278.
#3	-.3753	8.110	127.3	30.22	62940.	5332.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3858.	502.2	298.9	22.87	104.1	3.308
Stddev	14.	1.9	6.8	.68	1.4	2.149
%RSD	.3609	.3882	2.281	2.992	1.384	64.95
#1	3856.	504.4	292.7	22.14	103.1	1.314
#2	3846.	500.7	297.8	23.49	103.4	5.583
#3	3873.	501.4	306.2	22.98	105.7	3.026

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-112257-c-4-h@4 Acquired: 4/23/2016 13:26:41 Type: Unk
Method: BC042316 Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-3.723	2.413	122.6	149.8	53.34	4.131
Stddev	1.584	1.096	.9	.9	.47	.202
%RSD	425.4	45.42	.7345	.5879	.8864	4.884
#1	.7070	1.396	121.6	149.3	53.35	4.328
#2	-2.191	3.574	122.8	149.2	52.86	4.141
#3	.3665	2.271	123.4	150.8	53.81	3.925

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	20.51	37.78	447.1	869.3
Stddev	.38	.10	1.3	12.2
%RSD	1.828	.2697	.2856	1.406
#1	20.75	37.72	446.3	857.6
#2	20.71	37.71	448.6	868.3
#3	20.08	37.89	446.4	881.9

Check ? Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2161.3	15185.	3196.7
Stddev	5.7	198.	34.2
%RSD	.26389	1.3044	1.0703
#1	2158.9	14961.	3159.1
#2	2167.8	15336.	3205.0
#3	2157.2	15259.	3226.0

Sample Name: 460-112257-c-5-h@4 Acquired: 4/23/2016 13:30:22 Type: Unk
Method: BC042316 Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	33040.	34.07	-7.552	184.1	2.003	12790.
Stddev	90.	1.77	.6564	1.0	.135	77.
%RSD	.2725	5.185	86.92	.5198	6.761	.6026

#1	32980.	34.76	-1.020	184.7	2.131	12720.
#2	33140.	32.06	-1.238	184.6	2.017	12870.
#3	33000.	35.39	-.0078	183.0	1.861	12770.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.0433	11.54	107.3	55.90	56600.	5613.
Stddev	.0315	.03	1.2	.19	241.	12.
%RSD	72.62	.2497	1.082	.3432	.4261	.2051

#1	.0755	11.56	106.5	55.88	56450.	5600.
#2	.0419	11.55	108.7	56.10	56880.	5622.
#3	.0126	11.50	106.8	55.71	56470.	5616.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	7321.	714.2	268.9	29.26	123.9	2.836
Stddev	84.	2.7	7.3	.31	1.7	1.081
%RSD	1.141	.3845	2.723	1.052	1.390	38.12

#1	7242.	712.2	274.9	28.91	121.9	3.322
#2	7409.	717.3	271.0	29.46	124.5	1.597
#3	7313.	713.0	260.7	29.42	125.2	3.588

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-112257-c-5-h@4 Acquired: 4/23/2016 13:30:22 Type: Unk
Method: BC042316 Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.6322	2.893	102.3	232.6	34.54	3.448
Stddev	1.546	1.124	.7	1.0	.37	.191
%RSD	244.6	38.85	.7319	.4258	1.066	5.542
#1	.8041	3.796	101.5	231.7	34.93	3.576
#2	2.085	1.634	102.9	233.7	34.48	3.540
#3	-.9928	3.249	102.5	232.4	34.20	3.228

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	22.30	48.88	521.8	1043.
Stddev	.43	.19	.9	18.
%RSD	1.939	.3964	.1686	1.768
#1	21.90	48.69	520.9	1022.
#2	22.76	49.08	522.0	1052.
#3	22.23	48.87	522.6	1055.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2035.7	14444.	3041.1
Stddev	7.8	110.	25.4
%RSD	.38370	.76184	.83558
#1	2028.4	14443.	3016.3
#2	2034.7	14335.	3040.1
#3	2043.9	14555.	3067.0

Sample Name: 460-112257-c-6-h@4 Acquired: 4/23/2016 13:34:03 Type: Unk
Method: BC042316 Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	36410.	48.89	-1.144	206.0	2.161	14310.
Stddev	85.	.89	.485	.8	.051	56.
%RSD	.2325	1.811	42.42	.4024	2.364	.3946
#1	36310.	48.72	-1.617	205.1	2.159	14250.
#2	36470.	48.10	-.6479	206.3	2.213	14310.
#3	36450.	49.84	-1.166	206.6	2.111	14370.

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.4336	13.45	87.88	79.65	57900.	5453.
Stddev	.1405	.07	.51	.24	51.	15.
%RSD	32.41	.5384	.5790	.3056	.0878	.2785
#1	.4475	13.37	87.30	79.38	57850.	5468.
#2	.2866	13.51	88.21	79.84	57900.	5437.
#3	.5666	13.47	88.15	79.74	57960.	5454.

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	8346.	756.0	284.0	34.56	195.3	2.076
Stddev	76.	1.3	5.9	.16	1.2	.634
%RSD	.9134	.1656	2.091	.4700	.6363	30.53
#1	8258.	754.8	288.2	34.38	195.5	2.166
#2	8389.	755.9	277.2	34.69	194.0	2.660
#3	8391.	757.3	286.6	34.61	196.5	1.402

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Sample Name: 460-112257-c-6-h@4 Acquired: 4/23/2016 13:34:03 Type: Unk
Method: BC042316 Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.8389	2.954	99.43	293.1	21.74	3.242
Stddev	1.911	2.696	.89	.5	.49	.370
%RSD	227.8	91.27	.8932	.1619	2.239	11.41
#1	1.794	.8549	98.62	292.6	21.23	3.372
#2	-1.361	5.995	100.4	293.4	21.80	2.824
#3	2.084	2.013	99.30	293.4	22.19	3.528

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	26.45	57.01	570.5	1183.
Stddev	.09	.12	.6	19.
%RSD	.3349	.2089	.1109	1.614
#1	26.53	57.12	570.4	1205.
#2	26.36	56.89	569.9	1169.
#3	26.46	57.02	571.1	1176.

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	1965.5	13905.	2945.3
Stddev	3.9	34.	10.6
%RSD	.19985	.24240	.35851
#1	1961.4	13868.	2936.1
#2	1969.2	13912.	2942.9
#3	1965.8	13934.	2956.8

Sample Name: 460-112257-c-7-h@4 Acquired: 4/23/2016 13:37:44 Type: Unk
Method: BC042316 Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	37090.	41.31	-.5255	236.7	1.994	26070.
Stddev	163.	.73	.3456	.5	.025	132.
%RSD	.4400	1.775	65.77	.2298	1.247	.5059
#1	36910.	42.09	-.5141	237.3	2.001	25910.
#2	37130.	40.64	-.8766	236.5	1.966	26140.
#3	37230.	41.21	-.1857	236.3	2.015	26140.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.6563	14.67	119.4	86.78	64490.	7193.
Stddev	.2425	.38	1.1	.50	237.	24.
%RSD	36.96	2.573	.9460	.5782	.3677	.3323
#1	.9141	14.91	118.1	86.79	64220.	7166.
#2	.6221	14.87	120.1	86.27	64580.	7212.
#3	.4326	14.24	119.9	87.27	64660.	7201.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	12000.	947.3	318.4	39.17	163.5	2.143
Stddev	27.	2.6	1.8	.10	.8	1.128
%RSD	.2264	.2708	.5522	.2610	.4734	52.61
#1	11970.	944.4	316.6	39.06	162.6	1.674
#2	12020.	948.2	318.6	39.26	163.9	3.430
#3	12010.	949.3	320.1	39.18	163.9	1.326

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-112257-c-7-h@4 Acquired: 4/23/2016 13:37:44 Type: Unk
Method: BC042316 Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.747	2.383	97.61	315.3	32.70	3.952
Stddev	1.500	.371	.56	1.7	.45	.112
%RSD	85.85	15.55	.5691	.5314	1.377	2.822
#1	.5157	2.020	97.58	313.4	32.52	3.983
#2	1.308	2.760	97.08	315.5	33.21	3.828
#3	3.417	2.368	98.19	316.8	32.36	4.044

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	26.13	90.23	647.5	1184.
Stddev	.17	.31	.7	32.
%RSD	.6495	.3382	.1153	2.692
#1	26.04	89.89	647.2	1190.
#2	26.03	90.49	648.4	1211.
#3	26.33	90.30	647.0	1149.

Check ? Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	1956.1	14040.	2994.0
Stddev	4.2	15.	22.6
%RSD	.21233	.10632	.75511
#1	1955.4	14056.	3002.7
#2	1960.6	14026.	3011.0
#3	1952.4	14037.	2968.3

Sample Name: 460-112257-c-8-h@4 Acquired: 4/23/2016 13:41:25 Type: Unk
Method: BC042316 Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	39360.	44.30	-9751	237.1	2.293	22780.
Stddev	56.	1.98	.3337	1.4	.067	286.
%RSD	.1428	4.469	34.23	.5814	2.900	1.257
#1	39340.	45.47	-.6205	238.4	2.224	22650.
#2	39320.	45.42	-1.022	237.1	2.299	22580.
#3	39420.	42.01	-1.283	235.7	2.357	23110.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.4924	17.09	113.2	88.68	73540.	6396.
Stddev	.2099	.13	1.3	.80	682.	11.
%RSD	42.64	.7485	1.121	.8989	.9278	.1653
#1	.7009	16.94	112.3	89.59	73210.	6403.
#2	.4952	17.17	112.7	88.37	73080.	6384.
#3	.2810	17.16	114.7	88.08	74320.	6402.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	10170.	1129.	441.6	38.72	283.6	3.062
Stddev	147.	8.	3.1	.08	.7	3.265
%RSD	1.443	.7027	.7013	.2158	.2366	106.6
#1	10110.	1126.	442.0	38.81	284.4	3.685
#2	10050.	1123.	438.3	38.67	283.3	-.4698
#3	10330.	1138.	444.4	38.66	283.2	5.970

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-112257-c-8-h@4 Acquired: 4/23/2016 13:41:25 Type: Unk
Method: BC042316 Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.686	3.908	105.6	313.6	26.58	5.025
Stddev	3.530	1.486	.7	2.5	.38	.284
%RSD	131.4	38.01	.6868	.8009	1.442	5.656
#1	3.257	4.224	104.9	310.7	27.00	4.701
#2	5.895	2.291	105.6	314.7	26.25	5.138
#3	-1.095	5.211	106.3	315.3	26.50	5.234

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	26.14	85.14	599.8	1183.
Stddev	.57	.29	1.1	25.
%RSD	2.175	.3372	.1847	2.085
#1	25.80	85.24	599.3	1194.
#2	25.82	85.37	599.0	1201.
#3	26.79	84.82	601.1	1155.

Check ? Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2049.8	14614.	3084.1
Stddev	.2	216.	58.0
%RSD	.01022	1.4809	1.8812
#1	2050.0	14612.	3101.1
#2	2049.6	14831.	3131.7
#3	2049.9	14398.	3019.4

Sample Name: 460-112566-d-1-f@4 Acquired: 4/23/2016 13:45:05 Type: Unk
Method: BC042316 Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	27810.	295.6	-.5159	2394.	1.089	17400.
Stddev	167.	.8	.1515	7.	.077	186.
%RSD	.6013	.2810	29.37	.2849	7.061	1.068
#1	27640.	295.7	-.4531	2390.	1.114	17220.
#2	27970.	294.8	-.4058	2390.	1.150	17410.
#3	27840.	296.4	-.6887	2402.	1.003	17590.

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	8.429	102.8	322.9	676.2	184700.	4739.
Stddev	.100	.7	3.3	1.4	1486.	51.
%RSD	1.182	.6698	1.011	.2051	.8044	1.073
#1	8.379	102.1	319.4	675.9	183100.	4680.
#2	8.544	103.0	323.5	677.7	184800.	4773.
#3	8.365	103.4	325.8	675.0	186100.	4763.

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	18320.	2403.	1089.	726.0	2001.	39.01
Stddev	183.	16.	6.	3.0	11.	1.62
%RSD	.9996	.6742	.5377	.4179	.5394	4.160
#1	18140.	2386.	1084.	722.7	1989.	40.52
#2	18300.	2406.	1086.	726.9	2007.	39.21
#3	18510.	2418.	1095.	728.6	2009.	37.30

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Sample Name: 460-112566-d-1-f@4 Acquired: 4/23/2016 13:45:05 Type: Unk
Method: BC042316 Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.9293	8.438	202.9	1453.	13.86	38.03
Stddev	.3686	1.966	1.2	9.	.51	.54
%RSD	39.66	23.30	.5947	.6048	3.678	1.425
#1	.8536	7.059	201.6	1444.	13.64	38.13
#2	1.330	10.69	203.3	1461.	14.44	37.44
#3	.6045	7.565	203.9	1454.	13.50	38.51

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	142.8	194.7	1760.	896.1
Stddev	1.0	.5	7.	20.7
%RSD	.7295	.2478	.4204	2.310
#1	141.6	194.3	1752.	918.3
#2	143.5	194.7	1762.	892.8
#3	143.3	195.2	1766.	877.3

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	1959.6	13854.	2920.5
Stddev	4.9	69.	52.3
%RSD	.24803	.49800	1.7916
#1	1956.6	13908.	2974.8
#2	1957.0	13877.	2916.3
#3	1965.2	13776.	2870.5

Sample Name: 460-112566-a-2-a@4 Acquired: 4/23/2016 13:48:41 Type: Unk
Method: BC042316 Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	29870.	13.29	-1.994	820.0	1.994	19000.
Stddev	107.	1.21	.261	4.6	.042	44.
%RSD	.3579	9.065	13.08	.5635	2.081	.2334
#1	29790.	14.16	-1.802	825.2	1.965	18950.
#2	29820.	13.80	-1.890	816.5	1.975	19020.
#3	29990.	11.92	-2.291	818.1	2.042	19030.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.069	84.07	206.9	234.1	100900.	6534.
Stddev	.122	.49	.2	.1	109.	22.
%RSD	11.40	.5861	.0932	.0441	.1078	.3352
#1	.9874	83.88	206.7	234.2	100700.	6522.
#2	1.011	83.69	206.9	234.1	100900.	6521.
#3	1.209	84.62	207.1	234.0	100900.	6559.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	47610.	1467.	797.3	1156.	255.7	6.308
Stddev	129.	3.	6.7	3.	1.2	.687
%RSD	.2702	.1935	.8387	.2348	.4723	10.89
#1	47470.	1464.	799.1	1153.	255.8	6.099
#2	47630.	1468.	789.9	1156.	254.4	5.750
#3	47730.	1470.	802.9	1158.	256.8	7.076

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-112566-a-2-a@4 Acquired: 4/23/2016 13:48:41 Type: Unk
Method: BC042316 Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.071	3.638	99.87	397.2	16.44	24.23
Stddev	1.966	3.611	.15	1.6	.45	.49
%RSD	94.94	99.25	.1501	.4085	2.734	2.018
#1	-3.735	7.789	99.93	395.4	16.65	24.05
#2	-2.575	1.223	99.97	397.7	16.75	23.86
#3	.0983	1.902	99.69	398.6	15.93	24.79

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	21.93	303.7	1590.	965.0
Stddev	.43	1.5	2.	2.2
%RSD	1.982	.4845	.1046	.2241
#1	22.43	302.4	1588.	963.7
#2	21.71	303.5	1590.	963.8
#3	21.65	305.3	1591.	967.5

Check ? Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	1997.7	14241.	3038.4
Stddev	1.6	47.	18.8
%RSD	.08203	.32656	.61920
#1	1996.2	14191.	3034.2
#2	1997.5	14249.	3058.9
#3	1999.5	14283.	3022.0

Sample Name: 460-112566-a-3-a@4 Acquired: 4/23/2016 13:52:19 Type: Unk
Method: BC042316 Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	30560.	13.65	-1.229	975.4	1.599	29080.
Stddev	40.	1.18	.353	3.0	.057	82.
%RSD	.1303	8.663	28.69	.3073	3.542	.2826
#1	30520.	14.48	-.8808	977.8	1.626	29050.
#2	30590.	14.17	-1.220	976.4	1.637	29020.
#3	30580.	12.29	-1.586	972.0	1.534	29180.

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.4469	74.02	201.9	159.5	99020.	6424.
Stddev	.0961	.35	.5	.3	206.	29.
%RSD	21.51	.4741	.2555	.1938	.2084	.4574
#1	.5172	74.36	201.6	159.2	98940.	6397.
#2	.4860	74.04	201.6	159.8	98870.	6455.
#3	.3373	73.66	202.5	159.4	99260.	6421.

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	43220.	2022.	1001.	1054.	280.9	11.97
Stddev	147.	3.	10.	.	.9	1.18
%RSD	.3407	.1553	.9674	.0223	.3310	9.837
#1	43150.	2021.	990.4	1054.	281.0	13.33
#2	43130.	2020.	1003.	1054.	281.8	11.40
#3	43390.	2026.	1009.	1054.	279.9	11.19

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Sample Name: 460-112566-a-3-a@4 Acquired: 4/23/2016 13:52:19 Type: Unk
Method: BC042316 Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.185	4.046	100.4	529.6	17.39	32.59
Stddev	2.746	1.011	.2	.5	.18	.14
%RSD	125.7	24.98	.1589	.0933	1.049	.4242
#1	-4.862	3.405	100.5	530.0	17.51	32.66
#2	.6245	3.521	100.6	529.8	17.18	32.68
#3	-2.317	5.211	100.3	529.1	17.48	32.43

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	23.32	370.1	1695.	967.5
Stddev	.14	.5	2.	14.7
%RSD	.5922	.1346	.0963	1.520
#1	23.32	370.6	1693.	958.3
#2	23.46	370.3	1695.	959.8
#3	23.19	369.6	1696.	984.5

Check ? Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	1954.4	13832.	2891.6
Stddev	5.5	83.	8.6
%RSD	.28326	.59910	.29661
#1	1948.1	13753.	2895.8
#2	1958.6	13918.	2897.2
#3	1956.6	13825.	2881.7

Sample Name: CCV Acquired: 4/23/2016 13:55:56 Type: QC
Method: BC042316 Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	129100.	2580.	1272.	10500.	1049.	127800.
Stddev	159.	11.	2.	19.	1.	526.
%RSD	.1227	.4277	.1532	.1820	.1326	.4117

#1	129300.	2570.	1274.	10480.	1050.	128200.
#2	129000.	2579.	1272.	10500.	1047.	128000.
#3	129000.	2592.	1270.	10520.	1049.	127200.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1299.	2582.	5179.	12950.	104100.	52190.
Stddev	2.	3.	23.	19.	404.	17.
%RSD	.1615	.1277	.4480	.1488	.3884	.0317

#1	1299.	2579.	5204.	12950.	104500.	52190.
#2	1297.	2582.	5177.	12930.	104200.	52180.
#3	1301.	2585.	5158.	12970.	103700.	52210.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	129400.	5337.	132200.	2609.	7784.	1026.
Stddev	680.	18.	408.	3.	6.	5.
%RSD	.5259	.3436	.3089	.1316	.0820	.4923

#1	130000.	5351.	132700.	2610.	7780.	1024.
#2	129500.	5344.	132100.	2606.	7780.	1022.
#3	128700.	5316.	131900.	2612.	7791.	1032.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCV Acquired: 4/23/2016 13:55:56 Type: QC
Method: BC042316 Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2575.	2600.	2600.	2589.	972.2	2543.
Stddev	11.	4.	5.	12.	5.4	6.
%RSD	.4225	.1520	.2040	.4726	.5541	.2423

#1	2571.	2605.	2604.	2603.	966.9	2536.
#2	2566.	2597.	2602.	2582.	972.0	2543.
#3	2587.	2598.	2594.	2582.	977.7	2549.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	1023.	5350.	10560.	9750.
Stddev	2.	3.	14.	97.
%RSD	.1710	.0545	.1329	.9967

#1	1023.	5350.	10570.	9638.
#2	1021.	5353.	10560.	9798.
#3	1025.	5347.	10550.	9813.

Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	1713.4	12577.	2640.3
Stddev	3.8	86.	39.1
%RSD	.21992	.68518	1.4812

#1	1710.9	12490.	2595.2
#2	1717.7	12579.	2663.7
#3	1711.5	12663.	2662.1

Sample Name: CCB Acquired: 4/23/2016 13:59:21 Type: QC
Method: BC042316 Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.2153	-.2207	.0094	.1916	.0745	10.98
Stddev	4.586	1.671	.7656	.2824	.0218	4.31
%RSD	2130.	756.8	8173.	147.4	29.26	39.28
#1	-3.391	1.262	.6938	.5173	.0996	9.095
#2	5.042	.1070	-.8175	.0145	.0601	7.924
#3	-2.298	-2.031	.1517	.0430	.0638	15.91

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.0315	-.1458	.5361	2.034	3.865	15.19
Stddev	.1056	.1631	.3647	.167	5.288	51.46
%RSD	335.4	111.9	68.04	8.192	136.8	338.7
#1	.0694	.0013	.7664	2.213	9.891	73.75
#2	.1129	-.1174	.7262	1.884	-.0016	-5.376
#3	-.0879	-.3213	.1155	2.004	1.706	-22.80

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.8839	.1170	24.06	.5579	.7939	-1.140
Stddev	2.542	.0671	16.40	.2260	.3889	4.009
%RSD	287.6	57.37	68.16	40.51	48.99	351.7
#1	-3.808	.1694	42.85	.8182	1.084	-4.495
#2	.3530	.1401	12.65	.4123	.3520	-2.225
#3	.8034	.0413	16.68	.4431	.9455	3.300

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: CCB Acquired: 4/23/2016 13:59:21 Type: QC
Method: BC042316 Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.136	2.053	.0462	.1307	1.425	1.298
Stddev	2.866	1.157	.3123	.0251	.396	.116
%RSD	252.3	56.36	676.1	19.18	27.77	8.921
#1	3.695	.7181	-.0060	.1248	1.882	1.425
#2	-1.961	2.669	-.2367	.1091	1.215	1.198
#3	1.674	2.771	.3813	.1582	1.180	1.270

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.1671	.1619	1.731	8.513
Stddev	.3297	.0780	.068	16.54
%RSD	197.3	48.19	3.940	194.3
#1	-.0514	.2373	1.769	-1.553
#2	.5464	.1669	1.771	27.61
#3	.0065	.0815	1.652	-.5140

Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	1871.1	13270.	2799.5
Stddev	4.3	60.	48.9
%RSD	.22874	.45541	1.7455
#1	1872.3	13214.	2745.9
#2	1874.6	13334.	2810.9
#3	1866.3	13261.	2841.7

Sample Name: CCVL Acquired: 4/23/2016 14:03:10 Type: QC
Method: BC042316 Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	193.5	13.15	9.152	190.1	1.924	4855.
Stddev	8.3	2.05	.517	1.1	.169	38.
%RSD	4.298	15.59	5.652	.5921	8.777	.7754

#1	199.5	14.80	8.793	188.8	1.768	4819.
#2	197.0	13.80	9.745	191.0	2.103	4853.
#3	184.0	10.85	8.919	190.6	1.899	4894.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.856	47.67	9.997	25.07	F 198.2	4674.
Stddev	.074	.54	.334	.21	3.5	29.
%RSD	1.925	1.124	3.336	.8502	1.759	.6173

#1	3.773	47.08	10.17	24.83	194.3	4646.
#2	3.916	48.12	9.612	25.24	200.8	4704.
#3	3.879	47.81	10.20	25.14	199.6	4672.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value					150.0	
Range					30.50%	

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4737.	15.86	4721.	38.76	9.797	18.14
Stddev	70.	.30	7.	.31	.791	.21
%RSD	1.471	1.874	.1460	.7876	8.074	1.163

#1	4660.	15.56	4726.	38.41	9.070	18.27
#2	4756.	15.86	4723.	38.99	9.681	17.89
#3	4796.	16.15	4713.	38.87	10.64	18.24

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCVL Acquired: 4/23/2016 14:03:10 Type: QC
Method: BC042316 Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	18.32	19.48	48.64	32.26	48.02	18.20
Stddev	2.38	.73	.79	.60	.55	.29
%RSD	13.00	3.745	1.623	1.857	1.147	1.576
#1	20.88	19.38	47.73	31.57	48.65	17.95
#2	17.93	20.26	49.02	32.61	47.60	18.13
#3	16.16	18.81	49.17	32.61	47.83	18.51

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	44.72	19.98	20.76	F -2.652
Stddev	.31	.08	.31	9.570
%RSD	.7011	.4052	1.473	360.8
#1	44.37	19.90	20.46	-9.517
#2	44.97	20.06	20.77	-6.720
#3	44.83	19.98	21.07	8.280

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				200.0
Range				-30.50%

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	1883.4	13157.	2776.2
Stddev	19.6	209.	59.5
%RSD	1.0405	1.5890	2.1447
#1	1906.1	13343.	2799.2
#2	1872.1	13196.	2820.8
#3	1872.1	12931.	2708.6

METALS BATCH WORKSHEET

Lab Name: TestAmerica Edison Job No.: 460-112518-1

SDG No.: _____

Batch Number: 364053 Batch Start Date: 04/22/16 07:41 Batch Analyst: Chen, MandiBatch Method: 3050B Batch End Date: 04/22/16 14:00

Lab Sample ID	Client Sample ID	Method Chain	Basis	CalcMsg	InitialAmount	FinalAmount	ME_LCS-int 00055	ME_LCSS_91 00001	
MB 460-364053/1		3050B, 6010C		CALC NOT SET TO RUN	1.00 g	50 mL			
LCSSRM 460-364053/2		3050B, 6010C		CALC NOT SET TO RUN	1.03 g	50 mL		1.03 g	
460-112480-A-1 DU		3050B, 6010C	T	CALC NOT SET TO RUN	1.06 g	50 mL			
460-112480-A-1 MS		3050B, 6010C	T	CALC NOT SET TO RUN	1.05 g	50 mL	2 mL		
460-112518-A-1	A3	3050B, 6010C	T	CALC NOT SET TO RUN	1.11 g	50 mL			

Batch Notes	
Balance ID	#35
Hydrogen Peroxide ID	0000135237
Logbook ID for diluted Nitric	MPR278
Lot # of Nitric Acid	0000129810
Hot Block ID	#1
Oven, Bath or Block Temperature 1	95c Degrees C
Pipette ID	#65
Thermometer ID	ICP-4 (CF -1)
Digestion Tube/Cup ID	J235667-6562 (50 ml Dg tube)
Uncorrected Temperature	96c Celsius

Basis	Basis Description
T	Total/NA

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

GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job Number: 460-112518-1

SDG No.: _____

Project: DEC Elmont546; Site: E130150

Client Sample ID
A3

Lab Sample ID
460-112518-1

Comments:

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job Number: 460-112518-1
SDG Number: _____
Matrix: Solid Instrument ID: NOEQUIP
Method: Moisture RL Date: 02/15/2007 17:07

Analyte	Wavelength/ Mass	RL (%)	
Percent Moisture		1	
Percent Solids		1	

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job Number: 460-112518-1
SDG Number: _____
Matrix: Solid Instrument ID: NOEQUIP
Method: Moisture XRL Date: 01/01/2007 16:49

Analyte	Wavelength/ Mass	XRL (%)	
Percent Moisture		1	
Percent Solids		1	

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job No.: 460-112518-1

SDG No.:

Instrument ID: NOEQUIP Method: Moisture

Start Date: 04/21/2016 09:23 End Date: 04/21/2016 09:23

[illegible]

Prep Types
T = Total/NA

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Edison Job No.: 460-112518-1

SDG No.: _____

Batch Number: 363846 Batch Start Date: 04/21/16 09:23 Batch Analyst: Armbruster, ChrisBatch Method: Moisture Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	DISH#	DishWeight	SampleMassWet	SampleMassDry		
460-112518-A-1	A3	Moisture	T	39	0.99 g	6.51 g	6.20 g		
460-112516-B-2 DU		Moisture	T	42	0.97 g	6.53 g	5.99 g		

Batch Notes	
Balance ID	104 No Unit
Date samples were placed in the oven	4/21/16
Oven Temp In	105 Degrees C
Time samples were place in the oven	10:52
Date samples were removed from oven	4/22/16
Oven Temp Out	105 Degrees C
Time Samples were removed from oven	08:04
Oven ID	3
Thermometer ID	117021
Uncorrected In Temperature	105 Celsius
Uncorrected Out Temperature	105 Celsius

Basis	Basis Description
T	Total/NA

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

Moisture

Page 1 of 1

Shipping and Receiving Documents

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

CHAIN OF CUSTODY

460-112518 Chain of Custody



777 New Durham Road
Edison, New Jersey 08817
Phone: (732) 549-3900 Fax: (732) 549-3679

Page 1 of 1

Name (for report and invoice) <u>The Henman</u>		Sampler's Name (Printed) <u>EAR-SC</u>		Site/Project Identification <u>DEC-Edmunt 546/Ste: E130150</u>	
Company <u>EAR</u>		P. O. #		State (Location of site): NJ: <input type="checkbox"/> NY: <input checked="" type="checkbox"/> Other: <input type="checkbox"/>	
Address <u>225 Atlantic Ave</u>		Analysis Turnaround Time Standard <input checked="" type="checkbox"/> (6-8Wk) Rush Charges Authorized For: 2 Week <input type="checkbox"/> 1 Week <input type="checkbox"/> Other <input type="checkbox"/>		Regulatory Program: <input type="checkbox"/> DKCP: <input type="checkbox"/>	
City <u>Atlantic</u>	State <u>NY</u>			LAB USE ONLY Job No: <u>112518</u> Project No:	
Phone <u>(31-447-6400)</u>	Fax <u>(31-447-6474)</u>			Sample Numbers <u>-1</u>	
Sample Identification <u>A3</u>	Date <u>4/18/16</u>	Time <u>0940</u>	Matrix <u>S</u>	No. of Cont. <u>1</u>	
Preservation Used: 1 = ICE, 2 = HCl, 3 = H ₂ SO ₄ , 4 = HNO ₃ , 5 = NaOH Soil: <u>6</u> <u>6</u> Water: <u>6</u> <u>6</u>					
Special Instructions <u>ALCOHOL IS DETERMINABLE</u>					
Relinquished by <u>EAR</u>	Company <u>EAR</u>	Date / Time <u>4/18/16 1307</u>	Received by <u>EAR</u>	Company <u>EAR</u>	Water Metals Filtered (Yes/No)? <u>Yes</u>
Relinquished by <u>EAR</u>	Company <u>EAR</u>	Date / Time <u>4/18/16 1710</u>	Received by <u>EAR</u>	Company <u>EAR</u>	
Relinquished by	Company	Date / Time	Received by	Company	
Relinquished by	Company	Date / Time	Received by	Company	

Laboratory Certifications: New Jersey (12028), New York (11452), Pennsylvania (68-522), Connecticut (PH-0200), Rhode Island (132).
Massachusetts (M-NJ312), North Carolina (No. 578)

112578

[illegible]

Date: 4/12/16

Login Sample Receipt Checklist

Client: New York State D.E.C.

Job Number: 460-112518-1

Login Number: 112518
List Number: 1
Creator: Rivera, Kenneth

List Source: TestAmerica Edison

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	Not present
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2°C, IR #6
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	No analysis requiring residual chlorine check assigned.