TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 480-70101-1

Job Description: Altech Specialty Steel; Dunkirk, NY

For:
Horizon Environmental Services
590 A Callery Road
Cranberry Township, PA 16066

Attention: Mr. Scott Clary



Approved for release.
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Project Management Assistant I
11/4/2014 4:42 PM

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11/04/2014

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Table of Contents

Cover Title Page 1

Data Summaries 5

- Report Narrative 5
- Sample Summary 6
- Executive Summary 7
- Method Summary 9
- Method / Analyst Summary 10
- Sample Datasheets 11
- Surrogate Summary 27
- QC Data Summary 30
- Data Qualifiers 41
- QC Association Summary 42
- Lab Chronicle 45

Organic Sample Data 47

- GC/MS VOA 47
  - Method 8260C 47
    - Method 8260C QC Summary 48
    - Method 8260C Sample Data 55
    - Standards Data 66
      - Method 8260C ICAL Data 66
      - Method 8260C CCAL Data 109
    - Raw QC Data 120
      - Method 8260C Tune Data 120
      - Method 8260C Blank Data 126
      - Method 8260C LCS/LCSD Data 134
    - Method 8260C Run Logs 143

Table of Contents

Method 8260C Prep Data 145

GC/MS Semi VOA 146

Method 8270D 146

Method 8270D QC Summary 147

Method 8270D Sample Data 159

Standards Data 175

Method 8270D ICAL Data 175

Method 8270D CCAL Data 210

Raw QC Data 224

Method 8270D Tune Data 224

Method 8270D Blank Data 245

Method 8270D LCS/LCSD Data 255

Method 8270D Run Logs 262

Method 8270D Prep Data 265

GC Semi VOA 266

Method 8082A 266

Method 8082A QC Summary 267

Method 8082A Sample Data 273

Standards Data 287

Method 8082A ICAL Data 287

Method 8082A CCAL Data 401

Raw QC Data 427

Method 8082A Blank Data 427

Method 8082A LCS/LCSD Data 433

Method 8082A Run Logs 441

Method 8082A Prep Data 446

Table of Contents

Inorganic Sample Data 447

Metals Data 447

Met Cover Page 448

Met Sample Data 449

Met QC Data 451

Met ICV/CCV 451

Met Blanks 457

Met ICSA/ICSAB 461

Met LCS/LCSD 463

Met MDL 466

Met IECF 470

Met Linear Ranges 473

Met Preparation Log 475

Met Analysis Run Log 477

Met Raw Data 482

Met Prep Data 792

General Chemistry Data 794

Gen Chem Cover Page 795

Gen Chem MDL 796

Gen Chem Analysis Run Log 798

Gen Chem Prep Data 799

Shipping and Receiving Documents 800

Client Chain of Custody 801

Sample Receipt Checklist 802

Job Narrative
480-70101-1

Receipt
The samples were received on 10/24/2014 4:05 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.0º C.

GC/MS VOA
Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 210136 recovered above the upper control limit for 1,1,2-Trichloro-1,2,2-trifluoroethane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

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

GC/MS Semi VOA
Method(s) 8270D: Six surrogates are used for this analysis. The laboratory's SOP allows 2 of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following sample(s) contained an allowable number of surrogate compounds outside limits: AS-CONC-PIERS (480-70101-1). These results have been reported and qualified.

Method(s) 8270D: The following analyte have been identified, in the reference method and/or via historical data, to be poor and/or erratic performers: Benzaldehyde. This analyte may have a %D >60% if the average %D of all the analytes in the continuing calibration verification (CCV) is 30%: CCVIS 210655/3.

Method(s) 8270D: The continuing calibration verification (CCV) associated with batch 210655 recovered above the upper control limit for Caprolactam. The samples associated with this CCV were non-detects for the affected analyte; therefore, the data have been reported. The following samples are impacted: (CCVIS 480-210655/3).

Method(s) 8270D: The continuing calibration verification (CCV) associated with batch 210927 recovered above the upper control limit for Caprolactam. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: (CCVIS 480-210927/3).

Method(s) 8270D: The following analytes has been identified, in the reference method and/or via historical data, to be poor and/or erratic performers: Benzaldehyde. This analyte may have a %D >60% if the average %D of all the analytes in the continuing calibration verification (CCV) is 30%. (CCVIS 480-210927/3).

Method(s) 8270D: The laboratory control sample (LCS) for preparation batch 210189 recovered outside control limits for the following analyte: Caprolactam. This analyte was biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

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

GC Semi VOA
Method(s) 8082A: All primary data is reported from the ZB-35 column.

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

Metals
Method(s) 6010C: The low level continuing calibration verification (CCVL 480-210921/37) for analytical batch 480-210921 contained total aluminum and zinc above the upper quality control limits. All reported samples associated with this CCVL were either ND for these analytes or contained these analytes at a concentration greater than 10X the value found in the CCVL; therefore, re-analysis of samples AS-CONC-OUTLET (480-70101-2), AS-CONC-PIERS (480-70101-1) was not performed.

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

Organic Prep
Method(s) 3550C: Samples are rocks: AS-CONC-OUTLET (480-70101-2), AS-CONC-PIERS (480-70101-1).

Method(s) 3550C: Samples are rocks: AS-CONC-PIERS (480-70101-1).

Method(s) 3550C: Samples are rocks: AS-CONC-OUTLET (480-70101-2).

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

SAMPLE SUMMARY

Client: Horizon Environmental Services

Job Number: 480-70101-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
480-70101-1	AS-CONC-PIERS	Solid	10/23/2014 1400	10/24/2014 1605
480-70101-2	AS-CONC-OUTLET	Solid	10/23/2014 1430	10/24/2014 1605

EXECUTIVE SUMMARY - Detections

Client: Horizon Environmental Services Job Number: 480-70101-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
480-70101-1	**AS-CONC-PIERS**					
PCB-1248		0.056	J	0.21	mg/Kg	8082A
Aluminum		10300	^	10.8	mg/Kg	6010C
Arsenic		4.7		2.2	mg/Kg	6010C
Barium		44.1		0.54	mg/Kg	6010C
Beryllium		0.34		0.22	mg/Kg	6010C
Cadmium		0.069	J	0.22	mg/Kg	6010C
Calcium		89300	B	53.8	mg/Kg	6010C
Chromium		36.4		0.54	mg/Kg	6010C
Cobalt		5.5		0.54	mg/Kg	6010C
Copper		13.7		1.1	mg/Kg	6010C
Iron		9580		10.8	mg/Kg	6010C
Lead		5.6		1.1	mg/Kg	6010C
Magnesium		6210		21.5	mg/Kg	6010C
Manganese		138		0.22	mg/Kg	6010C
Nickel		35.8		5.4	mg/Kg	6010C
Potassium		602		32.3	mg/Kg	6010C
Selenium		0.50	J B	4.3	mg/Kg	6010C
Sodium		171		151	mg/Kg	6010C
Vanadium		17.2		0.54	mg/Kg	6010C
Zinc		28.4	B ^	2.2	mg/Kg	6010C
Percent Moisture		6.0		0.10	%	Moisture
Percent Solids		94		0.10	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: Horizon Environmental Services Job Number: 480-70101-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
480-70101-2	**AS-CONC-OUTLET**					
Acetone		24		23	ug/Kg	8260C
Benzo(b)fluoranthene		40	J	170	ug/Kg	8270D
PCB-1248		0.077	J	0.20	mg/Kg	8082A
Aluminum		8180	^	9.7	mg/Kg	6010C
Arsenic		6.5		1.9	mg/Kg	6010C
Barium		68.1		0.48	mg/Kg	6010C
Beryllium		0.40		0.19	mg/Kg	6010C
Cadmium		0.070	J	0.19	mg/Kg	6010C
Calcium		70400	B	48.4	mg/Kg	6010C
Chromium		13.8		0.48	mg/Kg	6010C
Cobalt		5.1		0.48	mg/Kg	6010C
Copper		15.7		0.97	mg/Kg	6010C
Iron		14100		9.7	mg/Kg	6010C
Lead		6.8		0.97	mg/Kg	6010C
Magnesium		5030		19.4	mg/Kg	6010C
Manganese		280		0.19	mg/Kg	6010C
Nickel		19.0		4.8	mg/Kg	6010C
Potassium		986		29.0	mg/Kg	6010C
Selenium		2.1	J B	3.9	mg/Kg	6010C
Sodium		139		135	mg/Kg	6010C
Vanadium		13.6		0.48	mg/Kg	6010C
Zinc		28.2	B ^	1.9	mg/Kg	6010C
Percent Moisture		2.8		0.10	%	Moisture
Percent Solids		97		0.10	%	Moisture

METHOD SUMMARY

Client: Horizon Environmental Services | Job Number: 480-70101-1

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
Volatile Organic Compounds by GC/MS	TAL BUF	SW846 8260C	
Closed System Purge and Trap	TAL BUF		SW846 5035
Semivolatile Organic Compounds (GC/MS)	TAL BUF	SW846 8270D	
Ultrasonic Extraction	TAL BUF		SW846 3550C
Polychlorinated Biphenyls (PCBs) by Gas Chromatography	TAL BUF	SW846 8082A	
Ultrasonic Extraction	TAL BUF		SW846 3550C
Metals (ICP)	TAL BUF	SW846 6010C	
Preparation, Metals	TAL BUF		SW846 3050B
Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)	TAL BUF	SW846 7471B	
Preparation, Mercury	TAL BUF		SW846 7471B
Percent Moisture	TAL BUF	EPA Moisture	

Lab References:

TAL BUF = TestAmerica Buffalo

Method References:

EPA = US Environmental Protection Agency

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

METHOD / ANALYST SUMMARY

Client: Horizon Environmental Services

Job Number: 480-70101-1

Method	Analyst	Analyst ID
SW846 8260C	Dias, Nicole M	NMD1
SW846 8270D	Wolf, Leah M	LMW
SW846 8082A	Evers, David L	DLE
SW846 6010C	Brandt, Todd R	TRB
SW846 7471B	Kasprzyk, Layne R	LRK
EPA Moisture	Wallace, Cameron	cw

Client: Horizon Environmental Services | Job Number: 480-70101-1

Client Sample ID: **AS-CONC-PIERS**

Lab Sample ID: 480-70101-1 | Date Sampled: 10/23/2014 1400
Client Matrix: Solid | % Moisture: 6.0 | Date Received: 10/24/2014 1605

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-210136	Instrument ID:	HP5973F
Prep Method:	5035	Prep Batch:	480-210253	Lab File ID:	F3361.D
Dilution:	1.0			Initial Weight/Volume:	5.43 g
Analysis Date:	10/27/2014 1327			Final Weight/Volume:	5 mL
Prep Date:	10/27/2014 1158				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1-Trichloroethane		ND		0.36	4.9
1,1,2,2-Tetrachloroethane		ND		0.79	4.9
1,1,2-Trichloroethane		ND		0.64	4.9
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		1.1	4.9
1,1-Dichloroethane		ND		0.60	4.9
1,1-Dichloroethene		ND		0.60	4.9
1,2,4-Trichlorobenzene		ND		0.30	4.9
1,2-Dibromo-3-Chloropropane		ND		2.4	4.9
1,2-Dibromoethane		ND		0.63	4.9
1,2-Dichlorobenzene		ND		0.38	4.9
1,2-Dichloroethane		ND		0.25	4.9
1,2-Dichloropropane		ND		2.4	4.9
1,3-Dichlorobenzene		ND		0.25	4.9
1,4-Dichlorobenzene		ND		0.69	4.9
2-Hexanone		ND		2.4	24
2-Butanone (MEK)		ND		1.8	24
4-Methyl-2-pentanone (MIBK)		ND		1.6	24
Acetone		ND		4.1	24
Benzene		ND		0.24	4.9
Bromodichloromethane		ND		0.66	4.9
Bromoform		ND		2.4	4.9
Bromomethane		ND		0.44	4.9
Carbon disulfide		ND		2.4	4.9
Carbon tetrachloride		ND		0.47	4.9
Chlorobenzene		ND		0.65	4.9
Dibromochloromethane		ND		0.63	4.9
Chloroethane		ND		1.1	4.9
Chloroform		ND		0.30	4.9
Chloromethane		ND		0.30	4.9
cis-1,2-Dichloroethene		ND		0.63	4.9
cis-1,3-Dichloropropene		ND		0.71	4.9
Cyclohexane		ND		0.69	4.9
Dichlorodifluoromethane		ND		0.40	4.9
Ethylbenzene		ND		0.34	4.9
Isopropylbenzene		ND		0.74	4.9
Methyl acetate		ND		3.0	4.9
Methyl tert-butyl ether		ND		0.48	4.9
Methylcyclohexane		ND		0.74	4.9
Methylene Chloride		ND		2.3	4.9
Styrene		ND		0.24	4.9
Tetrachloroethene		ND		0.66	4.9
Toluene		ND		0.37	4.9
trans-1,2-Dichloroethene		ND		0.51	4.9
trans-1,3-Dichloropropene		ND		2.2	4.9
Trichloroethene		ND		1.1	4.9
Trichlorofluoromethane		ND		0.46	4.9

Client: Horizon Environmental Services | Job Number: 480-70101-1

Client Sample ID: **AS-CONC-PIERS**

Lab Sample ID: 480-70101-1 | Date Sampled: 10/23/2014 1400
Client Matrix: Solid | % Moisture: 6.0 | Date Received: 10/24/2014 1605

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-210136	Instrument ID:	HP5973F
Prep Method:	5035	Prep Batch:	480-210253	Lab File ID:	F3361.D
Dilution:	1.0			Initial Weight/Volume:	5.43 g
Analysis Date:	10/27/2014 1327			Final Weight/Volume:	5 mL
Prep Date:	10/27/2014 1158				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Vinyl chloride		ND		0.60	4.9
Xylenes, Total		ND		0.82	9.8

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	100		64 - 126
Toluene-d8 (Surr)	104		71 - 125
4-Bromofluorobenzene (Surr)	103		72 - 126
Dibromofluoromethane (Surr)	102		60 - 140

Client: Horizon Environmental Services | Job Number: 480-70101-1

Client Sample ID: **AS-CONC-OUTLET**

Lab Sample ID: 480-70101-2 | Date Sampled: 10/23/2014 1430
Client Matrix: Solid | % Moisture: 2.8 | Date Received: 10/24/2014 1605

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-210136	Instrument ID:	HP5973F
Prep Method:	5035	Prep Batch:	480-210253	Lab File ID:	F3362.D
Dilution:	1.0			Initial Weight/Volume:	5.596 g
Analysis Date:	10/27/2014 1353			Final Weight/Volume:	5 mL
Prep Date:	10/27/2014 1158				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1-Trichloroethane		ND		0.33	4.6
1,1,2,2-Tetrachloroethane		ND		0.75	4.6
1,1,2-Trichloroethane		ND		0.60	4.6
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		1.0	4.6
1,1-Dichloroethane		ND		0.56	4.6
1,1-Dichloroethene		ND		0.56	4.6
1,2,4-Trichlorobenzene		ND		0.28	4.6
1,2-Dibromo-3-Chloropropane		ND		2.3	4.6
1,2-Dibromoethane		ND		0.59	4.6
1,2-Dichlorobenzene		ND		0.36	4.6
1,2-Dichloroethane		ND		0.23	4.6
1,2-Dichloropropane		ND		2.3	4.6
1,3-Dichlorobenzene		ND		0.24	4.6
1,4-Dichlorobenzene		ND		0.64	4.6
2-Hexanone		ND		2.3	23
2-Butanone (MEK)		ND		1.7	23
4-Methyl-2-pentanone (MIBK)		ND		1.5	23
Acetone		24		3.9	23
Benzene		ND		0.23	4.6
Bromodichloromethane		ND		0.62	4.6
Bromoform		ND		2.3	4.6
Bromomethane		ND		0.41	4.6
Carbon disulfide		ND		2.3	4.6
Carbon tetrachloride		ND		0.44	4.6
Chlorobenzene		ND		0.61	4.6
Dibromochloromethane		ND		0.59	4.6
Chloroethane		ND		1.0	4.6
Chloroform		ND		0.28	4.6
Chloromethane		ND		0.28	4.6
cis-1,2-Dichloroethene		ND		0.59	4.6
cis-1,3-Dichloropropene		ND		0.66	4.6
Cyclohexane		ND		0.64	4.6
Dichlorodifluoromethane		ND		0.38	4.6
Ethylbenzene		ND		0.32	4.6
Isopropylbenzene		ND		0.69	4.6
Methyl acetate		ND		2.8	4.6
Methyl tert-butyl ether		ND		0.45	4.6
Methylcyclohexane		ND		0.70	4.6
Methylene Chloride		ND		2.1	4.6
Styrene		ND		0.23	4.6
Tetrachloroethene		ND		0.62	4.6
Toluene		ND		0.35	4.6
trans-1,2-Dichloroethene		ND		0.47	4.6
trans-1,3-Dichloropropene		ND		2.0	4.6
Trichloroethene		ND		1.0	4.6
Trichlorofluoromethane		ND		0.43	4.6

Client: Horizon Environmental Services | Job Number: 480-70101-1

Client Sample ID: **AS-CONC-OUTLET**

Lab Sample ID: 480-70101-2 | Date Sampled: 10/23/2014 1430
Client Matrix: Solid | % Moisture: 2.8 | Date Received: 10/24/2014 1605

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-210136	Instrument ID:	HP5973F
Prep Method:	5035	Prep Batch:	480-210253	Lab File ID:	F3362.D
Dilution:	1.0			Initial Weight/Volume:	5.596 g
Analysis Date:	10/27/2014 1353			Final Weight/Volume:	5 mL
Prep Date:	10/27/2014 1158				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Vinyl chloride		ND		0.56	4.6
Xylenes, Total		ND		0.77	9.2

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	103		64 - 126
Toluene-d8 (Surr)	104		71 - 125
4-Bromofluorobenzene (Surr)	105		72 - 126
Dibromofluoromethane (Surr)	84		60 - 140

Client: Horizon Environmental Services | Job Number: 480-70101-1

Client Sample ID: **AS-CONC-PIERS**

Lab Sample ID: 480-70101-1 | Date Sampled: 10/23/2014 1400
Client Matrix: Solid | % Moisture: 6.0 | Date Received: 10/24/2014 1605

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	480-210655	Instrument ID:	HP5973X
Prep Method:	3550C	Prep Batch:	480-210189	Lab File ID:	X00905578.D
Dilution:	1.0			Initial Weight/Volume:	+30.23 g
Analysis Date:	10/29/2014 1557			Final Weight/Volume:	1 mL
Prep Date:	10/27/2014 0844			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Biphenyl		ND		26	180
bis (2-chloroisopropyl) ether		ND		36	180
2,4,5-Trichlorophenol		ND		49	180
2,4,6-Trichlorophenol		ND		36	180
2,4-Dichlorophenol		ND		19	180
2,4-Dimethylphenol		ND		43	180
2,4-Dinitrophenol		ND		110	350
2,4-Dinitrotoluene		ND		37	180
2,6-Dinitrotoluene		ND		21	180
2-Chloronaphthalene		ND		30	180
2-Chlorophenol		ND		33	180
2-Methylnaphthalene		ND		36	180
2-Methylphenol		ND		21	180
2-Nitroaniline		ND		26	350
2-Nitrophenol		ND		51	180
3,3'-Dichlorobenzidine		ND		210	350
3-Nitroaniline		ND		50	350
4,6-Dinitro-2-methylphenol		ND		180	350
4-Bromophenyl phenyl ether		ND		25	180
4-Chloro-3-methylphenol		ND		44	180
4-Chloroaniline		ND		44	180
4-Chlorophenyl phenyl ether		ND		22	180
4-Methylphenol		ND		21	350
4-Nitroaniline		ND		94	350
4-Nitrophenol		ND		130	350
Acenaphthene		ND		26	180
Acenaphthylene		ND		23	180
Acetophenone		ND		24	180
Anthracene		ND		44	180
Atrazine		ND		62	180
Benzaldehyde		ND		140	180
Benzo(a)anthracene		ND		18	180
Benzo(a)pyrene		ND		26	180
Benzo(b)fluoranthene		ND		29	180
Benzo(g,h,i)perylene		ND		19	180
Benzo(k)fluoranthene		ND		23	180
Bis(2-chloroethoxy)methane		ND		38	180
Bis(2-chloroethyl)ether		ND		23	180
Bis(2-ethylhexyl) phthalate		ND		61	180
Butyl benzyl phthalate		ND		30	180
Caprolactam		ND	*	54	180
Carbazole		ND		21	180
Chrysene		ND		40	180
Di-n-butyl phthalate		ND		31	180
Di-n-octyl phthalate		ND		21	180
Dibenz(a,h)anthracene		ND		32	180

Client: Horizon Environmental Services | Job Number: 480-70101-1

Client Sample ID: **AS-CONC-PIERS**

Lab Sample ID: 480-70101-1 | Date Sampled: 10/23/2014 1400
Client Matrix: Solid | % Moisture: 6.0 | Date Received: 10/24/2014 1605

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	480-210655	Instrument ID:	HP5973X
Prep Method:	3550C	Prep Batch:	480-210189	Lab File ID:	X00905578.D
Dilution:	1.0			Initial Weight/Volume:	+30.23 g
Analysis Date:	10/29/2014 1557			Final Weight/Volume:	1 mL
Prep Date:	10/27/2014 0844			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibenzofuran		ND		21	180
Diethyl phthalate		ND		23	180
Dimethyl phthalate		ND		21	180
Fluoranthene		ND		19	180
Fluorene		ND		21	180
Hexachlorobenzene		ND		24	180
Hexachlorobutadiene		ND		26	180
Hexachlorocyclopentadiene		ND		24	180
Hexachloroethane		ND		23	180
Indeno(1,2,3-cd)pyrene		ND		22	180
Isophorone		ND		38	180
N-Nitrosodi-n-propylamine		ND		31	180
N-Nitrosodiphenylamine		ND		150	180
Naphthalene		ND		23	180
Nitrobenzene		ND		20	180
Pentachlorophenol		ND		180	350
Phenanthrene		ND		26	180
Phenol		ND		27	180
Pyrene		ND		21	180

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4,6-Tribromophenol	34	X	39 - 146
2-Fluorobiphenyl	92		37 - 120
2-Fluorophenol	72		18 - 120
Nitrobenzene-d5	84		34 - 132
p-Terphenyl-d14	101		65 - 153
Phenol-d5	81		11 - 120

Client: Horizon Environmental Services | Job Number: 480-70101-1

Client Sample ID: **AS-CONC-OUTLET**

Lab Sample ID: 480-70101-2 | Date Sampled: 10/23/2014 1430
Client Matrix: Solid | % Moisture: 2.8 | Date Received: 10/24/2014 1605

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	480-210655	Instrument ID:	HP5973X
Prep Method:	3550C	Prep Batch:	480-210189	Lab File ID:	X00905579.D
Dilution:	1.0			Initial Weight/Volume:	+30.46 g
Analysis Date:	10/29/2014 1620			Final Weight/Volume:	1 mL
Prep Date:	10/27/2014 0844			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Biphenyl		ND		25	170
bis (2-chloroisopropyl) ether		ND		34	170
2,4,5-Trichlorophenol		ND		47	170
2,4,6-Trichlorophenol		ND		34	170
2,4-Dichlorophenol		ND		18	170
2,4-Dimethylphenol		ND		42	170
2,4-Dinitrophenol		ND		100	330
2,4-Dinitrotoluene		ND		35	170
2,6-Dinitrotoluene		ND		20	170
2-Chloronaphthalene		ND		28	170
2-Chlorophenol		ND		31	170
2-Methylnaphthalene		ND		34	170
2-Methylphenol		ND		20	170
2-Nitroaniline		ND		25	330
2-Nitrophenol		ND		49	170
3,3'-Dichlorobenzidine		ND		200	330
3-Nitroaniline		ND		48	330
4,6-Dinitro-2-methylphenol		ND		170	330
4-Bromophenyl phenyl ether		ND		24	170
4-Chloro-3-methylphenol		ND		43	170
4-Chloroaniline		ND		43	170
4-Chlorophenyl phenyl ether		ND		21	170
4-Methylphenol		ND		20	330
4-Nitroaniline		ND		90	330
4-Nitrophenol		ND		120	330
Acenaphthene		ND		25	170
Acenaphthylene		ND		22	170
Acetophenone		ND		23	170
Anthracene		ND		43	170
Atrazine		ND		60	170
Benzaldehyde		ND		140	170
Benzo(a)anthracene		ND		17	170
Benzo(a)pyrene		ND		25	170
Benzo(b)fluoranthene		40	J	27	170
Benzo(g,h,i)perylene		ND		18	170
Benzo(k)fluoranthene		ND		22	170
Bis(2-chloroethoxy)methane		ND		36	170
Bis(2-chloroethyl)ether		ND		22	170
Bis(2-ethylhexyl) phthalate		ND		59	170
Butyl benzyl phthalate		ND		28	170
Caprolactam		ND	*	52	170
Carbazole		ND		20	170
Chrysene		ND		39	170
Di-n-butyl phthalate		ND		29	170
Di-n-octyl phthalate		ND		20	170
Dibenz(a,h)anthracene		ND		30	170

Client: Horizon Environmental Services | Job Number: 480-70101-1

Client Sample ID: **AS-CONC-OUTLET**

Lab Sample ID: 480-70101-2 | Date Sampled: 10/23/2014 1430
Client Matrix: Solid | % Moisture: 2.8 | Date Received: 10/24/2014 1605

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	480-210655	Instrument ID:	HP5973X
Prep Method:	3550C	Prep Batch:	480-210189	Lab File ID:	X00905579.D
Dilution:	1.0			Initial Weight/Volume:	+30.46 g
Analysis Date:	10/29/2014 1620			Final Weight/Volume:	1 mL
Prep Date:	10/27/2014 0844			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibenzofuran		ND		20	170
Diethyl phthalate		ND		22	170
Dimethyl phthalate		ND		20	170
Fluoranthene		ND		18	170
Fluorene		ND		20	170
Hexachlorobenzene		ND		23	170
Hexachlorobutadiene		ND		25	170
Hexachlorocyclopentadiene		ND		23	170
Hexachloroethane		ND		22	170
Indeno(1,2,3-cd)pyrene		ND		21	170
Isophorone		ND		36	170
N-Nitrosodi-n-propylamine		ND		29	170
N-Nitrosodiphenylamine		ND		140	170
Naphthalene		ND		22	170
Nitrobenzene		ND		19	170
Pentachlorophenol		ND		170	330
Phenanthrene		ND		25	170
Phenol		ND		26	170
Pyrene		ND		20	170

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4,6-Tribromophenol	85		39 - 146
2-Fluorobiphenyl	93		37 - 120
2-Fluorophenol	81		18 - 120
Nitrobenzene-d5	82		34 - 132
p-Terphenyl-d14	103		65 - 153
Phenol-d5	81		11 - 120

Client: Horizon Environmental Services | Job Number: 480-70101-1

Client Sample ID: **AS-CONC-PIERS**

Lab Sample ID: 480-70101-1 | Date Sampled: 10/23/2014 1400
Client Matrix: Solid | % Moisture: 6.0 | Date Received: 10/24/2014 1605

8082A Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082A	Analysis Batch:	480-210455	Instrument ID:	HP5890-12
Prep Method:	3550C	Prep Batch:	480-210224	Initial Weight/Volume:	+2.48 g
Dilution:	1.0			Final Weight/Volume:	10 mL
Analysis Date:	10/28/2014 1107			Injection Volume:	1 uL
Prep Date:	10/27/2014 1026			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
PCB-1016		ND		0.042	0.21
PCB-1221		ND		0.042	0.21
PCB-1232		ND		0.042	0.21
PCB-1242		ND		0.042	0.21
PCB-1248		0.056	J	0.042	0.21
PCB-1254		ND		0.10	0.21
PCB-1260		ND		0.10	0.21

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	111		47 - 176
Tetrachloro-m-xylene	105		46 - 175

Client: Horizon Environmental Services | Job Number: 480-70101-1

Client Sample ID: **AS-CONC-PIERS**

Lab Sample ID: 480-70101-1 | Date Sampled: 10/23/2014 1400
Client Matrix: Solid | % Moisture: 6.0 | Date Received: 10/24/2014 1605

8082A Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082A	Analysis Batch:	480-210455	Instrument ID:	HP5890-12
Prep Method:	3550C	Prep Batch:	480-210224	Initial Weight/Volume:	+2.48 g
Dilution:	1.0			Final Weight/Volume:	10 mL
Analysis Date:	10/28/2014 1107			Injection Volume:	1 uL
Prep Date:	10/27/2014 1026			Result Type:	SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	133		47 - 176
Tetrachloro-m-xylene	106		46 - 175

Client: Horizon Environmental Services | Job Number: 480-70101-1

Client Sample ID: **AS-CONC-OUTLET**

Lab Sample ID: 480-70101-2 | Date Sampled: 10/23/2014 1430
Client Matrix: Solid | % Moisture: 2.8 | Date Received: 10/24/2014 1605

8082A Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082A	Analysis Batch:	480-210455	Instrument ID:	HP5890-12
Prep Method:	3550C	Prep Batch:	480-210224	Initial Weight/Volume:	+2.56 g
Dilution:	1.0			Final Weight/Volume:	10 mL
Analysis Date:	10/28/2014 1122			Injection Volume:	1 uL
Prep Date:	10/27/2014 1026			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
PCB-1016		ND		0.039	0.20
PCB-1221		ND		0.039	0.20
PCB-1232		ND		0.039	0.20
PCB-1242		ND		0.039	0.20
PCB-1248		0.077	J	0.039	0.20
PCB-1254		ND		0.094	0.20
PCB-1260		ND		0.094	0.20

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	111		47 - 176
Tetrachloro-m-xylene	107		46 - 175

Client: Horizon Environmental Services | Job Number: 480-70101-1

Client Sample ID: **AS-CONC-OUTLET**

Lab Sample ID: 480-70101-2 | Date Sampled: 10/23/2014 1430
Client Matrix: Solid | % Moisture: 2.8 | Date Received: 10/24/2014 1605

8082A Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082A	Analysis Batch:	480-210455	Instrument ID:	HP5890-12
Prep Method:	3550C	Prep Batch:	480-210224	Initial Weight/Volume:	+2.56 g
Dilution:	1.0			Final Weight/Volume:	10 mL
Analysis Date:	10/28/2014 1122			Injection Volume:	1 uL
Prep Date:	10/27/2014 1026			Result Type:	SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	134		47 - 176
Tetrachloro-m-xylene	107		46 - 175

Client: Horizon Environmental Services | Job Number: 480-70101-1

Client Sample ID: **AS-CONC-PIERS**

Lab Sample ID: 480-70101-1 | Date Sampled: 10/23/2014 1400
Client Matrix: Solid | % Moisture: 6.0 | Date Received: 10/24/2014 1605

6010C Metals (ICP)

Analysis Method:	6010C	Analysis Batch:	480-210921	Instrument ID:	ICAP1
Prep Method:	3050B	Prep Batch:	480-210509	Lab File ID:	I1102914B-8.asc
Dilution:	1.0			Initial Weight/Volume:	+0.4947 g
Analysis Date:	10/30/2014 0411			Final Weight/Volume:	50 mL
Prep Date:	10/28/2014 1103				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		10300	^	4.7	10.8
Antimony		ND		0.43	16.1
Arsenic		4.7		0.43	2.2
Barium		44.1		0.12	0.54
Beryllium		0.34		0.030	0.22
Cadmium		0.069	J	0.032	0.22
Calcium		89300	B	3.5	53.8
Chromium		36.4		0.22	0.54
Cobalt		5.5		0.054	0.54
Copper		13.7		0.23	1.1
Iron		9580		1.2	10.8
Lead		5.6		0.26	1.1
Magnesium		6210		1.0	21.5
Manganese		138		0.034	0.22
Nickel		35.8		0.25	5.4
Potassium		602		21.5	32.3
Selenium		0.50	J B	0.43	4.3
Silver		ND		0.22	0.65
Sodium		171		14.0	151
Thallium		ND		0.32	6.5
Vanadium		17.2		0.12	0.54
Zinc		28.4	B ^	0.16	2.2

7471B Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analysis Method:	7471B	Analysis Batch:	480-210285	Instrument ID:	LEEMAN3
Prep Method:	7471B	Prep Batch:	480-210199	Lab File ID:	J10274S1.PRN
Dilution:	1.0			Initial Weight/Volume:	+0.6438 g
Analysis Date:	10/27/2014 1306			Final Weight/Volume:	50 mL
Prep Date:	10/27/2014 1105				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Hg		ND		0.0080	0.020

Client: Horizon Environmental Services | Job Number: 480-70101-1

Client Sample ID: **AS-CONC-OUTLET**

Lab Sample ID: 480-70101-2 | Date Sampled: 10/23/2014 1430
Client Matrix: Solid | % Moisture: 2.8 | Date Received: 10/24/2014 1605

6010C Metals (ICP)

Analysis Method:	6010C	Analysis Batch:	480-210921	Instrument ID:	ICAP1
Prep Method:	3050B	Prep Batch:	480-210509	Lab File ID:	I1102914B-8.asc
Dilution:	1.0			Initial Weight/Volume:	+0.5315 g
Analysis Date:	10/30/2014 0414			Final Weight/Volume:	50 mL
Prep Date:	10/28/2014 1103				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		8180	^	4.3	9.7
Antimony		ND		0.39	14.5
Arsenic		6.5		0.39	1.9
Barium		68.1		0.11	0.48
Beryllium		0.40		0.027	0.19
Cadmium		0.070	J	0.029	0.19
Calcium		70400	B	3.2	48.4
Chromium		13.8		0.19	0.48
Cobalt		5.1		0.048	0.48
Copper		15.7		0.20	0.97
Iron		14100		1.1	9.7
Lead		6.8		0.23	0.97
Magnesium		5030		0.90	19.4
Manganese		280		0.031	0.19
Nickel		19.0		0.22	4.8
Potassium		986		19.4	29.0
Selenium		2.1	J B	0.39	3.9
Silver		ND		0.19	0.58
Sodium		139		12.6	135
Thallium		ND		0.29	5.8
Vanadium		13.6		0.11	0.48
Zinc		28.2	B ^	0.15	1.9

7471B Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analysis Method:	7471B	Analysis Batch:	480-210285	Instrument ID:	LEEMAN3
Prep Method:	7471B	Prep Batch:	480-210199	Lab File ID:	J10274S1.PRN
Dilution:	1.0			Initial Weight/Volume:	+0.6539 g
Analysis Date:	10/27/2014 1308			Final Weight/Volume:	50 mL
Prep Date:	10/27/2014 1105				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Hg		ND		0.0076	0.019

General Chemistry

Client Sample ID: **AS-CONC-PIERS**

Lab Sample ID: 480-70101-1 Date Sampled: 10/23/2014 1400

Client Matrix: Solid Date Received: 10/24/2014 1605

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	6.0		%	0.10	0.10	1.0	Moisture
Analysis Batch: 480-210003	Analysis Date: 10/24/2014 2036						DryWt Corrected: N
Percent Solids	94		%	0.10	0.10	1.0	Moisture
Analysis Batch: 480-210003	Analysis Date: 10/24/2014 2036						DryWt Corrected: N

General Chemistry

Client Sample ID: **AS-CONC-OUTLET**

Lab Sample ID: 480-70101-2 Date Sampled: 10/23/2014 1430

Client Matrix: Solid Date Received: 10/24/2014 1605

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	2.8		%	0.10	0.10	1.0	Moisture
Analysis Batch: 480-210003	Analysis Date: 10/24/2014 2036						DryWt Corrected: N
Percent Solids	97		%	0.10	0.10	1.0	Moisture
Analysis Batch: 480-210003	Analysis Date: 10/24/2014 2036						DryWt Corrected: N

Client: Horizon Environmental Services

Job Number: 480-70101-1

Surrogate Recovery Report

8260C Volatile Organic Compounds by GC/MS

Client Matrix: Solid

Lab Sample ID	Client Sample ID	DBFM %Rec	DCA %Rec	TOL %Rec	BFB %Rec
480-70101-1	AS-CONC-PIERS	102	100	104	103
480-70101-2	AS-CONC-OUTLET	84	103	104	105
MB 480-210136/8		106	98	106	103
LCS 480-210136/6		108	102	103	106

Surrogate	Acceptance Limits
DBFM = Dibromofluoromethane (Surr)	60-140
DCA = 1,2-Dichloroethane-d4 (Surr)	64-126
TOL = Toluene-d8 (Surr)	71-125
BFB = 4-Bromofluorobenzene (Surr)	72-126

Client: Horizon Environmental Services

Job Number: 480-70101-1

Surrogate Recovery Report

8270D Semivolatile Organic Compounds (GC/MS)

Client Matrix: Solid

Lab Sample ID	Client Sample ID	2FP %Rec	PHL %Rec	NBZ %Rec	FBP %Rec	TBP %Rec	TPH %Rec
480-70101-1	AS-CONC-PIERS	72	81	84	92	34X	101
480-70101-2	AS-CONC-OUTLET	81	81	82	93	85	103
MB 480-210189/1-A		90	91	92	98	88	111
LCS 480-210189/2-A		91	92	93	97	104	105

Surrogate	Acceptance Limits
2FP = 2-Fluorophenol	18-120
PHL = Phenol-d5	11-120
NBZ = Nitrobenzene-d5	34-132
FBP = 2-Fluorobiphenyl	37-120
TBP = 2,4,6-Tribromophenol	39-146
TPH = p-Terphenyl-d14	65-153

Client: Horizon Environmental Services

Job Number: 480-70101-1

Surrogate Recovery Report

8082A Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Matrix: Solid

Lab Sample ID	Client Sample ID	TCX1 %Rec	TCX2 %Rec	DCB1 %Rec	DCB2 %Rec
480-70101-1	AS-CONC-PIERS	106	105	133	111
480-70101-2	AS-CONC-OUTLET	107	107	134	111
MB 480-210224/1-A		99	96	122	107
LCS 480-210224/2-A		129	120	148	119

Surrogate	Acceptance Limits
TCX = Tetrachloro-m-xylene	46-175
DCB = DCB Decachlorobiphenyl	47-176

Client: Horizon Environmental Services

Job Number: 480-70101-1

Method Blank - Batch: 480-210136

Method: 8260C
Preparation: N/A

Lab Sample ID:	MB 480-210136/8	Analysis Batch:	480-210136	Instrument ID:	HP5973F
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	F3357.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	10/27/2014 1128	Units:	ug/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
1,1,1-Trichloroethane	ND		0.36	5.0
1,1,2,2-Tetrachloroethane	ND		0.81	5.0
1,1,2-Trichloroethane	ND		0.65	5.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.1	5.0
1,1-Dichloroethane	ND		0.61	5.0
1,1-Dichloroethene	ND		0.61	5.0
1,2,4-Trichlorobenzene	ND		0.30	5.0
1,2-Dibromo-3-Chloropropane	ND		2.5	5.0
1,2-Dibromoethane	ND		0.64	5.0
1,2-Dichlorobenzene	ND		0.39	5.0
1,2-Dichloroethane	ND		0.25	5.0
1,2-Dichloropropane	ND		2.5	5.0
1,3-Dichlorobenzene	ND		0.26	5.0
1,4-Dichlorobenzene	ND		0.70	5.0
2-Hexanone	ND		2.5	25
2-Butanone (MEK)	ND		1.8	25
4-Methyl-2-pentanone (MIBK)	ND		1.6	25
Acetone	ND		4.2	25
Benzene	ND		0.25	5.0
Bromodichloromethane	ND		0.67	5.0
Bromoform	ND		2.5	5.0
Bromomethane	ND		0.45	5.0
Carbon disulfide	ND		2.5	5.0
Carbon tetrachloride	ND		0.48	5.0
Chlorobenzene	ND		0.66	5.0
Dibromochloromethane	ND		0.64	5.0
Chloroethane	ND		1.1	5.0
Chloroform	ND		0.31	5.0
Chloromethane	ND		0.30	5.0
cis-1,2-Dichloroethene	ND		0.64	5.0
cis-1,3-Dichloropropene	ND		0.72	5.0
Cyclohexane	ND		0.70	5.0
Dichlorodifluoromethane	ND		0.41	5.0
Ethylbenzene	ND		0.35	5.0
Isopropylbenzene	ND		0.75	5.0
Methyl acetate	ND		3.0	5.0
Methyl tert-butyl ether	ND		0.49	5.0
Methylcyclohexane	ND		0.76	5.0
Methylene Chloride	ND		2.3	5.0
Styrene	ND		0.25	5.0
Tetrachloroethene	ND		0.67	5.0
Toluene	ND		0.38	5.0
trans-1,2-Dichloroethene	ND		0.52	5.0
trans-1,3-Dichloropropene	ND		2.2	5.0
Trichloroethene	ND		1.1	5.0

Client: Horizon Environmental Services Job Number: 480-70101-1

Method Blank - Batch: 480-210136

Method: 8260C
Preparation: N/A

Lab Sample ID:	MB 480-210136/8	Analysis Batch:	480-210136	Instrument ID:	HP5973F
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	F3357.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	10/27/2014 1128	Units:	ug/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Trichlorofluoromethane	ND		0.47	5.0
Vinyl chloride	ND		0.61	5.0
Xylenes, Total	0.899	J	0.84	10

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	98	64 - 126
Toluene-d8 (Surr)	106	71 - 125
4-Bromofluorobenzene (Surr)	103	72 - 126
Dibromofluoromethane (Surr)	106	60 - 140

Lab Control Sample - Batch: 480-210136

Method: 8260C
Preparation: N/A

Lab Sample ID:	LCS 480-210136/6	Analysis Batch:	480-210136	Instrument ID:	HP5973F
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	F3355.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	10/27/2014 1037	Units:	ug/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
1,1-Dichloroethane	50.0	50.5	101	73 - 126	
1,1-Dichloroethene	50.0	40.9	82	59 - 125	
1,2-Dichlorobenzene	50.0	49.9	100	75 - 120	
1,2-Dichloroethane	50.0	48.9	98	77 - 122	
Benzene	50.0	50.1	100	79 - 127	
Chlorobenzene	50.0	51.8	104	76 - 124	
cis-1,2-Dichloroethene	50.0	51.9	104	81 - 117	
Ethylbenzene	50.0	50.0	100	80 - 120	
Methyl tert-butyl ether	50.0	45.9	92	63 - 125	
Tetrachloroethene	50.0	52.0	104	74 - 122	
Toluene	50.0	49.5	99	74 - 128	
trans-1,2-Dichloroethene	50.0	51.4	103	78 - 126	
Trichloroethene	50.0	51.5	103	77 - 129	

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	102	64 - 126
Toluene-d8 (Surr)	103	71 - 125
4-Bromofluorobenzene (Surr)	106	72 - 126
Dibromofluoromethane (Surr)	108	60 - 140

Client: Horizon Environmental Services

Job Number: 480-70101-1

Method Blank - Batch: 480-210189

Method: 8270D
Preparation: 3550C

Lab Sample ID:	MB 480-210189/1-A	Analysis Batch:	480-210927	Instrument ID:	HP5973X
Client Matrix:	Solid	Prep Batch:	480-210189	Lab File ID:	X00905595.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	+30.61 g
Analysis Date:	10/30/2014 1009	Units:	ug/Kg	Final Weight/Volume:	1 mL
Prep Date:	10/27/2014 0844			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Biphenyl	ND		25	170
bis (2-chloroisopropyl) ether	ND		33	170
2,4,5-Trichlorophenol	ND		45	170
2,4,6-Trichlorophenol	ND		33	170
2,4-Dichlorophenol	ND		18	170
2,4-Dimethylphenol	ND		40	170
2,4-Dinitrophenol	ND		100	320
2,4-Dinitrotoluene	ND		34	170
2,6-Dinitrotoluene	ND		20	170
2-Chloronaphthalene	ND		27	170
2-Chlorophenol	ND		30	170
2-Methylnaphthalene	ND		33	170
2-Methylphenol	ND		20	170
2-Nitroaniline	ND		25	320
2-Nitrophenol	ND		47	170
3,3'-Dichlorobenzidine	ND		200	320
3-Nitroaniline	ND		46	320
4,6-Dinitro-2-methylphenol	ND		170	320
4-Bromophenyl phenyl ether	ND		24	170
4-Chloro-3-methylphenol	ND		41	170
4-Chloroaniline	ND		41	170
4-Chlorophenyl phenyl ether	ND		21	170
4-Methylphenol	ND		20	320
4-Nitroaniline	ND		87	320
4-Nitrophenol	ND		120	320
Acenaphthene	ND		25	170
Acenaphthylene	ND		22	170
Acetophenone	ND		23	170
Anthracene	ND		41	170
Atrazine	ND		58	170
Benzaldehyde	ND		130	170
Benzo(a)anthracene	ND		17	170
Benzo(a)pyrene	ND		25	170
Benzo(b)fluoranthene	ND		26	170
Benzo(g,h,i)perylene	ND		18	170
Benzo(k)fluoranthene	ND		22	170
Bis(2-chloroethoxy)methane	ND		35	170
Bis(2-chloroethyl)ether	ND		22	170
Bis(2-ethylhexyl) phthalate	ND		57	170
Butyl benzyl phthalate	ND		27	170
Caprolactam	ND		50	170
Carbazole	ND		20	170
Chrysene	ND		37	170
Di-n-butyl phthalate	ND		28	170
Di-n-octyl phthalate	ND		20	170

Client: Horizon Environmental Services

Job Number: 480-70101-1

Method Blank - Batch: 480-210189

Method: 8270D
Preparation: 3550C

Lab Sample ID:	MB 480-210189/1-A	Analysis Batch:	480-210927	Instrument ID:	HP5973X
Client Matrix:	Solid	Prep Batch:	480-210189	Lab File ID:	X00905595.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	+30.61 g
Analysis Date:	10/30/2014 1009	Units:	ug/Kg	Final Weight/Volume:	1 mL
Prep Date:	10/27/2014 0844			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Dibenz(a,h)anthracene	ND		29	170
Dibenzofuran	ND		20	170
Diethyl phthalate	ND		22	170
Dimethyl phthalate	ND		20	170
Fluoranthene	ND		18	170
Fluorene	ND		20	170
Hexachlorobenzene	ND		23	170
Hexachlorobutadiene	ND		25	170
Hexachlorocyclopentadiene	ND		23	170
Hexachloroethane	ND		22	170
Indeno(1,2,3-cd)pyrene	ND		21	170
Isophorone	ND		35	170
N-Nitrosodi-n-propylamine	ND		28	170
N-Nitrosodiphenylamine	ND		140	170
Naphthalene	ND		22	170
Nitrobenzene	ND		19	170
Pentachlorophenol	ND		170	320
Phenanthrene	ND		25	170
Phenol	ND		25	170
Pyrene	ND		20	170

Surrogate	% Rec	Acceptance Limits
2,4,6-Tribromophenol	88	39 - 146
2-Fluorobiphenyl	98	37 - 120
2-Fluorophenol	90	18 - 120
Nitrobenzene-d5	92	34 - 132
p-Terphenyl-d14	111	65 - 153
Phenol-d5	91	11 - 120

Client: Horizon Environmental Services

Job Number: 480-70101-1

Lab Control Sample - Batch: 480-210189

Method: 8270D
Preparation: 3550C

Lab Sample ID:	LCS 480-210189/2-A	Analysis Batch:	480-210655	Instrument ID:	HP5973X
Client Matrix:	Solid	Prep Batch:	480-210189	Lab File ID:	X00905565.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	+30.58 g
Analysis Date:	10/29/2014 1041	Units:	ug/Kg	Final Weight/Volume:	1 mL
Prep Date:	10/27/2014 0844			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
2,4-Dinitrotoluene	1640	1670	102	55 - 125	
2-Chlorophenol	1640	1530	93	38 - 120	
4-Chloro-3-methylphenol	1640	1660	102	49 - 125	
4-Nitrophenol	3270	3110	95	43 - 137	
Acenaphthene	1640	1580	97	53 - 120	
Bis(2-ethylhexyl) phthalate	1640	1710	105	61 - 133	
Fluorene	1640	1560	96	63 - 126	
Hexachloroethane	1640	1300	80	41 - 120	
N-Nitrosodi-n-propylamine	1640	1420	87	46 - 120	
Pentachlorophenol	3270	2660	81	33 - 136	
Phenol	1640	1420	87	36 - 120	
Pyrene	1640	1710	105	51 - 133	

Surrogate	% Rec	Acceptance Limits
2,4,6-Tribromophenol	104	39 - 146
2-Fluorobiphenyl	97	37 - 120
2-Fluorophenol	91	18 - 120
Nitrobenzene-d5	93	34 - 132
p-Terphenyl-d14	105	65 - 153
Phenol-d5	92	11 - 120

Method Blank - Batch: 480-210224

Method: 8082A
Preparation: 3550C

Lab Sample ID:	MB 480-210224/1-A	Analysis Batch:	480-210455	Instrument ID:	HP5890-12
Client Matrix:	Solid	Prep Batch:	480-210224	Lab File ID:	12_312_164.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	+2.96 g
Analysis Date:	10/28/2014 0922	Units:	mg/Kg	Final Weight/Volume:	10 mL
Prep Date:	10/27/2014 1026			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Result	Qual	MDL	RL
PCB-1016	ND		0.033	0.17
PCB-1221	ND		0.033	0.17
PCB-1232	ND		0.033	0.17
PCB-1242	ND		0.033	0.17
PCB-1248	ND		0.033	0.17
PCB-1254	ND		0.079	0.17
PCB-1260	ND		0.079	0.17

Surrogate	% Rec	Acceptance Limits
DCB Decachlorobiphenyl	107	47 - 176
Tetrachloro-m-xylene	96	46 - 175

Surrogate	% Rec	Acceptance Limits
DCB Decachlorobiphenyl	122	47 - 176
Tetrachloro-m-xylene	99	46 - 175

Lab Control Sample - Batch: 480-210224

Method: 8082A
Preparation: 3550C

Lab Sample ID:	LCS 480-210224/2-A	Analysis Batch:	480-210455	Instrument ID:	HP5890-12
Client Matrix:	Solid	Prep Batch:	480-210224	Lab File ID:	12_312_165.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	+2.71 g
Analysis Date:	10/28/2014 0937	Units:	mg/Kg	Final Weight/Volume:	10 mL
Prep Date:	10/27/2014 1026			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
PCB-1016	1.85	2.30	125	51 - 185	
PCB-1260	1.85	2.37	128	61 - 184	

Surrogate	% Rec	Acceptance Limits
DCB Decachlorobiphenyl	119	47 - 176
Tetrachloro-m-xylene	120	46 - 175

Surrogate	% Rec	Acceptance Limits
DCB Decachlorobiphenyl	148	47 - 176
Tetrachloro-m-xylene	129	46 - 175

Client: Horizon Environmental Services

Job Number: 480-70101-1

Method Blank - Batch: 480-210509

Method: 6010C
Preparation: 3050B

Lab Sample ID:	MB 480-210509/1-A	Analysis Batch:	480-210921	Instrument ID:	ICAP1
Client Matrix:	Solid	Prep Batch:	480-210509	Lab File ID:	I1102914B-8.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	+0.4762 g
Analysis Date:	10/30/2014 0346	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	10/28/2014 1103				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Aluminum	ND		4.6	10.5
Antimony	ND		0.42	15.7
Arsenic	ND		0.42	2.1
Barium	ND		0.12	0.52
Beryllium	ND		0.029	0.21
Cadmium	ND		0.031	0.21
Calcium	4.89	J	3.5	52.5
Chromium	ND		0.21	0.52
Cobalt	ND		0.052	0.52
Copper	ND		0.22	1.0
Iron	ND		1.2	10.5
Lead	ND		0.25	1.0
Magnesium	ND		0.97	21.0
Manganese	ND		0.034	0.21
Nickel	ND		0.24	5.2
Potassium	ND		21.0	31.5
Selenium	0.946	J	0.42	4.2
Silver	ND		0.21	0.63
Sodium	ND		13.6	147
Thallium	ND		0.31	6.3
Vanadium	ND		0.12	0.52
Zinc	0.403	J	0.16	2.1

Client: Horizon Environmental Services Job Number: 480-70101-1

LCS-Certified Reference Material/ LCSD - Certified Reference Material Recovery Report - Batch: 480-210509

Method: 6010C
Preparation: 3050B

LCS Lab Sample ID:	LCSSRM 480-210509/2-A	Analysis Batch:	480-210921	Instrument ID:	ICAP1
Client Matrix:	Solid	Prep Batch:	480-210509	Lab File ID:	I1102914B-8.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	+0.4921 g
Analysis Date:	10/30/2014 0349	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	10/28/2014 1103				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCDSRM 480-210509/3-A	Analysis Batch:	480-210921	Instrument ID:	ICAP1
Client Matrix:	Solid	Prep Batch:	480-210509	Lab File ID:	I1102914B-8.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	+0.4919 g
Analysis Date:	10/30/2014 0351	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	10/28/2014 1103				
Leach Date:	N/A				

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Aluminum	77.3	85.1	41.6 - 157.9	10	20		
Antimony	68.7	75.3	23.0 - 254.6	9	20		
Arsenic	84.6	91.2	70.9 - 129.8	7	20		
Barium	83.2	89.0	73.7 - 126.3	7	20		
Beryllium	74.0	80.8	67.0 - 111.4	9	20		
Cadmium	83.4	91.0	73.0 - 126.3	9	20		
Calcium	79.3	89.3	73.9 - 125.9	12	20		
Chromium	83.6	91.6	69.7 - 129.9	9	20		
Cobalt	89.9	98.2	74.4 - 125.8	9	20		
Copper	85.4	95.2	73.2 - 129.2	11	20		
Iron	71.3	78.8	30.5 - 169.9	10	20		
Lead	85.8	94.3	75.6 - 124.8	9	20		
Magnesium	82.2	87.5	68.3 - 131.7	6	20		
Manganese	82.5	88.5	77.4 - 122.6	7	20		
Nickel	88.8	96.7	74.3 - 126.7	9	20		
Potassium	81.4	88.9	62.5 - 137.2	9	20		
Selenium	84.2	91.5	67.3 - 132.1	8	20		
Silver	88.7	96.0	66.4 - 133.9	8	20		
Sodium	82.6	91.3	56.8 - 143.4	10	20		
Thallium	88.8	95.0	69.5 - 130.5	7	20		

Client: Horizon Environmental Services

Job Number: 480-70101-1

LCS-Certified Reference Material/ LCSD - Certified Reference Material Recovery Report - Batch: 480-210509

Method: 6010C
Preparation: 3050B

LCS Lab Sample ID:	LCSSRM 480-210509/2-A	Analysis Batch:	480-210921	Instrument ID:	ICAP1
Client Matrix:	Solid	Prep Batch:	480-210509	Lab File ID:	I1102914B-8.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	+0.4921 g
Analysis Date:	10/30/2014 0349	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	10/28/2014 1103				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCDSRM 480-210509/3-A	Analysis Batch:	480-210921	Instrument ID:	ICAP1
Client Matrix:	Solid	Prep Batch:	480-210509	Lab File ID:	I1102914B-8.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	+0.4919 g
Analysis Date:	10/30/2014 0351	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	10/28/2014 1103				
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Vanadium	83.5	91.8	67.5 - 131.9	10	20		
Zinc	83.6	90.8	71.9 - 128.4	8	20		

Client: Horizon Environmental Services

Job Number: 480-70101-1

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 480-210509

Method: 6010C
Preparation: 3050B

LCS Lab Sample ID:	LCSSRM 480-210509/2-A	Units: mg/Kg		LCSD Lab Sample ID:	LCDSRM 480-210509/3-A
Client Matrix:	Solid			Client Matrix:	Solid
Dilution:	1.0			Dilution:	1.0
Analysis Date:	10/30/2014 0349			Analysis Date:	10/30/2014 0351
Prep Date:	10/28/2014 1103			Prep Date:	10/28/2014 1103
Leach Date:	N/A			Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Aluminum	8880	8880	6863	7559
Antimony	110	110	75.40	82.63
Arsenic	153	153	129.8	139.9
Barium	266	266	221.6	237.0
Beryllium	151	151	112.1	122.4
Cadmium	154	155	128.8	140.6
Calcium	6500	6510	5158	5809
Chromium	119	119	99.44	108.9
Cobalt	69.8	69.8	62.72	68.57
Copper	69.7	69.7	59.54	66.40
Iron	12500	12500	8909	9852
Lead	258	258	221.5	243.4
Magnesium	3660	3660	3007	3202
Manganese	572	572	471.8	506.5
Nickel	320	320	284.1	309.6
Potassium	3090	3090	2515	2746
Selenium	165	165	138.6	150.7
Silver	45.0	45.0	39.94	43.21
Sodium	758	758	626.1	692.6
Thallium	263	263	233.7	250.1
Vanadium	118	118	98.39	108.3
Zinc	311	311	259.9	282.3

Client: Horizon Environmental Services

Job Number: 480-70101-1

Method Blank - Batch: 480-210199

Method: 7471B
Preparation: 7471B

Lab Sample ID:	MB 480-210199/1-A	Analysis Batch:	480-210285	Instrument ID:	LEEMAN3
Client Matrix:	Solid	Prep Batch:	480-210199	Lab File ID:	J10274S1.PRN
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	+0.6438 g
Analysis Date:	10/27/2014 1301	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	10/27/2014 1105				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Hg	ND		0.0075	0.019

LCS-Certified Reference Material - Batch: 480-210199

Method: 7471B
Preparation: 7471B

Lab Sample ID:	LCSSRM 480-210199/2-A	Analysis Batch:	480-210285	Instrument ID:	LEEMAN3
Client Matrix:	Solid	Prep Batch:	480-210199	Lab File ID:	J10274S1.PRN
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	+0.0496 g
Analysis Date:	10/27/2014 1302	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	10/27/2014 1105				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Hg	3.98	4.13	103.8	51.0 - 149.0	

DATA REPORTING QUALIFIERS

Client: Horizon Environmental Services Job Number: 480-70101-1

Lab Section	Qualifier	Description
GC/MS VOA		
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
GC/MS Semi VOA		
	*	LCS or LCSD exceeds the control limits
	E	Result exceeded calibration range.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
	X	Surrogate is outside control limits
GC Semi VOA		
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
Metals		
	B	Compound was found in the blank and sample.
	^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC exceeds the control limits.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Client: Horizon Environmental Services Job Number: 480-70101-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:480-210136					
LCS 480-210136/6	Lab Control Sample	T	Solid	8260C	
MB 480-210136/8	Method Blank	T	Solid	8260C	
480-70101-1	AS-CONC-PIERS	T	Solid	8260C	480-210253
480-70101-2	AS-CONC-OUTLET	T	Solid	8260C	480-210253
Prep Batch: 480-210253					
480-70101-1	AS-CONC-PIERS	T	Solid	5035	
480-70101-2	AS-CONC-OUTLET	T	Solid	5035	

Report Basis
T = Total

GC/MS Semi VOA					
Prep Batch: 480-210189					
LCS 480-210189/2-A	Lab Control Sample	T	Solid	3550C	
MB 480-210189/1-A	Method Blank	T	Solid	3550C	
480-70101-1	AS-CONC-PIERS	T	Solid	3550C	
480-70101-2	AS-CONC-OUTLET	T	Solid	3550C	
Analysis Batch:480-210655					
LCS 480-210189/2-A	Lab Control Sample	T	Solid	8270D	480-210189
480-70101-1	AS-CONC-PIERS	T	Solid	8270D	480-210189
480-70101-2	AS-CONC-OUTLET	T	Solid	8270D	480-210189
Analysis Batch:480-210927					
MB 480-210189/1-A	Method Blank	T	Solid	8270D	480-210189

Report Basis
T = Total

Client: Horizon Environmental Services Job Number: 480-70101-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC Semi VOA					
Prep Batch: 480-210224					
LCS 480-210224/2-A	Lab Control Sample	T	Solid	3550C	
MB 480-210224/1-A	Method Blank	T	Solid	3550C	
480-70101-1	AS-CONC-PIERS	T	Solid	3550C	
480-70101-2	AS-CONC-OUTLET	T	Solid	3550C	
Analysis Batch:480-210455					
LCS 480-210224/2-A	Lab Control Sample	T	Solid	8082A	480-210224
MB 480-210224/1-A	Method Blank	T	Solid	8082A	480-210224
480-70101-1	AS-CONC-PIERS	T	Solid	8082A	480-210224
480-70101-2	AS-CONC-OUTLET	T	Solid	8082A	480-210224

Report Basis
T = Total

Client: Horizon Environmental Services Job Number: 480-70101-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 480-210199					
LCSSRM 480-210199/2-A	LCS-Certified Reference Material	T	Solid	7471B	
MB 480-210199/1-A	Method Blank	T	Solid	7471B	
480-70101-1	AS-CONC-PIERS	T	Solid	7471B	
480-70101-2	AS-CONC-OUTLET	T	Solid	7471B	
Analysis Batch:480-210285					
LCSSRM 480-210199/2-A	LCS-Certified Reference Material	T	Solid	7471B	480-210199
MB 480-210199/1-A	Method Blank	T	Solid	7471B	480-210199
480-70101-1	AS-CONC-PIERS	T	Solid	7471B	480-210199
480-70101-2	AS-CONC-OUTLET	T	Solid	7471B	480-210199
Prep Batch: 480-210509					
LCSSRM 480-210509/2-A	LCS-Certified Reference Material	T	Solid	3050B	
LCDSRM 480-210509/3-A	LCSD - Certified Reference Material	T	Solid	3050B	
MB 480-210509/1-A	Method Blank	T	Solid	3050B	
480-70101-1	AS-CONC-PIERS	T	Solid	3050B	
480-70101-2	AS-CONC-OUTLET	T	Solid	3050B	
Analysis Batch:480-210921					
LCSSRM 480-210509/2-A	LCS-Certified Reference Material	T	Solid	6010C	480-210509
LCDSRM 480-210509/3-A	LCSD - Certified Reference Material	T	Solid	6010C	480-210509
MB 480-210509/1-A	Method Blank	T	Solid	6010C	480-210509
480-70101-1	AS-CONC-PIERS	T	Solid	6010C	480-210509
480-70101-2	AS-CONC-OUTLET	T	Solid	6010C	480-210509

Report Basis
T = Total

General Chemistry

Analysis Batch:480-210003					
480-70101-1	AS-CONC-PIERS	T	Solid	Moisture	
480-70101-2	AS-CONC-OUTLET	T	Solid	Moisture	

Report Basis
T = Total

Client: Horizon Environmental Services Job Number: 480-70101-1

Laboratory Chronicle

Lab ID: 480-70101-1 **Client ID:** AS-CONC-PIERS

Sample Date/Time: 10/23/2014 14:00 Received Date/Time: 10/24/2014 16:05

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5035	480-70101-C-1-A		480-210136	480-210253	10/27/2014 11:58	1	TAL BUF	NMD1
A:8260C	480-70101-C-1-A		480-210136	480-210253	10/27/2014 13:27	1	TAL BUF	NMD1
P:3550C	480-70101-B-1-A		480-210655	480-210189	10/27/2014 08:44	1	TAL BUF	CAM
A:8270D	480-70101-B-1-A		480-210655	480-210189	10/29/2014 15:57	1	TAL BUF	LMW
P:3550C	480-70101-B-1-B		480-210455	480-210224	10/27/2014 10:26	1	TAL BUF	GVF
A:8082A	480-70101-B-1-B		480-210455	480-210224	10/28/2014 11:07	1	TAL BUF	DLE
P:3050B	480-70101-B-1-C		480-210921	480-210509	10/28/2014 11:03	1	TAL BUF	SLB
A:6010C	480-70101-B-1-C		480-210921	480-210509	10/30/2014 04:11	1	TAL BUF	TRB
P:7471B	480-70101-F-1-A		480-210285	480-210199	10/27/2014 11:05	1	TAL BUF	LRK
A:7471B	480-70101-F-1-A		480-210285	480-210199	10/27/2014 13:06	1	TAL BUF	LRK
A:Moisture	480-70101-A-1		480-210003		10/24/2014 20:36	1	TAL BUF	cw

Lab ID: 480-70101-2 **Client ID:** AS-CONC-OUTLET

Sample Date/Time: 10/23/2014 14:30 Received Date/Time: 10/24/2014 16:05

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5035	480-70101-C-2-A		480-210136	480-210253	10/27/2014 11:58	1	TAL BUF	NMD1
A:8260C	480-70101-C-2-A		480-210136	480-210253	10/27/2014 13:53	1	TAL BUF	NMD1
P:3550C	480-70101-B-2-A		480-210655	480-210189	10/27/2014 08:44	1	TAL BUF	CAM
A:8270D	480-70101-B-2-A		480-210655	480-210189	10/29/2014 16:20	1	TAL BUF	LMW
P:3550C	480-70101-B-2-B		480-210455	480-210224	10/27/2014 10:26	1	TAL BUF	GVF
A:8082A	480-70101-B-2-B		480-210455	480-210224	10/28/2014 11:22	1	TAL BUF	DLE
P:3050B	480-70101-B-2-C		480-210921	480-210509	10/28/2014 11:03	1	TAL BUF	SLB
A:6010C	480-70101-B-2-C		480-210921	480-210509	10/30/2014 04:14	1	TAL BUF	TRB
P:7471B	480-70101-F-2-A		480-210285	480-210199	10/27/2014 11:05	1	TAL BUF	LRK
A:7471B	480-70101-F-2-A		480-210285	480-210199	10/27/2014 13:08	1	TAL BUF	LRK
A:Moisture	480-70101-A-2		480-210003		10/24/2014 20:36	1	TAL BUF	cw

Lab ID: MB **Client ID:** N/A

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:8260C	MB 480-210136/8		480-210136		10/27/2014 11:28	1	TAL BUF	NMD1
P:3550C	MB 480-210189/1-A		480-210927	480-210189	10/27/2014 08:44	1	TAL BUF	CAM
A:8270D	MB 480-210189/1-A		480-210927	480-210189	10/30/2014 10:09	1	TAL BUF	LMW
P:3550C	MB 480-210224/1-A		480-210455	480-210224	10/27/2014 10:26	1	TAL BUF	GVF
A:8082A	MB 480-210224/1-A		480-210455	480-210224	10/28/2014 09:22	1	TAL BUF	DLE
P:3050B	MB 480-210509/1-A		480-210921	480-210509	10/28/2014 11:03	1	TAL BUF	SLB
A:6010C	MB 480-210509/1-A		480-210921	480-210509	10/30/2014 03:46	1	TAL BUF	TRB
P:7471B	MB 480-210199/1-A		480-210285	480-210199	10/27/2014 11:05	1	TAL BUF	LRK
A:7471B	MB 480-210199/1-A		480-210285	480-210199	10/27/2014 13:01	1	TAL BUF	LRK

Client: Horizon Environmental Services Job Number: 480-70101-1

Laboratory Chronicle

Lab ID: LCS **Client ID:** N/A

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:8260C	LCS 480-210136/6		480-210136		10/27/2014 10:37	1	TAL BUF	NMD1
P:3550C	LCS 480-210189/2-A		480-210655	480-210189	10/27/2014 08:44	1	TAL BUF	CAM
A:8270D	LCS 480-210189/2-A		480-210655	480-210189	10/29/2014 10:41	1	TAL BUF	LMW
P:3550C	LCS 480-210224/2-A		480-210455	480-210224	10/27/2014 10:26	1	TAL BUF	GVF
A:8082A	LCS 480-210224/2-A		480-210455	480-210224	10/28/2014 09:37	1	TAL BUF	DLE

Lab ID: LCSSRM **Client ID:** N/A

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3050B	LCSSRM 480-210509/2-A		480-210921	480-210509	10/28/2014 11:03	1	TAL BUF	SLB
A:6010C	LCSSRM 480-210509/2-A		480-210921	480-210509	10/30/2014 03:49	1	TAL BUF	TRB
P:7471B	LCSSRM 480-210199/2-A		480-210285	480-210199	10/27/2014 11:05	1	TAL BUF	LRK
A:7471B	LCSSRM 480-210199/2-A		480-210285	480-210199	10/27/2014 13:02	1	TAL BUF	LRK

Lab ID: LCDSRM **Client ID:** N/A

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3050B	LCDSRM 480-210509/3-A		480-210921	480-210509	10/28/2014 11:03	1	TAL BUF	SLB
A:6010C	LCDSRM 480-210509/3-A		480-210921	480-210509	10/30/2014 03:51	1	TAL BUF	TRB

Lab References:
TAL BUF = TestAmerica Buffalo

Method 8260C

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

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-70101-1

SDG No.:

Matrix: Solid Level: Low

GC Column (1): ZB-624 (60) ID: 0.25 (mm)

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TOL #	BFB #
AS-CONC-PIERS	480-70101-1	102	100	104	103
AS-CONC-OUTLET	480-70101-2	84	103	104	105
	MB 480-210136/8	106	98	106	103
	LCS 480-210136/6	108	102	103	106

	QC LIMITS
DBFM = Dibromofluoromethane (Surr)	60-140
DCA = 1,2-Dichloroethane-d4 (Surr)	64-126
TOL = Toluene-d8 (Surr)	71-125
BFB = 4-Bromofluorobenzene (Surr)	72-126

Column to be used to flag recovery values

FORM II 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-70101-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: F3355.D

Lab ID: LCS 480-210136/6 Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
1,1-Dichloroethane	50.0	50.5	101	73-126	
1,1-Dichloroethene	50.0	40.9	82	59-125	
1,2-Dichlorobenzene	50.0	49.9	100	75-120	
1,2-Dichloroethane	50.0	48.9	98	77-122	
Benzene	50.0	50.1	100	79-127	
Chlorobenzene	50.0	51.8	104	76-124	
cis-1,2-Dichloroethene	50.0	51.9	104	81-117	
Ethylbenzene	50.0	50.0	100	80-120	
Methyl tert-butyl ether	50.0	45.9	92	63-125	
Tetrachloroethene	50.0	52.0	104	74-122	
Toluene	50.0	49.5	99	74-128	
trans-1,2-Dichloroethene	50.0	51.4	103	78-126	
Trichloroethene	50.0	51.5	103	77-129	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-70101-1

SDG No.:

Lab File ID: F3357.D Lab Sample ID: MB 480-210136/8

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

Instrument ID: HP5973F Date Analyzed: 10/27/2014 11:28

GC Column: ZB-624 (60) ID: 0.25(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 480-210136/6	F3355.D	10/27/2014 10:37
AS-CONC-PIERS	480-70101-1	F3361.D	10/27/2014 13:27
AS-CONC-OUTLET	480-70101-2	F3362.D	10/27/2014 13:53

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

Lab Name: TestAmerica Buffalo Job No.: 480-70101-1

SDG No.:

Lab File ID: F2882.D BFB Injection Date: 10/10/2014

Instrument ID: HP5973F BFB Injection Time: 12:54

Analysis Batch No.: 207100

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	15.9	
75	30.0 - 60.0 % of mass 95	49.3	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.1	
173	Less than 2.0 % of mass 174	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	88.6	
175	5.0 - 9.0 % of mass 174	7.0	(7.9)1
176	95.0 - 101.0 % of mass 174	87.7	(98.9)1
177	5.0 - 9.0 % of mass 176	6.0	(6.9)2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 480-207100/4	F2884.D	10/10/2014	13:44
	IC 480-207100/5	F2885.D	10/10/2014	14:10
	IC 480-207100/6	F2886.D	10/10/2014	14:35
	IC 480-207100/7	F2887.D	10/10/2014	15:00
	ICIS 480-207100/8	F2888.D	10/10/2014	15:25
	IC 480-207100/9	F2889.D	10/10/2014	15:50
	IC 480-207100/10	F2890.D	10/10/2014	16:15

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

Lab Name: TestAmerica Buffalo Job No.: 480-70101-1

SDG No.:

Lab File ID: F3351.D BFB Injection Date: 10/27/2014

Instrument ID: HP5973F BFB Injection Time: 08:52

Analysis Batch No.: 210136

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	15.0	
75	30.0 - 60.0 % of mass 95	44.8	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.1	
173	Less than 2.0 % of mass 174	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	92.7	
175	5.0 - 9.0 % of mass 174	6.9	(7.5)1
176	95.0 - 101.0 % of mass 174	89.1	(96.1)1
177	5.0 - 9.0 % of mass 176	6.3	(7.1)2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 480-210136/4	F3354.D	10/27/2014	10:12
	LCS 480-210136/6	F3355.D	10/27/2014	10:37
	MB 480-210136/8	F3357.D	10/27/2014	11:28
AS-CONC-PIERS	480-70101-1	F3361.D	10/27/2014	13:27
AS-CONC-OUTLET	480-70101-2	F3362.D	10/27/2014	13:53

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

Lab Name: TestAmerica Buffalo Job No.: 480-70101-1

SDG No.:

Sample No.: ICIS 480-207100/8 Date Analyzed: 10/10/2014 15:25

Instrument ID: HP5973F GC Column: ZB-624 (60) ID: 0.25(mm)

Lab File ID (Standard): F2888.D Heated Purge: (Y/N) N

Calibration ID: 20641

		FB		CBZ		DCB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		130873	5.44	251407	8.27	248875	10.60
UPPER LIMIT		261746	5.94	502814	8.77	497750	11.10
LOWER LIMIT		65437	4.94	125704	7.77	124438	10.10
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCVIS 480-210136/4		92371	5.44	182745	8.27	188487	10.60

FB = Fluorobenzene (IS)
CBZ = Chlorobenzene-d5
DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260C

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

Lab Name: TestAmerica Buffalo Job No.: 480-70101-1

SDG No.:

Sample No.: CCVIS 480-210136/4 Date Analyzed: 10/27/2014 10:12

Instrument ID: HP5973F GC Column: ZB-624 (60) ID: 0.25(mm)

Lab File ID (Standard): F3354.D Heated Purge: (Y/N) N

Calibration ID: 20641

		FB		CBZ		DCB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		92371	5.44	182745	8.27	188487	10.60
UPPER LIMIT		184742	5.94	365490	8.77	376974	11.10
LOWER LIMIT		46186	4.94	91373	7.77	94244	10.10
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 480-210136/6		92234	5.44	184057	8.27	191822	10.60
MB 480-210136/8		92857	5.44	182266	8.27	182934	10.60
480-70101-1	AS-CONC-PIERS	88027	5.44	176887	8.27	179884	10.60
480-70101-2	AS-CONC-OUTLET	87393	5.44	178093	8.27	178786	10.60

FB = Fluorobenzene (IS)
CBZ = Chlorobenzene-d5
DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260C

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-70101-1

SDG No.:

Client Sample ID: AS-CONC-PIERS | Lab Sample ID: 480-70101-1

Matrix: Solid | Lab File ID: F3361.D

Analysis Method: 8260C | Date Collected: 10/23/2014 14:00

Sample wt/vol: 5.43(g) | Date Analyzed: 10/27/2014 13:27

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (60) ID: 0.25(mm)

% Moisture: 6.0 | Level: (low/med) Low

Analysis Batch No.: 210136 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		4.9	0.36
79-34-5	1,1,2,2-Tetrachloroethane	ND		4.9	0.79
79-00-5	1,1,2-Trichloroethane	ND		4.9	0.64
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.9	1.1
75-34-3	1,1-Dichloroethane	ND		4.9	0.60
75-35-4	1,1-Dichloroethene	ND		4.9	0.60
120-82-1	1,2,4-Trichlorobenzene	ND		4.9	0.30
96-12-8	1,2-Dibromo-3-Chloropropane	ND		4.9	2.4
106-93-4	1,2-Dibromoethane	ND		4.9	0.63
95-50-1	1,2-Dichlorobenzene	ND		4.9	0.38
107-06-2	1,2-Dichloroethane	ND		4.9	0.25
78-87-5	1,2-Dichloropropane	ND		4.9	2.4
541-73-1	1,3-Dichlorobenzene	ND		4.9	0.25
106-46-7	1,4-Dichlorobenzene	ND		4.9	0.69
591-78-6	2-Hexanone	ND		24	2.4
78-93-3	2-Butanone (MEK)	ND		24	1.8
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		24	1.6
67-64-1	Acetone	ND		24	4.1
71-43-2	Benzene	ND		4.9	0.24
75-27-4	Bromodichloromethane	ND		4.9	0.66
75-25-2	Bromoform	ND		4.9	2.4
74-83-9	Bromomethane	ND		4.9	0.44
75-15-0	Carbon disulfide	ND		4.9	2.4
56-23-5	Carbon tetrachloride	ND		4.9	0.47
108-90-7	Chlorobenzene	ND		4.9	0.65
124-48-1	Dibromochloromethane	ND		4.9	0.63
75-00-3	Chloroethane	ND		4.9	1.1
67-66-3	Chloroform	ND		4.9	0.30
74-87-3	Chloromethane	ND		4.9	0.30
156-59-2	cis-1,2-Dichloroethene	ND		4.9	0.63
10061-01-5	cis-1,3-Dichloropropene	ND		4.9	0.71
110-82-7	Cyclohexane	ND		4.9	0.69
75-71-8	Dichlorodifluoromethane	ND		4.9	0.40
100-41-4	Ethylbenzene	ND		4.9	0.34
98-82-8	Isopropylbenzene	ND		4.9	0.74

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-70101-1

SDG No.:

Client Sample ID: AS-CONC-PIERS | Lab Sample ID: 480-70101-1

Matrix: Solid | Lab File ID: F3361.D

Analysis Method: 8260C | Date Collected: 10/23/2014 14:00

Sample wt/vol: 5.43(g) | Date Analyzed: 10/27/2014 13:27

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (60) ID: 0.25(mm)

% Moisture: 6.0 | Level: (low/med) Low

Analysis Batch No.: 210136 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		4.9	3.0
1634-04-4	Methyl tert-butyl ether	ND		4.9	0.48
108-87-2	Methylcyclohexane	ND		4.9	0.74
75-09-2	Methylene Chloride	ND		4.9	2.3
100-42-5	Styrene	ND		4.9	0.24
127-18-4	Tetrachloroethene	ND		4.9	0.66
108-88-3	Toluene	ND		4.9	0.37
156-60-5	trans-1,2-Dichloroethene	ND		4.9	0.51
10061-02-6	trans-1,3-Dichloropropene	ND		4.9	2.2
79-01-6	Trichloroethene	ND		4.9	1.1
75-69-4	Trichlorofluoromethane	ND		4.9	0.46
75-01-4	Vinyl chloride	ND		4.9	0.60
1330-20-7	Xylenes, Total	ND		9.8	0.82

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		64-126
2037-26-5	Toluene-d8 (Surr)	104		71-125
460-00-4	4-Bromofluorobenzene (Surr)	103		72-126
1868-53-7	Dibromofluoromethane (Surr)	102		60-140

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973F\20141027-36738.b\F3361.D
Lims ID: 480-70101-C-1-A Lab Sample ID: 480-70101-1
Client ID: AS-CONC-PIERS
Sample Type: Client
Inject. Date: 27-Oct-2014 13:27:30 ALS Bottle#: 13 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-70101-C-1-A
Misc. Info.: 480-0036738-012480-0036738-012
Operator ID: NMD Instrument ID: HP5973F

Method: \\Bufchrom\ChromData\HP5973F\20141027-36738.b\F-8260 SOIL.m
Limit Group: MV - 8260C ICAL
Last Update: 27-Oct-2014 14:25:34 Calib Date: 10-Oct-2014 16:15:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5973F\20141010-36203.b\F2890.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK025

First Level Reviewer: diasn Date: 27-Oct-2014 14:25:34

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/kg	Flags
* 153 Fluorobenzene (IS)	70	5.444	5.444	0.000	99	88027	50.0	
* 2 Chlorobenzene-d5	82	8.267	8.267	0.000	84	176887	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.597	10.597	0.000	93	179884	50.0	
$ 154 Dibromofluoromethane (Surr	113	4.915	4.915	0.000	95	85562	50.8	
$ 4 1,2-Dichloroethane-d4 (Sur	67	5.207	5.207	0.000	0	52312	50.2	
$ 5 Toluene-d8 (Surr)	98	6.825	6.825	0.000	92	381304	52.1	
$ 6 4-Bromofluorobenzene (Surr	174	9.490	9.490	0.000	95	127203	51.4	
10 Dichlorodifluoromethane	85		1.928				ND	
12 Chloromethane	50		2.104				ND	
13 Vinyl chloride	62		2.208				ND	
14 Bromomethane	94		2.500				ND	
15 Chloroethane	64		2.579				ND	
17 Trichlorofluoromethane	101		2.749				ND	
21 1,1,2-Trichloro-1,2,2-trif	101		3.145				ND	
22 1,1-Dichloroethene	96		3.181				ND	
23 Acetone	43		3.224				ND	
26 Carbon disulfide	76		3.388				ND	
27 Methyl acetate	43		3.443				ND	
30 Methylene Chloride	84		3.564				ND	
32 Methyl tert-butyl ether	73		3.717				ND	
34 trans-1,2-Dichloroethene	96		3.753				ND	
39 1,1-Dichloroethane	63		4.088				ND	
43 2-Butanone (MEK)	43		4.526				ND	
45 cis-1,2-Dichloroethene	96		4.538				ND	
50 Chloroform	83		4.781				ND	
51 1,1,1-Trichloroethane	97		4.927				ND	
52 Cyclohexane	56		4.951				ND	
55 Carbon tetrachloride	117		5.049				ND	
57 Benzene	78		5.231				ND	
58 1,2-Dichloroethane	62		5.268				ND	
1 1,4-Difluorobenzene	114		5.511				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/kg	Flags
62 Trichloroethene	95		5.748				ND	
64 Methylcyclohexane	83		5.888				ND	
65 1,2-Dichloropropane	63		5.974				ND	
68 Dichlorobromomethane	83		6.217				ND	
72 cis-1,3-Dichloropropene	75		6.594				ND	
73 4-Methyl-2-pentanone (MIBK	43		6.691				ND	
74 Toluene	92		6.886				ND	
77 trans-1,3-Dichloropropene	75		7.111				ND	
79 1,1,2-Trichloroethane	83		7.306				ND	
81 Tetrachloroethene	166		7.409				ND	
80 2-Hexanone	43		7.482				ND	
83 Chlorodibromomethane	129		7.713				ND	
84 Ethylene Dibromide	107		7.847				ND	
87 Chlorobenzene	112		8.297				ND	
88 Ethylbenzene	91		8.358				ND	
90 m-Xylene & p-Xylene	106		8.474				ND	
91 o-Xylene	106		8.906				ND	
92 Styrene	104		8.930				ND	
95 Bromoform	173		9.204				ND	
94 Isopropylbenzene	105		9.277				ND	
97 1,1,2,2-Tetrachloroethane	83		9.648				ND	
111 1,3-Dichlorobenzene	146		10.542				ND	
113 1,4-Dichlorobenzene	146		10.621				ND	
116 1,2-Dichlorobenzene	146		10.968				ND	
117 1,2-Dibromo-3-Chloropropan	75		11.643				ND	
119 1,2,4-Trichlorobenzene	180		12.282				ND	
S 124 Xylenes, Total	1		30.000				0	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

F 8260 SURR_00111	Amount Added:	1.00	Units: uL	Run Reagent
F 8260 IS_00280	Amount Added:	1.00	Units: uL	Run Reagent

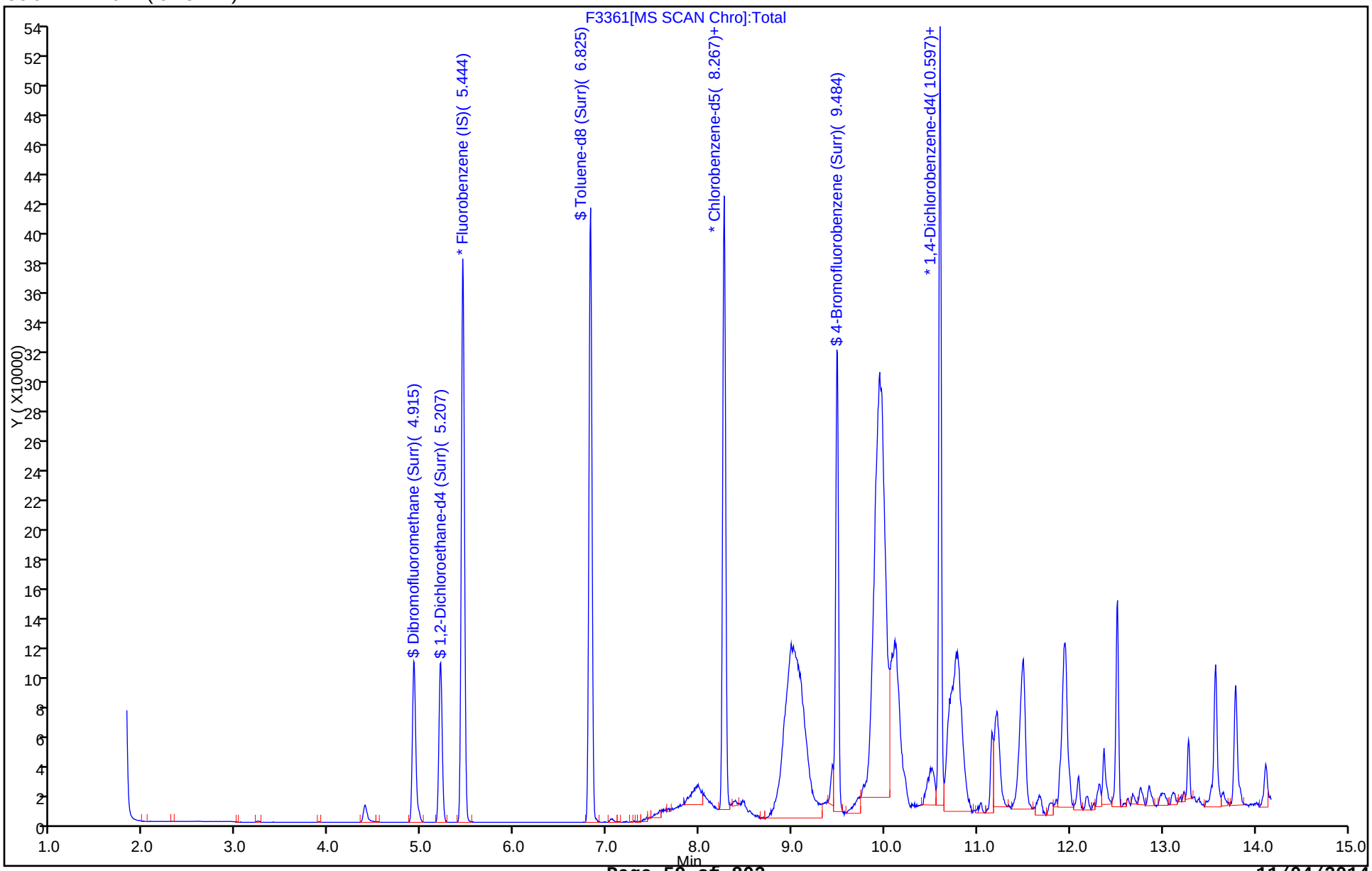
Report Date: 27-Oct-2014 14:25:35 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973F\20141027-36738.b\F3361.D

Injection Date:	27-Oct-2014 13:27:30	Instrument ID:	HP5973F	Operator ID:	NMD
Lims ID:	480-70101-C-1-A	Lab Sample ID:	480-70101-1	Worklist Smp#:	12
Client ID:	AS-CONC-PIERS				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-70101-1

SDG No.:

Client Sample ID: AS-CONC-OUTLET | Lab Sample ID: 480-70101-2

Matrix: Solid | Lab File ID: F3362.D

Analysis Method: 8260C | Date Collected: 10/23/2014 14:30

Sample wt/vol: 5.596(g) | Date Analyzed: 10/27/2014 13:53

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (60) ID: 0.25(mm)

% Moisture: 2.8 | Level: (low/med) Low

Analysis Batch No.: 210136 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		4.6	0.33
79-34-5	1,1,2,2-Tetrachloroethane	ND		4.6	0.75
79-00-5	1,1,2-Trichloroethane	ND		4.6	0.60
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.6	1.0
75-34-3	1,1-Dichloroethane	ND		4.6	0.56
75-35-4	1,1-Dichloroethene	ND		4.6	0.56
120-82-1	1,2,4-Trichlorobenzene	ND		4.6	0.28
96-12-8	1,2-Dibromo-3-Chloropropane	ND		4.6	2.3
106-93-4	1,2-Dibromoethane	ND		4.6	0.59
95-50-1	1,2-Dichlorobenzene	ND		4.6	0.36
107-06-2	1,2-Dichloroethane	ND		4.6	0.23
78-87-5	1,2-Dichloropropane	ND		4.6	2.3
541-73-1	1,3-Dichlorobenzene	ND		4.6	0.24
106-46-7	1,4-Dichlorobenzene	ND		4.6	0.64
591-78-6	2-Hexanone	ND		23	2.3
78-93-3	2-Butanone (MEK)	ND		23	1.7
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		23	1.5
67-64-1	Acetone	24		23	3.9
71-43-2	Benzene	ND		4.6	0.23
75-27-4	Bromodichloromethane	ND		4.6	0.62
75-25-2	Bromoform	ND		4.6	2.3
74-83-9	Bromomethane	ND		4.6	0.41
75-15-0	Carbon disulfide	ND		4.6	2.3
56-23-5	Carbon tetrachloride	ND		4.6	0.44
108-90-7	Chlorobenzene	ND		4.6	0.61
124-48-1	Dibromochloromethane	ND		4.6	0.59
75-00-3	Chloroethane	ND		4.6	1.0
67-66-3	Chloroform	ND		4.6	0.28
74-87-3	Chloromethane	ND		4.6	0.28
156-59-2	cis-1,2-Dichloroethene	ND		4.6	0.59
10061-01-5	cis-1,3-Dichloropropene	ND		4.6	0.66
110-82-7	Cyclohexane	ND		4.6	0.64
75-71-8	Dichlorodifluoromethane	ND		4.6	0.38
100-41-4	Ethylbenzene	ND		4.6	0.32
98-82-8	Isopropylbenzene	ND		4.6	0.69

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-70101-1

SDG No.:

Client Sample ID: AS-CONC-OUTLET | Lab Sample ID: 480-70101-2

Matrix: Solid | Lab File ID: F3362.D

Analysis Method: 8260C | Date Collected: 10/23/2014 14:30

Sample wt/vol: 5.596(g) | Date Analyzed: 10/27/2014 13:53

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (60) ID: 0.25(mm)

% Moisture: 2.8 | Level: (low/med) Low

Analysis Batch No.: 210136 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		4.6	2.8
1634-04-4	Methyl tert-butyl ether	ND		4.6	0.45
108-87-2	Methylcyclohexane	ND		4.6	0.70
75-09-2	Methylene Chloride	ND		4.6	2.1
100-42-5	Styrene	ND		4.6	0.23
127-18-4	Tetrachloroethene	ND		4.6	0.62
108-88-3	Toluene	ND		4.6	0.35
156-60-5	trans-1,2-Dichloroethene	ND		4.6	0.47
10061-02-6	trans-1,3-Dichloropropene	ND		4.6	2.0
79-01-6	Trichloroethene	ND		4.6	1.0
75-69-4	Trichlorofluoromethane	ND		4.6	0.43
75-01-4	Vinyl chloride	ND		4.6	0.56
1330-20-7	Xylenes, Total	ND		9.2	0.77

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		64-126
2037-26-5	Toluene-d8 (Surr)	104		71-125
460-00-4	4-Bromofluorobenzene (Surr)	105		72-126
1868-53-7	Dibromofluoromethane (Surr)	84		60-140

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973F\20141027-36738.b\F3362.D
Lims ID: 480-70101-C-2-A Lab Sample ID: 480-70101-2
Client ID: AS-CONC-OUTLET
Sample Type: Client
Inject. Date: 27-Oct-2014 13:53:30 ALS Bottle#: 14 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-70101-C-2-A
Misc. Info.: 480-0036738-013480-0036738-013
Operator ID: NMD Instrument ID: HP5973F

Method: \\Bufchrom\ChromData\HP5973F\20141027-36738.b\F-8260 SOIL.m
Limit Group: MV - 8260C ICAL
Last Update: 27-Oct-2014 14:25:34 Calib Date: 10-Oct-2014 16:15:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5973F\20141010-36203.b\F2890.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK025

First Level Reviewer: diasn Date: 27-Oct-2014 14:26:05

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/kg	Flags
* 153 Fluorobenzene (IS)	70	5.444	5.444	0.000	99	87393	50.0	
* 2 Chlorobenzene-d5	82	8.267	8.267	0.000	84	178093	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.597	10.597	0.000	93	178786	50.0	
$ 154 Dibromofluoromethane (Surr	113	4.915	4.915	0.000	94	69970	41.8	
$ 4 1,2-Dichloroethane-d4 (Sur	67	5.201	5.207	-0.006	0	53075	51.3	
$ 5 Toluene-d8 (Surr)	98	6.819	6.825	-0.006	92	381443	51.8	
$ 6 4-Bromofluorobenzene (Surr	174	9.484	9.490	-0.006	95	130521	52.3	
10 Dichlorodifluoromethane	85		1.928				ND	
12 Chloromethane	50		2.104				ND	
13 Vinyl chloride	62		2.208				ND	
14 Bromomethane	94		2.500				ND	
15 Chloroethane	64		2.579				ND	
17 Trichlorofluoromethane	101		2.749				ND	
21 1,1,2-Trichloro-1,2,2-trif	101		3.145				ND	
22 1,1-Dichloroethene	96		3.181				ND	
23 Acetone	43	3.230	3.224	0.006	99	17783	26.6	
26 Carbon disulfide	76		3.388				ND	
27 Methyl acetate	43		3.443				ND	
30 Methylene Chloride	84		3.564				ND	
32 Methyl tert-butyl ether	73		3.717				ND	
34 trans-1,2-Dichloroethene	96		3.753				ND	
39 1,1-Dichloroethane	63		4.088				ND	
43 2-Butanone (MEK)	43		4.526				ND	
45 cis-1,2-Dichloroethene	96		4.538				ND	
50 Chloroform	83		4.781				ND	
51 1,1,1-Trichloroethane	97		4.927				ND	
52 Cyclohexane	56		4.951				ND	
55 Carbon tetrachloride	117		5.049				ND	
57 Benzene	78		5.231				ND	
58 1,2-Dichloroethane	62		5.268				ND	
1 1,4-Difluorobenzene	114		5.511				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/kg	Flags
62 Trichloroethene	95		5.748				ND	
64 Methylcyclohexane	83		5.888				ND	
65 1,2-Dichloropropane	63		5.974				ND	
68 Dichlorobromomethane	83		6.217				ND	
72 cis-1,3-Dichloropropene	75		6.594				ND	
73 4-Methyl-2-pentanone (MIBK	43		6.691				ND	
74 Toluene	92		6.886				ND	
77 trans-1,3-Dichloropropene	75		7.111				ND	
79 1,1,2-Trichloroethane	83		7.306				ND	
81 Tetrachloroethene	166		7.409				ND	
80 2-Hexanone	43		7.482				ND	
83 Chlorodibromomethane	129		7.713				ND	
84 Ethylene Dibromide	107		7.847				ND	
87 Chlorobenzene	112		8.297				ND	
88 Ethylbenzene	91		8.358				ND	
90 m-Xylene & p-Xylene	106		8.474				ND	
91 o-Xylene	106		8.906				ND	
92 Styrene	104		8.930				ND	
95 Bromoform	173		9.204				ND	
94 Isopropylbenzene	105		9.277				ND	
97 1,1,2,2-Tetrachloroethane	83		9.648				ND	
111 1,3-Dichlorobenzene	146		10.542				ND	
113 1,4-Dichlorobenzene	146		10.621				ND	
116 1,2-Dichlorobenzene	146		10.968				ND	
117 1,2-Dibromo-3-Chloropropan	75		11.643				ND	
119 1,2,4-Trichlorobenzene	180		12.282				ND	
S 124 Xylenes, Total	1		30.000				0	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

F 8260 SURR_00111	Amount Added:	1.00	Units: uL	Run Reagent
F 8260 IS_00280	Amount Added:	1.00	Units: uL	Run Reagent

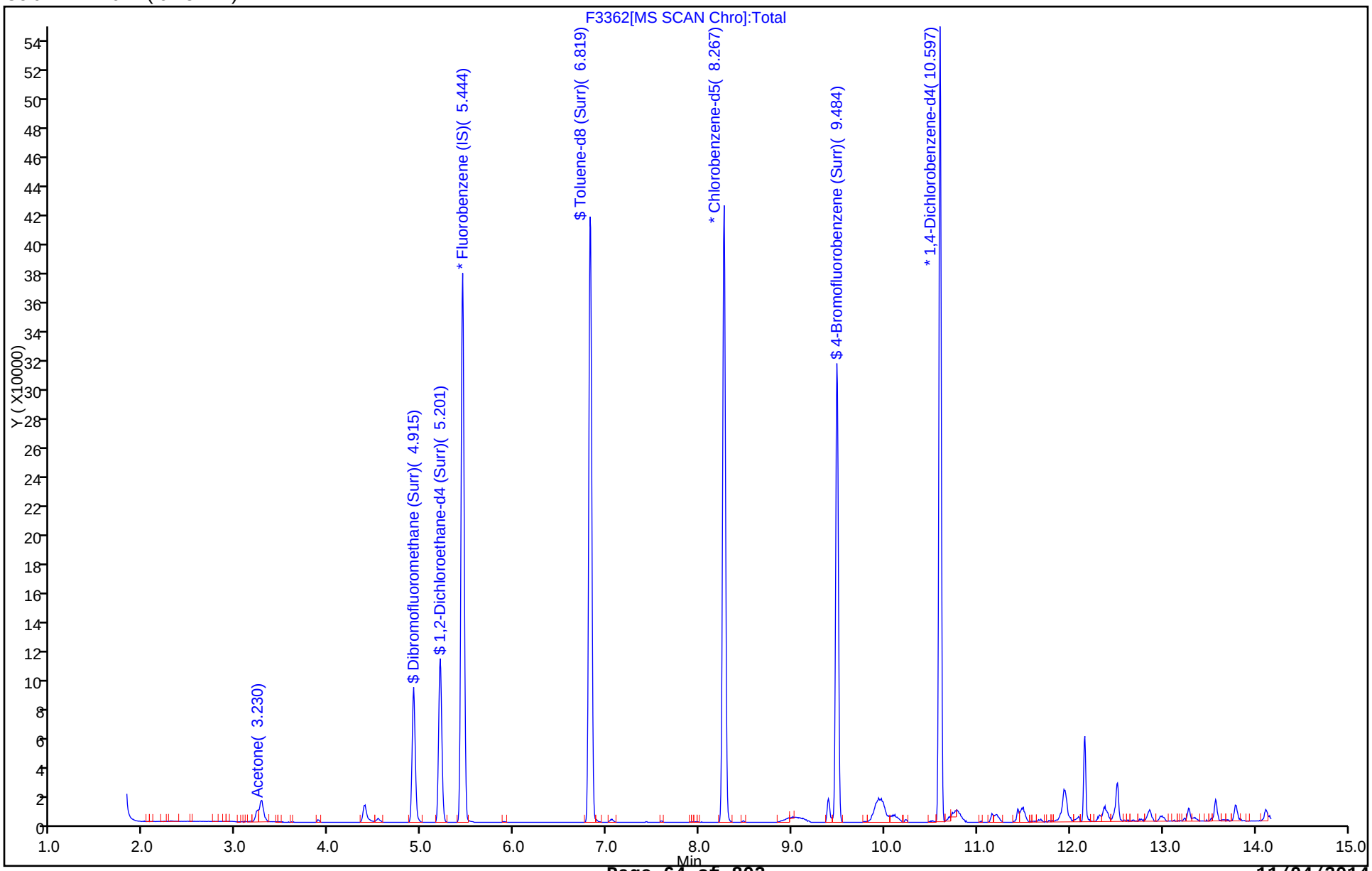
Report Date: 27-Oct-2014 14:26:06 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973F\20141027-36738.b\F3362.D

Injection Date:	27-Oct-2014 13:53:30	Instrument ID:	HP5973F	Operator ID:	NMD
Lims ID:	480-70101-C-2-A	Lab Sample ID:	480-70101-2	Worklist Smp#:	13
Client ID:	AS-CONC-OUTLET				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



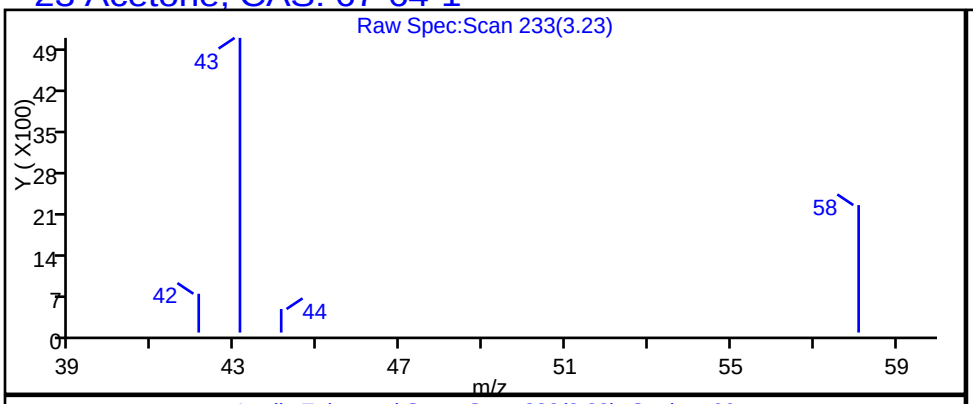
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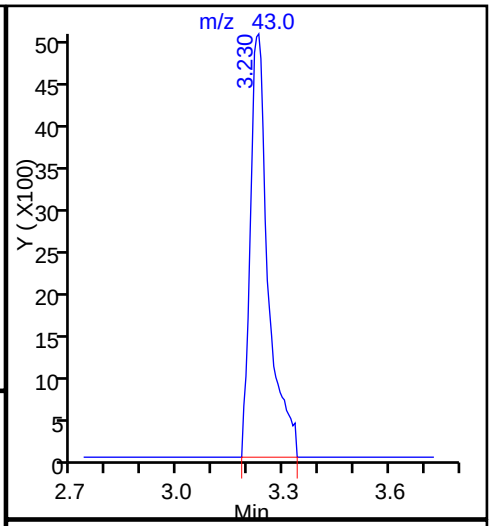
TestAmerica Buffalo

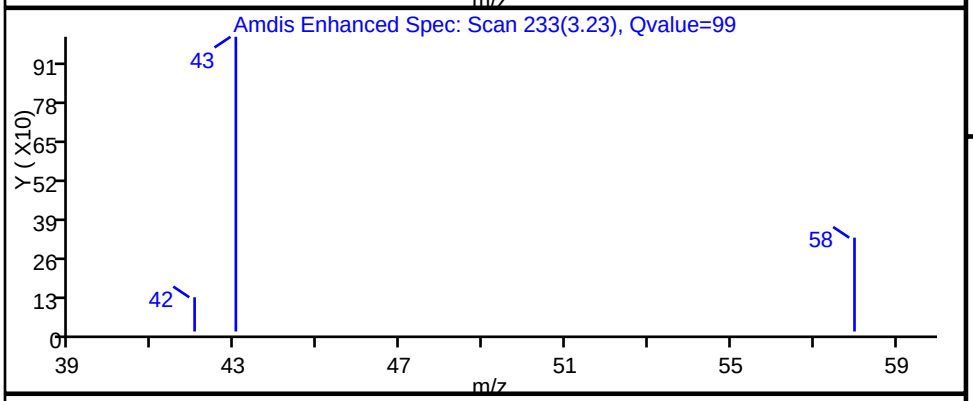
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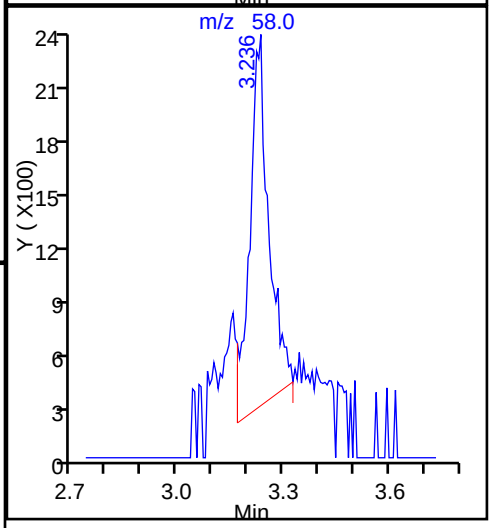
Injection Date:	27-Oct-2014 13:53:30	Instrument ID:	HP5973F
Lims ID:	480-70101-C-2-A	Lab Sample ID:	480-70101-2
Client ID:	AS-CONC-OUTLET		
Operator ID:	NMD	ALS Bottle#:	14 Worklist Smp#: 13
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN

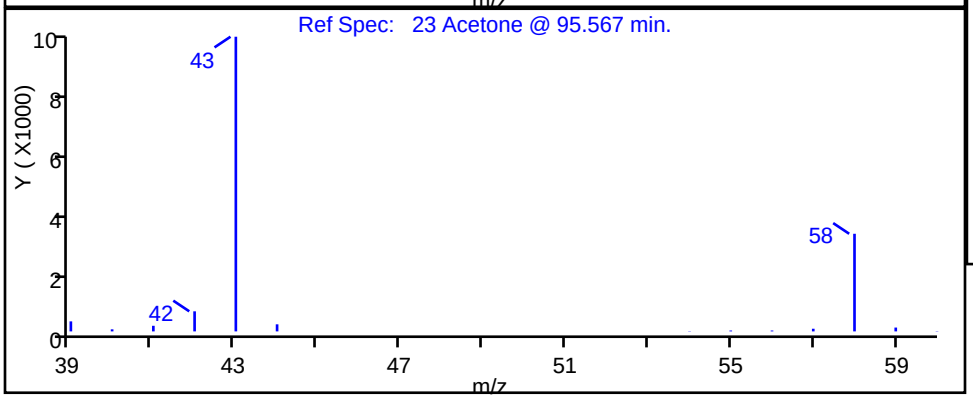
23 Acetone, CAS: 67-64-1











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

Lab Name: TestAmerica Buffalo Job No.: 480-70101-1 Analy Batch No.: 207100

SDG No.:

Instrument ID: HP5973F GC Column: ZB-624 (60) ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/10/2014 13:44 Calibration End Date: 10/10/2014 16:15 Calibration ID: 20641

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-207100/4	F2884.D
Level 2	IC 480-207100/5	F2885.D
Level 3	IC 480-207100/6	F2886.D
Level 4	IC 480-207100/7	F2887.D
Level 5	ICIS 480-207100/8	F2888.D
Level 6	IC 480-207100/9	F2889.D
Level 7	IC 480-207100/10	F2890.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								
Dichlorodifluoromethane	1.3048	1.4843 1.3059	1.3704	1.1527	1.4545	Ave		1.3454			0.1000	8.9		20.0			
Chloromethane	1.1138	1.2981 1.0584	1.2273	1.1070	1.2235	Ave		1.1714			0.1000	7.8		20.0			
Vinyl chloride	0.9568 1.0863	1.2090 1.0611	1.1279	1.0183	1.1829	Ave		1.0918			0.1000	8.2		20.0			
Butadiene	0.7243 0.8955	0.9837 0.9025	0.9370	0.7980	0.9984	Ave		0.8913				11.0		20.0			
Bromomethane	0.5489	0.6289 0.5295	0.6143	0.5973	0.6217	Ave		0.5901			0.1000	7.0		20.0			
Chloroethane	0.4652	0.4959 0.4428	0.4837	0.4647	0.5181	Ave		0.4784			0.1000	5.6		20.0			
Dichlorofluoromethane	1.2357 1.3678	1.4993 1.3134	1.4343	1.3508	1.4863	Ave		1.3839				6.9		20.0			
Trichlorofluoromethane	1.3169	1.3813 1.2614	1.2822	1.1359	1.4410	Ave		1.3031			0.1000	8.1		20.0			
Ethyl ether	0.9779 1.1046	1.1054 0.9997	1.1237	0.9785	1.1184	Ave		1.0583				6.5		20.0			
Acrolein	0.1387	0.1381 0.1373	0.1378	0.1238	0.1424	Ave		0.1363				4.7		20.0			
1,1,2-Trichloro-1,2,2-trifluoroethane	0.9357 1.1060	1.2135 1.1161	1.1058	0.8785	1.1543	Ave		1.0728			0.1000	11.0		20.0			
1,1-Dichloroethene	1.0431 1.2692	1.3163 1.2572	1.2446	0.9711	1.3428	Ave		1.2063			0.1000	12.0		20.0			
Acetone	0.3714	0.4039 0.3781	0.4093	0.3511	0.3852	Ave		0.3832			0.1000	5.6		20.0			
Iodomethane	2.1554	2.2774 2.1200	2.2159	1.8802	2.2649	Ave		2.1523				6.8		20.0			

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

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

Lab Name: TestAmerica Buffalo Job No.: 480-70101-1 Analy Batch No.: 207100

SDG No.:

Instrument ID: HP5973F GC Column: ZB-624 (60) ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/10/2014 13:44 Calibration End Date: 10/10/2014 16:15 Calibration ID: 20641

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								
Carbon disulfide	3.6682 5.0472	4.6193 5.0184	4.5756	3.7668	5.2632	Ave		4.5655			0.1000	14.0		20.0			
Methyl acetate	1.0649	1.1178 1.0400	1.1380	0.9944	1.1260	Ave		1.0802			0.1000	5.2		20.0			
Allyl chloride	1.9582	2.0127 1.8842	1.9503	1.6344	2.0609	Ave		1.9168				7.9		20.0			
Methylene Chloride	1.5455 1.4071	1.6283 1.3761	1.4937	1.2481	1.4511	Ave		1.4500			0.1000	8.5		20.0			
2-Methyl-2-propanol	0.1406	0.1380 0.1592	0.1419	0.1252	0.1368	Ave		0.1403				7.8		20.0			
Methyl tert-butyl ether	3.5033 3.9697	3.8546 3.8203	3.9540	3.4787	3.8933	Ave		3.7820			0.1000	5.4		20.0			
trans-1,2-Dichloroethene	1.1990 1.3899	1.4827 1.3833	1.4174	1.1662	1.4866	Ave		1.3607			0.1000	9.5		20.0			
Acrylonitrile	0.4563 0.4794	0.4926 0.4775	0.5061	0.4402	0.5010	Ave		0.4790				5.0		20.0			
Hexane	2.1464 2.0309	2.4318 2.0287	2.0788	1.4659	2.1220	Ave		2.0435				14.0		20.0			
Vinyl acetate	1.6924	1.5175 1.6628	1.6113	1.4387	1.6985	Ave		1.6035				6.5		20.0			
1,1-Dichloroethane	2.0644 2.2815	2.4343 2.2772	2.3529	1.9610	2.3951	Ave		2.2523			0.2000	7.8		20.0			
2-Butanone (MEK)	0.6149	0.5972 0.6298	0.6357	0.5460	0.6387	Ave		0.6104			0.1000	5.8		20.0			
2,2-Dichloropropane	1.2026 1.5176	1.4796 1.4922	1.4485	1.2014	1.6012	Ave		1.4205				11.0		20.0			
cis-1,2-Dichloroethene	1.3085 1.4898	1.5768 1.4848	1.5317	1.2960	1.5514	Ave		1.4627			0.1000	7.8		20.0			
Chlorobromomethane	0.6521 0.7156	0.7207 0.7198	0.7192	0.6152	0.7286	Ave		0.6959				6.3		20.0			
Tetrahydrofuran	0.4086	0.3868 0.4265	0.4128	0.3716	0.4252	Ave		0.4052				5.4		20.0			
Chloroform	2.1385 2.2676	2.4683 2.2545	2.3158	1.9841	2.3511	Ave		2.2543			0.2000	6.9		20.0			
1,1,1-Trichloroethane	1.3775 1.7611	1.7643 1.7621	1.6873	1.3605	1.8507	Ave		1.6519			0.1000	12.0		20.0			
Cyclohexane	1.9294	2.1811 1.9247	1.9533	1.4410	2.0786	Ave		1.9180			0.1000	13.0		20.0			
1,1-Dichloropropene	1.5031 1.7375	1.8326 1.7577	1.7321	1.3508	1.8330	Ave		1.6781				11.0		20.0			

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

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

Lab Name: TestAmerica Buffalo Job No.: 480-70101-1 Analy Batch No.: 207100

SDG No.:

Instrument ID: HP5973F GC Column: ZB-624 (60) ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/10/2014 13:44 Calibration End Date: 10/10/2014 16:15 Calibration ID: 20641

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								
Carbon tetrachloride	1.1070 1.5618	1.4352 1.6141	1.3887	1.1037	1.6109	Ave		1.4030			0.1000	16.0		20.0			
Isobutyl alcohol	0.0408 0.0671	0.0550 0.0739	0.0622	0.0556	0.0662	Ave		0.0601				18.0		20.0			
Benzene	5.4445 5.5451	6.0675 5.4916	5.7863	4.8033	5.8305	Ave		5.5670			0.5000	7.2		20.0			
1,2-Dichloroethane	1.6692 1.6450	1.8015 1.6409	1.7085	1.4785	1.6805	Ave		1.6606			0.1000	5.8		20.0			
n-Heptane	1.7772 2.0041	2.2470 2.0142	1.9488	1.4592	2.1036	Ave		1.9363				13.0		20.0			
Trichloroethene	1.2056 1.3697	1.4388 1.3989	1.3610	1.1363	1.4246	Ave		1.3335			0.2000	8.7		20.0			
Methylcyclohexane	1.9380 2.2177	2.4017 2.2913	2.1749	1.6358	2.3793	Ave		2.1484			0.1000	13.0		20.0			
1,2-Dichloropropane	1.1200 1.2938	1.3007 1.3130	1.2731	1.0916	1.3062	Ave		1.2426			0.1000	7.6		20.0			
1,4-Dioxane	 0.0077	0.0033 0.0085	0.0068	0.0068	0.0076	Lin1	-0.485	0.0083							0.9980		0.9900
Dibromomethane	0.6731 0.8001	0.7708 0.8089	0.7718	0.6828	0.7965	Ave		0.7577			0.1000	7.4		20.0			
Bromodichloromethane	1.1925 1.6949	1.4215 1.7529	1.4471	1.3031	1.6560	Ave		1.4954			0.2000	14.0		20.0			
2-Chloroethyl vinyl ether	 0.8510	0.6726 0.8978	0.7544	0.6811	0.8351	Ave		0.7820				12.0		20.0			
cis-1,3-Dichloropropene	1.4823 2.1324	1.8114 2.2026	1.8677	1.6855	2.1040	Ave		1.8980			0.2000	14.0		20.0			
4-Methyl-2-pentanone (MIBK)	 0.6318	0.6095 0.6268	0.6443	0.5744	0.6599	Ave		0.6244			0.1000	4.8		20.0			
Toluene	1.7962 1.7897	2.0043 1.7882	1.8822	1.5590	1.8832	Ave		1.8147			0.4000	7.5		20.0			
Ethyl methacrylate	 0.9561	0.7727 0.9856	0.8503	0.7663	0.9342	Ave		0.8775				11.0		20.0			
trans-1,3-Dichloropropene	0.6701 0.9399	0.7772 0.9613	0.8187	0.7505	0.9305	Ave		0.8355			0.1000	13.0		20.0			
1,1,2-Trichloroethane	0.4235 0.5059	0.5021 0.5128	0.5014	0.4442	0.5100	Ave		0.4857			0.1000	7.4		20.0			
Tetrachloroethene	0.7011 0.7698	0.8542 0.7733	0.7945	0.6312	0.8158	Ave		0.7628			0.2000	9.8		20.0			
1,3-Dichloropropane	0.9579 1.0501	1.0859 1.0406	1.0890	0.9366	1.0726	Ave		1.0332				6.0		20.0			

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

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

Lab Name: TestAmerica Buffalo Job No.: 480-70101-1 Analy Batch No.: 207100

SDG No.:

Instrument ID: HP5973F GC Column: ZB-624 (60) ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/10/2014 13:44 Calibration End Date: 10/10/2014 16:15 Calibration ID: 20641

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								
2-Hexanone	0.4596	0.4208 0.4599	0.4487	0.4066	0.4791	Ave		0.4458			0.1000	6.1		20.0			
Dibromochloromethane	0.3772 0.6502	0.4716 0.6830	0.5134	0.4710	0.6153	Lin1	-1.122	0.6661			0.1000				0.9960		0.9900
1,2-Dibromoethane	0.4907 0.6192	0.5849 0.6363	0.5911	0.5285	0.6185	Ave		0.5813				9.1		20.0			
Chlorobenzene	1.8336 1.9029	2.0833 1.8908	1.9991	1.6738	1.9720	Ave		1.9079			0.5000	6.9		20.0			
Ethylbenzene	3.0044 3.2446	3.4823 3.1771	3.4019	2.8157	3.4343	Ave		3.2229			0.1000	7.6		20.0			
1,1,1,2-Tetrachloroethane	0.4902 0.6425	0.5765 0.6494	0.5829	0.5112	0.6433	Ave		0.5852				11.0		20.0			
m,p-Xylene	1.2955	1.3306 1.2990	1.2949	1.0883	1.3462	Ave		1.2758			0.1000	7.4		20.0			
o-Xylene	1.0400 1.2373	1.2516 1.2270	1.2493	1.0539	1.2840	Ave		1.1919			0.3000	8.4		20.0			
Styrene	1.6391 2.1796	2.0222 2.1572	2.0611	1.8004	2.2187	Ave		2.0112			0.3000	11.0		20.0			
Bromoform	0.2215 0.4343	0.2744 0.4772	0.2934	0.2822	0.3958	Lin1	-1.028	0.4551			0.1000				0.9910		0.9900
Isopropylbenzene	2.7053 3.1791	3.2721 3.1964	3.2028	2.6697	3.3566	Ave		3.0832			0.1000	9.0		20.0			
1,1,2,2-Tetrachloroethane	0.6522 0.8115	0.7642 0.8314	0.7981	0.7046	0.8208	Ave		0.7690			0.3000	8.7		20.0			
Bromobenzene	0.7815 0.8537	0.9051 0.8712	0.8846	0.7617	0.8788	Ave		0.8481				6.5		20.0			
trans-1,4-Dichloro-2-butene	0.2290	0.1877 0.2379	0.2025	0.1860	0.2304	Ave		0.2123				11.0		20.0			
N-Propylbenzene	3.3698 3.7974	4.0873 3.7041	3.9228	3.2362	4.0547	Ave		3.7389				8.8		20.0			
1,2,3-Trichloropropane	0.2234 0.2473	0.2580 0.2477	0.2569	0.2184	0.2513	Ave		0.2433				6.5		20.0			
2-Chlorotoluene	0.7035 0.7689	0.7973 0.7842	0.7885	0.6522	0.8070	Ave		0.7574				7.6		20.0			
1,3,5-Trimethylbenzene	2.3100 2.6853	2.7878 2.6825	2.7057	2.2884	2.8261	Ave		2.6123				8.4		20.0			
4-Chlorotoluene	0.7242 0.8018	0.8483 0.8238	0.8225	0.6951	0.8311	Ave		0.7924				7.4		20.0			
tert-Butylbenzene	0.4985 0.6187	0.6233 0.6320	0.6042	0.5015	0.6412	Ave		0.5885				10.0		20.0			

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

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

Lab Name: TestAmerica Buffalo Job No.: 480-70101-1 Analy Batch No.: 207100

SDG No.:

Instrument ID: HP5973F GC Column: ZB-624 (60) ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/10/2014 13:44 Calibration End Date: 10/10/2014 16:15 Calibration ID: 20641

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								
1,2,4-Trimethylbenzene	2.3754 2.7685	2.8369 2.7524	2.8052	2.3805	2.8983	Ave		2.6882				8.1		20.0			
sec-Butylbenzene	2.8968 3.4270	3.5847 3.4011	3.4297	2.8049	3.6326	Ave		3.3110				9.9		20.0			
4-Isopropyltoluene	2.4644 3.0147	3.0882 2.9795	3.0057	2.4848	3.1959	Ave		2.8904				10.0		20.0			
1,3-Dichlorobenzene	1.5264 1.6061	1.7636 1.6114	1.6811	1.4195	1.6729	Ave		1.6116			0.6000	7.0		20.0			
1,4-Dichlorobenzene	1.5985 1.6168	1.7866 1.6264	1.7111	1.4512	1.6923	Ave		1.6404			0.5000	6.5		20.0			
n-Butylbenzene	2.1486 2.7161	2.7385 2.7197	2.6238	2.1954	2.8515	Ave		2.5705				11.0		20.0			
1,2-Dichlorobenzene	1.4521 1.5419	1.6348 1.5416	1.5888	1.3794	1.5732	Ave		1.5302			0.4000	5.7		20.0			
1,2-Dibromo-3-Chloropropane	0.0858 0.1486	0.0981 0.1620	0.1091	0.1052	0.1400	Lin1	-0.306	0.1556			0.0500				0.9930		0.9900
1,2,4-Trichlorobenzene	0.9283 1.1053	1.0797 1.0964	1.0568	0.9481	1.1046	Ave		1.0456			0.2000	7.2		20.0			
Hexachlorobutadiene	0.6046 0.6507	0.7238 0.6551	0.6518	0.5129	0.6882	Ave		0.6410				11.0		20.0			
Naphthalene	 2.6661	2.2321 2.6723	2.3419	2.1665	2.6300	Ave		2.4515				9.4		20.0			
1,2,3-Trichlorobenzene	0.8892 1.0412	1.0135 1.0116	1.0047	0.8930	1.0311	Ave		0.9835				6.5		20.0			
Dibromofluoromethane (Surr)	0.9438 0.9639	0.9506 0.9662	0.9585	0.9590	0.9611	Ave		0.9576				0.8		20.0			
1,2-Dichloroethane-d4 (Surr)	0.5960 0.5928	0.5910 0.5961	0.6008	0.5898	0.5795	Ave		0.5923				1.1		20.0			
Toluene-d8 (Surr)	2.0904 2.0478	2.0636 2.0566	2.0767	2.0820	2.0578	Ave		2.0678				0.8		20.0			
4-Bromofluorobenzene (Surr)	0.6962 0.7008	0.6977 0.7004	0.7003	0.7059	0.6990	Ave		0.7000				0.4		20.0			

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

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

Lab Name: TestAmerica Buffalo Job No.: 480-70101-1 Analy Batch No.: 207100

SDG No.:

Instrument ID: HP5973F GC Column: ZB-624 (60) ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/10/2014 13:44 Calibration End Date: 10/10/2014 16:15 Calibration ID: 20641

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-207100/4	F2884.D
Level 2	IC 480-207100/5	F2885.D
Level 3	IC 480-207100/6	F2886.D
Level 4	IC 480-207100/7	F2887.D
Level 5	ICIS 480-207100/8	F2888.D
Level 6	IC 480-207100/9	F2889.D
Level 7	IC 480-207100/10	F2890.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/KG)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Dichlorodifluoromethane	FB	Ave	354368	19165 733791	35548	59573	190358	100	5.00 200	10.0	20.0	50.0
Chloromethane	FB	Ave	302490	16761 594738	31837	57212	160117	100	5.00 200	10.0	20.0	50.0
Vinyl chloride	FB	Ave	6111 295021	15611 596230	29258	52626	154810	2.50 100	5.00 200	10.0	20.0	50.0
Butadiene	FB	Ave	4626 243220	12701 507126	24306	41240	130666	2.50 100	5.00 200	10.0	20.0	50.0
Bromomethane	FB	Ave	149078	8120 297503	15936	30870	81359	100	5.00 200	10.0	20.0	50.0
Chloroethane	FB	Ave	126356	6403 248825	12547	24018	67811	100	5.00 200	10.0	20.0	50.0
Dichlorofluoromethane	FB	Ave	7892 371481	19359 737989	37206	69812	194515	2.50 100	5.00 200	10.0	20.0	50.0
Trichlorofluoromethane	FB	Ave	357663	17835 708750	33262	58704	188586	100	5.00 200	10.0	20.0	50.0
Ethyl ether	FB	Ave	6246 300010	14273 561739	29148	50570	146370	2.50 100	5.00 200	10.0	20.0	50.0
Acrolein	FB	Ave	188344	8913 385766	17869	31978	93186	500	25.0 1000	50.0	100	250
1,1,2-Trichloro-1,2,2-trifluoroetha ne	FB	Ave	5976 300385	15669 627159	28684	45399	151073	2.50 100	5.00 200	10.0	20.0	50.0
1,1-Dichloroethene	FB	Ave	6662 344699	16996 706406	32286	50185	175735	2.50 100	5.00 200	10.0	20.0	50.0
Acetone	FB	Ave	504364	26075 1062302	53089	90723	252060	500	25.0 1000	50.0	100	250
Iodomethane	FB	Ave	585392	29406 1191218	57482	97172	296419	100	5.00 200	10.0	20.0	50.0
Carbon disulfide	FB	Ave	23428 1370769	59645 2819818	118694	194671	688808	2.50 100	5.00 200	10.0	20.0	50.0

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

Lab Name: TestAmerica Buffalo Job No.: 480-70101-1 Analy Batch No.: 207100

SDG No.:

Instrument ID: HP5973F GC Column: ZB-624 (60) ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/10/2014 13:44 Calibration End Date: 10/10/2014 16:15 Calibration ID: 20641

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/KG)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Methyl acetate	FB	Ave	1446019	72163 2921966	147595	256964	736803	500	25.0 1000	50.0	100	250
Allyl chloride	FB	Ave	531831	25988 1058746	50592	84464	269715	100	5.00 200	10.0	20.0	50.0
Methylene Chloride	FB	Ave	9871 382143	21024 773243	38747	64504	189912	2.50 100	5.00 200	10.0	20.0	50.0
2-Methyl-2-propanol	FB	Ave	381914	17819 894406	36806	64701	179071	1000	50.0 2000	100	200	500
Methyl tert-butyl ether	FB	Ave	22375 1078121	49771 2146602	102568	179779	509532	2.50 100	5.00 200	10.0	20.0	50.0
trans-1,2-Dichloroethene	FB	Ave	7658 377477	19144 777296	36768	60272	194560	2.50 100	5.00 200	10.0	20.0	50.0
Acrylonitrile	FB	Ave	29142 1301910	63603 2682930	131285	227493	655636	25.0 1000	50.0 2000	100	200	500
Hexane	FB	Ave	13709 551568	31399 1139931	53924	75760	277716	2.50 100	5.00 200	10.0	20.0	50.0
Vinyl acetate	FB	Ave	919267	39188 1868690	83595	148705	444571	200	10.0 400	20.0	40.0	100
1,1-Dichloroethane	FB	Ave	13185 619642	31432 1279529	61035	101343	313460	2.50 100	5.00 200	10.0	20.0	50.0
2-Butanone (MEK)	FB	Ave	835065	38558 1769516	82448	141076	417939	500	25.0 1000	50.0	100	250
2,2-Dichloropropane	FB	Ave	7681 412177	19104 838459	37574	62091	209560	2.50 100	5.00 200	10.0	20.0	50.0
cis-1,2-Dichloroethene	FB	Ave	8357 404609	20359 834279	39733	66976	203037	2.50 100	5.00 200	10.0	20.0	50.0
Chlorobromomethane	FB	Ave	4165 194356	9306 404446	18656	31796	95360	2.50 100	5.00 200	10.0	20.0	50.0
Tetrahydrofuran	FB	Ave	221948	9989 479352	21414	38407	111293	200	10.0 400	20.0	40.0	100
Chloroform	FB	Ave	13658 615863	31871 1266822	60074	102539	307699	2.50 100	5.00 200	10.0	20.0	50.0
1,1,1-Trichloroethane	FB	Ave	8798 478301	22780 990097	43768	70309	242210	2.50 100	5.00 200	10.0	20.0	50.0
Cyclohexane	FB	Ave	524007	28163 1081472	50670	74472	272036	100	5.00 200	10.0	20.0	50.0
1,1-Dichloropropene	FB	Ave	9600 471899	23662 987631	44932	69810	239888	2.50 100	5.00 200	10.0	20.0	50.0
Carbon tetrachloride	FB	Ave	7070 424181	18531 906930	36024	57039	210818	2.50 100	5.00 200	10.0	20.0	50.0
Isobutyl alcohol	FB	Ave	6520 455824	17743 1038115	40312	71787	216458	62.5 2500	125 5000	250	500	1250

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

Lab Name: TestAmerica Buffalo Job No.: 480-70101-1 Analy Batch No.: 207100

SDG No.:

Instrument ID: HP5973F GC Column: ZB-624 (60) ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/10/2014 13:44 Calibration End Date: 10/10/2014 16:15 Calibration ID: 20641

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/KG)				
			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
Benzene	FB	Ave	34773 1505985	78343 3085685	150100	248237	763052	2.50 100	5.00 200	10.0	20.0	50.0
1,2-Dichloroethane	FB	Ave	10661 446759	23261 922020	44319	76409	219929	2.50 100	5.00 200	10.0	20.0	50.0
n-Heptane	FB	Ave	11351 544290	29013 1131774	50552	75411	275309	2.50 100	5.00 200	10.0	20.0	50.0
Trichloroethene	FB	Ave	7700 371994	18578 786029	35304	58724	186437	2.50 100	5.00 200	10.0	20.0	50.0
Methylcyclohexane	FB	Ave	12378 602296	31011 1287494	56417	84537	311387	2.50 100	5.00 200	10.0	20.0	50.0
1,2-Dichloropropane	FB	Ave	7153 351378	16794 737770	33024	56415	170945	2.50 100	5.00 200	10.0	20.0	50.0
1,4-Dioxane	CBZ	Lin1	 80585	1642 184840	6744	13371	38337	 2000	100 4000	200	400	1000
Dibromomethane	FB	Ave	4299 217312	9953 454494	20020	35286	104246	2.50 100	5.00 200	10.0	20.0	50.0
Bromodichloromethane	FB	Ave	7616 460326	18354 984944	37538	67345	216732	2.50 100	5.00 200	10.0	20.0	50.0
2-Chloroethyl vinyl ether	FB	Ave	 231135	8685 504480	19569	35198	109298	 100	5.00 200	10.0	20.0	50.0
cis-1,3-Dichloropropene	FB	Ave	9467 579145	23389 1237656	48449	87109	275352	2.50 100	5.00 200	10.0	20.0	50.0
4-Methyl-2-pentanone (MIBK)	CBZ	Ave	 1659489	74967 3415364	159276	284279	829535	 500	25.0 1000	50.0	100	250
Toluene	CBZ	Ave	21666 940142	49305 1948852	93064	154310	473457	2.50 100	5.00 200	10.0	20.0	50.0
Ethyl methacrylate	CBZ	Ave	 502225	19009 1074151	42043	75850	234874	 100	5.00 200	10.0	20.0	50.0
trans-1,3-Dichloropropene	CBZ	Ave	8083 493717	19119 1047707	40481	74285	233925	2.50 100	5.00 200	10.0	20.0	50.0
1,1,2-Trichloroethane	CBZ	Ave	5108 265744	12351 558883	24790	43966	128219	2.50 100	5.00 200	10.0	20.0	50.0
Tetrachloroethene	CBZ	Ave	8457 404373	21013 842799	39282	62474	205099	2.50 100	5.00 200	10.0	20.0	50.0
1,3-Dichloropropane	CBZ	Ave	11554 551634	26712 1134052	53846	92709	269654	2.50 100	5.00 200	10.0	20.0	50.0
2-Hexanone	CBZ	Ave	 1207064	51764 2506017	110938	201207	602244	 500	25.0 1000	50.0	100	250
Dibromochloromethane	CBZ	Lin1	4550 341558	11602 744401	25383	46620	154695	2.50 100	5.00 200	10.0	20.0	50.0
1,2-Dibromoethane	CBZ	Ave	5919 325254	14389 693450	29225	52316	155492	2.50 100	5.00 200	10.0	20.0	50.0

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

Lab Name: TestAmerica Buffalo Job No.: 480-70101-1 Analy Batch No.: 207100

SDG No.:

Instrument ID: HP5973F GC Column: ZB-624 (60) ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/10/2014 13:44 Calibration End Date: 10/10/2014 16:15 Calibration ID: 20641

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/KG)				
			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
Chlorobenzene	CBZ	Ave	22117 999590	51249 2060709	98844	165671	495772	2.50 100	5.00 200	10.0	20.0	50.0
Ethylbenzene	CBZ	Ave	36239 1704358	85663 3462524	168203	278699	863414	2.50 100	5.00 200	10.0	20.0	50.0
1,1,1,2-Tetrachloroethane	CBZ	Ave	5913 337517	14182 707797	28823	50602	161730	2.50 100	5.00 200	10.0	20.0	50.0
m,p-Xylene	CBZ	Ave	 680522	32732 1415710	64028	107722	338439	 100	5.00 200	10.0	20.0	50.0
o-Xylene	CBZ	Ave	12545 649930	30790 1337198	61773	104314	322799	2.50 100	5.00 200	10.0	20.0	50.0
Styrene	CBZ	Ave	19771 1144930	49745 2351061	101911	178206	557791	2.50 100	5.00 200	10.0	20.0	50.0
Bromoform	CBZ	Lin1	2672 228147	6750 520033	14508	27937	99514	2.50 100	5.00 200	10.0	20.0	50.0
Isopropylbenzene	DCB	Ave	31734 1664764	78655 3399788	155802	260237	835386	2.50 100	5.00 200	10.0	20.0	50.0
1,1,2,2-Tetrachloroethane	DCB	Ave	7650 424953	18370 884262	38824	68685	204270	2.50 100	5.00 200	10.0	20.0	50.0
Bromobenzene	DCB	Ave	9167 447046	21758 926620	43030	74248	218699	2.50 100	5.00 200	10.0	20.0	50.0
trans-1,4-Dichloro-2-butene	DCB	Ave	 119936	4512 253018	9852	18131	57331	 100	5.00 200	10.0	20.0	50.0
N-Propylbenzene	DCB	Ave	39528 1988542	98252 3939734	190828	315451	1009102	2.50 100	5.00 200	10.0	20.0	50.0
1,2,3-Trichloropropane	DCB	Ave	2621 129487	6203 263446	12499	21292	62541	2.50 100	5.00 200	10.0	20.0	50.0
2-Chlorotoluene	DCB	Ave	8252 402621	19166 834091	38358	63575	200834	2.50 100	5.00 200	10.0	20.0	50.0
1,3,5-Trimethylbenzene	DCB	Ave	27097 1406207	67013 2853139	131623	223070	703350	2.50 100	5.00 200	10.0	20.0	50.0
4-Chlorotoluene	DCB	Ave	8495 419853	20391 876192	40010	67754	206850	2.50 100	5.00 200	10.0	20.0	50.0
tert-Butylbenzene	DCB	Ave	5847 323995	14984 672176	29390	48884	159588	2.50 100	5.00 200	10.0	20.0	50.0
1,2,4-Trimethylbenzene	DCB	Ave	27864 1449766	68194 2927554	136463	232039	721313	2.50 100	5.00 200	10.0	20.0	50.0
sec-Butylbenzene	DCB	Ave	33980 1794590	86171 3617519	166843	273412	904056	2.50 100	5.00 200	10.0	20.0	50.0
4-Isopropyltoluene	DCB	Ave	28908 1578685	74234 3169027	146214	242213	795368	2.50 100	5.00 200	10.0	20.0	50.0
1,3-Dichlorobenzene	DCB	Ave	17905 841035	42394 1713953	81779	138364	416344	2.50 100	5.00 200	10.0	20.0	50.0

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

Lab Name: TestAmerica Buffalo Job No.: 480-70101-1 Analy Batch No.: 207100

SDG No.:

Instrument ID: HP5973F GC Column: ZB-624 (60) ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/10/2014 13:44 Calibration End Date: 10/10/2014 16:15 Calibration ID: 20641

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/KG)				
			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
1,4-Dichlorobenzene	DCB	Ave	18751 846648	42946 1729895	83238	141463	421181	2.50 100	5.00 200	10.0	20.0	50.0
n-Butylbenzene	DCB	Ave	25203 1422306	65830 2892714	127639	214002	709657	2.50 100	5.00 200	10.0	20.0	50.0
1,2-Dichlorobenzene	DCB	Ave	17033 807454	39298 1639628	77291	134455	391520	2.50 100	5.00 200	10.0	20.0	50.0
1,2-Dibromo-3-Chloropropane	DCB	Lin1	1006 77801	2358 172264	5307	10250	34835	2.50 100	5.00 200	10.0	20.0	50.0
1,2,4-Trichlorobenzene	DCB	Ave	10889 578812	25953 1166196	51408	92415	274907	2.50 100	5.00 200	10.0	20.0	50.0
Hexachlorobutadiene	DCB	Ave	7092 340757	17398 696812	31707	49997	171264	2.50 100	5.00 200	10.0	20.0	50.0
Naphthalene	DCB	Ave	 1396106	53657 2842262	113922	211181	654532	 100	5.00 200	10.0	20.0	50.0
1,2,3-Trichlorobenzene	DCB	Ave	10431 545251	24362 1076004	48876	87042	256622	2.50 100	5.00 200	10.0	20.0	50.0
Dibromofluoromethane (Surr)	FB	Ave	120558 130892	122739 135719	124321	123909	125778	50.0 50.0	50.0 50.0	50.0	50.0	50.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	76134 80497	76305 83734	77929	76208	75844	50.0 50.0	50.0 50.0	50.0	50.0	50.0
Toluene-d8 (Surr)	CBZ	Ave	504294 537842	507640 560338	513404	515199	517340	50.0 50.0	50.0 50.0	50.0	50.0	50.0
4-Bromofluorobenzene (Surr)	CBZ	Ave	167946 184053	171624 190831	173120	174677	175739	50.0 50.0	50.0 50.0	50.0	50.0	50.0

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973F\20141010-36203.b\F2884.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 10-Oct-2014 13:44:30 ALS Bottle#: 13 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC
Misc. Info.: 480-0036203-004480-0036203-004
Operator ID: NMD Instrument ID: HP5973F
Sublist: chrom-F-8260 SOIL*sub27

Method: \\Bufchrom\ChromData\HP5973F\20141010-36203.b\F-8260 SOIL.m
Limit Group: MV - 8260C ICAL
Last Update: 11-Oct-2014 10:23:25 Calib Date: 10-Oct-2014 16:15:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5973F\20141010-36203.b\F2890.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK007

First Level Reviewer: diasn Date: 11-Oct-2014 10:23:25

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
* 153 Fluorobenzene (IS)	70	5.444	5.444	0.000	99	127737	50.0	50.0	
* 2 Chlorobenzene-d5	82	8.267	8.267	0.000	85	241243	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.597	10.597	0.000	94	234604	50.0	50.0	
$ 154 Dibromofluoromethane (Surr	113	4.915	4.915	0.000	94	120558	50.0	49.3	
$ 4 1,2-Dichloroethane-d4 (Sur	67	5.207	5.201	0.006	0	76134	50.0	50.3	
$ 5 Toluene-d8 (Surr)	98	6.825	6.825	0.000	92	504294	50.0	50.5	
$ 6 4-Bromofluorobenzene (Surr	174	9.490	9.490	0.000	93	167946	50.0	49.7	
10 Dichlorodifluoromethane	85		1.922					ND	
12 Chloromethane	50		2.098					ND	
13 Vinyl chloride	62	2.196	2.202	-0.006	95	6111	2.50	2.19	
151 Butadiene	54	2.208	2.220	-0.012	93	4626	2.50	2.15	
14 Bromomethane	94		2.500					ND	
15 Chloroethane	64		2.567					ND	
16 Dichlorofluoromethane	67	2.737	2.737	0.000	93	7892	2.50	2.23	
17 Trichlorofluoromethane	101		2.774					ND	
18 Ethyl ether	59	2.956	2.956	0.000	88	6246	2.50	2.31	
20 Acrolein	56		3.114					ND	
21 1,1,2-Trichloro-1,2,2-trif	101	3.157	3.163	-0.006	1	5976	2.50	2.18	
22 1,1-Dichloroethene	96	3.169	3.175	-0.006	95	6662	2.50	2.16	
23 Acetone	43		3.224					ND	
25 Iodomethane	142		3.339					ND	
26 Carbon disulfide	76	3.388	3.394	-0.006	97	23428	2.50	3.10	
28 3-Chloro-1-propene	41		3.449					ND	
27 Methyl acetate	43		3.449					ND	
30 Methylene Chloride	84	3.558	3.564	-0.006	86	9871	2.50	2.66	
31 2-Methyl-2-propanol	59		3.613					ND	
32 Methyl tert-butyl ether	73	3.717	3.717	0.000	93	22375	2.50	2.32	
34 trans-1,2-Dichloroethene	96	3.753	3.753	0.000	97	7658	2.50	2.20	
33 Acrylonitrile	53	3.765	3.765	0.000	100	29142	25.0	23.8	
35 Hexane	57	3.887	3.887	0.000	91	13709	2.50	2.63	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
37 Vinyl acetate	43		4.069					ND	
39 1,1-Dichloroethane	63	4.088	4.088	0.000	94	13185	2.50	2.29	
43 2-Butanone (MEK)	43		4.526					ND	
44 2,2-Dichloropropane	77	4.526	4.532	-0.006	51	7681	2.50	2.12	
45 cis-1,2-Dichloroethene	96	4.538	4.538	0.000	78	8357	2.50	2.24	
48 Chlorobromomethane	128	4.751	4.745	0.006	86	4165	2.50	2.34	
49 Tetrahydrofuran	42		4.763					ND	
50 Chloroform	83	4.775	4.781	-0.006	92	13658	2.50	2.37	
51 1,1,1-Trichloroethane	97	4.921	4.921	0.000	49	8798	2.50	2.08	
52 Cyclohexane	56		4.952					ND	
54 1,1-Dichloropropene	75	5.043	5.043	0.000	94	9600	2.50	2.24	
55 Carbon tetrachloride	117	5.055	5.049	0.006	67	7070	2.50	1.97	
53 Isobutyl alcohol	43	5.110	5.104	0.006	92	6520	62.5	42.5	
57 Benzene	78	5.231	5.231	0.000	91	34773	2.50	2.44	
58 1,2-Dichloroethane	62	5.268	5.268	0.000	95	10661	2.50	2.51	
59 n-Heptane	43	5.323	5.323	0.000	84	11351	2.50	2.29	
62 Trichloroethene	95	5.749	5.755	-0.007	94	7700	2.50	2.26	
64 Methylcyclohexane	83	5.882	5.888	-0.006	88	12378	2.50	2.26	
65 1,2-Dichloropropane	63	5.974	5.974	0.000	90	7153	2.50	2.25	
66 1,4-Dioxane	88		6.077					ND	
67 Dibromomethane	93	6.107	6.107	0.000	95	4299	2.50	2.22	
68 Dichlorobromomethane	83	6.211	6.217	-0.006	94	7616	2.50	1.99	
69 2-Chloroethyl vinyl ether	63		6.424					ND	
72 cis-1,3-Dichloropropene	75	6.594	6.594	0.000	96	9467	2.50	1.95	
73 4-Methyl-2-pentanone (MIBK	43		6.691					ND	
74 Toluene	92	6.886	6.886	0.000	99	21666	2.50	2.47	
75 Ethyl methacrylate	69		7.105					ND	
77 trans-1,3-Dichloropropene	75	7.111	7.111	0.000	93	8083	2.50	2.01	
79 1,1,2-Trichloroethane	83	7.306	7.306	0.000	87	5108	2.50	2.18	
81 Tetrachloroethene	166	7.409	7.409	0.000	96	8457	2.50	2.30	
82 1,3-Dichloropropane	76	7.476	7.476	0.000	63	11554	2.50	2.32	
80 2-Hexanone	43		7.482					ND	
83 Chlorodibromomethane	129	7.714	7.713	0.001	84	4550	2.50	3.10	
84 Ethylene Dibromide	107	7.847	7.847	0.000	98	5919	2.50	2.11	
87 Chlorobenzene	112	8.298	8.297	0.001	95	22117	2.50	2.40	
88 Ethylbenzene	91	8.358	8.358	0.000	98	36239	2.50	2.33	
89 1,1,1,2-Tetrachloroethane	131	8.371	8.377	-0.006	90	5913	2.50	2.09	
90 m-Xylene & p-Xylene	106		8.474					ND	
91 o-Xylene	106	8.906	8.906	0.000	96	12545	2.50	2.18	
92 Styrene	104	8.930	8.930	0.000	93	19771	2.50	2.04	
95 Bromoform	173	9.204	9.204	0.000	89	2672	2.50	3.48	
94 Isopropylbenzene	105	9.277	9.277	0.000	96	31734	2.50	2.19	
97 1,1,2,2-Tetrachloroethane	83	9.648	9.648	0.000	73	7650	2.50	2.12	
101 Bromobenzene	156	9.654	9.654	0.000	87	9167	2.50	2.30	
98 trans-1,4-Dichloro-2-buten	53		9.691					ND	
99 N-Propylbenzene	91	9.691	9.691	0.000	98	39528	2.50	2.25	
100 1,2,3-Trichloropropane	110	9.703	9.703	0.000	52	2621	2.50	2.30	
103 2-Chlorotoluene	126	9.825	9.824	0.000	69	8252	2.50	2.32	
102 1,3,5-Trimethylbenzene	105	9.855	9.855	0.000	94	27097	2.50	2.21	
105 4-Chlorotoluene	126	9.922	9.928	-0.006	97	8495	2.50	2.28	
106 tert-Butylbenzene	134	10.177	10.177	0.000	91	5847	2.50	2.12	
107 1,2,4-Trimethylbenzene	105	10.226	10.226	0.000	95	27864	2.50	2.21	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
109 sec-Butylbenzene	105	10.378	10.378	0.000	94	33980	2.50	2.19	
110 4-Isopropyltoluene	119	10.506	10.506	0.000	96	28908	2.50	2.13	
111 1,3-Dichlorobenzene	146	10.542	10.542	0.000	95	17905	2.50	2.37	
113 1,4-Dichlorobenzene	146	10.621	10.621	0.000	95	18751	2.50	2.44	
115 n-Butylbenzene	91	10.877	10.877	0.000	97	25203	2.50	2.09	
116 1,2-Dichlorobenzene	146	10.968	10.968	0.000	97	17033	2.50	2.37	
117 1,2-Dibromo-3-Chloropropan	75	11.644	11.643	0.001	75	1006	2.50	3.35	
119 1,2,4-Trichlorobenzene	180	12.282	12.282	0.000	93	10889	2.50	2.22	
120 Hexachlorobutadiene	225	12.374	12.380	-0.006	92	7092	2.50	2.36	
121 Naphthalene	128		12.513					ND	
122 1,2,3-Trichlorobenzene	180	12.726	12.726	0.000	94	10431	2.50	2.26	
S 125 1,2-Dichloroethene, Total	1				0			4.44	
S 126 1,3-Dichloropropene, Total	1				0			3.96	
S 123 Total BTEX	1				0			9.43	
S 124 Xylenes, Total	1				0			2.18	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

8260 CORP mix_00024	Amount Added:	2.50	Units: uL	
GAS CORP mix_00050	Amount Added:	2.50	Units: uL	
F 8260 SURR_00110	Amount Added:	1.00	Units: uL	Run Reagent
F 8260 IS_00276	Amount Added:	1.00	Units: uL	Run Reagent

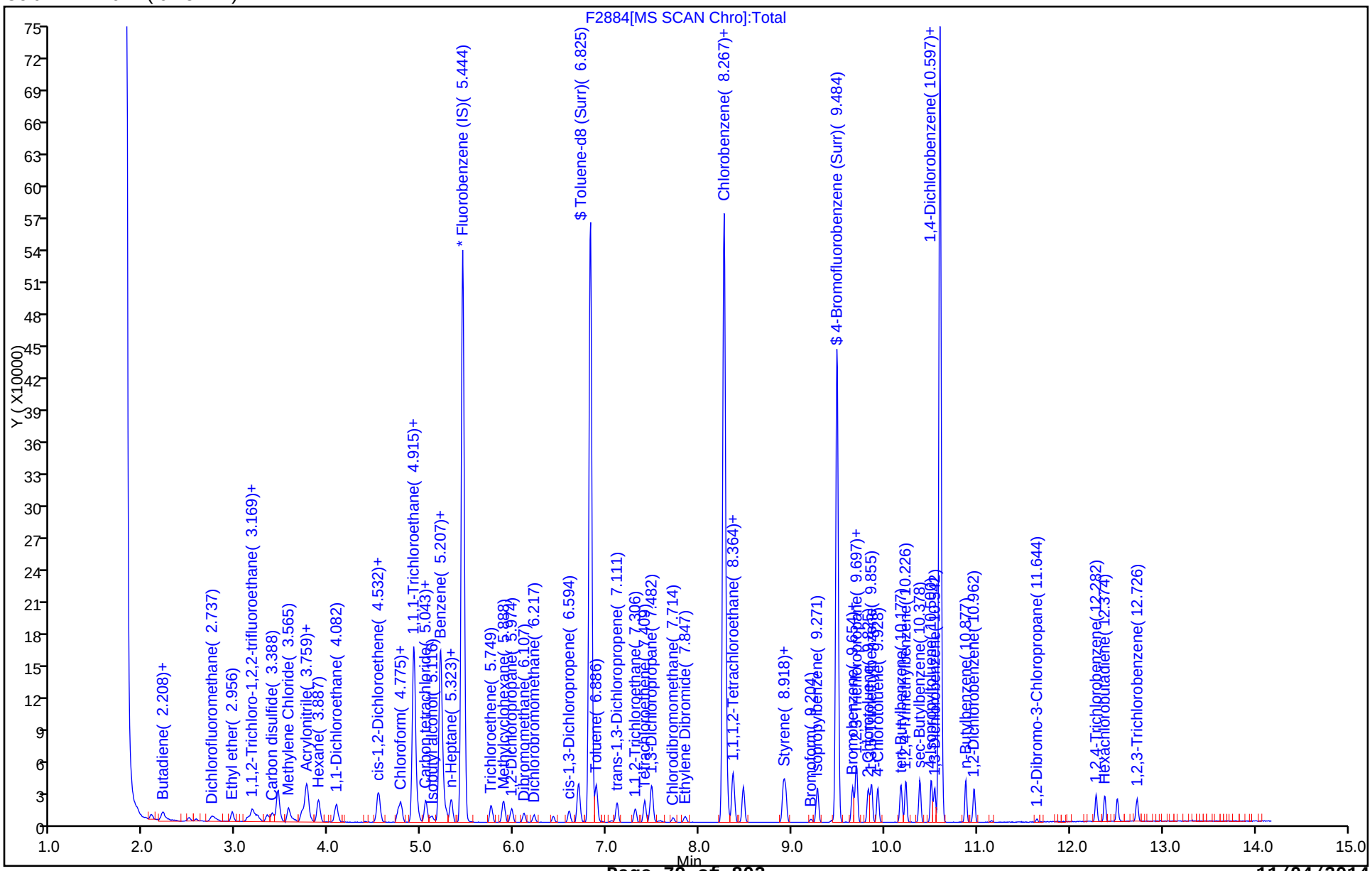
Report Date: 11-Oct-2014 10:23:27 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973F\20141010-36203.b\F2884.D

Injection Date:	10-Oct-2014 13:44:30	Instrument ID:	HP5973F	Operator ID:	NMD
Lims ID:	IC			Worklist Smp#:	4
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973F\20141010-36203.b\F2885.D
Lims ID: IC 2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 10-Oct-2014 14:10:30 ALS Bottle#: 14 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 2
Misc. Info.: 480-0036203-005480-0036203-005
Operator ID: NMD Instrument ID: HP5973F
Sublist: chrom-F-8260 SOIL*sub27

Method: \\Bufchrom\ChromData\HP5973F\20141010-36203.b\F-8260 SOIL.m
Limit Group: MV - 8260C ICAL
Last Update: 11-Oct-2014 10:41:55 Calib Date: 10-Oct-2014 16:15:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5973F\20141010-36203.b\F2890.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK007

First Level Reviewer: diasn Date: 11-Oct-2014 10:41:55

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
* 153 Fluorobenzene (IS)	70	5.444	5.444	0.000	99	129120	50.0	50.0	
* 2 Chlorobenzene-d5	82	8.267	8.267	0.000	85	245998	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.597	10.597	0.000	94	240383	50.0	50.0	
$ 154 Dibromofluoromethane (Surr	113	4.909	4.915	-0.006	94	122739	50.0	49.6	
$ 4 1,2-Dichloroethane-d4 (Sur	67	5.201	5.201	0.000	0	76305	50.0	49.9	
$ 5 Toluene-d8 (Surr)	98	6.819	6.825	-0.006	92	507640	50.0	49.9	
$ 6 4-Bromofluorobenzene (Surr	174	9.484	9.490	-0.006	93	171624	50.0	49.8	
10 Dichlorodifluoromethane	85	1.910	1.922	-0.012	97	19165	5.00	5.52	
12 Chloromethane	50	2.074	2.098	-0.024	98	16761	5.00	5.54	
13 Vinyl chloride	62	2.190	2.202	-0.012	96	15611	5.00	5.54	
151 Butadiene	54	2.202	2.220	-0.018	86	12701	5.00	5.52	M
14 Bromomethane	94	2.482	2.500	-0.018	91	8120	5.00	5.33	
15 Chloroethane	64	2.555	2.567	-0.012	97	6403	5.00	5.18	
16 Dichlorofluoromethane	67	2.731	2.737	-0.006	96	19359	5.00	5.42	
17 Trichlorofluoromethane	101	2.767	2.774	-0.007	64	17835	5.00	5.30	
18 Ethyl ether	59	2.950	2.956	-0.006	87	14273	5.00	5.22	
20 Acrolein	56	3.108	3.114	-0.006	96	8913	25.0	25.3	
21 1,1,2-Trichloro-1,2,2-trif	101	3.157	3.163	-0.006	88	15669	5.00	5.66	
22 1,1-Dichloroethene	96	3.175	3.175	0.000	97	16996	5.00	5.46	
23 Acetone	43	3.224	3.224	0.000	100	26075	25.0	26.4	
25 Iodomethane	142	3.327	3.339	-0.012	98	29406	5.00	5.29	
26 Carbon disulfide	76	3.382	3.394	-0.012	99	59645	5.00	5.06	
28 3-Chloro-1-propene	41	3.449	3.449	0.000	91	25988	5.00	5.25	
27 Methyl acetate	43	3.443	3.449	-0.006	98	72163	25.0	25.9	
30 Methylene Chloride	84	3.558	3.564	-0.006	85	21024	5.00	5.61	
31 2-Methyl-2-propanol	59	3.613	3.613	0.000	98	17819	50.0	49.2	
32 Methyl tert-butyl ether	73	3.710	3.717	-0.007	93	49771	5.00	5.10	
34 trans-1,2-Dichloroethene	96	3.747	3.753	-0.006	99	19144	5.00	5.45	
33 Acrylonitrile	53	3.765	3.765	0.000	100	63603	50.0	51.4	
35 Hexane	57	3.881	3.887	-0.006	91	31399	5.00	5.95	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
37 Vinyl acetate	43	4.063	4.069	-0.006	98	39188	10.0	9.46	
39 1,1-Dichloroethane	63	4.082	4.088	-0.006	95	31432	5.00	5.40	
43 2-Butanone (MEK)	43	4.526	4.526	0.000	97	38558	25.0	24.5	
44 2,2-Dichloropropane	77	4.526	4.532	-0.006	65	19104	5.00	5.21	
45 cis-1,2-Dichloroethene	96	4.532	4.538	-0.006	80	20359	5.00	5.39	
48 Chlorobromomethane	128	4.739	4.745	-0.006	84	9306	5.00	5.18	
49 Tetrahydrofuran	42	4.769	4.763	0.006	59	9989	10.0	9.54	
50 Chloroform	83	4.775	4.781	-0.006	94	31871	5.00	5.47	
51 1,1,1-Trichloroethane	97	4.921	4.921	0.000	54	22780	5.00	5.34	
52 Cyclohexane	56	4.945	4.952	-0.007	88	28163	5.00	5.69	
54 1,1-Dichloropropene	75	5.037	5.043	-0.006	96	23662	5.00	5.46	
55 Carbon tetrachloride	117	5.049	5.049	0.000	97	18531	5.00	5.11	
53 Isobutyl alcohol	43	5.110	5.104	0.006	93	17743	125.0	114.3	
57 Benzene	78	5.225	5.231	-0.006	95	78343	5.00	5.45	
58 1,2-Dichloroethane	62	5.268	5.268	0.000	97	23261	5.00	5.42	
59 n-Heptane	43	5.316	5.323	-0.007	88	29013	5.00	5.80	
62 Trichloroethene	95	5.748	5.755	-0.007	96	18578	5.00	5.39	
64 Methylcyclohexane	83	5.882	5.888	-0.006	87	31011	5.00	5.59	
65 1,2-Dichloropropane	63	5.974	5.974	0.000	94	16794	5.00	5.23	
66 1,4-Dioxane	88	6.071	6.077	-0.006	1	1642	100.0	98.2	M
67 Dibromomethane	93	6.107	6.107	0.000	94	9953	5.00	5.09	
68 Dichlorobromomethane	83	6.211	6.217	-0.006	98	18354	5.00	4.75	
69 2-Chloroethyl vinyl ether	63	6.424	6.424	0.000	92	8685	5.00	4.30	
72 cis-1,3-Dichloropropene	75	6.594	6.594	0.000	96	23389	5.00	4.77	
73 4-Methyl-2-pentanone (MIBK	43	6.691	6.691	0.000	95	74967	25.0	24.4	
74 Toluene	92	6.886	6.886	0.000	99	49305	5.00	5.52	
75 Ethyl methacrylate	69	7.111	7.105	0.006	79	19009	5.00	4.40	
77 trans-1,3-Dichloropropene	75	7.111	7.111	0.000	94	19119	5.00	4.65	
79 1,1,2-Trichloroethane	83	7.306	7.306	0.000	91	12351	5.00	5.17	
81 Tetrachloroethene	166	7.409	7.409	0.000	98	21013	5.00	5.60	
82 1,3-Dichloropropane	76	7.470	7.476	-0.006	95	26712	5.00	5.25	
80 2-Hexanone	43	7.482	7.482	0.000	92	51764	25.0	23.6	
83 Chlorodibromomethane	129	7.713	7.713	0.000	89	11602	5.00	5.22	
84 Ethylene Dibromide	107	7.841	7.847	-0.006	98	14389	5.00	5.03	
87 Chlorobenzene	112	8.297	8.297	0.000	96	51249	5.00	5.46	
88 Ethylbenzene	91	8.358	8.358	0.000	98	85663	5.00	5.40	
89 1,1,1,2-Tetrachloroethane	131	8.370	8.377	-0.007	93	14182	5.00	4.93	
90 m-Xylene & p-Xylene	106	8.474	8.474	0.000	100	32732	5.00	5.21	
91 o-Xylene	106	8.906	8.906	0.000	96	30790	5.00	5.25	
92 Styrene	104	8.930	8.930	0.000	93	49745	5.00	5.03	
95 Bromoform	173	9.204	9.204	0.000	90	6750	5.00	5.27	
94 Isopropylbenzene	105	9.277	9.277	0.000	96	78655	5.00	5.31	
97 1,1,2,2-Tetrachloroethane	83	9.648	9.648	0.000	96	18370	5.00	4.97	
101 Bromobenzene	156	9.660	9.654	0.006	90	21758	5.00	5.34	
98 trans-1,4-Dichloro-2-buten	53	9.697	9.691	0.006	65	4512	5.00	4.42	
99 N-Propylbenzene	91	9.691	9.691	0.000	99	98252	5.00	5.47	
100 1,2,3-Trichloropropane	110	9.703	9.703	0.000	82	6203	5.00	5.30	
103 2-Chlorotoluene	126	9.824	9.824	0.000	97	19166	5.00	5.26	
102 1,3,5-Trimethylbenzene	105	9.855	9.855	0.000	94	67013	5.00	5.34	
105 4-Chlorotoluene	126	9.928	9.928	0.000	97	20391	5.00	5.35	
106 tert-Butylbenzene	134	10.177	10.177	0.000	92	14984	5.00	5.30	
107 1,2,4-Trimethylbenzene	105	10.226	10.226	0.000	96	68194	5.00	5.28	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
109 sec-Butylbenzene	105	10.378	10.378	0.000	94	86171	5.00	5.41	
110 4-Isopropyltoluene	119	10.506	10.506	0.000	97	74234	5.00	5.34	
111 1,3-Dichlorobenzene	146	10.542	10.542	0.000	97	42394	5.00	5.47	
113 1,4-Dichlorobenzene	146	10.621	10.621	0.000	95	42946	5.00	5.45	
115 n-Butylbenzene	91	10.877	10.877	0.000	98	65830	5.00	5.33	
116 1,2-Dichlorobenzene	146	10.962	10.968	-0.006	98	39298	5.00	5.34	
117 1,2-Dibromo-3-Chloropropan	75	11.643	11.643	0.000	77	2358	5.00	5.12	
119 1,2,4-Trichlorobenzene	180	12.282	12.282	0.000	94	25953	5.00	5.16	
120 Hexachlorobutadiene	225	12.380	12.380	0.000	95	17398	5.00	5.65	
121 Naphthalene	128	12.513	12.513	0.000	97	53657	5.00	4.55	
122 1,2,3-Trichlorobenzene	180	12.726	12.726	0.000	95	24362	5.00	5.15	
S 125 1,2-Dichloroethene, Total	1				0			10.8	
S 126 1,3-Dichloropropene, Total	1				0			9.42	
S 123 Total BTEX	1				0			26.8	
S 124 Xylenes, Total	1				0			10.5	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00024	Amount Added:	5.00	Units: uL	
GAS CORP mix_00050	Amount Added:	5.00	Units: uL	
F 8260 SURR_00110	Amount Added:	1.00	Units: uL	Run Reagent
F 8260 IS_00276	Amount Added:	1.00	Units: uL	Run Reagent

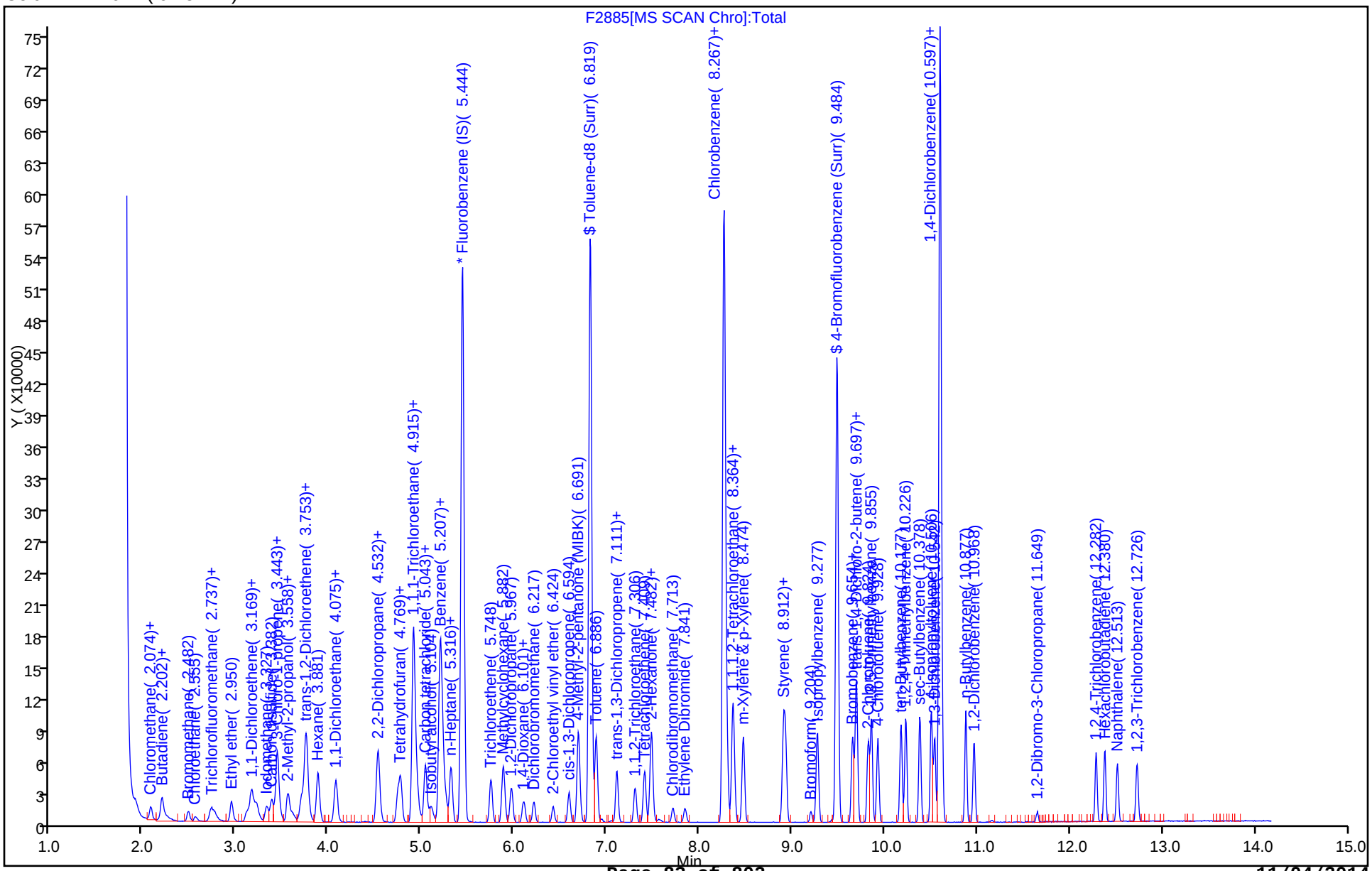
Report Date: 11-Oct-2014 10:41:56 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973F\20141010-36203.b\F2885.D

Injection Date:	10-Oct-2014 14:10:30	Instrument ID:	HP5973F	Operator ID:	NMD
Lims ID:	IC 2			Worklist Smp#:	5
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



Manual Integration/User Assign Peak Report

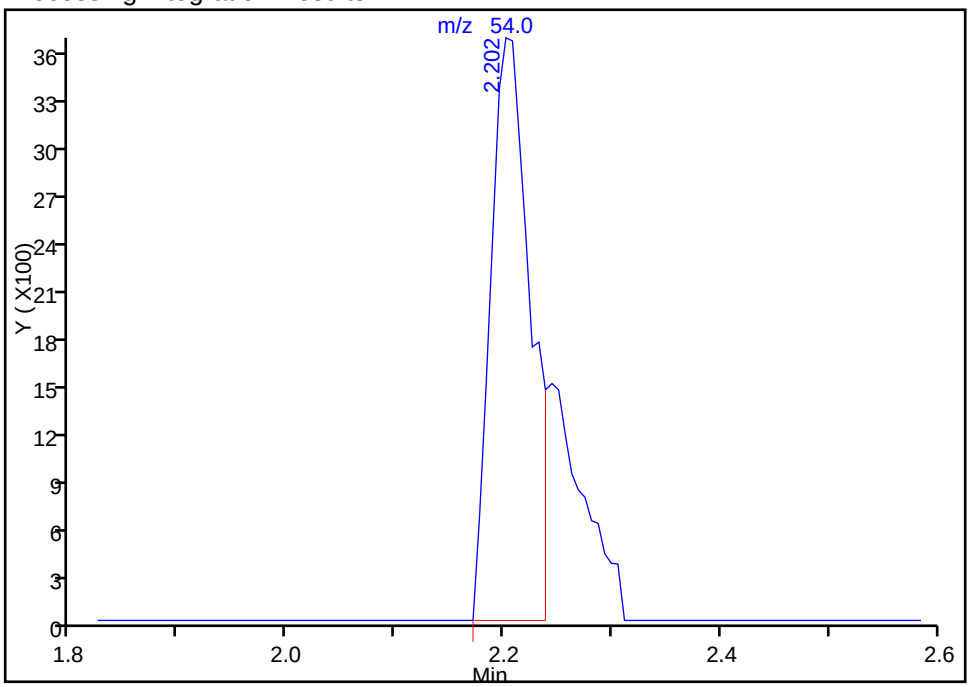
TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973F\20141010-36203.b\F2885.D
Injection Date: 10-Oct-2014 14:10:30 Instrument ID: HP5973F
Lims ID: IC 2
Client ID:
Operator ID: NMD ALS Bottle#: 14 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: F-8260 SOIL Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

151 Butadiene, CAS: 106-99-0

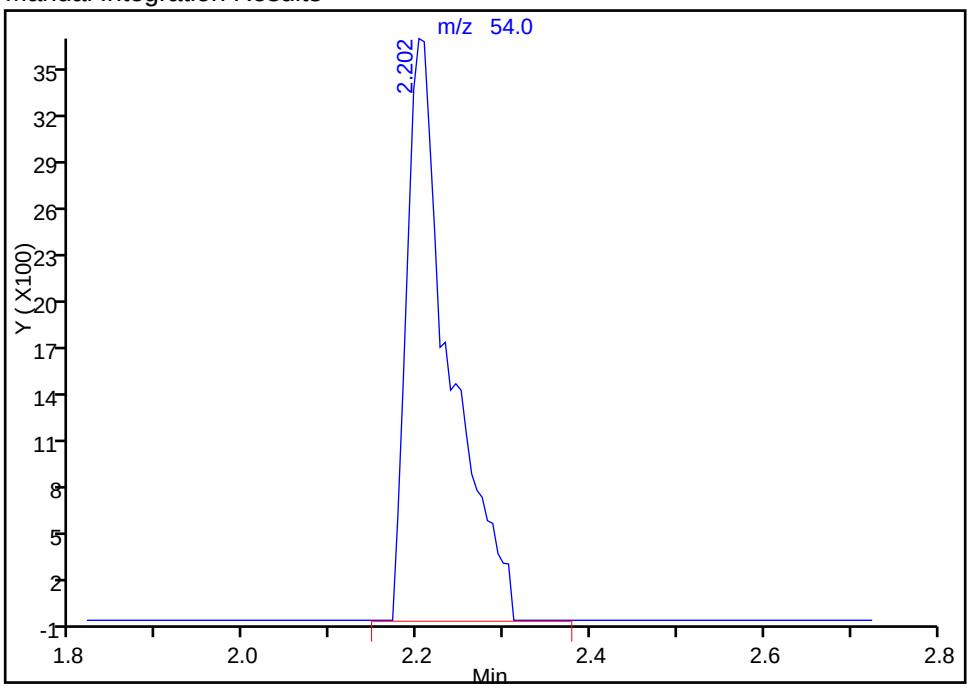
Processing Integration Results

RT: 2.20
Response: 9337
Amount: 4.288037



Manual Integration Results

RT: 2.20
Response: 12701
Amount: 5.517828



Reviewer: diasn, 11-Oct-2014 10:31:00
Audit Action: Manually Integrated
Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

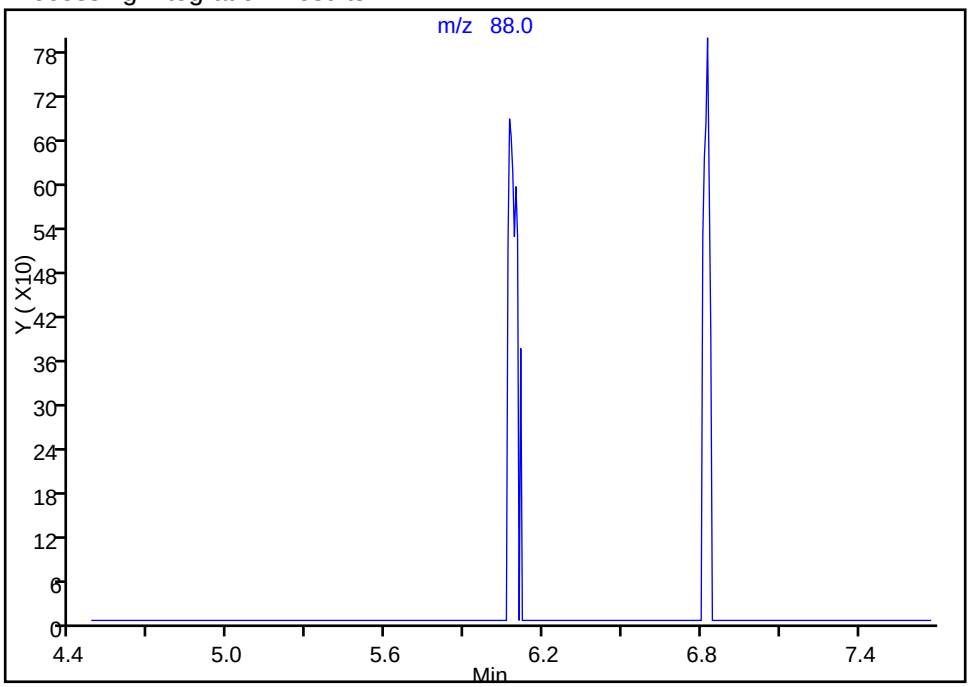
TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973F\20141010-36203.b\F2885.D
Injection Date: 10-Oct-2014 14:10:30 Instrument ID: HP5973F
Lims ID: IC 2
Client ID:
Operator ID: NMD ALS Bottle#: 14 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: F-8260 SOIL Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

66 1,4-Dioxane, CAS: 123-91-1

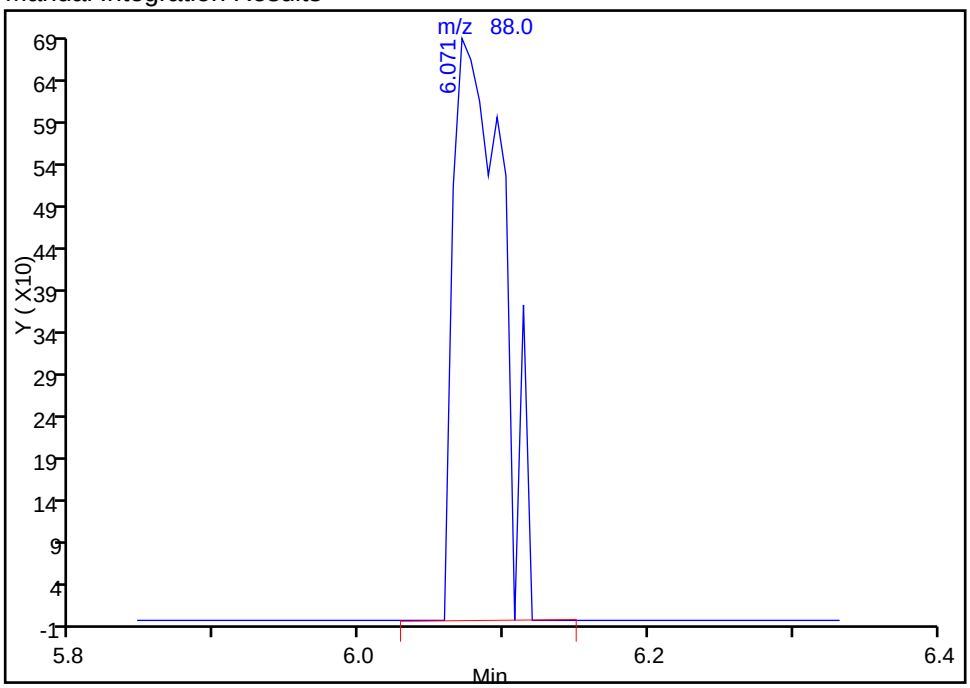
Not Detected
Expected RT: 6.08

Processing Integration Results



Manual Integration Results

RT: 6.07
Response: 1642
Amount: 98.200329



Reviewer: diasn, 11-Oct-2014 10:31:00
Audit Action: Manually Integrated
Audit Reason: Missed Peak

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973F\20141010-36203.b\F2886.D
Lims ID: IC 3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 10-Oct-2014 14:35:30 ALS Bottle#: 15 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 3
Misc. Info.: 480-0036203-006480-0036203-006
Operator ID: NMD Instrument ID: HP5973F
Sublist: chrom-F-8260 SOIL*sub27

Method: \\Bufchrom\ChromData\HP5973F\20141010-36203.b\F-8260 SOIL.m
Limit Group: MV - 8260C ICAL
Last Update: 11-Oct-2014 10:42:01 Calib Date: 10-Oct-2014 16:15:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5973F\20141010-36203.b\F2890.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK007

First Level Reviewer: diasn Date: 11-Oct-2014 10:42:01

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
* 153 Fluorobenzene (IS)	70	5.444	5.444	0.000	99	129702	50.0	50.0	
* 2 Chlorobenzene-d5	82	8.267	8.267	0.000	85	247222	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.597	10.597	0.000	94	243230	50.0	50.0	
$ 154 Dibromofluoromethane (Surr	113	4.915	4.915	0.000	94	124321	50.0	50.0	
$ 4 1,2-Dichloroethane-d4 (Sur	67	5.201	5.201	0.000	0	77929	50.0	50.7	
$ 5 Toluene-d8 (Surr)	98	6.819	6.825	-0.006	92	513404	50.0	50.2	
$ 6 4-Bromofluorobenzene (Surr	174	9.484	9.490	-0.006	92	173120	50.0	50.0	
10 Dichlorodifluoromethane	85	1.909	1.922	-0.013	98	35548	10.0	10.2	
12 Chloromethane	50	2.080	2.098	-0.018	99	31837	10.0	10.5	
13 Vinyl chloride	62	2.189	2.202	-0.013	97	29258	10.0	10.3	
151 Butadiene	54	2.201	2.220	-0.019	91	24306	10.0	10.5	M
14 Bromomethane	94	2.481	2.500	-0.019	92	15936	10.0	10.4	
15 Chloroethane	64	2.560	2.567	-0.007	99	12547	10.0	10.1	
16 Dichlorofluoromethane	67	2.731	2.737	-0.006	98	37206	10.0	10.4	
17 Trichlorofluoromethane	101	2.761	2.774	-0.013	93	33262	10.0	9.84	
18 Ethyl ether	59	2.950	2.956	-0.006	88	29148	10.0	10.6	
20 Acrolein	56	3.108	3.114	-0.006	98	17869	50.0	50.5	
21 1,1,2-Trichloro-1,2,2-trif	101	3.157	3.163	-0.006	93	28684	10.0	10.3	
22 1,1-Dichloroethene	96	3.169	3.175	-0.006	98	32286	10.0	10.3	
23 Acetone	43	3.224	3.224	0.000	99	53089	50.0	53.4	
25 Iodomethane	142	3.327	3.339	-0.012	98	57482	10.0	10.3	
26 Carbon disulfide	76	3.388	3.394	-0.006	98	118694	10.0	10.0	M
28 3-Chloro-1-propene	41	3.443	3.449	-0.006	60	50592	10.0	10.2	
27 Methyl acetate	43	3.443	3.449	-0.006	96	147595	50.0	52.7	
30 Methylene Chloride	84	3.558	3.564	-0.006	85	38747	10.0	10.3	
31 2-Methyl-2-propanol	59	3.613	3.613	0.000	99	36806	100.0	101.1	
32 Methyl tert-butyl ether	73	3.710	3.717	-0.007	93	102568	10.0	10.5	
34 trans-1,2-Dichloroethene	96	3.747	3.753	-0.006	98	36768	10.0	10.4	
33 Acrylonitrile	53	3.759	3.765	-0.006	100	131285	100.0	105.7	
35 Hexane	57	3.881	3.887	-0.006	91	53924	10.0	10.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
37 Vinyl acetate	43	4.063	4.069	-0.006	97	83595	20.0	20.1	
39 1,1-Dichloroethane	63	4.081	4.088	-0.007	96	61035	10.0	10.4	
43 2-Butanone (MEK)	43	4.525	4.526	-0.001	98	82448	50.0	52.1	
44 2,2-Dichloropropane	77	4.525	4.532	-0.007	51	37574	10.0	10.2	
45 cis-1,2-Dichloroethene	96	4.538	4.538	0.000	78	39733	10.0	10.5	
48 Chlorobromomethane	128	4.744	4.745	-0.001	94	18656	10.0	10.3	
49 Tetrahydrofuran	42	4.763	4.763	0.000	86	21414	20.0	20.4	
50 Chloroform	83	4.775	4.781	-0.006	94	60074	10.0	10.3	
51 1,1,1-Trichloroethane	97	4.921	4.921	0.000	96	43768	10.0	10.2	
52 Cyclohexane	56	4.951	4.952	-0.001	86	50670	10.0	10.2	
54 1,1-Dichloropropene	75	5.043	5.043	0.000	98	44932	10.0	10.3	
55 Carbon tetrachloride	117	5.049	5.049	0.000	98	36024	10.0	9.90	
53 Isobutyl alcohol	43	5.103	5.104	-0.001	93	40312	250.0	258.6	
57 Benzene	78	5.225	5.231	-0.006	95	150100	10.0	10.4	
58 1,2-Dichloroethane	62	5.262	5.268	-0.006	96	44319	10.0	10.3	
59 n-Heptane	43	5.322	5.323	-0.001	89	50552	10.0	10.1	
62 Trichloroethene	95	5.748	5.755	-0.007	98	35304	10.0	10.2	
64 Methylcyclohexane	83	5.888	5.888	0.000	87	56417	10.0	10.1	
65 1,2-Dichloropropane	63	5.973	5.974	-0.001	95	33024	10.0	10.2	
66 1,4-Dioxane	88	6.071	6.077	-0.006	86	6744	200.0	221.8	
67 Dibromomethane	93	6.101	6.107	-0.006	96	20020	10.0	10.2	
68 Dichlorobromomethane	83	6.211	6.217	-0.006	99	37538	10.0	9.68	
69 2-Chloroethyl vinyl ether	63	6.417	6.424	-0.007	91	19569	10.0	9.65	
72 cis-1,3-Dichloropropene	75	6.594	6.594	0.000	96	48449	10.0	9.84	
73 4-Methyl-2-pentanone (MIBK	43	6.691	6.691	0.000	95	159276	50.0	51.6	
74 Toluene	92	6.886	6.886	0.000	99	93064	10.0	10.4	
75 Ethyl methacrylate	69	7.105	7.105	0.000	81	42043	10.0	9.69	
77 trans-1,3-Dichloropropene	75	7.111	7.111	0.000	94	40481	10.0	9.80	
79 1,1,2-Trichloroethane	83	7.306	7.306	0.000	91	24790	10.0	10.3	
81 Tetrachloroethene	166	7.409	7.409	0.000	98	39282	10.0	10.4	
82 1,3-Dichloropropane	76	7.470	7.476	-0.006	97	53846	10.0	10.5	
80 2-Hexanone	43	7.482	7.482	0.000	94	110938	50.0	50.3	
83 Chlorodibromomethane	129	7.713	7.713	0.000	89	25383	10.0	9.39	
84 Ethylene Dibromide	107	7.841	7.847	-0.006	99	29225	10.0	10.2	
87 Chlorobenzene	112	8.297	8.297	0.000	96	98844	10.0	10.5	
88 Ethylbenzene	91	8.358	8.358	0.000	98	168203	10.0	10.6	
89 1,1,1,2-Tetrachloroethane	131	8.376	8.377	-0.001	92	28823	10.0	9.96	
90 m-Xylene & p-Xylene	106	8.474	8.474	0.000	100	64028	10.0	10.2	
91 o-Xylene	106	8.906	8.906	0.000	96	61773	10.0	10.5	
92 Styrene	104	8.930	8.930	0.000	94	101911	10.0	10.2	
95 Bromoform	173	9.204	9.204	0.000	96	14508	10.0	8.71	
94 Isopropylbenzene	105	9.271	9.277	-0.006	95	155802	10.0	10.4	
97 1,1,2,2-Tetrachloroethane	83	9.648	9.648	0.000	96	38824	10.0	10.4	
101 Bromobenzene	156	9.660	9.654	0.006	90	43030	10.0	10.4	
98 trans-1,4-Dichloro-2-buten	53	9.696	9.691	0.005	60	9852	10.0	9.54	
99 N-Propylbenzene	91	9.690	9.691	-0.001	99	190828	10.0	10.5	
100 1,2,3-Trichloropropane	110	9.703	9.703	0.000	83	12499	10.0	10.6	
103 2-Chlorotoluene	126	9.824	9.824	0.000	97	38358	10.0	10.4	
102 1,3,5-Trimethylbenzene	105	9.855	9.855	0.000	94	131623	10.0	10.4	
105 4-Chlorotoluene	126	9.928	9.928	0.000	97	40010	10.0	10.4	
106 tert-Butylbenzene	134	10.177	10.177	0.000	92	29390	10.0	10.3	
107 1,2,4-Trimethylbenzene	105	10.226	10.226	0.000	96	136463	10.0	10.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
109 sec-Butylbenzene	105	10.378	10.378	0.000	94	166843	10.0	10.4	
110 4-Isopropyltoluene	119	10.506	10.506	0.000	97	146214	10.0	10.4	
111 1,3-Dichlorobenzene	146	10.542	10.542	0.000	97	81779	10.0	10.4	
113 1,4-Dichlorobenzene	146	10.621	10.621	0.000	96	83238	10.0	10.4	
115 n-Butylbenzene	91	10.877	10.877	0.000	98	127639	10.0	10.2	
116 1,2-Dichlorobenzene	146	10.968	10.968	0.000	98	77291	10.0	10.4	
117 1,2-Dibromo-3-Chloropropan	75	11.643	11.643	0.000	85	5307	10.0	8.98	
119 1,2,4-Trichlorobenzene	180	12.282	12.282	0.000	94	51408	10.0	10.1	
120 Hexachlorobutadiene	225	12.379	12.380	-0.001	96	31707	10.0	10.2	
121 Naphthalene	128	12.513	12.513	0.000	97	113922	10.0	9.55	
122 1,2,3-Trichlorobenzene	180	12.726	12.726	0.000	96	48876	10.0	10.2	
S 125 1,2-Dichloroethene, Total	1				0			20.9	
S 126 1,3-Dichloropropene, Total	1				0			19.6	
S 123 Total BTEX	1				0			52.0	
S 124 Xylenes, Total	1				0			20.6	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00024	Amount Added:	10.00	Units: uL	
GAS CORP mix_00050	Amount Added:	10.00	Units: uL	
F 8260 SURR_00110	Amount Added:	1.00	Units: uL	Run Reagent
F 8260 IS_00276	Amount Added:	1.00	Units: uL	Run Reagent

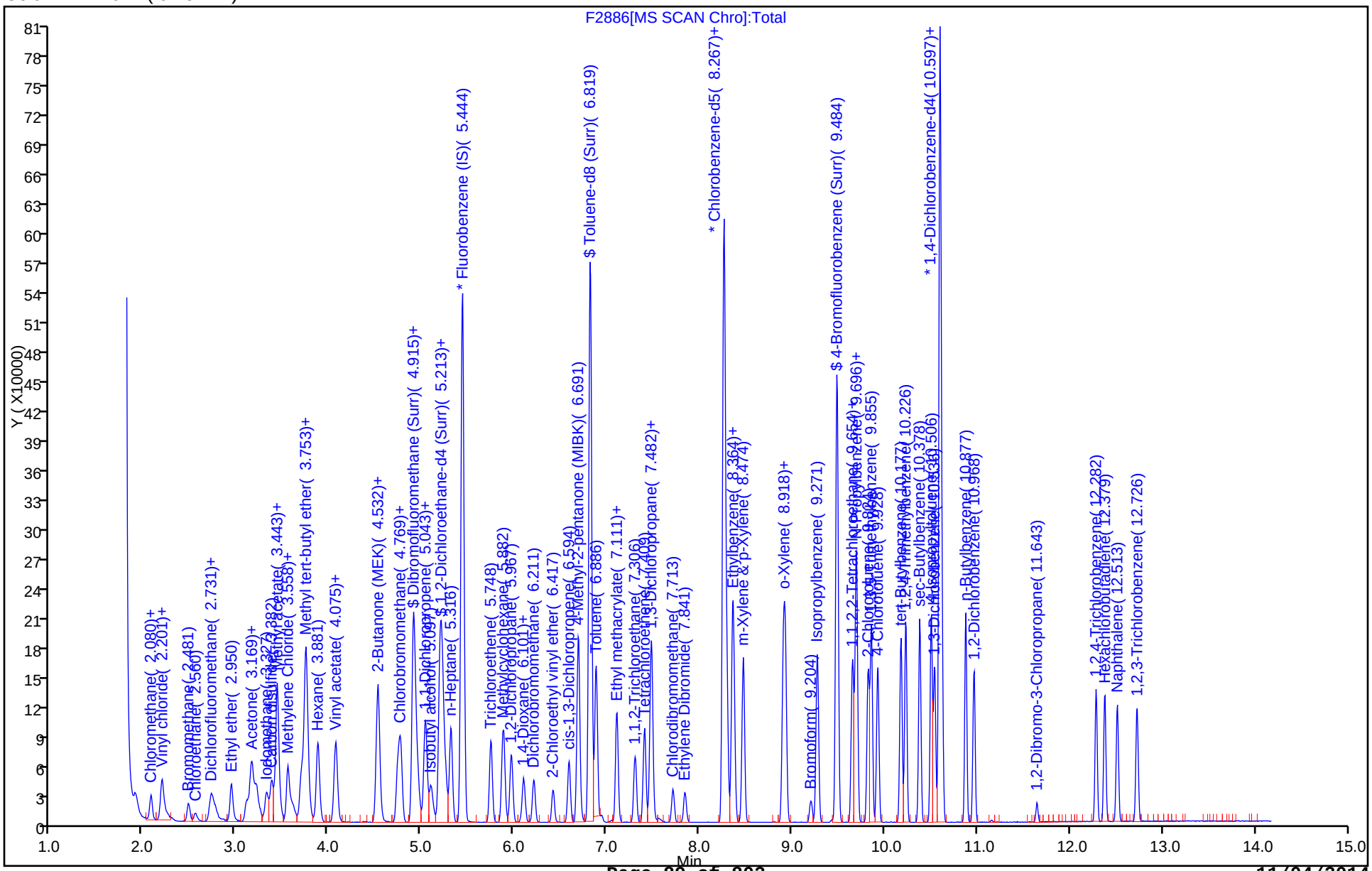
Report Date: 11-Oct-2014 10:42:03 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973F\20141010-36203.b\F2886.D

Injection Date:	10-Oct-2014 14:35:30	Instrument ID:	HP5973F	Operator ID:	NMD
Lims ID:	IC 3			Worklist Smp#:	6
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	15
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



Manual Integration/User Assign Peak Report

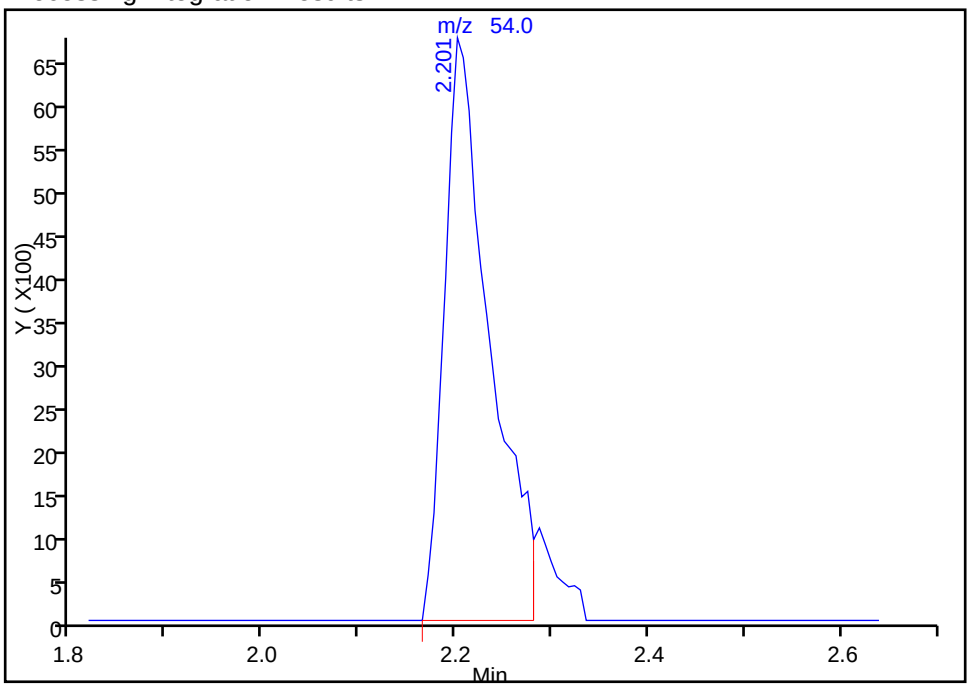
TestAmerica Buffalo

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Injection Date: 10-Oct-2014 14:35:30 Instrument ID: HP5973F
Lims ID: IC 3
Client ID:
Operator ID: NMD ALS Bottle#: 15 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: F-8260 SOIL Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

151 Butadiene, CAS: 106-99-0

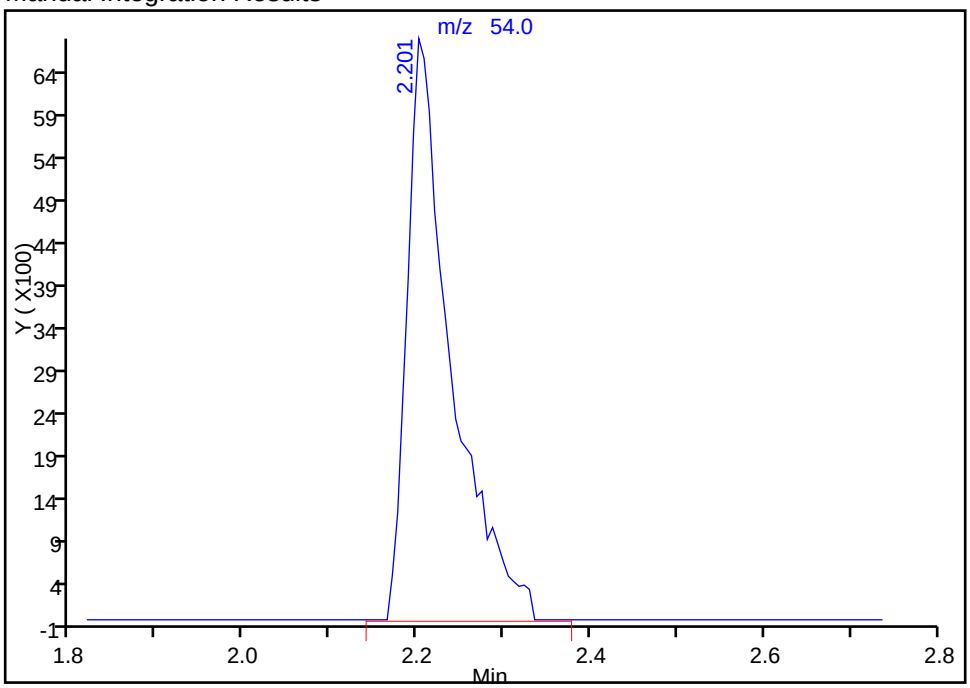
Processing Integration Results

RT: 2.20
Response: 22320
Amount: 9.773120



Manual Integration Results

RT: 2.20
Response: 24306
Amount: 10.512127



Reviewer: diasn, 11-Oct-2014 10:32:40
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

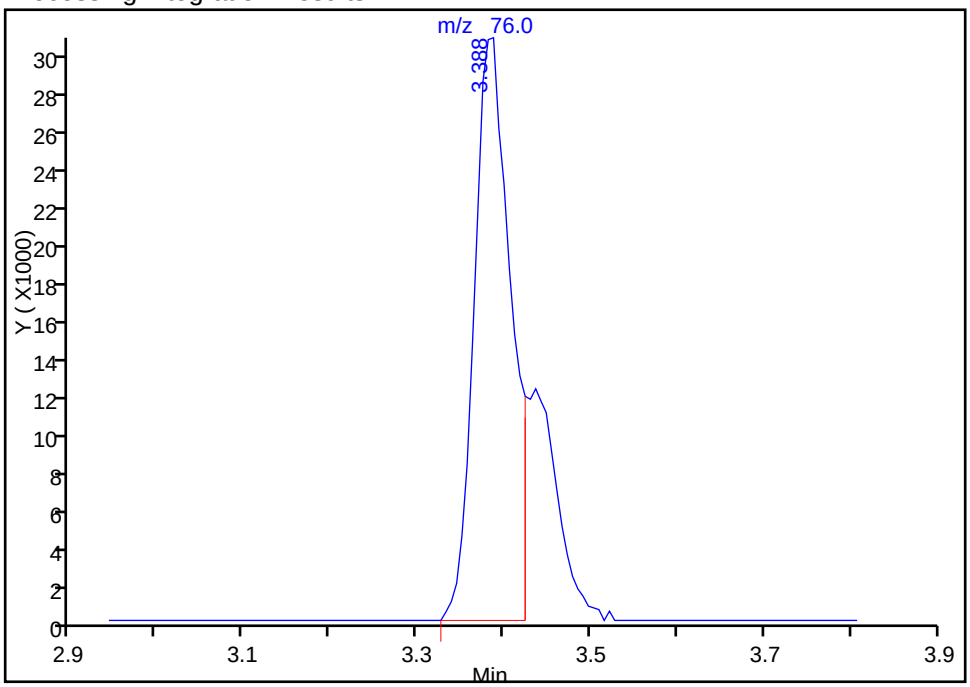
TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973F\20141010-36203.b\F2886.D
Injection Date: 10-Oct-2014 14:35:30 Instrument ID: HP5973F
Lims ID: IC 3
Client ID:
Operator ID: NMD ALS Bottle#: 15 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: F-8260 SOIL Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

26 Carbon disulfide, CAS: 75-15-0

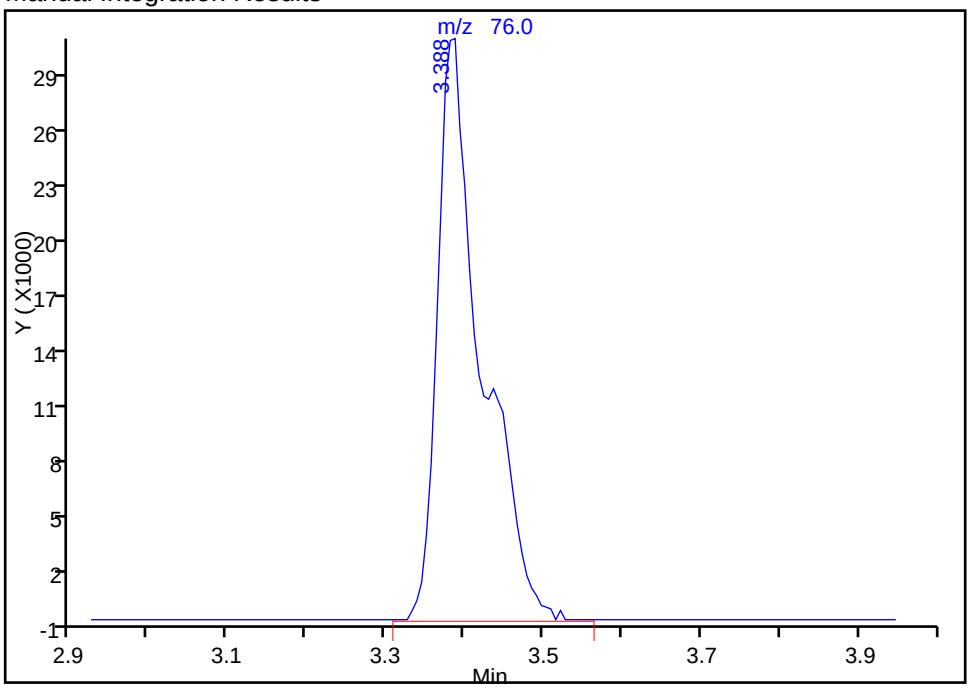
Processing Integration Results

RT: 3.39
Response: 89327
Amount: 8.131962



Manual Integration Results

RT: 3.39
Response: 118694
Amount: 10.022137



Reviewer: diasn, 11-Oct-2014 10:32:40
Audit Action: Manually Integrated
Audit Reason: Split Peak

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973F\20141010-36203.b\F2887.D
Lims ID: IC 4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 10-Oct-2014 15:00:30 ALS Bottle#: 16 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 4
Misc. Info.: 480-0036203-007480-0036203-007
Operator ID: NMD Instrument ID: HP5973F
Sublist: chrom-F-8260 SOIL*sub27

Method: \\Bufchrom\ChromData\HP5973F\20141010-36203.b\F-8260 SOIL.m
Limit Group: MV - 8260C ICAL
Last Update: 11-Oct-2014 10:42:07 Calib Date: 10-Oct-2014 16:15:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5973F\20141010-36203.b\F2890.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK007

First Level Reviewer: diasn Date: 11-Oct-2014 10:42:07

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
* 153 Fluorobenzene (IS)	70	5.444	5.444	0.000	99	129201	50.0	50.0	
* 2 Chlorobenzene-d5	82	8.267	8.267	0.000	84	247451	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.597	10.597	0.000	94	243692	50.0	50.0	
$ 154 Dibromofluoromethane (Surr	113	4.915	4.915	0.000	94	123909	50.0	50.1	
$ 4 1,2-Dichloroethane-d4 (Sur	67	5.201	5.201	0.000	0	76208	50.0	49.8	
$ 5 Toluene-d8 (Surr)	98	6.819	6.825	-0.006	92	515199	50.0	50.3	
$ 6 4-Bromofluorobenzene (Surr	174	9.484	9.490	-0.006	93	174677	50.0	50.4	
10 Dichlorodifluoromethane	85	1.922	1.922	0.000	99	59573	20.0	17.1	
12 Chloromethane	50	2.086	2.098	-0.012	99	57212	20.0	18.9	
13 Vinyl chloride	62	2.196	2.202	-0.006	99	52626	20.0	18.7	
151 Butadiene	54	2.208	2.220	-0.012	92	41240	20.0	17.9	
14 Bromomethane	94	2.488	2.500	-0.012	91	30870	20.0	20.2	
15 Chloroethane	64	2.561	2.567	-0.006	99	24018	20.0	19.4	
16 Dichlorofluoromethane	67	2.731	2.737	-0.006	98	69812	20.0	19.5	
17 Trichlorofluoromethane	101	2.767	2.774	-0.007	99	58704	20.0	17.4	
18 Ethyl ether	59	2.950	2.956	-0.006	88	50570	20.0	18.5	
20 Acrolein	56	3.114	3.114	0.000	100	31978	100.0	90.8	
21 1,1,2-Trichloro-1,2,2-trif	101	3.157	3.163	-0.006	92	45399	20.0	16.4	
22 1,1-Dichloroethene	96	3.175	3.175	0.000	98	50185	20.0	16.1	
23 Acetone	43	3.224	3.224	0.000	100	90723	100.0	91.6	
25 Iodomethane	142	3.333	3.339	-0.006	98	97172	20.0	17.5	
26 Carbon disulfide	76	3.382	3.394	-0.012	99	194671	20.0	16.5	M
28 3-Chloro-1-propene	41	3.449	3.449	0.000	88	84464	20.0	17.1	
27 Methyl acetate	43	3.443	3.449	-0.006	97	256964	100.0	92.1	
30 Methylene Chloride	84	3.558	3.564	-0.006	87	64504	20.0	17.2	
31 2-Methyl-2-propanol	59	3.607	3.613	-0.006	99	64701	200.0	178.5	
32 Methyl tert-butyl ether	73	3.710	3.717	-0.007	93	179779	20.0	18.4	
34 trans-1,2-Dichloroethene	96	3.747	3.753	-0.006	98	60272	20.0	17.1	
33 Acrylonitrile	53	3.759	3.765	-0.006	100	227493	200.0	183.8	
35 Hexane	57	3.887	3.887	0.000	91	75760	20.0	14.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
37 Vinyl acetate	43	4.063	4.069	-0.006	97	148705	40.0	35.9	
39 1,1-Dichloroethane	63	4.081	4.088	-0.007	96	101343	20.0	17.4	
43 2-Butanone (MEK)	43	4.526	4.526	0.000	98	141076	100.0	89.4	
44 2,2-Dichloropropane	77	4.526	4.532	-0.006	57	62091	20.0	16.9	
45 cis-1,2-Dichloroethene	96	4.538	4.538	0.000	79	66976	20.0	17.7	
48 Chlorobromomethane	128	4.745	4.745	0.000	93	31796	20.0	17.7	
49 Tetrahydrofuran	42	4.763	4.763	0.000	84	38407	40.0	36.7	
50 Chloroform	83	4.775	4.781	-0.006	94	102539	20.0	17.6	
51 1,1,1-Trichloroethane	97	4.921	4.921	0.000	96	70309	20.0	16.5	
52 Cyclohexane	56	4.945	4.952	-0.007	87	74472	20.0	15.0	
54 1,1-Dichloropropene	75	5.037	5.043	-0.006	98	69810	20.0	16.1	
55 Carbon tetrachloride	117	5.055	5.049	0.006	73	57039	20.0	15.7	
53 Isobutyl alcohol	43	5.104	5.104	0.000	94	71787	500.0	462.2	
57 Benzene	78	5.225	5.231	-0.006	95	248237	20.0	17.3	
58 1,2-Dichloroethane	62	5.262	5.268	-0.006	98	76409	20.0	17.8	
59 n-Heptane	43	5.316	5.323	-0.007	89	75411	20.0	15.1	
62 Trichloroethene	95	5.748	5.755	-0.007	98	58724	20.0	17.0	
64 Methylcyclohexane	83	5.882	5.888	-0.006	86	84537	20.0	15.2	
65 1,2-Dichloropropane	63	5.967	5.974	-0.007	95	56415	20.0	17.6	
66 1,4-Dioxane	88	6.083	6.077	0.006	90	13371	400.0	382.2	
67 Dibromomethane	93	6.101	6.107	-0.006	94	35286	20.0	18.0	
68 Dichlorobromomethane	83	6.211	6.217	-0.006	100	67345	20.0	17.4	
69 2-Chloroethyl vinyl ether	63	6.424	6.424	0.000	92	35198	20.0	17.4	
72 cis-1,3-Dichloropropene	75	6.594	6.594	0.000	97	87109	20.0	17.8	
73 4-Methyl-2-pentanone (MIBK	43	6.691	6.691	0.000	95	284279	100.0	92.0	
74 Toluene	92	6.886	6.886	0.000	99	154310	20.0	17.2	
75 Ethyl methacrylate	69	7.105	7.105	0.000	88	75850	20.0	17.5	
77 trans-1,3-Dichloropropene	75	7.111	7.111	0.000	96	74285	20.0	18.0	
79 1,1,2-Trichloroethane	83	7.306	7.306	0.000	91	43966	20.0	18.3	
81 Tetrachloroethene	166	7.409	7.409	0.000	98	62474	20.0	16.5	
82 1,3-Dichloropropane	76	7.476	7.476	0.000	96	92709	20.0	18.1	
80 2-Hexanone	43	7.482	7.482	0.000	93	201207	100.0	91.2	
83 Chlorodibromomethane	129	7.713	7.713	0.000	89	46620	20.0	15.8	
84 Ethylene Dibromide	107	7.847	7.847	0.000	99	52316	20.0	18.2	
87 Chlorobenzene	112	8.297	8.297	0.000	96	165671	20.0	17.5	
88 Ethylbenzene	91	8.358	8.358	0.000	98	278699	20.0	17.5	
89 1,1,1,2-Tetrachloroethane	131	8.376	8.377	-0.001	94	50602	20.0	17.5	
90 m-Xylene & p-Xylene	106	8.474	8.474	0.000	100	107722	20.0	17.1	
91 o-Xylene	106	8.906	8.906	0.000	96	104314	20.0	17.7	
92 Styrene	104	8.930	8.930	0.000	94	178206	20.0	17.9	
95 Bromoform	173	9.204	9.204	0.000	98	27937	20.0	14.7	
94 Isopropylbenzene	105	9.271	9.277	-0.006	96	260237	20.0	17.3	
97 1,1,2,2-Tetrachloroethane	83	9.648	9.648	0.000	97	68685	20.0	18.3	
101 Bromobenzene	156	9.660	9.654	0.006	89	74248	20.0	18.0	
98 trans-1,4-Dichloro-2-buten	53	9.691	9.691	0.000	64	18131	20.0	17.5	
99 N-Propylbenzene	91	9.697	9.691	0.006	99	315451	20.0	17.3	
100 1,2,3-Trichloropropane	110	9.703	9.703	0.000	84	21292	20.0	18.0	
103 2-Chlorotoluene	126	9.824	9.824	0.000	97	63575	20.0	17.2	
102 1,3,5-Trimethylbenzene	105	9.855	9.855	0.000	94	223070	20.0	17.5	
105 4-Chlorotoluene	126	9.928	9.928	0.000	97	67754	20.0	17.5	
106 tert-Butylbenzene	134	10.177	10.177	0.000	92	48884	20.0	17.0	
107 1,2,4-Trimethylbenzene	105	10.232	10.226	0.006	96	232039	20.0	17.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
109 sec-Butylbenzene	105	10.378	10.378	0.000	94	273412	20.0	16.9	
110 4-Isopropyltoluene	119	10.506	10.506	0.000	97	242213	20.0	17.2	
111 1,3-Dichlorobenzene	146	10.542	10.542	0.000	98	138364	20.0	17.6	
113 1,4-Dichlorobenzene	146	10.621	10.621	0.000	95	141463	20.0	17.7	
115 n-Butylbenzene	91	10.877	10.877	0.000	97	214002	20.0	17.1	
116 1,2-Dichlorobenzene	146	10.968	10.968	0.000	99	134455	20.0	18.0	
117 1,2-Dibromo-3-Chloropropan	75	11.643	11.643	0.000	87	10250	20.0	15.5	
119 1,2,4-Trichlorobenzene	180	12.282	12.282	0.000	94	92415	20.0	18.1	
120 Hexachlorobutadiene	225	12.379	12.380	-0.001	96	49997	20.0	16.0	
121 Naphthalene	128	12.513	12.513	0.000	97	211181	20.0	17.7	
122 1,2,3-Trichlorobenzene	180	12.726	12.726	0.000	96	87042	20.0	18.2	
S 125 1,2-Dichloroethene, Total	1				0			34.9	
S 126 1,3-Dichloropropene, Total	1				0			35.7	
S 123 Total BTEX	1				0			86.7	
S 124 Xylenes, Total	1				0			34.7	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00024	Amount Added:	10.00	Units: uL	
GAS CORP mix_00050	Amount Added:	10.00	Units: uL	
F 8260 SURR_00110	Amount Added:	1.00	Units: uL	Run Reagent
F 8260 IS_00276	Amount Added:	1.00	Units: uL	Run Reagent

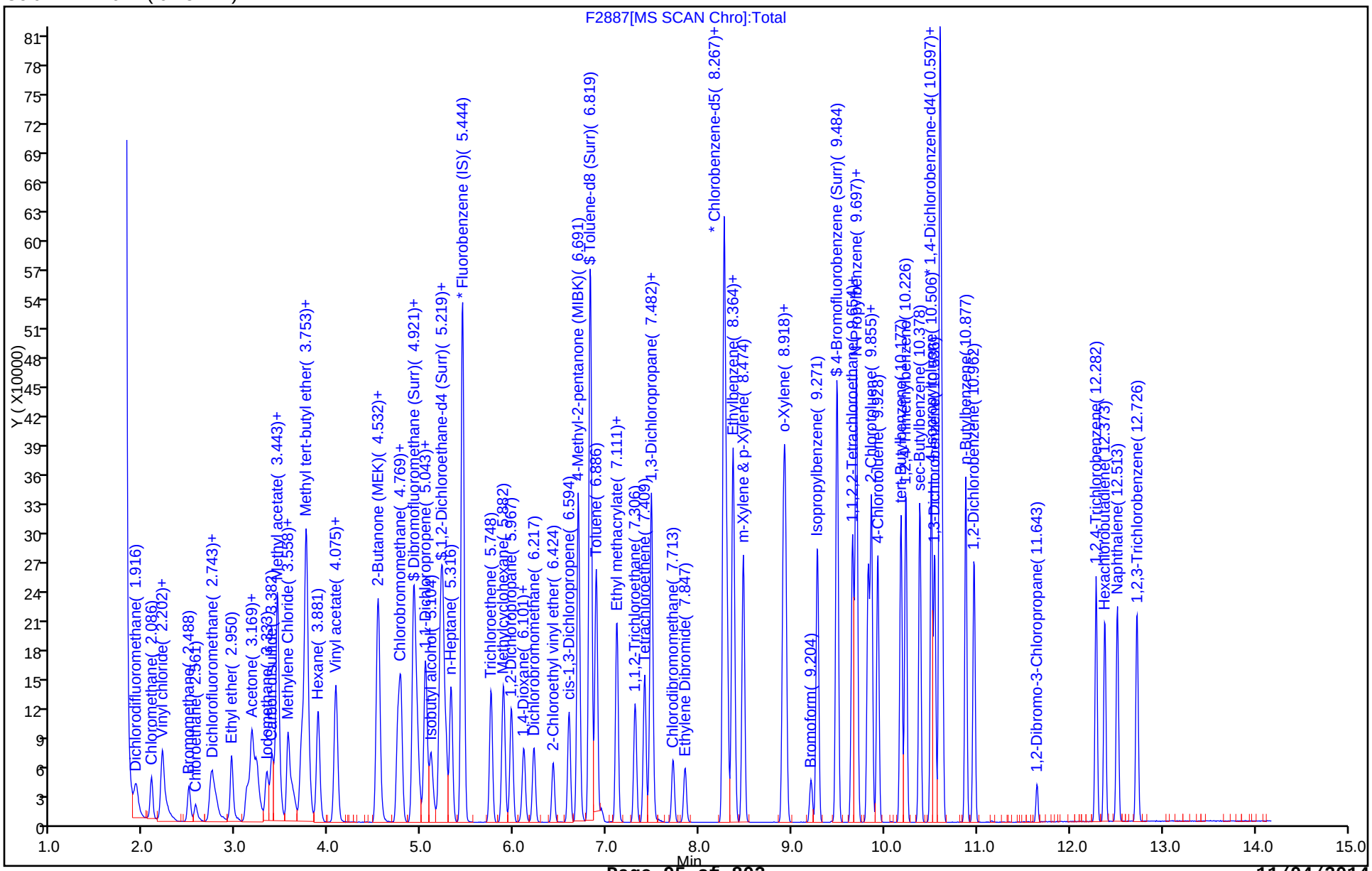
Report Date: 11-Oct-2014 10:42:08 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973F\20141010-36203.b\F2887.D

Injection Date:	10-Oct-2014 15:00:30	Instrument ID:	HP5973F	Operator ID:	NMD
Lims ID:	IC 4			Worklist Smp#:	7
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



Manual Integration/User Assign Peak Report

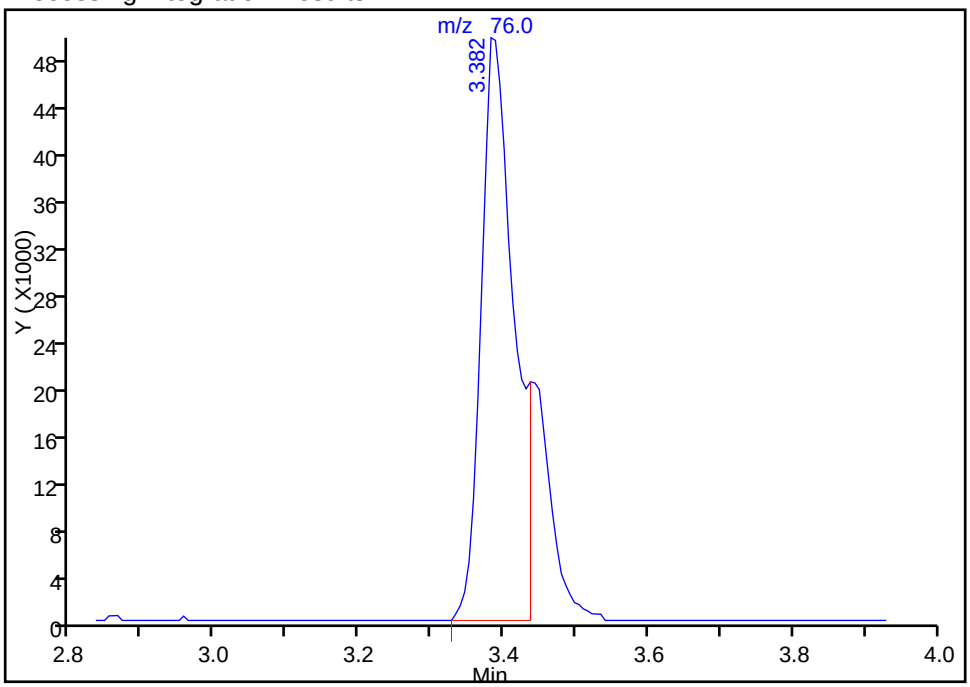
TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973F\20141010-36203.b\F2887.D
Injection Date: 10-Oct-2014 15:00:30 Instrument ID: HP5973F
Lims ID: IC 4
Client ID:
Operator ID: NMD ALS Bottle#: 16 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: F-8260 SOIL Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

26 Carbon disulfide, CAS: 75-15-0

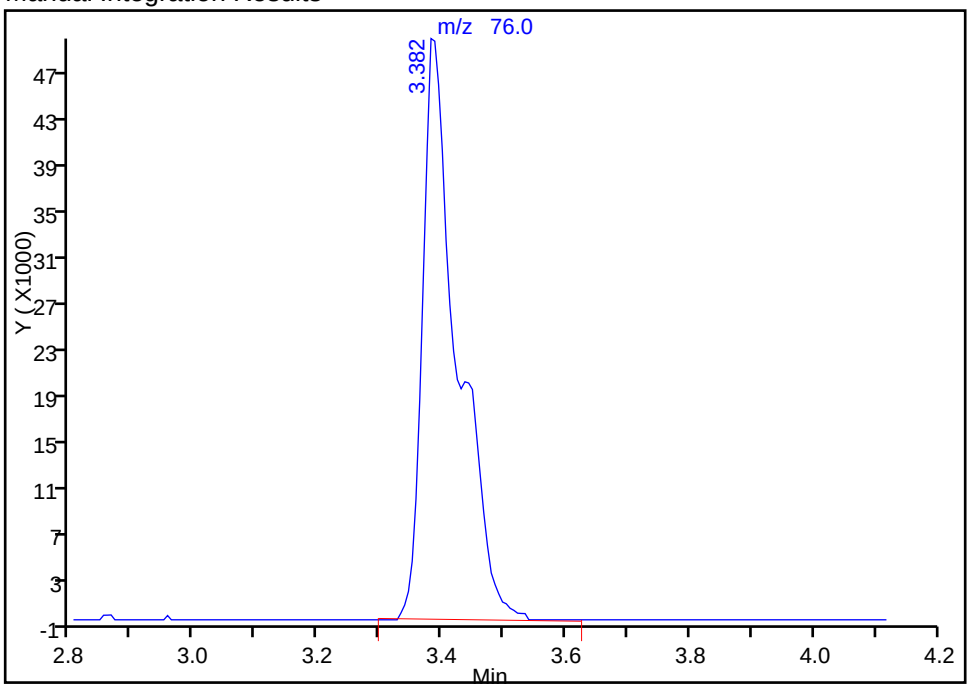
Processing Integration Results

RT: 3.38
Response: 158377
Amount: 13.726325



Manual Integration Results

RT: 3.38
Response: 194671
Amount: 16.501127



Reviewer: diasn, 11-Oct-2014 10:33:31
Audit Action: Manually Integrated
Audit Reason: Split Peak

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973F\20141010-36203.b\F2888.D
Lims ID: ICIS 5
Client ID:
Sample Type: ICIS Calib Level: 5
Inject. Date: 10-Oct-2014 15:25:30 ALS Bottle#: 17 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: ICIS 5
Misc. Info.: 480-0036203-008480-0036203-008
Operator ID: NMD Instrument ID: HP5973F
Sublist: chrom-F-8260 SOIL*sub27

Method: \\Bufchrom\ChromData\HP5973F\20141010-36203.b\F-8260 SOIL.m
Limit Group: MV - 8260C ICAL
Last Update: 11-Oct-2014 10:42:14 Calib Date: 10-Oct-2014 16:15:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5973F\20141010-36203.b\F2890.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK007

First Level Reviewer: diasn Date: 11-Oct-2014 10:42:14

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
* 153 Fluorobenzene (IS)	70	5.444	5.444	0.000	99	130873	50.0	50.0	
* 2 Chlorobenzene-d5	82	8.267	8.267	0.000	85	251407	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.597	10.597	0.000	94	248875	50.0	50.0	
$ 154 Dibromofluoromethane (Surr	113	4.915	4.915	0.000	94	125778	50.0	50.2	
$ 4 1,2-Dichloroethane-d4 (Sur	67	5.201	5.201	0.000	0	75844	50.0	48.9	
$ 5 Toluene-d8 (Surr)	98	6.825	6.825	0.000	92	517340	50.0	49.8	
$ 6 4-Bromofluorobenzene (Surr	174	9.490	9.490	0.000	93	175739	50.0	49.9	
10 Dichlorodifluoromethane	85	1.922	1.922	0.000	100	190358	50.0	54.1	
12 Chloromethane	50	2.098	2.098	0.000	100	160117	50.0	52.2	
13 Vinyl chloride	62	2.202	2.202	0.000	99	154810	50.0	54.2	
151 Butadiene	54	2.220	2.220	0.000	91	130666	50.0	56.0	
14 Bromomethane	94	2.500	2.500	0.000	92	81359	50.0	52.7	
15 Chloroethane	64	2.567	2.567	0.000	99	67811	50.0	54.2	
16 Dichlorofluoromethane	67	2.737	2.737	0.000	98	194515	50.0	53.7	
17 Trichlorofluoromethane	101	2.774	2.774	0.000	99	188586	50.0	55.3	
18 Ethyl ether	59	2.956	2.956	0.000	88	146370	50.0	52.8	
20 Acrolein	56	3.114	3.114	0.000	99	93186	250.0	261.1	
21 1,1,2-Trichloro-1,2,2-trif	101	3.163	3.163	0.000	94	151073	50.0	53.8	
22 1,1-Dichloroethene	96	3.175	3.175	0.000	98	175735	50.0	55.7	
23 Acetone	43	3.224	3.224	0.000	100	252060	250.0	251.3	
25 Iodomethane	142	3.339	3.339	0.000	98	296419	50.0	52.6	
26 Carbon disulfide	76	3.394	3.394	0.000	99	688808	50.0	57.6	
28 3-Chloro-1-propene	41	3.449	3.449	0.000	92	269715	50.0	53.8	
27 Methyl acetate	43	3.449	3.449	0.000	97	736803	250.0	260.6	
30 Methylene Chloride	84	3.564	3.564	0.000	87	189912	50.0	50.0	
31 2-Methyl-2-propanol	59	3.613	3.613	0.000	99	179071	500.0	487.7	
32 Methyl tert-butyl ether	73	3.717	3.717	0.000	93	509532	50.0	51.5	
34 trans-1,2-Dichloroethene	96	3.753	3.753	0.000	98	194560	50.0	54.6	
33 Acrylonitrile	53	3.765	3.765	0.000	100	655636	500.0	522.9	
35 Hexane	57	3.887	3.887	0.000	91	277716	50.0	51.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
37 Vinyl acetate	43	4.069	4.069	0.000	97	444571	100.0	105.9	
39 1,1-Dichloroethane	63	4.088	4.088	0.000	96	313460	50.0	53.2	
43 2-Butanone (MEK)	43	4.526	4.526	0.000	97	417939	250.0	261.6	
44 2,2-Dichloropropane	77	4.532	4.532	0.000	58	209560	50.0	56.4	
45 cis-1,2-Dichloroethene	96	4.538	4.538	0.000	80	203037	50.0	53.0	
48 Chlorobromomethane	128	4.745	4.745	0.000	93	95360	50.0	52.4	
49 Tetrahydrofuran	42	4.763	4.763	0.000	84	111293	100.0	104.9	
50 Chloroform	83	4.781	4.781	0.000	94	307699	50.0	52.1	
51 1,1,1-Trichloroethane	97	4.921	4.921	0.000	98	242210	50.0	56.0	
52 Cyclohexane	56	4.952	4.952	0.000	86	272036	50.0	54.2	
54 1,1-Dichloropropene	75	5.043	5.043	0.000	98	239888	50.0	54.6	
55 Carbon tetrachloride	117	5.049	5.049	0.000	98	210818	50.0	57.4	
53 Isobutyl alcohol	43	5.104	5.104	0.000	93	216458	1250.0	1375.9	
57 Benzene	78	5.231	5.231	0.000	95	763052	50.0	52.4	
58 1,2-Dichloroethane	62	5.268	5.268	0.000	97	219929	50.0	50.6	
59 n-Heptane	43	5.323	5.323	0.000	89	275309	50.0	54.3	
62 Trichloroethene	95	5.755	5.755	0.000	98	186437	50.0	53.4	
64 Methylcyclohexane	83	5.888	5.888	0.000	86	311387	50.0	55.4	
65 1,2-Dichloropropane	63	5.974	5.974	0.000	96	170945	50.0	52.6	
66 1,4-Dioxane	88	6.077	6.077	0.000	92	38337	1000.0	972.7	
67 Dibromomethane	93	6.107	6.107	0.000	94	104246	50.0	52.6	
68 Dichlorobromomethane	83	6.217	6.217	0.000	99	216732	50.0	55.4	
69 2-Chloroethyl vinyl ether	63	6.424	6.424	0.000	92	109298	50.0	53.4	
72 cis-1,3-Dichloropropene	75	6.594	6.594	0.000	97	275352	50.0	55.4	
73 4-Methyl-2-pentanone (MIBK	43	6.691	6.691	0.000	95	829535	250.0	264.2	
74 Toluene	92	6.886	6.886	0.000	99	473457	50.0	51.9	
75 Ethyl methacrylate	69	7.105	7.105	0.000	86	234874	50.0	53.2	
77 trans-1,3-Dichloropropene	75	7.111	7.111	0.000	96	233925	50.0	55.7	
79 1,1,2-Trichloroethane	83	7.306	7.306	0.000	91	128219	50.0	52.5	
81 Tetrachloroethene	166	7.409	7.409	0.000	99	205099	50.0	53.5	
82 1,3-Dichloropropane	76	7.476	7.476	0.000	97	269654	50.0	51.9	
80 2-Hexanone	43	7.482	7.482	0.000	95	602244	250.0	268.7	
83 Chlorodibromomethane	129	7.713	7.713	0.000	89	154695	50.0	47.9	
84 Ethylene Dibromide	107	7.847	7.847	0.000	98	155492	50.0	53.2	
87 Chlorobenzene	112	8.297	8.297	0.000	95	495772	50.0	51.7	
88 Ethylbenzene	91	8.358	8.358	0.000	98	863414	50.0	53.3	
89 1,1,1,2-Tetrachloroethane	131	8.377	8.377	0.000	95	161730	50.0	55.0	
90 m-Xylene & p-Xylene	106	8.474	8.474	0.000	100	338439	50.0	52.8	
91 o-Xylene	106	8.906	8.906	0.000	96	322799	50.0	53.9	
92 Styrene	104	8.930	8.930	0.000	94	557791	50.0	55.2	
95 Bromoform	173	9.204	9.204	0.000	98	99514	50.0	45.7	
94 Isopropylbenzene	105	9.277	9.277	0.000	95	835386	50.0	54.4	
97 1,1,2,2-Tetrachloroethane	83	9.648	9.648	0.000	96	204270	50.0	53.4	
101 Bromobenzene	156	9.654	9.654	0.000	91	218699	50.0	51.8	
98 trans-1,4-Dichloro-2-buten	53	9.691	9.691	0.000	63	57331	50.0	54.3	
99 N-Propylbenzene	91	9.691	9.691	0.000	99	1009102	50.0	54.2	
100 1,2,3-Trichloropropane	110	9.703	9.703	0.000	83	62541	50.0	51.6	
103 2-Chlorotoluene	126	9.824	9.824	0.000	97	200834	50.0	53.3	
102 1,3,5-Trimethylbenzene	105	9.855	9.855	0.000	94	703350	50.0	54.1	
105 4-Chlorotoluene	126	9.928	9.928	0.000	97	206850	50.0	52.4	
106 tert-Butylbenzene	134	10.177	10.177	0.000	92	159588	50.0	54.5	
107 1,2,4-Trimethylbenzene	105	10.226	10.226	0.000	96	721313	50.0	53.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
109 sec-Butylbenzene	105	10.378	10.378	0.000	94	904056	50.0	54.9	
110 4-Isopropyltoluene	119	10.506	10.506	0.000	97	795368	50.0	55.3	
111 1,3-Dichlorobenzene	146	10.542	10.542	0.000	98	416344	50.0	51.9	
113 1,4-Dichlorobenzene	146	10.621	10.621	0.000	95	421181	50.0	51.6	
115 n-Butylbenzene	91	10.877	10.877	0.000	97	709657	50.0	55.5	
116 1,2-Dichlorobenzene	146	10.968	10.968	0.000	98	391520	50.0	51.4	
117 1,2-Dibromo-3-Chloropropan	75	11.643	11.643	0.000	88	34835	50.0	46.9	
119 1,2,4-Trichlorobenzene	180	12.282	12.282	0.000	94	274907	50.0	52.8	
120 Hexachlorobutadiene	225	12.380	12.380	0.000	95	171264	50.0	53.7	
121 Naphthalene	128	12.513	12.513	0.000	97	654532	50.0	53.6	
122 1,2,3-Trichlorobenzene	180	12.726	12.726	0.000	96	256622	50.0	52.4	
S 125 1,2-Dichloroethene, Total	1				0			107.7	
S 126 1,3-Dichloropropene, Total	1				0			111.1	
S 123 Total BTEX	1				0			264.2	
S 124 Xylenes, Total	1				0			106.6	

Reagents:

8260 CORP mix_00024	Amount Added:	25.00	Units: uL	
GAS CORP mix_00050	Amount Added:	25.00	Units: uL	
F 8260 SURR_00110	Amount Added:	1.00	Units: uL	Run Reagent
F 8260 IS_00276	Amount Added:	1.00	Units: uL	Run Reagent

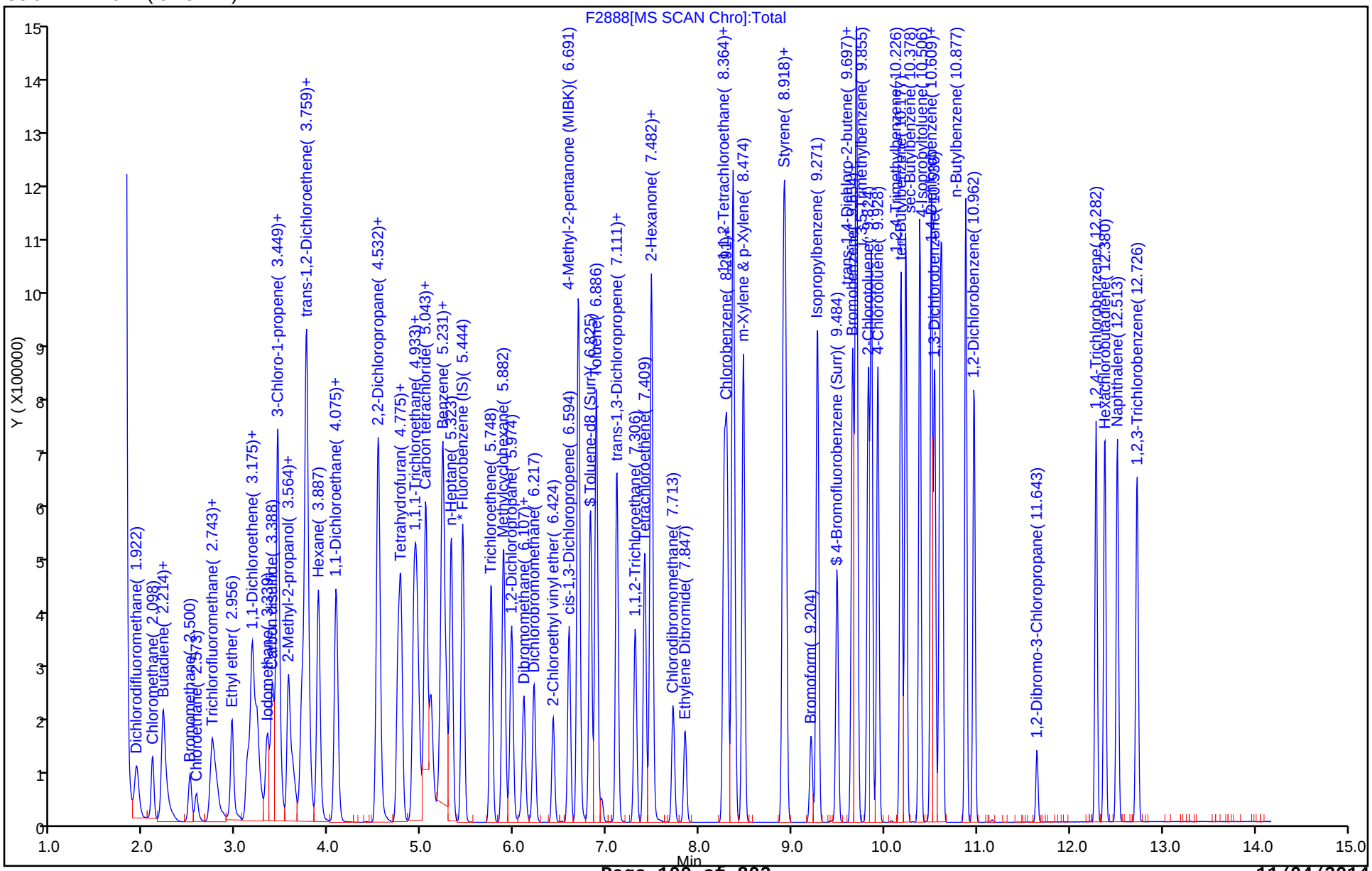
Report Date: 11-Oct-2014 10:42:14 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973F\20141010-36203.b\F2888.D

Injection Date:	10-Oct-2014 15:25:30	Instrument ID:	HP5973F	Operator ID:	NMD
Lims ID:	ICIS 5			Worklist Smp#:	8
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	17
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973F\20141010-36203.b\F2889.D
Lims ID: IC 6
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 10-Oct-2014 15:50:30 ALS Bottle#: 18 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 6
Misc. Info.: 480-0036203-009480-0036203-009
Operator ID: NMD Instrument ID: HP5973F
Sublist: chrom-F-8260 SOIL*sub27

Method: \\Bufchrom\ChromData\HP5973F\20141010-36203.b\F-8260 SOIL.m
Limit Group: MV - 8260C ICAL
Last Update: 11-Oct-2014 10:42:18 Calib Date: 10-Oct-2014 16:15:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5973F\20141010-36203.b\F2890.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK007

First Level Reviewer: diasn Date: 11-Oct-2014 10:42:18

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
* 153 Fluorobenzene (IS)	70	5.444	5.444	0.000	99	135795	50.0	50.0	
* 2 Chlorobenzene-d5	82	8.267	8.267	0.000	84	262647	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.597	10.597	0.000	94	261830	50.0	50.0	
$ 154 Dibromofluoromethane (Surr	113	4.915	4.915	0.000	93	130892	50.0	50.3	
$ 4 1,2-Dichloroethane-d4 (Sur	67	5.201	5.201	0.000	0	80497	50.0	50.0	
$ 5 Toluene-d8 (Surr)	98	6.825	6.825	0.000	92	537842	50.0	49.5	
$ 6 4-Bromofluorobenzene (Surr	174	9.490	9.490	0.000	93	184053	50.0	50.1	
10 Dichlorodifluoromethane	85	1.928	1.922	0.006	100	354368	100.0	97.0	
12 Chloromethane	50	2.098	2.098	0.000	100	302490	100.0	95.1	
13 Vinyl chloride	62	2.208	2.202	0.006	99	295021	100.0	99.5	
151 Butadiene	54	2.220	2.220	0.000	90	243220	100.0	100.5	
14 Bromomethane	94	2.500	2.500	0.000	91	149078	100.0	93.0	
15 Chloroethane	64	2.573	2.567	0.006	100	126356	100.0	97.2	
16 Dichlorofluoromethane	67	2.737	2.737	0.000	98	371481	100.0	98.8	
17 Trichlorofluoromethane	101	2.774	2.774	0.000	99	357663	100.0	101.1	
18 Ethyl ether	59	2.956	2.956	0.000	88	300010	100.0	104.4	
20 Acrolein	56	3.114	3.114	0.000	99	188344	500.0	508.7	
21 1,1,2-Trichloro-1,2,2-trif	101	3.163	3.163	0.000	94	300385	100.0	103.1	
22 1,1-Dichloroethene	96	3.181	3.175	0.006	98	344699	100.0	105.2	
23 Acetone	43	3.224	3.224	0.000	100	504364	500.0	484.7	
25 Iodomethane	142	3.339	3.339	0.000	98	585392	100.0	100.1	
26 Carbon disulfide	76	3.394	3.394	0.000	98	1370769	100.0	110.5	
28 3-Chloro-1-propene	41	3.449	3.449	0.000	88	531831	100.0	102.2	
27 Methyl acetate	43	3.443	3.449	-0.006	97	1446019	500.0	492.9	
30 Methylene Chloride	84	3.565	3.564	0.001	86	382143	100.0	97.0	
31 2-Methyl-2-propanol	59	3.613	3.613	0.000	100	381914	1000.0	1002.4	
32 Methyl tert-butyl ether	73	3.717	3.717	0.000	93	1078121	100.0	105.0	
34 trans-1,2-Dichloroethene	96	3.753	3.753	0.000	98	377477	100.0	102.1	
33 Acrylonitrile	53	3.765	3.765	0.000	100	1301910	1000.0	1000.8	
35 Hexane	57	3.887	3.887	0.000	91	551568	100.0	99.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
37 Vinyl acetate	43	4.069	4.069	0.000	97	919267	200.0	211.1	
39 1,1-Dichloroethane	63	4.082	4.088	-0.006	96	619642	100.0	101.3	
43 2-Butanone (MEK)	43	4.526	4.526	0.000	98	835065	500.0	503.7	
44 2,2-Dichloropropane	77	4.526	4.532	-0.006	89	412177	100.0	106.8	
45 cis-1,2-Dichloroethene	96	4.538	4.538	0.000	81	404609	100.0	101.9	
48 Chlorobromomethane	128	4.745	4.745	0.000	89	194356	100.0	102.8	
49 Tetrahydrofuran	42	4.763	4.763	0.000	85	221948	200.0	201.7	
50 Chloroform	83	4.781	4.781	0.000	94	615863	100.0	100.6	
51 1,1,1-Trichloroethane	97	4.921	4.921	0.000	98	478301	100.0	106.6	
52 Cyclohexane	56	4.952	4.952	0.000	86	524007	100.0	100.6	
54 1,1-Dichloropropene	75	5.043	5.043	0.000	98	471899	100.0	103.5	
55 Carbon tetrachloride	117	5.055	5.049	0.006	98	424181	100.0	111.3	
53 Isobutyl alcohol	43	5.104	5.104	0.000	94	455824	2500.0	2792.5	
57 Benzene	78	5.231	5.231	0.000	95	1505985	100.0	99.6	
58 1,2-Dichloroethane	62	5.268	5.268	0.000	97	446759	100.0	99.1	
59 n-Heptane	43	5.317	5.323	-0.006	89	544290	100.0	103.5	
62 Trichloroethene	95	5.755	5.755	0.000	98	371994	100.0	102.7	
64 Methylcyclohexane	83	5.888	5.888	0.000	86	602296	100.0	103.2	
65 1,2-Dichloropropane	63	5.974	5.974	0.000	96	351378	100.0	104.1	
66 1,4-Dioxane	88	6.077	6.077	0.000	91	80585	2000.0	1898.3	
67 Dibromomethane	93	6.107	6.107	0.000	95	217312	100.0	105.6	
68 Dichlorobromomethane	83	6.217	6.217	0.000	99	460326	100.0	113.3	
69 2-Chloroethyl vinyl ether	63	6.418	6.424	-0.006	92	231135	100.0	108.8	
72 cis-1,3-Dichloropropene	75	6.594	6.594	0.000	97	579145	100.0	112.4	
73 4-Methyl-2-pentanone (MIBK	43	6.691	6.691	0.000	94	1659489	500.0	505.9	
74 Toluene	92	6.886	6.886	0.000	99	940142	100.0	98.6	
75 Ethyl methacrylate	69	7.105	7.105	0.000	87	502225	100.0	108.9	
77 trans-1,3-Dichloropropene	75	7.111	7.111	0.000	96	493717	100.0	112.5	
79 1,1,2-Trichloroethane	83	7.306	7.306	0.000	90	265744	100.0	104.2	
81 Tetrachloroethene	166	7.409	7.409	0.000	99	404373	100.0	100.9	
82 1,3-Dichloropropane	76	7.470	7.476	-0.006	98	551634	100.0	101.6	
80 2-Hexanone	43	7.482	7.482	0.000	94	1207064	500.0	515.5	
83 Chlorodibromomethane	129	7.714	7.713	0.001	90	341558	100.0	99.3	
84 Ethylene Dibromide	107	7.847	7.847	0.000	98	325254	100.0	106.5	
87 Chlorobenzene	112	8.298	8.297	0.001	96	999590	100.0	99.7	
88 Ethylbenzene	91	8.358	8.358	0.000	98	1704358	100.0	100.7	
89 1,1,1,2-Tetrachloroethane	131	8.377	8.377	0.000	96	337517	100.0	109.8	
90 m-Xylene & p-Xylene	106	8.474	8.474	0.000	100	680522	100.0	101.5	
91 o-Xylene	106	8.906	8.906	0.000	96	649930	100.0	103.8	
92 Styrene	104	8.930	8.930	0.000	94	1144930	100.0	108.4	
95 Bromoform	173	9.204	9.204	0.000	98	228147	100.0	97.7	
94 Isopropylbenzene	105	9.277	9.277	0.000	96	1664764	100.0	103.1	
97 1,1,2,2-Tetrachloroethane	83	9.648	9.648	0.000	95	424953	100.0	105.5	
101 Bromobenzene	156	9.654	9.654	0.000	90	447046	100.0	100.7	
98 trans-1,4-Dichloro-2-buten	53	9.691	9.691	0.000	65	119936	100.0	107.9	
99 N-Propylbenzene	91	9.697	9.691	0.006	99	1988542	100.0	101.6	
100 1,2,3-Trichloropropane	110	9.703	9.703	0.000	81	129487	100.0	101.6	
103 2-Chlorotoluene	126	9.825	9.824	0.001	97	402621	100.0	101.5	
102 1,3,5-Trimethylbenzene	105	9.855	9.855	0.000	94	1406207	100.0	102.8	
105 4-Chlorotoluene	126	9.928	9.928	0.000	97	419853	100.0	101.2	
106 tert-Butylbenzene	134	10.177	10.177	0.000	92	323995	100.0	105.1	
107 1,2,4-Trimethylbenzene	105	10.226	10.226	0.000	96	1449766	100.0	103.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
109 sec-Butylbenzene	105	10.378	10.378	0.000	94	1794590	100.0	103.5	
110 4-Isopropyltoluene	119	10.506	10.506	0.000	96	1578685	100.0	104.3	
111 1,3-Dichlorobenzene	146	10.542	10.542	0.000	98	841035	100.0	99.7	
113 1,4-Dichlorobenzene	146	10.621	10.621	0.000	95	846648	100.0	98.6	
115 n-Butylbenzene	91	10.877	10.877	0.000	97	1422306	100.0	105.7	
116 1,2-Dichlorobenzene	146	10.968	10.968	0.000	98	807454	100.0	100.8	
117 1,2-Dibromo-3-Chloropropan	75	11.644	11.643	0.001	89	77801	100.0	97.5	
119 1,2,4-Trichlorobenzene	180	12.282	12.282	0.000	94	578812	100.0	105.7	
120 Hexachlorobutadiene	225	12.380	12.380	0.000	96	340757	100.0	101.5	
121 Naphthalene	128	12.513	12.513	0.000	97	1396106	100.0	108.8	
122 1,2,3-Trichlorobenzene	180	12.726	12.726	0.000	96	545251	100.0	105.9	
S 125 1,2-Dichloroethene, Total	1				0			204.0	
S 126 1,3-Dichloropropene, Total	1				0			224.9	
S 123 Total BTEX	1				0			504.3	
S 124 Xylenes, Total	1				0			205.4	

Reagents:

8260 CORP mix_00024	Amount Added: 50.00	Units: uL		
GAS CORP mix_00050	Amount Added: 50.00	Units: uL		
F 8260 SURR_00110	Amount Added: 1.00	Units: uL	Run Reagent	
F 8260 IS_00276	Amount Added: 1.00	Units: uL	Run Reagent	

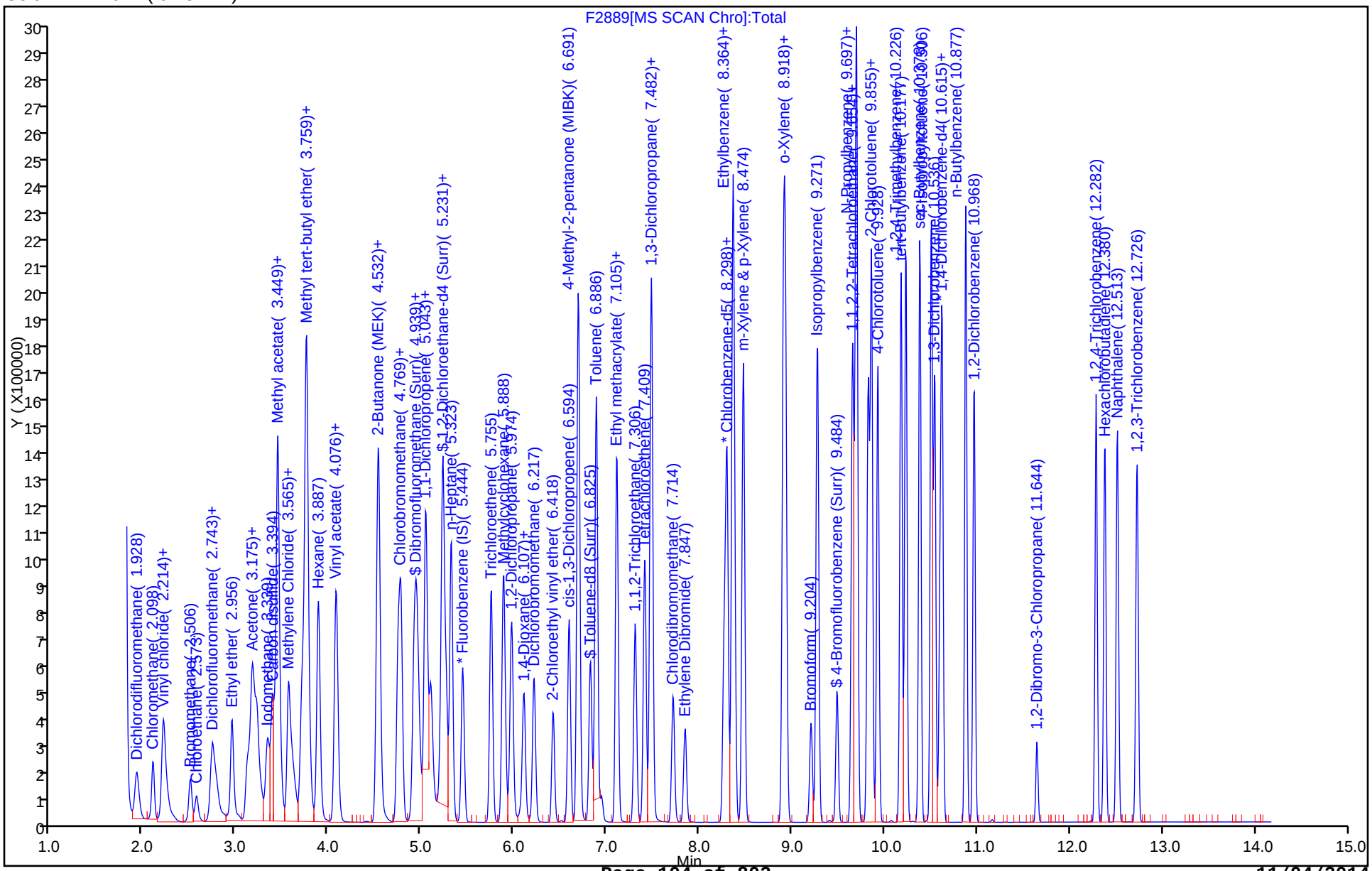
Report Date: 11-Oct-2014 10:42:19 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973F\20141010-36203.b\F2889.D

Injection Date:	10-Oct-2014 15:50:30	Instrument ID:	HP5973F	Operator ID:	NMD
Lims ID:	IC 6			Worklist Smp#:	9
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	18
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973F\20141010-36203.b\F2890.D
Lims ID: IC 7
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 10-Oct-2014 16:15:30 ALS Bottle#: 19 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 7
Misc. Info.: 480-0036203-010480-0036203-010
Operator ID: NMD Instrument ID: HP5973F
Sublist: chrom-F-8260 SOIL*sub27

Method: \\Bufchrom\ChromData\HP5973F\20141010-36203.b\F-8260 SOIL.m
Limit Group: MV - 8260C ICAL
Last Update: 11-Oct-2014 10:42:24 Calib Date: 10-Oct-2014 16:15:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5973F\20141010-36203.b\F2890.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK007

First Level Reviewer: diasn Date: 11-Oct-2014 10:42:24

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
* 153 Fluorobenzene (IS)	70	5.444	5.444	0.000	99	140474	50.0	50.0	
* 2 Chlorobenzene-d5	82	8.267	8.267	0.000	85	272463	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.597	10.597	0.000	95	265905	50.0	50.0	
$ 154 Dibromofluoromethane (Surr	113	4.915	4.915	0.000	94	135719	50.0	50.4	
$ 4 1,2-Dichloroethane-d4 (Sur	67	5.207	5.201	0.006	0	83734	50.0	50.3	
$ 5 Toluene-d8 (Surr)	98	6.825	6.825	0.000	92	560338	50.0	49.7	
$ 6 4-Bromofluorobenzene (Surr	174	9.490	9.490	0.000	92	190831	50.0	50.0	
10 Dichlorodifluoromethane	85	1.928	1.922	0.006	100	733791	200.0	194.1	
12 Chloromethane	50	2.110	2.098	0.012	100	594738	200.0	180.7	
13 Vinyl chloride	62	2.214	2.202	0.012	99	596230	200.0	194.4	
151 Butadiene	54	2.232	2.220	0.012	90	507126	200.0	202.5	
14 Bromomethane	94	2.512	2.500	0.012	91	297503	200.0	179.5	
15 Chloroethane	64	2.579	2.567	0.012	99	248825	200.0	185.1	
16 Dichlorofluoromethane	67	2.743	2.737	0.006	98	737989	200.0	189.8	
17 Trichlorofluoromethane	101	2.780	2.774	0.006	99	708750	200.0	193.6	
18 Ethyl ether	59	2.956	2.956	0.000	88	561739	200.0	188.9	
20 Acrolein	56	3.114	3.114	0.000	99	385766	1000.0	1007.2	
21 1,1,2-Trichloro-1,2,2-trif	101	3.163	3.163	0.000	95	627159	200.0	208.1	
22 1,1-Dichloroethene	96	3.193	3.175	0.018	97	706406	200.0	208.4	
23 Acetone	43	3.224	3.224	0.000	99	1062302	1000.0	986.8	
25 Iodomethane	142	3.345	3.339	0.006	98	1191218	200.0	197.0	
26 Carbon disulfide	76	3.400	3.394	0.006	99	2819818	200.0	219.8	
28 3-Chloro-1-propene	41	3.455	3.449	0.006	83	1058746	200.0	196.6	
27 Methyl acetate	43	3.443	3.449	-0.006	97	2921966	1000.0	962.8	
30 Methylene Chloride	84	3.570	3.564	0.006	86	773243	200.0	189.8	
31 2-Methyl-2-propanol	59	3.607	3.613	-0.006	99	894406	2000.0	2269.3	
32 Methyl tert-butyl ether	73	3.716	3.717	-0.001	93	2146602	200.0	202.0	
34 trans-1,2-Dichloroethene	96	3.753	3.753	0.000	98	777296	200.0	203.3	
33 Acrylonitrile	53	3.765	3.765	0.000	100	2682930	2000.0	1993.7	
35 Hexane	57	3.887	3.887	0.000	90	1139931	200.0	198.6	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
37 Vinyl acetate	43	4.069	4.069	0.000	97	1868690	400.0	414.8	
39 1,1-Dichloroethane	63	4.088	4.088	0.000	96	1279529	200.0	202.2	
43 2-Butanone (MEK)	43	4.526	4.526	0.000	98	1769516	1000.0	1031.9	
44 2,2-Dichloropropane	77	4.532	4.532	0.000	86	838459	200.0	210.1	
45 cis-1,2-Dichloroethene	96	4.538	4.538	0.000	81	834279	200.0	203.0	
48 Chlorobromomethane	128	4.745	4.745	0.000	89	404446	200.0	206.9	
49 Tetrahydrofuran	42	4.763	4.763	0.000	85	479352	400.0	421.0	
50 Chloroform	83	4.781	4.781	0.000	94	1266822	200.0	200.0	
51 1,1,1-Trichloroethane	97	4.927	4.921	0.006	98	990097	200.0	213.3	
52 Cyclohexane	56	4.957	4.952	0.005	87	1081472	200.0	200.7	
54 1,1-Dichloropropene	75	5.043	5.043	0.000	97	987631	200.0	209.5	
55 Carbon tetrachloride	117	5.055	5.049	0.006	97	906930	200.0	230.1	
53 Isobutyl alcohol	43	5.097	5.104	-0.007	95	1038115	5000.0	6147.9	
57 Benzene	78	5.231	5.231	0.000	95	3085685	200.0	197.3	
58 1,2-Dichloroethane	62	5.268	5.268	0.000	97	922020	200.0	197.6	
59 n-Heptane	43	5.322	5.323	-0.001	89	1131774	200.0	208.0	
62 Trichloroethene	95	5.754	5.755	-0.001	98	786029	200.0	209.8	
64 Methylcyclohexane	83	5.888	5.888	0.000	86	1287494	200.0	213.3	
65 1,2-Dichloropropane	63	5.973	5.974	-0.001	96	737770	200.0	211.3	
66 1,4-Dioxane	88	6.077	6.077	0.000	91	184840	4000.0	4126.8	
67 Dibromomethane	93	6.107	6.107	0.000	95	454494	200.0	213.5	
68 Dichlorobromomethane	83	6.217	6.217	0.000	100	984944	200.0	234.4	
69 2-Chloroethyl vinyl ether	63	6.424	6.424	0.000	92	504480	200.0	229.6	
72 cis-1,3-Dichloropropene	75	6.594	6.594	0.000	97	1237656	200.0	232.1	
73 4-Methyl-2-pentanone (MIBK	43	6.691	6.691	0.000	94	3415364	1000.0	1003.7	
74 Toluene	92	6.886	6.886	0.000	99	1948852	200.0	197.1	
75 Ethyl methacrylate	69	7.105	7.105	0.000	91	1074151	200.0	224.6	
77 trans-1,3-Dichloropropene	75	7.111	7.111	0.000	97	1047707	200.0	230.1	
79 1,1,2-Trichloroethane	83	7.306	7.306	0.000	91	558883	200.0	211.2	
81 Tetrachloroethene	166	7.409	7.409	0.000	98	842799	200.0	202.7	
82 1,3-Dichloropropane	76	7.470	7.476	-0.006	98	1134052	200.0	201.4	
80 2-Hexanone	43	7.482	7.482	0.000	92	2506017	1000.0	1031.6	
83 Chlorodibromomethane	129	7.713	7.713	0.000	90	744401	200.0	206.8	
84 Ethylene Dibromide	107	7.847	7.847	0.000	98	693450	200.0	218.9	
87 Chlorobenzene	112	8.297	8.297	0.000	95	2060709	200.0	198.2	
88 Ethylbenzene	91	8.358	8.358	0.000	97	3462524	200.0	197.2	
89 1,1,1,2-Tetrachloroethane	131	8.376	8.377	-0.001	96	707797	200.0	222.0	
90 m-Xylene & p-Xylene	106	8.474	8.474	0.000	99	1415710	200.0	203.6	
91 o-Xylene	106	8.906	8.906	0.000	96	1337198	200.0	205.9	
92 Styrene	104	8.930	8.930	0.000	94	2351061	200.0	214.5	
95 Bromoform	173	9.204	9.204	0.000	98	520033	200.0	211.9	
94 Isopropylbenzene	105	9.277	9.277	0.000	96	3399788	200.0	207.3	
97 1,1,2,2-Tetrachloroethane	83	9.648	9.648	0.000	96	884262	200.0	216.2	
101 Bromobenzene	156	9.660	9.654	0.006	89	926620	200.0	205.5	
98 trans-1,4-Dichloro-2-buten	53	9.690	9.691	-0.001	70	253018	200.0	224.2	
99 N-Propylbenzene	91	9.697	9.691	0.006	98	3939734	200.0	198.1	
100 1,2,3-Trichloropropane	110	9.703	9.703	0.000	82	263446	200.0	203.6	
103 2-Chlorotoluene	126	9.824	9.824	0.000	97	834091	200.0	207.1	
102 1,3,5-Trimethylbenzene	105	9.861	9.855	0.006	94	2853139	200.0	205.4	
105 4-Chlorotoluene	126	9.928	9.928	0.000	97	876192	200.0	207.9	
106 tert-Butylbenzene	134	10.177	10.177	0.000	92	672176	200.0	214.8	
107 1,2,4-Trimethylbenzene	105	10.226	10.226	0.000	96	2927554	200.0	204.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
109 sec-Butylbenzene	105	10.378	10.378	0.000	94	3617519	200.0	205.4	
110 4-Isopropyltoluene	119	10.506	10.506	0.000	96	3169027	200.0	206.2	
111 1,3-Dichlorobenzene	146	10.542	10.542	0.000	97	1713953	200.0	200.0	
113 1,4-Dichlorobenzene	146	10.621	10.621	0.000	95	1729895	200.0	198.3	
115 n-Butylbenzene	91	10.877	10.877	0.000	97	2892714	200.0	211.6	
116 1,2-Dichlorobenzene	146	10.968	10.968	0.000	98	1639628	200.0	201.5	
117 1,2-Dibromo-3-Chloropropan	75	11.643	11.643	0.000	89	172264	200.0	210.2	
119 1,2,4-Trichlorobenzene	180	12.282	12.282	0.000	94	1166196	200.0	209.7	
120 Hexachlorobutadiene	225	12.379	12.380	-0.001	96	696812	200.0	204.4	
121 Naphthalene	128	12.513	12.513	0.000	97	2842262	200.0	218.0	
122 1,2,3-Trichlorobenzene	180	12.726	12.726	0.000	96	1076004	200.0	205.7	
S 125 1,2-Dichloroethene, Total	1				0			406.3	
S 126 1,3-Dichloropropene, Total	1				0			462.2	
S 123 Total BTEX	1				0			1001.1	
S 124 Xylenes, Total	1				0			409.5	

Reagents:

8260 CORP mix_00024	Amount Added: 100.00	Units: uL	
GAS CORP mix_00050	Amount Added: 100.00	Units: uL	
F 8260 SURR_00110	Amount Added: 1.00	Units: uL	Run Reagent
F 8260 IS_00276	Amount Added: 1.00	Units: uL	Run Reagent

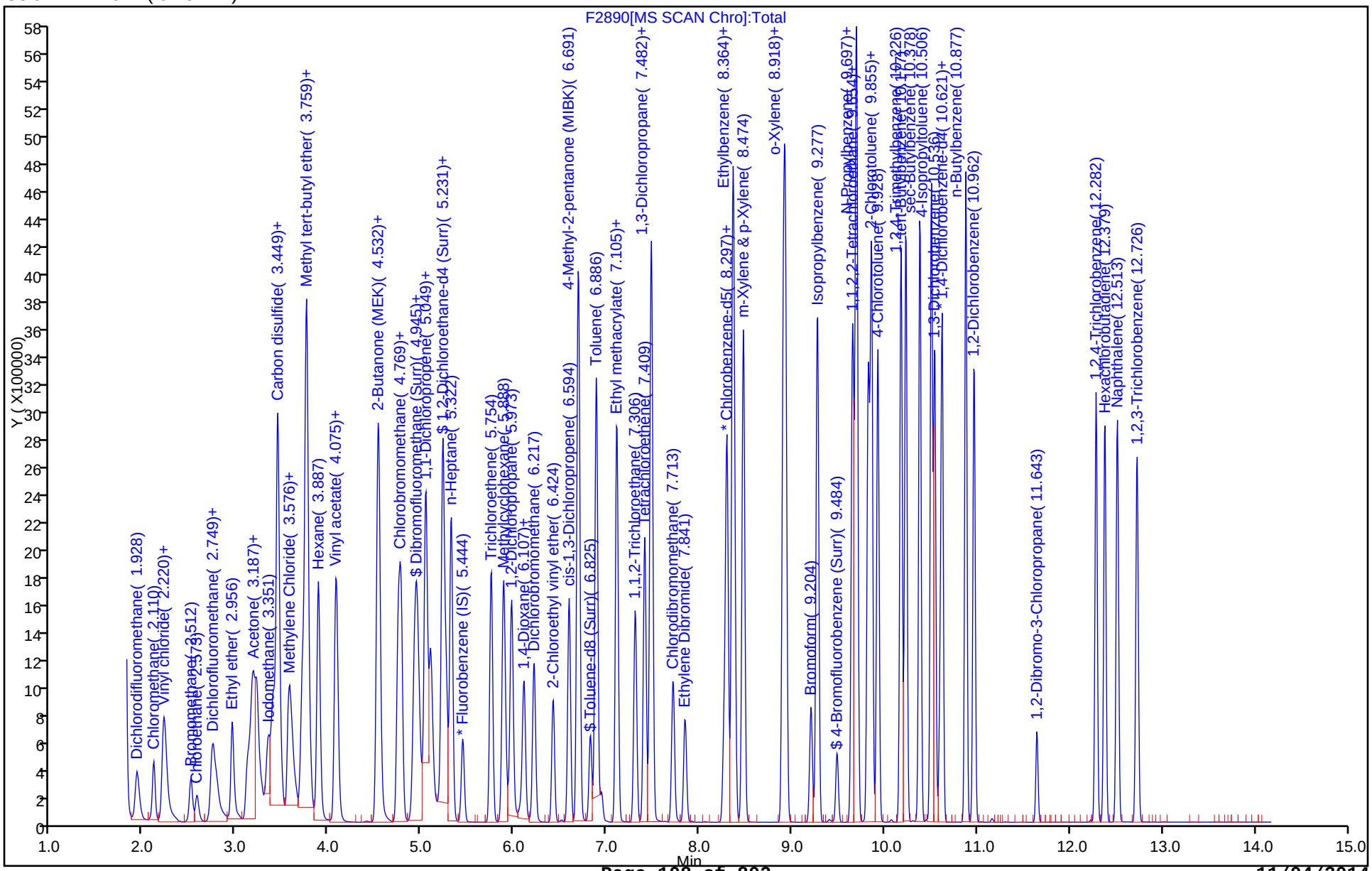
Report Date: 11-Oct-2014 10:42:25 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973F\20141010-36203.b\F2890.D

Injection Date:	10-Oct-2014 16:15:30	Instrument ID:	HP5973F	Operator ID:	NMD
Lims ID:	IC 7			Worklist Smp#:	10
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	19
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-70101-1

SDG No.:

Lab Sample ID: CCVIS 480-210136/4 Calibration Date: 10/27/2014 10:12

Instrument ID: HP5973F Calib Start Date: 10/10/2014 13:44

GC Column: ZB-624 (60) ID: 0.25(mm) Calib End Date: 10/10/2014 16:15

Lab File ID: F3354.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	1.345	1.688	0.1000	62.7	50.0	25.5	50.0
Chloromethane	Ave	1.171	0.998	0.1000	42.6	50.0	-14.8	20.0
Vinyl chloride	Ave	1.092	0.9946	0.1000	45.5	50.0	-8.9	20.0
Butadiene	Ave	0.8913	0.8216		46.1	50.0	-7.8	20.0
Bromomethane	Ave	0.5901	0.5642	0.1000	47.8	50.0	-4.4	50.0
Chloroethane	Ave	0.4784	0.4252	0.1000	44.4	50.0	-11.1	50.0
Dichlorofluoromethane	Ave	1.384	1.337		48.3	50.0	-3.4	20.0
Trichlorofluoromethane	Ave	1.303	1.367	0.1000	52.4	50.0	4.9	20.0
Ethyl ether	Ave	1.058	0.9626		45.5	50.0	-9.0	20.0
Acrolein	Ave	0.1363	0.1442		264	250	5.8	50.0
1,1,2-Trichloro-1,2,2-triflu oroethane	Ave	1.073	1.364	0.1000	63.6	50.0	27.2*	20.0
1,1-Dichloroethene	Ave	1.206	1.181	0.1000	49.0	50.0	-2.1	20.0
Acetone	Ave	0.3832	0.3990	0.1000	260	250	4.1	50.0
Iodomethane	Ave	2.152	2.342		54.4	50.0	8.8	20.0
Carbon disulfide	Ave	4.566	5.344	0.1000	58.5	50.0	17.1	20.0
Methyl acetate	Ave	1.080	1.148	0.1000	266	250	6.3	50.0
Allyl chloride	Ave	1.917	2.074		54.1	50.0	8.2	20.0
Methylene Chloride	Ave	1.450	1.475	0.1000	50.9	50.0	1.7	20.0
2-Methyl-2-propanol	Ave	0.1403	0.1645		586	500	17.3	50.0
Methyl tert-butyl ether	Ave	3.782	3.551	0.1000	47.0	50.0	-6.1	20.0
trans-1,2-Dichloroethene	Ave	1.361	1.494	0.1000	54.9	50.0	9.8	20.0
Acrylonitrile	Ave	0.4790	0.5145		537	500	7.4	20.0
Hexane	Ave	2.044	2.317		56.7	50.0	13.4	20.0
Vinyl acetate	Ave	1.604	1.726		108	100	7.7	20.0
1,1-Dichloroethane	Ave	2.252	2.396	0.2000	53.2	50.0	6.4	20.0
2,2-Dichloropropane	Ave	1.420	1.395		49.1	50.0	-1.8	20.0
2-Butanone (MEK)	Ave	0.6104	0.6576	0.1000	269	250	7.7	20.0
cis-1,2-Dichloroethene	Ave	1.463	1.580	0.1000	54.0	50.0	8.0	20.0
Chlorobromomethane	Ave	0.6959	0.7779		55.9	50.0	11.8	20.0
Tetrahydrofuran	Ave	0.4052	0.4399		109	100	8.5	20.0
Chloroform	Ave	2.254	2.329	0.2000	51.7	50.0	3.3	20.0
1,1,1-Trichloroethane	Ave	1.652	1.572	0.1000	47.6	50.0	-4.9	20.0
Cyclohexane	Ave	1.918	1.731	0.1000	45.1	50.0	-9.8	20.0
1,1-Dichloropropene	Ave	1.678	1.836		54.7	50.0	9.4	20.0
Carbon tetrachloride	Ave	1.403	1.520	0.1000	54.2	50.0	8.3	20.0
Isobutyl alcohol	Ave	0.0601	0.0752		1560	1250	25.1	50.0
Benzene	Ave	5.567	5.884	0.5000	52.8	50.0	5.7	20.0
1,2-Dichloroethane	Ave	1.661	1.678	0.1000	50.5	50.0	1.1	20.0
n-Heptane	Ave	1.936	2.190		56.6	50.0	13.1	20.0
Trichloroethene	Ave	1.334	1.470	0.2000	55.1	50.0	10.2	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-70101-1

SDG No.:

Lab Sample ID: CCVIS 480-210136/4 Calibration Date: 10/27/2014 10:12

Instrument ID: HP5973F Calib Start Date: 10/10/2014 13:44

GC Column: ZB-624 (60) ID: 0.25(mm) Calib End Date: 10/10/2014 16:15

Lab File ID: F3354.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methylcyclohexane	Ave	2.148	2.266	0.1000	52.7	50.0	5.5	20.0
1,2-Dichloropropane	Ave	1.243	1.377	0.1000	55.4	50.0	10.8	20.0
1,4-Dioxane	Lin1		0.0089		1130	1000	12.7	50.0
Dibromomethane	Ave	0.7577	0.8185	0.1000	54.0	50.0	8.0	20.0
Bromodichloromethane	Ave	1.495	1.722	0.2000	57.6	50.0	15.2	20.0
2-Chloroethyl vinyl ether	Ave	0.7820	0.9069		58.0	50.0	16.0	20.0
cis-1,3-Dichloropropene	Ave	1.898	2.246	0.2000	59.2	50.0	18.3	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.6244	0.6585	0.1000	264	250	5.5	20.0
Toluene	Ave	1.815	1.926	0.4000	53.1	50.0	6.1	20.0
Ethyl methacrylate	Ave	0.8775	0.9412		53.6	50.0	7.3	20.0
trans-1,3-Dichloropropene	Ave	0.8355	0.9438	0.1000	56.5	50.0	13.0	20.0
1,1,2-Trichloroethane	Ave	0.4857	0.5193	0.1000	53.5	50.0	6.9	20.0
Tetrachloroethene	Ave	0.7628	0.8711	0.2000	57.1	50.0	14.2	20.0
1,3-Dichloropropane	Ave	1.033	1.058		51.2	50.0	2.4	20.0
2-Hexanone	Ave	0.4458	0.4662	0.1000	261	250	4.6	20.0
Dibromochloromethane	Lin1		0.6721	0.1000	52.1	50.0	4.3	20.0
1,2-Dibromoethane	Ave	0.5813	0.6479		55.7	50.0	11.5	20.0
Chlorobenzene	Ave	1.908	2.097	0.5000	55.0	50.0	9.9	20.0
Ethylbenzene	Ave	3.223	3.485	0.1000	54.1	50.0	8.1	20.0
1,1,1,2-Tetrachloroethane	Ave	0.5852	0.6743		57.6	50.0	15.2	20.0
m,p-Xylene	Ave	1.276	1.441	0.1000	56.5	50.0	13.0	20.0
o-Xylene	Ave	1.192	1.353	0.3000	56.8	50.0	13.5	20.0
Styrene	Ave	2.011	2.321	0.3000	57.7	50.0	15.4	20.0
Bromoform	Lin1		0.4557	0.1000	52.3	50.0	4.6	50.0
Isopropylbenzene	Ave	3.083	3.354	0.1000	54.4	50.0	8.8	20.0
1,1,2,2-Tetrachloroethane	Ave	0.7690	0.8032	0.3000	52.2	50.0	4.5	20.0
Bromobenzene	Ave	0.8481	0.9002		53.1	50.0	6.2	20.0
N-Propylbenzene	Ave	3.739	3.942		52.7	50.0	5.4	20.0
trans-1,4-Dichloro-2-butene	Ave	0.2123	0.2276		53.6	50.0	7.2	50.0
1,2,3-Trichloropropane	Ave	0.2433	0.2419		49.7	50.0	-0.6	20.0
2-Chlorotoluene	Ave	0.7574	0.8100		53.5	50.0	7.0	20.0
1,3,5-Trimethylbenzene	Ave	2.612	2.805		53.7	50.0	7.4	20.0
4-Chlorotoluene	Ave	0.7924	0.8650		54.6	50.0	9.2	20.0
tert-Butylbenzene	Ave	0.5885	0.6539		55.6	50.0	11.1	20.0
1,2,4-Trimethylbenzene	Ave	2.688	2.910		54.1	50.0	8.2	20.0
sec-Butylbenzene	Ave	3.311	3.651		55.1	50.0	10.3	20.0
4-Isopropyltoluene	Ave	2.890	3.234		55.9	50.0	11.9	20.0
1,3-Dichlorobenzene	Ave	1.612	1.720	0.6000	53.4	50.0	6.7	20.0
1,4-Dichlorobenzene	Ave	1.640	1.737	0.5000	52.9	50.0	5.9	20.0
n-Butylbenzene	Ave	2.571	2.864		55.7	50.0	11.4	20.0
1,2-Dichlorobenzene	Ave	1.530	1.623	0.4000	53.0	50.0	6.0	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-70101-1

SDG No.:

Lab Sample ID: CCVIS 480-210136/4 Calibration Date: 10/27/2014 10:12

Instrument ID: HP5973F Calib Start Date: 10/10/2014 13:44

GC Column: ZB-624 (60) ID: 0.25(mm) Calib End Date: 10/10/2014 16:15

Lab File ID: F3354.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dibromo-3-Chloropropane	Lin1		0.1371	0.0500	46.0	50.0	-8.0	50.0
1,2,4-Trichlorobenzene	Ave	1.046	1.174	0.2000	56.1	50.0	12.3	20.0
Hexachlorobutadiene	Ave	0.6410	0.6930		54.1	50.0	8.1	20.0
Naphthalene	Ave	2.451	2.703		55.1	50.0	10.3	20.0
1,2,3-Trichlorobenzene	Ave	0.9835	1.071		54.4	50.0	8.9	20.0
Dibromofluoromethane (Surr)	Ave	0.9576	1.006		52.5	50.0	5.0	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.5923	0.6065		51.2	50.0	2.4	20.0
Toluene-d8 (Surr)	Ave	2.068	2.156		52.1	50.0	4.3	20.0
4-Bromofluorobenzene (Surr)	Ave	0.7000	0.7385		52.7	50.0	5.5	20.0

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973F\20141027-36738.b\F3354.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 27-Oct-2014 10:12:30 ALS Bottle#: 6 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: CCVIS
Misc. Info.: 480-0036738-004480-0036738-004
Operator ID: NMD Instrument ID: HP5973F
Sublist: chrom-F-8260 SOIL*sub27

Method: \\Bufchrom\ChromData\HP5973F\20141027-36738.b\F-8260 SOIL.m
Limit Group: MV - 8260C ICAL
Last Update: 27-Oct-2014 10:37:51 Calib Date: 10-Oct-2014 16:15:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5973F\20141010-36203.b\F2890.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK025

First Level Reviewer: diasn Date: 27-Oct-2014 10:37:51

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
* 153 Fluorobenzene (IS)	70	5.444	5.444	0.000	99	92371	50.0	50.0	
* 2 Chlorobenzene-d5	82	8.267	8.267	0.000	84	182745	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.597	10.597	0.000	93	188487	50.0	50.0	
$ 154 Dibromofluoromethane (Surr	113	4.915	4.915	0.000	94	92882	50.0	52.5	
$ 4 1,2-Dichloroethane-d4 (Sur	67	5.201	5.201	0.000	0	56027	50.0	51.2	
$ 5 Toluene-d8 (Surr)	98	6.819	6.819	0.000	92	394069	50.0	52.1	
$ 6 4-Bromofluorobenzene (Surr	174	9.490	9.490	0.000	94	134955	50.0	52.7	
10 Dichlorodifluoromethane	85	1.928	1.928	0.000	100	155929	50.0	62.7	
12 Chloromethane	50	2.104	2.104	0.000	99	92214	50.0	42.6	
13 Vinyl chloride	62	2.208	2.208	0.000	99	91870	50.0	45.5	
151 Butadiene	54	2.226	2.226	0.000	94	75896	50.0	46.1	M
14 Bromomethane	94	2.500	2.500	0.000	92	52114	50.0	47.8	
15 Chloroethane	64	2.579	2.579	0.000	98	39273	50.0	44.4	
16 Dichlorofluoromethane	67	2.725	2.725	0.000	96	123507	50.0	48.3	M
17 Trichlorofluoromethane	101	2.749	2.749	0.000	83	126245	50.0	52.4	
18 Ethyl ether	59	2.956	2.956	0.000	88	88914	50.0	45.5	
20 Acrolein	56	3.114	3.114	0.000	99	66594	250.0	264.4	
21 1,1,2-Trichloro-1,2,2-trif	101	3.145	3.145	0.000	91	126017	50.0	63.6	M
22 1,1-Dichloroethene	96	3.181	3.181	0.000	97	109093	50.0	49.0	
23 Acetone	43	3.224	3.224	0.000	99	184275	250.0	260.3	
25 Iodomethane	142	3.339	3.339	0.000	97	216342	50.0	54.4	
26 Carbon disulfide	76	3.388	3.388	0.000	98	493636	50.0	58.5	M
27 Methyl acetate	43	3.443	3.443	0.000	97	530093	250.0	265.6	
28 3-Chloro-1-propene	41	3.449	3.449	0.000	93	191592	50.0	54.1	
30 Methylene Chloride	84	3.564	3.564	0.000	87	136263	50.0	50.9	
31 2-Methyl-2-propanol	59	3.613	3.613	0.000	100	151990	500.0	586.5	
32 Methyl tert-butyl ether	73	3.717	3.717	0.000	93	328047	50.0	47.0	
34 trans-1,2-Dichloroethene	96	3.753	3.753	0.000	98	138033	50.0	54.9	
33 Acrylonitrile	53	3.765	3.765	0.000	99	475277	500.0	537.1	
35 Hexane	57	3.887	3.887	0.000	90	213985	50.0	56.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
37 Vinyl acetate	43	4.069	4.069	0.000	97	318951	100.0	107.7	
39 1,1-Dichloroethane	63	4.088	4.088	0.000	96	221340	50.0	53.2	
43 2-Butanone (MEK)	43	4.526	4.526	0.000	98	303712	250.0	269.3	
44 2,2-Dichloropropane	77	4.526	4.526	0.000	92	128856	50.0	49.1	
45 cis-1,2-Dichloroethene	96	4.538	4.538	0.000	80	145905	50.0	54.0	
48 Chlorobromomethane	128	4.745	4.745	0.000	90	71854	50.0	55.9	
49 Tetrahydrofuran	42	4.763	4.763	0.000	86	81267	100.0	108.5	
50 Chloroform	83	4.781	4.781	0.000	95	215162	50.0	51.7	
51 1,1,1-Trichloroethane	97	4.927	4.927	0.000	98	145162	50.0	47.6	
52 Cyclohexane	56	4.951	4.951	0.000	89	159881	50.0	45.1	
54 1,1-Dichloropropene	75	5.043	5.043	0.000	98	169588	50.0	54.7	
55 Carbon tetrachloride	117	5.049	5.049	0.000	98	140406	50.0	54.2	
53 Isobutyl alcohol	43	5.104	5.104	0.000	93	173590	1250.0	1563.4	
57 Benzene	78	5.231	5.231	0.000	95	543498	50.0	52.8	
58 1,2-Dichloroethane	62	5.268	5.268	0.000	97	155037	50.0	50.5	
59 n-Heptane	43	5.323	5.323	0.000	89	202337	50.0	56.6	
62 Trichloroethene	95	5.748	5.748	0.000	97	135743	50.0	55.1	
64 Methylcyclohexane	83	5.888	5.888	0.000	86	209314	50.0	52.7	
65 1,2-Dichloropropane	63	5.974	5.974	0.000	97	127200	50.0	55.4	
66 1,4-Dioxane	88	6.077	6.077	0.000	91	32573	1000.0	1127.2	
67 Dibromomethane	93	6.107	6.107	0.000	93	75601	50.0	54.0	
68 Dichlorobromomethane	83	6.217	6.217	0.000	100	159074	50.0	57.6	
69 2-Chloroethyl vinyl ether	63	6.418	6.418	0.000	92	83775	50.0	58.0	
72 cis-1,3-Dichloropropene	75	6.594	6.594	0.000	97	207422	50.0	59.2	
73 4-Methyl-2-pentanone (MIBK	43	6.691	6.691	0.000	94	601677	250.0	263.6	
74 Toluene	92	6.886	6.886	0.000	99	351923	50.0	53.1	
75 Ethyl methacrylate	69	7.105	7.105	0.000	88	171996	50.0	53.6	
77 trans-1,3-Dichloropropene	75	7.111	7.111	0.000	96	172470	50.0	56.5	
79 1,1,2-Trichloroethane	83	7.306	7.306	0.000	90	94892	50.0	53.5	
81 Tetrachloroethene	166	7.409	7.409	0.000	98	159190	50.0	57.1	
82 1,3-Dichloropropane	76	7.470	7.470	0.000	98	193432	50.0	51.2	
80 2-Hexanone	43	7.482	7.482	0.000	93	425973	250.0	261.4	
83 Chlorodibromomethane	129	7.713	7.713	0.000	89	122829	50.0	52.1	
84 Ethylene Dibromide	107	7.847	7.847	0.000	98	118401	50.0	55.7	
87 Chlorobenzene	112	8.297	8.297	0.000	97	383303	50.0	55.0	
88 Ethylbenzene	91	8.358	8.358	0.000	97	636934	50.0	54.1	
89 1,1,1,2-Tetrachloroethane	131	8.377	8.377	0.000	96	123231	50.0	57.6	
90 m-Xylene & p-Xylene	106	8.474	8.474	0.000	99	263332	50.0	56.5	
91 o-Xylene	106	8.906	8.906	0.000	96	247283	50.0	56.8	
92 Styrene	104	8.930	8.930	0.000	94	424171	50.0	57.7	
95 Bromoform	173	9.204	9.204	0.000	99	83275	50.0	52.3	
94 Isopropylbenzene	105	9.277	9.277	0.000	95	632156	50.0	54.4	
97 1,1,2,2-Tetrachloroethane	83	9.648	9.648	0.000	96	151400	50.0	52.2	
101 Bromobenzene	156	9.660	9.660	0.000	88	169682	50.0	53.1	
98 trans-1,4-Dichloro-2-buten	53	9.691	9.691	0.000	63	42892	50.0	53.6	
99 N-Propylbenzene	91	9.691	9.691	0.000	99	743034	50.0	52.7	
100 1,2,3-Trichloropropane	110	9.703	9.703	0.000	82	45599	50.0	49.7	
103 2-Chlorotoluene	126	9.824	9.824	0.000	97	152681	50.0	53.5	
102 1,3,5-Trimethylbenzene	105	9.861	9.861	0.000	94	528663	50.0	53.7	
105 4-Chlorotoluene	126	9.928	9.928	0.000	97	163036	50.0	54.6	
106 tert-Butylbenzene	134	10.177	10.177	0.000	91	123256	50.0	55.6	
107 1,2,4-Trimethylbenzene	105	10.226	10.226	0.000	96	548488	50.0	54.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
109 sec-Butylbenzene	105	10.378	10.378	0.000	94	688237	50.0	55.1	
110 4-Isopropyltoluene	119	10.506	10.506	0.000	97	609509	50.0	55.9	
111 1,3-Dichlorobenzene	146	10.542	10.542	0.000	98	324215	50.0	53.4	
113 1,4-Dichlorobenzene	146	10.621	10.621	0.000	96	327360	50.0	52.9	
115 n-Butylbenzene	91	10.877	10.877	0.000	97	539852	50.0	55.7	
116 1,2-Dichlorobenzene	146	10.968	10.968	0.000	99	305841	50.0	53.0	
117 1,2-Dibromo-3-Chloropropan	75	11.643	11.643	0.000	90	25837	50.0	46.0	
119 1,2,4-Trichlorobenzene	180	12.282	12.282	0.000	94	221236	50.0	56.1	
120 Hexachlorobutadiene	225	12.380	12.380	0.000	95	130622	50.0	54.1	
121 Naphthalene	128	12.513	12.513	0.000	97	509553	50.0	55.1	
122 1,2,3-Trichlorobenzene	180	12.726	12.726	0.000	96	201818	50.0	54.4	
S 125 1,2-Dichloroethene, Total	1				0			108.9	
S 126 1,3-Dichloropropene, Total	1				0			115.6	
S 123 Total BTEX	1				0			273.2	
S 124 Xylenes, Total	1				0			113.2	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00025	Amount Added: 25.00	Units: uL		
GAS CORP mix_00054	Amount Added: 25.00	Units: uL		
F 8260 SURR_00111	Amount Added: 1.00	Units: uL	Run Reagent	
F 8260 IS_00280	Amount Added: 1.00	Units: uL	Run Reagent	

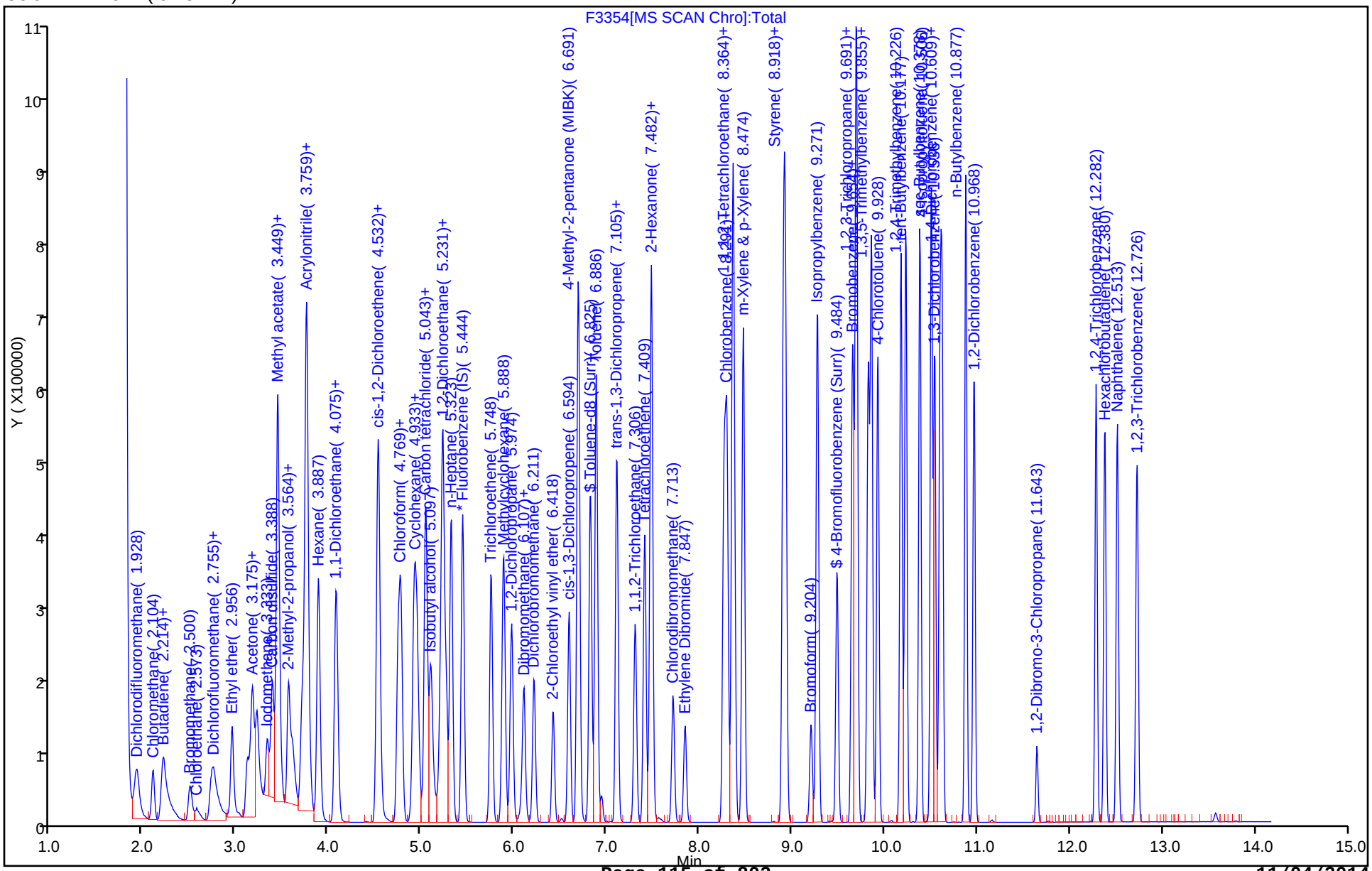
Report Date: 27-Oct-2014 10:37:52 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973F\20141027-36738.b\F3354.D

Injection Date:	27-Oct-2014 10:12:30	Instrument ID:	HP5973F	Operator ID:	NMD
Lims ID:	CCVIS			Worklist Smp#:	4
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



Manual Integration/User Assign Peak Report

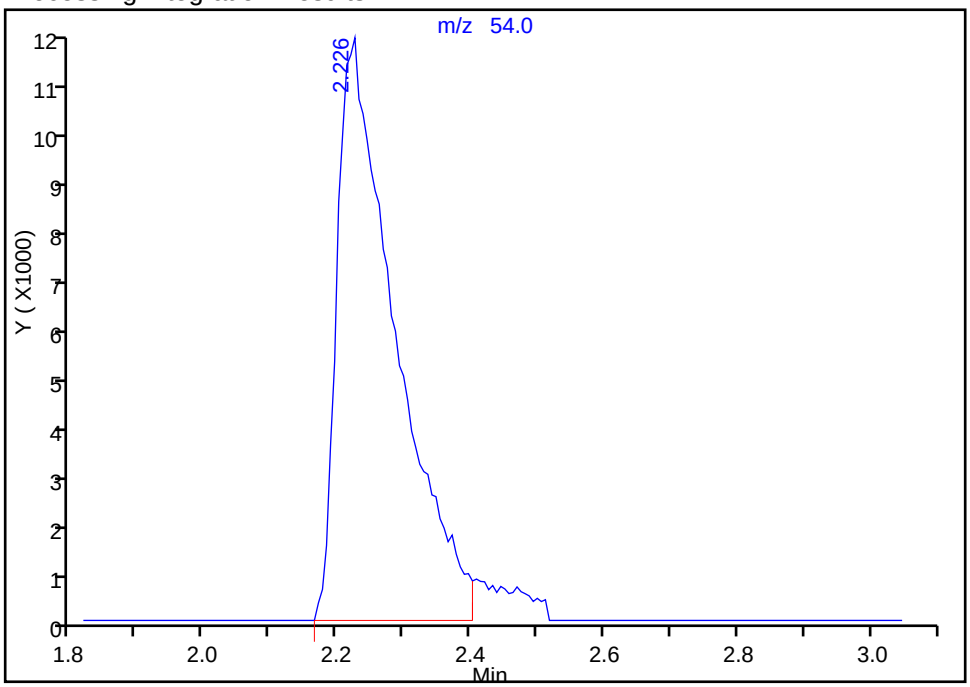
TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973F\20141027-36738.b\F3354.D
Injection Date: 27-Oct-2014 10:12:30 Instrument ID: HP5973F
Lims ID: CCVIS
Client ID:
Operator ID: NMD ALS Bottle#: 6 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: F-8260 SOIL Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

151 Butadiene, CAS: 106-99-0

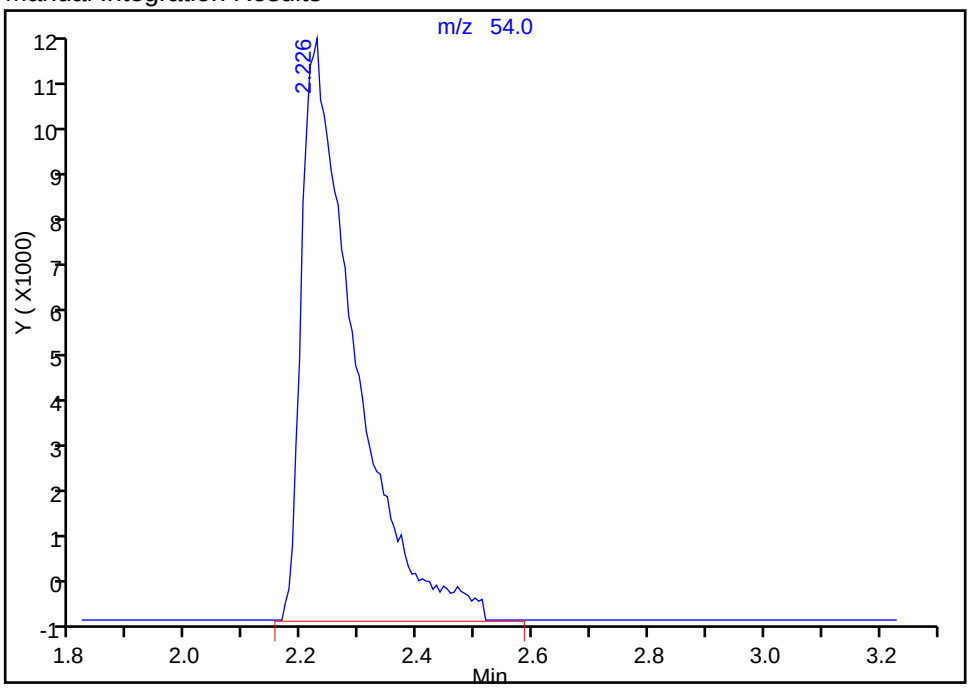
Processing Integration Results

RT: 2.23
Response: 71384
Amount: 43.349991



Manual Integration Results

RT: 2.23
Response: 75896
Amount: 46.090033



Reviewer: diasn, 27-Oct-2014 10:37:51
Audit Action: Manually Integrated
Audit Reason: Peak Tail

Manual Integration/User Assign Peak Report

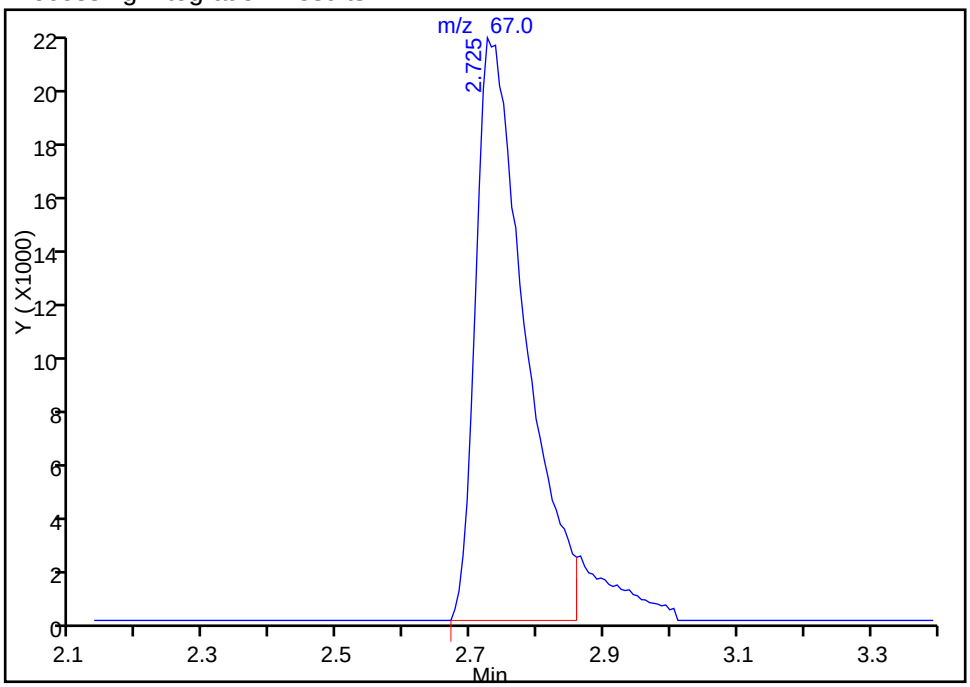
TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973F\20141027-36738.b\F3354.D
Injection Date: 27-Oct-2014 10:12:30 Instrument ID: HP5973F
Lims ID: CCVIS
Client ID:
Operator ID: NMD ALS Bottle#: 6 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: F-8260 SOIL Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

16 Dichlorofluoromethane, CAS: 75-43-4

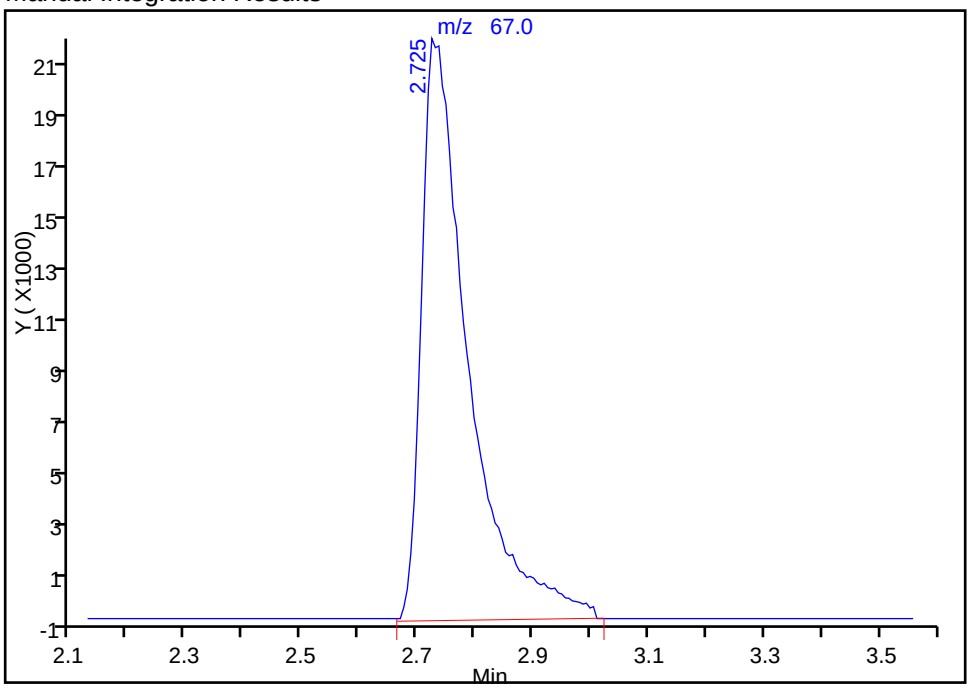
Processing Integration Results

RT: 2.72
Response: 112622
Amount: 44.049455



Manual Integration Results

RT: 2.72
Response: 123507
Amount: 48.306868



Reviewer: diasn, 27-Oct-2014 10:37:51
Audit Action: Manually Integrated
Audit Reason: Peak Tail

Manual Integration/User Assign Peak Report

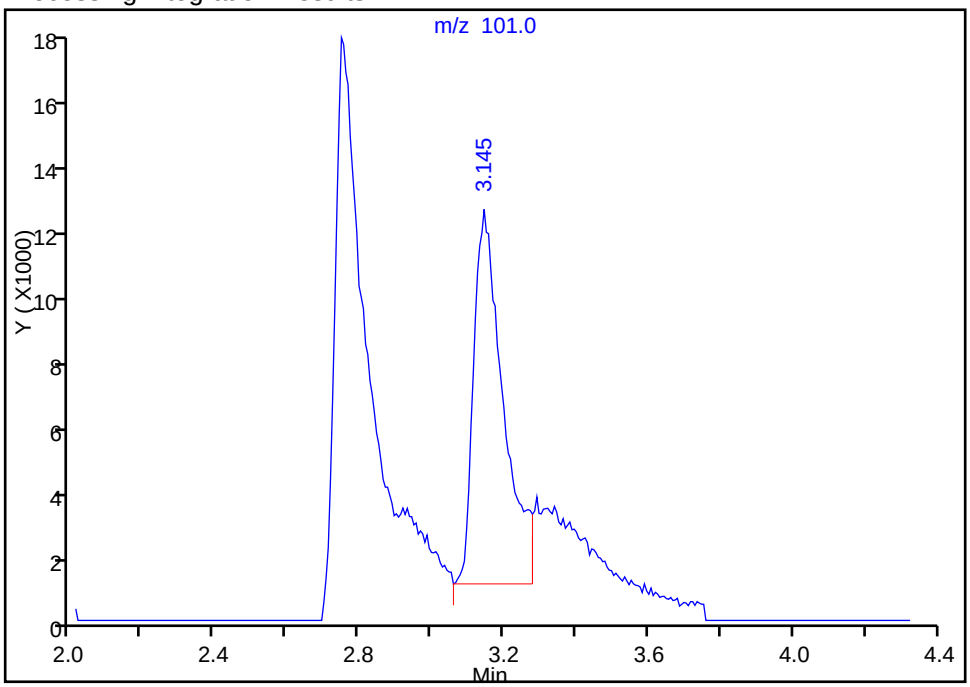
TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973F\20141027-36738.b\F3354.D
Injection Date: 27-Oct-2014 10:12:30 Instrument ID: HP5973F
Lims ID: CCVIS
Client ID:
Operator ID: NMD ALS Bottle#: 6 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: F-8260 SOIL Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

21 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

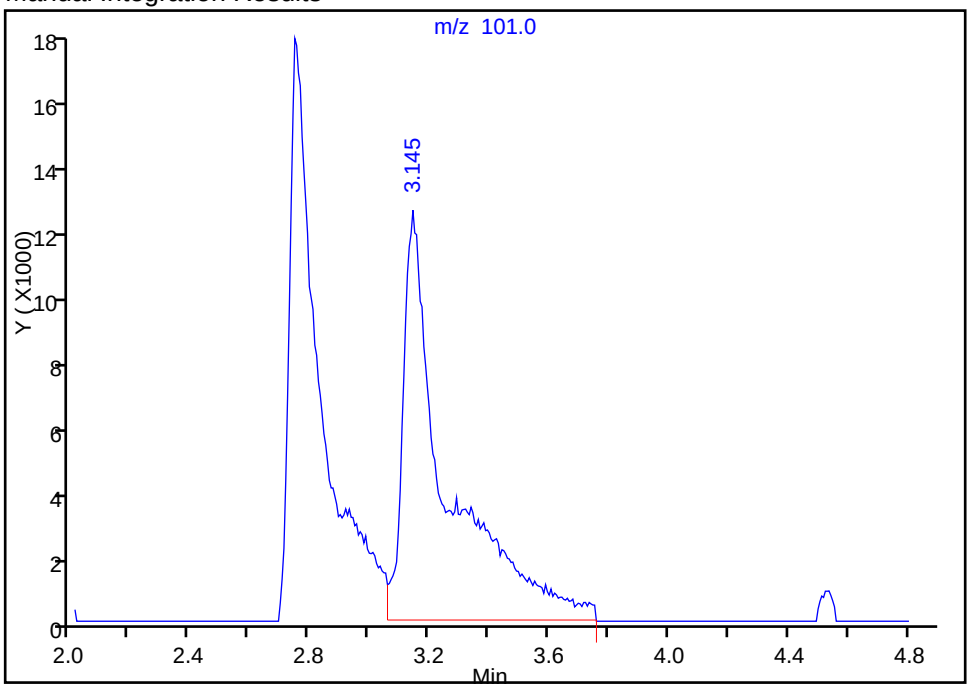
Processing Integration Results

RT: 3.14
Response: 64771
Amount: 32.679599



Manual Integration Results

RT: 3.14
Response: 126017
Amount: 63.580692



Reviewer: diasn, 27-Oct-2014 10:37:51
Audit Action: Manually Integrated
Audit Reason: Peak Tail

Manual Integration/User Assign Peak Report

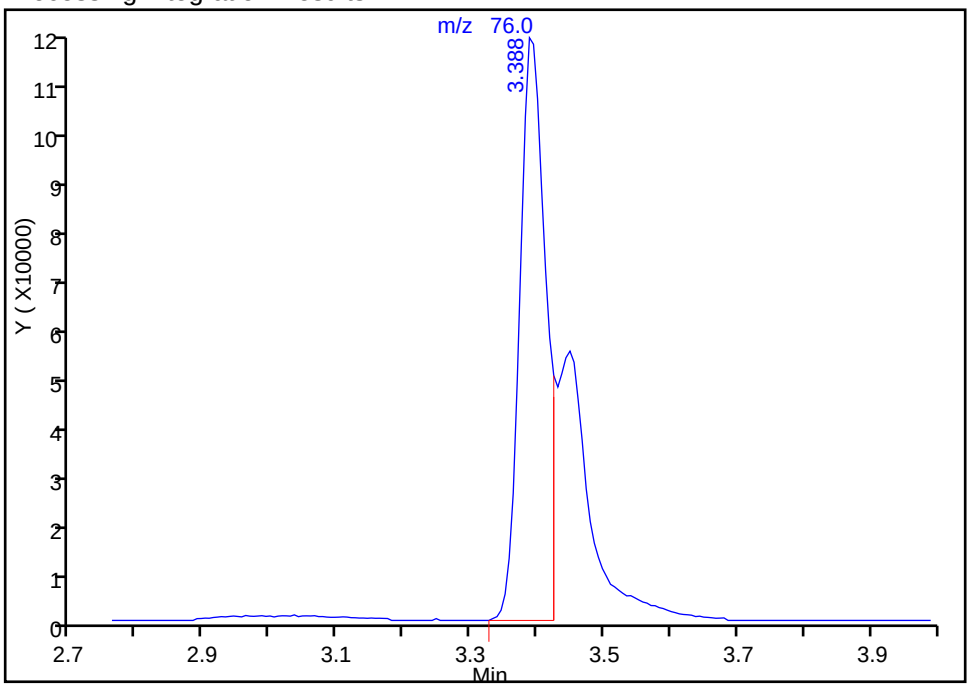
TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973F\20141027-36738.b\F3354.D
Injection Date: 27-Oct-2014 10:12:30 Instrument ID: HP5973F
Lims ID: CCVIS
Client ID:
Operator ID: NMD ALS Bottle#: 6 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: F-8260 SOIL Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

26 Carbon disulfide, CAS: 75-15-0

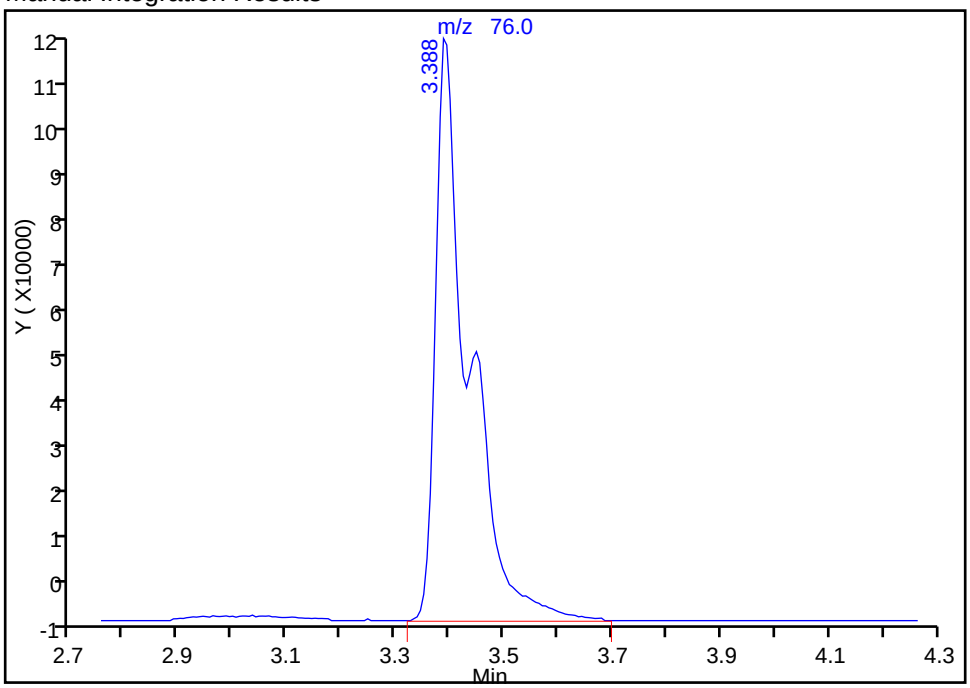
Processing Integration Results

RT: 3.39
Response: 310488
Amount: 36.811829



Manual Integration Results

RT: 3.39
Response: 493636
Amount: 58.526076



Reviewer: diasn, 27-Oct-2014 10:37:51
Audit Action: Manually Integrated
Audit Reason: Split Peak

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973F\20141010-36203.b\F2882.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 10-Oct-2014 12:54:30 ALS Bottle#: 11 Worklist Smp#: 2
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info: BFB
Misc. Info.: 480-0036203-002480-0036203-002
Operator ID: NMD Instrument ID: HP5973F

Method: \\Bufchrom\ChromData\HP5973F\20141010-36203.b\F-8260 SOIL.m
Limit Group: MV - 8260C ICAL
Last Update: 11-Oct-2014 10:46:26 Calib Date: 10-Oct-2014 16:15:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5973F\20141010-36203.b\F2890.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK007

First Level Reviewer: diasn Date: 11-Oct-2014 10:46:26

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
$ 61 BFB	95	5.607	5.607	0.000	0	43854	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

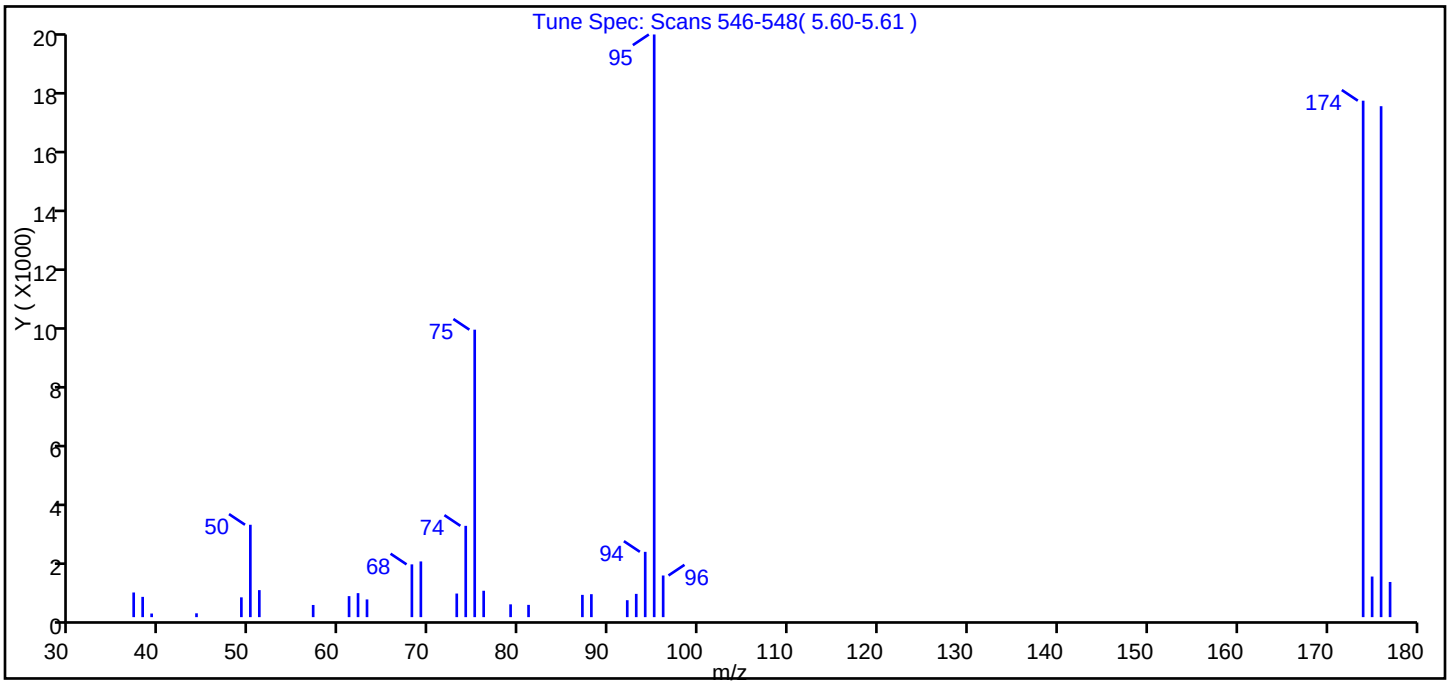
BFB_WRK_00037 Amount Added: 1.00 Units: uL

MS Tune Report

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973F\20141010-36203.b\F2882.D
Injection Date: 10-Oct-2014 12:54:30 Instrument ID: HP5973F
Lims ID: BFB
Client ID:
Operator ID: NMD ALS Bottle#: 11 Worklist Smp#: 2
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Method: F-8260 SOIL Limit Group: MV - 8260C ICAL
Tune Method: BFB Method 8260

$ 61 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	15.90
75	30.00 - 60.00% of mass 95	49.30
96	5.00 - 9.00% of mass 95	7.10
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 120.00% of mass 95	88.60
175	5.00 - 9.00% of mass 174	7.00 (7.90)
176	95.00 - 101.00% of mass 174	87.70 (98.90)
177	5.00 - 9.00% of mass 176	6.00 (6.90)

Data File: \\Bufchrom\ChromData\HP5973F\20141010-36203.b\F2882.D\F-8260 SOIL.rslt\spectra.d
Injection Date: 10-Oct-2014 12:54:30
Spectrum: Tune Spec: Scans 546-548(5.60-5.61)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 30

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	822	61.00	701	76.00	880	95.00	19432
38.00	676	62.00	801	79.00	427	96.00	1389
39.00	121	63.00	591	81.00	409	174.00	17224
44.00	128	68.00	1760	87.00	743	175.00	1354
49.00	660	69.00	1858	88.00	766	176.00	17040
50.00	3081	73.00	787	92.00	565	177.00	1173
51.00	901	74.00	3045	93.00	776		
57.00	406	75.00	9587	94.00	2178		

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973F\20141027-36738.b\F3351.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 27-Oct-2014 08:52:30 ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info: BFB
Misc. Info.: 480-0036738-003480-0036738-003
Operator ID: NMD Instrument ID: HP5973F

Method: \\Bufchrom\ChromData\HP5973F\20141027-36738.b\F-8260 SOIL.m
Limit Group: MV - 8260C ICAL
Last Update: 27-Oct-2014 09:01:52 Calib Date: 10-Oct-2014 16:15:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5973F\20141010-36203.b\F2890.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK005

First Level Reviewer: diasn Date: 27-Oct-2014 09:01:52

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
$ 61 BFB	95	5.613	5.613	0.000	0	44754	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

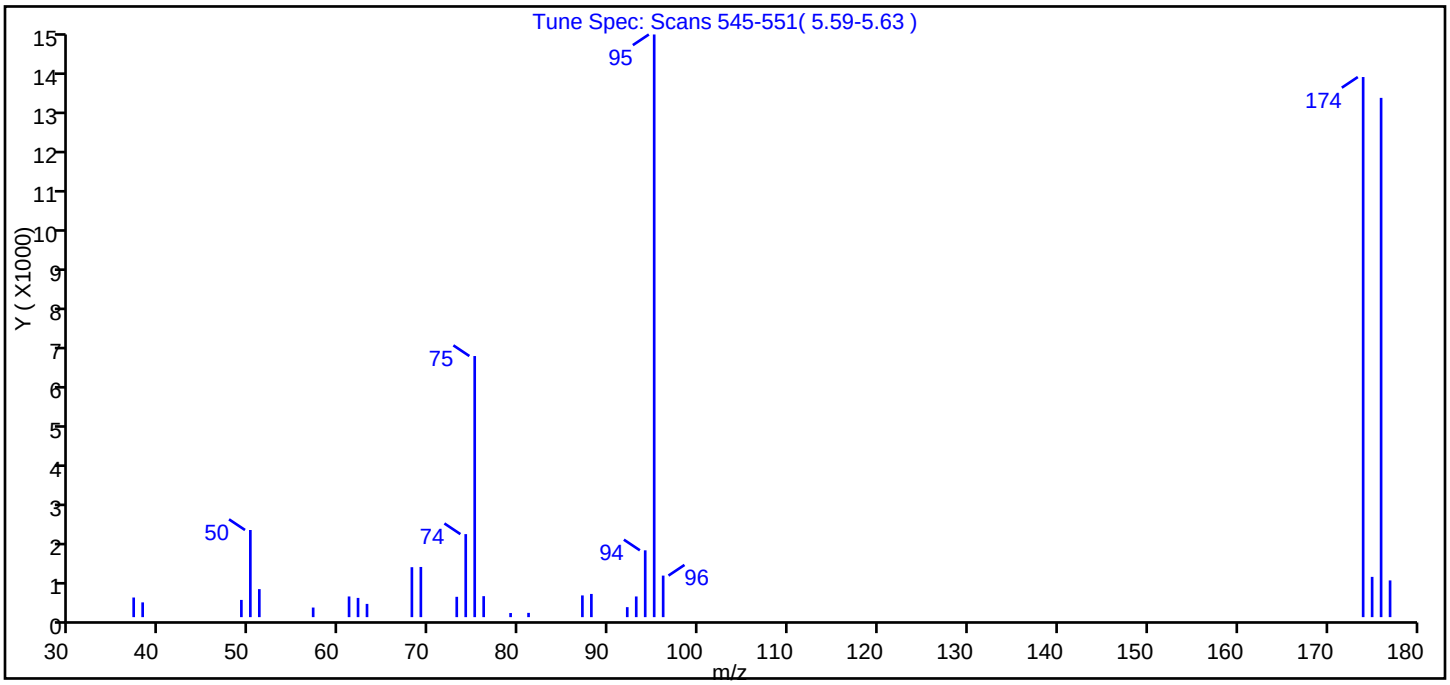
BFB_WRK_00037 Amount Added: 1.00 Units: uL

MS Tune Report

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973F\20141027-36738.b\F3351.D
Injection Date: 27-Oct-2014 08:52:30 Instrument ID: HP5973F
Lims ID: BFB
Client ID:
Operator ID: NMD ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Method: F-8260 SOIL Limit Group: MV - 8260C ICAL
Tune Method: BFB Method 8260

$ 61 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	15.00
75	30.00 - 60.00% of mass 95	44.80
96	5.00 - 9.00% of mass 95	7.10
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 120.00% of mass 95	92.70
175	5.00 - 9.00% of mass 174	6.90 (7.50)
176	95.00 - 101.00% of mass 174	89.10 (96.10)
177	5.00 - 9.00% of mass 176	6.30 (7.10)

Data File: \\Bufchrom\ChromData\HP5973F\20141027-36738.b\F3351.D\F-8260 SOIL.rslt\spectra.d
Injection Date: 27-Oct-2014 08:52:30
Spectrum: Tune Spec: Scans 545-551(5.59-5.63)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 28

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	505	62.00	495	76.00	540	94.00	1719
38.00	380	63.00	341	79.00	106	95.00	14991
49.00	443	68.00	1285	81.00	110	96.00	1069
50.00	2242	69.00	1291	87.00	559	174.00	13896
51.00	721	73.00	523	88.00	597	175.00	1036
57.00	247	74.00	2136	92.00	257	176.00	13360
61.00	532	75.00	6718	93.00	532	177.00	945

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-70101-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 480-210136/8

Matrix: Solid | Lab File ID: F3357.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(g) | Date Analyzed: 10/27/2014 11:28

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (60) ID: 0.25(mm)

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

Analysis Batch No.: 210136 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		5.0	0.36
79-34-5	1,1,2,2-Tetrachloroethane	ND		5.0	0.81
79-00-5	1,1,2-Trichloroethane	ND		5.0	0.65
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.1
75-34-3	1,1-Dichloroethane	ND		5.0	0.61
75-35-4	1,1-Dichloroethene	ND		5.0	0.61
120-82-1	1,2,4-Trichlorobenzene	ND		5.0	0.30
96-12-8	1,2-Dibromo-3-Chloropropane	ND		5.0	2.5
106-93-4	1,2-Dibromoethane	ND		5.0	0.64
95-50-1	1,2-Dichlorobenzene	ND		5.0	0.39
107-06-2	1,2-Dichloroethane	ND		5.0	0.25
78-87-5	1,2-Dichloropropane	ND		5.0	2.5
541-73-1	1,3-Dichlorobenzene	ND		5.0	0.26
106-46-7	1,4-Dichlorobenzene	ND		5.0	0.70
591-78-6	2-Hexanone	ND		25	2.5
78-93-3	2-Butanone (MEK)	ND		25	1.8
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		25	1.6
67-64-1	Acetone	ND		25	4.2
71-43-2	Benzene	ND		5.0	0.25
75-27-4	Bromodichloromethane	ND		5.0	0.67
75-25-2	Bromoform	ND		5.0	2.5
74-83-9	Bromomethane	ND		5.0	0.45
75-15-0	Carbon disulfide	ND		5.0	2.5
56-23-5	Carbon tetrachloride	ND		5.0	0.48
108-90-7	Chlorobenzene	ND		5.0	0.66
124-48-1	Dibromochloromethane	ND		5.0	0.64
75-00-3	Chloroethane	ND		5.0	1.1
67-66-3	Chloroform	ND		5.0	0.31
74-87-3	Chloromethane	ND		5.0	0.30
156-59-2	cis-1,2-Dichloroethene	ND		5.0	0.64
10061-01-5	cis-1,3-Dichloropropene	ND		5.0	0.72
110-82-7	Cyclohexane	ND		5.0	0.70
75-71-8	Dichlorodifluoromethane	ND		5.0	0.41
100-41-4	Ethylbenzene	ND		5.0	0.35
98-82-8	Isopropylbenzene	ND		5.0	0.75

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-70101-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 480-210136/8

Matrix: Solid | Lab File ID: F3357.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(g) | Date Analyzed: 10/27/2014 11:28

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (60) ID: 0.25(mm)

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

Analysis Batch No.: 210136 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		5.0	3.0
1634-04-4	Methyl tert-butyl ether	ND		5.0	0.49
108-87-2	Methylcyclohexane	ND		5.0	0.76
75-09-2	Methylene Chloride	ND		5.0	2.3
100-42-5	Styrene	ND		5.0	0.25
127-18-4	Tetrachloroethene	ND		5.0	0.67
108-88-3	Toluene	ND		5.0	0.38
156-60-5	trans-1,2-Dichloroethene	ND		5.0	0.52
10061-02-6	trans-1,3-Dichloropropene	ND		5.0	2.2
79-01-6	Trichloroethene	ND		5.0	1.1
75-69-4	Trichlorofluoromethane	ND		5.0	0.47
75-01-4	Vinyl chloride	ND		5.0	0.61
1330-20-7	Xylenes, Total	0.899	J	10	0.84

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	98		64-126
2037-26-5	Toluene-d8 (Surr)	106		71-125
460-00-4	4-Bromofluorobenzene (Surr)	103		72-126
1868-53-7	Dibromofluoromethane (Surr)	106		60-140

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973F\20141027-36738.b\F3357.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 27-Oct-2014 11:28:30 ALS Bottle#: 9 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: MB
Misc. Info.: 480-0036738-008480-0036738-008
Operator ID: NMD Instrument ID: HP5973F

Method: \\Bufchrom\ChromData\HP5973F\20141027-36738.b\F-8260 SOIL.m
Limit Group: MV - 8260C ICAL
Last Update: 27-Oct-2014 12:16:03 Calib Date: 10-Oct-2014 16:15:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5973F\20141010-36203.b\F2890.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK005

First Level Reviewer: diasn Date: 27-Oct-2014 12:16:03

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
* 153 Fluorobenzene (IS)	70	5.444	5.444	0.000	99	92857	50.0	50.0	
* 2 Chlorobenzene-d5	82	8.267	8.267	0.000	84	182266	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.597	10.597	0.000	93	182934	50.0	50.0	
$ 154 Dibromofluoromethane (Surr	113	4.921	4.915	0.006	94	94644	50.0	53.2	
$ 4 1,2-Dichloroethane-d4 (Sur	67	5.207	5.207	0.000	0	53866	50.0	49.0	
$ 5 Toluene-d8 (Surr)	98	6.825	6.825	0.000	92	401060	50.0	53.2	
$ 6 4-Bromofluorobenzene (Surr	174	9.490	9.490	0.000	94	131748	50.0	51.6	
10 Dichlorodifluoromethane	85		1.928					ND	
11 Chlorodifluoromethane	51		1.946					ND	
12 Chloromethane	50		2.104					ND	
13 Vinyl chloride	62		2.208					ND	
151 Butadiene	54		2.226					ND	
14 Bromomethane	94		2.500					ND	
15 Chloroethane	64		2.579					ND	
16 Dichlorofluoromethane	67		2.725					ND	
17 Trichlorofluoromethane	101		2.749					ND	
148 Ethanol	45		2.938					ND	
18 Ethyl ether	59		2.956					ND	
19 Propene oxide	58		3.053					ND	
20 Acrolein	56		3.114					ND	
21 1,1,2-Trichloro-1,2,2-trif	101		3.145					ND	
22 1,1-Dichloroethene	96		3.181					ND	
23 Acetone	43		3.224					ND	
24 Isopropyl alcohol	45		3.315					ND	
25 Iodomethane	142		3.339					ND	
26 Carbon disulfide	76		3.388					ND	
27 Methyl acetate	43		3.443					ND	
28 3-Chloro-1-propene	41		3.449					ND	
29 Acetonitrile	40		3.485					ND	
30 Methylene Chloride	84		3.564					ND	
31 2-Methyl-2-propanol	59		3.613					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
32 Methyl tert-butyl ether	73		3.717					ND	
34 trans-1,2-Dichloroethene	96		3.753					ND	
33 Acrylonitrile	53		3.765					ND	
35 Hexane	57		3.887					ND	
134 Halothane	117		4.039					ND	
36 Isopropyl ether	45		4.039					ND	
37 Vinyl acetate	43		4.069					ND	
39 1,1-Dichloroethane	63		4.088					ND	
38 1,1-Dimethoxyethane	75		4.118					ND	
40 2-Chloro-1,3-butadiene	53		4.136					ND	
41 Tert-butyl ethyl ether	59		4.325					ND	
43 2-Butanone (MEK)	43		4.526					ND	
44 2,2-Dichloropropane	77		4.526					ND	
42 Ethyl acetate	43		4.526					ND	
45 cis-1,2-Dichloroethene	96		4.538					ND	
46 Propionitrile	54		4.623					ND	
47 Methacrylonitrile	41		4.720					ND	
48 Chlorobromomethane	128		4.745					ND	
49 Tetrahydrofuran	42		4.763					ND	
50 Chloroform	83		4.781					ND	
51 1,1,1-Trichloroethane	97		4.927					ND	
52 Cyclohexane	56		4.951					ND	
54 1,1-Dichloropropene	75		5.043					ND	
55 Carbon tetrachloride	117		5.049					ND	
53 Isobutyl alcohol	43		5.104					ND	
147 t-Amyl alcohol	59		5.177					ND	
152 Isooctane	57		5.189					ND	
57 Benzene	78		5.231					ND	
56 Tert-amyl methyl ether	73		5.244					ND	
58 1,2-Dichloroethane	62		5.268					ND	
59 n-Heptane	43		5.323					ND	
1 1,4-Difluorobenzene	114		5.511					ND	
136 2,4,4-Trimethyl-1-pentene	55		5.633					ND	
60 n-Butanol	56		5.651					ND	
62 Trichloroethene	95		5.748					ND	
137 Ethyl acrylate	55		5.779					ND	
135 2,4,4-Trimethyl-2-pentene	97		5.815					ND	
64 Methylcyclohexane	83		5.888					ND	
65 1,2-Dichloropropane	63		5.974					ND	
63 Methyl methacrylate	41		5.986					ND	
66 1,4-Dioxane	88		6.077					ND	
67 Dibromomethane	93		6.107					ND	
68 Dichlorobromomethane	83		6.217					ND	
69 2-Chloroethyl vinyl ether	63		6.418					ND	
70 2-Nitropropane	43		6.430					ND	
71 Epichlorohydrin	57		6.539					ND	
72 cis-1,3-Dichloropropene	75		6.594					ND	
73 4-Methyl-2-pentanone (MIBK	43		6.691					ND	
74 Toluene	92		6.886					ND	
75 Ethyl methacrylate	69		7.105					ND	
77 trans-1,3-Dichloropropene	75		7.111					ND	
79 1,1,2-Trichloroethane	83		7.306					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
81 Tetrachloroethene	166		7.409					ND	
82 1,3-Dichloropropane	76		7.470					ND	
80 2-Hexanone	43		7.482					ND	
155 n-Butyl acetate	43		7.561					ND	
83 Chlorodibromomethane	129		7.713					ND	
84 Ethylene Dibromide	107		7.847					ND	
146 1-Chlorohexane	55		8.188					ND	
85 3-Chlorobenzotrifluoride	180		8.194					ND	
86 4-Chlorobenzotrifluoride	180		8.255					ND	
87 Chlorobenzene	112		8.297					ND	
88 Ethylbenzene	91		8.358					ND	
89 1,1,1,2-Tetrachloroethane	131		8.377					ND	
90 m-Xylene & p-Xylene	106	8.474	8.474	0.000	95	4179		0.8986	
91 o-Xylene	106		8.906					ND	
92 Styrene	104		8.930					ND	
93 2-Chlorobenzotrifluoride	180		9.186					ND	
95 Bromoform	173		9.204					ND	
94 Isopropylbenzene	105		9.277					ND	
96 Cyclohexanone	55		9.472					ND	
97 1,1,2,2-Tetrachloroethane	83		9.648					ND	
101 Bromobenzene	156		9.660					ND	
98 trans-1,4-Dichloro-2-buten	53		9.691					ND	
99 N-Propylbenzene	91		9.691					ND	
100 1,2,3-Trichloropropane	110		9.703					ND	
103 2-Chlorotoluene	126		9.824					ND	
102 1,3,5-Trimethylbenzene	105		9.861					ND	
104 3-Chlorotoluene	126		9.879					ND	
105 4-Chlorotoluene	126		9.928					ND	
106 tert-Butylbenzene	134		10.177					ND	
107 1,2,4-Trimethylbenzene	105		10.226					ND	
108 Pentachloroethane	167		10.256					ND	
109 sec-Butylbenzene	105		10.378					ND	
110 4-Isopropyltoluene	119		10.506					ND	
111 1,3-Dichlorobenzene	146		10.542					ND	
114 Dicyclopentadiene	66		10.615					ND	
113 1,4-Dichlorobenzene	146		10.621					ND	
112 1,2,3-Trimethylbenzene	105		10.634					ND	
150 Benzyl chloride	126		10.749					ND	
115 n-Butylbenzene	91		10.877					ND	
76 2-Methylthiophene	97		10.900					ND	
116 1,2-Dichlorobenzene	146		10.968					ND	
78 3-Methylthiophene	97		11.028					ND	
117 1,2-Dibromo-3-Chloropropan	75		11.643					ND	
118 1,3,5-Trichlorobenzene	180		11.765					ND	
119 1,2,4-Trichlorobenzene	180		12.282					ND	
120 Hexachlorobutadiene	225		12.380					ND	
121 Naphthalene	128		12.513					ND	
122 1,2,3-Trichlorobenzene	180		12.726					ND	
149 2-Methylnaphthalene	142		13.572					ND	
144 1-Bromopropane TIC	1		0.000					ND	
145 Ethylene oxide TIC	1		0.000					ND	
143 Propene oxide TIC	1		0.000					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
S 125 1,2-Dichloroethene, Total	1		30.000					0	
S 126 1,3-Dichloropropene, Total	1		30.000					0	
S 123 Total BTEX	1				0			0.8986	
S 124 Xylenes, Total	1				0			0.8986	
T 138 Aziridine TIC	1		0.000					0	
T 133 cis-1,4-Dichloro-2-butene	88		0.000					0	
T 132 Methyl acrylate	1		0.000					0	
T 139 Bromoethane TIC	1		0.000					0	
T 142 1-Bromopropane	1		0.000					0	
T 141 Pentachloroethane TIC	1		0.000					0	
T 140 bis(chloromethyl)ether TIC	1		0.000					0	
T 127 Ethanol TIC	45		0.000					0	
T 9 bis(2-chloromethyl)ether T	1		0.000					0	
T 7 Ethylene oxide	1		0.000					0	
T 128 Hexachloroethane TIC	1		0.000					0	
T 131 Nitrobenzene	77		0.000					0	
T 130 Hexachloroethane	117		0.000					0	
T 129 tert-amyl alcohol TIC	59		0.000					0	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

F 8260 SURR_00111	Amount Added:	1.00	Units: uL	Run Reagent
F 8260 IS_00280	Amount Added:	1.00	Units: uL	Run Reagent

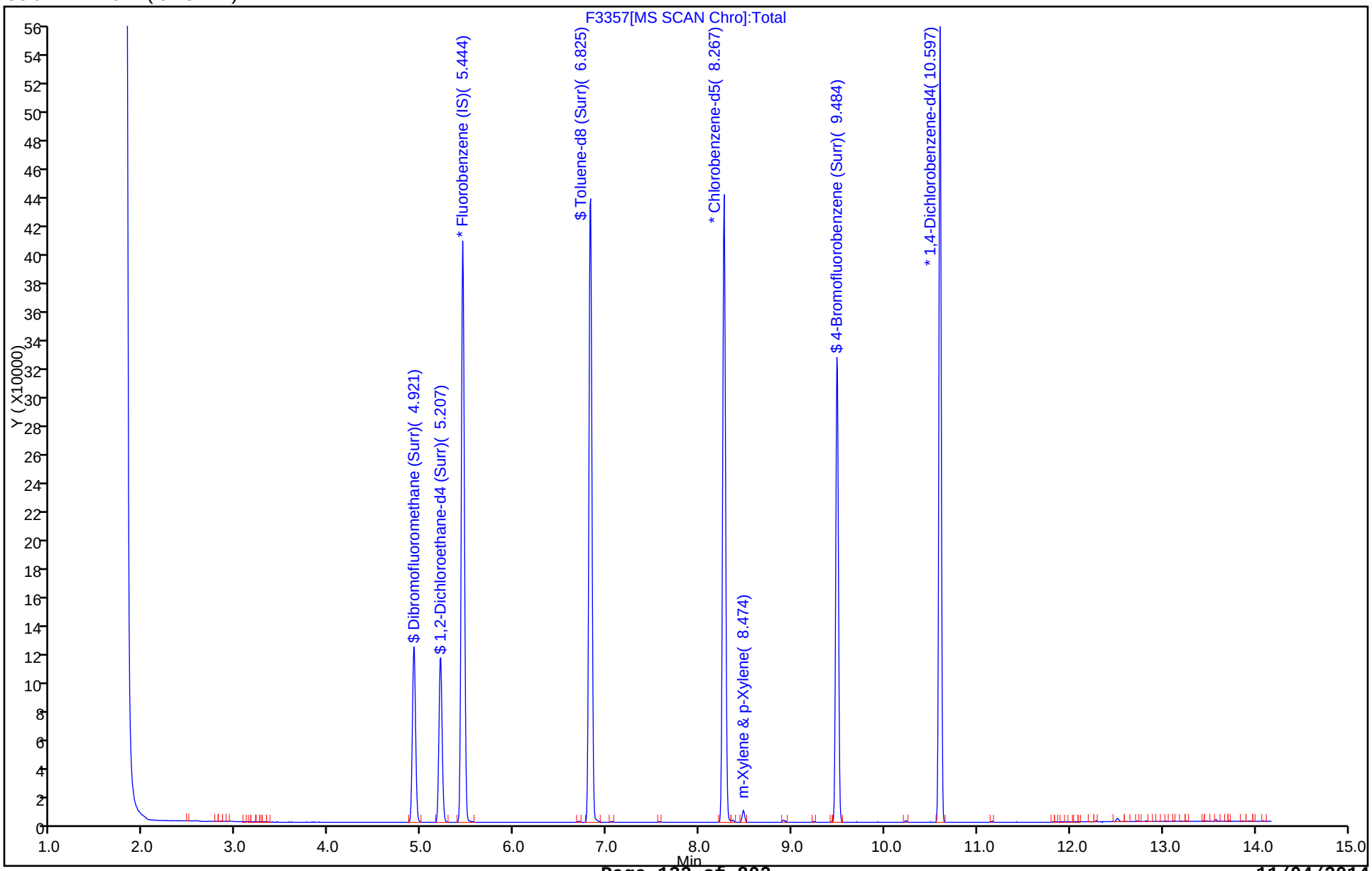
Report Date: 27-Oct-2014 12:16:04 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973F\20141027-36738.b\F3357.D

Injection Date:	27-Oct-2014 11:28:30	Instrument ID:	HP5973F	Operator ID:	NMD
Lims ID:	MB			Worklist Smp#:	8
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



Report Date: 27-Oct-2014 12:16:04 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973F\20141027-36738.b\F3357.D

Injection Date: 27-Oct-2014 11:28:30 Instrument ID: HP5973F

Lims ID: MB

Client ID:

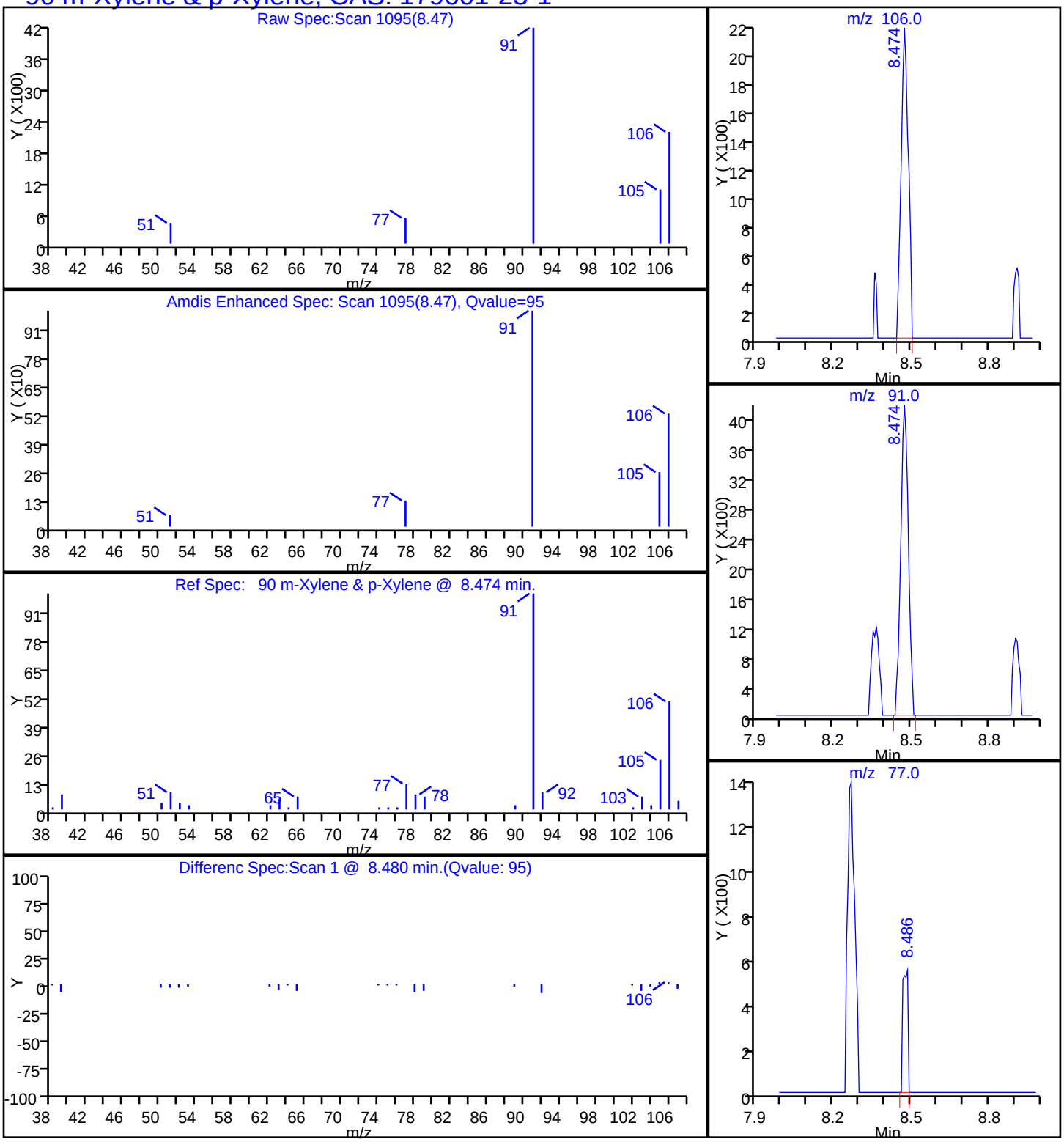
Operator ID: NMD ALS Bottle#: 9 Worklist Smp#: 8

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: F-8260 SOIL Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm) Detector MS SCAN

90 m-Xylene & p-Xylene, CAS: 179601-23-1



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-70101-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 480-210136/6

Matrix: Solid | Lab File ID: F3355.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(g) | Date Analyzed: 10/27/2014 10:37

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (60) ID: 0.25(mm)

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

Analysis Batch No.: 210136 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	42.8		5.0	0.36
79-34-5	1,1,2,2-Tetrachloroethane	50.2		5.0	0.81
79-00-5	1,1,2-Trichloroethane	51.8		5.0	0.65
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	58.7		5.0	1.1
75-34-3	1,1-Dichloroethane	50.5		5.0	0.61
75-35-4	1,1-Dichloroethene	40.9		5.0	0.61
120-82-1	1,2,4-Trichlorobenzene	52.5		5.0	0.30
96-12-8	1,2-Dibromo-3-Chloropropane	45.2		5.0	2.5
106-93-4	1,2-Dibromoethane	54.0		5.0	0.64
95-50-1	1,2-Dichlorobenzene	49.9		5.0	0.39
107-06-2	1,2-Dichloroethane	48.9		5.0	0.25
78-87-5	1,2-Dichloropropane	53.3		5.0	2.5
541-73-1	1,3-Dichlorobenzene	49.5		5.0	0.26
106-46-7	1,4-Dichlorobenzene	49.1		5.0	0.70
591-78-6	2-Hexanone	258		25	2.5
78-93-3	2-Butanone (MEK)	260		25	1.8
108-10-1	4-Methyl-2-pentanone (MIBK)	257		25	1.6
67-64-1	Acetone	246		25	4.2
71-43-2	Benzene	50.1		5.0	0.25
75-27-4	Bromodichloromethane	55.9		5.0	0.67
75-25-2	Bromoform	50.8		5.0	2.5
74-83-9	Bromomethane	42.8		5.0	0.45
75-15-0	Carbon disulfide	53.3		5.0	2.5
56-23-5	Carbon tetrachloride	46.2		5.0	0.48
108-90-7	Chlorobenzene	51.8		5.0	0.66
124-48-1	Dibromochloromethane	50.3		5.0	0.64
75-00-3	Chloroethane	40.3		5.0	1.1
67-66-3	Chloroform	49.1		5.0	0.31
74-87-3	Chloromethane	37.6		5.0	0.30
156-59-2	cis-1,2-Dichloroethene	51.9		5.0	0.64
10061-01-5	cis-1,3-Dichloropropene	57.0		5.0	0.72
110-82-7	Cyclohexane	39.7		5.0	0.70
75-71-8	Dichlorodifluoromethane	57.3		5.0	0.41
100-41-4	Ethylbenzene	50.0		5.0	0.35
98-82-8	Isopropylbenzene	49.5		5.0	0.75

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-70101-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 480-210136/6

Matrix: Solid | Lab File ID: F3355.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(g) | Date Analyzed: 10/27/2014 10:37

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (60) ID: 0.25(mm)

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

Analysis Batch No.: 210136 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	264		5.0	3.0
1634-04-4	Methyl tert-butyl ether	45.9		5.0	0.49
108-87-2	Methylcyclohexane	46.1		5.0	0.76
75-09-2	Methylene Chloride	48.6		5.0	2.3
100-42-5	Styrene	54.8		5.0	0.25
127-18-4	Tetrachloroethene	52.0		5.0	0.67
108-88-3	Toluene	49.5		5.0	0.38
156-60-5	trans-1,2-Dichloroethene	51.4		5.0	0.52
10061-02-6	trans-1,3-Dichloropropene	54.5		5.0	2.2
79-01-6	Trichloroethene	51.5		5.0	1.1
75-69-4	Trichlorofluoromethane	46.8		5.0	0.47
75-01-4	Vinyl chloride	40.6		5.0	0.61
1330-20-7	Xylenes, Total	105		10	0.84

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		64-126
2037-26-5	Toluene-d8 (Surr)	103		71-125
460-00-4	4-Bromofluorobenzene (Surr)	106		72-126
1868-53-7	Dibromofluoromethane (Surr)	108		60-140

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973F\20141027-36738.b\F3355.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 27-Oct-2014 10:37:30 ALS Bottle#: 7 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCS
Misc. Info.: 480-0036738-006480-0036738-006
Operator ID: NMD Instrument ID: HP5973F

Method: \\Bufchrom\ChromData\HP5973F\20141027-36738.b\F-8260 SOIL.m
Limit Group: MV - 8260C ICAL
Last Update: 27-Oct-2014 12:15:18 Calib Date: 10-Oct-2014 16:15:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5973F\20141010-36203.b\F2890.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK005

First Level Reviewer: diasn Date: 27-Oct-2014 12:15:18

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
* 153 Fluorobenzene (IS)	70	5.444	5.444	0.000	99	92234	50.0	50.0	
* 2 Chlorobenzene-d5	82	8.267	8.267	0.000	85	184057	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.597	10.597	0.000	93	191822	50.0	50.0	
$ 154 Dibromofluoromethane (Surr	113	4.915	4.915	0.000	94	95021	50.0	53.8	
$ 4 1,2-Dichloroethane-d4 (Sur	67	5.201	5.207	-0.006	0	55803	50.0	51.1	
$ 5 Toluene-d8 (Surr)	98	6.825	6.825	0.000	92	393465	50.0	51.7	
$ 6 4-Bromofluorobenzene (Surr	174	9.490	9.490	0.000	94	136336	50.0	52.9	
10 Dichlorodifluoromethane	85	1.928	1.928	0.000	100	142165	50.0	57.3	
12 Chloromethane	50	2.098	2.104	-0.006	99	81338	50.0	37.6	
13 Vinyl chloride	62	2.202	2.208	-0.006	99	81709	50.0	40.6	
151 Butadiene	54	2.214	2.226	-0.012	90	65216	50.0	39.7	M
14 Bromomethane	94	2.500	2.500	0.000	92	46600	50.0	42.8	
15 Chloroethane	64	2.573	2.579	-0.006	98	35545	50.0	40.3	
16 Dichlorofluoromethane	67	2.731	2.725	0.006	99	108210	50.0	42.4	
17 Trichlorofluoromethane	101	2.755	2.749	0.006	99	112531	50.0	46.8	M
18 Ethyl ether	59	2.956	2.956	0.000	88	80373	50.0	41.2	
20 Acrolein	56	3.114	3.114	0.000	100	62536	250.0	248.7	
21 1,1,2-Trichloro-1,2,2-trif	101	3.133	3.145	-0.012	91	116186	50.0	58.7	M
22 1,1-Dichloroethene	96	3.181	3.181	0.000	96	90937	50.0	40.9	
23 Acetone	43	3.224	3.224	0.000	100	174223	250.0	246.5	
25 Iodomethane	142	3.339	3.339	0.000	97	199473	50.0	50.2	
26 Carbon disulfide	76	3.394	3.388	0.006	99	449026	50.0	53.3	M
27 Methyl acetate	43	3.449	3.443	0.006	97	525253	250.0	263.6	
28 3-Chloro-1-propene	41	3.449	3.449	0.000	88	176532	50.0	49.9	
30 Methylene Chloride	84	3.565	3.564	0.001	88	129974	50.0	48.6	
31 2-Methyl-2-propanol	59	3.613	3.613	0.000	100	142432	500.0	550.4	
32 Methyl tert-butyl ether	73	3.717	3.717	0.000	93	319929	50.0	45.9	
34 trans-1,2-Dichloroethene	96	3.753	3.753	0.000	98	128921	50.0	51.4	
33 Acrylonitrile	53	3.765	3.765	0.000	99	465354	500.0	526.7	
35 Hexane	57	3.887	3.887	0.000	90	188442	50.0	50.0	
37 Vinyl acetate	43	4.069	4.069	0.000	97	308610	100.0	104.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
39 1,1-Dichloroethane	63	4.088	4.088	0.000	96	210013	50.0	50.5	
43 2-Butanone (MEK)	43	4.526	4.526	0.000	98	293075	250.0	260.3	
44 2,2-Dichloropropane	77	4.526	4.526	0.000	89	115754	50.0	44.2	
45 cis-1,2-Dichloroethene	96	4.538	4.538	0.000	79	139911	50.0	51.9	
48 Chlorobromomethane	128	4.745	4.745	0.000	91	70309	50.0	54.8	
49 Tetrahydrofuran	42	4.763	4.763	0.000	85	78816	100.0	105.4	
50 Chloroform	83	4.781	4.781	0.000	94	204075	50.0	49.1	
51 1,1,1-Trichloroethane	97	4.927	4.927	0.000	98	130539	50.0	42.8	
52 Cyclohexane	56	4.952	4.951	0.001	86	140519	50.0	39.7	
54 1,1-Dichloropropene	75	5.043	5.043	0.000	98	155944	50.0	50.4	
55 Carbon tetrachloride	117	5.055	5.049	0.006	98	119696	50.0	46.2	
53 Isobutyl alcohol	43	5.104	5.104	0.000	93	168187	1250.0	1517.0	
57 Benzene	78	5.231	5.231	0.000	95	514840	50.0	50.1	
58 1,2-Dichloroethane	62	5.268	5.268	0.000	97	149936	50.0	48.9	
59 n-Heptane	43	5.323	5.323	0.000	89	182028	50.0	51.0	
62 Trichloroethene	95	5.755	5.748	0.007	96	126743	50.0	51.5	
64 Methylcyclohexane	83	5.888	5.888	0.000	87	182535	50.0	46.1	
65 1,2-Dichloropropane	63	5.974	5.974	0.000	97	122283	50.0	53.3	
66 1,4-Dioxane	88	6.077	6.077	0.000	91	31687	1000.0	1090.7	
67 Dibromomethane	93	6.107	6.107	0.000	92	74843	50.0	53.5	
68 Dichlorobromomethane	83	6.217	6.217	0.000	100	154226	50.0	55.9	
69 2-Chloroethyl vinyl ether	63	6.424	6.418	0.006	92	82552	50.0	57.2	
72 cis-1,3-Dichloropropene	75	6.594	6.594	0.000	97	199415	50.0	57.0	
73 4-Methyl-2-pentanone (MIBK	43	6.692	6.691	0.001	94	590391	250.0	256.8	
74 Toluene	92	6.886	6.886	0.000	99	330592	50.0	49.5	
75 Ethyl methacrylate	69	7.105	7.105	0.000	88	170091	50.0	52.7	
77 trans-1,3-Dichloropropene	75	7.111	7.111	0.000	95	167473	50.0	54.5	
79 1,1,2-Trichloroethane	83	7.306	7.306	0.000	90	92598	50.0	51.8	
81 Tetrachloroethene	166	7.409	7.409	0.000	98	145960	50.0	52.0	
82 1,3-Dichloropropane	76	7.470	7.470	0.000	98	188855	50.0	49.7	
80 2-Hexanone	43	7.482	7.482	0.000	93	423225	250.0	257.9	
83 Chlorodibromomethane	129	7.714	7.713	0.001	90	119301	50.0	50.3	
84 Ethylene Dibromide	107	7.847	7.847	0.000	98	115637	50.0	54.0	
87 Chlorobenzene	112	8.298	8.297	0.001	96	363981	50.0	51.8	
88 Ethylbenzene	91	8.358	8.358	0.000	98	593013	50.0	50.0	
89 1,1,1,2-Tetrachloroethane	131	8.377	8.377	0.000	96	117894	50.0	54.7	
90 m-Xylene & p-Xylene	106	8.474	8.474	0.000	99	245758	50.0	52.3	
91 o-Xylene	106	8.906	8.906	0.000	96	231851	50.0	52.8	
92 Styrene	104	8.930	8.930	0.000	95	405418	50.0	54.8	
95 Bromoform	173	9.204	9.204	0.000	99	81277	50.0	50.8	
94 Isopropylbenzene	105	9.271	9.277	-0.006	95	585170	50.0	49.5	
97 1,1,2,2-Tetrachloroethane	83	9.648	9.648	0.000	96	147952	50.0	50.2	
101 Bromobenzene	156	9.660	9.660	0.000	88	164119	50.0	50.4	
98 trans-1,4-Dichloro-2-buten	53	9.691	9.691	0.000	64	41677	50.0	51.2	
99 N-Propylbenzene	91	9.697	9.691	0.006	99	684814	50.0	47.7	
100 1,2,3-Trichloropropane	110	9.703	9.703	0.000	82	44972	50.0	48.2	
103 2-Chlorotoluene	126	9.825	9.824	0.001	97	143621	50.0	49.4	
102 1,3,5-Trimethylbenzene	105	9.855	9.861	-0.006	94	493168	50.0	49.2	
105 4-Chlorotoluene	126	9.928	9.928	0.000	97	152145	50.0	50.0	
106 tert-Butylbenzene	134	10.177	10.177	0.000	91	114242	50.0	50.6	
107 1,2,4-Trimethylbenzene	105	10.226	10.226	0.000	96	509936	50.0	49.4	
109 sec-Butylbenzene	105	10.378	10.378	0.000	93	633621	50.0	49.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
110 4-Isopropyltoluene	119	10.506	10.506	0.000	96	560882	50.0	50.6	
111 1,3-Dichlorobenzene	146	10.542	10.542	0.000	98	306240	50.0	49.5	
113 1,4-Dichlorobenzene	146	10.621	10.621	0.000	95	309160	50.0	49.1	
115 n-Butylbenzene	91	10.877	10.877	0.000	97	486545	50.0	49.3	
116 1,2-Dichlorobenzene	146	10.968	10.968	0.000	99	292955	50.0	49.9	
117 1,2-Dibromo-3-Chloropropan	75	11.644	11.643	0.001	89	25834	50.0	45.2	
119 1,2,4-Trichlorobenzene	180	12.282	12.282	0.000	94	210644	50.0	52.5	
120 Hexachlorobutadiene	225	12.380	12.380	0.000	95	116589	50.0	47.4	
121 Naphthalene	128	12.513	12.513	0.000	97	510857	50.0	54.3	
122 1,2,3-Trichlorobenzene	180	12.726	12.726	0.000	96	195960	50.0	51.9	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00025	Amount Added:	25.00	Units: uL	
GAS CORP mix_00054	Amount Added:	25.00	Units: uL	
F 8260 SURR_00111	Amount Added:	1.00	Units: uL	Run Reagent
F 8260 IS_00280	Amount Added:	1.00	Units: uL	Run Reagent

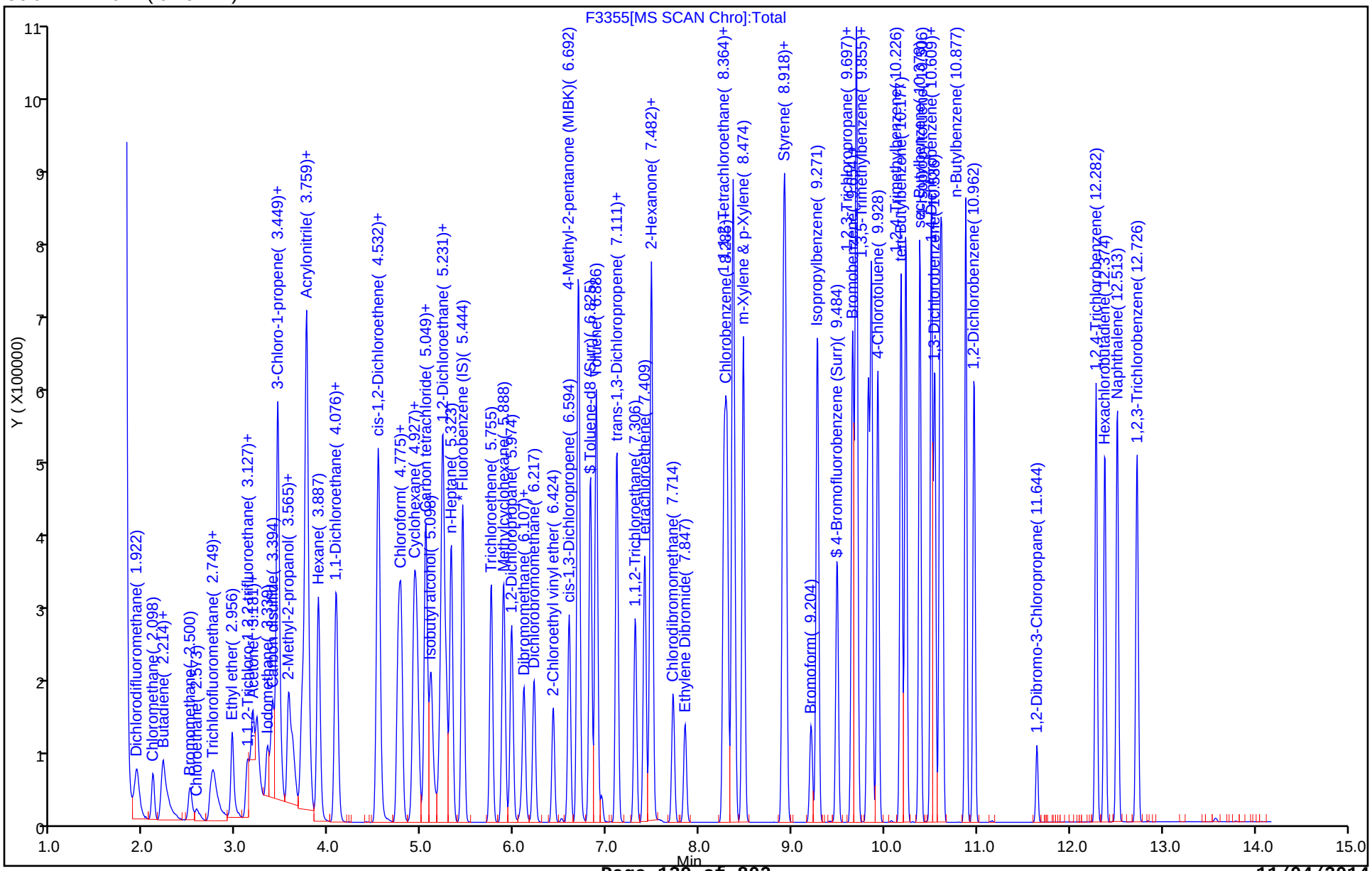
Report Date: 27-Oct-2014 12:15:19 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973F\20141027-36738.b\F3355.D

Injection Date:	27-Oct-2014 10:37:30	Instrument ID:	HP5973F	Operator ID:	NMD
Lims ID:	LCS			Worklist Smp#:	6
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



Manual Integration/User Assign Peak Report

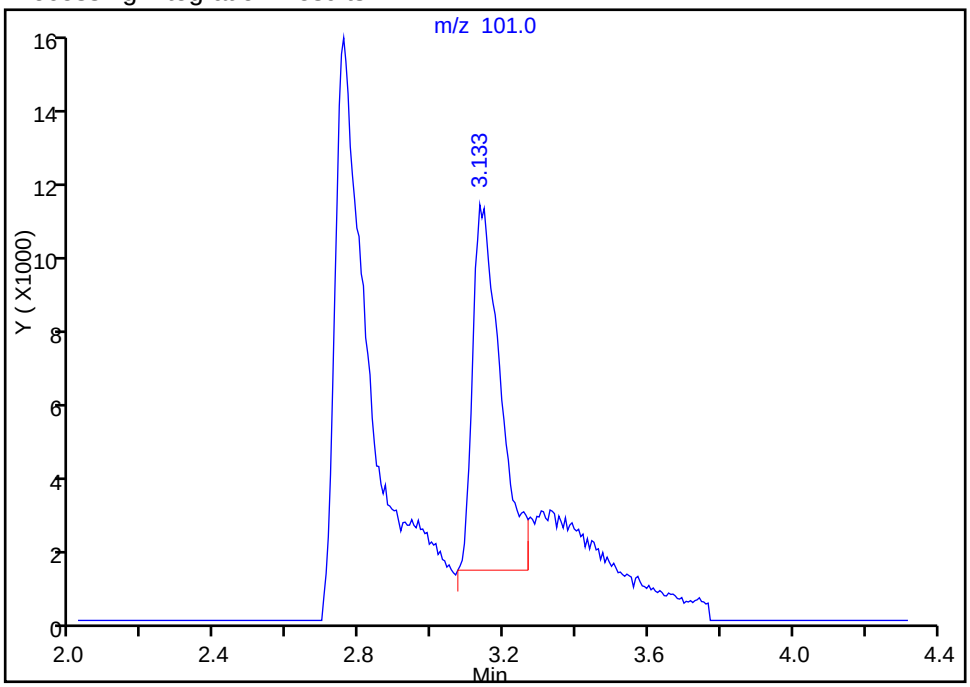
TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973F\20141027-36738.b\F3355.D
Injection Date: 27-Oct-2014 10:37:30 Instrument ID: HP5973F
Lims ID: LCS
Client ID:
Operator ID: NMD ALS Bottle#: 7 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: F-8260 SOIL Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

21 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

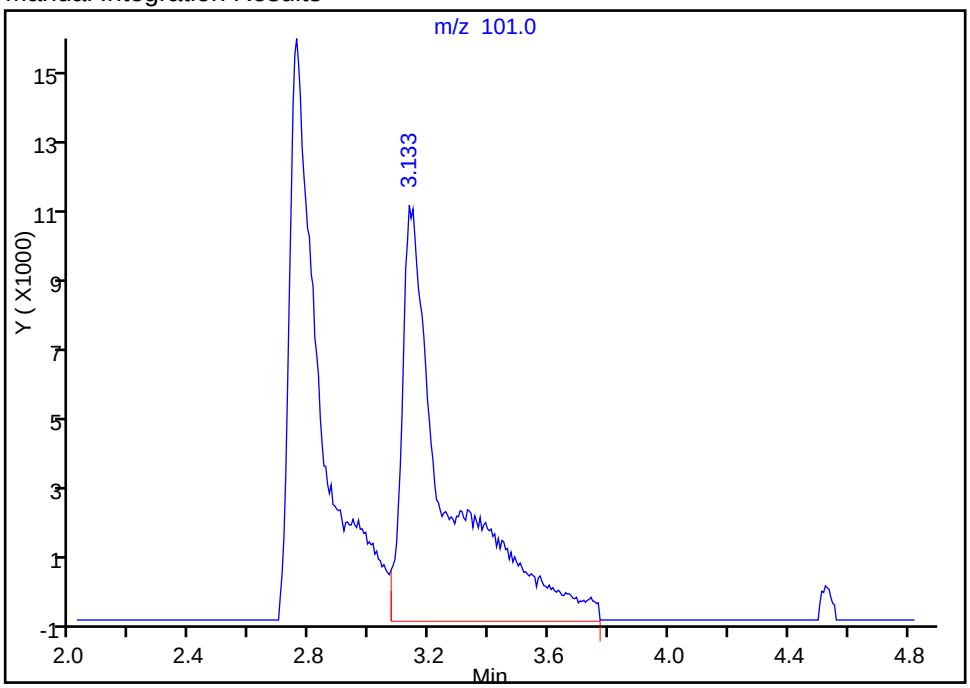
Processing Integration Results

RT: 3.13
Response: 52170
Amount: 26.360980



Manual Integration Results

RT: 3.13
Response: 116186
Amount: 58.707625



Reviewer: diasn, 27-Oct-2014 12:15:18
Audit Action: Manually Integrated
Audit Reason: Peak Tail

Manual Integration/User Assign Peak Report

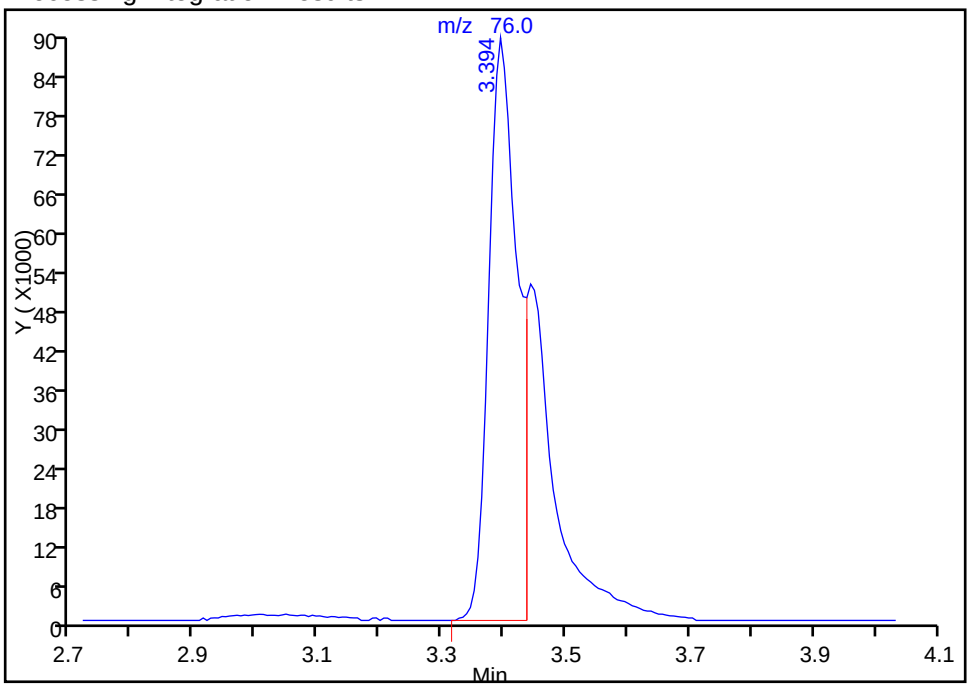
TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973F\20141027-36738.b\F3355.D
Injection Date: 27-Oct-2014 10:37:30 Instrument ID: HP5973F
Lims ID: LCS
Client ID:
Operator ID: NMD ALS Bottle#: 7 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: F-8260 SOIL Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

26 Carbon disulfide, CAS: 75-15-0

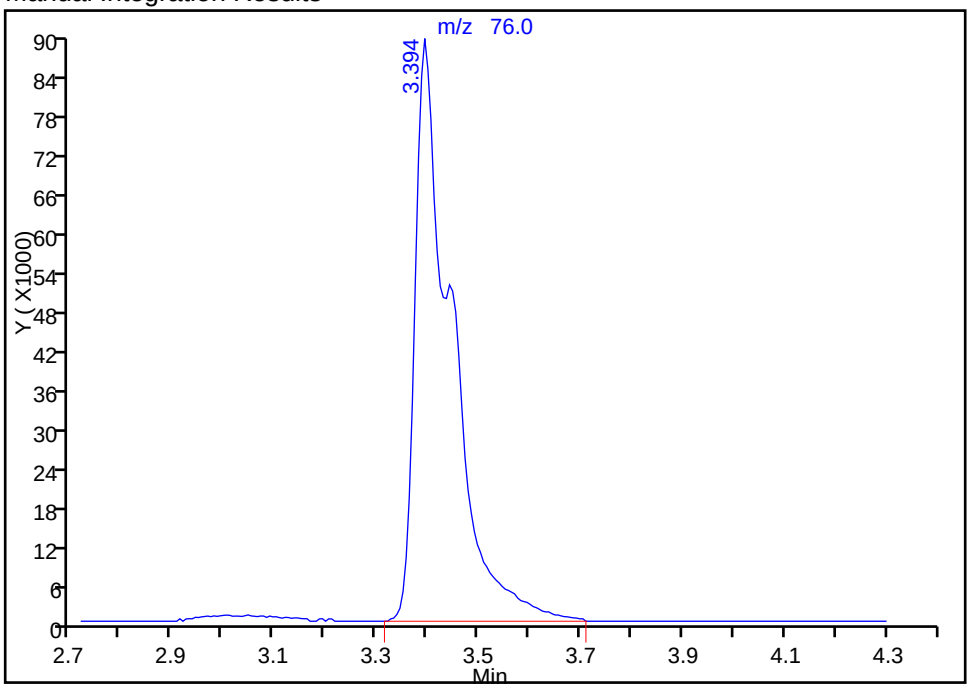
Processing Integration Results

RT: 3.39
Response: 294292
Amount: 34.943439



Manual Integration Results

RT: 3.39
Response: 449026
Amount: 53.316136



Reviewer: diasn, 27-Oct-2014 12:15:18
Audit Action: Manually Integrated
Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

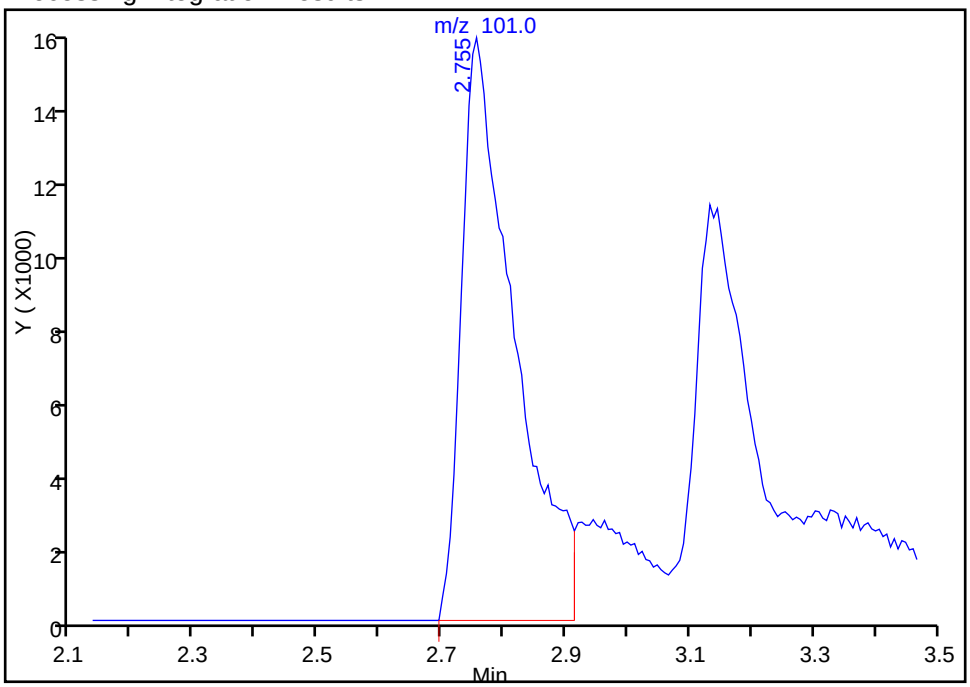
TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973F\20141027-36738.b\F3355.D
Injection Date: 27-Oct-2014 10:37:30 Instrument ID: HP5973F
Lims ID: LCS
Client ID:
Operator ID: NMD ALS Bottle#: 7 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: F-8260 SOIL Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

17 Trichlorofluoromethane, CAS: 75-69-4

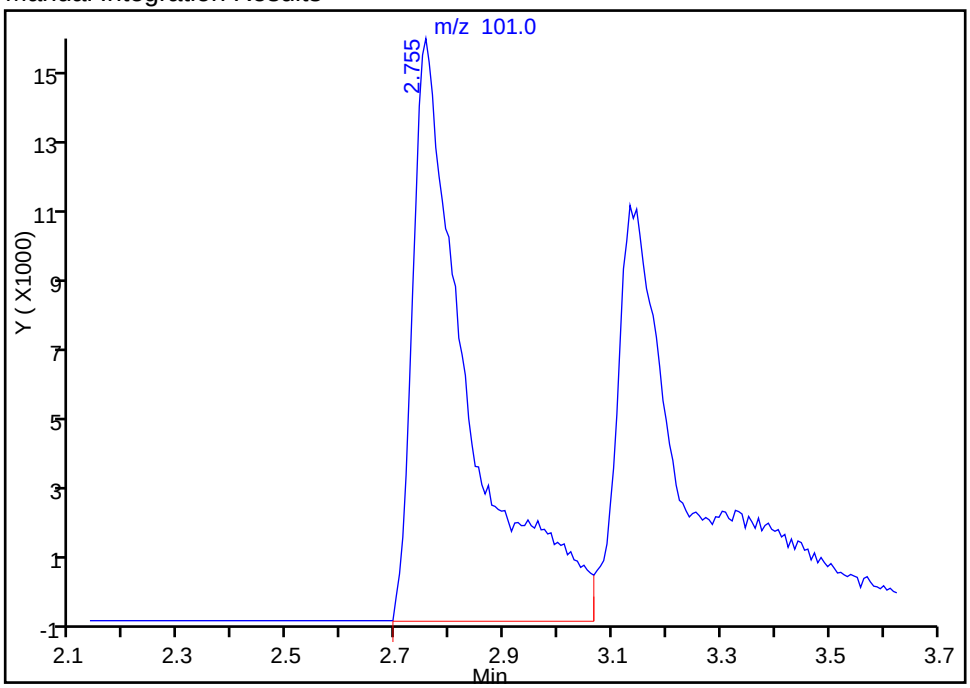
Processing Integration Results

RT: 2.76
Response: 93039
Amount: 38.704499



Manual Integration Results

RT: 2.76
Response: 112531
Amount: 46.813228



Reviewer: diasn, 27-Oct-2014 12:15:18
Audit Action: Manually Integrated
Audit Reason: Peak Tail

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-70101-1

SDG No.:

Instrument ID: HP5973F Start Date: 10/10/2014 12:54

Analysis Batch Number: 207100 End Date: 10/10/2014 17:33

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 480-207100/2		10/10/2014 12:54	1	F2882.D	ZB-624 (60) 0.25(mm)
IC 480-207100/4		10/10/2014 13:44	1	F2884.D	ZB-624 (60) 0.25(mm)
IC 480-207100/5		10/10/2014 14:10	1	F2885.D	ZB-624 (60) 0.25(mm)
IC 480-207100/6		10/10/2014 14:35	1	F2886.D	ZB-624 (60) 0.25(mm)
IC 480-207100/7		10/10/2014 15:00	1	F2887.D	ZB-624 (60) 0.25(mm)
ICIS 480-207100/8		10/10/2014 15:25	1	F2888.D	ZB-624 (60) 0.25(mm)
IC 480-207100/9		10/10/2014 15:50	1	F2889.D	ZB-624 (60) 0.25(mm)
IC 480-207100/10		10/10/2014 16:15	1	F2890.D	ZB-624 (60) 0.25(mm)
MDLV 480-207100/12		10/10/2014 17:07	1		ZB-624 (60) 0.25(mm)
ICV 480-207100/13		10/10/2014 17:33	1		ZB-624 (60) 0.25(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-70101-1

SDG No.:

Instrument ID: HP5973F Start Date: 10/27/2014 08:52

Analysis Batch Number: 210136 End Date: 10/27/2014 19:27

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 480-210136/3		10/27/2014 08:52	1	F3351.D	ZB-624 (60) 0.25(mm)
CCV 480-210136/5		10/27/2014 09:44	1		ZB-624 (60) 0.25(mm)
CCVIS 480-210136/4		10/27/2014 10:12	1	F3354.D	ZB-624 (60) 0.25(mm)
LCS 480-210136/6		10/27/2014 10:37	1	F3355.D	ZB-624 (60) 0.25(mm)
MB 480-210136/8		10/27/2014 11:28	1	F3357.D	ZB-624 (60) 0.25(mm)
MDLV 480-210136/9		10/27/2014 11:53	1		ZB-624 (60) 0.25(mm)
ZZZZZ		10/27/2014 12:36	1		ZB-624 (60) 0.25(mm)
ZZZZZ		10/27/2014 13:02	1		ZB-624 (60) 0.25(mm)
480-70101-1	AS-CONC-PIERS	10/27/2014 13:27	1	F3361.D	ZB-624 (60) 0.25(mm)
480-70101-2	AS-CONC-OUTLET	10/27/2014 13:53	1	F3362.D	ZB-624 (60) 0.25(mm)
ZZZZZ		10/27/2014 14:19	1		ZB-624 (60) 0.25(mm)
ZZZZZ		10/27/2014 14:45	1		ZB-624 (60) 0.25(mm)
ZZZZZ		10/27/2014 15:10	1		ZB-624 (60) 0.25(mm)
ZZZZZ		10/27/2014 15:36	1		ZB-624 (60) 0.25(mm)
ZZZZZ		10/27/2014 16:02	1		ZB-624 (60) 0.25(mm)
ZZZZZ		10/27/2014 16:28	1		ZB-624 (60) 0.25(mm)
ZZZZZ		10/27/2014 16:53	1		ZB-624 (60) 0.25(mm)
ZZZZZ		10/27/2014 17:19	1		ZB-624 (60) 0.25(mm)
ZZZZZ		10/27/2014 17:45	1		ZB-624 (60) 0.25(mm)
ZZZZZ		10/27/2014 18:10	1		ZB-624 (60) 0.25(mm)
ZZZZZ		10/27/2014 18:36	1		ZB-624 (60) 0.25(mm)
ZZZZZ		10/27/2014 19:02	1		ZB-624 (60) 0.25(mm)
ZZZZZ		10/27/2014 19:27	1		ZB-624 (60) 0.25(mm)

GC/MS VOA BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-70101-1

SDG No.:

Batch Number: 210253 Batch Start Date: 10/27/14 11:58 Batch Analyst: Dias, Nicole M

Batch Method: 5035 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	TareWeight	Vial&SampleWt	InitialAmount	FinalAmount		
480-70101-C-1	AS-CONC-PIERS	5035, 8260C	T	+031.270 g	36.70 g	5.43 g	5 mL		
480-70101-C-2	AS-CONC-OUTLET	5035, 8260C	T	+031.554 g	37.15 g	5.596 g	5 mL		

Batch Notes	
Balance ID	A14-03-10

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.

Method 8270D

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

FORM II
GC/MS SEMI VOA SURROGATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-70101-1

SDG No.:

Matrix: Solid Level: Low

GC Column (1): RXI-5Sil MS ID: 0.25 (mm)

Client Sample ID	Lab Sample ID	2FP #	PHL #	NBZ #	FBP #	TBP #	TPH #
AS-CONC-PIERS	480-70101-1	72	81	84	92	34 X	101
AS-CONC-OUTLET	480-70101-2	81	81	82	93	85	103
	MB 480-210189/1-A	90	91	92	98	88	111
	LCS 480-210189/2-A	91	92	93	97	104	105

	QC LIMITS
2FP = 2-Fluorophenol	18-120
PHL = Phenol-d5	11-120
NBZ = Nitrobenzene-d5	34-132
FBP = 2-Fluorobiphenyl	37-120
TBP = 2,4,6-Tribromophenol	39-146
TPH = p-Terphenyl-d14	65-153

Column to be used to flag recovery values

FORM II 8270D

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-70101-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: X00905565.D

Lab ID: LCS 480-210189/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
2,4-Dinitrotoluene	1640	1670	102	55-125	
2-Chlorophenol	1640	1530	93	38-120	
4-Chloro-3-methylphenol	1640	1660	102	49-125	
4-Nitrophenol	3270	3110	95	43-137	
Acenaphthene	1640	1580	97	53-120	
Bis(2-ethylhexyl) phthalate	1640	1710	105	61-133	
Fluorene	1640	1560	96	63-126	
Hexachloroethane	1640	1300	80	41-120	
N-Nitrosodi-n-propylamine	1640	1420	87	46-120	
Pentachlorophenol	3270	2660	81	33-136	
Phenol	1640	1420	87	36-120	
Pyrene	1640	1710	105	51-133	

Column to be used to flag recovery and RPD values

FORM III 8270D

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-70101-1

SDG No.:

Lab File ID: X00905595.D Lab Sample ID: MB 480-210189/1-A

Matrix: Solid Date Extracted: 10/27/2014 08:44

Instrument ID: HP5973X Date Analyzed: 10/30/2014 10:09

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 480-210189/2-A	X00905565.D	10/29/2014 10:41
AS-CONC-PIERS	480-70101-1	X00905578.D	10/29/2014 15:57
AS-CONC-OUTLET	480-70101-2	X00905579.D	10/29/2014 16:20

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

Lab Name: TestAmerica Buffalo Job No.: 480-70101-1

SDG No.:

Lab File ID: X00906829.D DFTPP Injection Date: 10/16/2014

Instrument ID: HP5973X DFTPP Injection Time: 08:00

Analysis Batch No.: 208059

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10-80% of Base Peak	43.0	
68	Less than 2% of mass 69	0.4	(1.0)1
69	Mass 69 Relative abundance	37.3	
70	Less than 2% of mass 69	0.0	(0.0)1
127	10-80% of Base Peak	51.6	
197	Less than 2% of mass 198	0.0	
198	Base peak	100.0	
199	5-9% of mass 198	6.2	
275	10-60% of Base Peak	26.8	
365	Greater than 1% of mass 198	4.1	
441	present but less than 24% of mass 442	13.0	(15.2)2
442	Greater than 50% of mass 198	85.4	
443	15-24% of mass 442	16.3	(19.1)2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 480-208059/3	X00906830.D	10/16/2014	08:43
	ICIS 480-208059/4	X00906831.D	10/16/2014	09:06
	IC 480-208059/5	X00906832.D	10/16/2014	09:30
	IC 480-208059/6	X00906833.D	10/16/2014	09:54
	IC 480-208059/7	X00906834.D	10/16/2014	10:19
	IC 480-208059/8	X00906835.D	10/16/2014	10:43

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

Lab Name: TestAmerica Buffalo Job No.: 480-70101-1

SDG No.:

Lab File ID: X00905559.D DFTPP Injection Date: 10/29/2014

Instrument ID: HP5973X DFTPP Injection Time: 08:04

Analysis Batch No.: 210655

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10-80% of Base Peak	47.2	
68	Less than 2% of mass 69	0.0	(0.0)1
69	Mass 69 Relative abundance	39.0	
70	Less than 2% of mass 69	0.0	(0.0)1
127	10-80% of Base Peak	54.2	
197	Less than 2% of mass 198	0.0	
198	Base peak	100.0	
199	5-9% of mass 198	7.3	
275	10-60% of Base Peak	26.5	
365	Greater than 1% of mass 198	4.4	
441	present but less than 24% of mass 442	11.3	(14.2)2
442	Greater than 50% of mass 198	79.6	
443	15-24% of mass 442	14.9	(18.8)2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 480-210655/3	X00905560.D	10/29/2014	08:36
	LCS 480-210189/2-A	X00905565.D	10/29/2014	10:41
AS-CONC-PIERS	480-70101-1	X00905578.D	10/29/2014	15:57
AS-CONC-OUTLET	480-70101-2	X00905579.D	10/29/2014	16:20

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

Lab Name: TestAmerica Buffalo Job No.: 480-70101-1

SDG No.:

Lab File ID: X00905591.D DFTPP Injection Date: 10/30/2014

Instrument ID: HP5973X DFTPP Injection Time: 08:18

Analysis Batch No.: 210927

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10-80% of Base Peak	50.8	
68	Less than 2% of mass 69	0.0	(0.0)1
69	Mass 69 Relative abundance	40.6	
70	Less than 2% of mass 69	0.0	(0.0)1
127	10-80% of Base Peak	53.4	
197	Less than 2% of mass 198	0.0	
198	Base peak	100.0	
199	5-9% of mass 198	7.6	
275	10-60% of Base Peak	25.6	
365	Greater than 1% of mass 198	4.2	
441	present but less than 24% of mass 442	11.8	(14.8)2
442	Greater than 50% of mass 198	79.5	
443	15-24% of mass 442	15.5	(19.5)2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 480-210927/3	X00905592.D	10/30/2014	08:51
	MB 480-210189/1-A	X00905595.D	10/30/2014	10:09

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

Lab Name: TestAmerica Buffalo Job No.: 480-70101-1

SDG No.:

Sample No.: ICIS 480-208059/4 Date Analyzed: 10/16/2014 09:06

Instrument ID: HP5973X GC Column: RXI-5Sil MS ID: 0.25(mm)

Lab File ID (Standard): X00906831.D Heated Purge: (Y/N) N

Calibration ID: 20708

		DCB		NPT		ANT	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		67265	5.94	264284	7.47	150539	9.54
UPPER LIMIT		134530	6.44	528568	7.97	301078	10.04
LOWER LIMIT		33633	5.44	132142	6.97	75270	9.04
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCVIS 480-210655/3		70148	5.95	266019	7.47	149785	9.54
CCVIS 480-210927/3		62513	5.92	245114	7.44	135206	9.52

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

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8270D

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

Lab Name: TestAmerica Buffalo Job No.: 480-70101-1

SDG No.:

Sample No.: ICIS 480-208059/4 Date Analyzed: 10/16/2014 09:06

Instrument ID: HP5973X GC Column: RXI-5Sil MS ID: 0.25(mm)

Lab File ID (Standard): X00906831.D Heated Purge: (Y/N) N

Calibration ID: 20708

		PHN		CRY		PRY	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		277113	11.16	306710	13.57	318468	14.80
UPPER LIMIT		554226	11.66	613420	14.07	636936	15.30
LOWER LIMIT		138557	10.66	153355	13.07	159234	14.30
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCVIS 480-210655/3		273164	11.16	302100	13.57	291947	14.80
CCVIS 480-210927/3		243370	11.14	265129	13.56	249312	14.78

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

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8270D

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

Lab Name: TestAmerica Buffalo Job No.: 480-70101-1

SDG No.:

Sample No.: CCVIS 480-210655/3 Date Analyzed: 10/29/2014 08:36

Instrument ID: HP5973X GC Column: RXI-5Sil MS ID: 0.25(mm)

Lab File ID (Standard): X00905560.D Heated Purge: (Y/N) N

Calibration ID: 20708

		DCB		NPT		ANT	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		70148	5.95	266019	7.47	149785	9.54
UPPER LIMIT		140296	6.45	532038	7.97	299570	10.04
LOWER LIMIT		35074	5.45	133010	6.97	74893	9.04
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 480-210189/2-A		36733	5.95	141757	7.47	81354	9.55
480-70101-1	AS-CONC-PIERS	37917	5.94	150484	7.46	82916	9.54
480-70101-2	AS-CONC-OUTLET	39208	5.94	151117	7.46	82688	9.53

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

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8270D

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

Lab Name: TestAmerica Buffalo Job No.: 480-70101-1

SDG No.:

Sample No.: CCVIS 480-210655/3 Date Analyzed: 10/29/2014 08:36

Instrument ID: HP5973X GC Column: RXI-5Sil MS ID: 0.25(mm)

Lab File ID (Standard): X00905560.D Heated Purge: (Y/N) N

Calibration ID: 20708

		PHN		CRY		PRY	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		273164	11.16	302100	13.57	291947	14.80
UPPER LIMIT		546328	11.66	604200	14.07	583894	15.30
LOWER LIMIT		136582	10.66	151050	13.07	145974	14.30
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 480-210189/2-A		147329	11.16	159928	13.57	154118	14.80
480-70101-1	AS-CONC-PIERS	150469	11.15	158705	13.56	159801	14.80
480-70101-2	AS-CONC-OUTLET	149808	11.15	162202	13.56	159238	14.80

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

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8270D

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

Lab Name: TestAmerica Buffalo Job No.: 480-70101-1

SDG No.:

Sample No.: CCVIS 480-210927/3 Date Analyzed: 10/30/2014 08:51

Instrument ID: HP5973X GC Column: RXI-5Sil MS ID: 0.25(mm)

Lab File ID (Standard): X00905592.D Heated Purge: (Y/N) N

Calibration ID: 20708

		DCB		NPT		ANT	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		62513	5.92	245114	7.44	135206	9.52
UPPER LIMIT		125026	6.42	490228	7.94	270412	10.02
LOWER LIMIT		31257	5.42	122557	6.94	67603	9.02
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 480-210189/1-A		40660	5.94	156026	7.46	88700	9.54

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

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8270D

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

Lab Name: TestAmerica Buffalo Job No.: 480-70101-1

SDG No.:

Sample No.: CCVIS 480-210927/3 Date Analyzed: 10/30/2014 08:51

Instrument ID: HP5973X GC Column: RXI-5Sil MS ID: 0.25(mm)

Lab File ID (Standard): X00905592.D Heated Purge: (Y/N) N

Calibration ID: 20708

		PHN		CRY		PRY	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		243370	11.14	265129	13.56	249312	14.78
UPPER LIMIT		486740	11.64	530258	14.06	498624	15.28
LOWER LIMIT		121685	10.64	132565	13.06	124656	14.28
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 480-210189/1-A		159710	11.16	173712	13.57	160641	14.80

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

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8270D

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-70101-1

SDG No.:

Client Sample ID: AS-CONC-PIERS | Lab Sample ID: 480-70101-1

Matrix: Solid | Lab File ID: X00905578.D

Analysis Method: 8270D | Date Collected: 10/23/2014 14:00

Extract. Method: 3550C | Date Extracted: 10/27/2014 08:44

Sample wt/vol: +30.23(g) | Date Analyzed: 10/29/2014 15:57

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 6.0 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 210655 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	Biphenyl	ND		180	26
108-60-1	bis (2-chloroisopropyl) ether	ND		180	36
95-95-4	2,4,5-Trichlorophenol	ND		180	49
88-06-2	2,4,6-Trichlorophenol	ND		180	36
120-83-2	2,4-Dichlorophenol	ND		180	19
105-67-9	2,4-Dimethylphenol	ND		180	43
51-28-5	2,4-Dinitrophenol	ND		350	110
121-14-2	2,4-Dinitrotoluene	ND		180	37
606-20-2	2,6-Dinitrotoluene	ND		180	21
91-58-7	2-Chloronaphthalene	ND		180	30
95-57-8	2-Chlorophenol	ND		180	33
91-57-6	2-Methylnaphthalene	ND		180	36
95-48-7	2-Methylphenol	ND		180	21
88-74-4	2-Nitroaniline	ND		350	26
88-75-5	2-Nitrophenol	ND		180	51
91-94-1	3,3'-Dichlorobenzidine	ND		350	210
99-09-2	3-Nitroaniline	ND		350	50
534-52-1	4,6-Dinitro-2-methylphenol	ND		350	180
101-55-3	4-Bromophenyl phenyl ether	ND		180	25
59-50-7	4-Chloro-3-methylphenol	ND		180	44
106-47-8	4-Chloroaniline	ND		180	44
7005-72-3	4-Chlorophenyl phenyl ether	ND		180	22
106-44-5	4-Methylphenol	ND		350	21
100-01-6	4-Nitroaniline	ND		350	94
100-02-7	4-Nitrophenol	ND		350	130
83-32-9	Acenaphthene	ND		180	26
208-96-8	Acenaphthylene	ND		180	23
98-86-2	Acetophenone	ND		180	24
120-12-7	Anthracene	ND		180	44
1912-24-9	Atrazine	ND		180	62
100-52-7	Benzaldehyde	ND		180	140
56-55-3	Benzo(a)anthracene	ND		180	18
50-32-8	Benzo(a)pyrene	ND		180	26
205-99-2	Benzo(b)fluoranthene	ND		180	29

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-70101-1

SDG No.:

Client Sample ID: AS-CONC-PIERS | Lab Sample ID: 480-70101-1

Matrix: Solid | Lab File ID: X00905578.D

Analysis Method: 8270D | Date Collected: 10/23/2014 14:00

Extract. Method: 3550C | Date Extracted: 10/27/2014 08:44

Sample wt/vol: +30.23(g) | Date Analyzed: 10/29/2014 15:57

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 6.0 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 210655 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
191-24-2	Benzo(g,h,i)perylene	ND		180	19
207-08-9	Benzo(k)fluoranthene	ND		180	23
111-91-1	Bis(2-chloroethoxy)methane	ND		180	38
111-44-4	Bis(2-chloroethyl)ether	ND		180	23
117-81-7	Bis(2-ethylhexyl) phthalate	ND		180	61
85-68-7	Butyl benzyl phthalate	ND		180	30
105-60-2	Caprolactam	ND	*	180	54
86-74-8	Carbazole	ND		180	21
218-01-9	Chrysene	ND		180	40
84-74-2	Di-n-butyl phthalate	ND		180	31
117-84-0	Di-n-octyl phthalate	ND		180	21
53-70-3	Dibenz(a,h)anthracene	ND		180	32
132-64-9	Dibenzofuran	ND		180	21
84-66-2	Diethyl phthalate	ND		180	23
131-11-3	Dimethyl phthalate	ND		180	21
206-44-0	Fluoranthene	ND		180	19
86-73-7	Fluorene	ND		180	21
118-74-1	Hexachlorobenzene	ND		180	24
87-68-3	Hexachlorobutadiene	ND		180	26
77-47-4	Hexachlorocyclopentadiene	ND		180	24
67-72-1	Hexachloroethane	ND		180	23
193-39-5	Indeno(1,2,3-cd)pyrene	ND		180	22
78-59-1	Isophorone	ND		180	38
621-64-7	N-Nitrosodi-n-propylamine	ND		180	31
86-30-6	N-Nitrosodiphenylamine	ND		180	150
91-20-3	Naphthalene	ND		180	23
98-95-3	Nitrobenzene	ND		180	20
87-86-5	Pentachlorophenol	ND		350	180
85-01-8	Phenanthrene	ND		180	26
108-95-2	Phenol	ND		180	27
129-00-0	Pyrene	ND		180	21

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-70101-1

SDG No.:

Client Sample ID: AS-CONC-PIERS Lab Sample ID: 480-70101-1

Matrix: Solid Lab File ID: X00905578.D

Analysis Method: 8270D Date Collected: 10/23/2014 14:00

Extract. Method: 3550C Date Extracted: 10/27/2014 08:44

Sample wt/vol: +30.23(g) Date Analyzed: 10/29/2014 15:57

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: 6.0 GPC Cleanup:(Y/N) N

Analysis Batch No.: 210655 Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol	34	X	39-146
321-60-8	2-Fluorobiphenyl	92		37-120
367-12-4	2-Fluorophenol	72		18-120
4165-60-0	Nitrobenzene-d5	84		34-132
1718-51-0	p-Terphenyl-d14	101		65-153
4165-62-2	Phenol-d5	81		11-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973X\20141029-36818.b\X00905578.D
Lims ID: 480-70101-B-1-A Lab Sample ID: 480-70101-1
Client ID: AS-CONC-PIERS
Sample Type: Client
Inject. Date: 29-Oct-2014 15:57:30 ALS Bottle#: 17 Worklist Smp#: 21
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 480-0036818-021
Operator ID: LMW Instrument ID: HP5973X

Method: \\Bufchrom\ChromData\HP5973X\20141029-36818.b\X-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 30-Oct-2014 14:20:39 Calib Date: 16-Oct-2014 10:43:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5973X\20141016-36383.b\X00906835.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK011

First Level Reviewer: WolfL Date: 30-Oct-2014 12:54:43

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
*	1 1,4-Dichlorobenzene-d4	152	5.944	5.944	0.000	96	37917	40.0	
*	2 Naphthalene-d8	136	7.462	7.462	0.000	99	150484	40.0	
*	3 Acenaphthene-d10	164	9.540	9.540	0.000	98	82916	40.0	
*	4 Phenanthrene-d10	188	11.153	11.158	-0.005	99	150469	40.0	
*	5 Chrysene-d12	240	13.562	13.568	-0.006	99	158705	40.0	
*	6 Perylene-d12	264	14.797	14.802	-0.005	98	159801	40.0	
$	7 2-Fluorophenol	112	4.358	4.342	0.016	98	40091	36.2	
$	8 Phenol-d5	99	5.538	5.533	0.005	93	55297	40.7	
$	9 Nitrobenzene-d5	82	6.612	6.612	0.000	97	51175	41.9	
$	10 2-Fluorobiphenyl	172	8.754	8.754	0.000	100	106440	45.8	
$	11 2,4,6-Tribromophenol	330	10.443	10.443	0.000	94	6530	17.0	
$	12 p-Terphenyl-d14	244	12.649	12.649	0.000	99	135653	50.7	
	27 Benzaldehyde	77		5.416				ND	
	28 Phenol	94		5.549				ND	
	31 Bis(2-chloroethyl)ether	93		5.629				ND	
	32 2-Chlorophenol	128		5.693				ND	
	40 2-Methylphenol	108		6.276				ND	
	42 2,2'-oxybis[1-chloropropan	45		6.292				ND	
	45 Acetophenone	105		6.431				ND	
	47 N-Nitrosodi-n-propylamine	70		6.441				ND	
	46 4-Methylphenol	108		6.473				ND	
	50 Hexachloroethane	117		6.543				ND	
	52 Nitrobenzene	77		6.634				ND	
	56 Isophorone	82		6.922				ND	
	58 2-Nitrophenol	139		7.018				ND	
	59 2,4-Dimethylphenol	107		7.098				ND	
	62 Bis(2-chloroethoxy)methane	93		7.194				ND	
	65 2,4-Dichlorophenol	162		7.328				ND	
	69 Naphthalene	128		7.488				ND	
	71 4-Chloroaniline	127		7.574				ND	
	73 Hexachlorobutadiene	225		7.643				ND	
	78 Caprolactam	113		7.964				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
79 4-Chloro-3-methylphenol	107		8.183				ND	
82 2-Methylnaphthalene	142		8.311				ND	
84 Hexachlorocyclopentadiene	237		8.498				ND	
86 2,4,6-Trichlorophenol	196		8.669				ND	
87 2,4,5-Trichlorophenol	196		8.728				ND	
90 1,1'-Biphenyl	154		8.867				ND	
91 2-Chloronaphthalene	162		8.888				ND	
93 2-Nitroaniline	65		9.022				ND	
96 Dimethyl phthalate	163		9.246				ND	
99 2,6-Dinitrotoluene	165		9.315				ND	
100 Acenaphthylene	152		9.369				ND	
101 3-Nitroaniline	138		9.524				ND	
102 Acenaphthene	153		9.577				ND	
103 2,4-Dinitrophenol	184		9.652				ND	
104 4-Nitrophenol	109		9.769				ND	
107 Dibenzofuran	168		9.780				ND	
106 2,4-Dinitrotoluene	165		9.791				ND	
112 Diethyl phthalate	149		10.069				ND	
115 Fluorene	166		10.170				ND	
116 4-Chlorophenyl phenyl ethe	204		10.181				ND	
118 4-Nitroaniline	138		10.224				ND	
119 4,6-Dinitro-2-methylphenol	198		10.256				ND	
120 N-Nitrosodiphenylamine	169		10.314				ND	
130 4-Bromophenyl phenyl ether	248		10.704				ND	
131 Hexachlorobenzene	284		10.763				ND	
133 Atrazine	200		10.897				ND	
134 Pentachlorophenol	266		10.987				ND	
141 Phenanthrene	178		11.180				ND	
142 Anthracene	178		11.233				ND	
143 Carbazole	167		11.404				ND	
145 Di-n-butyl phthalate	149		11.741				ND	
152 Fluoranthene	202		12.307				ND	
155 Pyrene	202		12.510				ND	
162 Butyl benzyl phthalate	149		13.071				ND	
166 3,3'-Dichlorobenzidine	252		13.536				ND	
167 Benzo[a]anthracene	228		13.557				ND	
172 Bis(2-ethylhexyl) phthalat	149		13.562				ND	
169 Chrysene	228		13.589				ND	
168 Di-n-octyl phthalate	149		14.097				ND	
174 Benzo[b]fluoranthene	252		14.460				ND	
175 Benzo[k]fluoranthene	252		14.481				ND	
177 Benzo[a]pyrene	252		14.748				ND	
180 Indeno[1,2,3-cd]pyrene	276		15.849				ND	
181 Dibenz(a,h)anthracene	278		15.854				ND	
182 Benzo[g,h,i]perylene	276		16.153				ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

MB_INTSTD_STK_00009 Amount Added: 20.00 Units: uL Run Reagent

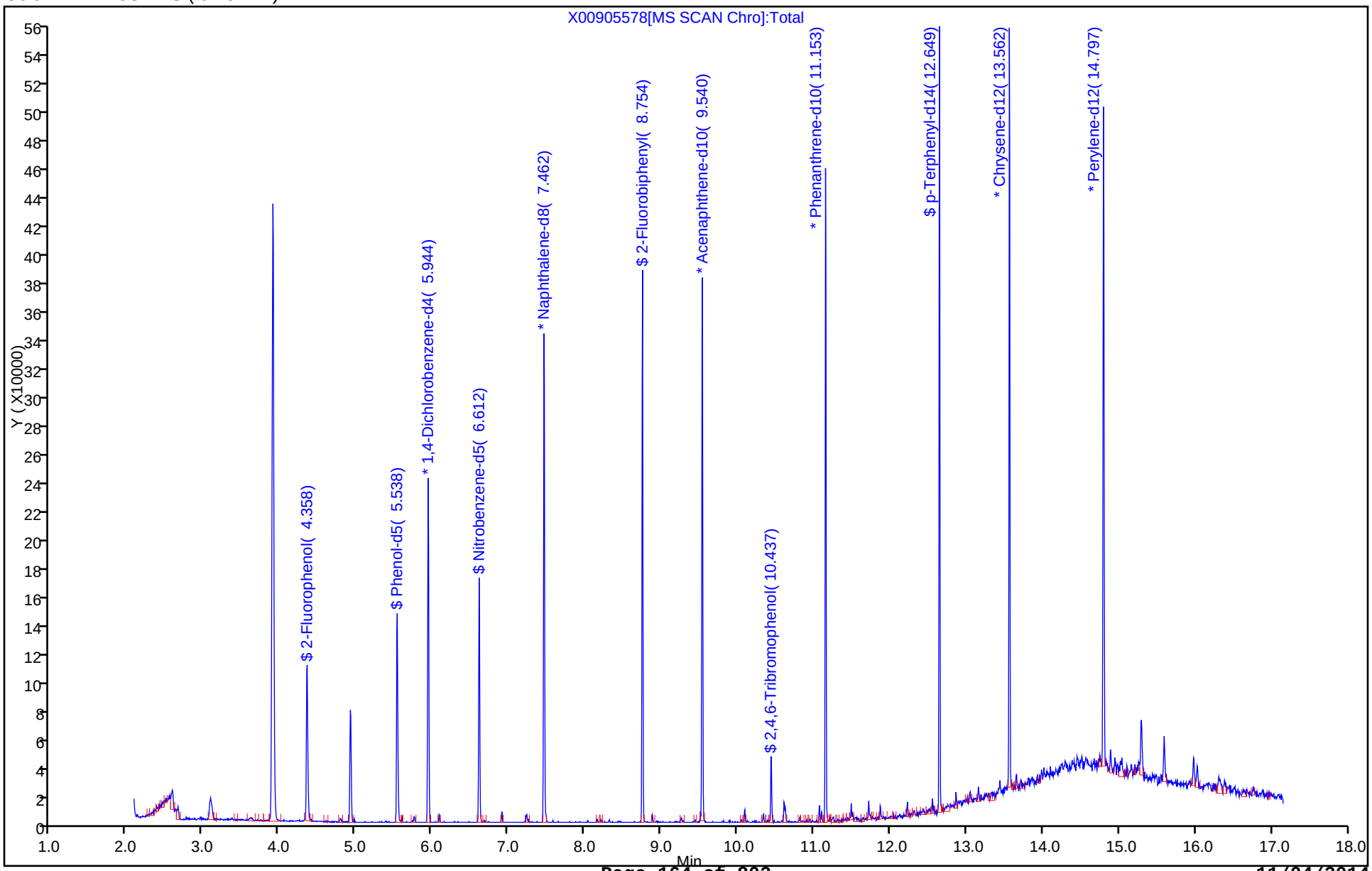
Report Date: 30-Oct-2014 14:21:01 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973X\20141029-36818.b\X00905578.D

Injection Date:	29-Oct-2014 15:57:30	Instrument ID:	HP5973X	Operator ID:	LMW
Lims ID:	480-70101-B-1-A	Lab Sample ID:	480-70101-1	Worklist Smp#:	21
Client ID:	AS-CONC-PIERS				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	17
Method:	X-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-70101-1

SDG No.:

Client Sample ID: AS-CONC-OUTLET | Lab Sample ID: 480-70101-2

Matrix: Solid | Lab File ID: X00905579.D

Analysis Method: 8270D | Date Collected: 10/23/2014 14:30

Extract. Method: 3550C | Date Extracted: 10/27/2014 08:44

Sample wt/vol: +30.46(g) | Date Analyzed: 10/29/2014 16:20

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 2.8 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 210655 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	Biphenyl	ND		170	25
108-60-1	bis (2-chloroisopropyl) ether	ND		170	34
95-95-4	2,4,5-Trichlorophenol	ND		170	47
88-06-2	2,4,6-Trichlorophenol	ND		170	34
120-83-2	2,4-Dichlorophenol	ND		170	18
105-67-9	2,4-Dimethylphenol	ND		170	42
51-28-5	2,4-Dinitrophenol	ND		330	100
121-14-2	2,4-Dinitrotoluene	ND		170	35
606-20-2	2,6-Dinitrotoluene	ND		170	20
91-58-7	2-Chloronaphthalene	ND		170	28
95-57-8	2-Chlorophenol	ND		170	31
91-57-6	2-Methylnaphthalene	ND		170	34
95-48-7	2-Methylphenol	ND		170	20
88-74-4	2-Nitroaniline	ND		330	25
88-75-5	2-Nitrophenol	ND		170	49
91-94-1	3,3'-Dichlorobenzidine	ND		330	200
99-09-2	3-Nitroaniline	ND		330	48
534-52-1	4,6-Dinitro-2-methylphenol	ND		330	170
101-55-3	4-Bromophenyl phenyl ether	ND		170	24
59-50-7	4-Chloro-3-methylphenol	ND		170	43
106-47-8	4-Chloroaniline	ND		170	43
7005-72-3	4-Chlorophenyl phenyl ether	ND		170	21
106-44-5	4-Methylphenol	ND		330	20
100-01-6	4-Nitroaniline	ND		330	90
100-02-7	4-Nitrophenol	ND		330	120
83-32-9	Acenaphthene	ND		170	25
208-96-8	Acenaphthylene	ND		170	22
98-86-2	Acetophenone	ND		170	23
120-12-7	Anthracene	ND		170	43
1912-24-9	Atrazine	ND		170	60
100-52-7	Benzaldehyde	ND		170	140
56-55-3	Benzo(a)anthracene	ND		170	17
50-32-8	Benzo(a)pyrene	ND		170	25
205-99-2	Benzo(b)fluoranthene	40	J	170	27

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-70101-1

SDG No.:

Client Sample ID: AS-CONC-OUTLET | Lab Sample ID: 480-70101-2

Matrix: Solid | Lab File ID: X00905579.D

Analysis Method: 8270D | Date Collected: 10/23/2014 14:30

Extract. Method: 3550C | Date Extracted: 10/27/2014 08:44

Sample wt/vol: +30.46(g) | Date Analyzed: 10/29/2014 16:20

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 2.8 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 210655 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
191-24-2	Benzo(g,h,i)perylene	ND		170	18
207-08-9	Benzo(k)fluoranthene	ND		170	22
111-91-1	Bis(2-chloroethoxy)methane	ND		170	36
111-44-4	Bis(2-chloroethyl)ether	ND		170	22
117-81-7	Bis(2-ethylhexyl) phthalate	ND		170	59
85-68-7	Butyl benzyl phthalate	ND		170	28
105-60-2	Caprolactam	ND	*	170	52
86-74-8	Carbazole	ND		170	20
218-01-9	Chrysene	ND		170	39
84-74-2	Di-n-butyl phthalate	ND		170	29
117-84-0	Di-n-octyl phthalate	ND		170	20
53-70-3	Dibenz(a,h)anthracene	ND		170	30
132-64-9	Dibenzofuran	ND		170	20
84-66-2	Diethyl phthalate	ND		170	22
131-11-3	Dimethyl phthalate	ND		170	20
206-44-0	Fluoranthene	ND		170	18
86-73-7	Fluorene	ND		170	20
118-74-1	Hexachlorobenzene	ND		170	23
87-68-3	Hexachlorobutadiene	ND		170	25
77-47-4	Hexachlorocyclopentadiene	ND		170	23
67-72-1	Hexachloroethane	ND		170	22
193-39-5	Indeno(1,2,3-cd)pyrene	ND		170	21
78-59-1	Isophorone	ND		170	36
621-64-7	N-Nitrosodi-n-propylamine	ND		170	29
86-30-6	N-Nitrosodiphenylamine	ND		170	140
91-20-3	Naphthalene	ND		170	22
98-95-3	Nitrobenzene	ND		170	19
87-86-5	Pentachlorophenol	ND		330	170
85-01-8	Phenanthrene	ND		170	25
108-95-2	Phenol	ND		170	26
129-00-0	Pyrene	ND		170	20

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-70101-1

SDG No.:

Client Sample ID: AS-CONC-OUTLET | Lab Sample ID: 480-70101-2

Matrix: Solid | Lab File ID: X00905579.D

Analysis Method: 8270D | Date Collected: 10/23/2014 14:30

Extract. Method: 3550C | Date Extracted: 10/27/2014 08:44

Sample wt/vol: +30.46(g) | Date Analyzed: 10/29/2014 16:20

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 2.8 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 210655 | Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol	85		39-146
321-60-8	2-Fluorobiphenyl	93		37-120
367-12-4	2-Fluorophenol	81		18-120
4165-60-0	Nitrobenzene-d5	82		34-132
1718-51-0	p-Terphenyl-d14	103		65-153
4165-62-2	Phenol-d5	81		11-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973X\20141029-36818.b\X00905579.D
Lims ID: 480-70101-B-2-A Lab Sample ID: 480-70101-2
Client ID: AS-CONC-OUTLET
Sample Type: Client
Inject. Date: 29-Oct-2014 16:20:30 ALS Bottle#: 18 Worklist Smp#: 22
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 480-0036818-022
Operator ID: LMW Instrument ID: HP5973X

Method: \\Bufchrom\ChromData\HP5973X\20141029-36818.b\X-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 30-Oct-2014 14:20:39 Calib Date: 16-Oct-2014 10:43:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5973X\20141016-36383.b\X00906835.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK011

First Level Reviewer: WolfL Date: 30-Oct-2014 12:56:07

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.944	5.944	0.000	96	39208	40.0	
* 2 Naphthalene-d8	136	7.462	7.462	0.000	98	151117	40.0	
* 3 Acenaphthene-d10	164	9.534	9.540	-0.006	97	82688	40.0	
* 4 Phenanthrene-d10	188	11.153	11.158	-0.005	99	149808	40.0	
* 5 Chrysene-d12	240	13.562	13.568	-0.006	99	162202	40.0	
* 6 Perylene-d12	264	14.797	14.802	-0.005	99	159238	40.0	
$ 7 2-Fluorophenol	112	4.358	4.342	0.016	97	46286	40.4	
$ 8 Phenol-d5	99	5.533	5.533	0.000	94	56824	40.4	
$ 9 Nitrobenzene-d5	82	6.607	6.612	-0.005	96	50053	40.9	
$ 10 2-Fluorobiphenyl	172	8.749	8.754	-0.005	99	108273	46.7	
$ 11 2,4,6-Tribromophenol	330	10.437	10.443	-0.006	94	16308	42.6	
$ 12 p-Terphenyl-d14	244	12.644	12.649	-0.005	98	141381	51.7	
27 Benzaldehyde	77		5.416				ND	
28 Phenol	94		5.549				ND	
31 Bis(2-chloroethyl)ether	93		5.629				ND	
32 2-Chlorophenol	128		5.693				ND	
40 2-Methylphenol	108		6.276				ND	
42 2,2'-oxybis[1-chloropropan	45		6.292				ND	
45 Acetophenone	105		6.431				ND	
47 N-Nitrosodi-n-propylamine	70		6.441				ND	
46 4-Methylphenol	108		6.473				ND	
50 Hexachloroethane	117		6.543				ND	
52 Nitrobenzene	77		6.634				ND	
56 Isophorone	82		6.922				ND	
58 2-Nitrophenol	139		7.018				ND	
59 2,4-Dimethylphenol	107		7.098				ND	
62 Bis(2-chloroethoxy)methane	93		7.194				ND	
65 2,4-Dichlorophenol	162		7.328				ND	
69 Naphthalene	128		7.488				ND	
71 4-Chloroaniline	127		7.574				ND	
73 Hexachlorobutadiene	225		7.643				ND	
78 Caprolactam	113		7.964				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
79 4-Chloro-3-methylphenol	107		8.183				ND	
82 2-Methylnaphthalene	142		8.311				ND	
84 Hexachlorocyclopentadiene	237		8.498				ND	
86 2,4,6-Trichlorophenol	196		8.669				ND	
87 2,4,5-Trichlorophenol	196		8.728				ND	
90 1,1'-Biphenyl	154		8.867				ND	
91 2-Chloronaphthalene	162		8.888				ND	
93 2-Nitroaniline	65		9.022				ND	
96 Dimethyl phthalate	163		9.246				ND	
99 2,6-Dinitrotoluene	165		9.315				ND	
100 Acenaphthylene	152		9.369				ND	
101 3-Nitroaniline	138		9.524				ND	
102 Acenaphthene	153		9.577				ND	
103 2,4-Dinitrophenol	184		9.652				ND	
104 4-Nitrophenol	109		9.769				ND	
107 Dibenzofuran	168		9.780				ND	
106 2,4-Dinitrotoluene	165		9.791				ND	
112 Diethyl phthalate	149		10.069				ND	
115 Fluorene	166		10.170				ND	
116 4-Chlorophenyl phenyl ethe	204		10.181				ND	
118 4-Nitroaniline	138		10.224				ND	
119 4,6-Dinitro-2-methylphenol	198		10.256				ND	
120 N-Nitrosodiphenylamine	169		10.314				ND	
130 4-Bromophenyl phenyl ether	248		10.704				ND	
131 Hexachlorobenzene	284		10.763				ND	
133 Atrazine	200		10.897				ND	
134 Pentachlorophenol	266		10.987				ND	
141 Phenanthrene	178		11.180				ND	
142 Anthracene	178		11.233				ND	
143 Carbazole	167		11.404				ND	
145 Di-n-butyl phthalate	149		11.741				ND	
152 Fluoranthene	202		12.307				ND	
155 Pyrene	202		12.510				ND	
162 Butyl benzyl phthalate	149		13.071				ND	
166 3,3'-Dichlorobenzidine	252		13.536				ND	
167 Benzo[a]anthracene	228		13.557				ND	
172 Bis(2-ethylhexyl) phthalat	149		13.562				ND	
169 Chrysene	228		13.589				ND	
168 Di-n-octyl phthalate	149		14.097				ND	
174 Benzo[b]fluoranthene	252	14.460	14.460	0.000	93	4771	1.20	M
175 Benzo[k]fluoranthene	252	14.481	14.481	0.000	95	1552	0.3757	M
177 Benzo[a]pyrene	252	14.695	14.748	-0.053	93	2312	0.6165	
180 Indeno[1,2,3-cd]pyrene	276		15.849				ND	
181 Dibenz(a,h)anthracene	278		15.854				ND	
182 Benzo[g,h,i]perylene	276		16.153				ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

MB_INTSTD_STK_00009 Amount Added: 20.00 Units: uL Run Reagent

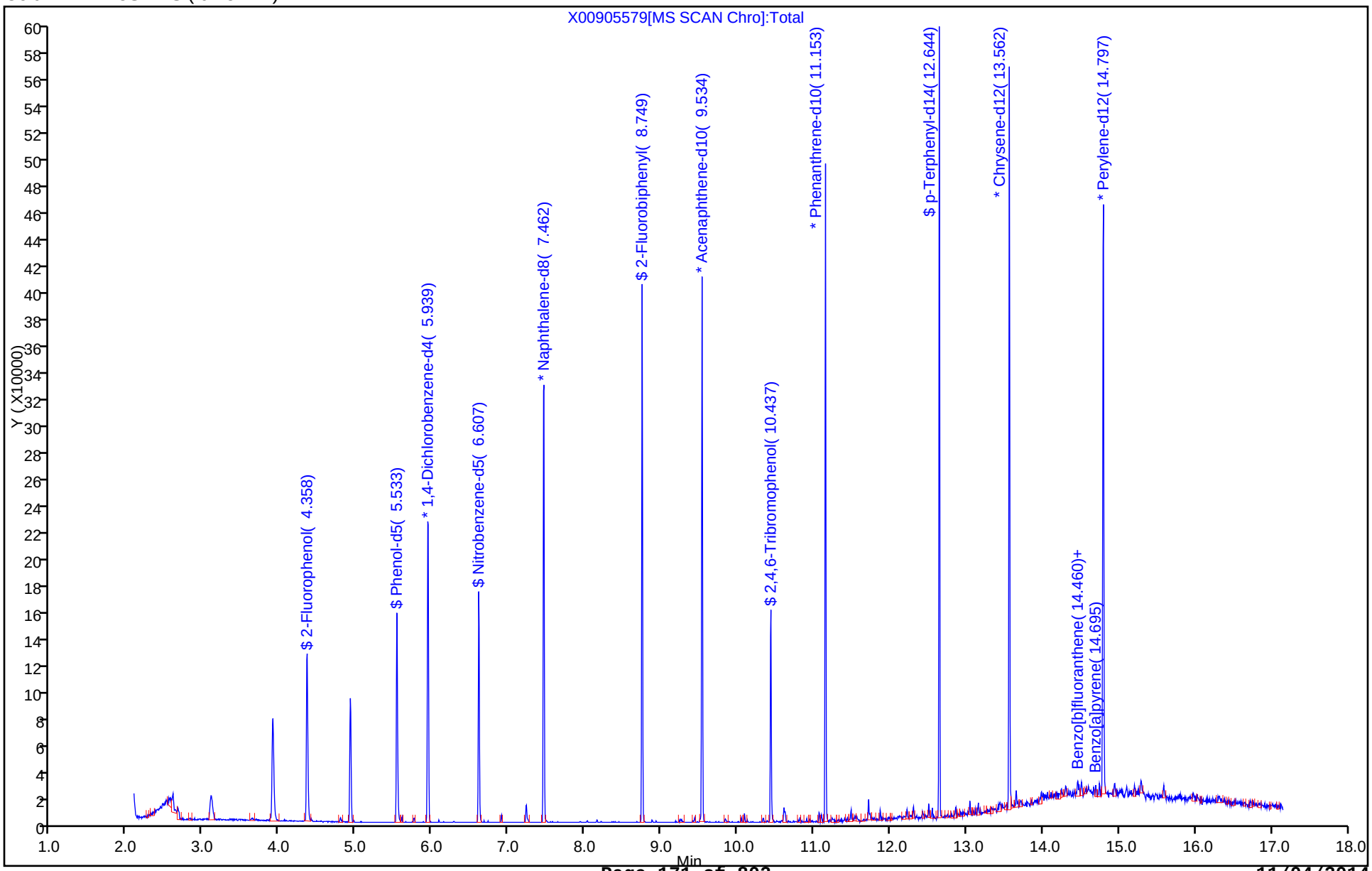
Report Date: 30-Oct-2014 14:21:01 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973X\20141029-36818.b\X00905579.D

Injection Date:	29-Oct-2014 16:20:30	Instrument ID:	HP5973X	Operator ID:	LMW
Lims ID:	480-70101-B-2-A	Lab Sample ID:	480-70101-2	Worklist Smp#:	22
Client ID:	AS-CONC-OUTLET				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	18
Method:	X-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



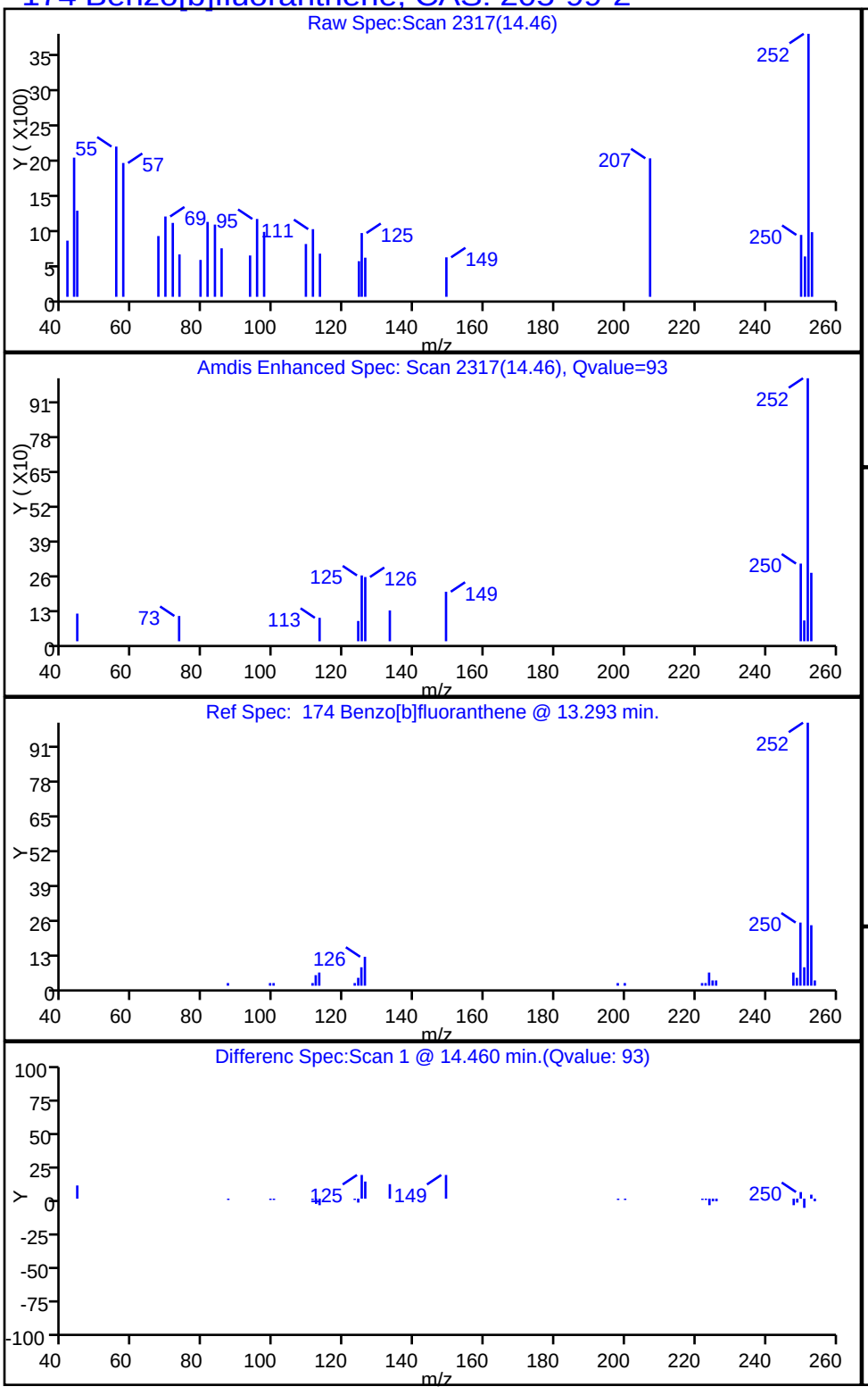
Report Date: 30-Oct-2014 14:21:01 Chrom Revision: 2.2 07-Oct-2014 12:16:06

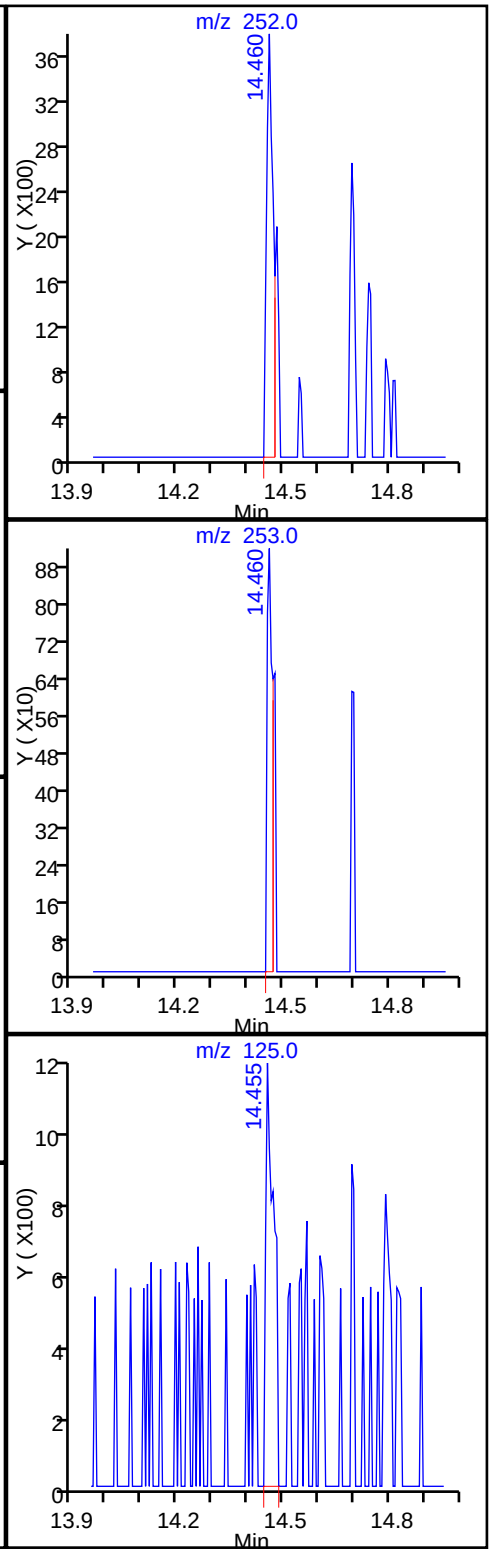
TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973X\20141029-36818.b\X00905579.D

Injection Date:	29-Oct-2014 16:20:30	Instrument ID:	HP5973X		
Lims ID:	480-70101-B-2-A	Lab Sample ID:	480-70101-2		
Client ID:	AS-CONC-OUTLET				
Operator ID:	LMW	ALS Bottle#:	18	Worklist Smp#:	22
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	X-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

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





Manual Integration/User Assign Peak Report

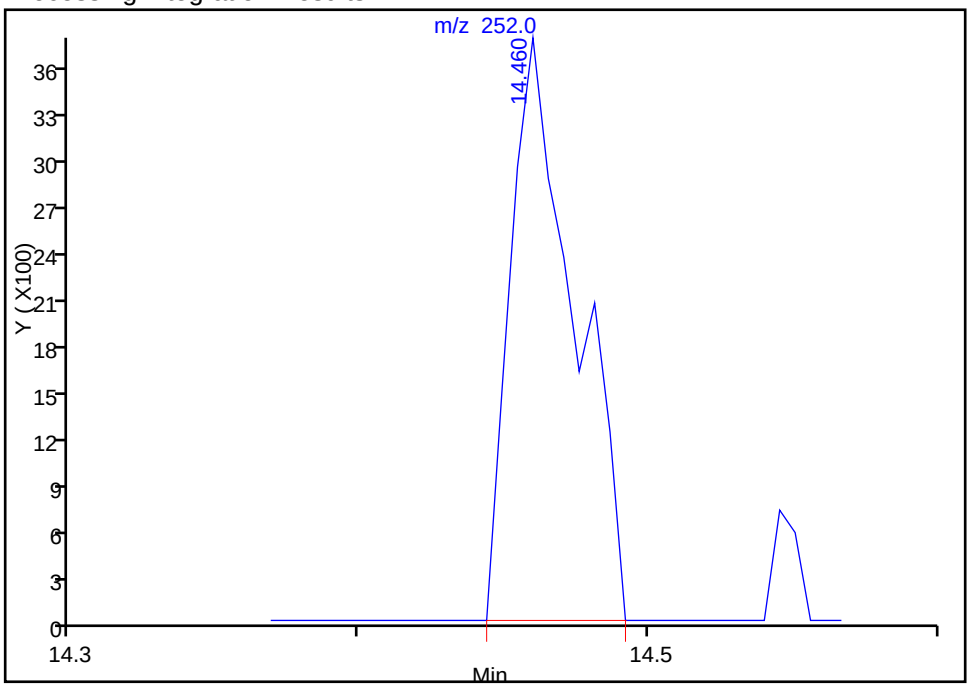
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20141029-36818.b\X00905579.D				
Injection Date:	29-Oct-2014 16:20:30	Instrument ID:	HP5973X		
Lims ID:	480-70101-B-2-A	Lab Sample ID:	480-70101-2		
Client ID:	AS-CONC-OUTLET				
Operator ID:	LMW	ALS Bottle#:	18	Worklist Smp#:	22
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	X-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

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

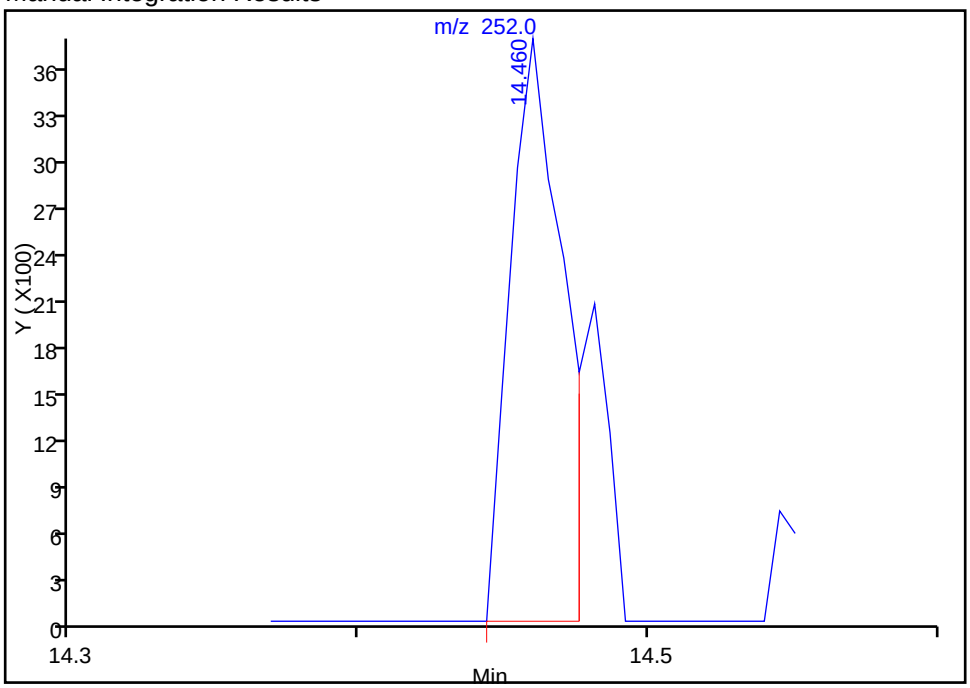
Processing Integration Results

RT: 14.46
Response: 5812
Amount: 1.460593



Manual Integration Results

RT: 14.46
Response: 4771
Amount: 1.198983



Reviewer: WolfL, 30-Oct-2014 12:56:07
Audit Action: Split an Integrated Peak
Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

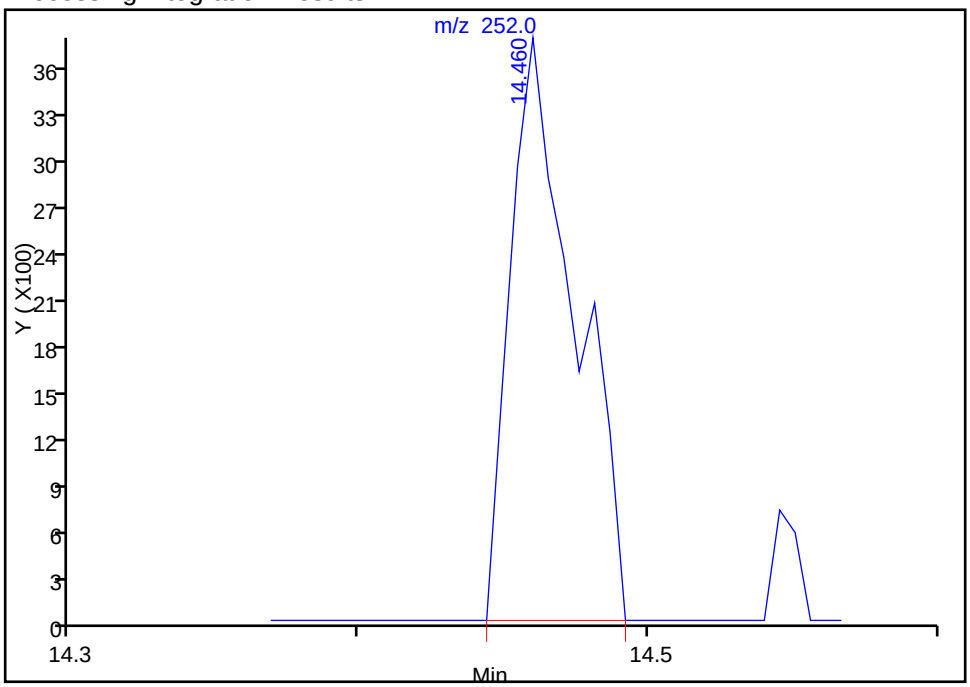
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5973X\20141029-36818.b\X00905579.D				
Injection Date:	29-Oct-2014 16:20:30	Instrument ID:	HP5973X		
Lims ID:	480-70101-B-2-A	Lab Sample ID:	480-70101-2		
Client ID:	AS-CONC-OUTLET				
Operator ID:	LMW	ALS Bottle#:	18	Worklist Smp#:	22
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	X-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

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

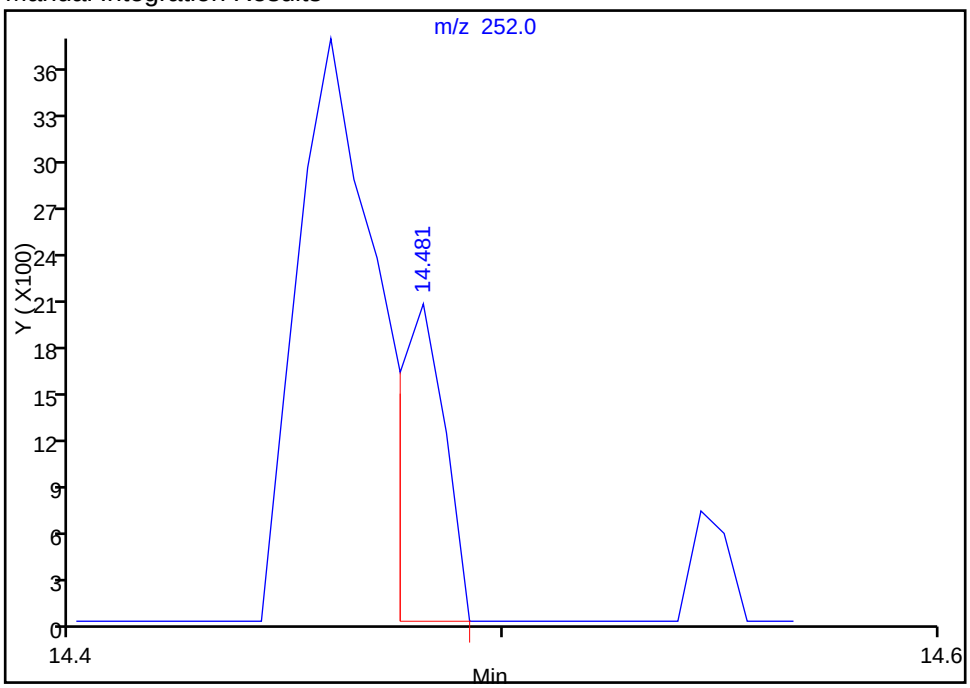
Processing Integration Results

RT: 14.46
Response: 5812
Amount: 1.407013



Manual Integration Results

RT: 14.48
Response: 1552
Amount: 0.375720



Reviewer: WolfL, 30-Oct-2014 12:56:07
Audit Action: Split an Integrated Peak
Audit Reason: Split Peak

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

Lab Name: TestAmerica Buffalo Job No.: 480-70101-1 Analy Batch No.: 208059

SDG No.:

Instrument ID: HP5973X GC Column: RXI-5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/16/2014 08:43 Calibration End Date: 10/16/2014 10:43 Calibration ID: 20708

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-208059/3	X00906830.D
Level 2	ICIS 480-208059/4	X00906831.D
Level 3	IC 480-208059/5	X00906832.D
Level 4	IC 480-208059/6	X00906833.D
Level 5	IC 480-208059/7	X00906834.D
Level 6	IC 480-208059/8	X00906835.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,4-Dioxane	0.5409 0.4204	0.4426	0.4422	0.4363	0.4465	Ave		0.4548				9.5		20.0			
N-Nitrosodimethylamine	0.8116 0.6804	0.6947	0.6877	0.6891	0.7143	Ave		0.7130				7.0		20.0			
Pyridine	1.1067 1.1045	1.1222	1.1193	1.1179	1.1617	Ave		1.1220				1.8		20.0			
Benzaldehyde	0.9902 0.5136	0.8870	0.8306	0.7489	0.6337	Qua	-0.341	0.9873	-0.002941		0.0100				1.0000		0.9900
Aniline	2.1098 1.8018	1.8530	1.7959	1.7649	1.8867	Ave		1.8687				6.7		20.0			
Phenol	1.8231 1.5448	1.5216	1.5253	1.5125	1.6107	Ave		1.5897			0.8000	7.5		20.0			
Bis(2-chloroethyl)ether	1.2852 1.1049	1.1613	1.1073	1.0874	1.1591	Ave		1.1509			0.7000	6.3		20.0			
2-Chlorophenol	1.3725 1.2330	1.2693	1.2521	1.2241	1.2979	Ave		1.2748			0.8000	4.3		20.0			
n-Decane	1.9362 1.4900	1.5975	1.5760	1.5109	1.5778	Ave		1.6147			0.0100	10.0		20.0			
1,3-Dichlorobenzene	1.6717 1.3288	1.4105	1.3613	1.3358	1.4111	Ave		1.4199				9.0		20.0			
1,4-Dichlorobenzene	1.7087 1.3534	1.4313	1.3768	1.3405	1.4234	Ave		1.4390				9.5		20.0			
Benzyl alcohol	0.8250 0.8066	0.7703	0.8015	0.7799	0.8484	Ave		0.8053				3.6		20.0			
1,2-Dichlorobenzene	1.5735 1.2758	1.3576	1.2926	1.2609	1.3547	Ave		1.3525				8.5		20.0			
Indene	0.5487 0.4823	0.5038	0.4785	0.4851	0.4986	Ave		0.4995				5.2		20.0			
2-Methylphenol	1.2273 1.0856	1.0619	1.0920	1.0738	1.1394	Ave		1.1133			0.7000	5.6		20.0			

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

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

Lab Name: TestAmerica Buffalo Job No.: 480-70101-1 Analy Batch No.: 208059

SDG No.:

Instrument ID: HP5973X GC Column: RXI-5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/16/2014 08:43 Calibration End Date: 10/16/2014 10:43 Calibration ID: 20708

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
bis (2-chloroisopropyl) ether	2.4507 1.8024	2.0241	1.9465	1.8709	1.9409	Ave		2.0059			0.0100	11.0		20.0			
Acetophenone	1.9861 1.6682	1.7150	1.6338	1.6361	1.7363	Ave		1.7293			0.0100	7.7		20.0			
N-Nitrosodi-n-propylamine	0.9530 0.8214	0.8338	0.8265	0.7972	0.8743	Ave		0.8510			0.5000	6.6		20.0			
4-Methylphenol	1.2100 1.1250	1.1205	1.1479	1.1194	1.1936	Ave		1.1527			0.6000	3.4		20.0			
Hexachloroethane	0.6924 0.5540	0.5590	0.5482	0.5456	0.5799	Ave		0.5798			0.3000	9.7		20.0			
Nitrobenzene	0.3383 0.3112	0.3160	0.3097	0.3006	0.3211	Ave		0.3162			0.2000	4.1		20.0			
Isophorone	0.6440 0.5599	0.5773	0.5607	0.5427	0.5716	Ave		0.5760			0.4000	6.1		20.0			
2-Nitrophenol	0.1792 0.1735	0.1766	0.1725	0.1682	0.1786	Ave		0.1748			0.1000	2.4		20.0			
2,4-Dimethylphenol	0.3659 0.3281	0.3298	0.3200	0.3132	0.3323	Ave		0.3316			0.2000	5.5		20.0			
Bis(2-chloroethoxy)methane	0.3690 0.3317	0.3391	0.3324	0.3209	0.3410	Ave		0.3390			0.3000	4.8		20.0			
Benzoic acid	 0.2352	0.1480	0.2011	0.2078	0.2288	Lin1	-2.069	0.2443							0.9990		0.9900
2,4-Dichlorophenol	0.2744 0.2497	0.2477	0.2503	0.2437	0.2570	Ave		0.2538			0.2000	4.3		20.0			
1,2,4-Trichlorobenzene	0.3544 0.2862	0.2972	0.2853	0.2762	0.2894	Ave		0.2981				9.5		20.0			
Naphthalene	1.0587 0.8473	0.9236	0.8819	0.8517	0.8841	Ave		0.9079			0.7000	8.7		20.0			
4-Chloroaniline	0.4231 0.3795	0.3795	0.3787	0.3656	0.3933	Ave		0.3866			0.0100	5.1		20.0			
Hexachlorobutadiene	0.2031 0.1747	0.1751	0.1689	0.1700	0.1759	Ave		0.1780			0.0100	7.1		20.0			
Caprolactam	0.1037 0.0475	0.0621	0.0520	0.0454	0.0472	Lin1	0.3022	0.0447			0.0100				0.9980		0.9900
4-Chloro-3-methylphenol	0.2909 0.2821	0.2831	0.2780	0.2742	0.2939	Ave		0.2837			0.2000	2.6		20.0			
2-Methylnaphthalene	0.7237 0.5795	0.6215	0.5921	0.5733	0.5991	Ave		0.6148			0.4000	9.1		20.0			
1-Methylnaphthalene	0.6697 0.5474	0.5752	0.5527	0.5359	0.5668	Ave		0.5746			0.0100	8.5		20.0			

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

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

Lab Name: TestAmerica Buffalo Job No.: 480-70101-1 Analy Batch No.: 208059

SDG No.:

Instrument ID: HP5973X GC Column: RXI-5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/16/2014 08:43 Calibration End Date: 10/16/2014 10:43 Calibration ID: 20708

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Hexachlorocyclopentadiene	0.1438 0.3194	0.2212	0.2686	0.2913	0.3117	Lin1	-1.131	0.3153			0.0500				0.9970		0.9900
1,2,4,5-Tetrachlorobenzene	0.5324 0.4710	0.4910	0.4584	0.4646	0.4838	Ave		0.4835			0.0100	5.5		20.0			
2,4,6-Trichlorophenol	0.3504 0.3327	0.3154	0.3157	0.3130	0.3367	Ave		0.3273			0.2000	4.6		20.0			
2,4,5-Trichlorophenol	0.2993 0.3483	0.3441	0.3309	0.3413	0.3575	Ave		0.3369			0.2000	6.0		20.0			
Biphenyl	1.4630 1.2001	1.3142	1.2343	1.2178	1.2508	Ave		1.2800			0.0100	7.6		20.0			
2-Chloronaphthalene	1.0958 0.9486	1.0188	0.9489	0.9459	0.9752	Ave		0.9889			0.8000	6.0		20.0			
2-Nitroaniline	0.3099 0.3441	0.3345	0.3343	0.3378	0.3461	Ave		0.3344			0.0100	3.9		20.0			
Dimethyl phthalate	1.3684 1.1421	1.2136	1.1599	1.1433	1.1797	Ave		1.2012			0.0100	7.2		20.0			
1,3-Dinitrobenzene	0.1036 0.1159	0.1129	0.1147	0.1106	0.1193	Ave		0.1128				4.8		20.0			
2,6-Dinitrotoluene	0.2704 0.2725	0.2884	0.2712	0.2688	0.2804	Ave		0.2753				2.8		20.0			
Acenaphthylene	1.7435 1.4989	1.6422	1.5382	1.4962	1.5525	Ave		1.5786			0.9000	6.1		20.0			
3-Nitroaniline	0.2965 0.3156	0.3123	0.3001	0.3095	0.3238	Ave		0.3096			0.0100	3.3		20.0			
Acenaphthene	1.1605 0.9729	1.0281	0.9807	0.9705	0.9963	Ave		1.0182			0.9000	7.2		20.0			
2,4-Dinitrophenol	0.1006 0.1965	0.1479	0.1737	0.1857	0.1958	Lin1	-1.213	0.1967			0.0100				0.9980		0.9900
4-Nitrophenol	0.1255 0.2399	0.2039	0.2162	0.2246	0.2404	Lin1	-1.295	0.2405			0.0100				0.9990		0.9900
Dibenzofuran	1.6428 1.3400	1.4562	1.3749	1.3485	1.3800	Ave		1.4238			0.8000	8.1		20.0			
2,4-Dinitrotoluene	0.3899 0.3814	0.3868	0.3780	0.3693	0.3916	Ave		0.3828			0.2000	2.2		20.0			
2,3,4,6-Tetrachlorophenol	0.2347 0.2777	0.2566	0.2611	0.2653	0.2786	Ave		0.2623			0.0100	6.2		20.0			
Diethyl phthalate	1.3922 1.2472	1.3129	1.2505	1.2171	1.2702	Ave		1.2817			0.0100	4.9		20.0			
Hexadecane	0.9956 0.8048	0.9041	0.8538	0.8251	0.8538	Ave		0.8729			0.0100	7.9		20.0			

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

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

Lab Name: TestAmerica Buffalo Job No.: 480-70101-1 Analy Batch No.: 208059

SDG No.:

Instrument ID: HP5973X GC Column: RXI-5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/16/2014 08:43 Calibration End Date: 10/16/2014 10:43 Calibration ID: 20708

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Fluorene	1.2909 1.0681	1.1493	1.0719	1.0486	1.0977	Ave		1.1211			0.9000	8.0		20.0			
4-Chlorophenyl phenyl ether	0.6635 0.5520	0.5752	0.5385	0.5327	0.5700	Ave		0.5720			0.4000	8.4		20.0			
4-Nitroaniline	0.2594 0.3102	0.3202	0.2928	0.3000	0.3108	Ave		0.2989			0.0100	7.2		20.0			
4,6-Dinitro-2-methylphenol	0.1152 0.1374	0.1287	0.1290	0.1343	0.1410	Ave		0.1309			0.0100	6.9		20.0			
N-Nitrosodiphenylamine	0.4997 0.4367	0.4600	0.4473	0.4353	0.4571	Ave		0.4560			0.0100	5.2		20.0			
1,2-Diphenylhydrazine	1.3428 1.1617	1.2269	1.1823	1.1475	1.1985	Ave		1.2099				5.9		20.0			
trans-Azobenzene	0.7392 0.6409	0.6665	0.6507	0.6373	0.6711	Ave		0.6676				5.6		20.0			
4-Bromophenyl phenyl ether	0.1965 0.1815	0.1835	0.1729	0.1719	0.1855	Ave		0.1820			0.1000	5.0		20.0			
Hexachlorobenzene	0.2421 0.2067	0.2154	0.1968	0.1970	0.2102	Ave		0.2114			0.1000	7.9		20.0			
Atrazine	0.3936 0.3236	0.3547	0.3409	0.3332	0.3431	Ave		0.3482			0.0100	7.0		20.0			
Pentachlorophenol	0.0799 0.1341	0.1045	0.1174	0.1236	0.1340	Lin1	-0.708	0.1331			0.0500				0.9980		0.9900
n-Octadecane	0.5755 0.4693	0.5178	0.4949	0.4773	0.4955	Ave		0.5051			0.0100	7.6		20.0			
Phenanthrene	1.1248 0.8974	0.9834	0.9124	0.8943	0.9504	Ave		0.9605			0.7000	9.1		20.0			
Anthracene	1.1293 0.9268	1.0213	0.9554	0.9304	0.9791	Ave		0.9904			0.7000	7.7		20.0			
Carbazole	0.9579 0.8179	0.8923	0.8459	0.8156	0.8622	Ave		0.8653			0.0100	6.2		20.0			
Di-n-butyl phthalate	1.3180 1.0917	1.2253	1.1619	1.1215	1.1634	Ave		1.1803			0.0100	6.9		20.0			
Fluoranthene	1.1495 0.9927	1.0509	1.0199	0.9824	1.0356	Ave		1.0385			0.6000	5.8		20.0			
Benzidine	0.5211 0.3849	0.5883	0.5729	0.5317	0.4645	Ave		0.5105				15.0		20.0			
Pyrene	1.1400 0.8884	1.0080	0.9472	0.9234	0.9375	Ave		0.9741			0.6000	9.3		20.0			
Butyl benzyl phthalate	0.5880 0.4833	0.5366	0.5068	0.4996	0.5116	Ave		0.5210			0.0100	7.1		20.0			

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

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

Lab Name: TestAmerica Buffalo Job No.: 480-70101-1 Analy Batch No.: 208059

SDG No.:

Instrument ID: HP5973X GC Column: RXI-5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/16/2014 08:43 Calibration End Date: 10/16/2014 10:43 Calibration ID: 20708

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
3,3'-Dichlorobenzidine	0.4042 0.3439	0.3957	0.3814	0.3765	0.3723	Ave		0.3790			0.0100	5.5		20.0			
Benzo(a)anthracene	1.1230 0.9101	0.9718	0.9313	0.9293	0.9465	Ave		0.9687			0.8000	8.1		20.0			
Bis(2-ethylhexyl) phthalate	0.8693 0.6929	0.7733	0.7323	0.7348	0.7386	Ave		0.7569			0.0100	8.0		20.0			
Chrysene	1.0618 0.8249	0.9292	0.8511	0.8603	0.8644	Ave		0.8986			0.7000	9.7		20.0			
Di-n-octyl phthalate	1.5312 1.1251	1.3304	1.2533	1.2167	1.2265	Ave		1.2805			0.0100	11.0		20.0			
Benzo(b)fluoranthene	1.1344 0.9860	0.9304	0.9795	1.0029	0.9642	Ave		0.9996			0.7000	7.0		20.0			
Benzo(k)fluoranthene	1.1822 0.9555	1.1330	0.9603	0.9212	1.0735	Ave		1.0376			0.7000	10.0		20.0			
Benzo(a)pyrene	1.0350 0.9122	0.9649	0.9050	0.8936	0.9417	Ave		0.9421			0.7000	5.6		20.0			
Indeno(1,2,3-cd)pyrene	1.1037 1.1493	1.0185	0.9941	1.0579	1.1440	Ave		1.0779			0.5000	6.0		20.0			
Dibenz(a,h)anthracene	0.8846 0.9445	0.8444	0.8444	0.9057	0.9776	Ave		0.9002				6.0		20.0			
Benzo(g,h,i)perylene	0.9513 0.9278	0.8561	0.7981	0.8647	0.9129	Ave		0.8852			0.5000	6.4		20.0			
2-Fluorophenol	1.2899 1.1331	1.1487	1.1236	1.1259	1.1893	Ave		1.1684				5.5		20.0			
Phenol-d5	1.5770 1.4053	1.4058	1.3917	1.3649	1.4605	Ave		1.4342				5.3		20.0			
Nitrobenzene-d5	0.3385 0.3239	0.3232	0.3196	0.3107	0.3300	Ave		0.3243				2.9		20.0			
2-Fluorobiphenyl	1.2337 1.0741	1.1398	1.0890	1.0733	1.1134	Ave		1.1206				5.4		20.0			
2,4,6-Tribromophenol	0.0998 0.1055	0.0990	0.0994	0.1006	0.1086	Ave		0.1022				3.9		20.0			
p-Terphenyl-d14	0.7666 0.6345	0.6842	0.6540	0.6454	0.6641	Ave		0.6748				7.1		20.0			

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

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

Lab Name: TestAmerica Buffalo Job No.: 480-70101-1 Analy Batch No.: 208059

SDG No.:

Instrument ID: HP5973X GC Column: RXI-5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/16/2014 08:43 Calibration End Date: 10/16/2014 10:43 Calibration ID: 20708

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-208059/3	X00906830.D
Level 2	ICIS 480-208059/4	X00906831.D
Level 3	IC 480-208059/5	X00906832.D
Level 4	IC 480-208059/6	X00906833.D
Level 5	IC 480-208059/7	X00906834.D
Level 6	IC 480-208059/8	X00906835.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
1,4-Dioxane	DCB	Ave	3792 113571	14885	39375	74951	85930	5.00 160	20.0	50.0	80.0	120
N-Nitrosodimethylamine	DCB	Ave	5690 183818	23363	61231	118365	137451	5.00 160	20.0	50.0	80.0	120
Pyridine	DCB	Ave	7759 298389	37741	99660	192023	223551	5.00 160	20.0	50.0	80.0	120
Benzaldehyde	DCB	Qua	6942 138760	29832	73955	128632	121944	5.00 160	20.0	50.0	80.0	120
Aniline	DCB	Ave	14791 486760	62322	159910	303166	363080	5.00 160	20.0	50.0	80.0	120
Phenol	DCB	Ave	12781 417327	51174	135819	259807	309963	5.00 160	20.0	50.0	80.0	120
Bis(2-chloroethyl)ether	DCB	Ave	9010 298496	39056	98593	186779	223064	5.00 160	20.0	50.0	80.0	120
2-Chlorophenol	DCB	Ave	9622 333085	42691	111493	210274	249773	5.00 160	20.0	50.0	80.0	120
n-Decane	DCB	Ave	13574 402535	53728	140329	259534	303626	5.00 160	20.0	50.0	80.0	120
1,3-Dichlorobenzene	DCB	Ave	11720 358971	47439	121211	229445	271552	5.00 160	20.0	50.0	80.0	120
1,4-Dichlorobenzene	DCB	Ave	11979 365637	48137	122596	230263	273914	5.00 160	20.0	50.0	80.0	120
Benzyl alcohol	DCB	Ave	5784 217908	25908	71369	133959	163272	5.00 160	20.0	50.0	80.0	120
1,2-Dichlorobenzene	DCB	Ave	11031 344661	45658	115097	216584	260694	5.00 160	20.0	50.0	80.0	120
Indene	PHN	Ave	16243 537490	69799	177665	338110	398140	5.00 160	20.0	50.0	80.0	120
2-Methylphenol	DCB	Ave	8604 293281	35715	97234	184453	219267	5.00 160	20.0	50.0	80.0	120
bis (2-chloroisopropyl) ether	DCB	Ave	17181 486921	68077	173323	321374	373496	5.00 160	20.0	50.0	80.0	120

FORM VI

GC/MS SEMI VOA INITIAL CALIBRATION DATA

INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-70101-1 Analy Batch No.: 208059

SDG No.:

Instrument ID: HP5973X GC Column: RXI-5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/16/2014 08:43 Calibration End Date: 10/16/2014 10:43 Calibration ID: 20708

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Acetophenone	DCB	Ave	13924 450679	57680	145473	281040	334133	5.00 160	20.0	50.0	80.0	120
N-Nitrosodi-n-propylamine	DCB	Ave	6681 221913	28042	73593	136931	168239	5.00 160	20.0	50.0	80.0	120
4-Methylphenol	DCB	Ave	8483 303933	37685	102207	192285	229692	5.00 160	20.0	50.0	80.0	120
Hexachloroethane	DCB	Ave	4854 149654	18802	48813	93714	111588	5.00 160	20.0	50.0	80.0	120
Nitrobenzene	NPT	Ave	9566 332944	41757	109648	205985	250155	5.00 160	20.0	50.0	80.0	120
Isophorone	NPT	Ave	18207 598984	76290	198499	371826	445328	5.00 160	20.0	50.0	80.0	120
2-Nitrophenol	NPT	Ave	5067 185643	23338	61065	115252	139153	5.00 160	20.0	50.0	80.0	120
2,4-Dimethylphenol	NPT	Ave	10345 351007	43582	113295	214619	258869	5.00 160	20.0	50.0	80.0	120
Bis(2-chloroethoxy)methane	NPT	Ave	10433 354890	44811	117657	219892	265697	5.00 160	20.0	50.0	80.0	120
Benzoic acid	NPT	Lin1	 251590	19552	71189	142367	178221	 160	20.0	50.0	80.0	120
2,4-Dichlorophenol	NPT	Ave	7759 267168	32735	88600	166998	200202	5.00 160	20.0	50.0	80.0	120
1,2,4-Trichlorobenzene	NPT	Ave	10020 306211	39266	100990	189254	225441	5.00 160	20.0	50.0	80.0	120
Naphthalene	NPT	Ave	29934 906452	122048	312210	583554	688840	5.00 160	20.0	50.0	80.0	120
4-Chloroaniline	NPT	Ave	11962 405995	50144	134077	250517	306430	5.00 160	20.0	50.0	80.0	120
Hexachlorobutadiene	NPT	Ave	5743 186937	23138	59781	116464	137054	5.00 160	20.0	50.0	80.0	120
Caprolactam	NPT	Lin1	2933 50773	8210	18391	31101	36800	5.00 160	20.0	50.0	80.0	120
4-Chloro-3-methylphenol	NPT	Ave	8225 301816	37412	98423	187854	228945	5.00 160	20.0	50.0	80.0	120
2-Methylnaphthalene	NPT	Ave	20460 619931	82125	209599	392826	466751	5.00 160	20.0	50.0	80.0	120
1-Methylnaphthalene	NPT	Ave	18935 585638	76011	195657	367160	441613	5.00 160	20.0	50.0	80.0	120
Hexachlorocyclopentadiene	ANT	Lin1	2344 196349	16652	54892	112756	139361	5.00 160	20.0	50.0	80.0	120
1,2,4,5-Tetrachlorobenzene	ANT	Ave	8676 289601	36961	93673	179819	216303	5.00 160	20.0	50.0	80.0	120

FORM VI

GC/MS SEMI VOA INITIAL CALIBRATION DATA

INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-70101-1 Analy Batch No.: 208059

SDG No.:

Instrument ID: HP5973X GC Column: RXI-5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/16/2014 08:43 Calibration End Date: 10/16/2014 10:43 Calibration ID: 20708

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
2,4,6-Trichlorophenol	ANT	Ave	5711 204526	23739	64522	121146	150523	5.00 160	20.0	50.0	80.0	120
2,4,5-Trichlorophenol	ANT	Ave	4878 214137	25901	67614	132109	159845	5.00 160	20.0	50.0	80.0	120
Biphenyl	ANT	Ave	23842 737860	98922	252233	471357	559234	5.00 160	20.0	50.0	80.0	120
2-Chloronaphthalene	ANT	Ave	17858 583231	76687	193912	366109	435996	5.00 160	20.0	50.0	80.0	120
2-Nitroaniline	ANT	Ave	5050 211529	25178	68318	130748	154753	5.00 160	20.0	50.0	80.0	120
Dimethyl phthalate	ANT	Ave	22300 702202	91344	237026	442523	527437	5.00 160	20.0	50.0	80.0	120
1,3-Dinitrobenzene	NPT	Ave	2928 123948	14916	40622	75771	92908	5.00 160	20.0	50.0	80.0	120
2,6-Dinitrotoluene	ANT	Ave	4406 167550	21709	55412	104024	125374	5.00 160	20.0	50.0	80.0	120
Acenaphthylene	ANT	Ave	28413 921511	123608	314326	579122	694100	5.00 160	20.0	50.0	80.0	120
3-Nitroaniline	ANT	Ave	4832 194028	23508	61317	119811	144783	5.00 160	20.0	50.0	80.0	120
Acenaphthene	ANT	Ave	18913 598159	77386	200415	375632	445446	5.00 160	20.0	50.0	80.0	120
2,4-Dinitrophenol	ANT	Lin1	3280 241588	22261	70974	143749	175072	10.0 320	40.0	100	160	240
4-Nitrophenol	ANT	Lin1	4089 295045	30698	88345	173847	214928	10.0 320	40.0	100	160	240
Dibenzofuran	ANT	Ave	26773 823871	109611	280971	521947	616996	5.00 160	20.0	50.0	80.0	120
2,4-Dinitrotoluene	ANT	Ave	6354 234496	29116	77248	142928	175101	5.00 160	20.0	50.0	80.0	120
2,3,4,6-Tetrachlorophenol	ANT	Ave	3825 170730	19312	53366	102695	124582	5.00 160	20.0	50.0	80.0	120
Diethyl phthalate	ANT	Ave	22688 766767	98821	255533	471089	567899	5.00 160	20.0	50.0	80.0	120
Hexadecane	ANT	Ave	16225 494815	68052	174476	319379	381749	5.00 160	20.0	50.0	80.0	120
Fluorene	ANT	Ave	21037 656685	86508	219038	405860	490774	5.00 160	20.0	50.0	80.0	120
4-Chlorophenyl phenyl ether	ANT	Ave	10813 339398	43294	110053	206182	254846	5.00 160	20.0	50.0	80.0	120
4-Nitroaniline	ANT	Ave	4228 190705	24101	59825	116126	138975	5.00 160	20.0	50.0	80.0	120

FORM VI

GC/MS SEMI VOA INITIAL CALIBRATION DATA

INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-70101-1 Analy Batch No.: 208059

SDG No.:

Instrument ID: HP5973X GC Column: RXI-5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/16/2014 08:43 Calibration End Date: 10/16/2014 10:43 Calibration ID: 20708

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
4,6-Dinitro-2-methylphenol	PHN	Ave	6823 306214	35666	95786	187232	225110	10.0 320	40.0	100	160	240
N-Nitrosodiphenylamine	PHN	Ave	14792 486598	63735	166092	303375	364980	5.00 160	20.0	50.0	80.0	120
1,2-Diphenylhydrazine	ANT	Ave	21883 714218	92351	241596	444167	535833	5.00 160	20.0	50.0	80.0	120
trans-Azobenzene	PHN	Ave	21883 714218	92351	241596	444167	535833	5.00 160	20.0	50.0	80.0	120
4-Bromophenyl phenyl ether	PHN	Ave	5818 202293	25421	64192	119810	148120	5.00 160	20.0	50.0	80.0	120
Hexachlorobenzene	PHN	Ave	7167 230372	29843	73056	137329	167867	5.00 160	20.0	50.0	80.0	120
Atrazine	ANT	Ave	6414 198947	26695	69658	128977	153417	5.00 160	20.0	50.0	80.0	120
Pentachlorophenol	PHN	Lin1	4732 298855	28957	87200	172349	213994	10.0 320	40.0	100	160	240
n-Octadecane	PHN	Ave	17036 522984	71743	183768	332670	395639	5.00 160	20.0	50.0	80.0	120
Phenanthrene	PHN	Ave	33299 1000005	136254	338784	623284	758870	5.00 160	20.0	50.0	80.0	120
Anthracene	PHN	Ave	33430 1032792	141505	354737	648478	781735	5.00 160	20.0	50.0	80.0	120
Carbazole	PHN	Ave	28357 911407	123630	314090	568413	688381	5.00 160	20.0	50.0	80.0	120
Di-n-butyl phthalate	PHN	Ave	39017 1216547	169772	431414	781642	928896	5.00 160	20.0	50.0	80.0	120
Fluoranthene	PHN	Ave	34030 1106247	145611	378689	684686	826835	5.00 160	20.0	50.0	80.0	120
Benzidine	CRY	Ave	16701 489719	90216	234121	403975	422551	5.00 160	20.0	50.0	80.0	120
Pyrene	CRY	Ave	36538 1130433	154577	387090	701606	852781	5.00 160	20.0	50.0	80.0	120
Butyl benzyl phthalate	CRY	Ave	18844 614985	82286	207123	379626	465387	5.00 160	20.0	50.0	80.0	120
3,3'-Dichlorobenzidine	CRY	Ave	12954 437554	60679	155862	286073	338655	5.00 160	20.0	50.0	80.0	120
Benzo(a)anthracene	CRY	Ave	35993 1158058	149029	380609	706101	861046	5.00 160	20.0	50.0	80.0	120
Bis(2-ethylhexyl) phthalate	CRY	Ave	27862 881697	118594	299272	558334	671859	5.00 160	20.0	50.0	80.0	120
Chrysene	CRY	Ave	34032 1049629	142500	347844	653678	786302	5.00 160	20.0	50.0	80.0	120

FORM VI

GC/MS SEMI VOA INITIAL CALIBRATION DATA

INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-70101-1 Analy Batch No.: 208059

SDG No.:

Instrument ID: HP5973X GC Column: RXI-5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/16/2014 08:43 Calibration End Date: 10/16/2014 10:43 Calibration ID: 20708

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Di-n-octyl phthalate	CRY	Ave	49074 1431629	204026	512225	924523	1115729	5.00 160	20.0	50.0	80.0	120
Benzo(b)fluoranthene	PRY	Ave	38573 1301153	148153	419229	806270	896727	5.00 160	20.0	50.0	80.0	120
Benzo(k)fluoranthene	PRY	Ave	40198 1260921	180415	410995	740647	998415	5.00 160	20.0	50.0	80.0	120
Benzo(a)pyrene	PRY	Ave	35193 1203730	153643	387336	718447	875818	5.00 160	20.0	50.0	80.0	120
Indeno(1,2,3-cd)pyrene	PRY	Ave	37528 1516680	162172	425482	850545	1064000	5.00 160	20.0	50.0	80.0	120
Dibenz(a,h)anthracene	PRY	Ave	30077 1246334	134452	361382	728145	909250	5.00 160	20.0	50.0	80.0	120
Benzo(g,h,i)perylene	PRY	Ave	32347 1224335	136322	341565	695221	849056	5.00 160	20.0	50.0	80.0	120
2-Fluorophenol	DCB	Ave	9043 306103	38635	100047	193396	228859	5.00 160	20.0	50.0	80.0	120
Phenol-d5	DCB	Ave	11056 379658	47280	123917	234445	281063	5.00 160	20.0	50.0	80.0	120
Nitrobenzene-d5	NPT	Ave	9571 346509	42714	113147	212887	257093	5.00 160	20.0	50.0	80.0	120
2-Fluorobiphenyl	ANT	Ave	20106 660398	85793	222530	415449	497812	5.00 160	20.0	50.0	80.0	120
2,4,6-Tribromophenol	PHN	Ave	2955 117603	13718	36897	70087	86748	5.00 160	20.0	50.0	80.0	120
p-Terphenyl-d14	CRY	Ave	24570 807425	104931	267271	490427	604078	5.00 160	20.0	50.0	80.0	120

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD
Qua = Quadratic ISTD

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973X\20141016-36383.b\X00906830.D
Lims ID: IC - LIST 1 -5PT
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 16-Oct-2014 08:43:30 ALS Bottle#: 1 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 480-0036383-003
Operator ID: LMW Instrument ID: HP5973X
Sublist: chrom-X-8270*sub73

Method: \\Bufchrom\ChromData\HP5973X\20141016-36383.b\X-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 16-Oct-2014 15:17:21 Calib Date: 16-Oct-2014 10:43:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5973X\20141016-36383.b\X00906835.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK035

First Level Reviewer: WolfL Date: 16-Oct-2014 11:47:30

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.934	5.944	-0.010	95	56085	40.0	40.0	
* 2 Naphthalene-d8	136	7.451	7.467	-0.016	98	226186	40.0	40.0	
* 3 Acenaphthene-d10	164	9.529	9.540	-0.011	99	130375	40.0	40.0	
* 4 Phenanthrene-d10	188	11.148	11.158	-0.010	99	236826	40.0	40.0	
* 5 Chrysene-d12	240	13.562	13.573	-0.011	99	256399	40.0	40.0	
* 6 Perylene-d12	264	14.791	14.802	-0.011	98	272014	40.0	40.0	
$ 7 2-Fluorophenol	112	4.342	4.347	-0.005	92	9043	5.00	5.52	
$ 8 Phenol-d5	99	5.522	5.533	-0.011	90	11056	5.00	5.50	
$ 9 Nitrobenzene-d5	82	6.596	6.612	-0.016	94	9571	5.00	5.22	
$ 10 2-Fluorobiphenyl	172	8.744	8.754	-0.010	99	20106	5.00	5.50	
$ 11 2,4,6-Tribromophenol	330	10.432	10.442	-0.010	92	2955	5.00	4.89	
$ 12 p-Terphenyl-d14	244	12.644	12.649	-0.005	98	24570	5.00	5.68	
15 1,4-Dioxane	88	2.290	2.290	0.000	82	3792	5.00	5.95	
16 N-Nitrosodimethylamine	42	2.595	2.600	-0.005	70	5690	5.00	5.69	
17 Pyridine	52	2.664	2.664	0.000	89	7759	5.00	4.93	
27 Benzaldehyde	77	5.400	5.415	-0.015	89	6942	5.00	5.45	
28 Phenol	94	5.538	5.549	-0.011	79	12781	5.00	5.73	
29 Aniline	93	5.538	5.549	-0.011	78	14791	5.00	5.65	
31 Bis(2-chloroethyl)ether	93	5.624	5.634	-0.010	98	9010	5.00	5.58	
32 2-Chlorophenol	128	5.683	5.693	-0.010	96	9622	5.00	5.38	
35 n-Decane	57	5.752	5.763	-0.011	96	13574	5.00	6.00	
36 1,3-Dichlorobenzene	146	5.864	5.875	-0.011	95	11720	5.00	5.89	
37 1,4-Dichlorobenzene	146	5.955	5.966	-0.011	94	11979	5.00	5.94	
38 Benzyl alcohol	108	6.110	6.126	-0.016	89	5784	5.00	5.12	
39 1,2-Dichlorobenzene	146	6.131	6.142	-0.011	95	11031	5.00	5.82	
229 Indene	115	6.238	6.249	-0.011	0	16243	5.00	5.49	
40 2-Methylphenol	108	6.265	6.275	-0.010	92	8604	5.00	5.51	
42 2,2'-oxybis[1-chloropropan	45	6.281	6.291	-0.010	93	17181	5.00	6.11	
45 Acetophenone	105	6.420	6.436	-0.016	91	13924	5.00	5.74	
47 N-Nitrosodi-n-propylamine	70	6.431	6.441	-0.010	97	6681	5.00	5.60	
46 4-Methylphenol	108	6.457	6.462	-0.005	93	8483	5.00	5.25	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
50 Hexachloroethane	117	6.537	6.548	-0.011	91	4854	5.00	5.97	
52 Nitrobenzene	77	6.623	6.633	-0.010	97	9566	5.00	5.35	
56 Isophorone	82	6.911	6.927	-0.016	99	18207	5.00	5.59	
58 2-Nitrophenol	139	7.008	7.018	-0.010	90	5067	5.00	5.13	
59 2,4-Dimethylphenol	107	7.082	7.093	-0.011	96	10345	5.00	5.52	
62 Bis(2-chloroethoxy)methane	93	7.184	7.194	-0.010	98	10433	5.00	5.44	
64 Benzoic acid	105	7.206	7.264	-0.058	1	0	5.00	0	
65 2,4-Dichlorophenol	162	7.307	7.312	-0.005	93	7759	5.00	5.41	
67 1,2,4-Trichlorobenzene	180	7.392	7.403	-0.011	94	10020	5.00	5.94	
69 Naphthalene	128	7.478	7.488	-0.010	99	29934	5.00	5.83	
71 4-Chloroaniline	127	7.558	7.568	-0.010	97	11962	5.00	5.47	
73 Hexachlorobutadiene	225	7.633	7.643	-0.010	94	5743	5.00	5.71	
78 Caprolactam	113	7.953	7.990	-0.037	88	2933	5.00	4.84	
79 4-Chloro-3-methylphenol	107	8.167	8.172	-0.005	95	8225	5.00	5.13	
82 2-Methylnaphthalene	142	8.306	8.316	-0.010	95	20460	5.00	5.88	
83 1-Methylnaphthalene	142	8.418	8.428	-0.010	99	18935	5.00	5.83	
84 Hexachlorocyclopentadiene	237	8.493	8.503	-0.010	89	2344	5.00	5.87	
85 1,2,4,5-Tetrachlorobenzene	216	8.503	8.514	-0.011	95	8676	5.00	5.50	
86 2,4,6-Trichlorophenol	196	8.653	8.658	-0.005	92	5711	5.00	5.35	
87 2,4,5-Trichlorophenol	196	8.706	8.711	-0.005	91	4878	5.00	4.44	
90 1,1'-Biphenyl	154	8.861	8.872	-0.011	98	23842	5.00	5.71	
91 2-Chloronaphthalene	162	8.877	8.888	-0.011	98	17858	5.00	5.54	
93 2-Nitroaniline	65	9.011	9.021	-0.010	91	5050	5.00	4.63	
96 Dimethyl phthalate	163	9.235	9.251	-0.016	99	22300	5.00	5.70	
97 1,3-Dinitrobenzene	168	9.273	9.283	-0.010	90	2928	5.00	4.59	
99 2,6-Dinitrotoluene	165	9.305	9.315	-0.010	81	4406	5.00	4.91	
100 Acenaphthylene	152	9.363	9.374	-0.011	99	28413	5.00	5.52	
101 3-Nitroaniline	138	9.502	9.518	-0.016	44	4832	5.00	4.79	
102 Acenaphthene	153	9.566	9.577	-0.011	98	18913	5.00	5.70	
103 2,4-Dinitrophenol	184	9.636	9.646	-0.010	88	3280	10.0	11.3	
104 4-Nitrophenol	109	9.753	9.764	-0.011	53	4089	10.0	10.6	
107 Dibenzofuran	168	9.775	9.785	-0.010	98	26773	5.00	5.77	
106 2,4-Dinitrotoluene	165	9.780	9.791	-0.011	87	6354	5.00	5.09	
110 2,3,4,6-Tetrachlorophenol	232	9.930	9.940	-0.010	90	3825	5.00	4.47	
112 Diethyl phthalate	149	10.063	10.079	-0.016	99	22688	5.00	5.43	
138 Hexadecane	57	10.090	10.100	-0.010	91	16225	5.00	5.70	
115 Fluorene	166	10.165	10.175	-0.010	98	21037	5.00	5.76	
116 4-Chlorophenyl phenyl ethe	204	10.175	10.186	-0.011	94	10813	5.00	5.80	
118 4-Nitroaniline	138	10.202	10.229	-0.027	85	4228	5.00	4.34	
119 4,6-Dinitro-2-methylphenol	198	10.240	10.255	-0.015	92	6823	10.0	8.80	
120 N-Nitrosodiphenylamine	169	10.309	10.319	-0.010	98	14792	5.00	5.48	
122 Azobenzene	77	10.346	10.357	-0.011	95	21883	5.00	5.54	
123 1,2-Diphenylhydrazine	77	10.346	10.357	-0.011	98	21883	5.00	5.55	
130 4-Bromophenyl phenyl ether	248	10.699	10.709	-0.010	93	5818	5.00	5.40	
131 Hexachlorobenzene	284	10.752	10.763	-0.011	96	7167	5.00	5.73	
133 Atrazine	200	10.886	10.902	-0.016	94	6414	5.00	5.65	
134 Pentachlorophenol	266	10.971	10.982	-0.011	93	4732	10.0	11.3	
113 n-Octadecane	57	11.068	11.078	-0.010	85	17036	5.00	5.70	
141 Phenanthrene	178	11.174	11.185	-0.011	99	33299	5.00	5.86	
142 Anthracene	178	11.223	11.233	-0.010	99	33430	5.00	5.70	
143 Carbazole	167	11.393	11.404	-0.011	100	28357	5.00	5.54	
145 Di-n-butyl phthalate	149	11.735	11.746	-0.011	99	39017	5.00	5.58	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
152 Fluoranthene	202	12.302	12.307	-0.005	98	34030	5.00	5.53	
154 Benzidine	184	12.430	12.435	-0.005	99	16701	5.00	5.10	
155 Pyrene	202	12.505	12.510	-0.005	98	36538	5.00	5.85	
162 Butyl benzyl phthalate	149	13.066	13.076	-0.010	99	18844	5.00	5.64	
166 3,3'-Dichlorobenzidine	252	13.530	13.535	-0.005	85	12954	5.00	5.33	
167 Benzo[a]anthracene	228	13.552	13.557	-0.005	95	35993	5.00	5.80	
172 Bis(2-ethylhexyl) phthalat	149	13.557	13.568	-0.011	88	27862	5.00	5.74	
169 Chrysene	228	13.584	13.594	-0.010	98	34032	5.00	5.91	
168 Di-n-octyl phthalate	149	14.097	14.102	-0.005	99	49074	5.00	5.98	
174 Benzo[b]fluoranthene	252	14.449	14.460	-0.011	97	38573	5.00	5.67	
175 Benzo[k]fluoranthene	252	14.476	14.486	-0.010	97	40198	5.00	5.70	
177 Benzo[a]pyrene	252	14.738	14.754	-0.016	98	35193	5.00	5.49	
180 Indeno[1,2,3-cd]pyrene	276	15.833	15.854	-0.021	89	37528	5.00	5.12	
181 Dibenz(a,h)anthracene	278	15.838	15.859	-0.021	86	30077	5.00	4.91	
182 Benzo[g,h,i]perylene	276	16.132	16.153	-0.021	97	32347	5.00	5.37	
S 238 3-Methylphenol	1				0			5.25	
S 236 3 & 4 Methylphenol	108				0			5.25	
S 237 Total Cresols	1				0			10.8	

Reagents:

MB_LIST1_WRK_00008	Amount Added: 1.00	Units: mL	
MB_INTSTD_STK_00009	Amount Added: 20.00	Units: uL	Run Reagent

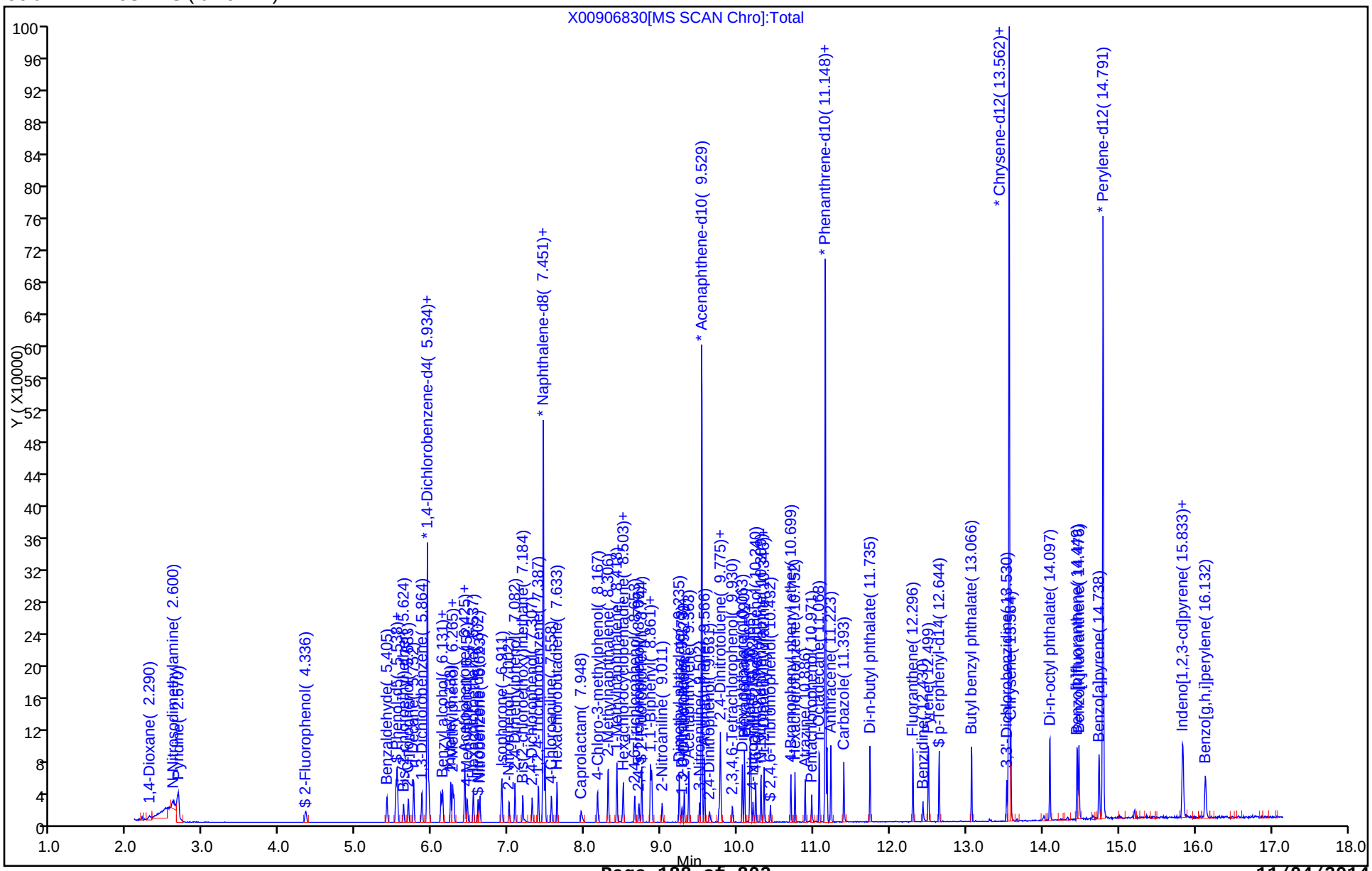
Report Date: 16-Oct-2014 15:17:23 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973X\20141016-36383.b\X00906830.D

Injection Date:	16-Oct-2014 08:43:30	Instrument ID:	HP5973X	Operator ID:	LMW
Lims ID:	IC - LIST 1 -5PT			Worklist Smp#:	3
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	X-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973X\20141016-36383.b\X00906831.D
Lims ID: ICIS - LIST 1 - 20PT
Client ID:
Sample Type: ICIS Calib Level: 2
Inject. Date: 16-Oct-2014 09:06:30 ALS Bottle#: 2 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 480-0036383-004
Operator ID: LMW Instrument ID: HP5973X
Sublist: chrom-X-8270*sub73

Method: \\Bufchrom\ChromData\HP5973X\20141016-36383.b\X-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 16-Oct-2014 15:17:24 Calib Date: 16-Oct-2014 10:43:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5973X\20141016-36383.b\X00906835.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK035

First Level Reviewer: WolfL Date: 16-Oct-2014 11:46:16

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.944	5.944	0.000	95	67265	40.0	40.0	
* 2 Naphthalene-d8	136	7.467	7.467	0.000	99	264284	40.0	40.0	
* 3 Acenaphthene-d10	164	9.540	9.540	0.000	98	150539	40.0	40.0	
* 4 Phenanthrene-d10	188	11.158	11.158	0.000	99	277113	40.0	40.0	
* 5 Chrysene-d12	240	13.568	13.568	0.000	98	306710	40.0	40.0	
* 6 Perylene-d12	264	14.797	14.797	0.000	98	318468	40.0	40.0	
$ 7 2-Fluorophenol	112	4.352	4.352	0.000	97	38635	20.0	19.7	
$ 8 Phenol-d5	99	5.533	5.533	0.000	93	47280	20.0	19.6	
$ 9 Nitrobenzene-d5	82	6.612	6.612	0.000	97	42714	20.0	19.9	
$ 10 2-Fluorobiphenyl	172	8.754	8.754	0.000	100	85793	20.0	20.3	
$ 11 2,4,6-Tribromophenol	330	10.437	10.437	0.000	96	13718	20.0	19.4	
$ 12 p-Terphenyl-d14	244	12.649	12.649	0.000	98	104931	20.0	20.3	
15 1,4-Dioxane	88	2.306	2.306	0.000	89	14885	20.0	19.5	
16 N-Nitrosodimethylamine	42	2.606	2.606	0.000	91	23363	20.0	19.5	
17 Pyridine	52	2.670	2.670	0.000	92	37741	20.0	20.0	
27 Benzaldehyde	77	5.416	5.416	0.000	90	29832	20.0	19.4	
28 Phenol	94	5.549	5.549	0.000	79	51174	20.0	19.1	
29 Aniline	93	5.549	5.549	0.000	79	62322	20.0	19.8	
31 Bis(2-chloroethyl)ether	93	5.635	5.635	0.000	96	39056	20.0	20.2	
32 2-Chlorophenol	128	5.699	5.699	0.000	98	42691	20.0	19.9	
35 n-Decane	57	5.768	5.768	0.000	94	53728	20.0	19.8	
36 1,3-Dichlorobenzene	146	5.875	5.875	0.000	97	47439	20.0	19.9	
37 1,4-Dichlorobenzene	146	5.966	5.966	0.000	97	48137	20.0	19.9	
38 Benzyl alcohol	108	6.126	6.126	0.000	93	25908	20.0	19.1	
39 1,2-Dichlorobenzene	146	6.147	6.147	0.000	95	45658	20.0	20.1	
229 Indene	115	6.254	6.254	0.000	0	69799	20.0	20.2	
40 2-Methylphenol	108	6.276	6.276	0.000	95	35715	20.0	19.1	
42 2,2'-oxybis[1-chloropropan	45	6.292	6.292	0.000	90	68077	20.0	20.2	
45 Acetophenone	105	6.436	6.436	0.000	94	57680	20.0	19.8	
47 N-Nitrosodi-n-propylamine	70	6.441	6.441	0.000	96	28042	20.0	19.6	
46 4-Methylphenol	108	6.468	6.468	0.000	96	37685	20.0	19.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
50 Hexachloroethane	117	6.548	6.548	0.000	96	18802	20.0	19.3	
52 Nitrobenzene	77	6.634	6.634	0.000	97	41757	20.0	20.0	
56 Isophorone	82	6.922	6.922	0.000	99	76290	20.0	20.0	
58 2-Nitrophenol	139	7.018	7.018	0.000	88	23338	20.0	20.2	
59 2,4-Dimethylphenol	107	7.093	7.093	0.000	96	43582	20.0	19.9	
62 Bis(2-chloroethoxy)methane	93	7.195	7.195	0.000	99	44811	20.0	20.0	
64 Benzoic acid	105	7.232	7.232	0.000	84	19552	20.0	20.6	
65 2,4-Dichlorophenol	162	7.317	7.317	0.000	98	32735	20.0	19.5	
67 1,2,4-Trichlorobenzene	180	7.403	7.403	0.000	98	39266	20.0	19.9	
69 Naphthalene	128	7.488	7.488	0.000	99	122048	20.0	20.3	
71 4-Chloroaniline	127	7.568	7.568	0.000	99	50144	20.0	19.6	
73 Hexachlorobutadiene	225	7.643	7.643	0.000	98	23138	20.0	19.7	
78 Caprolactam	113	7.969	7.969	0.000	92	8210	20.0	21.0	
79 4-Chloro-3-methylphenol	107	8.172	8.172	0.000	96	37412	20.0	20.0	
82 2-Methylnaphthalene	142	8.311	8.311	0.000	98	82125	20.0	20.2	
83 1-Methylnaphthalene	142	8.429	8.429	0.000	98	76011	20.0	20.0	
84 Hexachlorocyclopentadiene	237	8.498	8.498	0.000	95	16652	20.0	17.6	
85 1,2,4,5-Tetrachlorobenzene	216	8.509	8.509	0.000	99	36961	20.0	20.3	
86 2,4,6-Trichlorophenol	196	8.658	8.658	0.000	97	23739	20.0	19.3	
87 2,4,5-Trichlorophenol	196	8.712	8.712	0.000	98	25901	20.0	20.4	
90 1,1'-Biphenyl	154	8.867	8.867	0.000	100	98922	20.0	20.5	
91 2-Chloronaphthalene	162	8.883	8.883	0.000	98	76687	20.0	20.6	
93 2-Nitroaniline	65	9.016	9.016	0.000	96	25178	20.0	20.0	
96 Dimethyl phthalate	163	9.246	9.246	0.000	99	91344	20.0	20.2	
97 1,3-Dinitrobenzene	168	9.278	9.278	0.000	91	14916	20.0	20.0	
99 2,6-Dinitrotoluene	165	9.310	9.310	0.000	86	21709	20.0	21.0	
100 Acenaphthylene	152	9.369	9.369	0.000	100	123608	20.0	20.8	
101 3-Nitroaniline	138	9.508	9.508	0.000	98	23508	20.0	20.2	
102 Acenaphthene	153	9.577	9.577	0.000	99	77386	20.0	20.2	
103 2,4-Dinitrophenol	184	9.636	9.636	0.000	94	22261	40.0	36.2	
104 4-Nitrophenol	109	9.753	9.753	0.000	93	30698	40.0	39.3	
107 Dibenzofuran	168	9.780	9.780	0.000	99	109611	20.0	20.5	
106 2,4-Dinitrotoluene	165	9.785	9.785	0.000	90	29116	20.0	20.2	
110 2,3,4,6-Tetrachlorophenol	232	9.935	9.935	0.000	98	19312	20.0	19.6	
112 Diethyl phthalate	149	10.069	10.069	0.000	100	98821	20.0	20.5	
138 Hexadecane	57	10.095	10.095	0.000	91	68052	20.0	20.7	
115 Fluorene	166	10.170	10.170	0.000	99	86508	20.0	20.5	
116 4-Chlorophenyl phenyl ethe	204	10.181	10.181	0.000	93	43294	20.0	20.1	
118 4-Nitroaniline	138	10.213	10.213	0.000	87	24101	20.0	21.4	
119 4,6-Dinitro-2-methylphenol	198	10.245	10.245	0.000	92	35666	40.0	39.3	
120 N-Nitrosodiphenylamine	169	10.314	10.314	0.000	98	63735	20.0	20.2	
122 Azobenzene	77	10.352	10.352	0.000	96	92351	20.0	20.0	
123 1,2-Diphenylhydrazine	77	10.352	10.352	0.000	98	92351	20.0	20.3	
130 4-Bromophenyl phenyl ether	248	10.704	10.704	0.000	93	25421	20.0	20.2	
131 Hexachlorobenzene	284	10.763	10.763	0.000	99	29843	20.0	20.4	
133 Atrazine	200	10.897	10.897	0.000	95	26695	20.0	20.4	
134 Pentachlorophenol	266	10.977	10.977	0.000	98	28957	40.0	36.7	
113 n-Octadecane	57	11.073	11.073	0.000	84	71743	20.0	20.5	
141 Phenanthrene	178	11.180	11.180	0.000	99	136254	20.0	20.5	
142 Anthracene	178	11.228	11.228	0.000	99	141505	20.0	20.6	
143 Carbazole	167	11.399	11.399	0.000	100	123630	20.0	20.6	
145 Di-n-butyl phthalate	149	11.741	11.741	0.000	99	169772	20.0	20.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
152 Fluoranthene	202	12.302	12.302	0.000	98	145611	20.0	20.2	
154 Benzidine	184	12.430	12.430	0.000	100	90216	20.0	23.0	
155 Pyrene	202	12.505	12.505	0.000	98	154577	20.0	20.7	
162 Butyl benzyl phthalate	149	13.071	13.071	0.000	99	82286	20.0	20.6	
166 3,3'-Dichlorobenzidine	252	13.530	13.530	0.000	85	60679	20.0	20.9	
167 Benzo[a]anthracene	228	13.557	13.557	0.000	96	149029	20.0	20.1	
172 Bis(2-ethylhexyl) phthalat	149	13.562	13.562	0.000	94	118594	20.0	20.4	
169 Chrysene	228	13.589	13.589	0.000	98	142500	20.0	20.7	
168 Di-n-octyl phthalate	149	14.097	14.097	0.000	100	204026	20.0	20.8	
174 Benzo[b]fluoranthene	252	14.455	14.455	0.000	98	148153	20.0	18.6	
175 Benzo[k]fluoranthene	252	14.481	14.481	0.000	98	180415	20.0	21.8	
177 Benzo[a]pyrene	252	14.743	14.743	0.000	98	153643	20.0	20.5	
180 Indeno[1,2,3-cd]pyrene	276	15.844	15.844	0.000	90	162172	20.0	18.9	
181 Dibenz(a,h)anthracene	278	15.849	15.849	0.000	86	134452	20.0	18.8	
182 Benzo[g,h,i]perylene	276	16.143	16.143	0.000	97	136322	20.0	19.3	
S 238 3-Methylphenol	1				0			19.4	
S 236 3 & 4 Methylphenol	108				0			19.4	
S 237 Total Cresols	1				0			38.5	

Reagents:

MB_LIST1_WRK_00003	Amount Added: 1.00	Units: mL	
MB_INTSTD_STK_00009	Amount Added: 20.00	Units: uL	Run Reagent

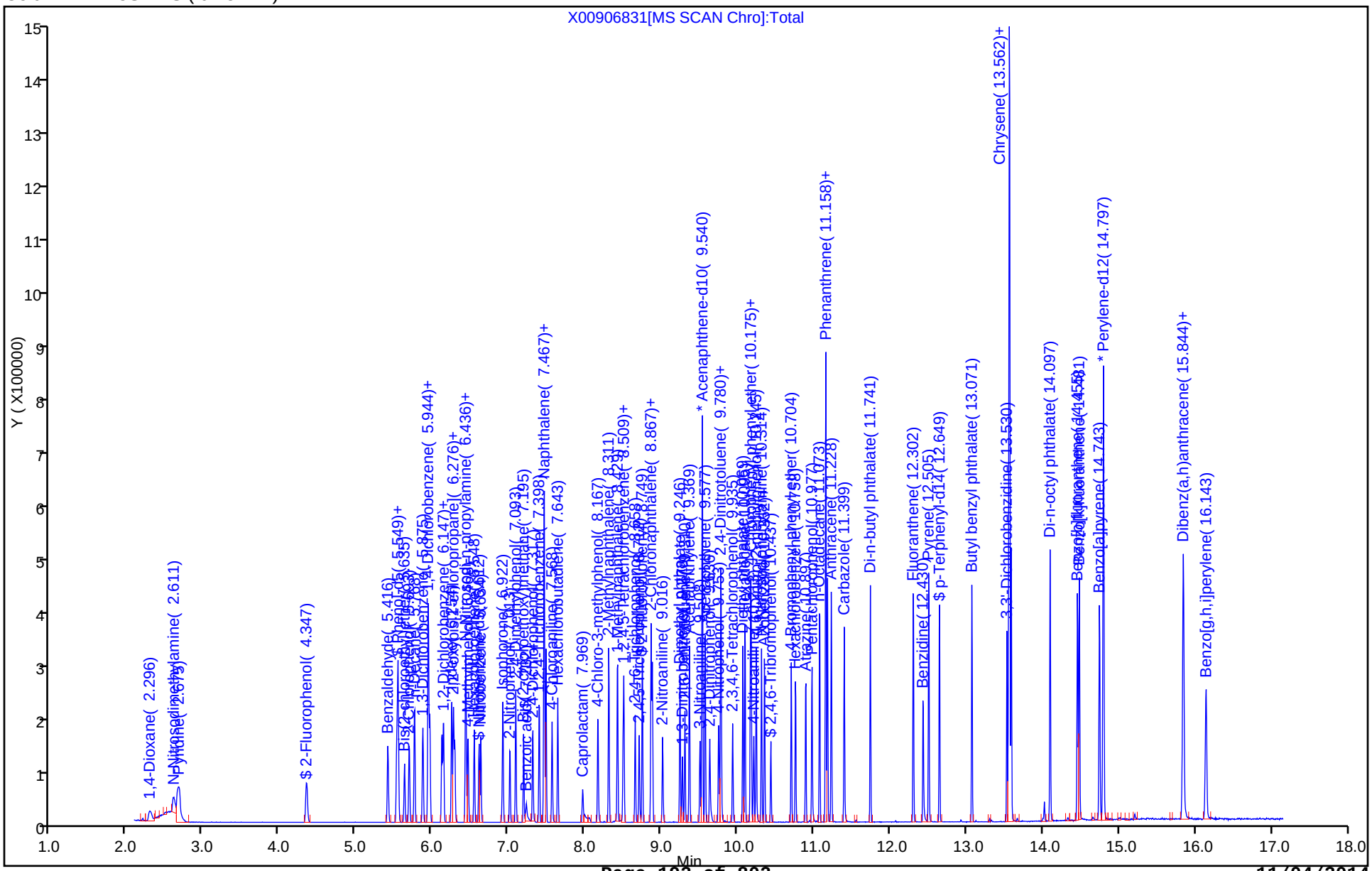
Report Date: 16-Oct-2014 15:17:25 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973X\20141016-36383.b\X00906831.D

Injection Date:	16-Oct-2014 09:06:30	Instrument ID:	HP5973X	Operator ID:	LMW
Lims ID:	ICIS - LIST 1 - 20PT			Worklist Smp#:	4
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	X-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973X\20141016-36383.b\X00906832.D
Lims ID: IC - LIST 1 - 50PT
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 16-Oct-2014 09:30:30 ALS Bottle#: 3 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 480-0036383-005
Operator ID: LMW Instrument ID: HP5973X
Sublist: chrom-X-8270*sub73

Method: \\Bufchrom\ChromData\HP5973X\20141016-36383.b\X-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 17-Oct-2014 11:59:53 Calib Date: 16-Oct-2014 10:43:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5973X\20141016-36383.b\X00906835.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK019

First Level Reviewer: WolfL Date: 16-Oct-2014 15:17:17

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
*	1 1,4-Dichlorobenzene-d4	152	5.944	5.944	0.000	96	71233	40.0	40.0	
*	2 Naphthalene-d8	136	7.467	7.467	0.000	98	283209	40.0	40.0	
*	3 Acenaphthene-d10	164	9.540	9.540	0.000	98	163482	40.0	40.0	
*	4 Phenanthrene-d10	188	11.158	11.158	0.000	99	297051	40.0	40.0	
*	5 Chrysene-d12	240	13.573	13.573	0.000	98	326948	40.0	40.0	
*	6 Perylene-d12	264	14.802	14.802	0.000	98	342398	40.0	40.0	
$	7 2-Fluorophenol	112	4.347	4.347	0.000	97	100047	50.0	48.1	
$	8 Phenol-d5	99	5.533	5.533	0.000	93	123917	50.0	48.5	
$	9 Nitrobenzene-d5	82	6.612	6.612	0.000	98	113147	50.0	49.3	
$	10 2-Fluorobiphenyl	172	8.754	8.754	0.000	100	222530	50.0	48.6	
$	11 2,4,6-Tribromophenol	330	10.442	10.442	0.000	97	36897	50.0	48.6	
$	12 p-Terphenyl-d14	244	12.649	12.649	0.000	98	267271	50.0	48.5	
	15 1,4-Dioxane	88	2.290	2.290	0.000	91	39375	50.0	48.6	
	16 N-Nitrosodimethylamine	42	2.600	2.600	0.000	90	61231	50.0	48.2	
	17 Pyridine	52	2.664	2.664	0.000	91	99660	50.0	49.9	
	27 Benzaldehyde	77	5.415	5.415	0.000	91	73955	50.0	49.8	
	29 Aniline	93	5.549	5.549	0.000	85	159910	50.0	48.1	
	28 Phenol	94	5.549	5.549	0.000	80	135819	50.0	48.0	
	31 Bis(2-chloroethyl)ether	93	5.634	5.634	0.000	97	98593	50.0	48.1	
	32 2-Chlorophenol	128	5.693	5.693	0.000	98	111493	50.0	49.1	
	35 n-Decane	57	5.763	5.763	0.000	97	140329	50.0	48.8	
	36 1,3-Dichlorobenzene	146	5.875	5.875	0.000	97	121211	50.0	47.9	
	37 1,4-Dichlorobenzene	146	5.966	5.966	0.000	96	122596	50.0	47.8	
	38 Benzyl alcohol	108	6.126	6.126	0.000	96	71369	50.0	49.8	
	39 1,2-Dichlorobenzene	146	6.142	6.142	0.000	95	115097	50.0	47.8	
	229 Indene	115	6.249	6.249	0.000	0	177665	50.0	47.9	
	40 2-Methylphenol	108	6.275	6.275	0.000	96	97234	50.0	49.0	
	42 2,2'-oxybis[1-chloropropan	45	6.291	6.291	0.000	91	173323	50.0	48.5	
	45 Acetophenone	105	6.436	6.436	0.000	93	145473	50.0	47.2	
	47 N-Nitrosodi-n-propylamine	70	6.441	6.441	0.000	96	73593	50.0	48.6	
	46 4-Methylphenol	108	6.462	6.462	0.000	96	102207	50.0	49.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
50 Hexachloroethane	117	6.548	6.548	0.000	94	48813	50.0	47.3	
52 Nitrobenzene	77	6.633	6.633	0.000	98	109648	50.0	49.0	
56 Isophorone	82	6.927	6.927	0.000	99	198499	50.0	48.7	
58 2-Nitrophenol	139	7.018	7.018	0.000	91	61065	50.0	49.3	
59 2,4-Dimethylphenol	107	7.093	7.093	0.000	97	113295	50.0	48.3	
62 Bis(2-chloroethoxy)methane	93	7.194	7.194	0.000	99	117657	50.0	49.0	
64 Benzoic acid	105	7.264	7.264	0.000	84	71189	50.0	49.6	
65 2,4-Dichlorophenol	162	7.312	7.312	0.000	97	88600	50.0	49.3	
67 1,2,4-Trichlorobenzene	180	7.403	7.403	0.000	98	100990	50.0	47.8	
69 Naphthalene	128	7.488	7.488	0.000	99	312210	50.0	48.6	
71 4-Chloroaniline	127	7.568	7.568	0.000	99	134077	50.0	49.0	
73 Hexachlorobutadiene	225	7.643	7.643	0.000	98	59781	50.0	47.4	
78 Caprolactam	113	7.990	7.990	0.000	95	18391	50.0	51.4	
79 4-Chloro-3-methylphenol	107	8.172	8.172	0.000	97	98423	50.0	49.0	
82 2-Methylnaphthalene	142	8.316	8.316	0.000	98	209599	50.0	48.1	
83 1-Methylnaphthalene	142	8.428	8.428	0.000	99	195657	50.0	48.1	
84 Hexachlorocyclopentadiene	237	8.503	8.503	0.000	98	54892	50.0	46.2	
85 1,2,4,5-Tetrachlorobenzene	216	8.514	8.514	0.000	98	93673	50.0	47.4	
86 2,4,6-Trichlorophenol	196	8.658	8.658	0.000	98	64522	50.0	48.2	
87 2,4,5-Trichlorophenol	196	8.711	8.711	0.000	98	67614	50.0	49.1	
90 1,1'-Biphenyl	154	8.872	8.872	0.000	100	252233	50.0	48.2	
91 2-Chloronaphthalene	162	8.888	8.888	0.000	99	193912	50.0	48.0	
93 2-Nitroaniline	65	9.021	9.021	0.000	95	68318	50.0	50.0	
96 Dimethyl phthalate	163	9.251	9.251	0.000	100	237026	50.0	48.3	
97 1,3-Dinitrobenzene	168	9.283	9.283	0.000	93	40622	50.0	50.9	
99 2,6-Dinitrotoluene	165	9.315	9.315	0.000	85	55412	50.0	49.3	
100 Acenaphthylene	152	9.374	9.374	0.000	100	314326	50.0	48.7	
101 3-Nitroaniline	138	9.518	9.518	0.000	97	61317	50.0	48.5	
102 Acenaphthene	153	9.577	9.577	0.000	99	200415	50.0	48.2	
103 2,4-Dinitrophenol	184	9.646	9.646	0.000	95	70974	100.0	94.4	
104 4-Nitrophenol	109	9.764	9.764	0.000	94	88345	100.0	95.3	
107 Dibenzofuran	168	9.785	9.785	0.000	98	280971	50.0	48.3	
106 2,4-Dinitrotoluene	165	9.791	9.791	0.000	94	77248	50.0	49.4	
110 2,3,4,6-Tetrachlorophenol	232	9.940	9.940	0.000	98	53366	50.0	49.8	
112 Diethyl phthalate	149	10.079	10.079	0.000	100	255533	50.0	48.8	
138 Hexadecane	57	10.100	10.100	0.000	91	174476	50.0	48.9	
115 Fluorene	166	10.175	10.175	0.000	99	219038	50.0	47.8	
116 4-Chlorophenyl phenyl ethe	204	10.186	10.186	0.000	96	110053	50.0	47.1	
118 4-Nitroaniline	138	10.229	10.229	0.000	89	59825	50.0	49.0	
119 4,6-Dinitro-2-methylphenol	198	10.255	10.255	0.000	92	95786	100.0	98.5	
120 N-Nitrosodiphenylamine	169	10.319	10.319	0.000	99	166092	50.0	49.0	
122 Azobenzene	77	10.357	10.357	0.000	96	241596	50.0	48.7	
123 1,2-Diphenylhydrazine	77	10.357	10.357	0.000	98	241596	50.0	48.9	
130 4-Bromophenyl phenyl ether	248	10.709	10.709	0.000	94	64192	50.0	47.5	
131 Hexachlorobenzene	284	10.763	10.763	0.000	97	73056	50.0	46.5	
133 Atrazine	200	10.902	10.902	0.000	96	69658	50.0	49.0	
134 Pentachlorophenol	266	10.982	10.982	0.000	98	87200	100.0	93.5	
113 n-Octadecane	57	11.078	11.078	0.000	84	183768	50.0	49.0	
141 Phenanthrene	178	11.185	11.185	0.000	99	338784	50.0	47.5	
142 Anthracene	178	11.233	11.233	0.000	99	354737	50.0	48.2	
143 Carbazole	167	11.404	11.404	0.000	100	314090	50.0	48.9	
145 Di-n-butyl phthalate	149	11.746	11.746	0.000	99	431414	50.0	49.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
152 Fluoranthene	202	12.307	12.307	0.000	98	378689	50.0	49.1	
154 Benzidine	184	12.435	12.435	0.000	100	234121	50.0	56.1	
155 Pyrene	202	12.510	12.510	0.000	98	387090	50.0	48.6	
162 Butyl benzyl phthalate	149	13.076	13.076	0.000	100	207123	50.0	48.6	
166 3,3'-Dichlorobenzidine	252	13.535	13.535	0.000	86	155862	50.0	50.3	
167 Benzo[a]anthracene	228	13.557	13.557	0.000	95	380609	50.0	48.1	
172 Bis(2-ethylhexyl) phthalat	149	13.568	13.568	0.000	95	299272	50.0	48.4	
169 Chrysene	228	13.594	13.594	0.000	98	347844	50.0	47.4	
168 Di-n-octyl phthalate	149	14.102	14.102	0.000	100	512225	50.0	48.9	
174 Benzo[b]fluoranthene	252	14.460	14.460	0.000	98	419229	50.0	49.0	
175 Benzo[k]fluoranthene	252	14.486	14.486	0.000	98	410995	50.0	46.3	
177 Benzo[a]pyrene	252	14.754	14.754	0.000	98	387336	50.0	48.0	
180 Indeno[1,2,3-cd]pyrene	276	15.854	15.854	0.000	90	425482	50.0	46.1	
181 Dibenz(a,h)anthracene	278	15.859	15.859	0.000	90	361382	50.0	46.9	
182 Benzo[g,h,i]perylene	276	16.153	16.153	0.000	98	341565	50.0	45.1	
S 236 3 & 4 Methylphenol	108				0			49.8	
S 237 Total Cresols	1				0			98.8	
S 238 3-Methylphenol	1				0			49.8	

Reagents:

MB_LIST1_WRK_00004	Amount Added: 1.00	Units: mL	
MB_INTSTD_STK_00009	Amount Added: 20.00	Units: uL	Run Reagent

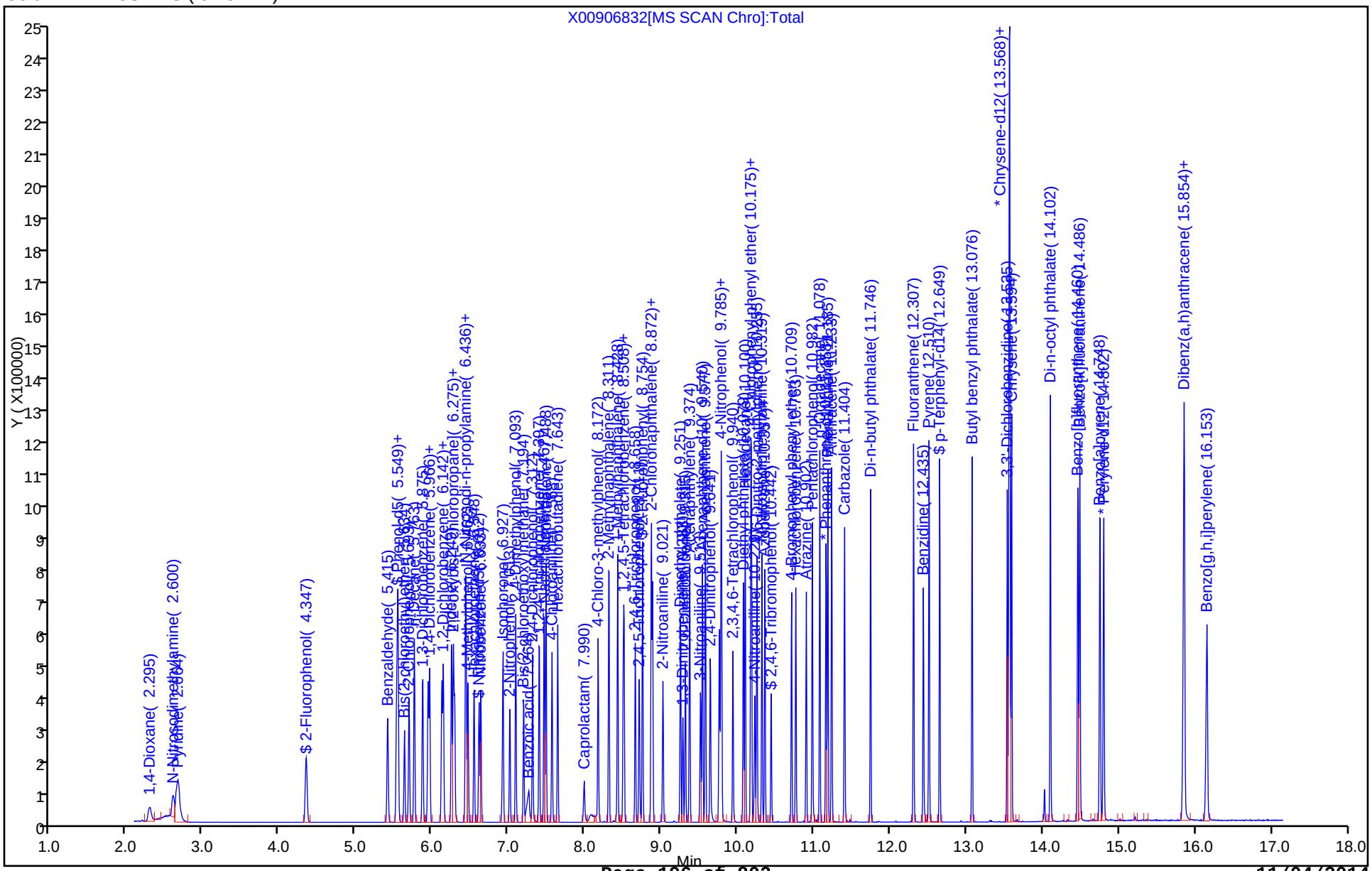
Report Date: 17-Oct-2014 11:59:54 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973X\20141016-36383.b\X00906832.D

Injection Date:	16-Oct-2014 09:30:30	Instrument ID:	HP5973X	Operator ID:	LMW
Lims ID:	IC - LIST 1 - 50PT			Worklist Smp#:	5
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	X-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973X\20141016-36383.b\X00906833.D
Lims ID: IC - LIST 1 -80PT
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 16-Oct-2014 09:54:30 ALS Bottle#: 4 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 480-0036383-006
Operator ID: LMW Instrument ID: HP5973X
Sublist: chrom-X-8270*sub73

Method: \\Bufchrom\ChromData\HP5973X\20141016-36383.b\X-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 16-Oct-2014 15:17:25 Calib Date: 16-Oct-2014 10:43:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5973X\20141016-36383.b\X00906835.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK035

First Level Reviewer: WolfL Date: 16-Oct-2014 11:45:44

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.939	5.944	-0.005	94	85886	40.0	40.0	
* 2 Naphthalene-d8	136	7.462	7.467	-0.005	93	342591	40.0	40.0	
* 3 Acenaphthene-d10	164	9.540	9.540	0.000	98	193531	40.0	40.0	
* 4 Phenanthrene-d10	188	11.158	11.158	0.000	99	348484	40.0	40.0	
* 5 Chrysene-d12	240	13.568	13.568	0.000	86	379918	40.0	40.0	
* 6 Perylene-d12	264	14.796	14.797	0.000	98	401989	40.0	40.0	
$ 7 2-Fluorophenol	112	4.347	4.352	-0.005	96	193396	80.0	77.1	
$ 8 Phenol-d5	99	5.533	5.533	0.000	91	234445	80.0	76.1	
$ 9 Nitrobenzene-d5	82	6.612	6.612	0.000	98	212887	80.0	76.6	
$ 10 2-Fluorobiphenyl	172	8.754	8.754	0.000	100	415449	80.0	76.6	
$ 11 2,4,6-Tribromophenol	330	10.443	10.437	0.006	98	70087	80.0	78.7	
$ 12 p-Terphenyl-d14	244	12.649	12.649	0.000	98	490427	80.0	76.5	
15 1,4-Dioxane	88	2.290	2.306	-0.016	92	74951	80.0	76.7	
16 N-Nitrosodimethylamine	42	2.600	2.606	-0.006	90	118365	80.0	77.3	
17 Pyridine	52	2.670	2.670	0.000	93	192023	80.0	79.7	
27 Benzaldehyde	77	5.416	5.416	0.000	90	128632	80.0	80.2	
28 Phenol	94	5.549	5.549	0.000	79	259807	80.0	76.1	
29 Aniline	93	5.549	5.549	0.000	70	303166	80.0	75.6	
31 Bis(2-chloroethyl)ether	93	5.635	5.635	0.000	86	186779	80.0	75.6	
32 2-Chlorophenol	128	5.693	5.699	-0.006	98	210274	80.0	76.8	
35 n-Decane	57	5.763	5.768	-0.005	96	259534	80.0	74.9	
36 1,3-Dichlorobenzene	146	5.870	5.875	-0.005	98	229445	80.0	75.3	
37 1,4-Dichlorobenzene	146	5.960	5.966	-0.006	93	230263	80.0	74.5	
38 Benzyl alcohol	108	6.126	6.126	0.000	94	133959	80.0	77.5	
39 1,2-Dichlorobenzene	146	6.142	6.147	-0.005	95	216584	80.0	74.6	
229 Indene	115	6.249	6.254	-0.005	0	338110	80.0	77.7	
40 2-Methylphenol	108	6.276	6.276	0.000	95	184453	80.0	77.2	
42 2,2'-oxybis[1-chloropropan	45	6.292	6.292	0.000	82	321374	80.0	74.6	
45 Acetophenone	105	6.436	6.436	0.000	94	281040	80.0	75.7	
47 N-Nitrosodi-n-propylamine	70	6.447	6.441	0.006	96	136931	80.0	74.9	
46 4-Methylphenol	108	6.468	6.468	0.000	45	192285	80.0	77.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
50 Hexachloroethane	117	6.543	6.548	-0.005	94	93714	80.0	75.3	
52 Nitrobenzene	77	6.639	6.634	0.005	95	205985	80.0	76.1	
56 Isophorone	82	6.927	6.922	0.005	99	371826	80.0	75.4	
58 2-Nitrophenol	139	7.013	7.018	-0.005	92	115252	80.0	77.0	
59 2,4-Dimethylphenol	107	7.093	7.093	0.000	97	214619	80.0	75.6	
62 Bis(2-chloroethoxy)methane	93	7.194	7.195	0.000	99	219892	80.0	75.7	
64 Benzoic acid	105	7.296	7.232	0.064	63	142367	80.0	76.5	
65 2,4-Dichlorophenol	162	7.312	7.317	-0.005	94	166998	80.0	76.8	
67 1,2,4-Trichlorobenzene	180	7.397	7.403	-0.006	96	189254	80.0	74.1	
69 Naphthalene	128	7.488	7.488	0.000	98	583554	80.0	75.0	
71 4-Chloroaniline	127	7.568	7.568	0.000	97	250517	80.0	75.7	
73 Hexachlorobutadiene	225	7.638	7.643	-0.005	97	116464	80.0	76.4	
78 Caprolactam	113	8.012	7.969	0.043	92	31101	80.0	74.5	
79 4-Chloro-3-methylphenol	107	8.172	8.172	0.000	97	187854	80.0	77.3	
82 2-Methylnaphthalene	142	8.311	8.311	0.000	97	392826	80.0	74.6	
83 1-Methylnaphthalene	142	8.429	8.429	0.000	99	367160	80.0	74.6	
84 Hexachlorocyclopentadiene	237	8.498	8.498	0.000	93	112756	80.0	77.5	
85 1,2,4,5-Tetrachlorobenzene	216	8.514	8.509	0.005	95	179819	80.0	76.9	
86 2,4,6-Trichlorophenol	196	8.658	8.658	0.000	97	121146	80.0	76.5	
87 2,4,5-Trichlorophenol	196	8.706	8.712	-0.006	99	132109	80.0	81.0	
90 1,1'-Biphenyl	154	8.872	8.867	0.005	99	471357	80.0	76.1	
91 2-Chloronaphthalene	162	8.888	8.883	0.005	99	366109	80.0	76.5	
93 2-Nitroaniline	65	9.022	9.016	0.006	96	130748	80.0	80.8	
96 Dimethyl phthalate	163	9.257	9.246	0.011	100	442523	80.0	76.1	
97 1,3-Dinitrobenzene	168	9.289	9.278	0.011	47	75771	80.0	78.4	
99 2,6-Dinitrotoluene	165	9.321	9.310	0.011	68	104024	80.0	78.1	
100 Acenaphthylene	152	9.374	9.369	0.005	98	579122	80.0	75.8	
101 3-Nitroaniline	138	9.518	9.508	0.010	98	119811	80.0	80.0	
102 Acenaphthene	153	9.577	9.577	0.000	99	375632	80.0	76.3	
103 2,4-Dinitrophenol	184	9.652	9.636	0.016	91	143749	160.0	157.2	
104 4-Nitrophenol	109	9.769	9.753	0.016	91	173847	160.0	154.8	
107 Dibenzofuran	168	9.785	9.780	0.005	98	521947	80.0	75.8	
106 2,4-Dinitrotoluene	165	9.796	9.785	0.011	87	142928	80.0	77.2	
110 2,3,4,6-Tetrachlorophenol	232	9.940	9.935	0.005	98	102695	80.0	80.9	
112 Diethyl phthalate	149	10.079	10.069	0.010	100	471089	80.0	76.0	
138 Hexadecane	57	10.101	10.095	0.006	93	319379	80.0	75.6	
115 Fluorene	166	10.175	10.170	0.005	98	405860	80.0	74.8	
116 4-Chlorophenyl phenyl ethe	204	10.181	10.181	0.000	90	206182	80.0	74.5	
118 4-Nitroaniline	138	10.240	10.213	0.027	88	116126	80.0	80.3	
119 4,6-Dinitro-2-methylphenol	198	10.261	10.245	0.016	90	187232	160.0	164.1	
120 N-Nitrosodiphenylamine	169	10.320	10.314	0.006	97	303375	80.0	76.4	
122 Azobenzene	77	10.357	10.352	0.005	95	444167	80.0	76.4	
123 1,2-Diphenylhydrazine	77	10.357	10.352	0.005	97	444167	80.0	75.9	
130 4-Bromophenyl phenyl ether	248	10.710	10.704	0.006	98	119810	80.0	75.6	
131 Hexachlorobenzene	284	10.763	10.763	0.000	97	137329	80.0	74.6	
133 Atrazine	200	10.907	10.897	0.010	93	128977	80.0	76.6	
134 Pentachlorophenol	266	10.982	10.977	0.005	96	172349	160.0	153.9	
113 n-Octadecane	57	11.078	11.073	0.005	85	332670	80.0	75.6	
141 Phenanthrene	178	11.185	11.180	0.005	100	623284	80.0	74.5	
142 Anthracene	178	11.233	11.228	0.005	99	648478	80.0	75.2	
143 Carbazole	167	11.404	11.399	0.005	98	568413	80.0	75.4	
145 Di-n-butyl phthalate	149	11.741	11.741	0.000	100	781642	80.0	76.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
152 Fluoranthene	202	12.307	12.302	0.005	99	684686	80.0	75.7	
154 Benzidine	184	12.435	12.430	0.005	100	403975	80.0	83.3	
155 Pyrene	202	12.510	12.505	0.005	98	701606	80.0	75.8	
162 Butyl benzyl phthalate	149	13.071	13.071	0.000	97	379626	80.0	76.7	
166 3,3'-Dichlorobenzidine	252	13.536	13.530	0.006	56	286073	80.0	79.5	
167 Benzo[a]anthracene	228	13.557	13.557	0.000	69	706101	80.0	76.7	
172 Bis(2-ethylhexyl) phthalat	149	13.562	13.562	0.000	93	558334	80.0	77.7	
169 Chrysene	228	13.594	13.589	0.005	98	653678	80.0	76.6	
168 Di-n-octyl phthalate	149	14.097	14.097	0.000	99	924523	80.0	76.0	
174 Benzo[b]fluoranthene	252	14.460	14.455	0.005	96	806270	80.0	80.3	
175 Benzo[k]fluoranthene	252	14.487	14.481	0.006	95	740647	80.0	71.0	
177 Benzo[a]pyrene	252	14.754	14.743	0.011	99	718447	80.0	75.9	
180 Indeno[1,2,3-cd]pyrene	276	15.860	15.844	0.016	69	850545	80.0	78.5	
181 Dibenz(a,h)anthracene	278	15.860	15.849	0.011	88	728145	80.0	80.5	
182 Benzo[g,h,i]perylene	276	16.159	16.143	0.016	96	695221	80.0	78.2	
S 238 3-Methylphenol	1				0			77.7	
S 236 3 & 4 Methylphenol	108				0			77.7	
S 237 Total Cresols	1				0			154.8	

Reagents:

MB_LIST1_WRK_00005	Amount Added: 1.00	Units: mL	
MB_INTSTD_STK_00009	Amount Added: 20.00	Units: uL	Run Reagent

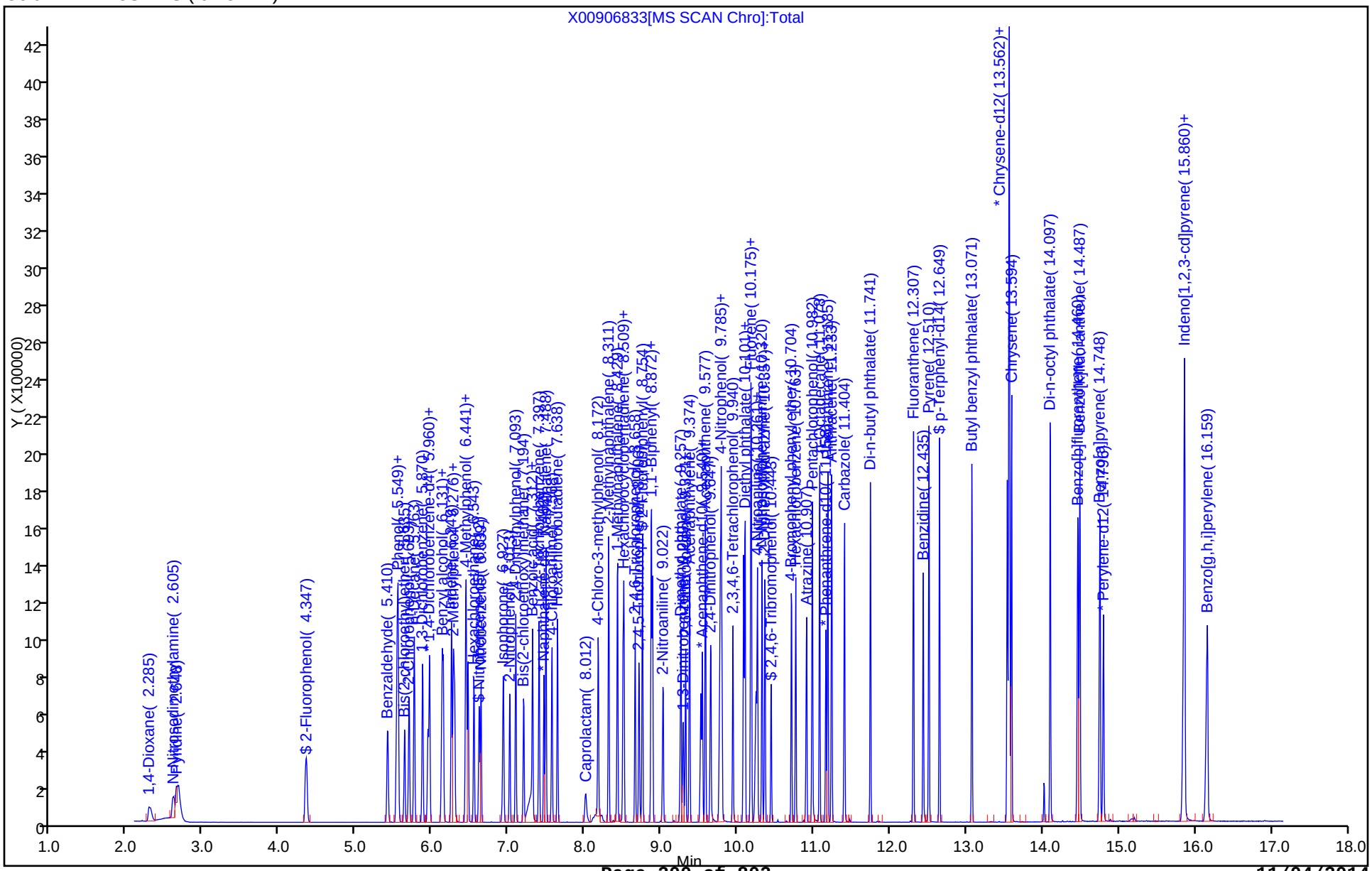
Report Date: 16-Oct-2014 15:17:26 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973X\20141016-36383.b\X00906833.D

Injection Date:	16-Oct-2014 09:54:30	Instrument ID:	HP5973X	Operator ID:	LMW
Lims ID:	IC - LIST 1 -80PT			Worklist Smp#:	6
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	X-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973X\20141016-36383.b\X00906834.D
Lims ID: IC - LIST 1 - 120PT
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 16-Oct-2014 10:19:30 ALS Bottle#: 5 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 480-0036383-007
Operator ID: LMW Instrument ID: HP5973X
Sublist: chrom-X-8270*sub73

Method: \\Bufchrom\ChromData\HP5973X\20141016-36383.b\X-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 16-Oct-2014 15:17:28 Calib Date: 16-Oct-2014 10:43:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5973X\20141016-36383.b\X00906835.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK035

First Level Reviewer: WolfL Date: 16-Oct-2014 11:44:55

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.939	5.944	-0.005	96	64146	40.0	40.0	
* 2 Naphthalene-d8	136	7.461	7.467	-0.006	99	259700	40.0	40.0	
* 3 Acenaphthene-d10	164	9.540	9.540	0.000	99	149033	40.0	40.0	
* 4 Phenanthrene-d10	188	11.158	11.158	0.000	99	266146	40.0	40.0	
* 5 Chrysene-d12	240	13.573	13.568	0.005	98	303224	40.0	40.0	
* 6 Perylene-d12	264	14.802	14.797	0.006	99	310020	40.0	40.0	
$ 7 2-Fluorophenol	112	4.342	4.352	-0.010	97	228859	120.0	122.1	
$ 8 Phenol-d5	99	5.533	5.533	0.000	93	281063	120.0	122.2	
$ 9 Nitrobenzene-d5	82	6.617	6.612	0.005	97	257093	120.0	122.1	
$ 10 2-Fluorobiphenyl	172	8.754	8.754	0.000	100	497812	120.0	119.2	
$ 11 2,4,6-Tribromophenol	330	10.442	10.437	0.005	97	86748	120.0	127.6	
$ 12 p-Terphenyl-d14	244	12.654	12.649	0.005	99	604078	120.0	118.1	
15 1,4-Dioxane	88	2.290	2.306	-0.016	93	85930	120.0	117.8	
16 N-Nitrosodimethylamine	42	2.600	2.606	-0.006	91	137451	120.0	120.2	
17 Pyridine	52	2.664	2.670	-0.006	94	223551	120.0	124.2	
27 Benzaldehyde	77	5.410	5.416	-0.006	91	121944	120.0	120.9	
28 Phenol	94	5.549	5.549	0.000	90	309963	120.0	121.6	
29 Aniline	93	5.549	5.549	0.000	90	363080	120.0	121.2	
31 Bis(2-chloroethyl)ether	93	5.640	5.635	0.005	97	223064	120.0	120.9	
32 2-Chlorophenol	128	5.699	5.699	0.000	98	249773	120.0	122.2	
35 n-Decane	57	5.763	5.768	-0.005	96	303626	120.0	117.3	
36 1,3-Dichlorobenzene	146	5.875	5.875	0.000	97	271552	120.0	119.3	
37 1,4-Dichlorobenzene	146	5.960	5.966	-0.006	98	273914	120.0	118.7	
38 Benzyl alcohol	108	6.131	6.126	0.005	96	163272	120.0	126.4	
39 1,2-Dichlorobenzene	146	6.142	6.147	-0.005	96	260694	120.0	120.2	
229 Indene	115	6.249	6.254	-0.005	0	398140	120.0	119.8	
40 2-Methylphenol	108	6.275	6.276	-0.001	98	219267	120.0	122.8	
42 2,2'-oxybis[1-chloropropan	45	6.292	6.292	0.000	91	373496	120.0	116.1	
45 Acetophenone	105	6.441	6.436	0.005	93	334133	120.0	120.5	
47 N-Nitrosodi-n-propylamine	70	6.452	6.441	0.011	97	168239	120.0	123.3	
46 4-Methylphenol	108	6.468	6.468	0.000	93	229692	120.0	124.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
50 Hexachloroethane	117	6.543	6.548	-0.005	95	111588	120.0	120.0	
52 Nitrobenzene	77	6.639	6.634	0.005	98	250155	120.0	121.9	
56 Isophorone	82	6.933	6.922	0.011	99	445328	120.0	119.1	
58 2-Nitrophenol	139	7.018	7.018	0.000	90	139153	120.0	122.6	
59 2,4-Dimethylphenol	107	7.098	7.093	0.005	97	258869	120.0	120.3	
62 Bis(2-chloroethoxy)methane	93	7.200	7.195	0.006	99	265697	120.0	120.7	
64 Benzoic acid	105	7.312	7.232	0.080	83	178221	120.0	120.8	
65 2,4-Dichlorophenol	162	7.317	7.317	0.000	98	200202	120.0	121.5	
67 1,2,4-Trichlorobenzene	180	7.397	7.403	-0.006	98	225441	120.0	116.5	
69 Naphthalene	128	7.488	7.488	0.000	99	688840	120.0	116.9	
71 4-Chloroaniline	127	7.568	7.568	0.000	99	306430	120.0	122.1	
73 Hexachlorobutadiene	225	7.643	7.643	0.000	98	137054	120.0	118.6	
78 Caprolactam	113	8.017	7.969	0.048	95	36800	120.0	120.1	
79 4-Chloro-3-methylphenol	107	8.177	8.172	0.005	96	228945	120.0	124.3	
82 2-Methylnaphthalene	142	8.311	8.311	0.000	98	466751	120.0	116.9	
83 1-Methylnaphthalene	142	8.428	8.429	-0.001	99	441613	120.0	118.4	
84 Hexachlorocyclopentadiene	237	8.498	8.498	0.000	96	139361	120.0	122.2	
85 1,2,4,5-Tetrachlorobenzene	216	8.514	8.509	0.005	99	216303	120.0	120.1	
86 2,4,6-Trichlorophenol	196	8.658	8.658	0.000	97	150523	120.0	123.4	
87 2,4,5-Trichlorophenol	196	8.712	8.712	0.000	98	159845	120.0	127.3	
90 1,1'-Biphenyl	154	8.872	8.867	0.005	98	559234	120.0	117.3	
91 2-Chloronaphthalene	162	8.888	8.883	0.005	99	435996	120.0	118.3	
93 2-Nitroaniline	65	9.027	9.016	0.011	96	154753	120.0	124.2	
96 Dimethyl phthalate	163	9.262	9.246	0.016	100	527437	120.0	117.9	
97 1,3-Dinitrobenzene	168	9.294	9.278	0.016	93	92908	120.0	126.8	
99 2,6-Dinitrotoluene	165	9.326	9.310	0.016	84	125374	120.0	122.2	
100 Acenaphthylene	152	9.374	9.369	0.005	100	694100	120.0	118.0	
101 3-Nitroaniline	138	9.524	9.508	0.016	99	144783	120.0	125.5	
102 Acenaphthene	153	9.582	9.577	0.005	99	445446	120.0	117.4	
103 2,4-Dinitrophenol	184	9.652	9.636	0.016	98	175072	240.0	245.0	
104 4-Nitrophenol	109	9.780	9.753	0.027	95	214928	240.0	245.3	
107 Dibenzofuran	168	9.785	9.780	0.005	98	616996	120.0	116.3	
106 2,4-Dinitrotoluene	165	9.801	9.785	0.016	87	175101	120.0	122.8	
110 2,3,4,6-Tetrachlorophenol	232	9.946	9.935	0.011	98	124582	120.0	127.5	
112 Diethyl phthalate	149	10.085	10.069	0.015	99	567899	120.0	118.9	
138 Hexadecane	57	10.101	10.095	0.006	93	381749	120.0	117.4	
115 Fluorene	166	10.175	10.170	0.005	100	490774	120.0	117.5	
116 4-Chlorophenyl phenyl ethe	204	10.186	10.181	0.005	95	254846	120.0	119.6	
118 4-Nitroaniline	138	10.250	10.213	0.037	89	138975	120.0	124.8	
119 4,6-Dinitro-2-methylphenol	198	10.266	10.245	0.021	91	225110	240.0	258.4	
120 N-Nitrosodiphenylamine	169	10.325	10.314	0.011	98	364980	120.0	120.3	
122 Azobenzene	77	10.362	10.352	0.010	96	535833	120.0	120.6	
123 1,2-Diphenylhydrazine	77	10.362	10.352	0.010	97	535833	120.0	118.9	
130 4-Bromophenyl phenyl ether	248	10.710	10.704	0.006	92	148120	120.0	122.3	
131 Hexachlorobenzene	284	10.768	10.763	0.005	97	167867	120.0	119.4	
133 Atrazine	200	10.913	10.897	0.016	97	153417	120.0	118.3	
134 Pentachlorophenol	266	10.982	10.977	0.005	98	213994	240.0	246.9	
113 n-Octadecane	57	11.078	11.073	0.005	85	395639	120.0	117.7	
141 Phenanthrene	178	11.185	11.180	0.005	100	758870	120.0	118.7	
142 Anthracene	178	11.238	11.228	0.010	99	781735	120.0	118.6	
143 Carbazole	167	11.409	11.399	0.010	100	688381	120.0	119.6	
145 Di-n-butyl phthalate	149	11.746	11.741	0.005	100	928896	120.0	118.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
152 Fluoranthene	202	12.312	12.302	0.010	99	826835	120.0	119.7	
154 Benzidine	184	12.435	12.430	0.005	100	422551	120.0	109.2	
155 Pyrene	202	12.515	12.505	0.010	99	852781	120.0	115.5	
162 Butyl benzyl phthalate	149	13.076	13.071	0.005	99	465387	120.0	117.8	
166 3,3'-Dichlorobenzidine	252	13.541	13.530	0.011	86	338655	120.0	117.9	
167 Benzo[a]anthracene	228	13.562	13.557	0.005	95	861046	120.0	117.3	
172 Bis(2-ethylhexyl) phthalat	149	13.562	13.562	0.000	95	671859	120.0	117.1	
169 Chrysene	228	13.600	13.589	0.011	99	786302	120.0	115.4	
168 Di-n-octyl phthalate	149	14.102	14.097	0.005	100	1115729	120.0	114.9	
174 Benzo[b]fluoranthene	252	14.465	14.455	0.010	98	896727	120.0	115.7	
175 Benzo[k]fluoranthene	252	14.492	14.481	0.011	98	998415	120.0	124.1	
177 Benzo[a]pyrene	252	14.759	14.743	0.016	99	875818	120.0	120.0	
180 Indeno[1,2,3-cd]pyrene	276	15.865	15.844	0.021	90	1064000	120.0	127.4	
181 Dibenz(a,h)anthracene	278	15.870	15.849	0.021	92	909250	120.0	130.3	
182 Benzo[g,h,i]perylene	276	16.169	16.143	0.026	98	849056	120.0	123.8	
S 238 3-Methylphenol	1				0			124.3	
S 236 3 & 4 Methylphenol	108				0			124.3	
S 237 Total Cresols	1				0			247.1	

Reagents:

MB_LIST1_WRK_00006	Amount Added: 1.00	Units: mL	
MB_INTSTD_STK_00009	Amount Added: 20.00	Units: uL	Run Reagent

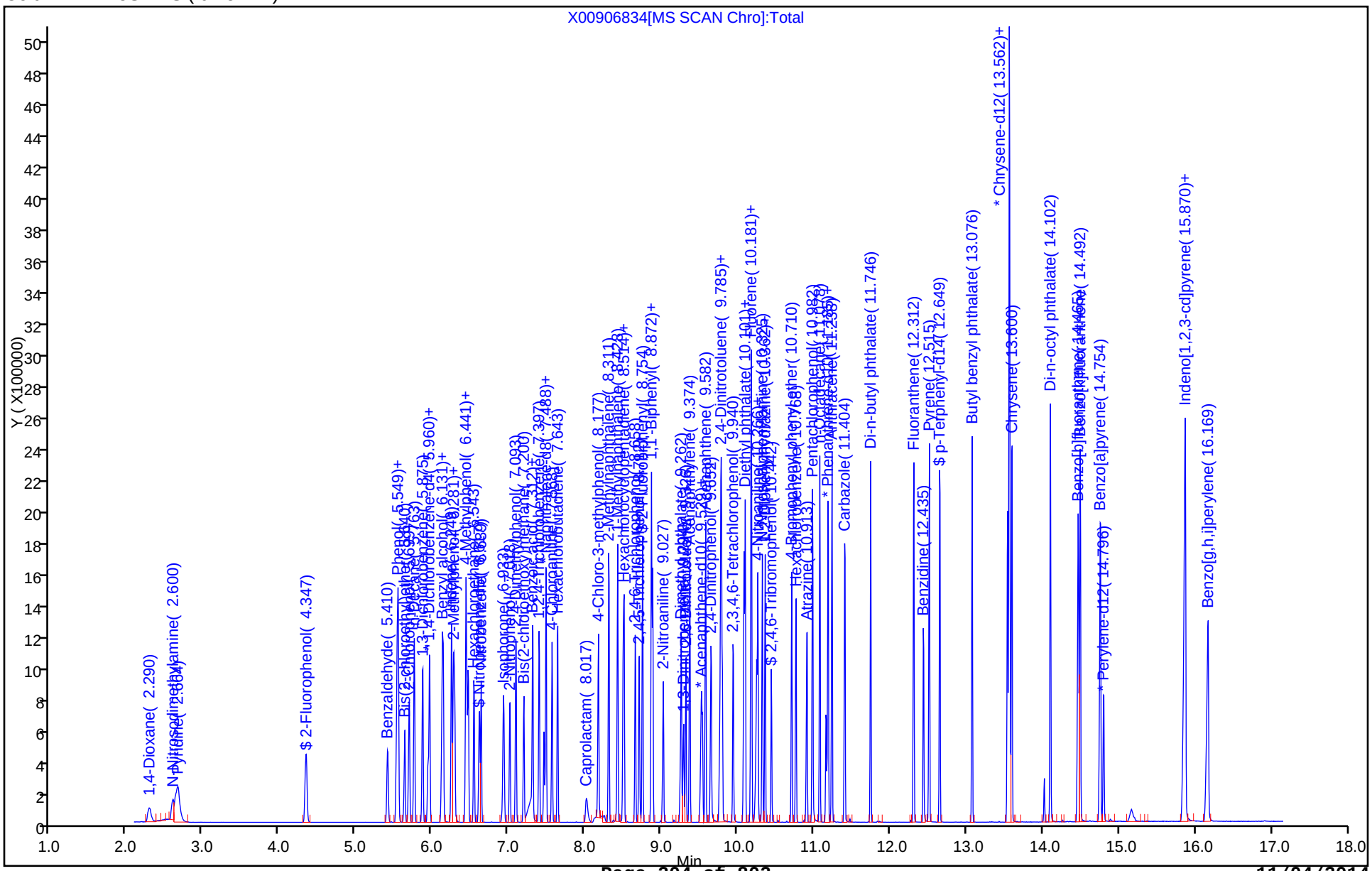
Report Date: 16-Oct-2014 15:17:28 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973X\20141016-36383.b\X00906834.D

Injection Date:	16-Oct-2014 10:19:30	Instrument ID:	HP5973X	Operator ID:	LMW
Lims ID:	IC - LIST 1 - 120PT			Worklist Smp#:	7
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	X-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973X\20141016-36383.b\X00906835.D
Lims ID: IC - LIST 1 - 160PT
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 16-Oct-2014 10:43:30 ALS Bottle#: 6 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 480-0036383-008
Operator ID: LMW Instrument ID: HP5973X
Sublist: chrom-X-8270*sub73

Method: \\Bufchrom\ChromData\HP5973X\20141016-36383.b\X-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 16-Oct-2014 15:17:29 Calib Date: 16-Oct-2014 10:43:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5973X\20141016-36383.b\X00906835.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK035

First Level Reviewer: WolfL Date: 16-Oct-2014 11:44:32

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.944	5.944	0.000	96	67538	40.0	40.0	
* 2 Naphthalene-d8	136	7.467	7.467	0.000	99	267451	40.0	40.0	
* 3 Acenaphthene-d10	164	9.545	9.540	0.005	97	153703	40.0	40.0	
* 4 Phenanthrene-d10	188	11.164	11.158	0.006	99	278590	40.0	40.0	
* 5 Chrysene-d12	240	13.578	13.568	0.010	98	318123	40.0	40.0	
* 6 Perylene-d12	264	14.807	14.797	0.011	99	329909	40.0	40.0	
$ 7 2-Fluorophenol	112	4.352	4.352	0.000	97	306103	160.0	155.2	
$ 8 Phenol-d5	99	5.544	5.533	0.011	93	379658	160.0	156.8	
$ 9 Nitrobenzene-d5	82	6.623	6.612	0.011	98	346509	160.0	159.8	
$ 10 2-Fluorobiphenyl	172	8.760	8.754	0.006	100	660398	160.0	153.4	
$ 11 2,4,6-Tribromophenol	330	10.453	10.437	0.016	97	117603	160.0	165.3	
$ 12 p-Terphenyl-d14	244	12.654	12.649	0.005	98	807425	160.0	150.4	
15 1,4-Dioxane	88	2.306	2.306	0.000	92	113571	160.0	147.9	
16 N-Nitrosodimethylamine	42	2.616	2.606	0.010	89	183818	160.0	152.7	
17 Pyridine	52	2.680	2.670	0.010	94	298389	160.0	157.5	
27 Benzaldehyde	77	5.421	5.416	0.005	92	138760	160.0	157.3	
28 Phenol	94	5.560	5.549	0.011	81	417327	160.0	155.5	
29 Aniline	93	5.560	5.549	0.011	89	486760	160.0	154.3	
31 Bis(2-chloroethyl)ether	93	5.645	5.635	0.010	97	298496	160.0	153.6	
32 2-Chlorophenol	128	5.704	5.699	0.005	98	333085	160.0	154.7	
35 n-Decane	57	5.768	5.768	0.000	98	402535	160.0	147.6	
36 1,3-Dichlorobenzene	146	5.880	5.875	0.005	97	358971	160.0	149.7	
37 1,4-Dichlorobenzene	146	5.971	5.966	0.005	98	365637	160.0	150.5	
38 Benzyl alcohol	108	6.137	6.126	0.011	95	217908	160.0	160.3	
39 1,2-Dichlorobenzene	146	6.147	6.147	0.000	98	344661	160.0	150.9	
229 Indene	115	6.254	6.254	0.000	0	537490	160.0	154.5	
40 2-Methylphenol	108	6.281	6.276	0.005	97	293281	160.0	156.0	
42 2,2'-oxybis[1-chloropropan	45	6.297	6.292	0.005	92	486921	160.0	143.8	
45 Acetophenone	105	6.447	6.436	0.011	94	450679	160.0	154.4	
47 N-Nitrosodi-n-propylamine	70	6.457	6.441	0.016	97	221913	160.0	154.4	
46 4-Methylphenol	108	6.479	6.468	0.011	95	303933	160.0	156.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
50 Hexachloroethane	117	6.548	6.548	0.000	95	149654	160.0	152.9	
52 Nitrobenzene	77	6.650	6.634	0.016	98	332944	160.0	157.5	
56 Isophorone	82	6.943	6.922	0.021	99	598984	160.0	155.5	
58 2-Nitrophenol	139	7.024	7.018	0.006	91	185643	160.0	158.9	
59 2,4-Dimethylphenol	107	7.104	7.093	0.011	98	351007	160.0	158.3	
62 Bis(2-chloroethoxy)methane	93	7.205	7.195	0.011	99	354890	160.0	156.6	
64 Benzoic acid	105	7.339	7.232	0.107	58	251590	160.0	162.5	
65 2,4-Dichlorophenol	162	7.323	7.317	0.006	98	267168	160.0	157.4	
67 1,2,4-Trichlorobenzene	180	7.403	7.403	0.000	98	306211	160.0	153.6	
69 Naphthalene	128	7.499	7.488	0.011	100	906452	160.0	149.3	
71 4-Chloroaniline	127	7.574	7.568	0.006	99	405995	160.0	157.1	
73 Hexachlorobutadiene	225	7.649	7.643	0.006	99	186937	160.0	157.1	
78 Caprolactam	113	8.055	7.969	0.086	92	50773	160.0	163.2	M
79 4-Chloro-3-methylphenol	107	8.183	8.172	0.011	98	301816	160.0	159.1	
82 2-Methylnaphthalene	142	8.322	8.311	0.011	98	619931	160.0	150.8	
83 1-Methylnaphthalene	142	8.434	8.429	0.005	98	585638	160.0	152.4	
84 Hexachlorocyclopentadiene	237	8.509	8.498	0.011	96	196349	160.0	165.6	
85 1,2,4,5-Tetrachlorobenzene	216	8.519	8.509	0.010	99	289601	160.0	155.9	
86 2,4,6-Trichlorophenol	196	8.669	8.658	0.011	98	204526	160.0	162.6	
87 2,4,5-Trichlorophenol	196	8.717	8.712	0.005	99	214137	160.0	165.4	
90 1,1'-Biphenyl	154	8.877	8.867	0.010	98	737860	160.0	150.0	
91 2-Chloronaphthalene	162	8.893	8.883	0.010	98	583231	160.0	153.5	
93 2-Nitroaniline	65	9.038	9.016	0.022	96	211529	160.0	164.6	
96 Dimethyl phthalate	163	9.273	9.246	0.027	100	702202	160.0	152.1	
97 1,3-Dinitrobenzene	168	9.305	9.278	0.027	90	123948	160.0	164.3	
99 2,6-Dinitrotoluene	165	9.337	9.310	0.027	85	167550	160.0	158.4	
100 Acenaphthylene	152	9.379	9.369	0.010	100	921511	160.0	151.9	
101 3-Nitroaniline	138	9.540	9.508	0.032	98	194028	160.0	163.1	
102 Acenaphthene	153	9.588	9.577	0.011	99	598159	160.0	152.9	
103 2,4-Dinitrophenol	184	9.668	9.636	0.032	96	241588	320.0	325.8	
104 4-Nitrophenol	109	9.791	9.753	0.038	54	295045	320.0	324.7	
107 Dibenzofuran	168	9.796	9.780	0.016	93	823871	160.0	150.6	
106 2,4-Dinitrotoluene	165	9.812	9.785	0.027	92	234496	160.0	159.4	
110 2,3,4,6-Tetrachlorophenol	232	9.951	9.935	0.016	98	170730	160.0	169.4	
112 Diethyl phthalate	149	10.095	10.069	0.026	100	766767	160.0	155.7	
138 Hexadecane	57	10.106	10.095	0.011	93	494815	160.0	147.5	
115 Fluorene	166	10.181	10.170	0.011	99	656685	160.0	152.4	
116 4-Chlorophenyl phenyl ethe	204	10.191	10.181	0.010	94	339398	160.0	154.4	
118 4-Nitroaniline	138	10.266	10.213	0.053	87	190705	160.0	166.0	
119 4,6-Dinitro-2-methylphenol	198	10.282	10.245	0.037	97	306214	320.0	335.8	
120 N-Nitrosodiphenylamine	169	10.336	10.314	0.022	98	486598	160.0	153.2	
122 Azobenzene	77	10.368	10.352	0.016	96	714218	160.0	153.6	
123 1,2-Diphenylhydrazine	77	10.368	10.352	0.016	98	714218	160.0	153.6	
130 4-Bromophenyl phenyl ether	248	10.715	10.704	0.011	93	202293	160.0	159.6	
131 Hexachlorobenzene	284	10.774	10.763	0.011	98	230372	160.0	156.5	
133 Atrazine	200	10.918	10.897	0.021	96	198947	160.0	148.7	
134 Pentachlorophenol	266	10.987	10.977	0.010	98	298855	320.0	327.6	
113 n-Octadecane	57	11.084	11.073	0.011	85	522984	160.0	148.7	
141 Phenanthrene	178	11.196	11.180	0.016	100	1000005	160.0	149.5	
142 Anthracene	178	11.244	11.228	0.016	99	1032792	160.0	149.7	
143 Carbazole	167	11.410	11.399	0.011	99	911407	160.0	151.2	
145 Di-n-butyl phthalate	149	11.746	11.741	0.005	100	1216547	160.0	148.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
152 Fluoranthene	202	12.312	12.302	0.010	99	1106247	160.0	152.9	
154 Benzidine	184	12.441	12.430	0.011	100	489719	160.0	120.6	
155 Pyrene	202	12.521	12.505	0.016	99	1130433	160.0	145.9	
162 Butyl benzyl phthalate	149	13.082	13.071	0.011	99	614985	160.0	148.4	
166 3,3'-Dichlorobenzidine	252	13.546	13.530	0.016	86	437554	160.0	145.2	
167 Benzo[a]anthracene	228	13.568	13.557	0.011	96	1158058	160.0	150.3	
172 Bis(2-ethylhexyl) phthalat	149	13.568	13.562	0.006	95	881697	160.0	146.5	
169 Chrysene	228	13.605	13.589	0.016	99	1049629	160.0	146.9	
168 Di-n-octyl phthalate	149	14.107	14.097	0.010	99	1431629	160.0	140.6	
174 Benzo[b]fluoranthene	252	14.476	14.455	0.021	99	1301153	160.0	157.8	
175 Benzo[k]fluoranthene	252	14.503	14.481	0.022	99	1260921	160.0	147.3	
177 Benzo[a]pyrene	252	14.764	14.743	0.021	99	1203730	160.0	154.9	
180 Indeno[1,2,3-cd]pyrene	276	15.892	15.844	0.048	89	1516680	160.0	170.6	
181 Dibenz(a,h)anthracene	278	15.886	15.849	0.037	89	1246334	160.0	167.9	
182 Benzo[g,h,i]perylene	276	16.185	16.143	0.042	98	1224335	160.0	167.7	
S 238 3-Methylphenol	1				0			156.2	
S 236 3 & 4 Methylphenol	108				0			156.2	
S 237 Total Cresols	1				0			312.2	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

MB_LIST1_WRK_00007	Amount Added: 1.00	Units: mL	
MB_INTSTD_STK_00009	Amount Added: 20.00	Units: uL	Run Reagent

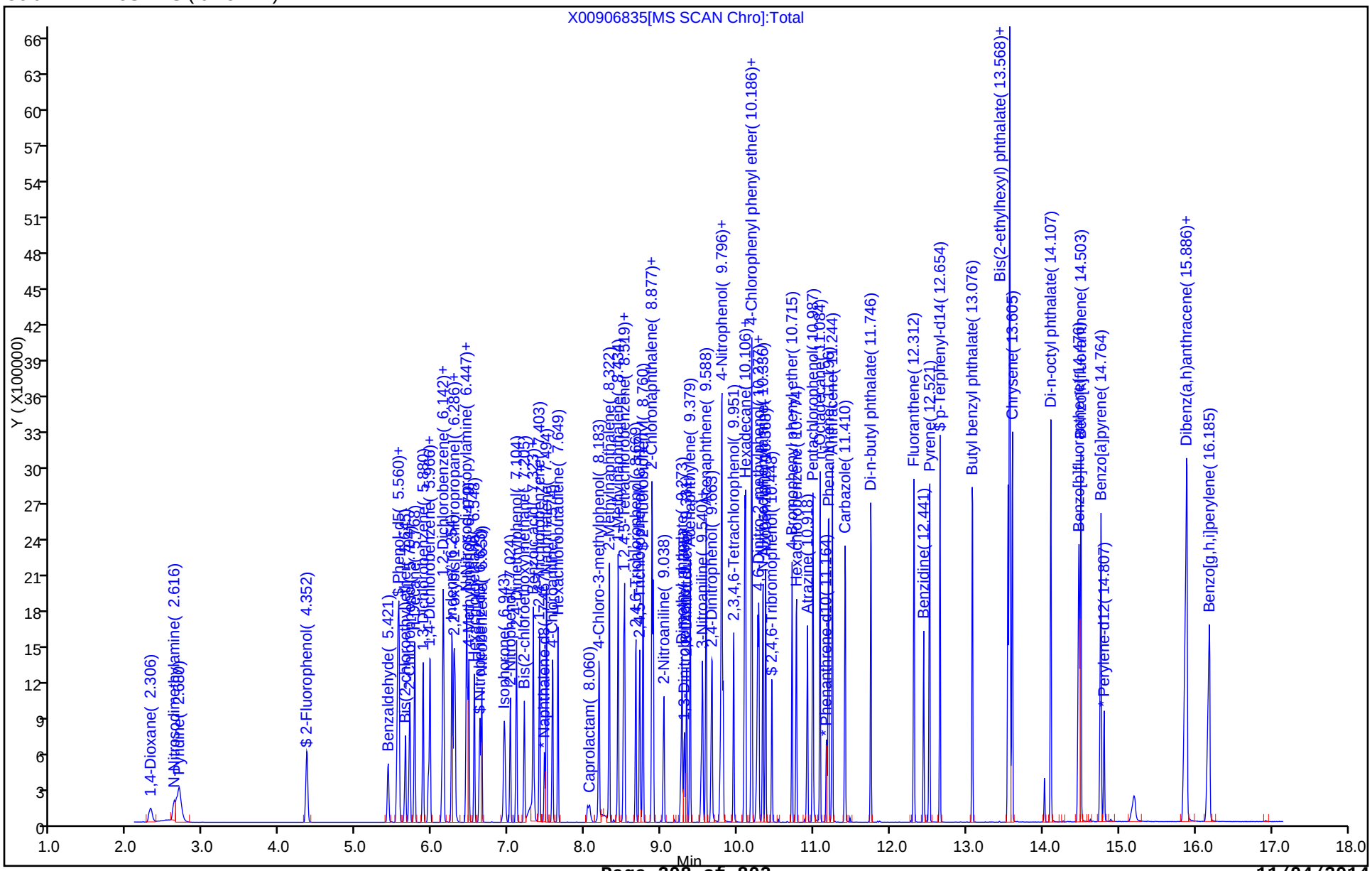
Report Date: 16-Oct-2014 15:17:30 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973X\20141016-36383.b\X00906835.D

Injection Date:	16-Oct-2014 10:43:30	Instrument ID:	HP5973X	Operator ID:	LMW
Lims ID:	IC - LIST 1 - 160PT			Worklist Smp#:	8
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	X-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



Manual Integration/User Assign Peak Report

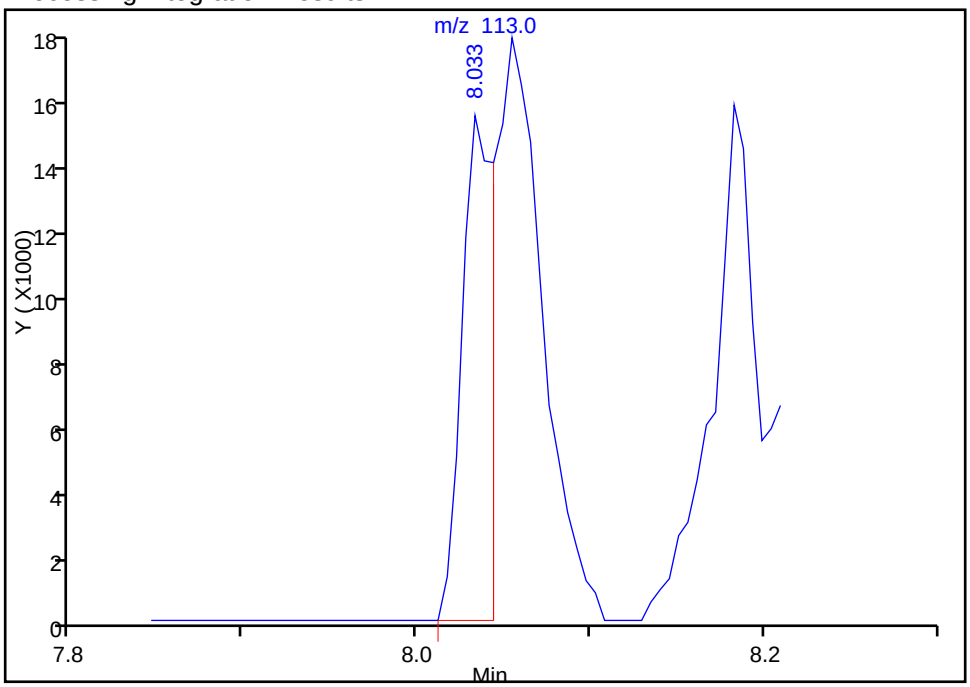
TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973X\20141016-36383.b\X00906835.D
Injection Date: 16-Oct-2014 10:43:30 Instrument ID: HP5973X
Lims ID: IC - LIST 1 - 160PT
Client ID:
Operator ID: LMW ALS Bottle#: 6 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: X-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

78 Caprolactam, CAS: 105-60-2

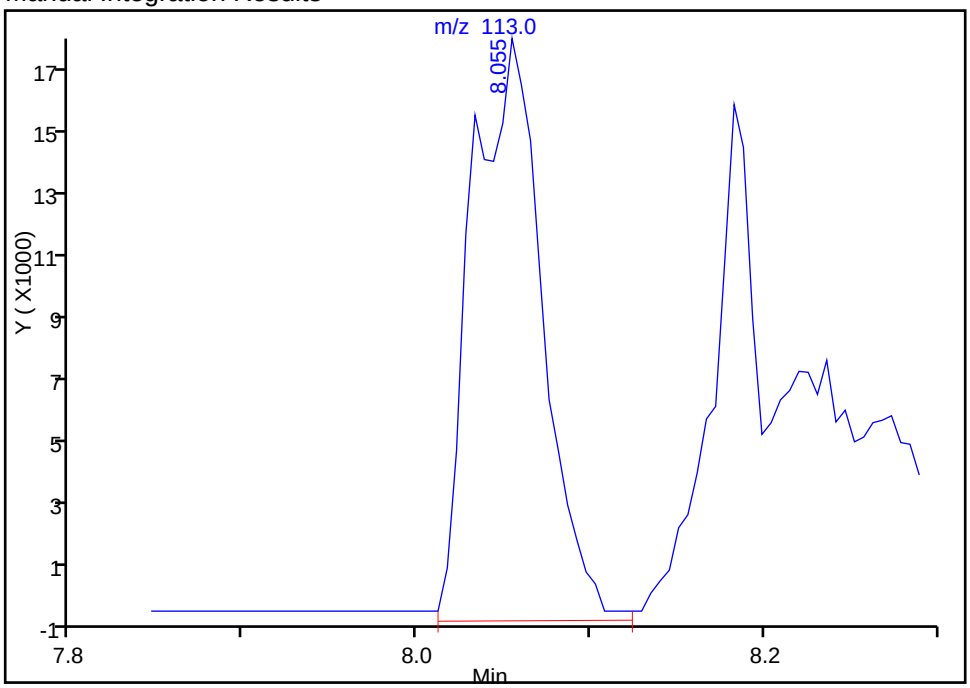
Processing Integration Results

RT: 8.03
Response: 19309
Amount: 52.747508



Manual Integration Results

RT: 8.05
Response: 50773
Amount: 163.1695



Reviewer: WolfL, 16-Oct-2014 14:23:26
Audit Action: Assigned New Baseline
Audit Reason: Poor chromatography

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-70101-1

SDG No.:

Lab Sample ID: CCVIS 480-210655/3 Calibration Date: 10/29/2014 08:36

Instrument ID: HP5973X Calib Start Date: 10/16/2014 08:43

GC Column: RXI-5Sil MS ID: 0.25(mm) Calib End Date: 10/16/2014 10:43

Lab File ID: X00905560.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.4548	0.4190	0.0100	46100	50000	-7.9	50.0
N-Nitrosodimethylamine	Ave	0.7130	0.7515	0.0100	52700	50000	5.4	25.0
Pyridine	Ave	1.122	1.147	0.0100	51100	50000	2.2	50.0
Benzaldehyde	Qua		0.4614	0.0100	25700	50000	-48.7*	40.0
Aniline	Ave	1.869	1.733	0.0100	46400	50000	-7.3	50.0
Phenol	Ave	1.590	1.493	0.8000	47000	50000	-6.1	20.0
Bis(2-chloroethyl)ether	Ave	1.151	1.048	0.7000	45500	50000	-8.9	20.0
2-Chlorophenol	Ave	1.275	1.225	0.8000	48000	50000	-3.9	20.0
n-Decane	Ave	1.615	1.541	0.0100	47700	50000	-4.6	40.0
1,3-Dichlorobenzene	Ave	1.420	1.354	0.0100	47700	50000	-4.6	20.0
1,4-Dichlorobenzene	Ave	1.439	1.358	0.0100	47200	50000	-5.6	20.0
Benzyl alcohol	Ave	0.8053	0.7708	0.0100	47900	50000	-4.3	50.0
1,2-Dichlorobenzene	Ave	1.353	1.260	0.0100	46600	50000	-6.8	20.0
Indene	Ave	0.4995	0.5039		50400	50000	0.9	
2-Methylphenol	Ave	1.113	1.045	0.7000	46900	50000	-6.2	20.0
bis (2-chloroisopropyl) ether	Ave	2.006	1.977	0.0100	49300	50000	-1.5	20.0
Acetophenone	Ave	1.729	1.620	0.0100	46800	50000	-6.3	40.0
N-Nitrosodi-n-propylamine	Ave	0.8510	0.7729	0.5000	45400	50000	-9.2	20.0
4-Methylphenol	Ave	1.153	1.100	0.6000	47700	50000	-4.6	20.0
Hexachloroethane	Ave	0.5798	0.5394	0.3000	46500	50000	-7.0	20.0
Nitrobenzene	Ave	0.3162	0.3103	0.2000	49100	50000	-1.9	20.0
Isophorone	Ave	0.5760	0.5516	0.4000	47900	50000	-4.2	20.0
2-Nitrophenol	Ave	0.1748	0.1727	0.1000	49400	50000	-1.2	20.0
2,4-Dimethylphenol	Ave	0.3316	0.3185	0.2000	48000	50000	-3.9	20.0
Bis(2-chloroethoxy)methane	Ave	0.3390	0.3271	0.3000	48200	50000	-3.5	20.0
Benzoic acid	Lin1		0.2164	0.0100	52700	50000	5.5	25.0
2,4-Dichlorophenol	Ave	0.2538	0.2528	0.2000	49800	50000	-0.4	20.0
1,2,4-Trichlorobenzene	Ave	0.2981	0.2889	0.0100	48500	50000	-3.1	20.0
Naphthalene	Ave	0.9079	0.8943	0.7000	49300	50000	-1.5	20.0
4-Chloroaniline	Ave	0.3866	0.3832	0.0100	49600	50000	-0.9	20.0
Hexachlorobutadiene	Ave	0.1780	0.1759	0.0100	49400	50000	-1.1	20.0
Caprolactam	Lin1		0.0762	0.0100	78500	50000	57.0*	40.0
4-Chloro-3-methylphenol	Ave	0.2837	0.2772	0.2000	48800	50000	-2.3	20.0
2-Methylnaphthalene	Ave	0.6148	0.6090	0.4000	49500	50000	-1.0	20.0
1-Methylnaphthalene	Ave	0.5746	0.5674	0.0100	49400	50000	-1.3	40.0
Hexachlorocyclopentadiene	Lin1		0.2686	0.0500	46200	50000	-7.7	20.0
1,2,4,5-Tetrachlorobenzene	Ave	0.4835	0.4916	0.0100	50800	50000	1.7	40.0
2,4,6-Trichlorophenol	Ave	0.3273	0.3382	0.2000	51700	50000	3.3	20.0
2,4,5-Trichlorophenol	Ave	0.3369	0.3505	0.2000	52000	50000	4.0	20.0
Biphenyl	Ave	1.280	1.304	0.0100	51000	50000	1.9	40.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-70101-1

SDG No.:

Lab Sample ID: CCVIS 480-210655/3 Calibration Date: 10/29/2014 08:36

Instrument ID: HP5973X Calib Start Date: 10/16/2014 08:43

GC Column: RXI-5Sil MS ID: 0.25(mm) Calib End Date: 10/16/2014 10:43

Lab File ID: X00905560.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2-Chloronaphthalene	Ave	0.9889	0.9914	0.8000	50100	50000	0.3	25.0
2-Nitroaniline	Ave	0.3344	0.3490	0.0100	52200	50000	4.4	20.0
Dimethyl phthalate	Ave	1.201	1.205	0.0100	50200	50000	0.4	20.0
1,3-Dinitrobenzene	Ave	0.1128	0.1113	0.0100	49300	50000	-1.4	50.0
2,6-Dinitrotoluene	Ave	0.2753	0.2790	0.2000	50700	50000	1.3	25.0
Acenaphthylene	Ave	1.579	1.595	0.9000	50500	50000	1.1	20.0
3-Nitroaniline	Ave	0.3096	0.3145	0.0100	50800	50000	1.6	20.0
Acenaphthene	Ave	1.018	1.030	0.0100	50600	50000	1.2	20.0
2,4-Dinitrophenol	Lin1		0.1777	0.0100	96500	100000	-3.5	20.0
4-Nitrophenol	Lin1		0.2294	0.0100	101000	100000	0.8	20.0
Dibenzofuran	Ave	1.424	1.436	0.8000	50400	50000	0.9	20.0
2,4-Dinitrotoluene	Ave	0.3828	0.3884	0.0100	50700	50000	1.5	20.0
2,3,4,6-Tetrachlorophenol	Ave	0.2623	0.2708	0.0100	51600	50000	3.2	40.0
Diethyl phthalate	Ave	1.282	1.317	0.0100	51400	50000	2.7	20.0
Hexadecane	Ave	0.8729	0.9132	0.0100	52300	50000	4.6	40.0
Fluorene	Ave	1.121	1.112	0.9000	49600	50000	-0.8	20.0
4-Chlorophenyl phenyl ether	Ave	0.5720	0.5785	0.4000	50600	50000	1.1	20.0
4-Nitroaniline	Ave	0.2989	0.3086	0.0100	51600	50000	3.2	20.0
4,6-Dinitro-2-methylphenol	Ave	0.1309	0.1350	0.0100	103000	100000	3.1	20.0
N-Nitrosodiphenylamine	Ave	0.4560	0.4543	0.0100	49800	50000	-0.4	20.0
1,2-Diphenylhydrazine	Ave	1.210	1.229	0.0100	50800	50000	1.6	25.0
trans-Azobenzene	Ave	0.6676	0.6738	0.0100	50500	50000	0.9	40.0
4-Bromophenyl phenyl ether	Ave	0.1820	0.1859	0.1000	51100	50000	2.1	20.0
Hexachlorobenzene	Ave	0.2114	0.2116	0.1000	50100	50000	0.1	20.0
Atrazine	Ave	0.3482	0.3437	0.0100	49400	50000	-1.3	25.0
Pentachlorophenol	Lin1		0.1223	0.0500	97100	100000	-2.9	20.0
n-Octadecane	Ave	0.5051	0.5264	0.0100	52100	50000	4.2	40.0
Phenanthrene	Ave	0.9605	0.9671	0.7000	50300	50000	0.7	20.0
Anthracene	Ave	0.9904	1.000	0.7000	50500	50000	0.9	20.0
Carbazole	Ave	0.8653	0.8706	0.0100	50300	50000	0.6	20.0
Di-n-butyl phthalate	Ave	1.180	1.206	0.0100	51100	50000	2.2	20.0
Fluoranthene	Ave	1.038	1.055	0.6000	50800	50000	1.6	20.0
Benzidine	Ave	0.5105	0.3726	0.0100	36500	50000	-27.0*	25.0
Pyrene	Ave	0.9741	0.9895	0.6000	50800	50000	1.6	20.0
Butyl benzyl phthalate	Ave	0.5210	0.5260	0.0100	50500	50000	1.0	20.0
3,3'-Dichlorobenzidine	Ave	0.3790	0.3554	0.0100	46900	50000	-6.2	20.0
Benzo(a)anthracene	Ave	0.9687	0.9626	0.8000	49700	50000	-0.6	20.0
Bis(2-ethylhexyl) phthalate	Ave	0.7569	0.7774	0.0100	51400	50000	2.7	20.0
Chrysene	Ave	0.8986	0.9227	0.7000	51300	50000	2.7	20.0
Di-n-octyl phthalate	Ave	1.281	1.280	0.0100	50000	50000	-0.0	20.0
Benzo(b)fluoranthene	Ave	1.000	1.088	0.7000	54400	50000	8.8	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-70101-1

SDG No.:

Lab Sample ID: CCVIS 480-210655/3 Calibration Date: 10/29/2014 08:36

Instrument ID: HP5973X Calib Start Date: 10/16/2014 08:43

GC Column: RXI-5Sil MS ID: 0.25(mm) Calib End Date: 10/16/2014 10:43

Lab File ID: X00905560.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Benzo(k)fluoranthene	Ave	1.038	1.049	0.7000	50600	50000	1.1	20.0
Benzo(a)pyrene	Ave	0.9421	1.009	0.7000	53500	50000	7.1	20.0
Indeno(1,2,3-cd)pyrene	Ave	1.078	1.084	0.5000	50300	50000	0.6	20.0
Dibenz(a,h)anthracene	Ave	0.9002	0.9126	0.4000	50700	50000	1.4	20.0
Benzo(g,h,i)perylene	Ave	0.8852	0.8910	0.5000	50300	50000	0.7	20.0
2-Fluorophenol	Ave	1.168	1.111	0.0100	47500	50000	-4.9	25.0
Phenol-d5	Ave	1.434	1.364	0.0100	47500	50000	-4.9	25.0
Nitrobenzene-d5	Ave	0.3243	0.3228	0.0100	49800	50000	-0.5	25.0
2-Fluorobiphenyl	Ave	1.121	1.141	0.0100	50900	50000	1.8	25.0
2,4,6-Tribromophenol	Ave	0.1022	0.1069	0.0100	52300	50000	4.7	25.0
p-Terphenyl-d14	Ave	0.6748	0.6898	0.0100	51100	50000	2.2	25.0

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973X\20141029-36818.b\X00905560.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 29-Oct-2014 08:36:30 ALS Bottle#: 1 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 480-0036818-003
Operator ID: LMW Instrument ID: HP5973X
Sublist: chrom-X-8270*sub73

Method: \\Bufchrom\ChromData\HP5973X\20141029-36818.b\X-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 30-Oct-2014 14:20:37 Calib Date: 16-Oct-2014 10:43:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5973X\20141016-36383.b\X00906835.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK011

First Level Reviewer: WolfL Date: 29-Oct-2014 09:10:57

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.950	5.950	0.000	97	70148	40.0	40.0	
* 2 Naphthalene-d8	136	7.467	7.467	0.000	98	266019	40.0	40.0	
* 3 Acenaphthene-d10	164	9.540	9.540	0.000	98	149785	40.0	40.0	
* 4 Phenanthrene-d10	188	11.158	11.158	0.000	99	273164	40.0	40.0	
* 5 Chrysene-d12	240	13.568	13.568	0.000	98	302100	40.0	40.0	
* 6 Perylene-d12	264	14.802	14.802	0.000	98	291947	40.0	40.0	
$ 7 2-Fluorophenol	112	4.347	4.347	0.000	97	97386	50.0	47.5	
$ 8 Phenol-d5	99	5.538	5.538	0.000	94	119567	50.0	47.5	
$ 9 Nitrobenzene-d5	82	6.617	6.617	0.000	96	107348	50.0	49.8	
$ 10 2-Fluorobiphenyl	172	8.754	8.754	0.000	100	213545	50.0	50.9	
$ 11 2,4,6-Tribromophenol	330	10.443	10.443	0.000	96	36511	50.0	52.3	
$ 12 p-Terphenyl-d14	244	12.649	12.649	0.000	98	260484	50.0	51.1	
15 1,4-Dioxane	88	2.280	2.280	0.000	90	36742	50.0	46.1	
16 N-Nitrosodimethylamine	42	2.595	2.595	0.000	96	65893	50.0	52.7	
17 Pyridine	52	2.648	2.648	0.000	92	100540	50.0	51.1	
27 Benzaldehyde	77	5.415	5.415	0.000	92	40454	50.0	25.7	
29 Aniline	93	5.554	5.554	0.000	75	151965	50.0	46.4	
28 Phenol	94	5.554	5.554	0.000	78	130928	50.0	47.0	
31 Bis(2-chloroethyl)ether	93	5.640	5.640	0.000	98	91890	50.0	45.5	
32 2-Chlorophenol	128	5.699	5.699	0.000	98	107407	50.0	48.0	
35 n-Decane	57	5.763	5.763	0.000	94	135108	50.0	47.7	
36 1,3-Dichlorobenzene	146	5.875	5.875	0.000	97	118733	50.0	47.7	
37 1,4-Dichlorobenzene	146	5.966	5.966	0.000	97	119119	50.0	47.2	
38 Benzyl alcohol	108	6.131	6.131	0.000	95	67589	50.0	47.9	
39 1,2-Dichlorobenzene	146	6.147	6.147	0.000	96	110514	50.0	46.6	
229 Indene	115	6.254	6.254	0.000	0	172065	50.0	50.4	
40 2-Methylphenol	108	6.281	6.281	0.000	97	91604	50.0	46.9	
42 2,2'-oxybis[1-chloropropan	45	6.297	6.297	0.000	91	173315	50.0	49.3	
45 Acetophenone	105	6.441	6.441	0.000	94	142045	50.0	46.8	
47 N-Nitrosodi-n-propylamine	70	6.447	6.447	0.000	95	67767	50.0	45.4	
46 4-Methylphenol	108	6.473	6.473	0.000	96	96432	50.0	47.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
50 Hexachloroethane	117	6.548	6.548	0.000	96	47300	50.0	46.5	
52 Nitrobenzene	77	6.639	6.639	0.000	97	103174	50.0	49.1	
56 Isophorone	82	6.933	6.933	0.000	99	183408	50.0	47.9	
58 2-Nitrophenol	139	7.024	7.024	0.000	93	57432	50.0	49.4	
59 2,4-Dimethylphenol	107	7.098	7.098	0.000	97	105919	50.0	48.0	
62 Bis(2-chloroethoxy)methane	93	7.200	7.200	0.000	99	108775	50.0	48.2	
64 Benzoic acid	105	7.275	7.275	0.000	83	71941	50.0	52.7	
65 2,4-Dichlorophenol	162	7.323	7.323	0.000	98	84054	50.0	49.8	
67 1,2,4-Trichlorobenzene	180	7.403	7.403	0.000	98	96078	50.0	48.5	
69 Naphthalene	128	7.494	7.494	0.000	99	297375	50.0	49.3	
71 4-Chloroaniline	127	7.574	7.574	0.000	99	127436	50.0	49.6	
73 Hexachlorobutadiene	225	7.643	7.643	0.000	98	58495	50.0	49.4	
78 Caprolactam	113	8.012	8.012	0.000	97	25332	50.0	78.5	
79 4-Chloro-3-methylphenol	107	8.183	8.183	0.000	97	92162	50.0	48.8	
82 2-Methylnaphthalene	142	8.316	8.316	0.000	98	202494	50.0	49.5	
83 1-Methylnaphthalene	142	8.429	8.429	0.000	99	188686	50.0	49.4	
84 Hexachlorocyclopentadiene	237	8.503	8.503	0.000	96	50285	50.0	46.2	
85 1,2,4,5-Tetrachlorobenzene	216	8.514	8.514	0.000	99	92047	50.0	50.8	
86 2,4,6-Trichlorophenol	196	8.664	8.664	0.000	98	63315	50.0	51.7	
87 2,4,5-Trichlorophenol	196	8.722	8.722	0.000	99	65627	50.0	52.0	
90 1,1'-Biphenyl	154	8.872	8.872	0.000	100	244242	50.0	51.0	
91 2-Chloronaphthalene	162	8.888	8.888	0.000	99	185622	50.0	50.1	
93 2-Nitroaniline	65	9.027	9.027	0.000	99	65345	50.0	52.2	
96 Dimethyl phthalate	163	9.257	9.257	0.000	99	225702	50.0	50.2	
97 1,3-Dinitrobenzene	168	9.294	9.294	0.000	94	36997	50.0	49.3	
99 2,6-Dinitrotoluene	165	9.321	9.321	0.000	83	52230	50.0	50.7	
100 Acenaphthylene	152	9.374	9.374	0.000	100	298673	50.0	50.5	
101 3-Nitroaniline	138	9.524	9.524	0.000	98	58874	50.0	50.8	
102 Acenaphthene	153	9.582	9.582	0.000	98	192914	50.0	50.6	
103 2,4-Dinitrophenol	184	9.652	9.652	0.000	98	66553	100.0	96.5	
104 4-Nitrophenol	109	9.769	9.769	0.000	90	85901	100.0	100.8	
107 Dibenzofuran	168	9.785	9.785	0.000	98	268916	50.0	50.4	
106 2,4-Dinitrotoluene	165	9.796	9.796	0.000	95	72725	50.0	50.7	
110 2,3,4,6-Tetrachlorophenol	232	9.940	9.940	0.000	97	50706	50.0	51.6	
112 Diethyl phthalate	149	10.079	10.079	0.000	100	246561	50.0	51.4	
138 Hexadecane	57	10.095	10.095	0.000	90	170987	50.0	52.3	
115 Fluorene	166	10.175	10.175	0.000	99	208171	50.0	49.6	
116 4-Chlorophenyl phenyl ethe	204	10.181	10.181	0.000	92	108317	50.0	50.6	
118 4-Nitroaniline	138	10.234	10.234	0.000	91	57774	50.0	51.6	
119 4,6-Dinitro-2-methylphenol	198	10.261	10.261	0.000	90	92215	100.0	103.1	
120 N-Nitrosodiphenylamine	169	10.320	10.320	0.000	98	155134	50.0	49.8	
123 1,2-Diphenylhydrazine	77	10.357	10.357	0.000	96	230075	50.0	50.8	
122 Azobenzene	77	10.357	10.357	0.000	95	230075	50.0	50.5	
130 4-Bromophenyl phenyl ether	248	10.710	10.710	0.000	97	63458	50.0	51.1	
131 Hexachlorobenzene	284	10.763	10.763	0.000	98	72254	50.0	50.1	
133 Atrazine	200	10.902	10.902	0.000	96	64352	50.0	49.4	
134 Pentachlorophenol	266	10.982	10.982	0.000	97	83486	100.0	97.1	
113 n-Octadecane	57	11.073	11.073	0.000	85	179747	50.0	52.1	
141 Phenanthrene	178	11.185	11.185	0.000	100	330223	50.0	50.3	
142 Anthracene	178	11.233	11.233	0.000	99	341289	50.0	50.5	
143 Carbazole	167	11.404	11.404	0.000	100	297259	50.0	50.3	
145 Di-n-butyl phthalate	149	11.741	11.741	0.000	100	411942	50.0	51.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
152 Fluoranthene	202	12.307	12.307	0.000	98	360203	50.0	50.8	
154 Benzidine	184	12.435	12.435	0.000	100	140698	50.0	36.5	
155 Pyrene	202	12.510	12.510	0.000	99	373657	50.0	50.8	
162 Butyl benzyl phthalate	149	13.071	13.071	0.000	99	198634	50.0	50.5	
166 3,3'-Dichlorobenzidine	252	13.536	13.536	0.000	86	134191	50.0	46.9	
167 Benzo[a]anthracene	228	13.557	13.557	0.000	96	363518	50.0	49.7	
172 Bis(2-ethylhexyl) phthalat	149	13.562	13.562	0.000	94	293558	50.0	51.4	
169 Chrysene	228	13.594	13.594	0.000	98	348415	50.0	51.3	
168 Di-n-octyl phthalate	149	14.097	14.097	0.000	100	483439	50.0	50.0	
174 Benzo[b]fluoranthene	252	14.465	14.465	0.000	99	396919	50.0	54.4	
175 Benzo[k]fluoranthene	252	14.487	14.487	0.000	99	382904	50.0	50.6	
177 Benzo[a]pyrene	252	14.754	14.754	0.000	99	368177	50.0	53.5	
180 Indeno[1,2,3-cd]pyrene	276	15.854	15.854	0.000	90	395584	50.0	50.3	
181 Dibenz(a,h)anthracene	278	15.860	15.860	0.000	86	333041	50.0	50.7	
182 Benzo[g,h,i]perylene	276	16.159	16.159	0.000	98	325166	50.0	50.3	
S 238 3-Methylphenol	1				0		25.0	47.7	

Reagents:

MB_LIST1_WRK_00017	Amount Added: 1.00	Units: mL	
MB_INTSTD_STK_00009	Amount Added: 20.00	Units: uL	Run Reagent

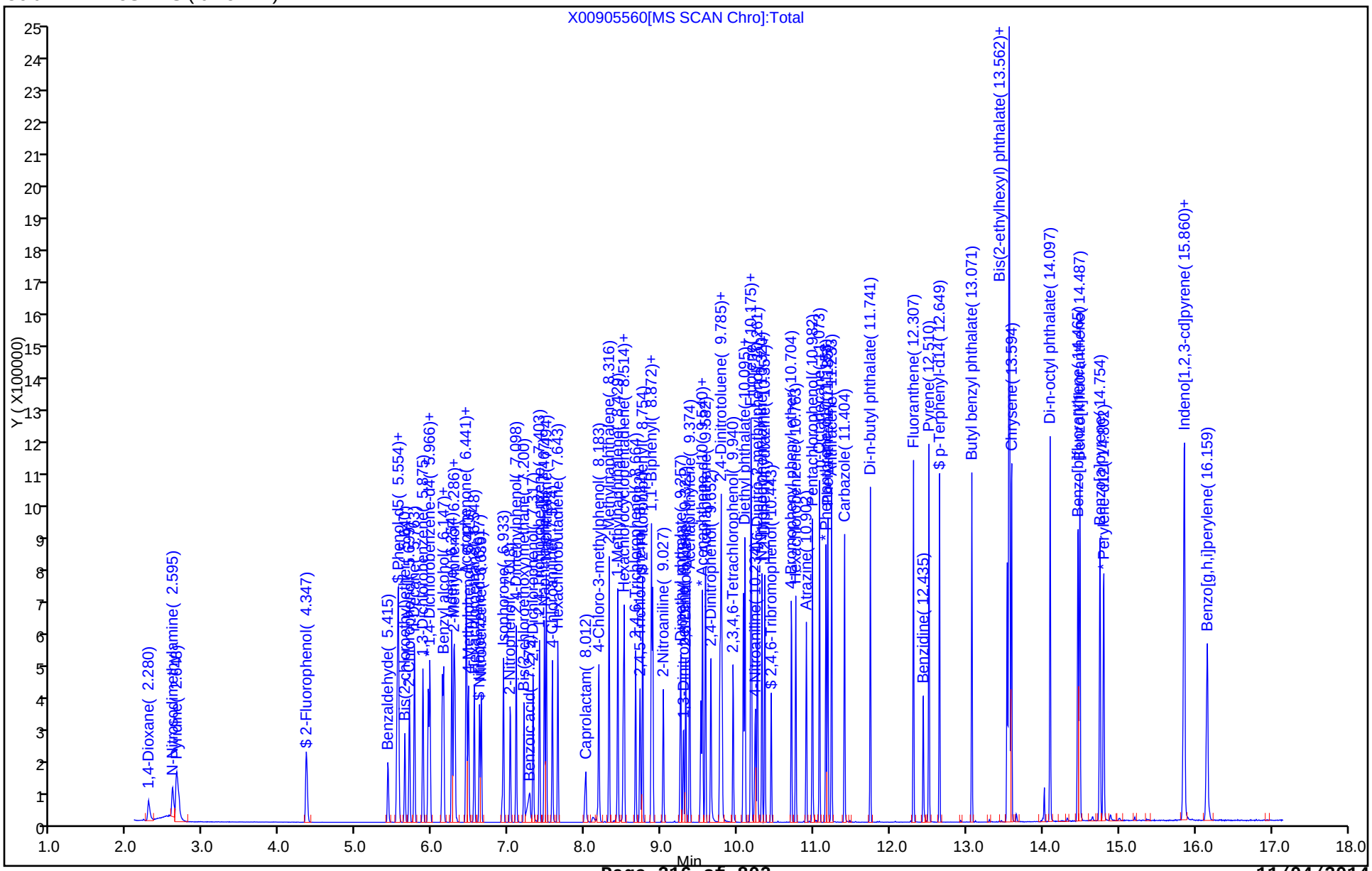
Report Date: 30-Oct-2014 14:20:38 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973X\20141029-36818.b\X00905560.D

Injection Date:	29-Oct-2014 08:36:30	Instrument ID:	HP5973X	Operator ID:	LMW
Lims ID:	CCVIS			Worklist Smp#:	3
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	X-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-70101-1

SDG No.:

Lab Sample ID: CCVIS 480-210927/3 Calibration Date: 10/30/2014 08:51

Instrument ID: HP5973X Calib Start Date: 10/16/2014 08:43

GC Column: RXI-5Sil MS ID: 0.25(mm) Calib End Date: 10/16/2014 10:43

Lab File ID: X00905592.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.4548	0.4204	0.0100	46200	50000	-7.6	50.0
N-Nitrosodimethylamine	Ave	0.7130	0.8472	0.0100	59400	50000	18.8	25.0
Pyridine	Ave	1.122	1.285	0.0100	57300	50000	14.6	50.0
Benzaldehyde	Qua		0.4877	0.0100	27300	50000	-45.5*	40.0
Aniline	Ave	1.869	1.782	0.0100	47700	50000	-4.7	50.0
Phenol	Ave	1.590	1.509	0.8000	47500	50000	-5.1	20.0
Bis(2-chloroethyl)ether	Ave	1.151	1.116	0.7000	48500	50000	-3.0	20.0
2-Chlorophenol	Ave	1.275	1.226	0.8000	48100	50000	-3.8	20.0
n-Decane	Ave	1.615	1.664	0.0100	51500	50000	3.1	40.0
1,3-Dichlorobenzene	Ave	1.420	1.379	0.0100	48500	50000	-2.9	20.0
1,4-Dichlorobenzene	Ave	1.439	1.377	0.0100	47900	50000	-4.3	20.0
Benzyl alcohol	Ave	0.8053	0.7911	0.0100	49100	50000	-1.8	50.0
1,2-Dichlorobenzene	Ave	1.353	1.301	0.0100	48100	50000	-3.8	20.0
Indene	Ave	0.4995	0.5029		50300	50000	0.7	
2-Methylphenol	Ave	1.113	1.075	0.7000	48300	50000	-3.5	20.0
bis (2-chloroisopropyl) ether	Ave	2.006	2.250	0.0100	56100	50000	12.2	20.0
Acetophenone	Ave	1.729	1.602	0.0100	46300	50000	-7.4	40.0
N-Nitrosodi-n-propylamine	Ave	0.8510	0.7981	0.5000	46900	50000	-6.2	20.0
4-Methylphenol	Ave	1.153	1.116	0.6000	48400	50000	-3.2	20.0
Hexachloroethane	Ave	0.5798	0.5509	0.3000	47500	50000	-5.0	20.0
Nitrobenzene	Ave	0.3162	0.3018	0.2000	47700	50000	-4.5	20.0
Isophorone	Ave	0.5760	0.5442	0.4000	47200	50000	-5.5	20.0
2-Nitrophenol	Ave	0.1748	0.1717	0.1000	49100	50000	-1.8	20.0
2,4-Dimethylphenol	Ave	0.3316	0.3126	0.2000	47100	50000	-5.7	20.0
Bis(2-chloroethoxy)methane	Ave	0.3390	0.3203	0.3000	47200	50000	-5.5	20.0
Benzoic acid	Lin1		0.2031	0.0100	50000	50000	0.0	25.0
2,4-Dichlorophenol	Ave	0.2538	0.2491	0.2000	49100	50000	-1.8	20.0
1,2,4-Trichlorobenzene	Ave	0.2981	0.2848	0.0100	47800	50000	-4.5	20.0
Naphthalene	Ave	0.9079	0.8839	0.7000	48700	50000	-2.6	20.0
4-Chloroaniline	Ave	0.3866	0.3752	0.0100	48500	50000	-3.0	20.0
Hexachlorobutadiene	Ave	0.1780	0.1706	0.0100	47900	50000	-4.1	20.0
Caprolactam	Lin1		0.0780	0.0100	80600	50000	61.1*	40.0
4-Chloro-3-methylphenol	Ave	0.2837	0.2720	0.2000	47900	50000	-4.1	20.0
2-Methylnaphthalene	Ave	0.6148	0.5971	0.4000	48600	50000	-2.9	20.0
1-Methylnaphthalene	Ave	0.5746	0.5615	0.0100	48900	50000	-2.3	40.0
Hexachlorocyclopentadiene	Lin1		0.2445	0.0500	42400	50000	-15.3	20.0
1,2,4,5-Tetrachlorobenzene	Ave	0.4835	0.4896	0.0100	50600	50000	1.3	40.0
2,4,6-Trichlorophenol	Ave	0.3273	0.3283	0.2000	50200	50000	0.3	20.0
2,4,5-Trichlorophenol	Ave	0.3369	0.3519	0.2000	52200	50000	4.4	20.0
Biphenyl	Ave	1.280	1.300	0.0100	50800	50000	1.6	40.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-70101-1

SDG No.:

Lab Sample ID: CCVIS 480-210927/3 Calibration Date: 10/30/2014 08:51

Instrument ID: HP5973X Calib Start Date: 10/16/2014 08:43

GC Column: RXI-5Sil MS ID: 0.25(mm) Calib End Date: 10/16/2014 10:43

Lab File ID: X00905592.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2-Chloronaphthalene	Ave	0.9889	0.9792	0.8000	49500	50000	-1.0	25.0
2-Nitroaniline	Ave	0.3344	0.3550	0.0100	53100	50000	6.1	20.0
Dimethyl phthalate	Ave	1.201	1.202	0.0100	50000	50000	0.0	20.0
1,3-Dinitrobenzene	Ave	0.1128	0.1135	0.0100	50300	50000	0.6	50.0
2,6-Dinitrotoluene	Ave	0.2753	0.2881	0.2000	52300	50000	4.7	25.0
Acenaphthylene	Ave	1.579	1.595	0.9000	50500	50000	1.0	20.0
3-Nitroaniline	Ave	0.3096	0.3149	0.0100	50800	50000	1.7	20.0
Acenaphthene	Ave	1.018	1.015	0.0100	49800	50000	-0.4	20.0
2,4-Dinitrophenol	Lin1		0.1716	0.0100	93400	100000	-6.6	20.0
4-Nitrophenol	Lin1		0.2169	0.0100	95600	100000	-4.4	20.0
Dibenzofuran	Ave	1.424	1.424	0.8000	50000	50000	0.0	20.0
2,4-Dinitrotoluene	Ave	0.3828	0.3844	0.0100	50200	50000	0.4	20.0
2,3,4,6-Tetrachlorophenol	Ave	0.2623	0.2662	0.0100	50700	50000	1.4	40.0
Diethyl phthalate	Ave	1.282	1.254	0.0100	48900	50000	-2.2	20.0
Hexadecane	Ave	0.8729	0.9489	0.0100	54400	50000	8.7	40.0
Fluorene	Ave	1.121	1.103	0.9000	49200	50000	-1.6	20.0
4-Chlorophenyl phenyl ether	Ave	0.5720	0.5530	0.4000	48300	50000	-3.3	20.0
4-Nitroaniline	Ave	0.2989	0.2996	0.0100	50100	50000	0.2	20.0
4,6-Dinitro-2-methylphenol	Ave	0.1309	0.1302	0.0100	99500	100000	-0.5	20.0
N-Nitrosodiphenylamine	Ave	0.4560	0.4548	0.0100	49900	50000	-0.3	20.0
1,2-Diphenylhydrazine	Ave	1.210	1.234	0.0100	51000	50000	1.9	25.0
trans-Azobenzene	Ave	0.6676	0.6853	0.0100	51300	50000	2.6	40.0
4-Bromophenyl phenyl ether	Ave	0.1820	0.1772	0.1000	48700	50000	-2.6	20.0
Hexachlorobenzene	Ave	0.2114	0.2071	0.1000	49000	50000	-2.0	20.0
Atrazine	Ave	0.3482	0.3375	0.0100	48500	50000	-3.1	25.0
Pentachlorophenol	Lin1		0.1173	0.0500	93400	100000	-6.6	20.0
n-Octadecane	Ave	0.5051	0.5468	0.0100	54100	50000	8.3	40.0
Phenanthrene	Ave	0.9605	0.9658	0.7000	50300	50000	0.6	20.0
Anthracene	Ave	0.9904	0.997	0.7000	50400	50000	0.7	20.0
Carbazole	Ave	0.8653	0.8653	0.0100	50000	50000	0.0	20.0
Di-n-butyl phthalate	Ave	1.180	1.210	0.0100	51300	50000	2.5	20.0
Fluoranthene	Ave	1.038	1.064	0.6000	51200	50000	2.4	20.0
Benzidine	Ave	0.5105	0.3698	0.0100	36200	50000	-27.6*	25.0
Pyrene	Ave	0.9741	1.010	0.6000	51900	50000	3.7	20.0
Butyl benzyl phthalate	Ave	0.5210	0.5285	0.0100	50700	50000	1.4	20.0
3,3'-Dichlorobenzidine	Ave	0.3790	0.3525	0.0100	46500	50000	-7.0	20.0
Benzo(a)anthracene	Ave	0.9687	0.9677	0.8000	50000	50000	-0.1	20.0
Bis(2-ethylhexyl) phthalate	Ave	0.7569	0.7920	0.0100	52300	50000	4.6	20.0
Chrysene	Ave	0.8986	0.8998	0.7000	50100	50000	0.1	20.0
Di-n-octyl phthalate	Ave	1.281	1.325	0.0100	51700	50000	3.5	20.0
Benzo(b)fluoranthene	Ave	1.000	1.072	0.7000	53600	50000	7.2	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-70101-1

SDG No.:

Lab Sample ID: CCVIS 480-210927/3 Calibration Date: 10/30/2014 08:51

Instrument ID: HP5973X Calib Start Date: 10/16/2014 08:43

GC Column: RXI-5Sil MS ID: 0.25(mm) Calib End Date: 10/16/2014 10:43

Lab File ID: X00905592.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Benzo(k)fluoranthene	Ave	1.038	1.106	0.7000	53300	50000	6.6	20.0
Benzo(a)pyrene	Ave	0.9421	1.013	0.7000	53800	50000	7.5	20.0
Indeno(1,2,3-cd)pyrene	Ave	1.078	1.066	0.5000	49500	50000	-1.1	20.0
Dibenz(a,h)anthracene	Ave	0.9002	0.8905	0.4000	49500	50000	-1.1	20.0
Benzo(g,h,i)perylene	Ave	0.8852	0.8720	0.5000	49300	50000	-1.5	20.0
2-Fluorophenol	Ave	1.168	1.150	0.0100	49200	50000	-1.6	25.0
Phenol-d5	Ave	1.434	1.398	0.0100	48700	50000	-2.5	25.0
Nitrobenzene-d5	Ave	0.3243	0.3177	0.0100	49000	50000	-2.0	25.0
2-Fluorobiphenyl	Ave	1.121	1.147	0.0100	51200	50000	2.4	25.0
2,4,6-Tribromophenol	Ave	0.1022	0.1036	0.0100	50700	50000	1.5	25.0
p-Terphenyl-d14	Ave	0.6748	0.6823	0.0100	50600	50000	1.1	25.0

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973X\20141030-36863.b\X00905592.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 30-Oct-2014 08:51:30 ALS Bottle#: 1 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 480-0036863-003
Operator ID: LMW Instrument ID: HP5973X
Sublist: chrom-X-8270*sub73

Method: \\Bufchrom\ChromData\HP5973X\20141030-36863.b\X-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 30-Oct-2014 15:20:41 Calib Date: 16-Oct-2014 10:43:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5973X\20141016-36383.b\X00906835.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK011

First Level Reviewer: michalej Date: 30-Oct-2014 09:14:43

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.918	5.918	0.000	96	62513	40.0	40.0	
* 2 Naphthalene-d8	136	7.440	7.440	0.000	98	245114	40.0	40.0	
* 3 Acenaphthene-d10	164	9.524	9.524	0.000	99	135206	40.0	40.0	
* 4 Phenanthrene-d10	188	11.142	11.142	0.000	99	243370	40.0	40.0	
* 5 Chrysene-d12	240	13.557	13.557	0.000	98	265129	40.0	40.0	
* 6 Perylene-d12	264	14.780	14.780	0.000	98	249312	40.0	40.0	
$ 7 2-Fluorophenol	112	4.320	4.320	0.000	98	89852	50.0	49.2	
$ 8 Phenol-d5	99	5.506	5.506	0.000	95	109259	50.0	48.7	
$ 9 Nitrobenzene-d5	82	6.585	6.585	0.000	95	97342	50.0	49.0	
$ 10 2-Fluorobiphenyl	172	8.738	8.738	0.000	100	193928	50.0	51.2	
$ 11 2,4,6-Tribromophenol	330	10.426	10.426	0.000	96	31528	50.0	50.7	
$ 12 p-Terphenyl-d14	244	12.633	12.633	0.000	98	226131	50.0	50.6	
15 1,4-Dioxane	88	2.253	2.253	0.000	87	32850	50.0	46.2	
16 N-Nitrosodimethylamine	42	2.557	2.557	0.000	98	66198	50.0	59.4	
17 Pyridine	52	2.616	2.616	0.000	90	100439	50.0	57.3	
27 Benzaldehyde	77	5.383	5.383	0.000	93	38111	50.0	27.3	
29 Aniline	93	5.522	5.522	0.000	75	139213	50.0	47.7	
28 Phenol	94	5.522	5.522	0.000	78	117920	50.0	47.5	
31 Bis(2-chloroethyl)ether	93	5.608	5.608	0.000	99	87187	50.0	48.5	
32 2-Chlorophenol	128	5.667	5.667	0.000	97	95783	50.0	48.1	
35 n-Decane	57	5.736	5.736	0.000	92	130038	50.0	51.5	
36 1,3-Dichlorobenzene	146	5.843	5.843	0.000	97	107729	50.0	48.5	
37 1,4-Dichlorobenzene	146	5.939	5.939	0.000	97	107637	50.0	47.9	
38 Benzyl alcohol	108	6.099	6.099	0.000	94	61819	50.0	49.1	
39 1,2-Dichlorobenzene	146	6.115	6.115	0.000	97	101670	50.0	48.1	
229 Indene	115	6.222	6.222	0.000	0	152978	50.0	50.3	
40 2-Methylphenol	108	6.249	6.249	0.000	97	83977	50.0	48.3	
42 2,2'-oxybis[1-chloropropan	45	6.265	6.265	0.000	90	175846	50.0	56.1	
45 Acetophenone	105	6.409	6.409	0.000	95	125166	50.0	46.3	
47 N-Nitrosodi-n-propylamine	70	6.420	6.420	0.000	92	62365	50.0	46.9	
46 4-Methylphenol	108	6.441	6.441	0.000	95	87224	50.0	48.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
50 Hexachloroethane	117	6.521	6.521	0.000	95	43045	50.0	47.5	
52 Nitrobenzene	77	6.612	6.612	0.000	95	92478	50.0	47.7	
56 Isophorone	82	6.901	6.901	0.000	98	166746	50.0	47.2	
58 2-Nitrophenol	139	6.991	6.991	0.000	93	52611	50.0	49.1	
59 2,4-Dimethylphenol	107	7.072	7.072	0.000	96	95762	50.0	47.1	
62 Bis(2-chloroethoxy)methane	93	7.173	7.173	0.000	98	98123	50.0	47.2	
64 Benzoic acid	105	7.237	7.237	0.000	83	62226	50.0	50.0	
65 2,4-Dichlorophenol	162	7.291	7.291	0.000	99	76334	50.0	49.1	
67 1,2,4-Trichlorobenzene	180	7.376	7.376	0.000	99	87252	50.0	47.8	
69 Naphthalene	128	7.467	7.467	0.000	99	270820	50.0	48.7	
71 4-Chloroaniline	127	7.547	7.547	0.000	99	114953	50.0	48.5	
73 Hexachlorobutadiene	225	7.622	7.622	0.000	98	52271	50.0	47.9	
78 Caprolactam	113	7.980	7.980	0.000	93	23910	50.0	80.6	
79 4-Chloro-3-methylphenol	107	8.156	8.156	0.000	97	83337	50.0	47.9	
82 2-Methylnaphthalene	142	8.295	8.295	0.000	98	182937	50.0	48.6	
83 1-Methylnaphthalene	142	8.407	8.407	0.000	99	172030	50.0	48.9	
84 Hexachlorocyclopentadiene	237	8.482	8.482	0.000	96	41328	50.0	42.4	
85 1,2,4,5-Tetrachlorobenzene	216	8.493	8.493	0.000	99	82748	50.0	50.6	
86 2,4,6-Trichlorophenol	196	8.642	8.642	0.000	98	55492	50.0	50.2	
87 2,4,5-Trichlorophenol	196	8.701	8.701	0.000	98	59469	50.0	52.2	
90 1,1'-Biphenyl	154	8.851	8.851	0.000	99	219733	50.0	50.8	
91 2-Chloronaphthalene	162	8.872	8.872	0.000	99	165492	50.0	49.5	
93 2-Nitroaniline	65	9.005	9.005	0.000	98	59990	50.0	53.1	
96 Dimethyl phthalate	163	9.235	9.235	0.000	99	203168	50.0	50.0	
97 1,3-Dinitrobenzene	168	9.273	9.273	0.000	94	34785	50.0	50.3	
99 2,6-Dinitrotoluene	165	9.305	9.305	0.000	84	48693	50.0	52.3	
100 Acenaphthylene	152	9.358	9.358	0.000	99	269565	50.0	50.5	
101 3-Nitroaniline	138	9.502	9.502	0.000	96	53218	50.0	50.8	
102 Acenaphthene	153	9.561	9.561	0.000	99	171474	50.0	49.8	
103 2,4-Dinitrophenol	184	9.636	9.636	0.000	97	58010	100.0	93.4	
107 Dibenzofuran	168	9.769	9.769	0.000	99	240636	50.0	50.0	
106 2,4-Dinitrotoluene	165	9.780	9.780	0.000	91	64973	50.0	50.2	
104 4-Nitrophenol	109	9.753	9.753	0.000	89	73302	100.0	95.6	
110 2,3,4,6-Tetrachlorophenol	232	9.924	9.924	0.000	97	44981	50.0	50.7	
112 Diethyl phthalate	149	10.063	10.063	0.000	100	211889	50.0	48.9	
138 Hexadecane	57	10.085	10.085	0.000	88	160377	50.0	54.4	
115 Fluorene	166	10.159	10.159	0.000	99	186355	50.0	49.2	
116 4-Chlorophenyl phenyl ethe	204	10.170	10.170	0.000	95	93453	50.0	48.3	
118 4-Nitroaniline	138	10.213	10.213	0.000	90	50629	50.0	50.1	
119 4,6-Dinitro-2-methylphenol	198	10.245	10.245	0.000	89	79230	100.0	99.5	
120 N-Nitrosodiphenylamine	169	10.304	10.304	0.000	98	138365	50.0	49.9	
122 Azobenzene	77	10.341	10.341	0.000	94	208473	50.0	51.3	
123 1,2-Diphenylhydrazine	77	10.341	10.341	0.000	96	208473	50.0	51.0	
130 4-Bromophenyl phenyl ether	248	10.694	10.694	0.000	92	53917	50.0	48.7	
131 Hexachlorobenzene	284	10.752	10.752	0.000	97	62986	50.0	49.0	
133 Atrazine	200	10.886	10.886	0.000	95	57042	50.0	48.5	
134 Pentachlorophenol	266	10.966	10.966	0.000	97	71355	100.0	93.4	
113 n-Octadecane	57	11.062	11.062	0.000	86	166343	50.0	54.1	
141 Phenanthrene	178	11.169	11.169	0.000	100	293807	50.0	50.3	
142 Anthracene	178	11.217	11.217	0.000	99	303423	50.0	50.4	
143 Carbazole	167	11.388	11.388	0.000	100	263224	50.0	50.0	
145 Di-n-butyl phthalate	149	11.730	11.730	0.000	100	368199	50.0	51.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
152 Fluoranthene	202	12.291	12.291	0.000	98	323583	50.0	51.2	
154 Benzidine	184	12.419	12.419	0.000	100	122544	50.0	36.2	
155 Pyrene	202	12.494	12.494	0.000	98	334811	50.0	51.9	
162 Butyl benzyl phthalate	149	13.060	13.060	0.000	99	175153	50.0	50.7	
166 3,3'-Dichlorobenzidine	252	13.520	13.520	0.000	86	116815	50.0	46.5	
167 Benzo[a]anthracene	228	13.541	13.541	0.000	95	320715	50.0	50.0	
172 Bis(2-ethylhexyl) phthalat	149	13.546	13.546	0.000	93	262490	50.0	52.3	
169 Chrysene	228	13.578	13.578	0.000	98	298200	50.0	50.1	
168 Di-n-octyl phthalate	149	14.081	14.081	0.000	99	439211	50.0	51.7	
174 Benzo[b]fluoranthene	252	14.444	14.444	0.000	98	333992	50.0	53.6	
175 Benzo[k]fluoranthene	252	14.465	14.465	0.000	98	344570	50.0	53.3	
177 Benzo[a]pyrene	252	14.732	14.732	0.000	99	315661	50.0	53.8	
180 Indeno[1,2,3-cd]pyrene	276	15.822	15.822	0.000	90	332355	50.0	49.5	
181 Dibenz(a,h)anthracene	278	15.827	15.827	0.000	86	277515	50.0	49.5	
182 Benzo[g,h,i]perylene	276	16.121	16.121	0.000	97	271756	50.0	49.3	
S 238 3-Methylphenol	1				0		25.0	48.4	

Reagents:

MB_LIST1_WRK_00017	Amount Added: 1.00	Units: mL	
MB_INTSTD_STK_00009	Amount Added: 20.00	Units: uL	Run Reagent

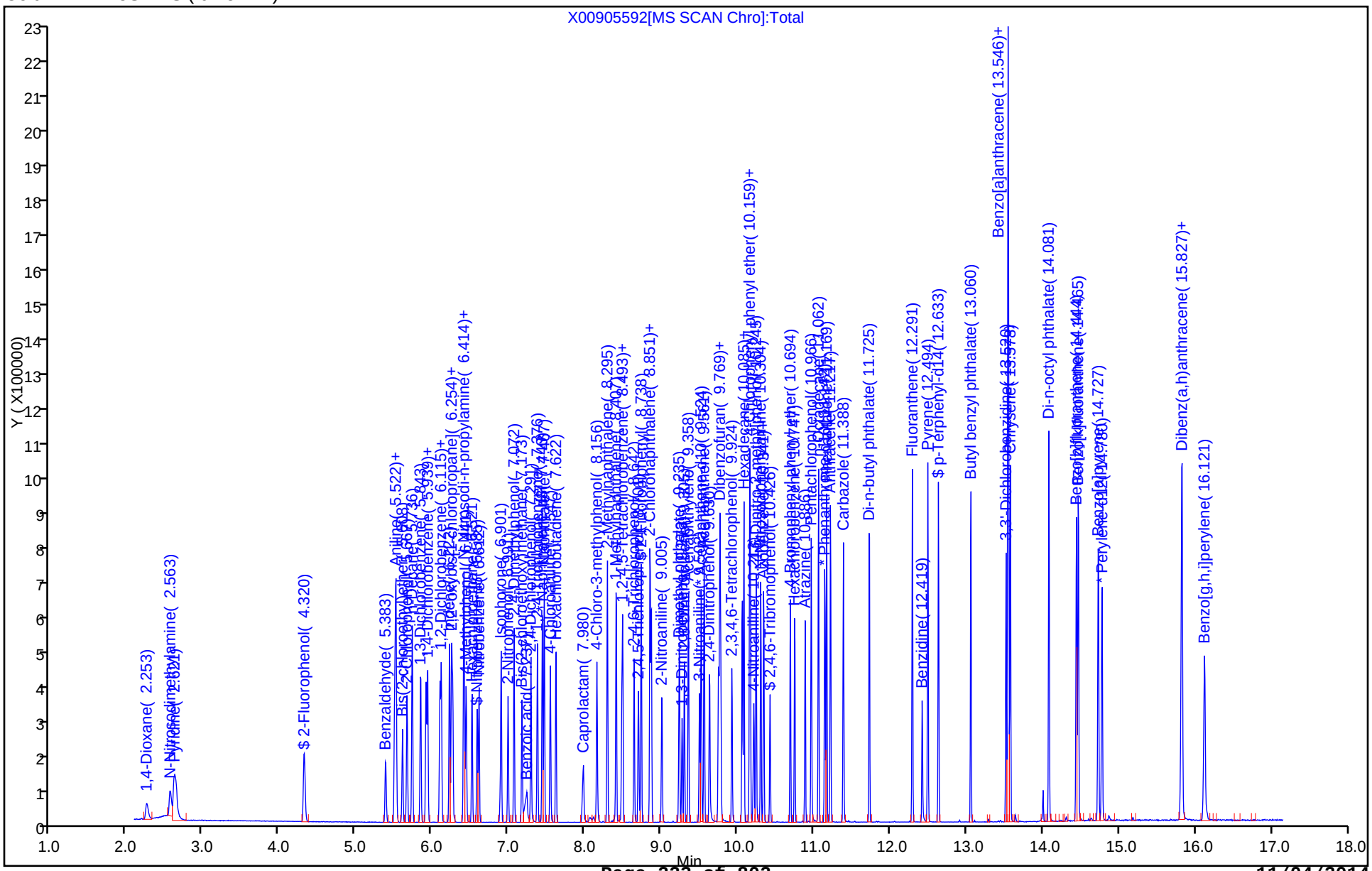
Report Date: 30-Oct-2014 15:20:42 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973X\20141030-36863.b\X00905592.D

Injection Date:	30-Oct-2014 08:51:30	Instrument ID:	HP5973X	Operator ID:	LMW
Lims ID:	CCVIS			Worklist Smp#:	3
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	X-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973X\20141016-36383.b\X00906829.D
Lims ID: DFTPP
Client ID:
Sample Type: DFTPP
Inject. Date: 16-Oct-2014 08:00:30 ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 480-0036383-002
Operator ID: LMW Instrument ID: HP5973X

Method: \\Bufchrom\ChromData\HP5973X\20141016-36383.b\X-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 16-Oct-2014 15:17:19 Calib Date: 16-Oct-2014 10:43:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5973X\20141016-36383.b\X00906835.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK035

First Level Reviewer: WolfL Date: 16-Oct-2014 08:26:04

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152		5.944					0	
* 2 Naphthalene-d8	136		7.467					0	
* 3 Acenaphthene-d10	164		9.540					0	
* 4 Phenanthrene-d10	188		11.158					0	
* 5 Chrysene-d12	240		13.573					0	
* 6 Perylene-d12	264		14.802					0	
230 Pentachlorophenol_T	266	10.971	10.971	0.000	98	40288	NR	NR	
231 DFTPP									
232 Benzidine_T	184	12.430	12.430	0.000	100	314406	NR	NR	
234 4,4'-DDD	235		12.943					ND	
233 4,4'-DDE	246		13.015					ND	
235 4,4'-DDT	235	13.151	13.151	0.000	99	163158	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard
ND - Not Detected or Marked ND

Reagents:

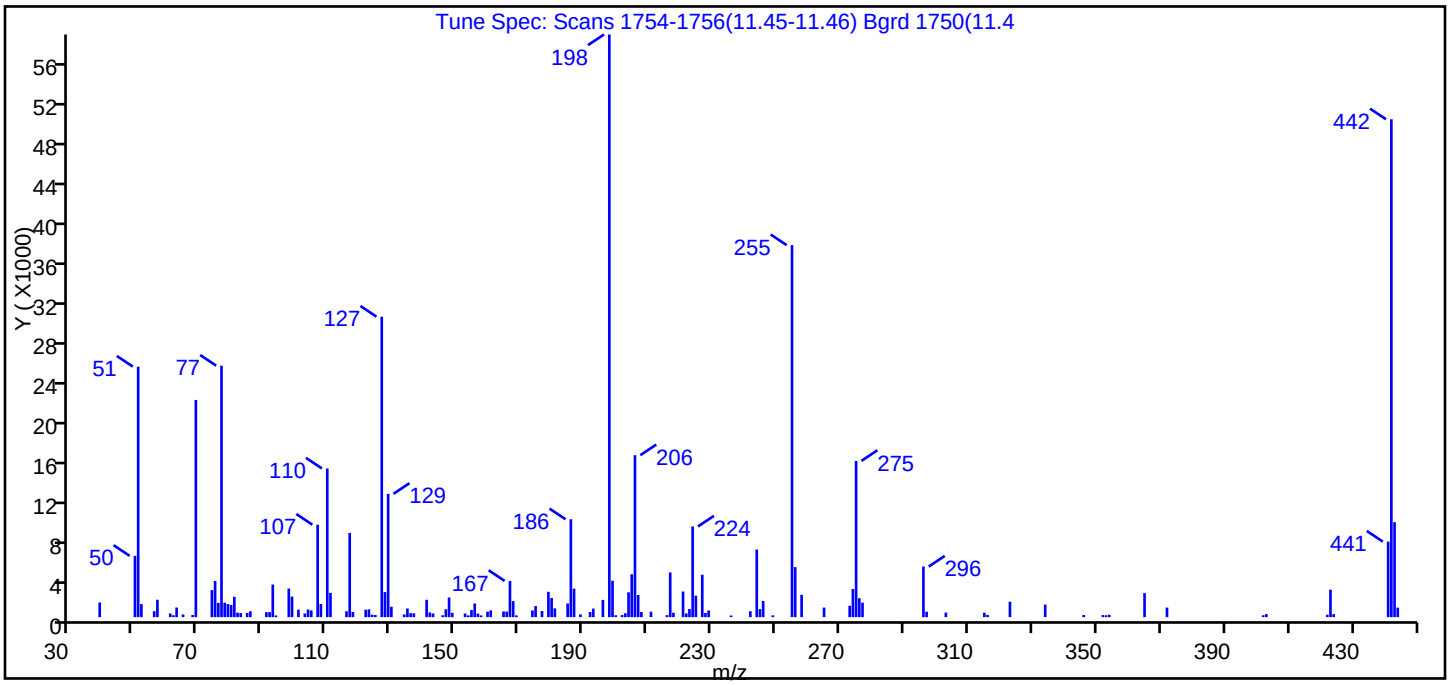
MB_DFTPP_WRK_00206 Amount Added: 1.00 Units: mL
MB_INTSTD_STK_00009 Amount Added: 20.00 Units: uL Run Reagent

MS Tune Report

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973X\20141016-36383.b\X00906829.D
Injection Date: 16-Oct-2014 08:00:30 Instrument ID: HP5973X
Lims ID: DFTPP
Client ID:
Operator ID: LMW ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: X-8270 Limit Group: MB - 8270D ICAL
Tune Method: DFTPP Method 8270D, BP 198

231 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	43.00
68	Less than 2.00% of mass 69	0.40 (1.00)
69	Present	37.30
70	Less than 2.00% of mass 69	0.00 (0.00)
127	10.00 - 80.00% of mass 198	51.60
197	Less than 2.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.20
275	10.00 - 60.00% of mass 198	26.80
365	Greater than 1.00% of mass 198	4.10
441	Present, but Less than 24.00% of mass 442	13.00 (15.20)
442	Greater than 50.00% of mass 198	85.40
443	15.00 - 24.00% of mass 442	16.30 (19.10)

Data File: \\Bufchrom\ChromData\HP5973X\20141016-36383.b\X00906829.D\X-8270.rslt\spectra.d
Injection Date: 16-Oct-2014 08:00:30
Spectrum: Tune Spec: Scans 1754-1756(11.45-11.46) Bgrd 1750(11.4
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 145

m/z	Y	m/z	Y	m/z	Y	m/z	Y
39.00	1471	111.00	2443	175.00	1115	245.00	808
50.00	6161	116.00	590	177.00	625	246.00	1625
51.00	25192	117.00	8468	179.00	2550	249.00	182
52.00	1310	118.00	511	180.00	1930	255.00	37408
56.00	601	122.00	750	181.00	883	256.00	5035
57.00	1745	123.00	786	185.00	1374	258.00	2241
61.00	370	124.00	246	186.00	9843	265.00	963
62.00	190	125.00	216	187.00	2862	273.00	1144
63.00	968	127.00	30216	189.00	280	274.00	2830
65.00	271	128.00	2519	192.00	517	275.00	15710
68.00	214	129.00	12401	193.00	860	276.00	1903
69.00	21840	130.00	1048	196.00	1732	277.00	1454
74.00	2717	134.00	276	198.00	58592	296.00	5085
75.00	3641	135.00	868	199.00	3659	297.00	546
76.00	1435	136.00	396	200.00	193	303.00	460
77.00	25288	137.00	388	202.00	209	315.00	445
78.00	1462	141.00	1742	203.00	391	316.00	224
79.00	1315	142.00	473	204.00	2499	323.00	1551
80.00	1232	143.00	368	205.00	4311	334.00	1263
81.00	2042	146.00	190	206.00	16283	346.00	218
82.00	453	147.00	794	207.00	2228	352.00	214
83.00	406	148.00	1977	208.00	521	353.00	187
85.00	428	149.00	432	211.00	551	354.00	240
86.00	594	153.00	367	216.00	205	365.00	2417
91.00	497	154.00	171	217.00	4498	372.00	963
92.00	509	155.00	710	218.00	448	402.00	191
93.00	3280	156.00	1372	221.00	2575	403.00	306
94.00	172	157.00	362	222.00	372	422.00	239
98.00	2878	158.00	174	223.00	816	423.00	2764
99.00	2067	160.00	548	224.00	9117	424.00	304
101.00	750	161.00	677	225.00	2164	441.00	7592
103.00	366	165.00	576	227.00	4269	442.00	50064
104.00	768	166.00	556	228.00	424	443.00	9553

Report Date: 16-Oct-2014 15:17:20 Chrom Revision: 2.2 18-Aug-2014 12:17:36
Data File: \\Bufchrom\ChromData\HP5973X\20141016-36383.b\X00906829.D\X-8270.rslt\spectra.d
Injection Date: 16-Oct-2014 08:00:30
Spectrum: Tune Spec: Scans 1754-1756(11.45-11.46) Bgrd 1750(11.4
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 145

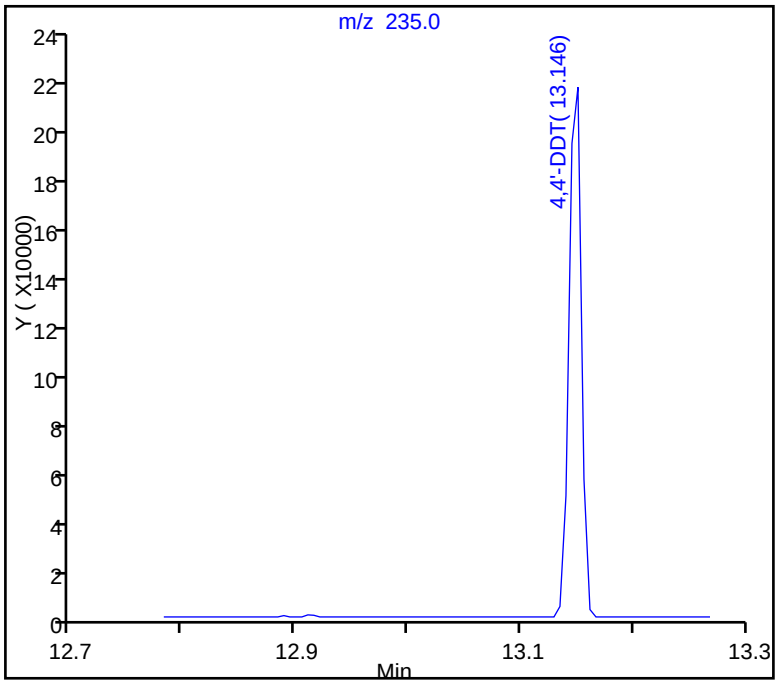
m/z	Y	m/z	Y	m/z	Y	m/z	Y
105.00	679	167.00	3642	229.00	671	444.00	956
107.00	9297	168.00	1613	236.00	166		
108.00	1317	169.00	176	242.00	592		
110.00	14948	174.00	668	244.00	6794		

Breakdown Report

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973X\20141016-36383.b\X00906829.D
Injection Date: 16-Oct-2014 08:00:30 Instrument ID: HP5973X
Lims ID: DFTPP
Client ID:
Operator ID: LMW ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: X-8270 Limit Group: MB - 8270D ICAL

235 4,4'-DDT, Detector: MS SCAN



SW-846 Method

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

235 4,4'-DDT, Area = 163158
234 4,4'-DDD, Area = 0
233 4,4'-DDE, Area = 0

%Breakdown: 0.00%, Max Limit: 20.00%
Passed

Peak Tailing Report

TestAmerica Buffalo

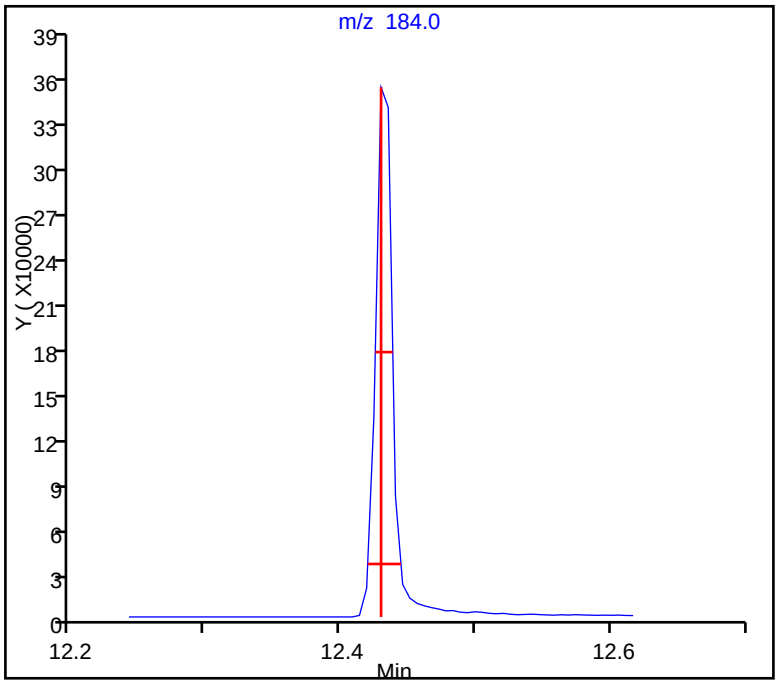
Data File: \\Bufchrom\ChromData\HP5973X\20141016-36383.b\X00906829.D
Injection Date: 16-Oct-2014 08:00:30 Instrument ID: HP5973X
Lims ID: DFTPP
Client ID:
Operator ID: LMW ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: X-8270 Limit Group: MB - 8270D ICAL

232 Benzidine_T, Detector: MS SCAN

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

Back Width = 0.015 (min.)
Front Width = 0.010 (min.)

Tailing Factor = 1.5, Max. Tailing < 2.00
Passed



Peak Tailing Report

TestAmerica Buffalo

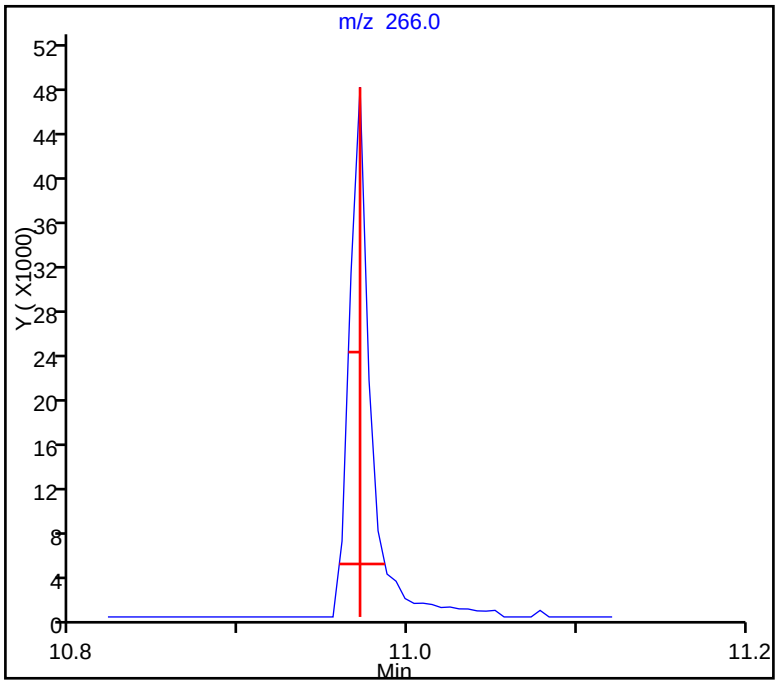
Data File: \\Bufchrom\ChromData\HP5973X\20141016-36383.b\X00906829.D
Injection Date: 16-Oct-2014 08:00:30 Instrument ID: HP5973X
Lims ID: DFTPP
Client ID:
Operator ID: LMW ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: X-8270 Limit Group: MB - 8270D ICAL

230 Pentachlorophenol_T, Detector: MS SCAN

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

Back Width = 0.015 (min.)
Front Width = 0.012 (min.)

Tailing Factor = 1.2, Max. Tailing < 2.00
Passed



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973X\20141029-36818.b\X00905559.D
Lims ID: DFTPP
Client ID:
Sample Type: DFTPP
Inject. Date: 29-Oct-2014 08:04:30 ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 480-0036818-002
Operator ID: LMW Instrument ID: HP5973X

Method: \\Bufchrom\ChromData\HP5973X\20141029-36818.b\X-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 30-Oct-2014 14:20:35 Calib Date: 16-Oct-2014 10:43:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5973X\20141016-36383.b\X00906835.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK011

First Level Reviewer: WolfL Date: 29-Oct-2014 08:34:01

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152		5.944					0	
* 2 Naphthalene-d8	136		7.462					0	
* 3 Acenaphthene-d10	164		9.540					0	
* 4 Phenanthrene-d10	188		11.158					0	
* 5 Chrysene-d12	240		13.568					0	
* 6 Perylene-d12	264		14.802					0	
230 Pentachlorophenol_T	266	10.982	10.982	0.000	97	63760	NR	NR	
231 DFTPP									
232 Benzidine_T	184	12.441	12.441	0.000	99	453446	NR	NR	
234 4,4'-DDD	235	12.916	12.916	0.000	74	1065		NR	
233 4,4'-DDE	246		13.015					ND	
235 4,4'-DDT	235	13.151	13.151	0.000	98	232932	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard
ND - Not Detected or Marked ND

Reagents:

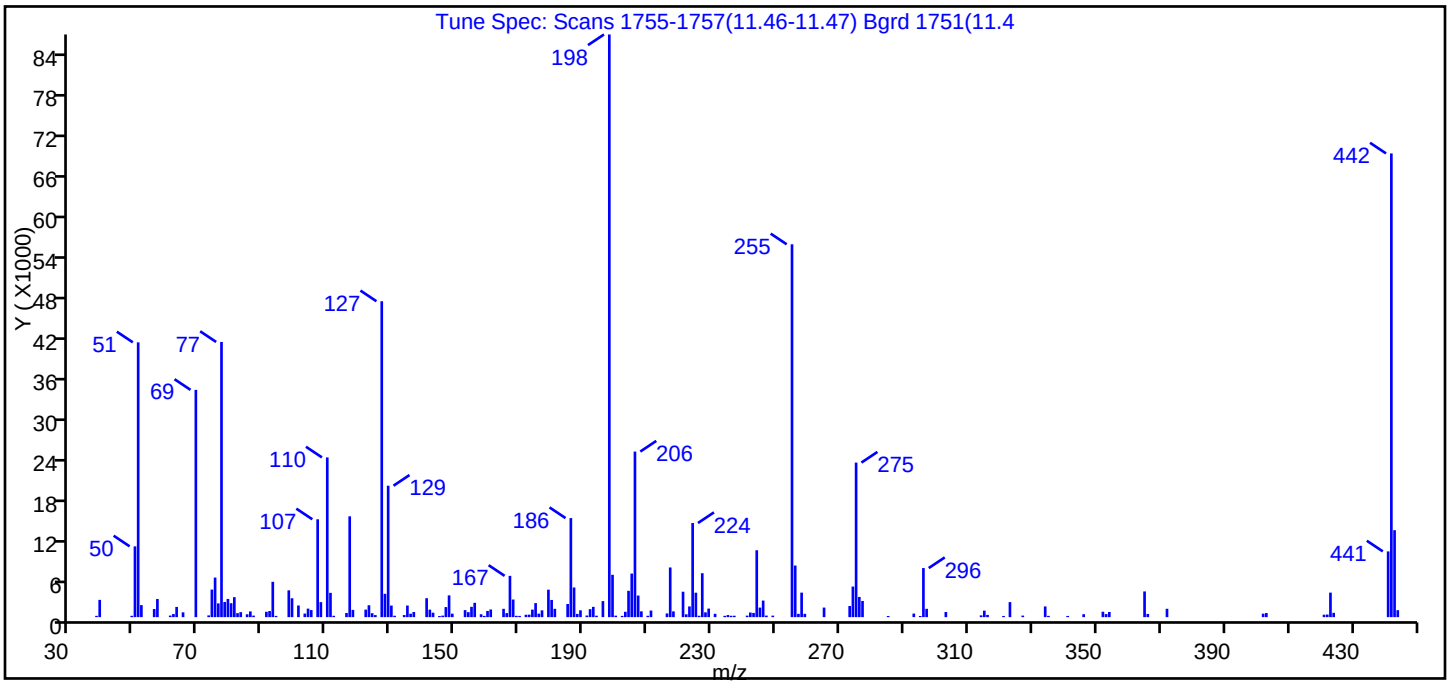
MB_DFTPP_WRK_00208	Amount Added: 1.00	Units: mL	
MB_INTSTD_STK_00009	Amount Added: 20.00	Units: uL	Run Reagent

MS Tune Report

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973X\20141029-36818.b\X00905559.D
Injection Date: 29-Oct-2014 08:04:30 Instrument ID: HP5973X
Lims ID: DFTPP
Client ID:
Operator ID: LMW ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: X-8270 Limit Group: MB - 8270D ICAL
Tune Method: DFTPP Method 8270D, BP 198

231 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	47.20
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Present	39.00
70	Less than 2.00% of mass 69	0.00 (0.00)
127	10.00 - 80.00% of mass 198	54.20
197	Less than 2.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	7.30
275	10.00 - 60.00% of mass 198	26.50
365	Greater than 1.00% of mass 198	4.40
441	Present, but Less than 24.00% of mass 442	11.30 (14.20)
442	Greater than 50.00% of mass 198	79.60
443	15.00 - 24.00% of mass 442	14.90 (18.80)

Data File: \\Bufchrom\ChromData\HP5973X\20141029-36818.b\X00905559.D\X-8270.rslt\spectra.d
Injection Date: 29-Oct-2014 08:04:30
Spectrum: Tune Spec: Scans 1755-1757(11.46-11.47) Bgrd 1751(11.4
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 179

m/z	Y	m/z	Y	m/z	Y	m/z	Y
38.00	192	122.00	1116	186.00	14671	249.00	224
39.00	2559	123.00	1760	187.00	4393	255.00	55216
49.00	198	124.00	582	188.00	478	256.00	7642
50.00	10483	125.00	303	189.00	1011	257.00	487
51.00	40696	127.00	46784	191.00	239	258.00	3631
52.00	1784	128.00	3458	192.00	1181	259.00	490
56.00	1200	129.00	19464	193.00	1523	265.00	1416
57.00	2690	130.00	1715	194.00	215	273.00	1647
61.00	231	131.00	205	196.00	2376	274.00	4530
62.00	462	134.00	308	198.00	86288	275.00	22888
63.00	1513	135.00	1719	199.00	6269	276.00	2991
65.00	713	136.00	511	200.00	220	277.00	2396
69.00	33656	137.00	758	202.00	185	285.00	173
73.00	257	141.00	2807	203.00	794	293.00	529
74.00	4083	142.00	1106	204.00	3898	295.00	166
75.00	5862	143.00	661	205.00	6452	296.00	7268
76.00	2035	145.00	167	206.00	24520	297.00	1233
77.00	40752	146.00	227	207.00	3197	303.00	765
78.00	2238	147.00	1491	208.00	859	314.00	261
79.00	2697	148.00	3226	210.00	201	315.00	965
80.00	2062	149.00	515	211.00	978	316.00	334
81.00	2960	153.00	1042	216.00	547	321.00	174
82.00	589	154.00	738	217.00	7356	323.00	2226
83.00	740	155.00	1526	218.00	854	327.00	228
85.00	423	156.00	2122	221.00	3764	334.00	1585
86.00	847	158.00	427	222.00	420	335.00	187
87.00	225	159.00	184	223.00	1584	341.00	177
91.00	790	160.00	916	224.00	13939	346.00	436
92.00	903	161.00	1137	225.00	3621	352.00	802
93.00	5233	165.00	1233	226.00	206	353.00	454
94.00	186	166.00	597	227.00	6507	354.00	758
98.00	3970	167.00	6115	228.00	714	365.00	3807
99.00	2798	168.00	2608	229.00	1266	366.00	474

Report Date: 30-Oct-2014 14:20:36 Chrom Revision: 2.2 07-Oct-2014 12:16:06
Data File: \\Bufchrom\ChromData\HP5973X\20141029-36818.b\X00905559.D\X-8270.rslt\spectra.d
Injection Date: 29-Oct-2014 08:04:30
Spectrum: Tune Spec: Scans 1755-1757(11.46-11.47) Bgrd 1751(11.4
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 179

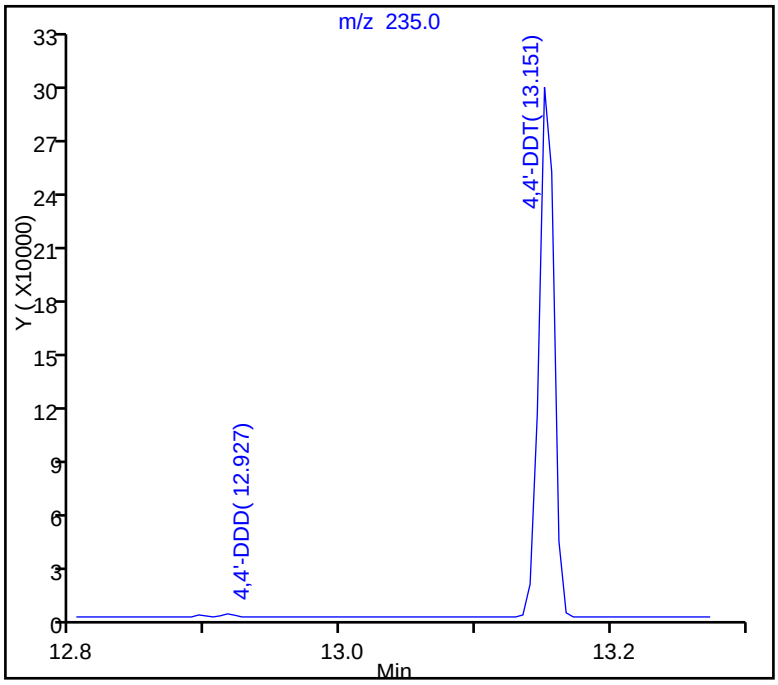
m/z	Y	m/z	Y	m/z	Y	m/z	Y
101.00	1724	169.00	197	231.00	494	372.00	1238
103.00	532	170.00	181	234.00	192	402.00	515
104.00	1261	172.00	354	235.00	311	403.00	609
105.00	1051	173.00	368	236.00	206	421.00	362
107.00	14490	174.00	1116	237.00	209	422.00	387
108.00	2224	175.00	2083	241.00	225	423.00	3632
110.00	23656	176.00	516	242.00	685	424.00	636
111.00	3599	177.00	1008	243.00	622	441.00	9736
112.00	200	179.00	4067	244.00	9905	442.00	68672
116.00	617	180.00	2546	245.00	1415	443.00	12881
117.00	14931	181.00	1233	246.00	2455	444.00	1032
118.00	1076	185.00	1945	247.00	231		

Breakdown Report

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973X\20141029-36818.b\X00905559.D
Injection Date: 29-Oct-2014 08:04:30 Instrument ID: HP5973X
Lims ID: DFTPP
Client ID:
Operator ID: LMW ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: X-8270 Limit Group: MB - 8270D ICAL

235 4,4'-DDT, Detector: MS SCAN



SW-846 Method

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

235 4,4'-DDT, Area = 232932
234 4,4'-DDD, Area = 1065
233 4,4'-DDE, Area = 0

%Breakdown: 0.46%, Max Limit: 20.00%
Passed

Peak Tailing Report

TestAmerica Buffalo

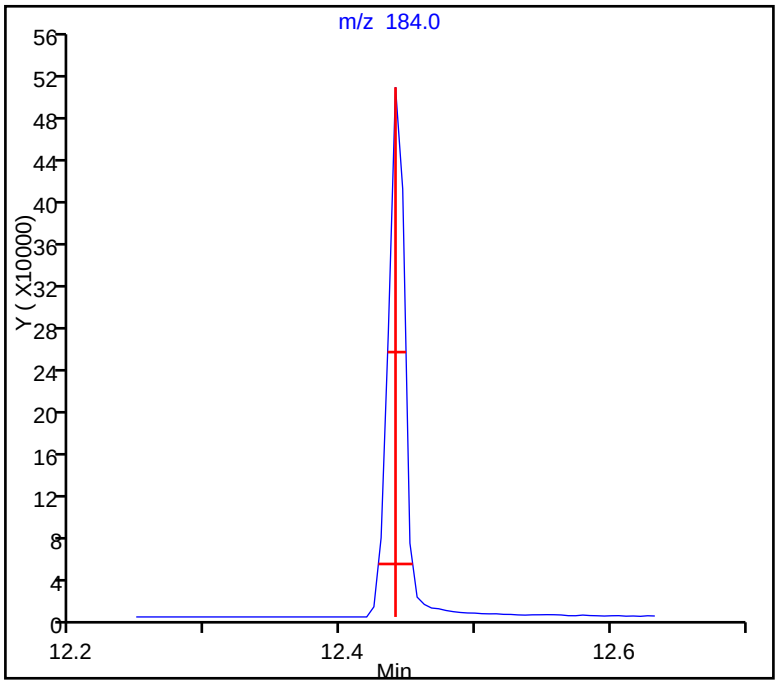
Data File: \\Bufchrom\ChromData\HP5973X\20141029-36818.b\X00905559.D
Injection Date: 29-Oct-2014 08:04:30 Instrument ID: HP5973X
Lims ID: DFTPP
Client ID:
Operator ID: LMW ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: X-8270 Limit Group: MB - 8270D ICAL

232 Benzidine_T, Detector: MS SCAN

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

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

Tailing Factor = 1.0, Max. Tailing < 2.00
Passed



Peak Tailing Report

TestAmerica Buffalo

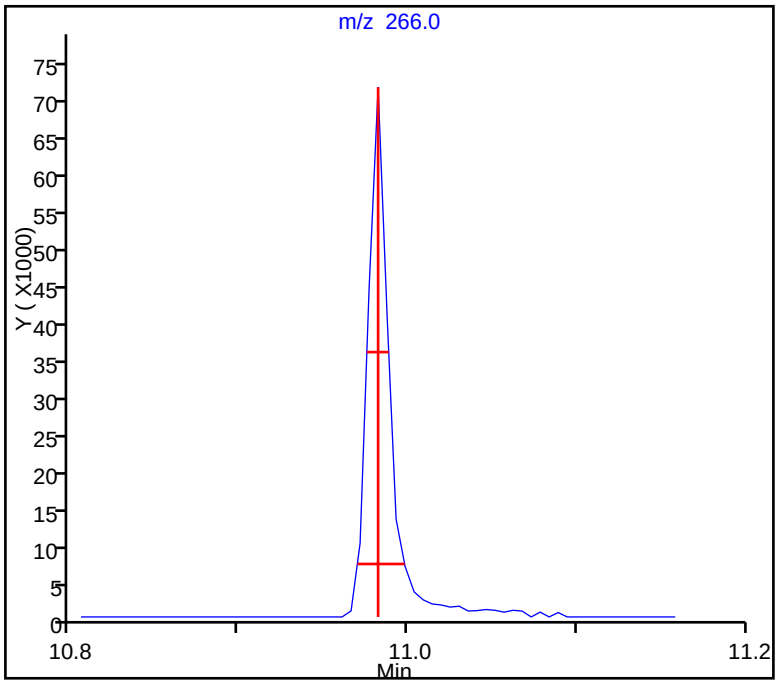
Data File: \\Bufchrom\ChromData\HP5973X\20141029-36818.b\X00905559.D
Injection Date: 29-Oct-2014 08:04:30 Instrument ID: HP5973X
Lims ID: DFTPP
Client ID:
Operator ID: LMW ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: X-8270 Limit Group: MB - 8270D ICAL

230 Pentachlorophenol_T, Detector: MS SCAN

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

Back Width = 0.016 (min.)
Front Width = 0.012 (min.)

Tailing Factor = 1.3, Max. Tailing < 2.00
Passed



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973X\20141030-36863.b\X00905591.D
Lims ID: DFTPP
Client ID:
Sample Type: DFTPP
Inject. Date: 30-Oct-2014 08:18:30 ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 480-0036863-002
Operator ID: LMW Instrument ID: HP5973X

Method: \\Bufchrom\ChromData\HP5973X\20141030-36863.b\X-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 30-Oct-2014 15:20:39 Calib Date: 16-Oct-2014 10:43:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5973X\20141016-36383.b\X00906835.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK011

First Level Reviewer: WolfL Date: 30-Oct-2014 08:49:04

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152		5.950					0	
* 2 Naphthalene-d8	136		7.472					0	
* 3 Acenaphthene-d10	164		9.545					0	
* 4 Phenanthrene-d10	188		11.158					0	
* 5 Chrysene-d12	240		13.562					0	
* 6 Perylene-d12	264		14.796					0	
230 Pentachlorophenol_T	266	10.982	10.982	0.000	97	36469	NR	NR	
231 DFTPP									
232 Benzidine_T	184	12.441	12.441	0.000	99	292114	NR	NR	
234 4,4'-DDD	235		12.916					ND	
233 4,4'-DDE	246		13.015					ND	
235 4,4'-DDT	235	13.156	13.156	0.000	99	141022	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard
ND - Not Detected or Marked ND

Reagents:

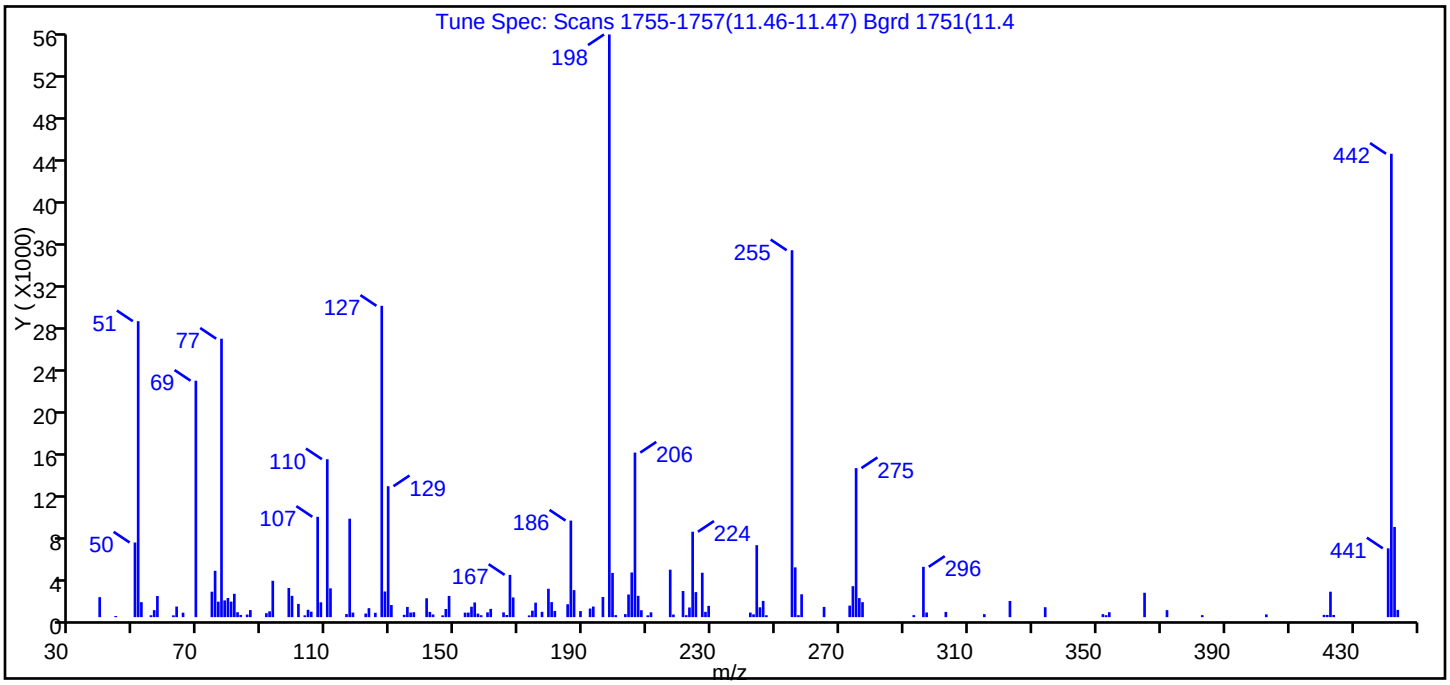
MB_DFTPP_WRK_00208 Amount Added: 1.00 Units: mL
MB_INTSTD_STK_00009 Amount Added: 20.00 Units: uL Run Reagent

MS Tune Report

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973X\20141030-36863.b\X00905591.D
Injection Date: 30-Oct-2014 08:18:30 Instrument ID: HP5973X
Lims ID: DFTPP
Client ID:
Operator ID: LMW ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: X-8270 Limit Group: MB - 8270D ICAL
Tune Method: DFTPP Method 8270D, BP 198

231 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	50.80
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Present	40.60
70	Less than 2.00% of mass 69	0.00 (0.00)
127	10.00 - 80.00% of mass 198	53.40
197	Less than 2.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	7.60
275	10.00 - 60.00% of mass 198	25.60
365	Greater than 1.00% of mass 198	4.20
441	Present, but Less than 24.00% of mass 442	11.80 (14.80)
442	Greater than 50.00% of mass 198	79.50
443	15.00 - 24.00% of mass 442	15.50 (19.50)

Data File: \\Bufchrom\ChromData\HP5973X\20141030-36863.b\X00905591.D\X-8270.rslt\spectra.d
Injection Date: 30-Oct-2014 08:18:30
Spectrum: Tune Spec: Scans 1755-1757(11.46-11.47) Bgrd 1751(11.4
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 142

m/z	Y	m/z	Y	m/z	Y	m/z	Y
39.00	1904	111.00	2740	177.00	509	246.00	1548
44.00	110	116.00	295	179.00	2701	247.00	181
50.00	7103	117.00	9368	180.00	1429	255.00	34920
51.00	28168	118.00	434	181.00	588	256.00	4739
52.00	1426	122.00	341	185.00	1230	257.00	187
55.00	179	123.00	855	186.00	9192	258.00	2178
56.00	665	125.00	414	187.00	2571	265.00	972
57.00	2011	127.00	29632	189.00	578	273.00	1098
62.00	172	128.00	2442	192.00	819	274.00	2949
63.00	1009	129.00	12464	193.00	1009	275.00	14183
65.00	426	130.00	1154	196.00	1920	276.00	1816
69.00	22504	134.00	224	198.00	55456	277.00	1425
74.00	2423	135.00	970	199.00	4207	293.00	192
75.00	4412	136.00	437	200.00	191	296.00	4789
76.00	1473	137.00	469	203.00	287	297.00	443
77.00	26504	141.00	1797	204.00	2155	303.00	500
78.00	1592	142.00	500	205.00	4252	315.00	285
79.00	1822	143.00	255	206.00	15662	323.00	1541
80.00	1475	146.00	170	207.00	2028	334.00	946
81.00	2221	147.00	775	208.00	659	352.00	287
82.00	467	148.00	2020	210.00	173	353.00	187
83.00	210	153.00	428	211.00	458	354.00	467
85.00	246	154.00	431	217.00	4518	365.00	2320
86.00	672	155.00	991	218.00	248	372.00	668
91.00	376	156.00	1397	221.00	2487	383.00	191
92.00	552	157.00	335	222.00	186	403.00	259
93.00	3460	158.00	183	223.00	920	421.00	221
98.00	2773	160.00	456	224.00	8130	422.00	212
99.00	2030	161.00	787	225.00	2383	423.00	2421
101.00	1260	165.00	454	227.00	4225	424.00	208
103.00	171	166.00	203	228.00	504	441.00	6549
104.00	701	167.00	4023	229.00	1072	442.00	44104
105.00	520	168.00	1876	242.00	433	443.00	8582

Report Date: 30-Oct-2014 15:20:40 Chrom Revision: 2.2 07-Oct-2014 12:16:06
Data File: \\Bufchrom\ChromData\HP5973X\20141030-36863.b\X00905591.D\X-8270.rslt\spectra.d
Injection Date: 30-Oct-2014 08:18:30
Spectrum: Tune Spec: Scans 1755-1757(11.46-11.47) Bgrd 1751(11.4
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 142

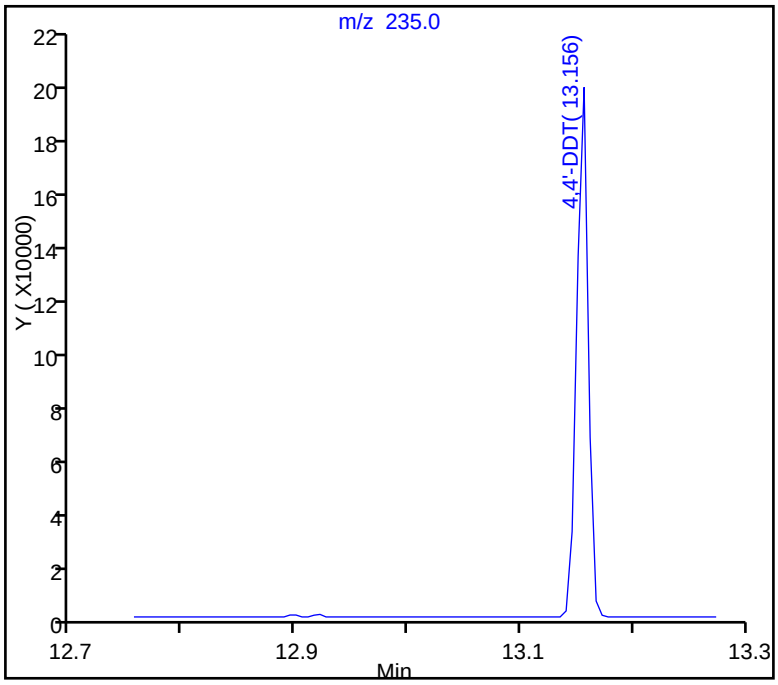
m/z	Y	m/z	Y	m/z	Y	m/z	Y
107.00	9550	173.00	166	243.00	269	444.00	690
108.00	1409	174.00	615	244.00	6851		
110.00	15031	175.00	1379	245.00	938		

Breakdown Report

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973X\20141030-36863.b\X00905591.D
Injection Date: 30-Oct-2014 08:18:30 Instrument ID: HP5973X
Lims ID: DFTPP
Client ID:
Operator ID: LMW ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: X-8270 Limit Group: MB - 8270D ICAL

235 4,4'-DDT, Detector: MS SCAN



SW-846 Method

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

235 4,4'-DDT, Area = 141022
234 4,4'-DDD, Area = 0
233 4,4'-DDE, Area = 0

%Breakdown: 0.00%, Max Limit: 20.00%
Passed

Peak Tailing Report

TestAmerica Buffalo

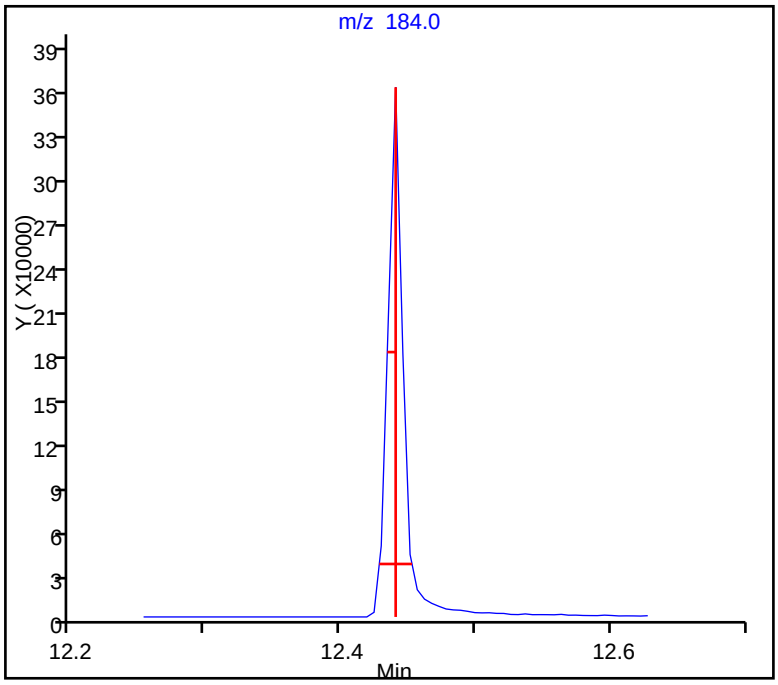
Data File: \\Bufchrom\ChromData\HP5973X\20141030-36863.b\X00905591.D
Injection Date: 30-Oct-2014 08:18:30 Instrument ID: HP5973X
Lims ID: DFTPP
Client ID:
Operator ID: LMW ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: X-8270 Limit Group: MB - 8270D ICAL

232 Benzidine_T, Detector: MS SCAN

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

Back Width = 0.012 (min.)
Front Width = 0.012 (min.)

Tailing Factor = 1.0, Max. Tailing < 2.00
Passed



Peak Tailing Report

TestAmerica Buffalo

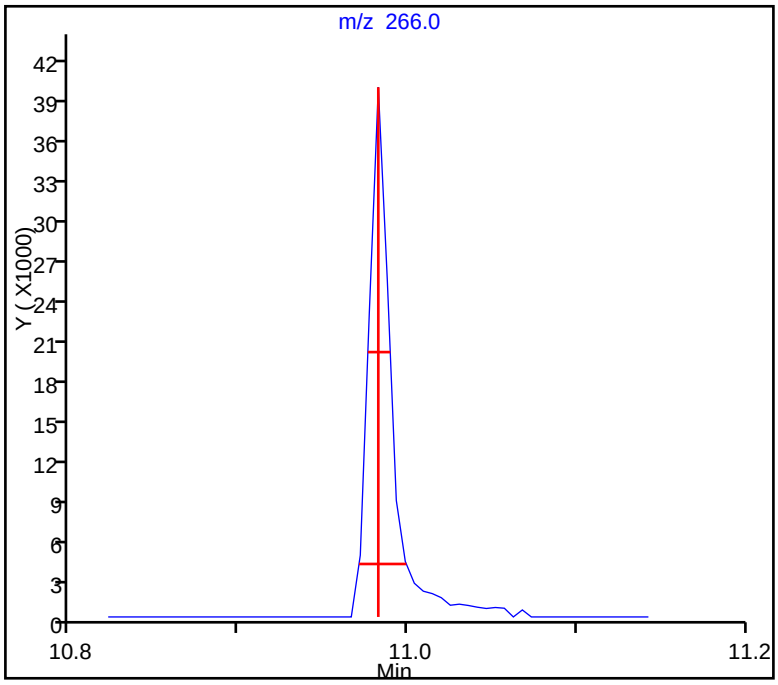
Data File: \\Bufchrom\ChromData\HP5973X\20141030-36863.b\X00905591.D
Injection Date: 30-Oct-2014 08:18:30 Instrument ID: HP5973X
Lims ID: DFTPP
Client ID:
Operator ID: LMW ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: X-8270 Limit Group: MB - 8270D ICAL

230 Pentachlorophenol_T, Detector: MS SCAN

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

Back Width = 0.017 (min.)
Front Width = 0.011 (min.)

Tailing Factor = 1.5, Max. Tailing < 2.00
Passed



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-70101-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 480-210189/1-A

Matrix: Solid | Lab File ID: X00905595.D

Analysis Method: 8270D | Date Collected:

Extract. Method: 3550C | Date Extracted: 10/27/2014 08:44

Sample wt/vol: +30.61(g) | Date Analyzed: 10/30/2014 10:09

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.: 210927 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	Biphenyl	ND		170	25
108-60-1	bis (2-chloroisopropyl) ether	ND		170	33
95-95-4	2,4,5-Trichlorophenol	ND		170	45
88-06-2	2,4,6-Trichlorophenol	ND		170	33
120-83-2	2,4-Dichlorophenol	ND		170	18
105-67-9	2,4-Dimethylphenol	ND		170	40
51-28-5	2,4-Dinitrophenol	ND		320	100
121-14-2	2,4-Dinitrotoluene	ND		170	34
606-20-2	2,6-Dinitrotoluene	ND		170	20
91-58-7	2-Chloronaphthalene	ND		170	27
95-57-8	2-Chlorophenol	ND		170	30
91-57-6	2-Methylnaphthalene	ND		170	33
95-48-7	2-Methylphenol	ND		170	20
88-74-4	2-Nitroaniline	ND		320	25
88-75-5	2-Nitrophenol	ND		170	47
91-94-1	3,3'-Dichlorobenzidine	ND		320	200
99-09-2	3-Nitroaniline	ND		320	46
534-52-1	4,6-Dinitro-2-methylphenol	ND		320	170
101-55-3	4-Bromophenyl phenyl ether	ND		170	24
59-50-7	4-Chloro-3-methylphenol	ND		170	41
106-47-8	4-Chloroaniline	ND		170	41
7005-72-3	4-Chlorophenyl phenyl ether	ND		170	21
106-44-5	4-Methylphenol	ND		320	20
100-01-6	4-Nitroaniline	ND		320	87
100-02-7	4-Nitrophenol	ND		320	120
83-32-9	Acenaphthene	ND		170	25
208-96-8	Acenaphthylene	ND		170	22
98-86-2	Acetophenone	ND		170	23
120-12-7	Anthracene	ND		170	41
1912-24-9	Atrazine	ND		170	58
100-52-7	Benzaldehyde	ND		170	130
56-55-3	Benzo(a)anthracene	ND		170	17
50-32-8	Benzo(a)pyrene	ND		170	25
205-99-2	Benzo(b)fluoranthene	ND		170	26

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-70101-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 480-210189/1-A

Matrix: Solid | Lab File ID: X00905595.D

Analysis Method: 8270D | Date Collected:

Extract. Method: 3550C | Date Extracted: 10/27/2014 08:44

Sample wt/vol: +30.61(g) | Date Analyzed: 10/30/2014 10:09

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.: 210927 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
191-24-2	Benzo(g,h,i)perylene	ND		170	18
207-08-9	Benzo(k)fluoranthene	ND		170	22
111-91-1	Bis(2-chloroethoxy)methane	ND		170	35
111-44-4	Bis(2-chloroethyl)ether	ND		170	22
117-81-7	Bis(2-ethylhexyl) phthalate	ND		170	57
85-68-7	Butyl benzyl phthalate	ND		170	27
105-60-2	Caprolactam	ND		170	50
86-74-8	Carbazole	ND		170	20
218-01-9	Chrysene	ND		170	37
84-74-2	Di-n-butyl phthalate	ND		170	28
117-84-0	Di-n-octyl phthalate	ND		170	20
53-70-3	Dibenz(a,h)anthracene	ND		170	29
132-64-9	Dibenzofuran	ND		170	20
84-66-2	Diethyl phthalate	ND		170	22
131-11-3	Dimethyl phthalate	ND		170	20
206-44-0	Fluoranthene	ND		170	18
86-73-7	Fluorene	ND		170	20
118-74-1	Hexachlorobenzene	ND		170	23
87-68-3	Hexachlorobutadiene	ND		170	25
77-47-4	Hexachlorocyclopentadiene	ND		170	23
67-72-1	Hexachloroethane	ND		170	22
193-39-5	Indeno(1,2,3-cd)pyrene	ND		170	21
78-59-1	Isophorone	ND		170	35
621-64-7	N-Nitrosodi-n-propylamine	ND		170	28
86-30-6	N-Nitrosodiphenylamine	ND		170	140
91-20-3	Naphthalene	ND		170	22
98-95-3	Nitrobenzene	ND		170	19
87-86-5	Pentachlorophenol	ND		320	170
85-01-8	Phenanthrene	ND		170	25
108-95-2	Phenol	ND		170	25
129-00-0	Pyrene	ND		170	20

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-70101-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 480-210189/1-A

Matrix: Solid | Lab File ID: X00905595.D

Analysis Method: 8270D | Date Collected:

Extract. Method: 3550C | Date Extracted: 10/27/2014 08:44

Sample wt/vol: +30.61(g) | Date Analyzed: 10/30/2014 10:09

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.: 210927 | Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol	88		39-146
321-60-8	2-Fluorobiphenyl	98		37-120
367-12-4	2-Fluorophenol	90		18-120
4165-60-0	Nitrobenzene-d5	92		34-132
1718-51-0	p-Terphenyl-d14	111		65-153
4165-62-2	Phenol-d5	91		11-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973X\20141030-36863.b\X00905595.D
Lims ID: MB 480-210189/1-A
Client ID:
Sample Type: MB
Inject. Date: 30-Oct-2014 10:09:30 ALS Bottle#: 2 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 480-0036863-006
Operator ID: LMW Instrument ID: HP5973X

Method: \\Bufchrom\ChromData\HP5973X\20141030-36863.b\X-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 30-Oct-2014 15:20:43 Calib Date: 16-Oct-2014 10:43:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5973X\20141016-36383.b\X00906835.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK011

First Level Reviewer: WolfL Date: 30-Oct-2014 15:16:40

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.944	5.950	-0.006	97	40660	40.0	40.0	
* 2 Naphthalene-d8	136	7.462	7.472	-0.010	98	156026	40.0	40.0	
* 3 Acenaphthene-d10	164	9.540	9.545	-0.005	99	88700	40.0	40.0	
* 4 Phenanthrene-d10	188	11.158	11.158	0.000	99	159710	40.0	40.0	
* 5 Chrysene-d12	240	13.568	13.562	0.006	99	173712	40.0	40.0	
* 6 Perylene-d12	264	14.802	14.796	0.006	98	160641	40.0	40.0	
$ 7 2-Fluorophenol	112	4.347	4.347	0.000	97	53256	50.0	44.8	
$ 8 Phenol-d5	99	5.533	5.538	-0.005	94	66637	50.0	45.7	
$ 9 Nitrobenzene-d5	82	6.612	6.617	-0.005	95	58206	50.0	46.0	
$ 10 2-Fluorobiphenyl	172	8.754	8.760	-0.006	100	121780	50.0	49.0	
$ 11 2,4,6-Tribromophenol	330	10.443	10.448	-0.005	94	18032	50.0	44.2	
$ 12 p-Terphenyl-d14	244	12.649	12.643	0.006	98	163195	50.0	55.7	
$ 13 2-Fluorobiphenyl (Surr)	172		0.000					ND	
14 Triethyl amine	86		1.637					ND	
15 1,4-Dioxane	88		2.269					ND	
16 N-Nitrosodimethylamine	42		2.584					ND	
17 Pyridine	52		2.648					ND	
18 2-Picoline	93		3.589					ND	
19 N-Nitrosomethylethylamine	88		3.717					ND	
20 Methyl methanesulfonate	80		4.123					ND	
21 Acrylamide	44		4.149					ND	
22 4-Chloropyridine	78		4.528					ND	
23 3-Chloropyridine	78		4.608					ND	
24 N-Nitrosodiethylamine	102		4.630					ND	
25 Ethyl methanesulfonate	79		5.015					ND	
26 2-Chloropyridine	78		5.100					ND	
27 Benzaldehyde	77		5.415					ND	
28 Phenol	94		5.554					ND	
29 Aniline	93		5.549					ND	
31 Bis(2-chloroethyl)ether	93		5.634					ND	
30 Pentachloroethane	167		5.608					ND	
32 2-Chlorophenol	128		5.699					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
35 n-Decane	57	5.763	5.763	0.000	84	1695		1.03	
33 p-Fluoroaniline	111		5.815					ND	
34 n,n'-Dimethylaniline	120		5.838					ND	
36 1,3-Dichlorobenzene	146		5.875					ND	
37 1,4-Dichlorobenzene	146		5.966					ND	
38 Benzyl alcohol	108		6.131					ND	
39 1,2-Dichlorobenzene	146		6.147					ND	
229 Indene	115		6.254					ND	
40 2-Methylphenol	108		6.281					ND	
42 2,2'-oxybis[1-chloropropan	45		6.297					ND	
45 Acetophenone	105		6.441					ND	
43 N-Nitrosopyrrolidine	100		6.415					ND	
47 N-Nitrosodi-n-propylamine	70		6.446					ND	
46 4-Methylphenol	108		6.479					ND	
44 N-Nitrosomorpholine	56		6.468					ND	
49 4-Methylbenzenamine	106		6.473					ND	
48 2-Toluidine	106		6.484					ND	
50 Hexachloroethane	117		6.553					ND	
52 Nitrobenzene	77		6.644					ND	
51 o-Anisidine	108		6.670					ND	
53 2,6-Dichloropyridine	112		6.713					ND	
54 N-Nitrosopiperidine	114		6.821					ND	
56 Isophorone	82		6.933					ND	
57 2-Chloroaniline	127		6.970					ND	
58 2-Nitrophenol	139		7.023					ND	
59 2,4-Dimethylphenol	107		7.104					ND	
61 Tetraethyl lead	237		7.114					ND	
62 Bis(2-chloroethoxy)methane	93		7.205					ND	
60 o,o',o''-Triethylphosphoro	198		7.173					ND	
64 Benzoic acid	105		7.237					ND	
65 2,4-Dichlorophenol	162		7.333					ND	
67 1,2,4-Trichlorobenzene	180		7.408					ND	
66 5-Methyl-o-Anisidine	122		7.416					ND	
63 alpha,alpha-Dimethyl phene	58		7.456					ND	
69 Naphthalene	128		7.499					ND	
71 4-Chloroaniline	127		7.584					ND	
70 2,6-Dichlorophenol	162		7.585					ND	
72 Hexachloropropene	213		7.601					ND	
73 Hexachlorobutadiene	225		7.648					ND	
41 Alpha-Terpineol	59		7.627					ND	
74 Quinoline	129		7.894					ND	
78 Caprolactam	113		7.974					ND	
76 N-Nitrosodi-n-butylamine	84		7.985					ND	
75 2-Aminopyridine	94		8.000					ND	
77 p-Phenylene diamine	108		8.001					ND	
79 4-Chloro-3-methylphenol	107		8.188					ND	
80 Safrole, Total	162		8.231					ND	
82 2-Methylnaphthalene	142		8.322					ND	
55 Phthalic anhydride	104		8.396					ND	
83 1-Methylnaphthalene	142		8.439					ND	
84 Hexachlorocyclopentadiene	237		8.509					ND	
85 1,2,4,5-Tetrachlorobenzene	216		8.519					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
86 2,4,6-Trichlorophenol	196		8.674					ND	
87 2,4,5-Trichlorophenol	196		8.733					ND	
89 Isosafrole	162		8.845					ND	
90 1,1'-Biphenyl	154		8.877					ND	
91 2-Chloronaphthalene	162		8.893					ND	
92 1-Chloronaphthalene	162		8.920					ND	
93 2-Nitroaniline	65		9.032					ND	
68 Dicyclohexylamine	138		9.107					ND	
94 1,4-Naphthoquinone	158		9.118					ND	
95 1,4-Dinitrobenzene	168		9.203					ND	
96 Dimethyl phthalate	163		9.251					ND	
97 1,3-Dinitrobenzene	168		9.299					ND	
99 2,6-Dinitrotoluene	165		9.321					ND	
100 Acenaphthylene	152		9.379					ND	
101 3-Nitroaniline	138		9.502					ND	
102 Acenaphthene	153		9.582					ND	
103 2,4-Dinitrophenol	184		9.668					ND	
105 Pentachlorobenzene	250		9.748					ND	
104 4-Nitrophenol	109		9.801					ND	
107 Dibenzofuran	168		9.791					ND	
106 2,4-Dinitrotoluene	165		9.801					ND	
108 1-Naphthylamine	143		9.892					ND	
109 2,3,5,6-Tetrachlorophenol	232		9.903					ND	
110 2,3,4,6-Tetrachlorophenol	232		9.951					ND	
111 2-Naphthylamine	143		9.983					ND	
112 Diethyl phthalate	149		10.074					ND	
138 Hexadecane	57		10.101					ND	
115 Fluorene	166		10.175					ND	
116 4-Chlorophenyl phenyl ethe	204		10.186					ND	
114 Thionazin	97		10.170					ND	
118 4-Nitroaniline	138		10.223					ND	
117 N-Nitro-o-toluidine	152		10.218					ND	
119 4,6-Dinitro-2-methylphenol	198		10.261					ND	
120 N-Nitrosodiphenylamine	169		10.320					ND	
81 Tributyl phosphate	99		10.314					ND	
121 Diphenylamine	169		10.325					ND	
123 1,2-Diphenylhydrazine	77		10.357					ND	
122 Azobenzene	77		10.357					ND	
124 Sulfotepp	322		10.517					ND	
127 Diallate	43		10.640					ND	
128 Phorate	75		10.646					ND	
129 Phenacetin	108		10.683					ND	
130 4-Bromophenyl phenyl ether	248		10.710					ND	
131 Hexachlorobenzene	284		10.768					ND	
125 1,3,5-Trinitrobenzene	213		10.768					ND	
132 Dimethoate	87		10.833					ND	
88 Simazine	201		10.875					ND	
133 Atrazine	200		10.897					ND	
134 Pentachlorophenol	266		10.987					ND	
135 4-Aminobiphenyl	169		10.988					ND	
136 Pentachloronitrobenzene	237		10.993					ND	
113 n-Octadecane	57		11.073					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
137 Pronamide	173		11.062					ND	
141 Phenanthrene	178		11.180					ND	
140 Disulfoton	88		11.180					ND	
139 Dinoseb	211		11.180					ND	
142 Anthracene	178		11.233					ND	
143 Carbazole	167		11.404					ND	
98 Alachlor	160		11.538					ND	
144 Methyl parathion	109		11.548					ND	
145 Di-n-butyl phthalate	149		11.741					ND	
146 Ethyl Parathion	97		11.912					ND	
147 4-Nitroquinoline-1-oxide	190		11.949					ND	
148 Anthraquinone	180		11.960					ND	
149 Methapyrilene	58		12.008					ND	
151 Isodrin	193		12.173					ND	
150 Octachlorostyrene	308		12.264					ND	
152 Fluoranthene	202		12.302					ND	
153 1-Hydroxyanthraquinone	224		12.350					ND	
154 Benzidine	184		12.419					ND	
155 Pyrene	202		12.505					ND	
156 Aramite, Total	185		12.708					ND	
157 1,4-Dihydroxyanthraquinone	240		12.761					ND	
158 p-Dimethylamino azobenzene	120		12.783					ND	
159 Chlorobenzilate	139		12.820					ND	
160 Famphur	218		13.034					ND	
162 Butyl benzyl phthalate	149		13.066					ND	
161 3,3'-Dimethylbenzidine	212		13.076					ND	
163 9-Octadecenamide	72		13.082					ND	
126 Kepone	272		13.108					ND	
164 2-Acetylaminofluorene	181		13.301					ND	
166 3,3'-Dichlorobenzidine	252		13.530					ND	
167 Benzo[a]anthracene	228		13.552					ND	
165 4,4'-Methylene bis(2-chlor	231		13.541					ND	
172 Bis(2-ethylhexyl) phthalat	149		13.557					ND	
169 Chrysene	228		13.584					ND	
170 6-Methylchrysene	242		13.979					ND	
168 Di-n-octyl phthalate	149		14.091					ND	
171 Tricresyl phosphate	368		14.147					ND	
174 Benzo[b]fluoranthene	252		14.455					ND	
173 7,12-Dimethylbenz(a)anthra	256		14.455					ND	
175 Benzo[k]fluoranthene	252		14.476					ND	
176 Hexachlorophene	196		14.663					ND	
177 Benzo[a]pyrene	252		14.743					ND	
178 3-Methylcholanthrene	252		15.069					ND	
179 Dibenz[a,h]acridine	279		15.598					ND	
180 Indeno[1,2,3-cd]pyrene	276		15.843					ND	
181 Dibenz(a,h)anthracene	278		15.849					ND	
182 Benzo[g,h,i]perylene	276		16.148					ND	
183 Dibenzo[a,e]pyrene	302		16.231					ND	
186 Dibenz[a,j]acridine	279		0.000					ND	
269 2,3-Dichlorobenzenamine	161		0.000					ND	
217 1-Bromopropane	1		0.000					ND	
206 1,3,5-Trichlorobenzene	180		0.000					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
268 Benzo[e]pyrene	1		0.000					ND	
202 4-Chlorotoluene	91		0.000					ND	
201 2,3-Dichlorophenol	1		0.000					ND	
189 2,4'-DDE	1		0.000					ND	
227 Dimethylformamide	1		0.000					ND	
207 3-Chlorobenzotrifluoride	1		0.000					ND	
224 CBF-400	1		0.000					ND	
267 2,4,5-Trichlorotoluene	1		0.000					ND	
221 CBF-500	1		0.000					ND	
220 Benzo[j]fluoranthene	1		0.000					ND	
209 7H-Dibenzo[c,g]carbazole	1		0.000					ND	
190 Benzeneacetonitrile	1		0.000					ND	
271 2-Methylanthracene	1		0.000					ND	
191 N-Methylaniline	1		0.000					ND	
199 2-Chlorotoluene	91		0.000					ND	
228 2,4'-DDT	1		0.000					ND	
212 2,4-Dichlorotoluene	1		0.000					ND	
270 1,2,3,4 -Tetrachlorobenzen	216		0.000					ND	
216 4-Chlorobenzotrifluoride	1		0.000					ND	
211 5-Ethyl-5-phenyl barbituri	1		0.000					ND	
188 CAG-800	1		0.000					ND	
226 2,6-Dichlorotoluene	1		0.000					ND	
208 n,n'-Dimethylacetamide	1		0.000					ND	
187 4-Chlorobenzotrifluoride T	1		0.000					ND	
203 Pendimethalin	1		0.000					ND	
195 Phenylacetic Acid	1		0.000					ND	
213 Chlorobenzotrifluoride N.O	1		0.000					ND	
223 2-Chlorobenzotrifluoride	1		0.000					ND	
200 Dibenzo[a,h]pyrene	1		0.000					ND	
192 NVF-400	1		0.000					ND	
225 2,4-Toluene diamine	1		0.000					ND	
215 1-Methylcyclopentanol	1		0.000					ND	
198 2-Chlorobenzotrifluoride T	1		0.000					ND	
197 3-Chlorobenzotrifluoride T	1		0.000					ND	
194 CN-500	1		0.000					ND	
193 Dibenz(a,i)pyrene	1		0.000					ND	
196 CU-600	1		0.000					ND	
222 2,6-Dichlorotoluene TIC	1		0.000					ND	
185 Phenylmercaptan	110		0.000					ND	
204 Chlorotoluene N.O.S	1		0.000					ND	
210 3-Chlorotoluene	1		0.000					ND	
184 4-Chlorophenol	1		0.000					ND	
205 Lidocaine	1		0.000					ND	
219 alpha,alpha-Dimethyl phene	1		0.000					ND	
214 2,4'-DDD	235		0.000					ND	
218 2,4-Dichlorotoluene TIC	1		0.000					ND	
S 236 3 & 4 Methylphenol	108		0.000					0	
S 237 Total Cresols	1		0.000					0	
S 238 3-Methylphenol	1		0.000					0	
S 239 EPH Adjustment 1	1		0.000					0	
T 240 o-Anisidine TIC	108		6.000					0	
T 241 1,3-phenylenediamine TIC	108		6.000					0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
T 242 5-Methyl-o-Anisidine TIC	122		6.000					0	
T 243 Tris(2,3-dibromopropyl)pho	201		6.000					0	
T 244 4,4'-Methylene bis(2-chlor	231		6.000					0	
T 245 2,4-Xylidine TIC	121		6.000					0	
T 246 Benefin (TIC)	292		8.000					0	
T 247 Benzeneacetic acid (TIC)	91		8.000					0	
T 248 Tetramethyl lead TIC	253		8.000					0	
T 249 trans Azobenzene (TIC)	77		8.000					0	
T 250 Pendimethalin (TIC)	252		8.000					0	
T 251 Prometryn (TIC)	241		8.000					0	
T 252 1-Methylnaphthalene (TIC)	142		8.320					0	
T 253 Hexamethyldisiloxane TIC	147		3.000					0	
T 254 2,3,7,8-TCDD	322		8.000					0	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

MB_INTSTD_STK_00009 Amount Added: 20.00 Units: uL Run Reagent

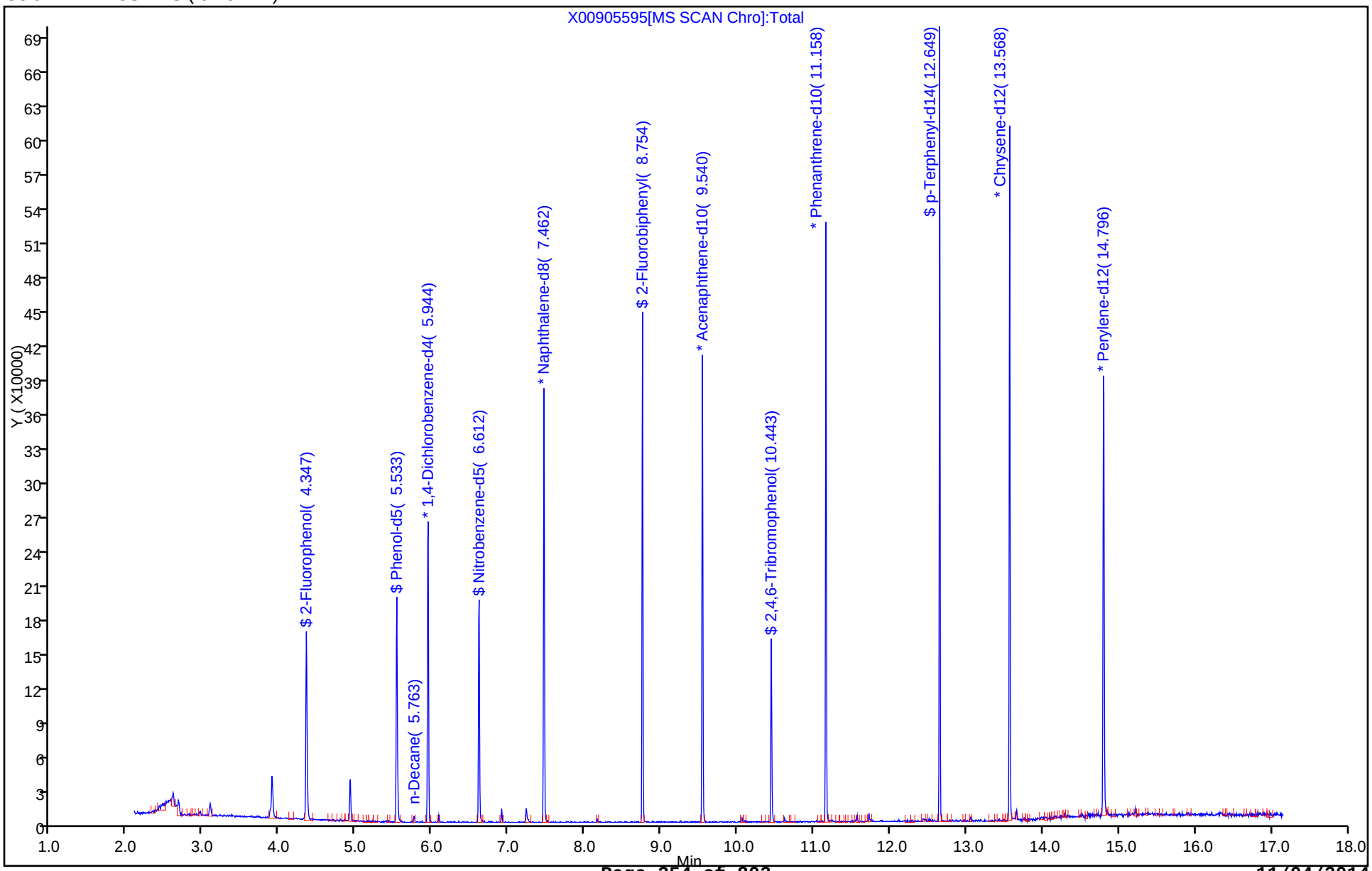
Report Date: 30-Oct-2014 15:20:46 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973X\20141030-36863.b\X00905595.D

Injection Date:	30-Oct-2014 10:09:30	Instrument ID:	HP5973X	Operator ID:	LMW
Lims ID:	MB 480-210189/1-A			Worklist Smp#:	6
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	X-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-70101-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 480-210189/2-A

Matrix: Solid | Lab File ID: X00905565.D

Analysis Method: 8270D | Date Collected:

Extract. Method: 3550C | Date Extracted: 10/27/2014 08:44

Sample wt/vol: +30.58(g) | Date Analyzed: 10/29/2014 10:41

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.: 210655 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	Biphenyl	1570		170	25
108-60-1	bis (2-chloroisopropyl) ether	1490		170	33
95-95-4	2,4,5-Trichlorophenol	1700		170	45
88-06-2	2,4,6-Trichlorophenol	1600		170	33
120-83-2	2,4-Dichlorophenol	1570		170	18
105-67-9	2,4-Dimethylphenol	1570		170	40
51-28-5	2,4-Dinitrophenol	2880		320	100
121-14-2	2,4-Dinitrotoluene	1670		170	34
606-20-2	2,6-Dinitrotoluene	1640		170	20
91-58-7	2-Chloronaphthalene	1530		170	27
95-57-8	2-Chlorophenol	1530		170	30
91-57-6	2-Methylnaphthalene	1510		170	33
95-48-7	2-Methylphenol	1470		170	20
88-74-4	2-Nitroaniline	1730		320	25
88-75-5	2-Nitrophenol	1500		170	47
91-94-1	3,3'-Dichlorobenzidine	2850		320	200
99-09-2	3-Nitroaniline	1500		320	46
534-52-1	4,6-Dinitro-2-methylphenol	3250		320	170
101-55-3	4-Bromophenyl phenyl ether	1650		170	24
59-50-7	4-Chloro-3-methylphenol	1660		170	41
106-47-8	4-Chloroaniline	1250		170	41
7005-72-3	4-Chlorophenyl phenyl ether	1530		170	21
106-44-5	4-Methylphenol	1540		320	20
100-01-6	4-Nitroaniline	1550		320	87
100-02-7	4-Nitrophenol	3110		320	120
83-32-9	Acenaphthene	1580		170	25
208-96-8	Acenaphthylene	1580		170	22
98-86-2	Acetophenone	1410		170	23
120-12-7	Anthracene	1650		170	41
1912-24-9	Atrazine	3420		170	58
100-52-7	Benzaldehyde	3280		170	130
56-55-3	Benzo(a)anthracene	1670		170	17
50-32-8	Benzo(a)pyrene	1750		170	25
205-99-2	Benzo(b)fluoranthene	1780		170	26

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-70101-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 480-210189/2-A

Matrix: Solid | Lab File ID: X00905565.D

Analysis Method: 8270D | Date Collected:

Extract. Method: 3550C | Date Extracted: 10/27/2014 08:44

Sample wt/vol: +30.58(g) | Date Analyzed: 10/29/2014 10:41

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.: 210655 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
191-24-2	Benzo(g,h,i)perylene	1770		170	18
207-08-9	Benzo(k)fluoranthene	1730		170	22
111-91-1	Bis(2-chloroethoxy)methane	1490		170	35
111-44-4	Bis(2-chloroethyl)ether	1350		170	22
117-81-7	Bis(2-ethylhexyl) phthalate	1710		170	57
85-68-7	Butyl benzyl phthalate	1710		170	27
105-60-2	Caprolactam	6700		170	50
86-74-8	Carbazole	1690		170	20
218-01-9	Chrysene	1690		170	37
84-74-2	Di-n-butyl phthalate	1710		170	28
117-84-0	Di-n-octyl phthalate	1710		170	20
53-70-3	Dibenz(a,h)anthracene	1730		170	29
132-64-9	Dibenzofuran	1620		170	20
84-66-2	Diethyl phthalate	1670		170	22
131-11-3	Dimethyl phthalate	1620		170	20
206-44-0	Fluoranthene	1680		170	18
86-73-7	Fluorene	1560		170	20
118-74-1	Hexachlorobenzene	1610		170	23
87-68-3	Hexachlorobutadiene	1460		170	25
77-47-4	Hexachlorocyclopentadiene	1170		170	23
67-72-1	Hexachloroethane	1300		170	22
193-39-5	Indeno(1,2,3-cd)pyrene	1710		170	21
78-59-1	Isophorone	1510		170	35
621-64-7	N-Nitrosodi-n-propylamine	1420		170	28
86-30-6	N-Nitrosodiphenylamine	3280		170	140
91-20-3	Naphthalene	1470		170	22
98-95-3	Nitrobenzene	1450		170	19
87-86-5	Pentachlorophenol	2660		320	170
85-01-8	Phenanthrene	1650		170	25
108-95-2	Phenol	1420		170	26
129-00-0	Pyrene	1710		170	20

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-70101-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 480-210189/2-A

Matrix: Solid | Lab File ID: X00905565.D

Analysis Method: 8270D | Date Collected:

Extract. Method: 3550C | Date Extracted: 10/27/2014 08:44

Sample wt/vol: +30.58(g) | Date Analyzed: 10/29/2014 10:41

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.: 210655 | Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol	104		39-146
321-60-8	2-Fluorobiphenyl	97		37-120
367-12-4	2-Fluorophenol	91		18-120
4165-60-0	Nitrobenzene-d5	93		34-132
1718-51-0	p-Terphenyl-d14	105		65-153
4165-62-2	Phenol-d5	92		11-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973X\20141029-36818.b\X00905565.D
Lims ID: LCS 480-210189/2-A
Client ID:
Sample Type: LCS
Inject. Date: 29-Oct-2014 10:41:30 ALS Bottle#: 4 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 480-0036818-008
Operator ID: LMW Instrument ID: HP5973X

Method: \\Bufchrom\ChromData\HP5973X\20141029-36818.b\X-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 30-Oct-2014 14:20:39 Calib Date: 16-Oct-2014 10:43:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5973X\20141016-36383.b\X00906835.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK011

First Level Reviewer: WolfL Date: 29-Oct-2014 15:41:58

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.950	5.944	0.006	96	36733	40.0	40.0	
* 2 Naphthalene-d8	136	7.467	7.462	0.005	98	141757	40.0	40.0	
* 3 Acenaphthene-d10	164	9.545	9.540	0.005	98	81354	40.0	40.0	
* 4 Phenanthrene-d10	188	11.158	11.158	0.000	99	147329	40.0	40.0	
* 5 Chrysene-d12	240	13.573	13.568	0.005	98	159928	40.0	40.0	
* 6 Perylene-d12	264	14.802	14.802	0.000	98	154118	40.0	40.0	
$ 7 2-Fluorophenol	112	4.352	4.342	0.010	98	48573	50.0	45.3	
$ 8 Phenol-d5	99	5.538	5.533	0.005	94	60826	50.0	46.2	
$ 9 Nitrobenzene-d5	82	6.617	6.612	0.005	97	53533	50.0	46.6	
$ 10 2-Fluorobiphenyl	172	8.760	8.754	0.006	100	110049	50.0	48.3	
$ 11 2,4,6-Tribromophenol	330	10.448	10.443	0.005	95	19527	50.0	51.9	
$ 12 p-Terphenyl-d14	244	12.649	12.649	0.000	98	141900	50.0	52.6	
15 1,4-Dioxane	88	2.269	2.269	0.000	90	10705	50.0	25.6	
16 N-Nitrosodimethylamine	42	2.584	2.584	0.000	89	28941	50.0	44.2	
17 Pyridine	52	2.637	2.648	-0.011	89	33813	50.0	32.8	
27 Benzaldehyde	77	5.415	5.416	-0.001	94	63404	100.0	100.2	
29 Aniline	93	5.554	5.544	0.010	67	57818	50.0	33.7	
28 Phenol	94	5.554	5.549	0.005	82	63258	50.0	43.3	
31 Bis(2-chloroethyl)ether	93	5.640	5.629	0.011	97	43627	50.0	41.3	
32 2-Chlorophenol	128	5.699	5.693	0.006	98	54649	50.0	46.7	
35 n-Decane	57	5.763	5.757	0.006	94	56518	50.0	38.1	
36 1,3-Dichlorobenzene	146	5.875	5.870	0.005	97	51837	50.0	39.8	
37 1,4-Dichlorobenzene	146	5.966	5.960	0.006	97	52657	50.0	39.8	
38 Benzyl alcohol	108	6.131	6.126	0.005	95	33832	50.0	45.7	
39 1,2-Dichlorobenzene	146	6.147	6.142	0.005	95	51300	50.0	41.3	
229 Indene	115	6.254	6.249	0.005	0	164154	100.0	89.2	
40 2-Methylphenol	108	6.281	6.276	0.005	97	46012	50.0	45.0	
42 2,2'-oxybis[1-chloropropan	45	6.297	6.292	0.005	92	84129	50.0	45.7	
45 Acetophenone	105	6.441	6.431	0.010	94	68652	50.0	43.2	
47 N-Nitrosodi-n-propylamine	70	6.447	6.441	0.005	96	33913	50.0	43.4	
46 4-Methylphenol	108	6.473	6.473	0.000	94	49814	50.0	47.1	
50 Hexachloroethane	117	6.548	6.543	0.005	95	21226	50.0	39.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
52 Nitrobenzene	77	6.639	6.634	0.005	97	49712	50.0	44.4	
56 Isophorone	82	6.927	6.922	0.005	99	94327	50.0	46.2	
58 2-Nitrophenol	139	7.018	7.018	0.000	92	28388	50.0	45.8	
59 2,4-Dimethylphenol	107	7.098	7.098	0.000	98	56267	50.0	47.9	
62 Bis(2-chloroethoxy)methane	93	7.200	7.194	0.006	99	54633	50.0	45.5	
64 Benzoic acid	105	7.269	7.275	-0.006	82	71952	100.0	91.6	
65 2,4-Dichlorophenol	162	7.323	7.328	-0.005	99	43223	50.0	48.1	
67 1,2,4-Trichlorobenzene	180	7.403	7.397	0.006	98	47314	50.0	44.8	
69 Naphthalene	128	7.494	7.488	0.006	99	144970	50.0	45.1	
71 4-Chloroaniline	127	7.574	7.574	0.000	99	52335	50.0	38.2	
73 Hexachlorobutadiene	225	7.649	7.643	0.005	96	28118	50.0	44.6	
78 Caprolactam	113	8.017	7.964	0.053	96	33523	100.0	204.9	E
79 4-Chloro-3-methylphenol	107	8.188	8.183	0.005	97	51085	50.0	50.8	
82 2-Methylnaphthalene	142	8.316	8.311	0.005	98	100870	50.0	46.3	
83 1-Methylnaphthalene	142	8.434	8.429	0.005	98	93738	50.0	46.0	
84 Hexachlorocyclopentadiene	237	8.503	8.498	0.005	96	20550	50.0	35.6	
85 1,2,4,5-Tetrachlorobenzene	216	8.519	8.514	0.005	98	45070	50.0	45.8	
86 2,4,6-Trichlorophenol	196	8.669	8.669	0.000	98	32644	50.0	49.0	
87 2,4,5-Trichlorophenol	196	8.728	8.728	0.000	98	35529	50.0	51.9	
90 1,1'-Biphenyl	154	8.872	8.867	0.005	99	124717	50.0	47.9	
91 2-Chloronaphthalene	162	8.893	8.888	0.005	98	94306	50.0	46.9	
93 2-Nitroaniline	65	9.027	9.022	0.005	98	35941	50.0	52.8	
96 Dimethyl phthalate	163	9.257	9.246	0.011	100	120980	50.0	49.5	
97 1,3-Dinitrobenzene	168	9.294	9.289	0.005	93	20337	50.0	50.9	
99 2,6-Dinitrotoluene	165	9.321	9.315	0.006	82	28026	50.0	50.1	
100 Acenaphthylene	152	9.374	9.369	0.005	100	155447	50.0	48.4	
101 3-Nitroaniline	138	9.524	9.524	0.000	97	28965	50.0	46.0	
102 Acenaphthene	153	9.582	9.577	0.005	98	100279	50.0	48.4	
103 2,4-Dinitrophenol	184	9.652	9.652	0.000	97	32815	100.0	88.2	
104 4-Nitrophenol	109	9.769	9.769	0.000	93	43862	100.0	95.1	
107 Dibenzofuran	168	9.785	9.780	0.005	98	143224	50.0	49.5	
106 2,4-Dinitrotoluene	165	9.796	9.791	0.005	91	39789	50.0	51.1	
110 2,3,4,6-Tetrachlorophenol	232	9.946	9.946	0.000	98	27074	50.0	50.7	
112 Diethyl phthalate	149	10.079	10.069	0.010	100	132961	50.0	51.0	
138 Hexadecane	57	10.101	10.095	0.006	89	90149	50.0	50.8	
115 Fluorene	166	10.175	10.170	0.005	98	109008	50.0	47.8	
116 4-Chlorophenyl phenyl ethe	204	10.186	10.181	0.005	91	54573	50.0	46.9	
118 4-Nitroaniline	138	10.223	10.224	-0.001	91	28808	50.0	47.4	
119 4,6-Dinitro-2-methylphenol	198	10.261	10.256	0.005	93	47935	100.0	99.4	
120 N-Nitrosodiphenylamine	169	10.325	10.314	0.011	98	168352	100.0	100.2	
121 Diphenylamine	169	10.325	10.325	0.000	98	168352	85.5	79.6	
123 1,2-Diphenylhydrazine	77	10.357	10.352	0.005	96	122671	50.0	49.8	
122 Azobenzene	77	10.357	10.352	0.005	95	122671	50.0	49.9	
130 4-Bromophenyl phenyl ether	248	10.710	10.704	0.006	90	33888	50.0	50.6	
131 Hexachlorobenzene	284	10.768	10.763	0.005	98	38278	50.0	49.2	
133 Atrazine	200	10.907	10.897	0.010	96	74137	100.0	104.7	
134 Pentachlorophenol	266	10.982	10.987	-0.005	97	37299	100.0	81.4	
113 n-Octadecane	57	11.078	11.073	0.005	85	96735	50.0	52.0	
141 Phenanthrene	178	11.185	11.180	0.005	99	178122	50.0	50.4	
142 Anthracene	178	11.233	11.233	0.000	99	183912	50.0	50.4	
143 Carbazole	167	11.404	11.404	0.000	100	164582	50.0	51.6	
145 Di-n-butyl phthalate	149	11.741	11.741	0.000	100	227593	50.0	52.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
152 Fluoranthene	202	12.307	12.307	0.000	98	196299	50.0	51.3	
154 Benzidine	184	12.435	12.435	0.000	100	103026	100.0	50.5	
155 Pyrene	202	12.510	12.510	0.000	98	204235	50.0	52.4	
162 Butyl benzyl phthalate	149	13.076	13.071	0.005	99	108988	50.0	52.3	
166 3,3'-Dichlorobenzidine	252	13.536	13.536	0.000	85	132109	100.0	87.2	
167 Benzo[a]anthracene	228	13.562	13.557	0.005	96	198161	50.0	51.2	
172 Bis(2-ethylhexyl) phthalat	149	13.562	13.562	0.000	94	158463	50.0	52.4	
169 Chrysene	228	13.594	13.589	0.005	99	185143	50.0	51.5	
168 Di-n-octyl phthalate	149	14.097	14.097	0.000	99	268133	50.0	52.4	
174 Benzo[b]fluoranthene	252	14.465	14.460	0.005	98	209569	50.0	54.4	
175 Benzo[k]fluoranthene	252	14.487	14.481	0.006	98	211164	50.0	52.8	
177 Benzo[a]pyrene	252	14.754	14.748	0.006	99	194556	50.0	53.6	
180 Indeno[1,2,3-cd]pyrene	276	15.854	15.849	0.005	90	217789	50.0	52.4	
181 Dibenz(a,h)anthracene	278	15.860	15.854	0.006	86	183645	50.0	52.9	
182 Benzo[g,h,i]perylene	276	16.159	16.153	0.006	98	184280	50.0	54.0	
S 238 3-Methylphenol	1				0		25.0	47.1	

QC Flag Legend

Processing Flags

E - Exceeded Maximum Amount

Reagents:

MB_INTSTD_STK_00009 Amount Added: 20.00 Units: uL Run Reagent

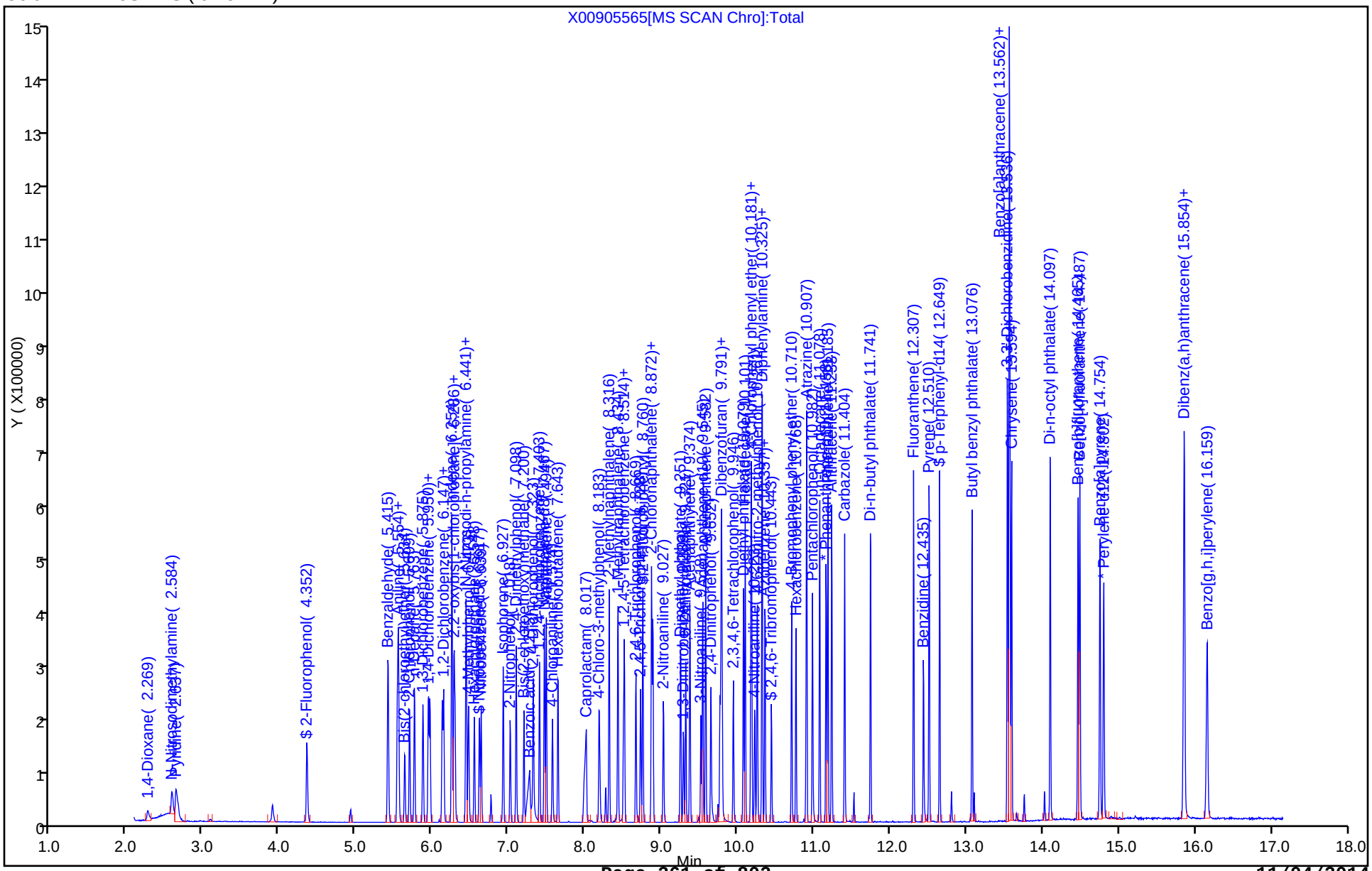
Report Date: 30-Oct-2014 14:20:45 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973X\20141029-36818.b\X00905565.D

Injection Date:	29-Oct-2014 10:41:30	Instrument ID:	HP5973X	Operator ID:	LMW
Lims ID:	LCS 480-210189/2-A			Worklist Smp#:	8
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	X-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-70101-1

SDG No.:

Instrument ID: HP5973X Start Date: 10/16/2014 08:00

Analysis Batch Number: 208059 End Date: 10/16/2014 18:53

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 480-208059/2		10/16/2014 08:00	1	X00906829.D	RXI-5Sil MS 0.25(mm)
IC 480-208059/3		10/16/2014 08:43	1	X00906830.D	RXI-5Sil MS 0.25(mm)
ICIS 480-208059/4		10/16/2014 09:06	1	X00906831.D	RXI-5Sil MS 0.25(mm)
IC 480-208059/5		10/16/2014 09:30	1	X00906832.D	RXI-5Sil MS 0.25(mm)
CCVIS 480-208059/25		10/16/2014 09:30	1		RXI-5Sil MS 0.25(mm)
IC 480-208059/6		10/16/2014 09:54	1	X00906833.D	RXI-5Sil MS 0.25(mm)
IC 480-208059/7		10/16/2014 10:19	1	X00906834.D	RXI-5Sil MS 0.25(mm)
IC 480-208059/8		10/16/2014 10:43	1	X00906835.D	RXI-5Sil MS 0.25(mm)
ICV 480-208059/9		10/16/2014 11:07	1		RXI-5Sil MS 0.25(mm)
ZZZZZ		10/16/2014 15:40	1		RXI-5Sil MS 0.25(mm)
ZZZZZ		10/16/2014 16:04	1		RXI-5Sil MS 0.25(mm)
ZZZZZ		10/16/2014 16:28	1		RXI-5Sil MS 0.25(mm)
ZZZZZ		10/16/2014 16:52	1		RXI-5Sil MS 0.25(mm)
ZZZZZ		10/16/2014 17:17	1		RXI-5Sil MS 0.25(mm)
ZZZZZ		10/16/2014 17:41	1		RXI-5Sil MS 0.25(mm)
ZZZZZ		10/16/2014 18:05	10		RXI-5Sil MS 0.25(mm)
ZZZZZ		10/16/2014 18:53	50		RXI-5Sil MS 0.25(mm)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-70101-1

SDG No.:

Instrument ID: HP5973X Start Date: 10/29/2014 08:04

Analysis Batch Number: 210655 End Date: 10/29/2014 19:55

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 480-210655/2		10/29/2014 08:04	1	X00905559.D	RXI-5Sil MS 0.25(mm)
CCVIS 480-210655/3		10/29/2014 08:36	1	X00905560.D	RXI-5Sil MS 0.25(mm)
CCVL 480-210655/4		10/29/2014 09:00	1		RXI-5Sil MS 0.25(mm)
ZZZZZ		10/29/2014 09:29	1000		RXI-5Sil MS 0.25(mm)
ZZZZZ		10/29/2014 09:53	50		RXI-5Sil MS 0.25(mm)
ZZZZZ		10/29/2014 10:17	1		RXI-5Sil MS 0.25(mm)
LCS 480-210189/2-A		10/29/2014 10:41	1	X00905565.D	RXI-5Sil MS 0.25(mm)
ZZZZZ		10/29/2014 11:06	20		RXI-5Sil MS 0.25(mm)
ZZZZZ		10/29/2014 11:30	20		RXI-5Sil MS 0.25(mm)
ZZZZZ		10/29/2014 11:55	50		RXI-5Sil MS 0.25(mm)
ZZZZZ		10/29/2014 12:19	50		RXI-5Sil MS 0.25(mm)
ZZZZZ		10/29/2014 12:44	20		RXI-5Sil MS 0.25(mm)
ZZZZZ		10/29/2014 13:08	20		RXI-5Sil MS 0.25(mm)
ZZZZZ		10/29/2014 13:32	50		RXI-5Sil MS 0.25(mm)
ZZZZZ		10/29/2014 13:57	20		RXI-5Sil MS 0.25(mm)
ZZZZZ		10/29/2014 14:21	10		RXI-5Sil MS 0.25(mm)
ZZZZZ		10/29/2014 14:45	20		RXI-5Sil MS 0.25(mm)
ZZZZZ		10/29/2014 15:09	20		RXI-5Sil MS 0.25(mm)
ZZZZZ		10/29/2014 15:33	20		RXI-5Sil MS 0.25(mm)
480-70101-1	AS-CONC-PIERS	10/29/2014 15:57	1	X00905578.D	RXI-5Sil MS 0.25(mm)
480-70101-2	AS-CONC-OUTLET	10/29/2014 16:20	1	X00905579.D	RXI-5Sil MS 0.25(mm)
ZZZZZ		10/29/2014 16:44	1		RXI-5Sil MS 0.25(mm)
ZZZZZ		10/29/2014 17:08	1		RXI-5Sil MS 0.25(mm)
ZZZZZ		10/29/2014 17:32	1		RXI-5Sil MS 0.25(mm)
ZZZZZ		10/29/2014 17:56	1		RXI-5Sil MS 0.25(mm)
ZZZZZ		10/29/2014 18:20	20		RXI-5Sil MS 0.25(mm)
ZZZZZ		10/29/2014 18:44	20		RXI-5Sil MS 0.25(mm)
ZZZZZ		10/29/2014 19:08	50		RXI-5Sil MS 0.25(mm)
ZZZZZ		10/29/2014 19:31	20		RXI-5Sil MS 0.25(mm)
ZZZZZ		10/29/2014 19:55	200		RXI-5Sil MS 0.25(mm)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-70101-1

SDG No.:

Instrument ID: HP5973X Start Date: 10/30/2014 08:18

Analysis Batch Number: 210927 End Date: 10/30/2014 17:22

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 480-210927/2		10/30/2014 08:18	1	X00905591.D	RXI-5Sil MS 0.25(mm)
CCVIS 480-210927/3		10/30/2014 08:51	1	X00905592.D	RXI-5Sil MS 0.25(mm)
CCVL 480-210927/4		10/30/2014 09:15	1		RXI-5Sil MS 0.25(mm)
ZZZZZ		10/30/2014 09:46	10		RXI-5Sil MS 0.25(mm)
MB 480-210189/1-A		10/30/2014 10:09	1	X00905595.D	RXI-5Sil MS 0.25(mm)
ZZZZZ		10/30/2014 10:33	50		RXI-5Sil MS 0.25(mm)
ZZZZZ		10/30/2014 10:57	1		RXI-5Sil MS 0.25(mm)
ZZZZZ		10/30/2014 11:21	1		RXI-5Sil MS 0.25(mm)
ZZZZZ		10/30/2014 11:45	50		RXI-5Sil MS 0.25(mm)
ZZZZZ		10/30/2014 12:09	50		RXI-5Sil MS 0.25(mm)
ZZZZZ		10/30/2014 12:33	50		RXI-5Sil MS 0.25(mm)
ZZZZZ		10/30/2014 12:57	1		RXI-5Sil MS 0.25(mm)
ZZZZZ		10/30/2014 13:21	5		RXI-5Sil MS 0.25(mm)
ZZZZZ		10/30/2014 13:44	10		RXI-5Sil MS 0.25(mm)
ZZZZZ		10/30/2014 14:08	1		RXI-5Sil MS 0.25(mm)
ZZZZZ		10/30/2014 14:32	1		RXI-5Sil MS 0.25(mm)
ZZZZZ		10/30/2014 14:56	1		RXI-5Sil MS 0.25(mm)
ZZZZZ		10/30/2014 15:20	1		RXI-5Sil MS 0.25(mm)
ZZZZZ		10/30/2014 15:44	1		RXI-5Sil MS 0.25(mm)
ZZZZZ		10/30/2014 16:09	1		RXI-5Sil MS 0.25(mm)
ZZZZZ		10/30/2014 16:33	1		RXI-5Sil MS 0.25(mm)
ZZZZZ		10/30/2014 16:58	1		RXI-5Sil MS 0.25(mm)
ZZZZZ		10/30/2014 17:22	1		RXI-5Sil MS 0.25(mm)

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-70101-1

SDG No.:

Batch Number: 210189 Batch Start Date: 10/27/14 08:43 Batch Analyst: Myers, Carmela A

Batch Method: 3550C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	CalcMsg	InitialAmount	FinalAmount	O_8270/625LCS 00018	O_8270surr 00019	AnalysisComment
MB 480-210189/1		3550C, 8270D		CALC NOT SET TO RUN	+30.61 g	1 mL		1 mL	
LCS 480-210189/2		3550C, 8270D		CALC NOT SET TO RUN	+30.58 g	1 mL	1 mL	1 mL	
480-70101-B-1	AS-CONC-PIERS	3550C, 8270D	T	CALC NOT SET TO RUN	+30.23 g	1 mL		1 mL	Rocks
480-70101-B-2	AS-CONC-OUTLET	3550C, 8270D	T	CALC NOT SET TO RUN	+30.46 g	1 mL		1 mL	Rocks

Batch Notes	
Balance ID	40029
Blank Soil Lot Number	27864006
Person's name who did the concentration	CM GF
Na2SO4 Lot Number	27864006
Nominal Amount Used	30 g
Prep Solvent Lot #	0000083055: 0000088388
Prep Solvent Name	1:1 MeCl2:Acetone
Prep Solvent Volume Used	300 mL
Person's name who did the prep	CM
Person's name who witnessed reagent drop	CM
Analyst who added reagent	CM
Perform Calculation (0=No, 1=Yes)	0

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.

Method 8082A

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

FORM II
PCBS SURROGATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-70101-1

SDG No.:

Matrix: Solid Level: Low

GC Column (1): ZB-5 ID: 0.25 (mm) GC Column (2): ZB-35 ID: 0.53 (mm)

Client Sample ID	Lab Sample ID	TCX1 #	TCX2 #	DCB1 #	DCB2 #
AS-CONC-PIERS	480-70101-1	106	105	133	111
AS-CONC-OUTLET	480-70101-2	107	107	134	111
	MB 480-210224/1-A	99	96	122	107
	LCS 480-210224/2-A	129	120	148	119

	QC LIMITS
TCX = Tetrachloro-m-xylene	46-175
DCB = DCB Decachlorobiphenyl	47-176

Column to be used to flag recovery values

FORM II 8082A

FORM III
PCBS LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-70101-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: 12_312_165.D

Lab ID: LCS 480-210224/2-A Client ID:

COMPOUND	SPIKE ADDED (mg/Kg)	LCS CONCENTRATION (mg/Kg)	LCS % REC	QC LIMITS REC	#
PCB-1016	1.85	2.30	125	51-185	
PCB-1260	1.85	2.37	128	61-184	

Column to be used to flag recovery and RPD values

FORM III 8082A

FORM IV
PCBS METHOD BLANK SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-70101-1

SDG No.:

Lab Sample ID: MB 480-210224/1-A

Matrix: Solid Date Extracted: 10/27/2014 10:26

Lab File ID:(1) 12_312_164.D Lab File ID:(2) 12_312_164.D

Date Analyzed:(1) 10/28/2014 09:22 Date Analyzed:(2) 10/28/2014 09:22

Instrument ID:(1) HP5890-12 Instrument ID:(2) HP5890-12

GC Column:(1) ZB-5 ID: 0.25(mm) GC Column:(2) ZB-35 ID: 0.53(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
	LCS 480-210224/2-A	10/28/2014 09:37	10/28/2014 09:37
AS-CONC-PIERS	480-70101-1	10/28/2014 11:07	10/28/2014 11:07
AS-CONC-OUTLET	480-70101-2	10/28/2014 11:22	10/28/2014 11:22

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-70101-1

SDG No.:

Client Sample ID: AS-CONC-PIERS Lab Sample ID: 480-70101-1

Instrument ID (1): HP5890-12 Instrument ID (2): HP5890-12

Date Analyzed (1): 10/28/2014 11:07 Date Analyzed (2): 10/28/2014 11:07

GC Column (1): ZB-5 ID: 0.25(mm) GC Column (2): ZB-35 ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
PCB-1248	1	1	3.17	3.13	3.19	0.0660	0.075	29.4
		3	3.43	3.39	3.45	0.0653		
		4	3.67	3.63	3.69	0.0951		
	2	1	2.83	2.79	2.85	0.0508	0.056	
		2	3.03	2.98	3.04	0.0559		
		3	3.11	3.08	3.14	0.0554		
		4	3.25	3.21	3.27	0.0624		

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-70101-1

SDG No.:

Client Sample ID: AS-CONC-OUTLET Lab Sample ID: 480-70101-2

Instrument ID (1): HP5890-12 Instrument ID (2): HP5890-12

Date Analyzed (1): 10/28/2014 11:22 Date Analyzed (2): 10/28/2014 11:22

GC Column (1): ZB-5 ID: 0.25(mm) GC Column (2): ZB-35 ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
PCB-1248	1	1	3.17	3.13	3.19	0.0546	0.087	12.2
		3	3.43	3.39	3.45	0.0931		
		4	3.67	3.63	3.69	0.114		
	2	2	3.04	2.98	3.04	0.0578	0.077	
		3	3.11	3.08	3.14	0.0643		
		4	3.25	3.21	3.27	0.109		

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-70101-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 480-210224/2-A

Instrument ID (1): HP5890-12 Instrument ID (2): HP5890-12

Date Analyzed (1): 10/28/2014 09:37 Date Analyzed (2): 10/28/2014 09:37

GC Column (1): ZB-5 ID: 0.25(mm) GC Column (2): ZB-35 ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
PCB-1016	1	1	2.56	2.53	2.59	2.35	2.33	1.0
		2	2.71	2.68	2.74	2.25		
		3	2.91	2.87	2.93	2.34		
		4	2.99	2.96	3.02	2.37		
	2	1	2.45	2.42	2.48	2.26	2.30	
		2	2.55	2.52	2.58	2.37		
		3	2.66	2.63	2.69	2.30		
		4	3.02	2.99	3.05	2.29		
PCB-1260	1	1	4.51	4.47	4.53	2.32	2.56	7.6
		2	4.73	4.70	4.76	2.19		
		3	4.86	4.82	4.88	3.04		
		4	5.24	5.21	5.27	2.67		
	2	1	4.34	4.31	4.37	1.98	2.37	
		2	4.64	4.61	4.67	2.57		
		3	4.71	4.68	4.74	2.45		
		4	4.78	4.75	4.81	2.47		

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-70101-1

SDG No.:

Client Sample ID: AS-CONC-PIERS Lab Sample ID: 480-70101-1

Matrix: Solid Lab File ID: 12_312_171.D

Analysis Method: 8082A Date Collected: 10/23/2014 14:00

Extraction Method: 3550C Date Extracted: 10/27/2014 10:26

Sample wt/vol: +2.48(g) Date Analyzed: 10/28/2014 11:07

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-5 ID: 0.25(mm)

% Moisture: 6.0 GPC Cleanup:(Y/N) N

Analysis Batch No.: 210455 Units: mg/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	133		47-176
877-09-8	Tetrachloro-m-xylene	106		46-175

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5890-12\20141028-36794.b\12_312_171.D
Lims ID: 480-70101-B-1-B Lab Sample ID: 480-70101-1
Client ID: AS-CONC-PIERS
Sample Type: Client
Inject. Date: 28-Oct-2014 11:07:20 ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: buftchrom Instrument ID: HP5890-12

Method: \\Bufchrom\ChromData\HP5890-12\20141028-36794.b\hp12_pcb.m
Limit Group: GC - 8082A PCB ICAL
Last Update: 28-Oct-2014 14:08:27 Calib Date: 03-Oct-2014 08:06:59
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5890-12\20141002-35967.b\12_309_108.D

Column 1 : ZB-5 (0.25 mm) Det: Ch-A-7A136
Column 2 : ZB-35 (0.53 mm) Det: Ch-B-7b136
Process Host: XAWRK021

First Level Reviewer: eversd Date: 28-Oct-2014 14:08:27

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
$ 3 Tetrachloro-m-xylene						
1	1.984	1.983	0.001	55853	0.0211	
2	1.560	1.561	-0.001	42603	0.0210	
					RPD = 0.68	
7 PCB-1248						
1	3.169	3.156	0.013	1180	0.0154	
1	0.000	3.328	-3.328	0	0	
1	3.431	3.423	0.008	1430	0.0152	
1	3.668	3.657	0.011	3317	0.0222	
		Average of Peak Amounts =			0.0176	
2	2.831	2.817	0.014	1622	0.0118	
2	3.027	3.010	0.017	1374	0.0130	
2	3.113	3.105	0.008	1178	0.0129	
2	3.252	3.242	0.010	1949	0.0146	
		Average of Peak Amounts =			0.0131	
					RPD = 29.38	
$ 12 DCB Decachlorobiphenyl						
1	6.735	6.734	0.001	63892	0.0265	
2	6.046	6.045	0.001	65983	0.0223	
					RPD = 17.47	

Reagents:

COPPER_00049 Amount Added: 1.00 Units: mL Run Reagent

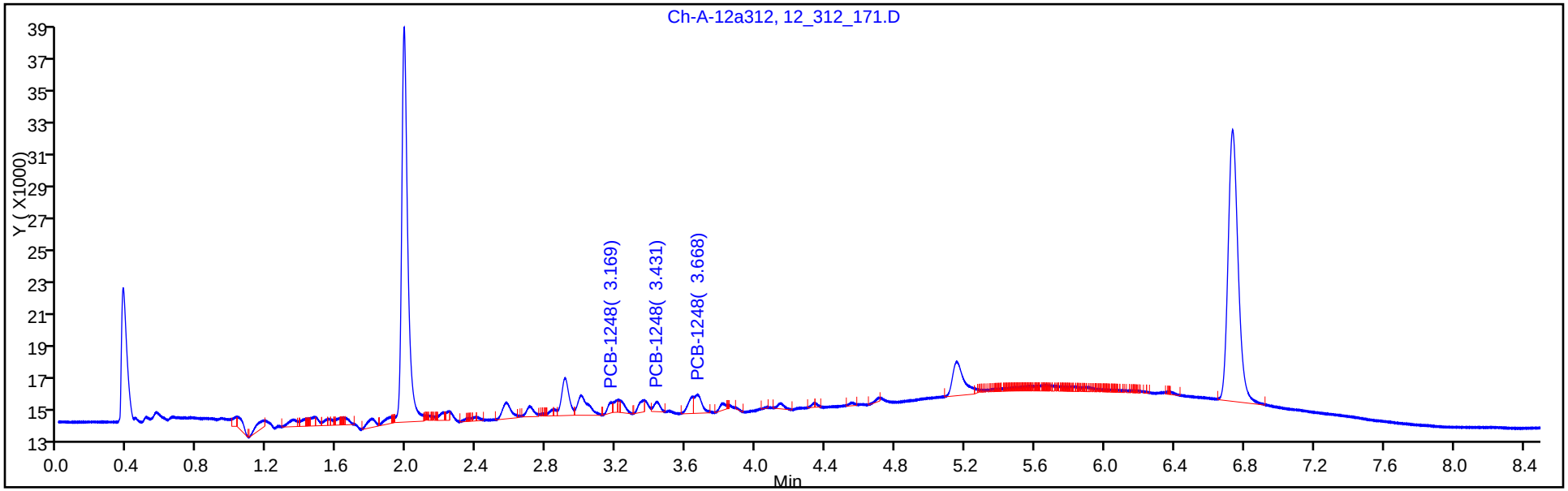
Report Date: 28-Oct-2014 14:08:27 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Buffalo

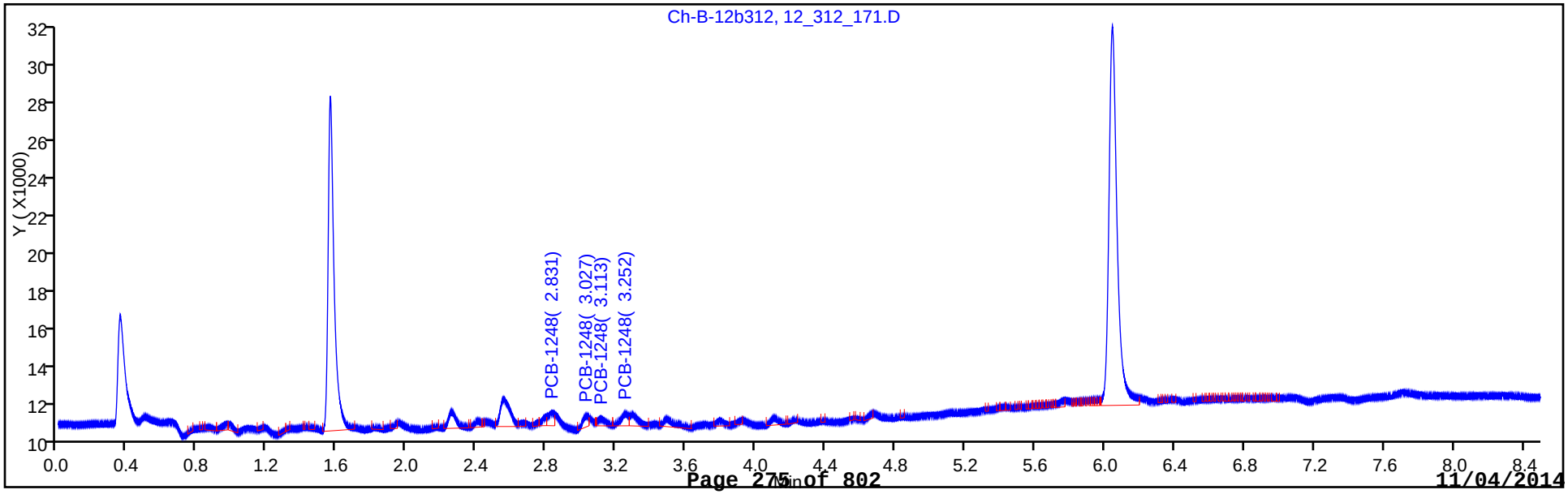
Data File: \\Bufchrom\ChromData\HP5890-12\20141028-36794.b\12_312_171.D

Injection Date:	28-Oct-2014 11:07:20	Instrument ID:	HP5890-12	Operator ID:	buftchrom
Lims ID:	480-70101-B-1-B	Lab Sample ID:	480-70101-1	Worklist Smp#:	10
Client ID:	AS-CONC-PIERS				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	hp12_pcb	Limit Group:	GC - 8082A PCB ICAL		

Column: ZB-5 (0.25 mm)



Column: ZB-35 (0.53 mm)



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-70101-1

SDG No.:

Client Sample ID: AS-CONC-PIERS | Lab Sample ID: 480-70101-1

Matrix: Solid | Lab File ID: 12_312_171.D

Analysis Method: 8082A | Date Collected: 10/23/2014 14:00

Extraction Method: 3550C | Date Extracted: 10/27/2014 10:26

Sample wt/vol: +2.48(g) | Date Analyzed: 10/28/2014 11:07

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 6.0 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 210455 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.21	0.042
11104-28-2	PCB-1221	ND		0.21	0.042
11141-16-5	PCB-1232	ND		0.21	0.042
53469-21-9	PCB-1242	ND		0.21	0.042
12672-29-6	PCB-1248	0.056	J	0.21	0.042
11097-69-1	PCB-1254	ND		0.21	0.10
11096-82-5	PCB-1260	ND		0.21	0.10

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	111		47-176
877-09-8	Tetrachloro-m-xylene	105		46-175

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5890-12\20141028-36794.b\12_312_171.D
Lims ID: 480-70101-B-1-B Lab Sample ID: 480-70101-1
Client ID: AS-CONC-PIERS
Sample Type: Client
Inject. Date: 28-Oct-2014 11:07:20 ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: buftchrom Instrument ID: HP5890-12

Method: \\Bufchrom\ChromData\HP5890-12\20141028-36794.b\hp12_pcb.m
Limit Group: GC - 8082A PCB ICAL
Last Update: 28-Oct-2014 14:08:27 Calib Date: 03-Oct-2014 08:06:59
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5890-12\20141002-35967.b\12_309_108.D

Column 1 : ZB-5 (0.25 mm) Det: Ch-A-7A136
Column 2 : ZB-35 (0.53 mm) Det: Ch-B-7b136
Process Host: XAWRK021

First Level Reviewer: eversd Date: 28-Oct-2014 14:08:27

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
$ 3 Tetrachloro-m-xylene						
1	1.984	1.983	0.001	55853	0.0211	
2	1.560	1.561	-0.001	42603	0.0210	
					RPD = 0.68	
7 PCB-1248						
1	3.169	3.156	0.013	1180	0.0154	
1	0.000	3.328	-3.328	0	0	
1	3.431	3.423	0.008	1430	0.0152	
1	3.668	3.657	0.011	3317	0.0222	
		Average of Peak Amounts =			0.0176	
2	2.831	2.817	0.014	1622	0.0118	
2	3.027	3.010	0.017	1374	0.0130	
2	3.113	3.105	0.008	1178	0.0129	
2	3.252	3.242	0.010	1949	0.0146	
		Average of Peak Amounts =			0.0131	
					RPD = 29.38	
$ 12 DCB Decachlorobiphenyl						
1	6.735	6.734	0.001	63892	0.0265	
2	6.046	6.045	0.001	65983	0.0223	
					RPD = 17.47	

Reagents:

COPPER_00049 Amount Added: 1.00 Units: mL Run Reagent

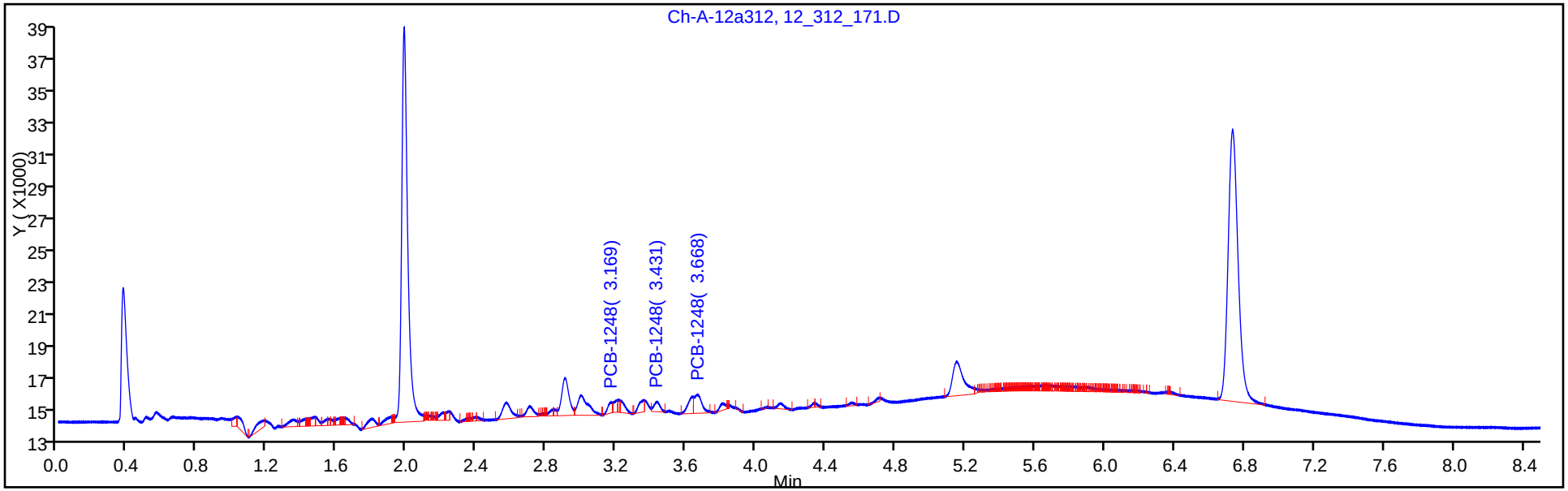
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TestAmerica Buffalo

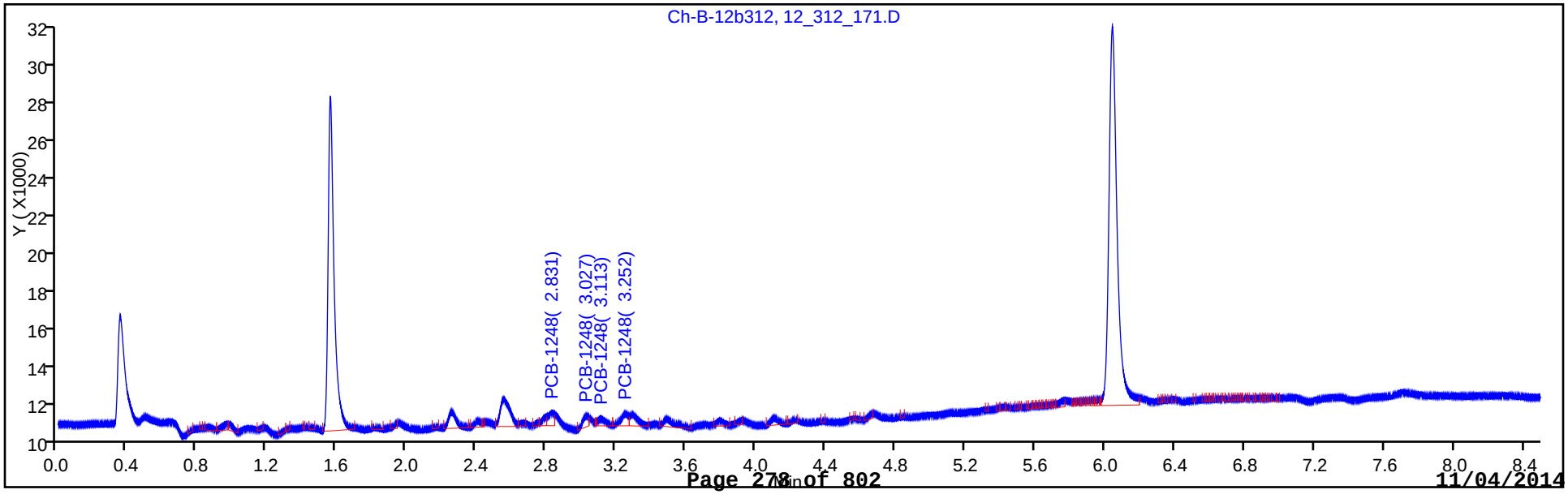
Data File: \\Bufchrom\ChromData\HP5890-12\20141028-36794.b\12_312_171.D

Injection Date:	28-Oct-2014 11:07:20	Instrument ID:	HP5890-12	Operator ID:	buftchrom
Lims ID:	480-70101-B-1-B	Lab Sample ID:	480-70101-1	Worklist Smp#:	10
Client ID:	AS-CONC-PIERS				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	hp12_pcb	Limit Group:	GC - 8082A PCB ICAL		

Column: ZB-5 (0.25 mm)



Column: ZB-35 (0.53 mm)



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-70101-1

SDG No.:

Client Sample ID: AS-CONC-OUTLET Lab Sample ID: 480-70101-2

Matrix: Solid Lab File ID: 12_312_172.D

Analysis Method: 8082A Date Collected: 10/23/2014 14:30

Extraction Method: 3550C Date Extracted: 10/27/2014 10:26

Sample wt/vol: +2.56(g) Date Analyzed: 10/28/2014 11:22

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-5 ID: 0.25(mm)

% Moisture: 2.8 GPC Cleanup:(Y/N) N

Analysis Batch No.: 210455 Units: mg/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	134		47-176
877-09-8	Tetrachloro-m-xylene	107		46-175

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5890-12\20141028-36794.b\12_312_172.D
Lims ID: 480-70101-B-2-B Lab Sample ID: 480-70101-2
Client ID: AS-CONC-OUTLET
Sample Type: Client
Inject. Date: 28-Oct-2014 11:22:14 ALS Bottle#: 0 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: buftchrom Instrument ID: HP5890-12

Method: \\Bufchrom\ChromData\HP5890-12\20141028-36794.b\hp12_pcb.m
Limit Group: GC - 8082A PCB ICAL
Last Update: 28-Oct-2014 14:08:03 Calib Date: 03-Oct-2014 08:06:59
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5890-12\20141002-35967.b\12_309_108.D

Column 1 : ZB-5 (0.25 mm) Det: Ch-A-7A136
Column 2 : ZB-35 (0.53 mm) Det: Ch-B-7b136
Process Host: XAWRK021

First Level Reviewer: eversd Date: 28-Oct-2014 14:08:03

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
$ 3 Tetrachloro-m-xylene						
1	1.985	1.983	0.002	56513	0.0214	
2	1.561	1.561	0.000	43588	0.0215	
					RPD = 0.41	
7 PCB-1248						M
1	3.172	3.156	0.016	1042	0.0136	M
1	0.000	3.328	-3.328	0	0	
1	3.433	3.423	0.010	2176	0.0232	M
1	3.667	3.657	0.010	4228	0.0282	
		Average of Peak Amounts =			0.0217	
2	0.000	2.817	-2.817	0	0	
2	3.035	3.010	0.025	1516	0.0144	
2	3.111	3.105	0.006	1461	0.0160	M
2	3.253	3.242	0.011	3639	0.0272	M
		Average of Peak Amounts =			0.0192	
					RPD = 12.15	
$ 12 DCB Decachlorobiphenyl						
1	6.737	6.734	0.003	64645	0.0268	
2	6.045	6.045	0.000	65911	0.0222	
					RPD = 18.74	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

COPPER_00049 Amount Added: 1.00 Units: mL Run Reagent

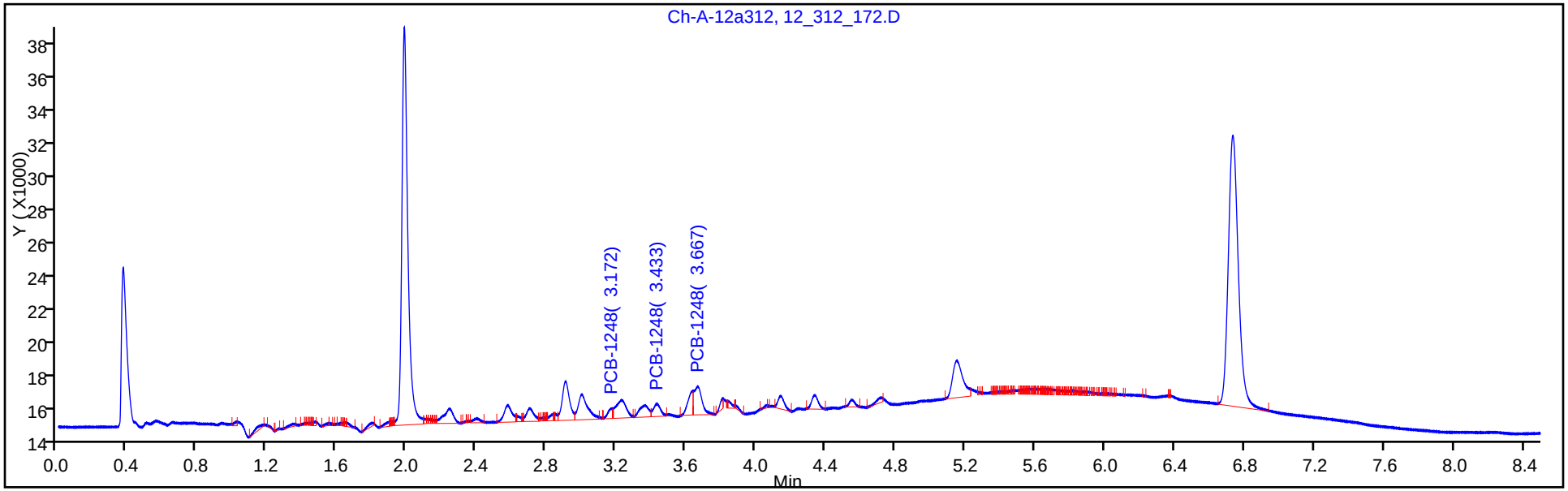
Report Date: 28-Oct-2014 14:08:03 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Buffalo

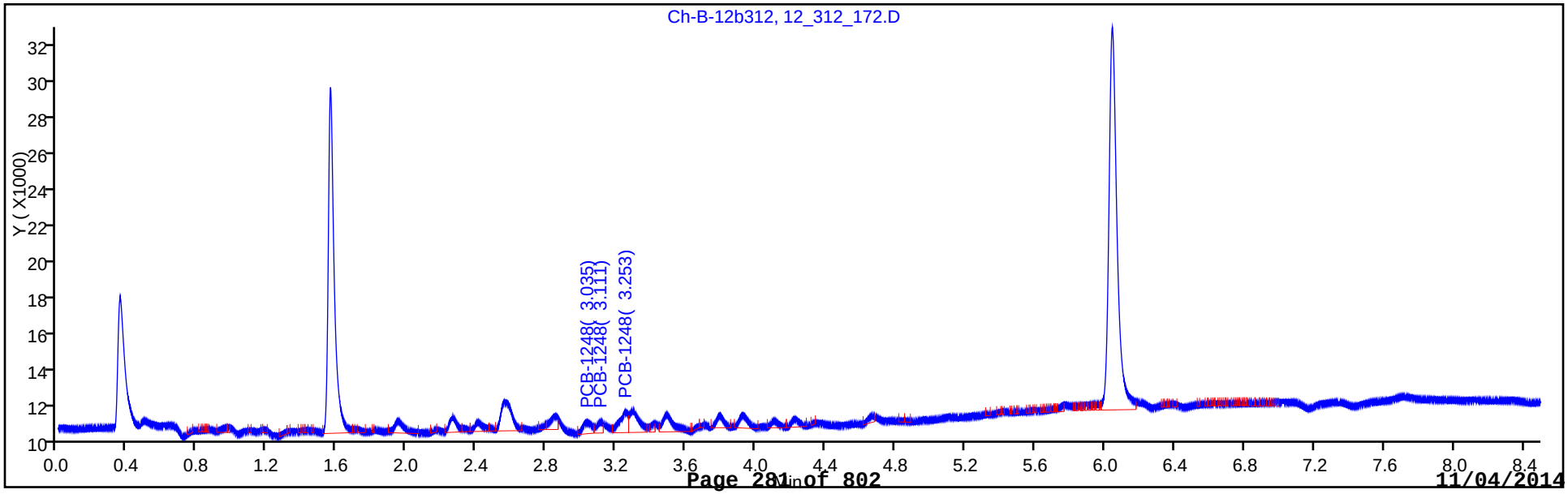
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Injection Date:	28-Oct-2014 11:22:14	Instrument ID:	HP5890-12	Operator ID:	buftchrom
Lims ID:	480-70101-B-2-B	Lab Sample ID:	480-70101-2	Worklist Smp#:	11
Client ID:	AS-CONC-OUTLET				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	hp12_pcb	Limit Group:	GC - 8082A PCB ICAL		

Column: ZB-5 (0.25 mm)



Column: ZB-35 (0.53 mm)



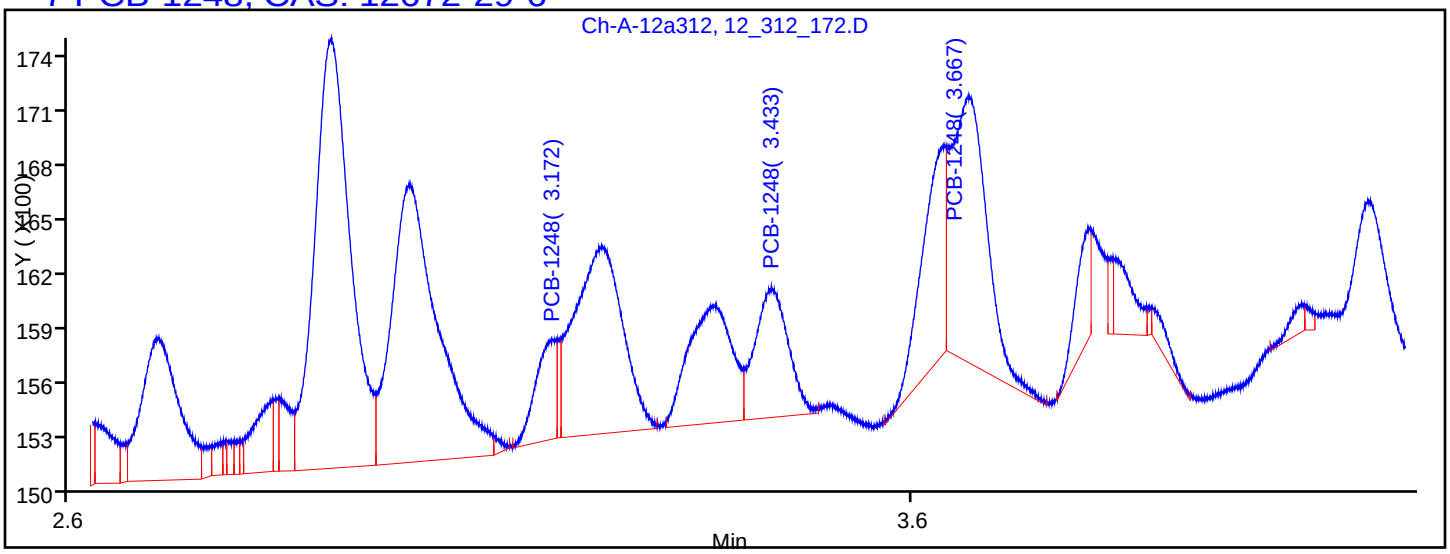
Report Date: 28-Oct-2014 14:08:03 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5890-12\20141028-36794.b\12_312_172.D

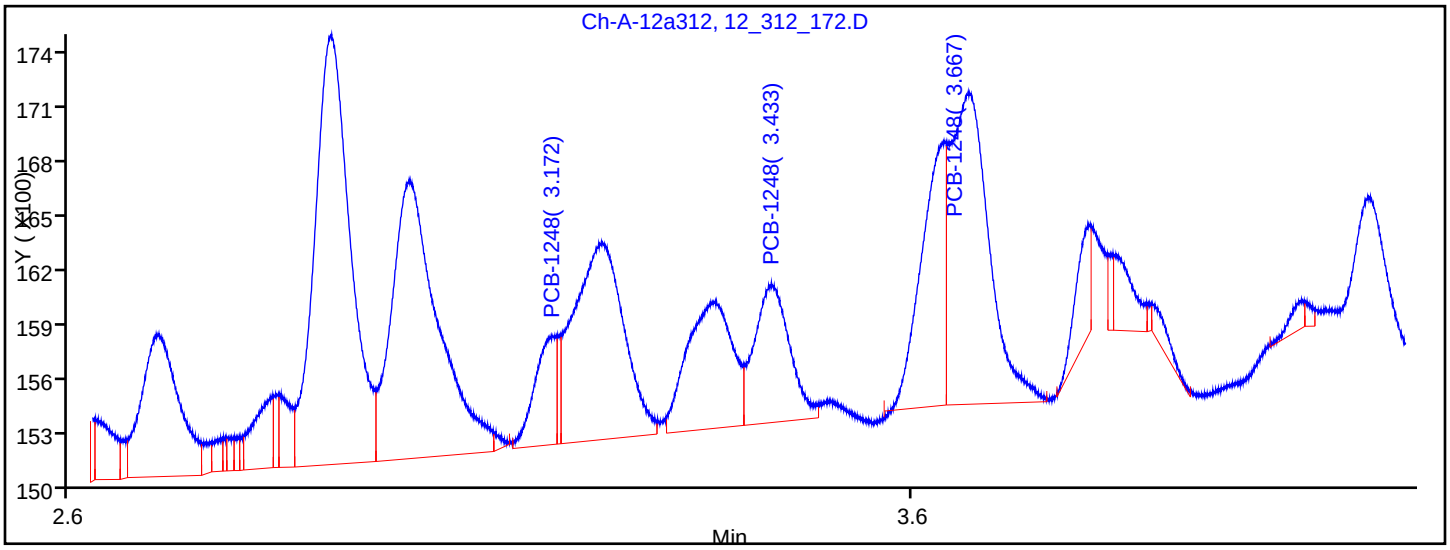
Injection Date:	28-Oct-2014 11:22:14	Instrument ID:	HP5890-12		
Lims ID:	480-70101-B-2-B	Lab Sample ID:	480-70101-2		
Client ID:	AS-CONC-OUTLET				
Operator ID:	buftchrom	ALS Bottle#:	0	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	hp12_pcb	Limit Group:	GC - 8082A PCB ICAL		
Column:	ZB-5 (0.25 mm)	Detector	Ch-A-7A136		

7 PCB-1248, CAS: 12672-29-6



Processing Integration Results

RT = 3.172	Response = 922	M
RT = 0.000	Response = 0	
RT = 3.433	Response = 1923	M
RT = 3.667	Response = 4228	



Manual Integration Results

RT = 3.172	Response = 1042	M
RT = 0.000	Response = 0	
RT = 3.433	Response = 2176	M
RT = 3.667	Response = 4228	

Reviewer: eversd, 28-Oct-2014 14:08:03

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-70101-1

SDG No.:

Client Sample ID: AS-CONC-OUTLET | Lab Sample ID: 480-70101-2

Matrix: Solid | Lab File ID: 12_312_172.D

Analysis Method: 8082A | Date Collected: 10/23/2014 14:30

Extraction Method: 3550C | Date Extracted: 10/27/2014 10:26

Sample wt/vol: +2.56(g) | Date Analyzed: 10/28/2014 11:22

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 2.8 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 210455 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.20	0.039
11104-28-2	PCB-1221	ND		0.20	0.039
11141-16-5	PCB-1232	ND		0.20	0.039
53469-21-9	PCB-1242	ND		0.20	0.039
12672-29-6	PCB-1248	0.077	J	0.20	0.039
11097-69-1	PCB-1254	ND		0.20	0.094
11096-82-5	PCB-1260	ND		0.20	0.094

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	111		47-176
877-09-8	Tetrachloro-m-xylene	107		46-175

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5890-12\20141028-36794.b\12_312_172.D
Lims ID: 480-70101-B-2-B Lab Sample ID: 480-70101-2
Client ID: AS-CONC-OUTLET
Sample Type: Client
Inject. Date: 28-Oct-2014 11:22:14 ALS Bottle#: 0 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: buftchrom Instrument ID: HP5890-12

Method: \\Bufchrom\ChromData\HP5890-12\20141028-36794.b\hp12_pcb.m
Limit Group: GC - 8082A PCB ICAL
Last Update: 28-Oct-2014 14:08:03 Calib Date: 03-Oct-2014 08:06:59
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5890-12\20141002-35967.b\12_309_108.D

Column 1 : ZB-5 (0.25 mm) Det: Ch-A-7A136
Column 2 : ZB-35 (0.53 mm) Det: Ch-B-7b136
Process Host: XAWRK021

First Level Reviewer: eversd Date: 28-Oct-2014 14:08:03

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
$ 3 Tetrachloro-m-xylene						
1	1.985	1.983	0.002	56513	0.0214	
2	1.561	1.561	0.000	43588	0.0215	
					RPD = 0.41	
7 PCB-1248						M
1	3.172	3.156	0.016	1042	0.0136	M
1	0.000	3.328	-3.328	0	0	
1	3.433	3.423	0.010	2176	0.0232	M
1	3.667	3.657	0.010	4228	0.0282	
		Average of Peak Amounts =			0.0217	
2	0.000	2.817	-2.817	0	0	
2	3.035	3.010	0.025	1516	0.0144	
2	3.111	3.105	0.006	1461	0.0160	M
2	3.253	3.242	0.011	3639	0.0272	M
		Average of Peak Amounts =			0.0192	
					RPD = 12.15	
$ 12 DCB Decachlorobiphenyl						
1	6.737	6.734	0.003	64645	0.0268	
2	6.045	6.045	0.000	65911	0.0222	
					RPD = 18.74	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

COPPER_00049 Amount Added: 1.00 Units: mL Run Reagent

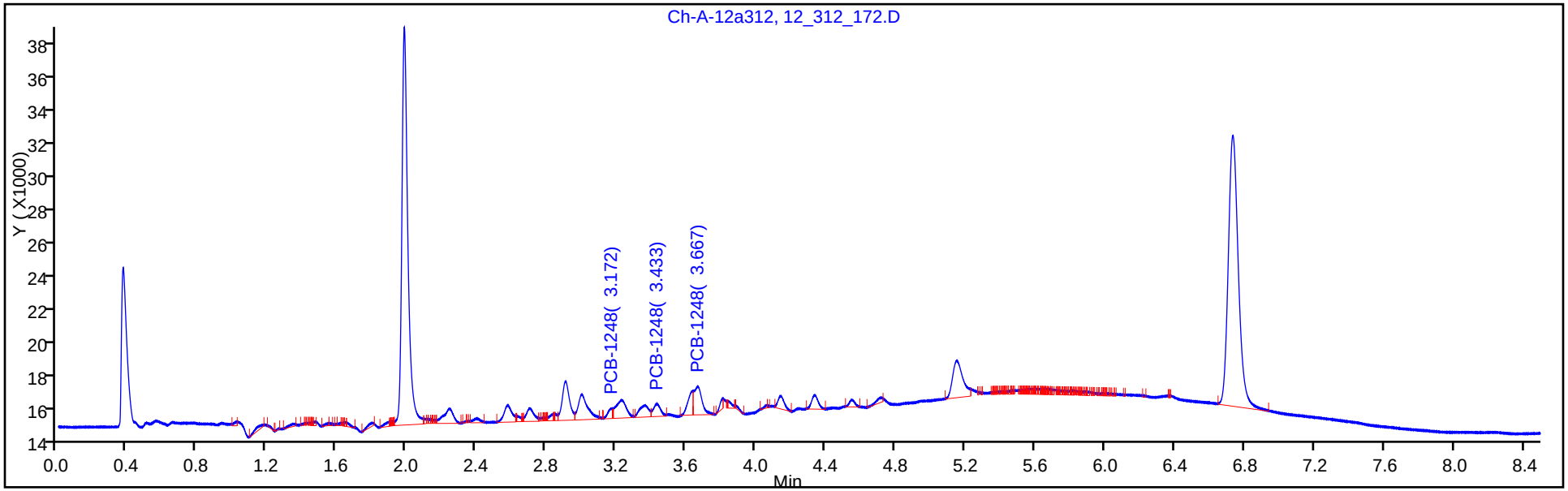
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TestAmerica Buffalo

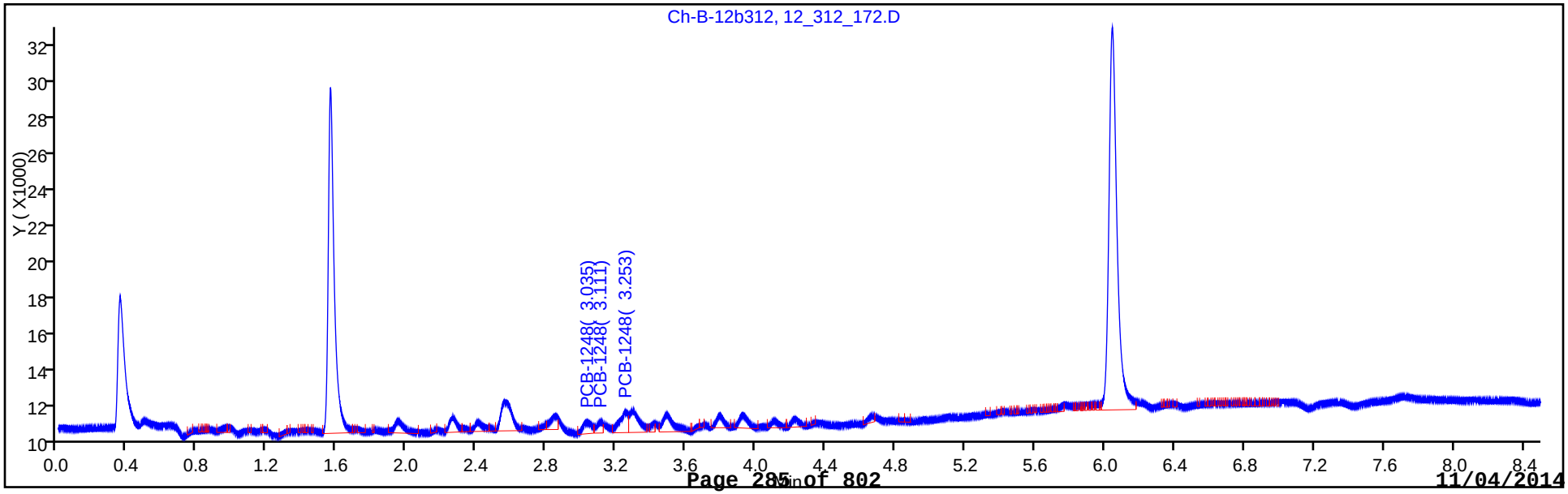
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Injection Date:	28-Oct-2014 11:22:14	Instrument ID:	HP5890-12	Operator ID:	buftchrom
Lims ID:	480-70101-B-2-B	Lab Sample ID:	480-70101-2	Worklist Smp#:	11
Client ID:	AS-CONC-OUTLET				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	hp12_pcb	Limit Group:	GC - 8082A PCB ICAL		

Column: ZB-5 (0.25 mm)



Column: ZB-35 (0.53 mm)



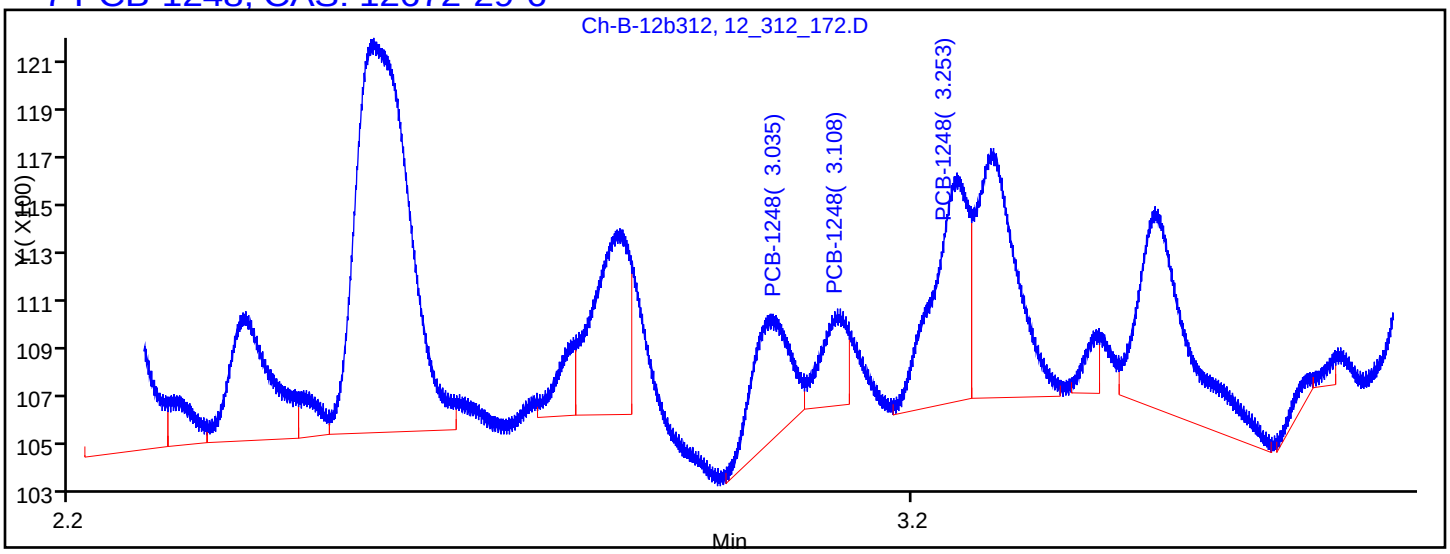
Report Date: 28-Oct-2014 14:08:04 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5890-12\20141028-36794.b\12_312_172.D

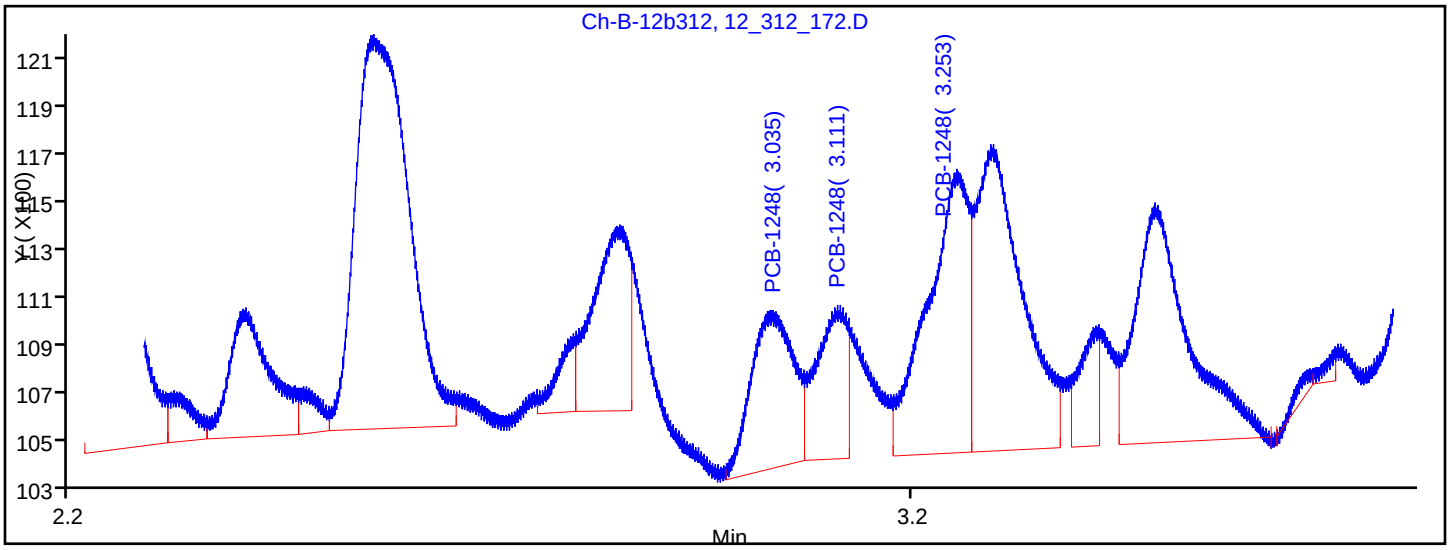
Injection Date:	28-Oct-2014 11:22:14	Instrument ID:	HP5890-12		
Lims ID:	480-70101-B-2-B	Lab Sample ID:	480-70101-2		
Client ID:	AS-CONC-OUTLET				
Operator ID:	buftchrom	ALS Bottle#:	0	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	hp12_pcb	Limit Group:	GC - 8082A PCB ICAL		
Column:	ZB-35 (0.53 mm)	Detector	Ch-B-7b136		

7 PCB-1248, CAS: 12672-29-6



Processing Integration Results

RT = 2.797	Response = 422	
RT = 3.035	Response = 1516	
RT = 3.108	Response = 765	M
RT = 3.253	Response = 2533	M



Manual Integration Results

RT = 0.000	Response = 0	
RT = 3.035	Response = 1516	
RT = 3.111	Response = 1461	M
RT = 3.253	Response = 3639	M

Reviewer: eversd, 28-Oct-2014 14:08:03

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-70101-1 Analy Batch No.: 205708

SDG No.:

Instrument ID: HP5890-12 GC Column: ZB-5 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/02/2014 17:33 Calibration End Date: 10/02/2014 19:02 Calibration ID: 20499

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 480-205708/7	12_309_085.D
Level 2	STD2 480-205708/6	12_309_084.D
Level 3	STD3 480-205708/5	12_309_083.D
Level 4	STD4 480-205708/4	12_309_082.D
Level 5	STD5 480-205708/3	12_309_081.D
Level 6	STD6 480-205708/2	12_309_080.D
Level 7	STD7 480-205708/1	12_309_079.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	LVL 7				RT WINDOW	AVG RT
PCB-1016 Peak 1	2.553	2.553	2.552	2.553	2.551	2.549	2.549				2.522 - 2.582	2.551
PCB-1016 Peak 2	2.696	2.695	2.695	2.694	2.694	2.693	2.693				2.665 - 2.725	2.694
PCB-1016 Peak 3	2.894	2.895	2.893	2.893	2.892	2.891	2.891				2.863 - 2.923	2.893
PCB-1016 Peak 4	2.977	2.978	2.977	2.976	2.976	2.975	2.975				2.947 - 3.007	2.976
PCB-1260 Peak 1	4.501	4.501	4.500	4.499	4.499	4.497	4.497				4.470 - 4.530	4.499
PCB-1260 Peak 2	4.724	4.724	4.723	4.722	4.722	4.721	4.721				4.693 - 4.753	4.722
PCB-1260 Peak 3	4.851	4.851	4.851	4.850	4.849	4.848	4.847				4.821 - 4.881	4.850
PCB-1260 Peak 4	5.237	5.237	5.237	5.236	5.235	5.234	5.233				5.207 - 5.267	5.236
Tetrachloro-m-xylene	1.971	1.972	1.971	1.971	1.971	1.971	1.970				1.941 - 2.001	1.971
DCB Decachlorobiphenyl	6.736	6.737	6.736	6.737	6.735	6.734	6.733				6.706 - 6.766	6.735

FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-70101-1 Analy Batch No.: 205708

SDG No.:

Instrument ID: HP5890-12 GC Column: ZB-5 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/02/2014 17:33 Calibration End Date: 10/02/2014 19:02 Calibration ID: 20499

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 480-205708/7	12_309_085.D
Level 2	STD2 480-205708/6	12_309_084.D
Level 3	STD3 480-205708/5	12_309_083.D
Level 4	STD4 480-205708/4	12_309_082.D
Level 5	STD5 480-205708/3	12_309_081.D
Level 6	STD6 480-205708/2	12_309_080.D
Level 7	STD7 480-205708/1	12_309_079.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2 LVL 6	LVL 3 LVL 7	LVL 4		B	M1	M2								
PCB-1016 Peak 1	163000 119996	138200 109536	141090 101662	129425	Ave		128986.929				16.0		20.0			
PCB-1016 Peak 2	100250 71558	85080 66356	74000 62894	70885	Ave		75860.4286				17.0		20.0			
PCB-1016 Peak 3	230450 200130	225660 189860	215340 181557	207050	Ave		207149.571				8.7		20.0			
PCB-1016 Peak 4	104500 84512	97420 78749	90690 74610	87825	Ave		88329.3571				12.0		20.0			
PCB-1260 Peak 1	237700 249662	213040 221105	256870 203035	250870	Ave		233183.071				9.0		20.0			
PCB-1260 Peak 2	219800 233114	215880 210246	229910 196505	232865	Ave		219760.000				6.2		20.0			
PCB-1260 Peak 3	145400 161980	151440 142877	156770 130532	161385	Ave		150054.857				7.6		20.0			
PCB-1260 Peak 4	271500 229442	286080 206677	233450 191354	226920	Ave		235060.429				14.0		20.0			
Tetrachloro-m-xylene	4908000 2651600	3552800 2600000	2902800 2631240	2827000	Lin	873.520123	2603404.23							1.0000		0.9900
DCB Decachlorobiphenyl	2402000 2347840	2683200 2195760	2628400 2043920	2570200	Ave		2410188.57				9.8		20.0			

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

FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-70101-1 Analy Batch No.: 205708

SDG No.:

Instrument ID: HP5890-12 GC Column: ZB-5 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/02/2014 17:33 Calibration End Date: 10/02/2014 19:02 Calibration ID: 20499

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 480-205708/7	12_309_085.D
Level 2	STD2 480-205708/6	12_309_084.D
Level 3	STD3 480-205708/5	12_309_083.D
Level 4	STD4 480-205708/4	12_309_082.D
Level 5	STD5 480-205708/3	12_309_081.D
Level 6	STD6 480-205708/2	12_309_080.D
Level 7	STD7 480-205708/1	12_309_079.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
		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
PCB-1016 Peak 1	Ave	3260 109536	6910 203323	14109	25885	59998	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1016 Peak 2	Ave	2005 66356	4254 125788	7400	14177	35779	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1016 Peak 3	Ave	4609 189860	11283 363114	21534	41410	100065	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1016 Peak 4	Ave	2090 78749	4871 149219	9069	17565	42256	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1260 Peak 1	Ave	4754 221105	10652 406069	25687	50174	124831	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1260 Peak 2	Ave	4396 210246	10794 393010	22991	46573	116557	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1260 Peak 3	Ave	2908 142877	7572 261064	15677	32277	80990	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1260 Peak 4	Ave	5430 206677	14304 382708	23345	45384	114721	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
Tetrachloro-m-xylene	Lin	2454 65000	4441 131562	7257	14135	33145	0.000500 0.0250	0.00125 0.0500	0.00250	0.00500	0.0125
DCB Decachlorobiphenyl	Ave	1201 54894	3354 102196	6571	12851	29348	0.000500 0.0250	0.00125 0.0500	0.00250	0.00500	0.0125

Curve Type Legend:

Ave = Average
Lin = Linear

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5890-12\20141002-35967.b\12_309_079.D
Lims ID: STD7
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 02-Oct-2014 17:33:37 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: buftchrom Instrument ID: HP5890-12
Sublist: chrom-hp12_pcb*sub1

Method: \\Bufchrom\ChromData\HP5890-12\20141002-35967.b\hp12_pcb.m
Limit Group: GC - 8082A PCB ICAL
Last Update: 03-Oct-2014 09:16:53 Calib Date: 03-Oct-2014 08:06:59
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5890-12\20141002-35967.b\12_309_108.D

Column 1 : ZB-5 (0.25 mm) Det: Ch-A-7A136
Column 2 : ZB-35 (0.53 mm) Det: Ch-B-7b136
Process Host: XAWRK023

First Level Reviewer: eversd Date: 02-Oct-2014 19:36:39

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
$ 3 Tetrachloro-m-xylene							
1	1.970	1.971	-0.001	131562	0.0500	0.0502	
2	1.547	1.551	-0.004	102821	0.0500	0.0505	
						RPD = 0.58	
6 PCB-1016							
1	2.549	2.552	-0.003	203323	2.00	1.58	
1	2.693	2.695	-0.002	125788	2.00	1.66	
1	2.891	2.893	-0.002	363114	2.00	1.75	
1	2.975	2.977	-0.002	149219	2.00	1.69	
		Average of Peak Amounts =				1.67	
2	2.439	2.443	-0.004	114210	2.00	1.72	
2	2.535	2.540	-0.005	310044	2.00	1.81	
2	2.649	2.655	-0.006	134011	2.00	1.75	
2	3.011	3.017	-0.006	156723	2.00	1.75	
		Average of Peak Amounts =				1.76	
						RPD = 5.11	
9 PCB-1260							
1	4.497	4.500	-0.003	406069	2.00	1.74	
1	4.721	4.723	-0.002	393010	2.00	1.79	
1	4.847	4.851	-0.004	261064	2.00	1.74	
1	5.233	5.237	-0.004	382708	2.00	1.63	
		Average of Peak Amounts =				1.72	
2	4.334	4.338	-0.004	356693	2.00	1.70	
2	4.639	4.644	-0.005	159515	2.00	1.69	
2	4.705	4.709	-0.004	139162	2.00	1.72	
2	4.772	4.777	-0.005	375376	2.00	1.65	
		Average of Peak Amounts =				1.69	
						RPD = 2.05	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
$ 12 DCB Decachlorobiphenyl							
1	6.733	6.736	-0.003	102196	0.0500	0.0424	
2	6.046	6.050	-0.004	115598	0.0500	0.0390	
						RPD =	8.40

Reagents:

AR1660 2.0ng_00003 Amount Added: 1.00 Units: mL

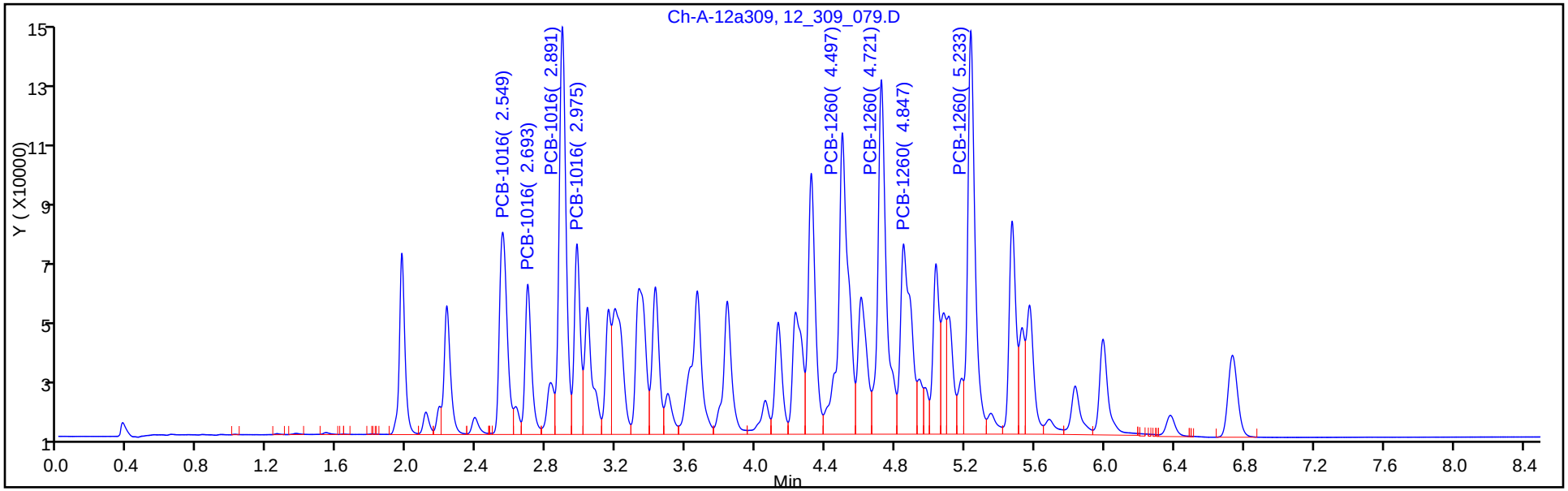
Report Date: 03-Oct-2014 09:16:54 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Buffalo

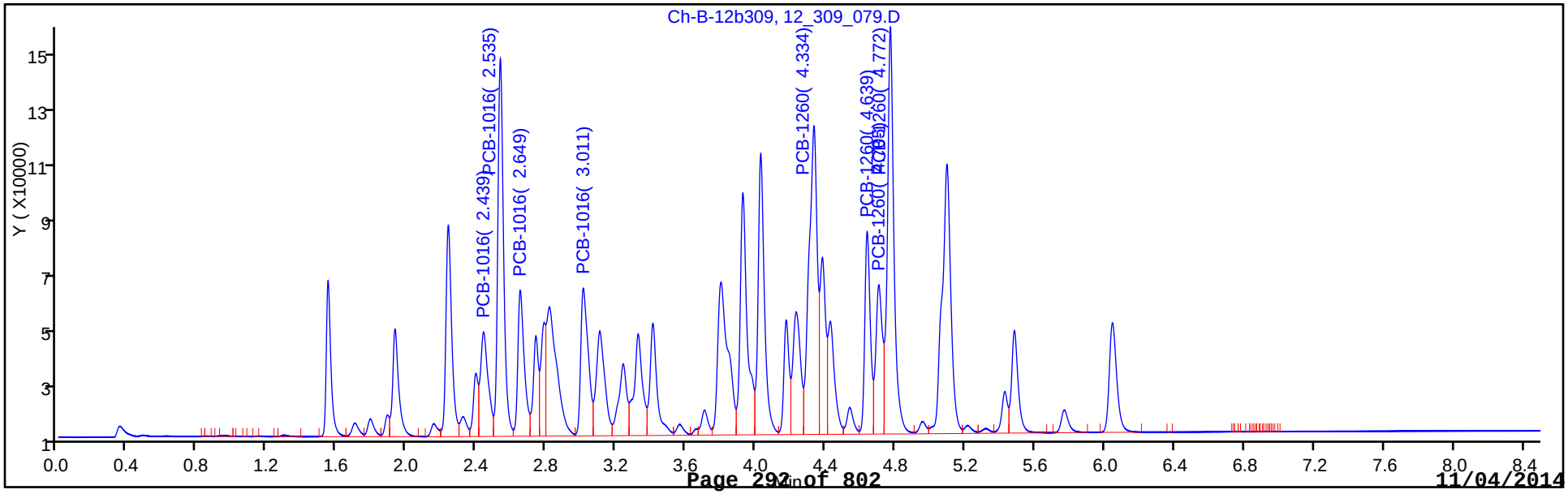
Data File: \\Bufchrom\ChromData\HP5890-12\20141002-35967.b\12_309_079.D

Injection Date:	02-Oct-2014 17:33:37	Instrument ID:	HP5890-12	Operator ID:	buftchrom
Lims ID:	STD7			Worklist Smp#:	1
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	hp12_pcb	Limit Group:	GC - 8082A PCB ICAL		

Column: ZB-5 (0.25 mm)



Column: ZB-35 (0.53 mm)



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5890-12\20141002-35967.b\12_309_080.D
Lims ID: STD6
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 02-Oct-2014 17:48:29 ALS Bottle#: 0 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: buftchrom Instrument ID: HP5890-12
Sublist: chrom-hp12_pcb*sub1

Method: \\Bufchrom\ChromData\HP5890-12\20141002-35967.b\hp12_pcb.m
Limit Group: GC - 8082A PCB ICAL
Last Update: 03-Oct-2014 09:16:55 Calib Date: 03-Oct-2014 08:06:59
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5890-12\20141002-35967.b\12_309_108.D

Column 1 : ZB-5 (0.25 mm) Det: Ch-A-7A136
Column 2 : ZB-35 (0.53 mm) Det: Ch-B-7b136
Process Host: XAWRK023

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
$ 3 Tetrachloro-m-xylene							
1	1.971	1.971	0.000	65000	0.0250	0.0246	
2	1.548	1.551	-0.003	49339	0.0250	0.0243	
						RPD = 1.45	
6 PCB-1016							
1	2.549	2.552	-0.003	109536	1.00	0.8492	
1	2.693	2.695	-0.002	66356	1.00	0.8747	
1	2.891	2.893	-0.002	189860	1.00	0.9165	
1	2.975	2.977	-0.002	78749	1.00	0.8915	
		Average of Peak Amounts =				0.8830	
2	2.440	2.443	-0.003	61659	1.00	0.9264	
2	2.535	2.540	-0.005	160627	1.00	0.9386	
2	2.650	2.655	-0.005	70831	1.00	0.9258	
2	3.013	3.017	-0.004	83244	1.00	0.9281	
		Average of Peak Amounts =				0.9297	
						RPD = 5.15	
9 PCB-1260							
1	4.497	4.500	-0.003	221105	1.00	0.9482	
1	4.721	4.723	-0.002	210246	1.00	0.9567	
1	4.848	4.851	-0.003	142877	1.00	0.9522	
1	5.234	5.237	-0.003	206677	1.00	0.8793	
		Average of Peak Amounts =				0.9341	
2	4.334	4.338	-0.004	187503	1.00	0.8959	
2	4.640	4.644	-0.004	83154	1.00	0.8817	
2	4.706	4.709	-0.003	73671	1.00	0.9084	
2	4.772	4.777	-0.005	197850	1.00	0.8676	
		Average of Peak Amounts =				0.8884	
						RPD = 5.02	
$ 12 DCB Decachlorobiphenyl							
1	6.734	6.736	-0.002	54894	0.0250	0.0228	
2	6.048	6.050	-0.002	62588	0.0250	0.0211	
						RPD = 7.61	

Reagents:

AR1660 2.0ng_00003 Amount Added: 0.50 Units: mL

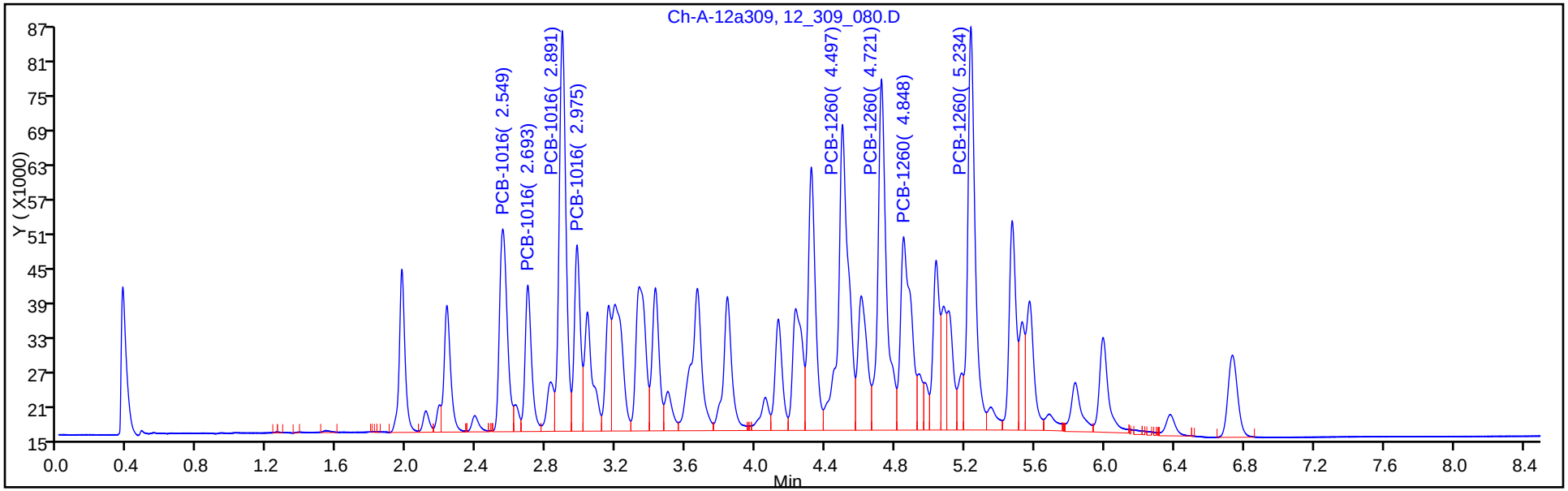
Report Date: 03-Oct-2014 09:16:56 Chrom Revision: 2.2 18-Aug-2014 12:17:36

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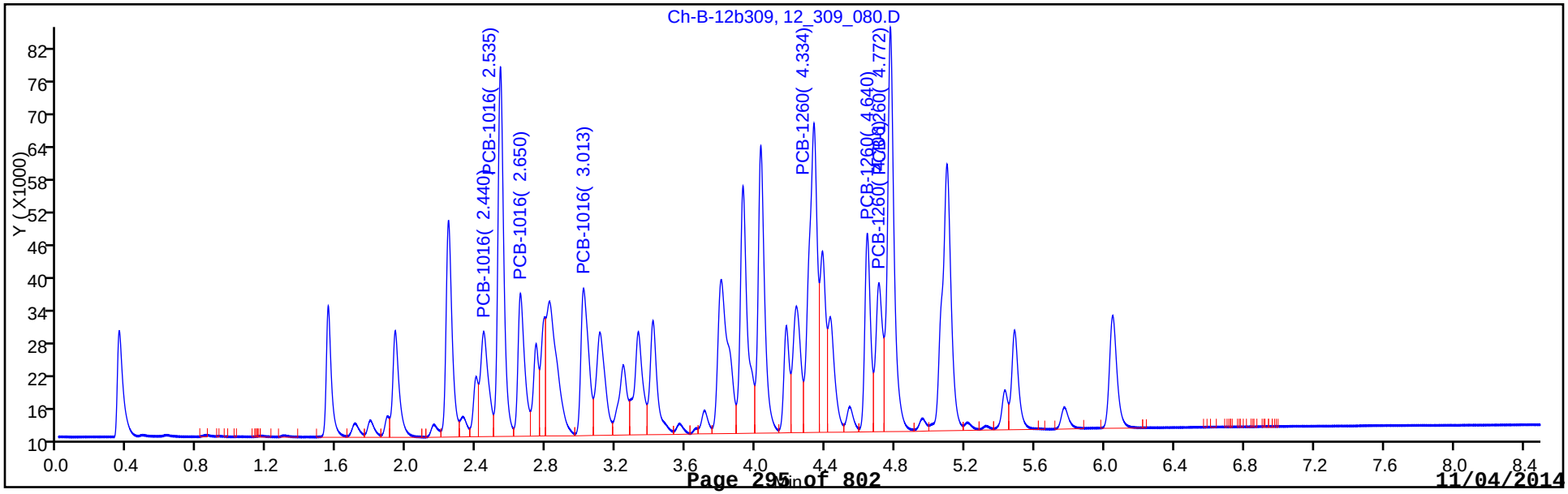
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Injection Date:	02-Oct-2014 17:48:29	Instrument ID:	HP5890-12	Operator ID:	buftchrom
Lims ID:	STD6			Worklist Smp#:	2
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	hp12_pcb	Limit Group:	GC - 8082A PCB ICAL		

Column: ZB-5 (0.25 mm)



Column: ZB-35 (0.53 mm)



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5890-12\20141002-35967.b\12_309_081.D
Lims ID: STD5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 02-Oct-2014 18:03:20 ALS Bottle#: 0 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: buftchrom Instrument ID: HP5890-12
Sublist: chrom-hp12_pcb*sub1

Method: \\Bufchrom\ChromData\HP5890-12\20141002-35967.b\hp12_pcb.m
Limit Group: GC - 8082A PCB ICAL
Last Update: 03-Oct-2014 09:16:57 Calib Date: 03-Oct-2014 08:06:59
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5890-12\20141002-35967.b\12_309_108.D

Column 1 : ZB-5 (0.25 mm) Det: Ch-A-7A136
Column 2 : ZB-35 (0.53 mm) Det: Ch-B-7b136
Process Host: XAWRK023

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
$ 3 Tetrachloro-m-xylene							
1	1.971	1.971	0.000	33145	0.0125	0.0124	
2	1.551	1.551	0.000	24155	0.0125	0.0119	
						RPD = 3.80	
6 PCB-1016							
1	2.551	2.552	-0.001	59998	0.5000	0.4651	
1	2.694	2.695	-0.001	35779	0.5000	0.4716	
1	2.892	2.893	-0.001	100065	0.5000	0.4831	
1	2.976	2.977	-0.001	42256	0.5000	0.4784	
		Average of Peak Amounts =				0.4746	
2	2.442	2.443	-0.001	32282	0.5000	0.4850	
2	2.538	2.540	-0.002	83243	0.5000	0.4864	
2	2.653	2.655	-0.002	37473	0.5000	0.4898	
2	3.015	3.017	-0.002	43644	0.5000	0.4866	
		Average of Peak Amounts =				0.4870	
						RPD = 2.58	
9 PCB-1260							
1	4.499	4.500	-0.001	124831	0.5000	0.5353	
1	4.722	4.723	-0.001	116557	0.5000	0.5304	
1	4.849	4.851	-0.002	80990	0.5000	0.5397	
1	5.235	5.237	-0.002	114721	0.5000	0.4880	
		Average of Peak Amounts =				0.5234	
2	4.336	4.338	-0.002	98464	0.5000	0.4704	
2	4.642	4.644	-0.002	44305	0.5000	0.4698	
2	4.709	4.709	0.000	38673	0.5000	0.4768	
2	4.774	4.777	-0.003	104651	0.5000	0.4589	
		Average of Peak Amounts =				0.4690	
						RPD = 10.96	
$ 12 DCB Decachlorobiphenyl							
1	6.735	6.736	-0.001	29348	0.0125	0.0122	
2	6.049	6.050	-0.001	33745	0.0125	0.0114	
						RPD = 6.77	

Reagents:

AR1660 2.0ng_00003 Amount Added: 0.25 Units: mL

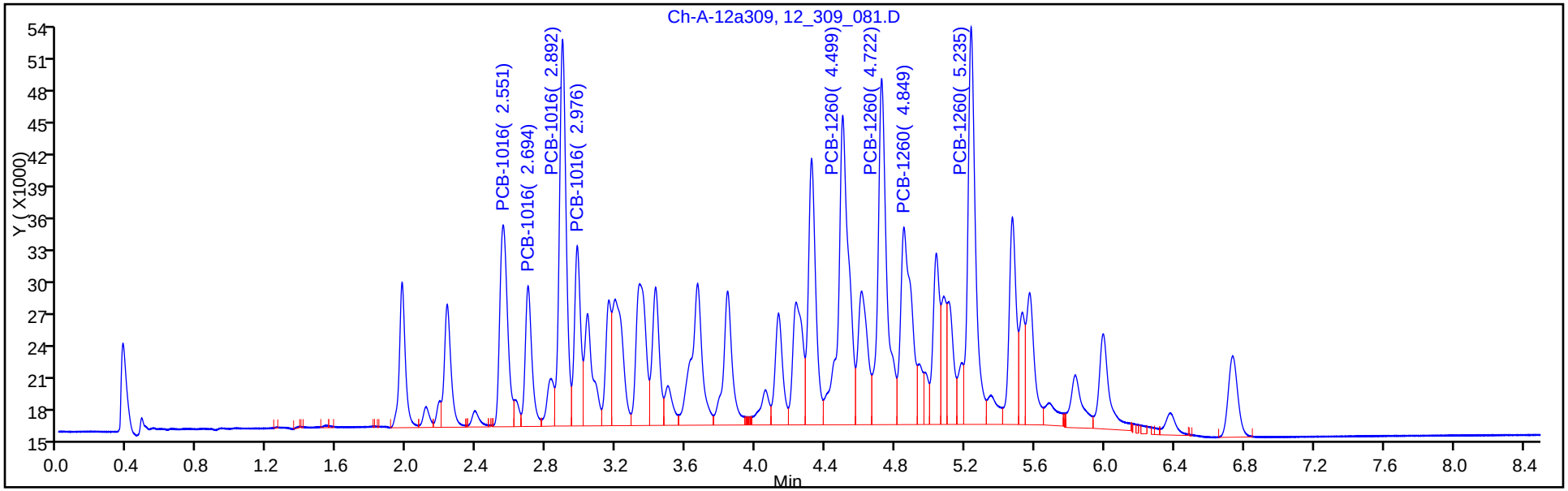
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TestAmerica Buffalo

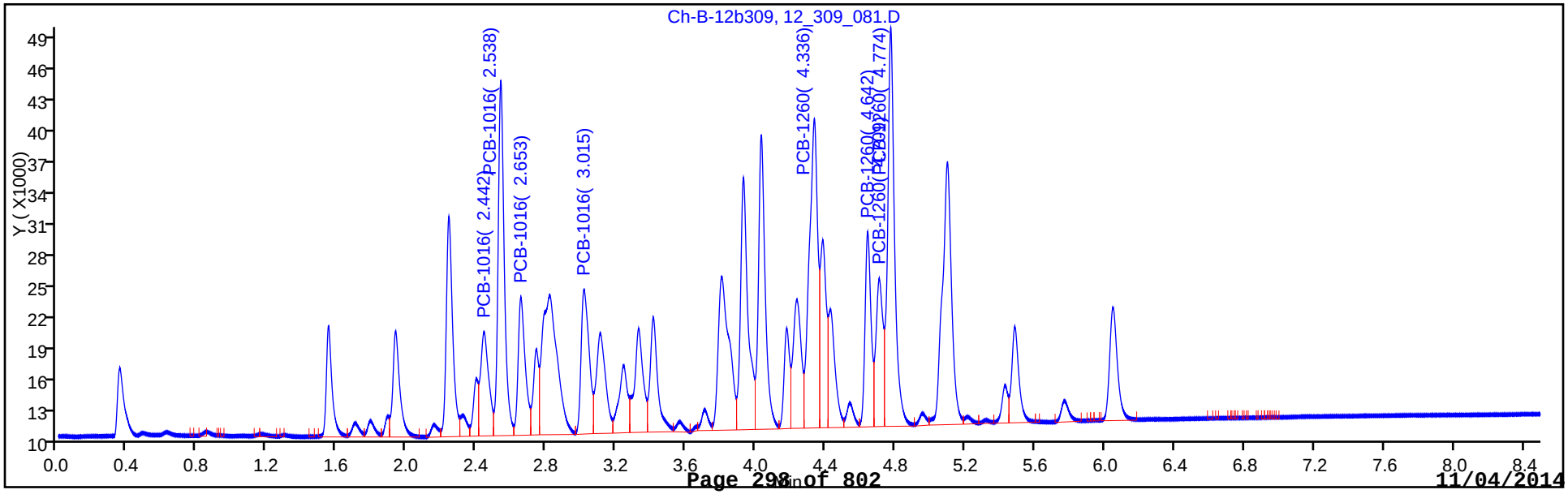
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Injection Date:	02-Oct-2014 18:03:20	Instrument ID:	HP5890-12	Operator ID:	buftchrom
Lims ID:	STD5			Worklist Smp#:	3
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	hp12_pcb	Limit Group:	GC - 8082A PCB ICAL		

Column: ZB-5 (0.25 mm)



Column: ZB-35 (0.53 mm)



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5890-12\20141002-35967.b\12_309_082.D
Lims ID: STD4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 02-Oct-2014 18:18:15 ALS Bottle#: 0 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: buftchrom Instrument ID: HP5890-12
Sublist: chrom-hp12_pcb*sub1

Method: \\Bufchrom\ChromData\HP5890-12\20141002-35967.b\hp12_pcb.m
Limit Group: GC - 8082A PCB ICAL
Last Update: 03-Oct-2014 09:16:59 Calib Date: 03-Oct-2014 08:06:59
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5890-12\20141002-35967.b\12_309_108.D

Column 1 : ZB-5 (0.25 mm) Det: Ch-A-7A136
Column 2 : ZB-35 (0.53 mm) Det: Ch-B-7b136
Process Host: XAWRK023

First Level Reviewer: eversd Date: 02-Oct-2014 19:30:29

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
$ 3 Tetrachloro-m-xylene							
1	1.971	1.971	0.000	14135	0.005000	0.005094	
2	1.549	1.551	-0.002	9996	0.005000	0.004994	
						RPD = 1.98	
6 PCB-1016							M
1	2.553	2.552	0.001	25885	0.2000	0.2007	M
1	2.694	2.695	-0.001	14177	0.2000	0.1869	M
1	2.893	2.893	0.000	41410	0.2000	0.1999	M
1	2.976	2.977	-0.001	17565	0.2000	0.1989	M
		Average of Peak Amounts =				0.1966	
2	2.442	2.443	-0.001	13861	0.2000	0.2083	M
2	2.539	2.540	-0.001	34257	0.2000	0.2002	M
2	2.653	2.655	-0.002	15558	0.2000	0.2033	M
2	3.017	3.017	0.000	18125	0.2000	0.2021	M
		Average of Peak Amounts =				0.2035	
						RPD = 3.44	
9 PCB-1260							M
1	4.499	4.500	-0.001	50174	0.2000	0.2152	M
1	4.722	4.723	-0.001	46573	0.2000	0.2119	M
1	4.850	4.851	-0.001	32277	0.2000	0.2151	M
1	5.236	5.237	-0.001	45384	0.2000	0.1931	M
		Average of Peak Amounts =				0.2088	
2	4.335	4.338	-0.003	42411	0.2000	0.2026	M
2	4.643	4.644	-0.001	18897	0.2000	0.2004	M
2	4.708	4.709	-0.001	16749	0.2000	0.2065	M
2	4.775	4.777	-0.002	45951	0.2000	0.2015	M
		Average of Peak Amounts =				0.2028	
						RPD = 2.95	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
$ 12 DCB Decachlorobiphenyl							
1	6.737	6.736	0.001	12851	0.005000	0.005332	
2	6.048	6.050	-0.002	14857	0.005000	0.005010	
						RPD = 6.22	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

AR1660 2.0ng_00003 Amount Added: 0.10 Units: mL

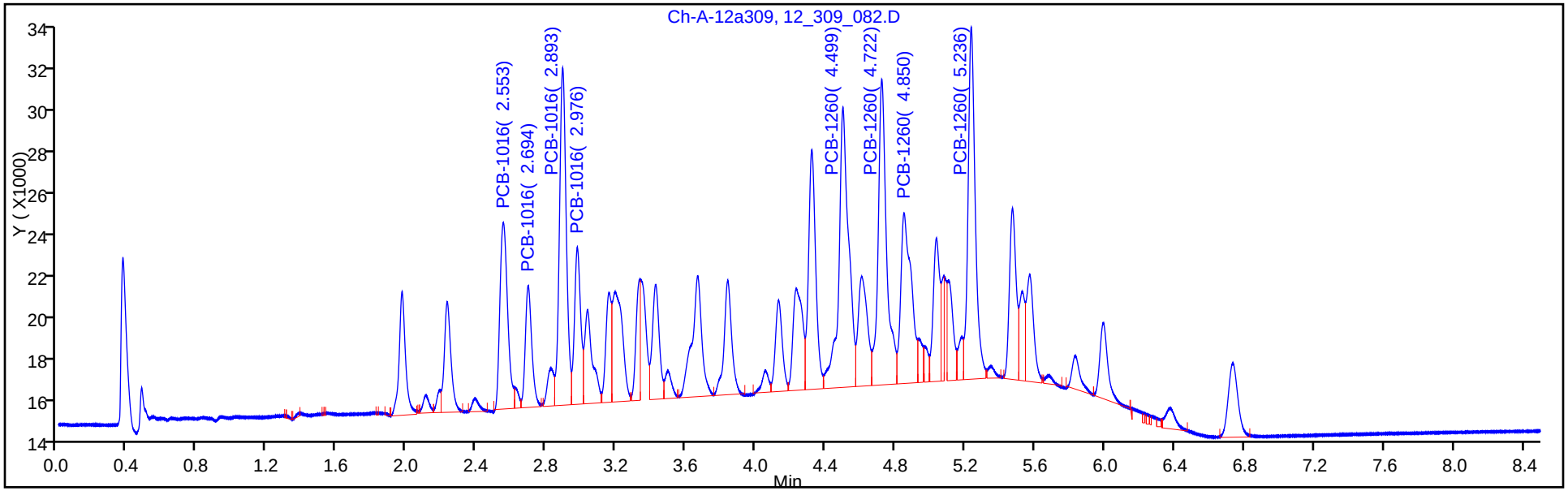
Report Date: 03-Oct-2014 09:17:06 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Buffalo

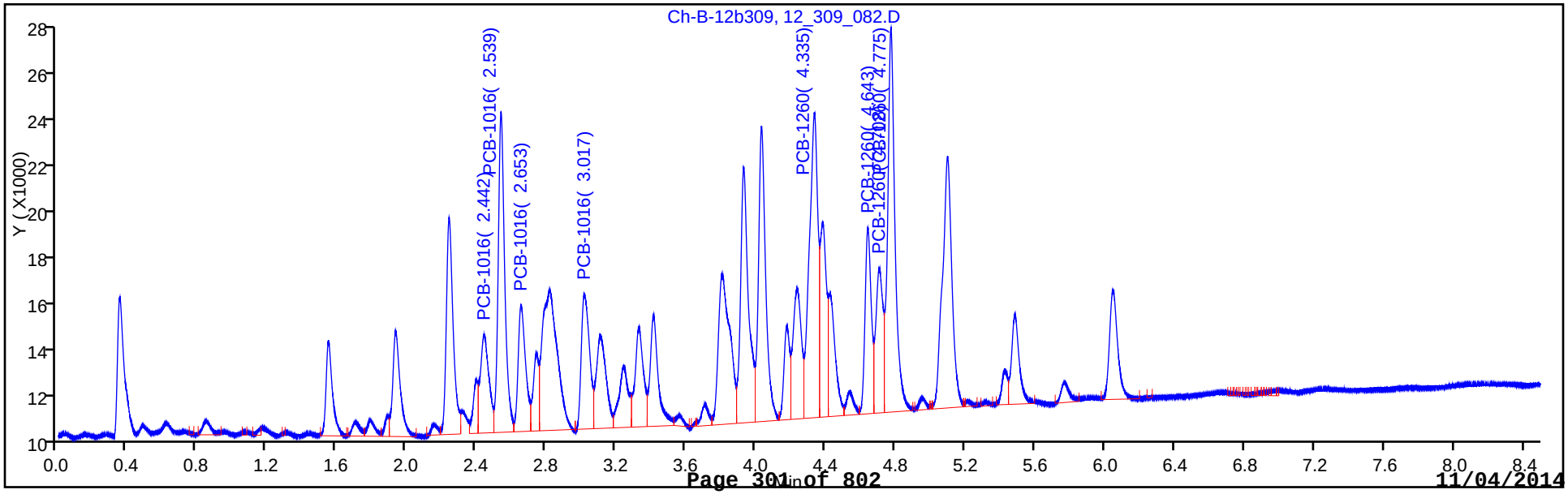
Data File: \\Bufchrom\ChromData\HP5890-12\20141002-35967.b\12_309_082.D

Injection Date:	02-Oct-2014 18:18:15	Instrument ID:	HP5890-12	Operator ID:	buftchrom
Lims ID:	STD4			Worklist Smp#:	4
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	hp12_pcb	Limit Group:	GC - 8082A PCB ICAL		

Column: ZB-5 (0.25 mm)



Column: ZB-35 (0.53 mm)



Report Date: 03-Oct-2014 09:17:06 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5890-12\20141002-35967.b\12_309_082.D

Injection Date: 02-Oct-2014 18:18:15 Instrument ID: HP5890-12

Lims ID: STD4

Client ID:

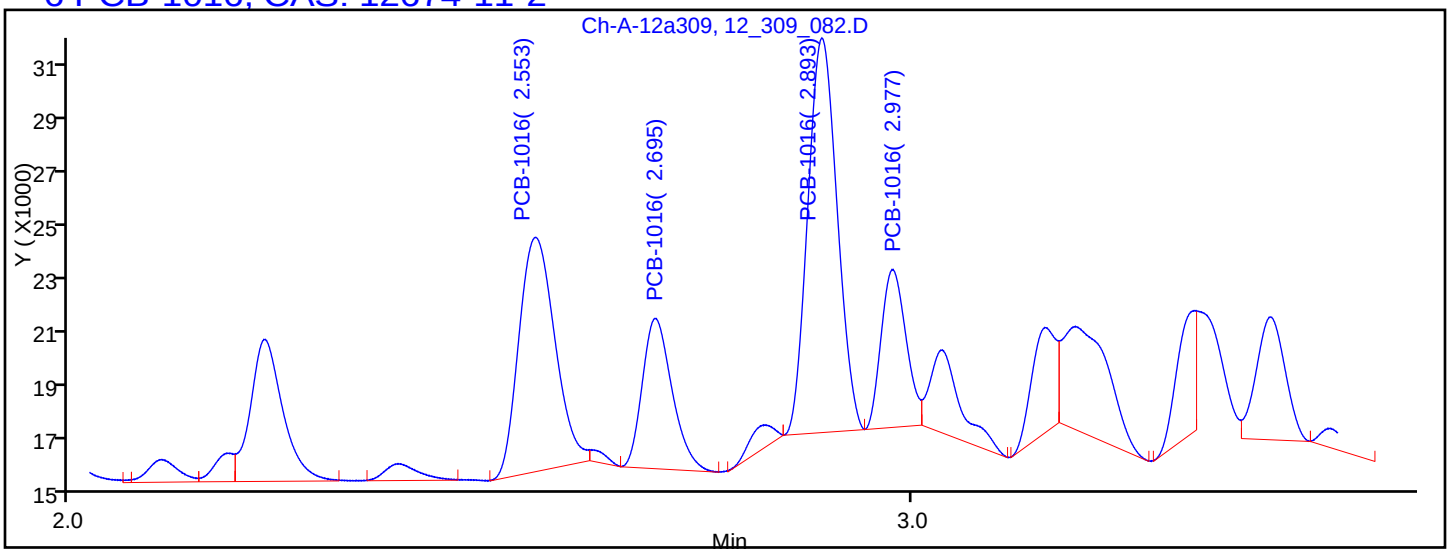
Operator ID: buftchrom ALS Bottle#: 0 Worklist Smp#: 4

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: hp12_pcb Limit Group: GC - 8082A PCB ICAL

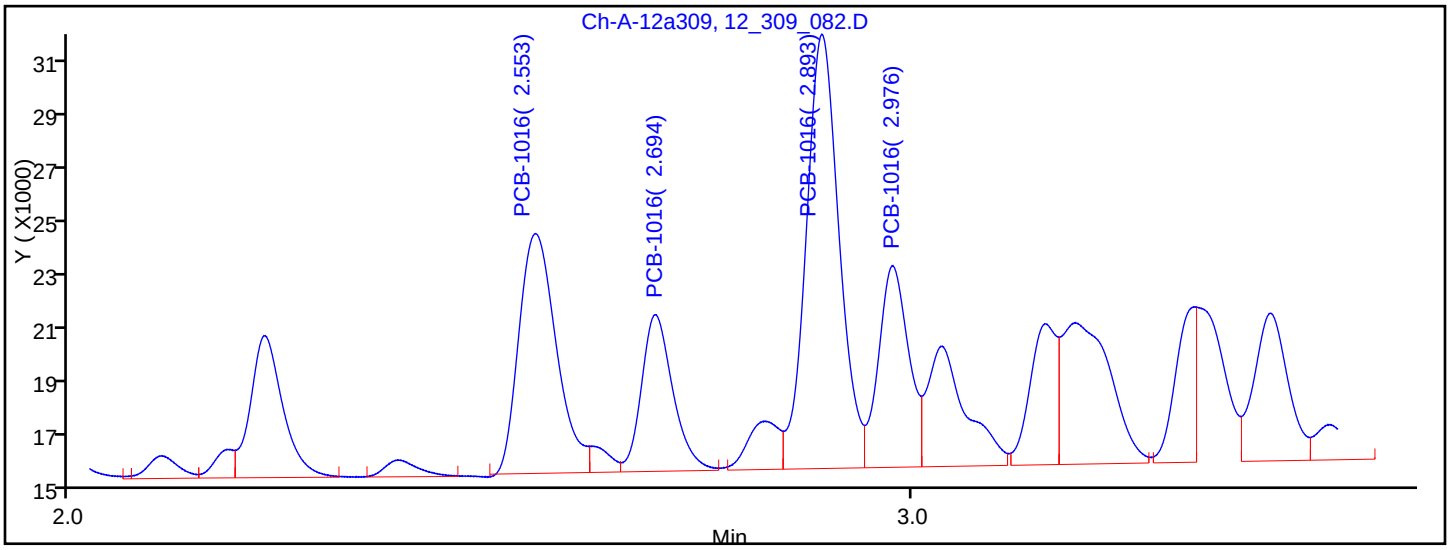
Column: ZB-5 (0.25 mm) Detector Ch-A-7A136

6 PCB-1016, CAS: 12674-11-2



Processing Integration Results

RT = 2.553	Response = 24330	M
RT = 2.695	Response = 12868	M
RT = 2.893	Response = 33374	M
RT = 2.977	Response = 11357	M



Manual Integration Results

RT = 2.553	Response = 25885	M
RT = 2.694	Response = 14177	M
RT = 2.893	Response = 41410	M
RT = 2.976	Response = 17565	M

Reviewer: eversd, 02-Oct-2014 19:30:29

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

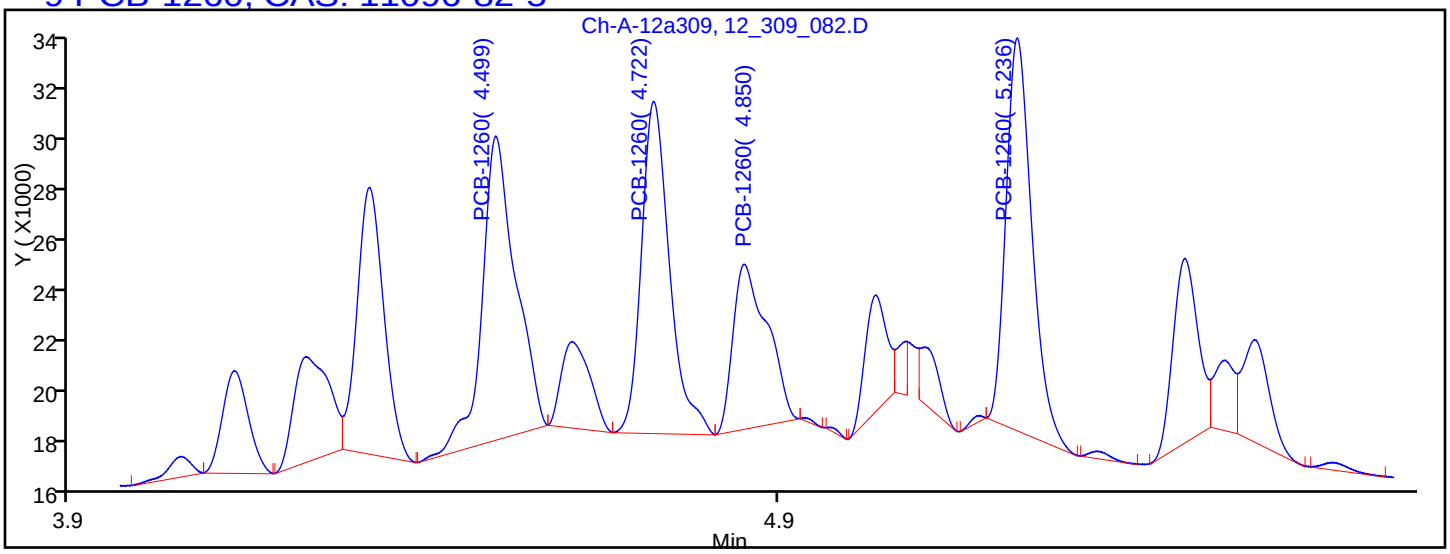
Report Date: 03-Oct-2014 09:17:06 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5890-12\20141002-35967.b\12_309_082.D

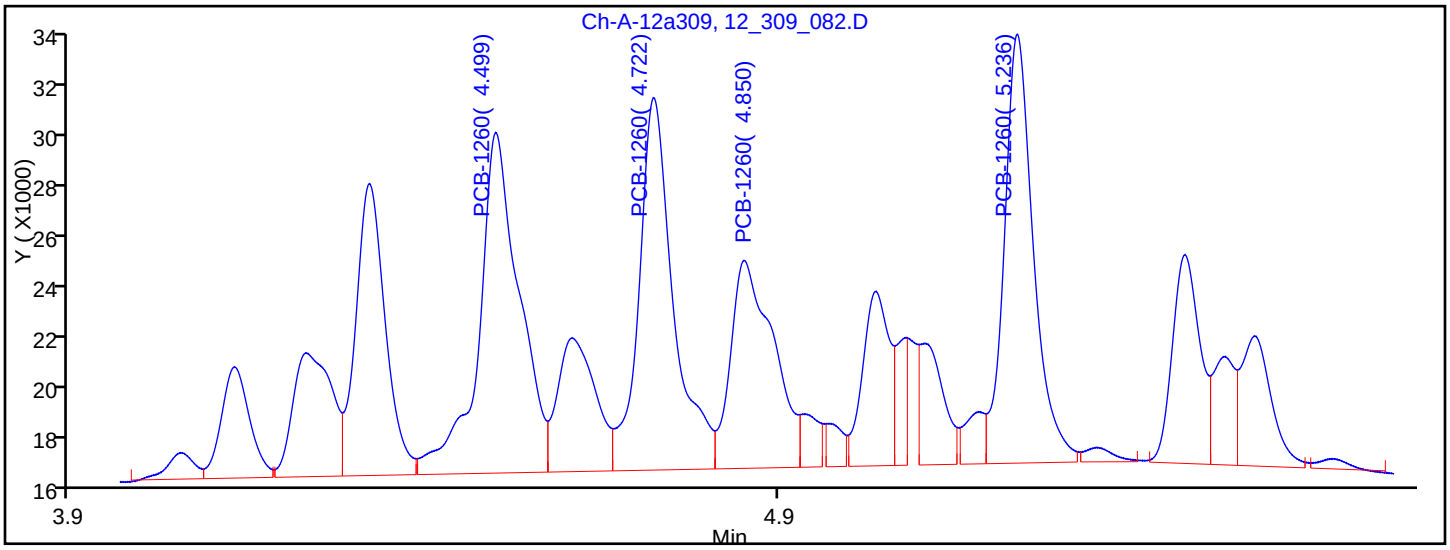
Injection Date:	02-Oct-2014 18:18:15	Instrument ID:	HP5890-12		
Lims ID:	STD4				
Client ID:					
Operator ID:	buftchrom	ALS Bottle#:	0	Worklist Smp#:	4
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	hp12_pcb	Limit Group:	GC - 8082A PCB ICAL		
Column:	ZB-5 (0.25 mm)	Detector	Ch-A-7A136		

9 PCB-1260, CAS: 11096-82-5



Processing Integration Results

RT = 4.499	Response = 36738	M
RT = 4.722	Response = 33857	M
RT = 4.850	Response = 20350	M
RT = 5.236	Response = 36961	M



Manual Integration Results

RT = 4.499	Response = 50174	M
RT = 4.722	Response = 46573	M
RT = 4.850	Response = 32277	M
RT = 5.236	Response = 45384	M

Reviewer: eversd, 02-Oct-2014 19:30:29

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5890-12\20141002-35967.b\12_309_083.D
Lims ID: STD3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 02-Oct-2014 18:33:08 ALS Bottle#: 0 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: buftchrom Instrument ID: HP5890-12
Sublist: chrom-hp12_pcb*sub1

Method: \\Bufchrom\ChromData\HP5890-12\20141002-35967.b\hp12_pcb.m
Limit Group: GC - 8082A PCB ICAL
Last Update: 03-Oct-2014 09:17:08 Calib Date: 03-Oct-2014 08:06:59
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5890-12\20141002-35967.b\12_309_108.D

Column 1 : ZB-5 (0.25 mm) Det: Ch-A-7A136
Column 2 : ZB-35 (0.53 mm) Det: Ch-B-7b136
Process Host: XAWRK023

First Level Reviewer: eversd Date: 02-Oct-2014 19:31:12

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
$ 3 Tetrachloro-m-xylene							
1	1.971	1.971	0.000	7257	0.002500	0.002452	
2	1.551	1.551	0.000	4876	0.002500	0.002485	
						RPD = 1.33	
6 PCB-1016							M
1	2.552	2.552	0.000	14109	0.1000	0.1094	M
1	2.695	2.695	0.000	7400	0.1000	0.0975	M
1	2.893	2.893	0.000	21534	0.1000	0.1040	M
1	2.977	2.977	0.000	9069	0.1000	0.1027	M
		Average of Peak Amounts =				0.1034	
2	2.443	2.443	0.000	7140	0.1000	0.1073	
2	2.540	2.540	0.000	17839	0.1000	0.1042	
2	2.655	2.655	0.000	8202	0.1000	0.1072	
2	3.017	3.017	0.000	9495	0.1000	0.1059	
		Average of Peak Amounts =				0.1061	
						RPD = 2.63	
9 PCB-1260							M
1	4.500	4.500	0.000	25687	0.1000	0.1102	M
1	4.723	4.723	0.000	22991	0.1000	0.1046	M
1	4.851	4.851	0.000	15677	0.1000	0.1045	M
1	5.237	5.237	0.000	23345	0.1000	0.0993	
		Average of Peak Amounts =				0.1046	
2	4.338	4.338	0.000	22086	0.1000	0.1055	M
2	4.644	4.644	0.000	9802	0.1000	0.1039	M
2	4.709	4.709	0.000	8763	0.1000	0.1080	M
2	4.777	4.777	0.000	24466	0.1000	0.1073	M
		Average of Peak Amounts =				0.1062	
						RPD = 1.48	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
$ 12 DCB Decachlorobiphenyl							
1	6.736	6.736	0.000	6571	0.002500	0.002726	
2	6.050	6.050	0.000	7855	0.002500	0.002649	
						RPD = 2.88	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

AR1660 2.0ng_00003 Amount Added: 0.05 Units: mL

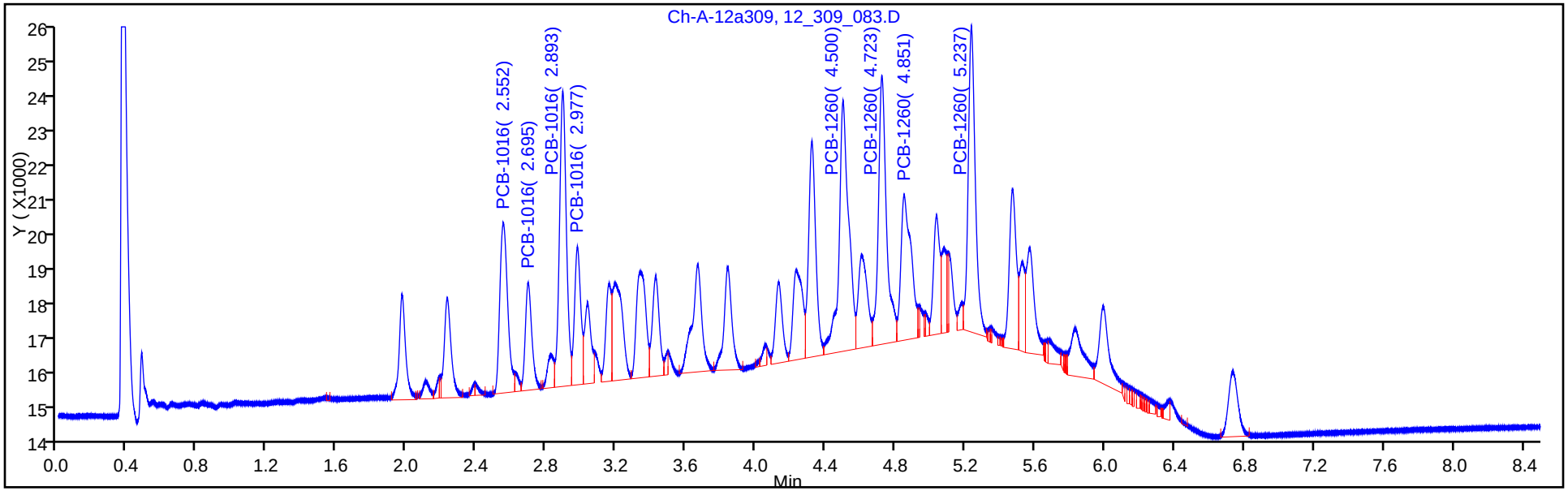
Report Date: 03-Oct-2014 09:17:08 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Buffalo

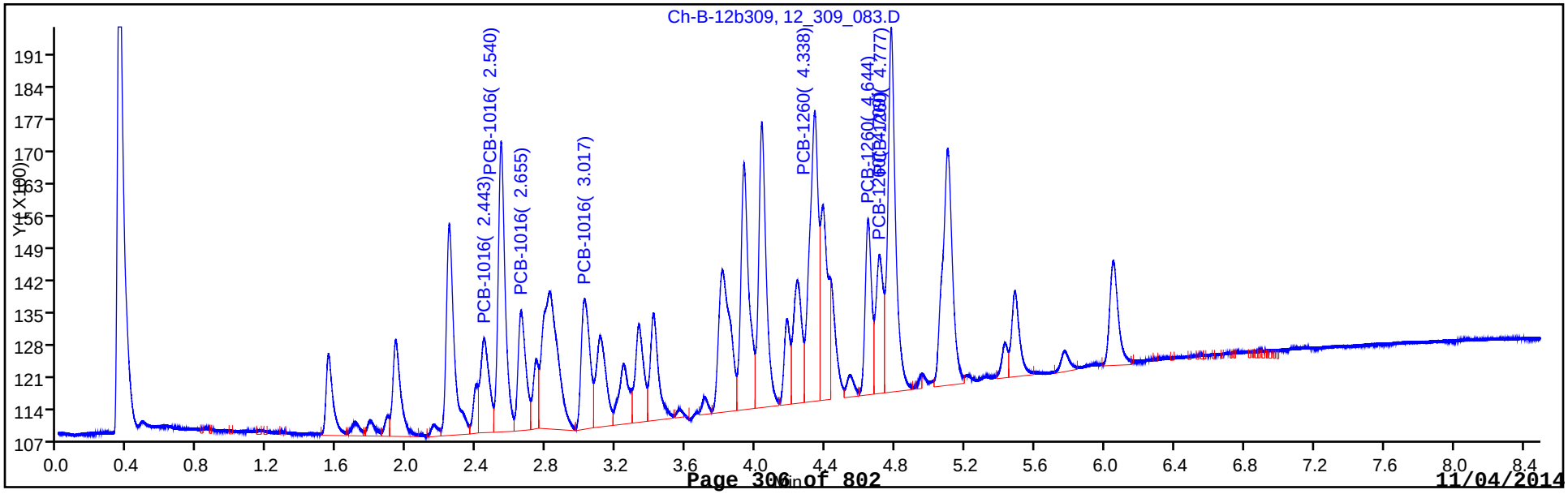
Data File: \\Bufchrom\ChromData\HP5890-12\20141002-35967.b\12_309_083.D

Injection Date:	02-Oct-2014 18:33:08	Instrument ID:	HP5890-12	Operator ID:	buftchrom
Lims ID:	STD3			Worklist Smp#:	5
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	hp12_pcb	Limit Group:	GC - 8082A PCB ICAL		

Column: ZB-5 (0.25 mm)



Column: ZB-35 (0.53 mm)



Report Date: 03-Oct-2014 09:17:09 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5890-12\20141002-35967.b\12_309_083.D

Injection Date: 02-Oct-2014 18:33:08 Instrument ID: HP5890-12

Lims ID: STD3

Client ID:

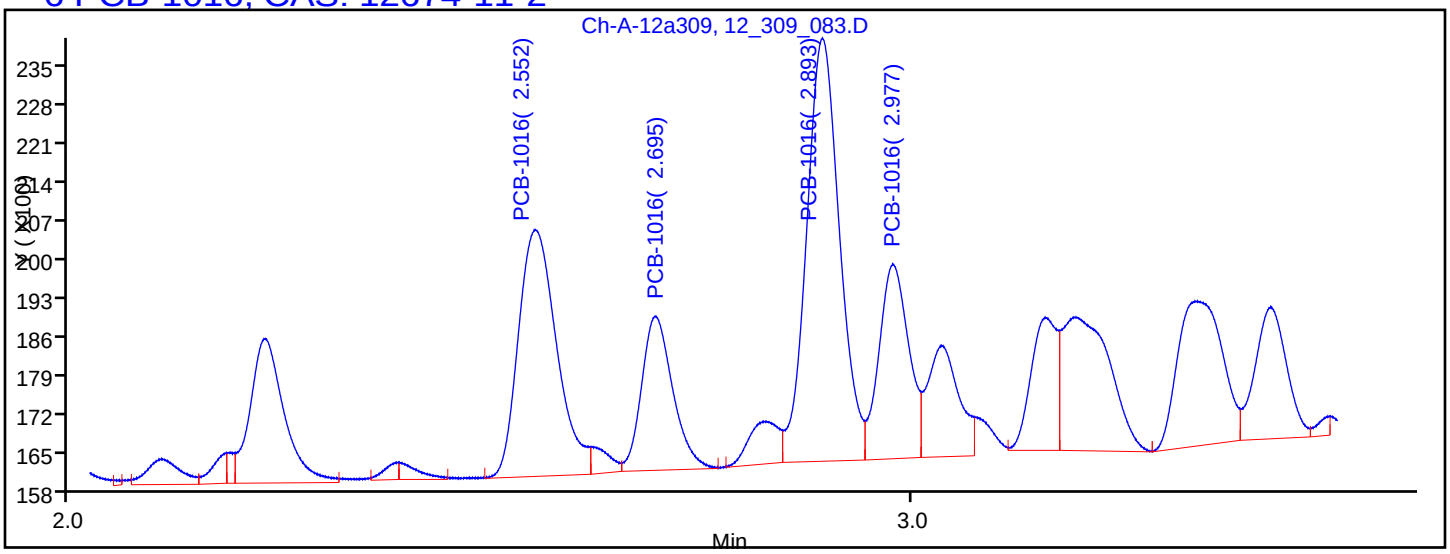
Operator ID: buftchrom ALS Bottle#: 0 Worklist Smp#: 5

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: hp12_pcb Limit Group: GC - 8082A PCB ICAL

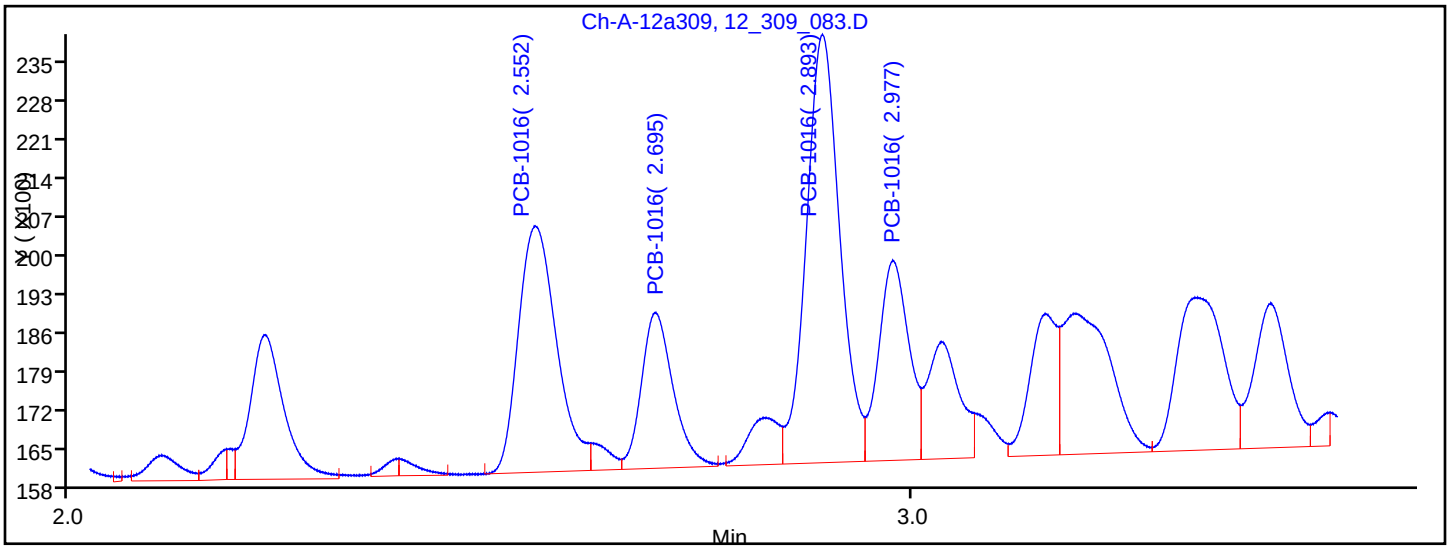
Column: ZB-5 (0.25 mm) Detector Ch-A-7A136

6 PCB-1016, CAS: 12674-11-2



Processing Integration Results

RT = 2.552	Response = 14162	M
RT = 2.695	Response = 7190	M
RT = 2.893	Response = 20978	M
RT = 2.977	Response = 8677	M



Manual Integration Results

RT = 2.552	Response = 14109	M
RT = 2.695	Response = 7400	M
RT = 2.893	Response = 21534	M
RT = 2.977	Response = 9069	M

Reviewer: eversd, 02-Oct-2014 19:31:12

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

Report Date: 03-Oct-2014 09:17:09 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5890-12\20141002-35967.b\12_309_083.D

Injection Date: 02-Oct-2014 18:33:08 Instrument ID: HP5890-12

Lims ID: STD3

Client ID:

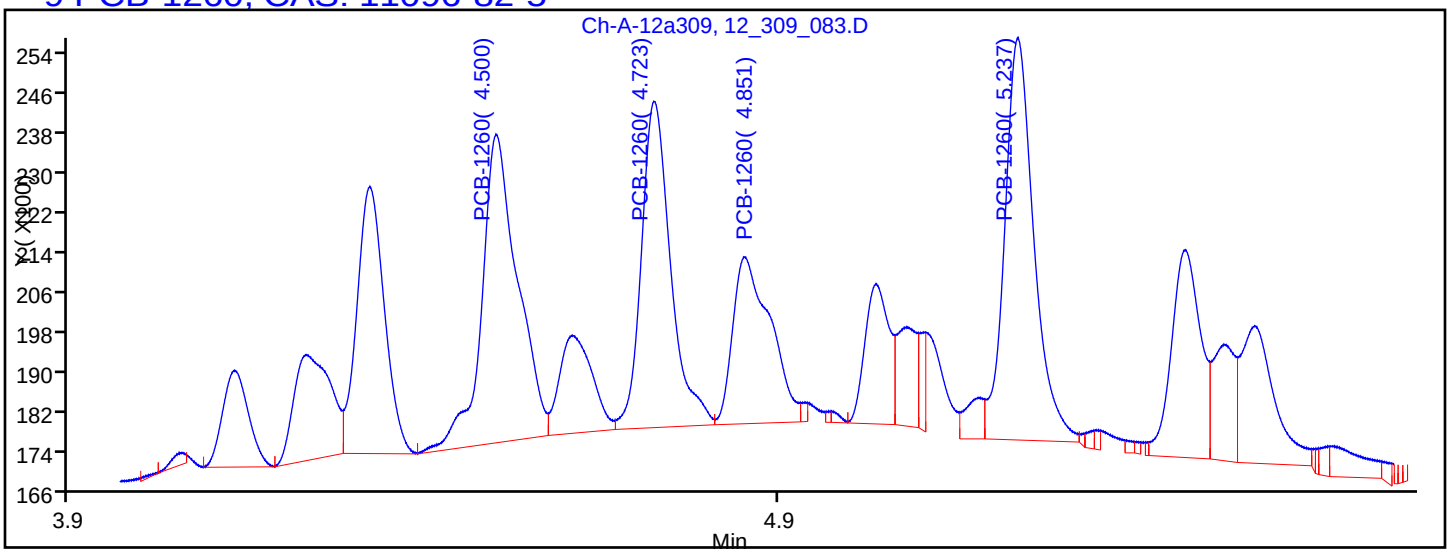
Operator ID: buftchrom ALS Bottle#: 0 Worklist Smp#: 5

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: hp12_pcb Limit Group: GC - 8082A PCB ICAL

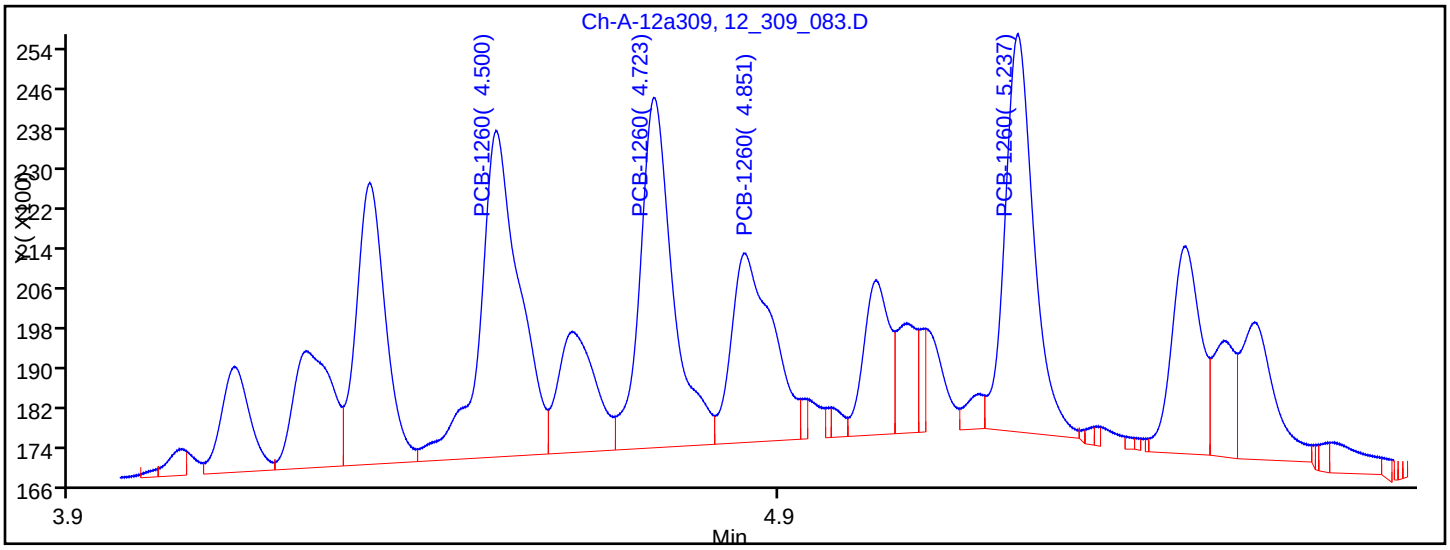
Column: ZB-5 (0.25 mm) Detector Ch-A-7A136

9 PCB-1260, CAS: 11096-82-5



Processing Integration Results

RT = 4.500	Response = 21926	M
RT = 4.723	Response = 18963	M
RT = 4.851	Response = 12423	M
RT = 5.237	Response = 23345	



Manual Integration Results

RT = 4.500	Response = 25687	M
RT = 4.723	Response = 22991	M
RT = 4.851	Response = 15677	M
RT = 5.237	Response = 23345	

Reviewer: eversd, 02-Oct-2014 19:31:12

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5890-12\20141002-35967.b\12_309_084.D
Lims ID: STD2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 02-Oct-2014 18:48:03 ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: buftchrom Instrument ID: HP5890-12
Sublist: chrom-hp12_pcb*sub1

Method: \\Bufchrom\ChromData\HP5890-12\20141002-35967.b\hp12_pcb.m
Limit Group: GC - 8082A PCB ICAL
Last Update: 03-Oct-2014 09:17:10 Calib Date: 03-Oct-2014 08:06:59
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5890-12\20141002-35967.b\12_309_108.D

Column 1 : ZB-5 (0.25 mm) Det: Ch-A-7A136
Column 2 : ZB-35 (0.53 mm) Det: Ch-B-7b136
Process Host: XAWRK023

First Level Reviewer: eversd Date: 02-Oct-2014 19:31:59

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
$ 3 Tetrachloro-m-xylene							
1	1.972	1.971	0.001	4441	0.001250	0.001370	
2	1.551	1.551	0.000	3070	0.001250	0.001600	
						RPD = 15.44	
6 PCB-1016							M
1	2.553	2.552	0.001	6910	0.0500	0.0536	
1	2.695	2.695	0.000	4254	0.0500	0.0561	M
1	2.895	2.893	0.002	11283	0.0500	0.0545	M
1	2.978	2.977	0.001	4871	0.0500	0.0551	M
		Average of Peak Amounts =				0.0548	
2	2.443	2.443	0.000	3564	0.0500	0.0535	M
2	2.539	2.540	-0.001	9114	0.0500	0.0533	M
2	2.654	2.655	-0.001	4196	0.0500	0.0548	M
2	3.019	3.017	0.002	4654	0.0500	0.0519	
		Average of Peak Amounts =				0.0534	
						RPD = 2.65	
9 PCB-1260							M
1	4.501	4.500	0.001	10652	0.0500	0.0457	
1	4.724	4.723	0.001	10794	0.0500	0.0491	
1	4.851	4.851	0.000	7572	0.0500	0.0505	
1	5.237	5.237	0.000	14304	0.0500	0.0609	
		Average of Peak Amounts =				0.0515	
2	4.339	4.338	0.001	11670	0.0500	0.0558	M
2	4.645	4.644	0.001	5334	0.0500	0.0566	M
2	4.709	4.709	0.000	4305	0.0500	0.0531	M
2	4.777	4.777	0.000	12481	0.0500	0.0547	
		Average of Peak Amounts =				0.0550	
						RPD = 6.58	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
$ 12 DCB Decachlorobiphenyl							
1	6.737	6.736	0.001	3354	0.001250	0.001392	
2	6.052	6.050	0.002	4209	0.001250	0.001419	
						RPD = 1.98	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

AR1660 2.0ng_00003 Amount Added: 0.03 Units: mL

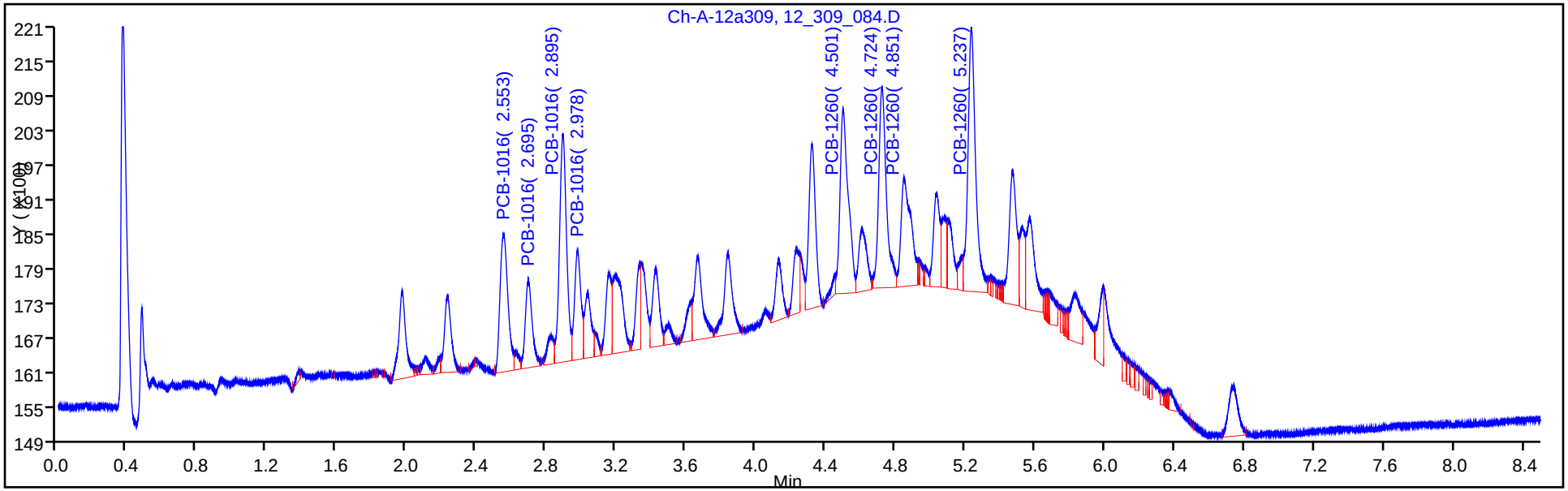
Report Date: 03-Oct-2014 09:17:11 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Buffalo

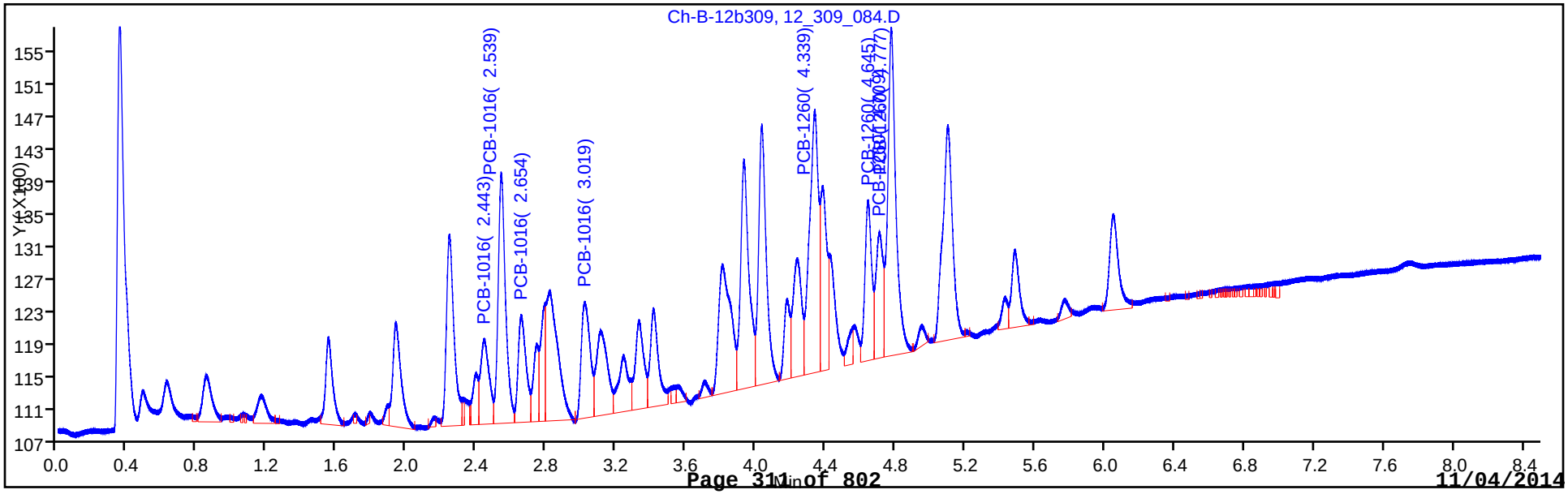
Data File: \\Bufchrom\ChromData\HP5890-12\20141002-35967.b\12_309_084.D

Injection Date:	02-Oct-2014 18:48:03	Instrument ID:	HP5890-12	Operator ID:	buftchrom
Lims ID:	STD2			Worklist Smp#:	6
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	hp12_pcb	Limit Group:	GC - 8082A PCB ICAL		

Column: ZB-5 (0.25 mm)



Column: ZB-35 (0.53 mm)



Report Date: 03-Oct-2014 09:17:11 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5890-12\20141002-35967.b\12_309_084.D

Injection Date: 02-Oct-2014 18:48:03 Instrument ID: HP5890-12

Lims ID: STD2

Client ID:

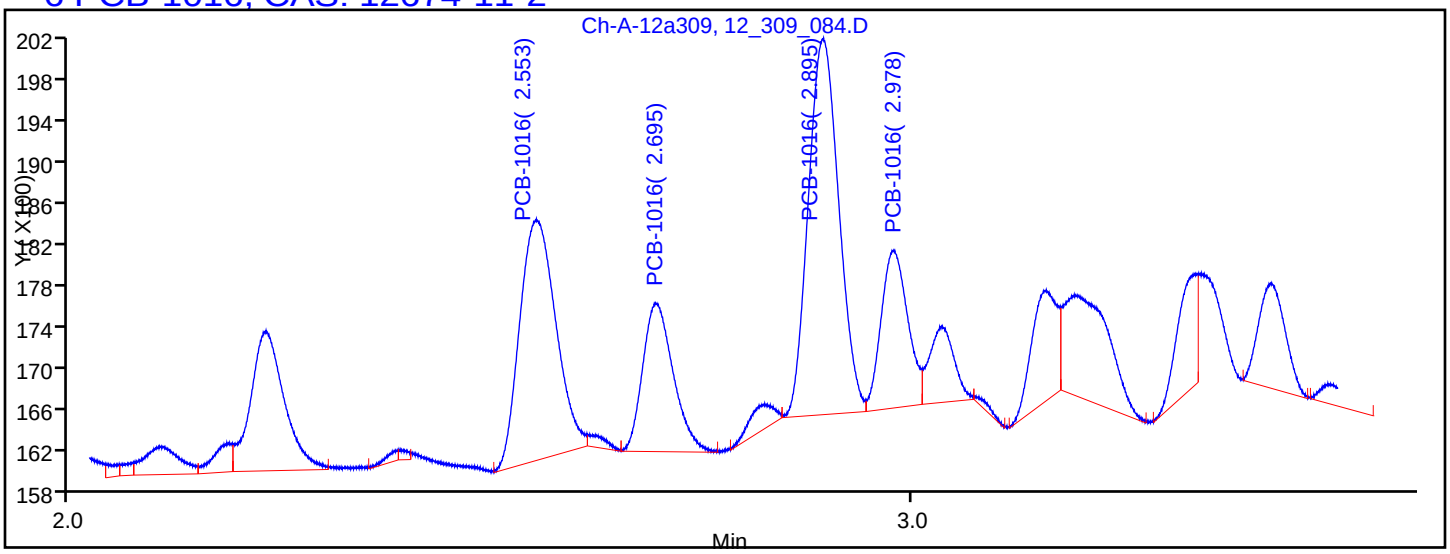
Operator ID: buftchrom ALS Bottle#: 0 Worklist Smp#: 6

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: hp12_pcb Limit Group: GC - 8082A PCB ICAL

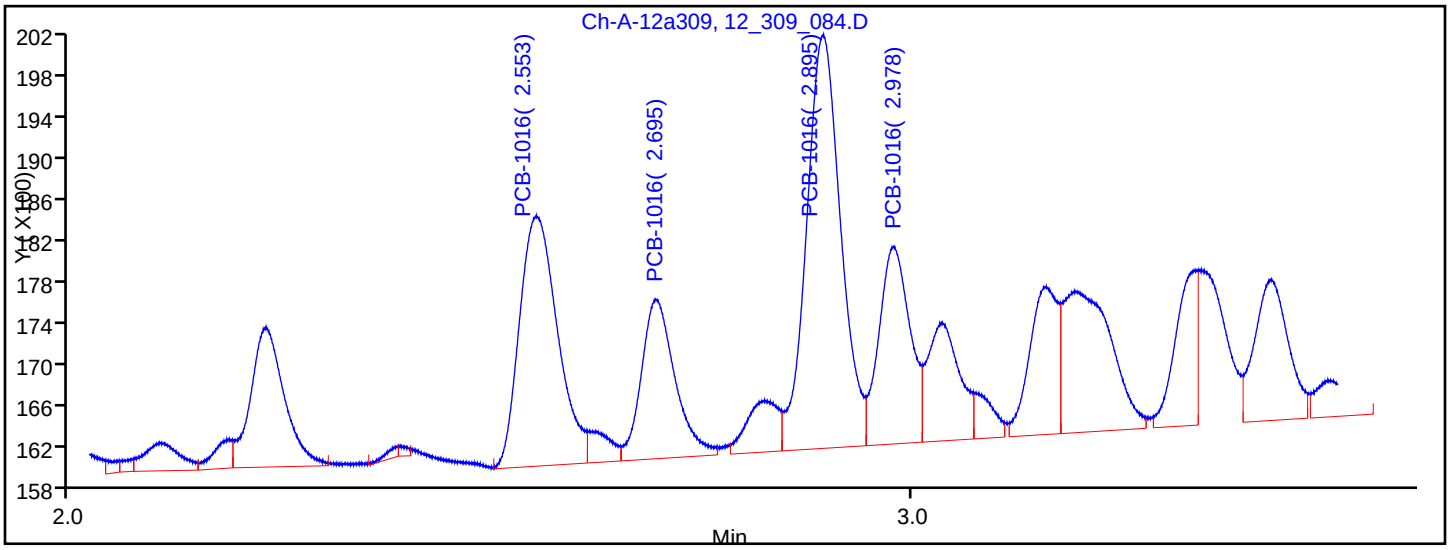
Column: ZB-5 (0.25 mm) Detector Ch-A-7A136

6 PCB-1016, CAS: 12674-11-2



Processing Integration Results

RT = 2.553	Response = 6910	
RT = 2.695	Response = 3601	M
RT = 2.895	Response = 9126	M
RT = 2.978	Response = 3344	M



Manual Integration Results

RT = 2.553	Response = 6910	
RT = 2.695	Response = 4254	M
RT = 2.895	Response = 11283	M
RT = 2.978	Response = 4871	M

Reviewer: eversd, 02-Oct-2014 19:31:59

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5890-12\20141002-35967.b\12_309_085.D
Lims ID: STD1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 02-Oct-2014 19:02:53 ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: buftchrom Instrument ID: HP5890-12
Sublist: chrom-hp12_pcb*sub1

Method: \\Bufchrom\ChromData\HP5890-12\20141002-35967.b\hp12_pcb.m
Limit Group: GC - 8082A PCB ICAL
Last Update: 03-Oct-2014 09:17:13 Calib Date: 03-Oct-2014 08:06:59
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5890-12\20141002-35967.b\12_309_108.D

Column 1 : ZB-5 (0.25 mm) Det: Ch-A-7A136
Column 2 : ZB-35 (0.53 mm) Det: Ch-B-7b136
Process Host: XAWRK023

First Level Reviewer: eversd Date: 02-Oct-2014 19:34:09

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
$ 3 Tetrachloro-m-xylene							M
1	1.971	1.971	0.000	2454	0.000500	0.000607	M
2	1.549	1.551	-0.002	1784	0.000500	0.000969	
						RPD = 45.95	
6 PCB-1016							M
1	2.553	2.552	0.001	3260	0.0200	0.0253	
1	2.696	2.695	0.001	2005	0.0200	0.0264	M
1	2.894	2.893	0.001	4609	0.0200	0.0222	M
1	2.977	2.977	0.000	2090	0.0200	0.0237	M
		Average of Peak Amounts =				0.0244	
2	2.439	2.443	-0.004	1412	0.0200	0.0212	M
2	2.539	2.540	-0.001	3677	0.0200	0.0215	M
2	2.653	2.655	-0.002	1581	0.0200	0.0207	M
2	3.018	3.017	0.001	2006	0.0200	0.0224	M
		Average of Peak Amounts =				0.0214	
						RPD = 12.96	
9 PCB-1260							M
1	4.501	4.500	0.001	4754	0.0200	0.0204	M
1	4.724	4.723	0.001	4396	0.0200	0.0200	
1	4.851	4.851	0.000	2908	0.0200	0.0194	M
1	5.237	5.237	0.000	5430	0.0200	0.0231	
		Average of Peak Amounts =				0.0207	
2	4.337	4.338	-0.001	4720	0.0200	0.0226	M
2	4.645	4.644	0.001	2190	0.0200	0.0232	M
2	4.709	4.709	0.000	1793	0.0200	0.0221	M
2	4.777	4.777	0.000	5548	0.0200	0.0243	
		Average of Peak Amounts =				0.0231	
						RPD = 10.67	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
$ 12 DCB Decachlorobiphenyl							M
1	6.736	6.736	0.000	1201	0.000500	0.000498	M
2	6.054	6.050	0.004	1881	0.000500	0.000634	
						RPD = 24.02	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

AR1660 2.0ng_00003 Amount Added: 0.01 Units: mL

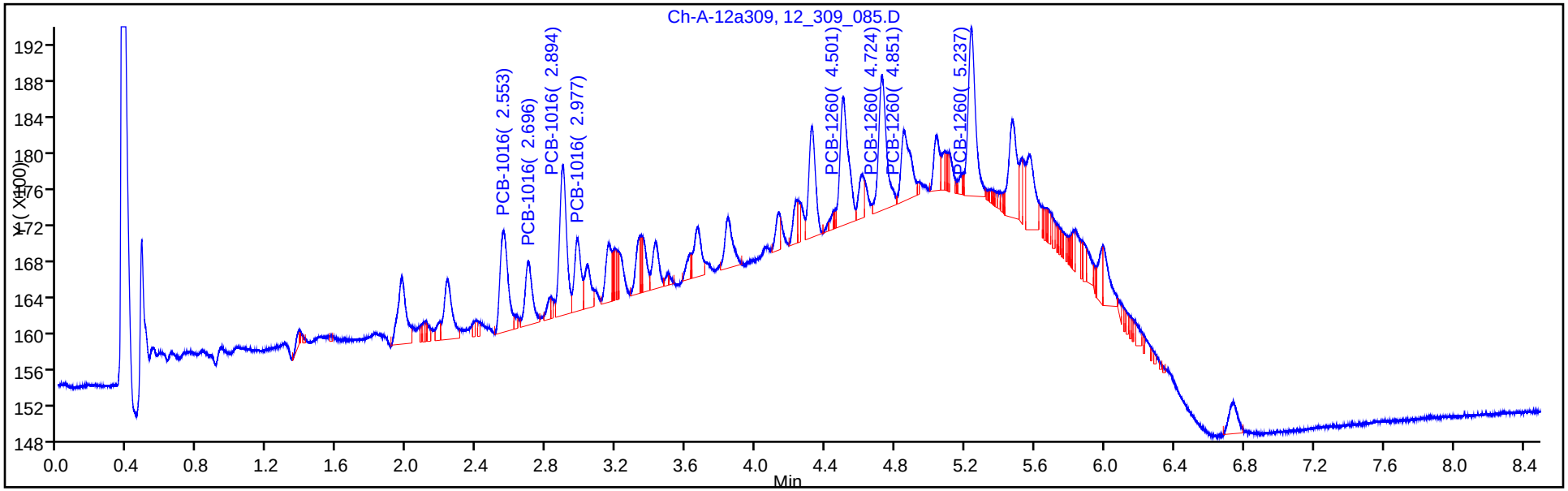
Report Date: 03-Oct-2014 09:17:13 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Buffalo

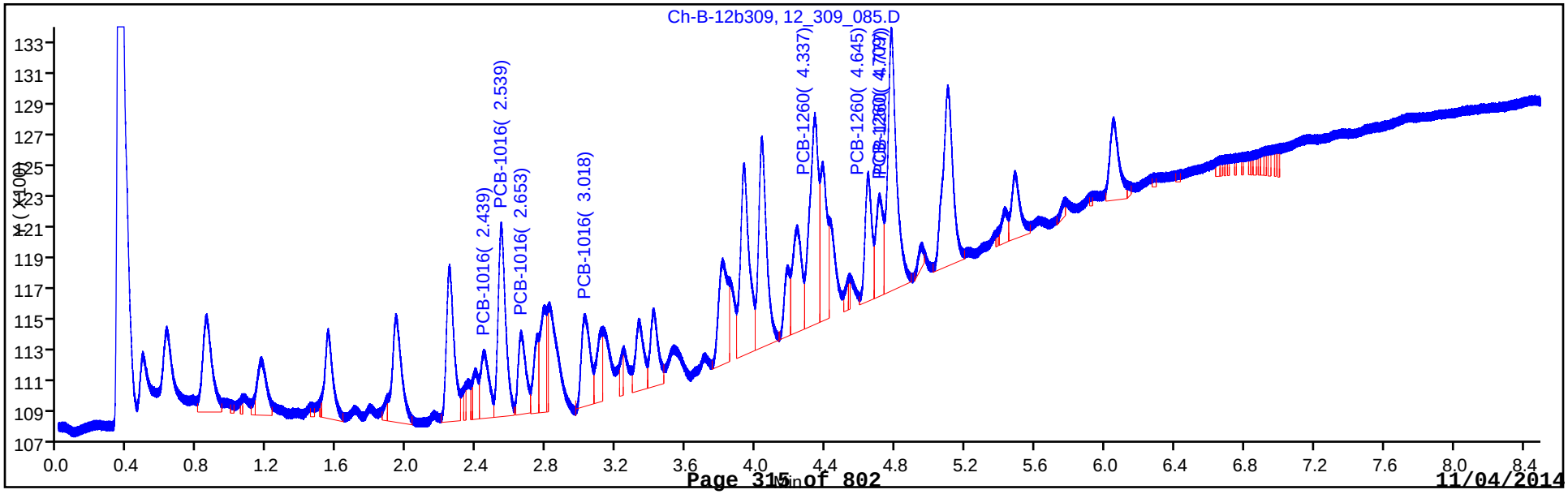
Data File: \\Bufchrom\ChromData\HP5890-12\20141002-35967.b\12_309_085.D

Injection Date:	02-Oct-2014 19:02:53	Instrument ID:	HP5890-12	Operator ID:	buftchrom
Lims ID:	STD1			Worklist Smp#:	7
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	hp12_pcb	Limit Group:	GC - 8082A PCB ICAL		

Column: ZB-5 (0.25 mm)



Column: ZB-35 (0.53 mm)



Manual Integration/User Assign Peak Report

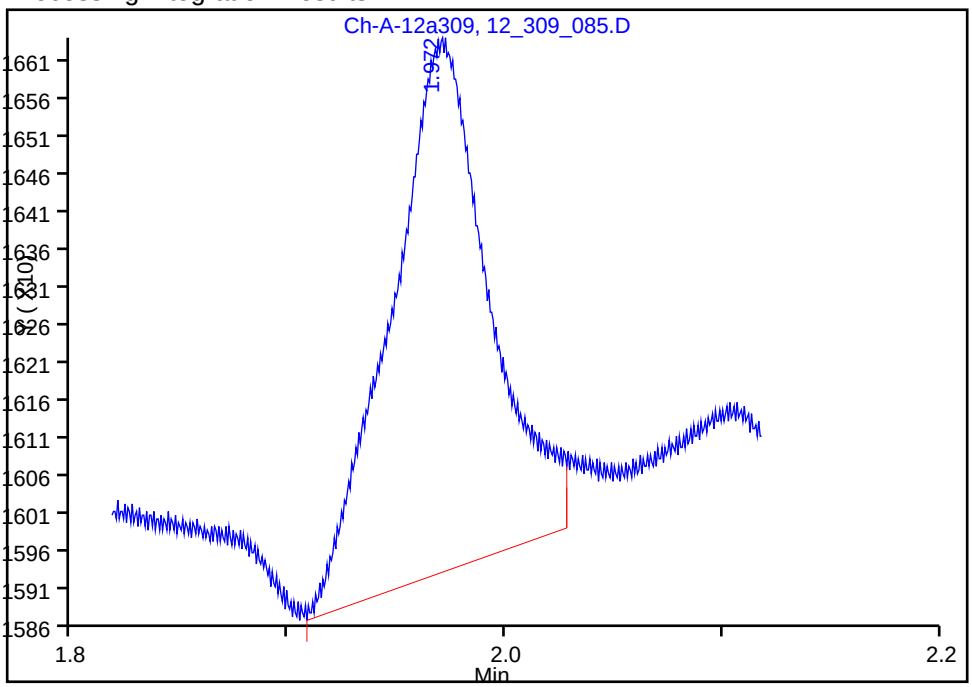
TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5890-12\20141002-35967.b\12_309_085.D
Injection Date: 02-Oct-2014 19:02:53 Instrument ID: HP5890-12
Lims ID: STD1
Client ID:
Operator ID: buftchrom ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: hp12_pcb Limit Group: GC - 8082A PCB ICAL
Column: ZB-5 (0.25 mm) Detector Ch-A-7A136

$ 3 Tetrachloro-m-xylene, CAS: 877-09-8

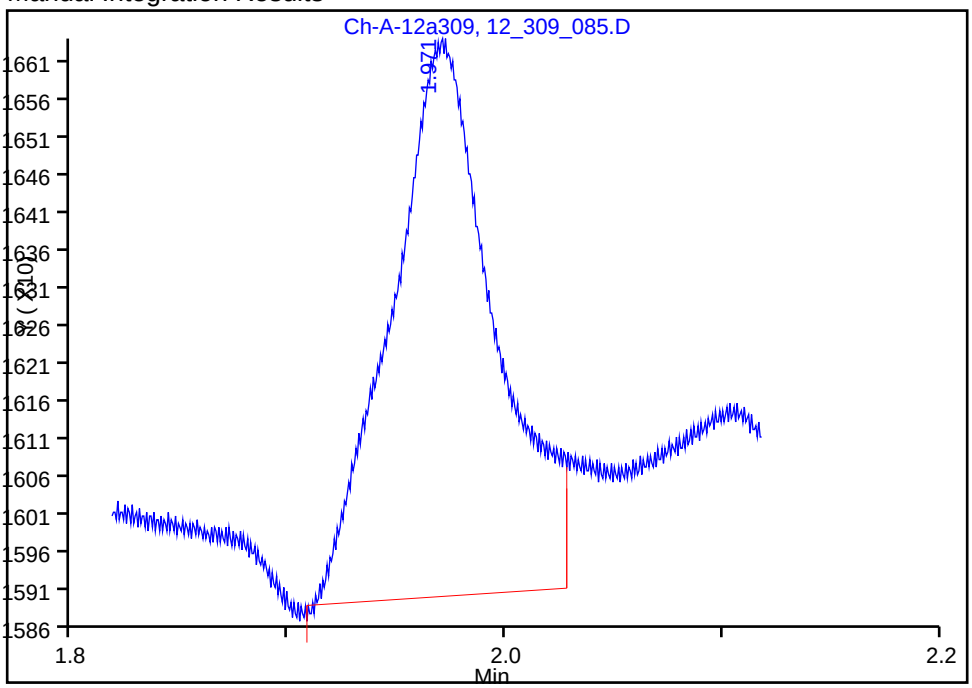
RT: 1.97
Response: 2245
Amount: 0.000545

Processing Integration Results



RT: 1.97
Response: 2454
Amount: 0.000607

Manual Integration Results



Reviewer: eversd, 02-Oct-2014 19:34:09
Audit Action: Assigned New Baseline
Audit Reason: Incomplete Integration

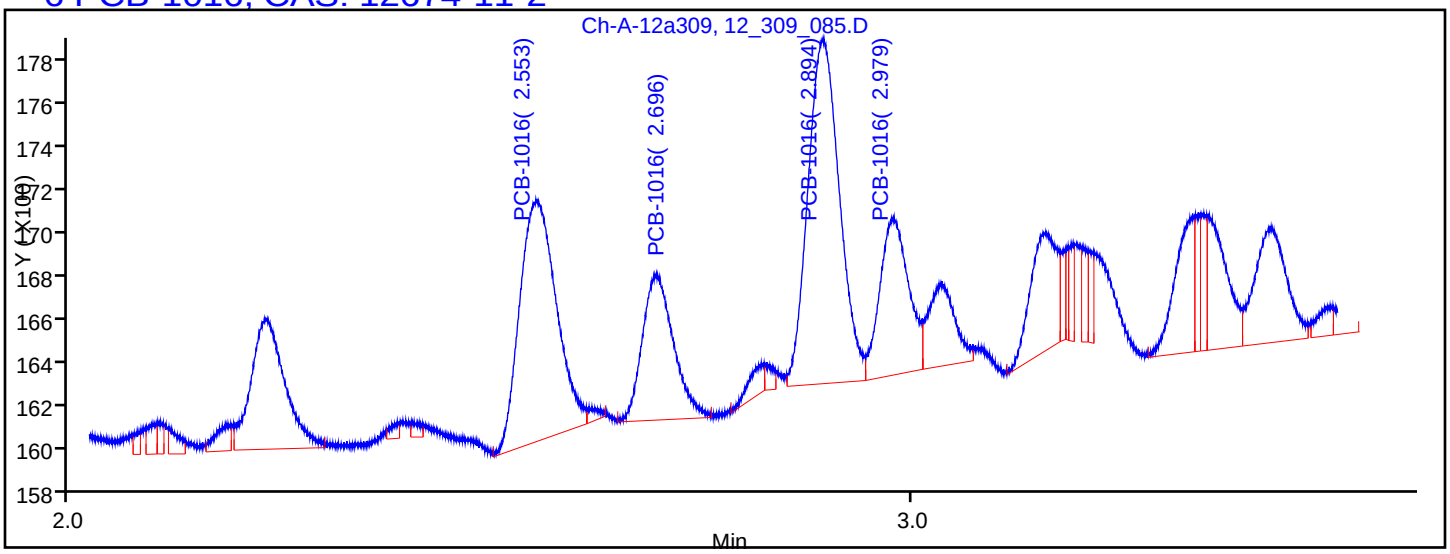
Report Date: 03-Oct-2014 09:17:14 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5890-12\20141002-35967.b\12_309_085.D

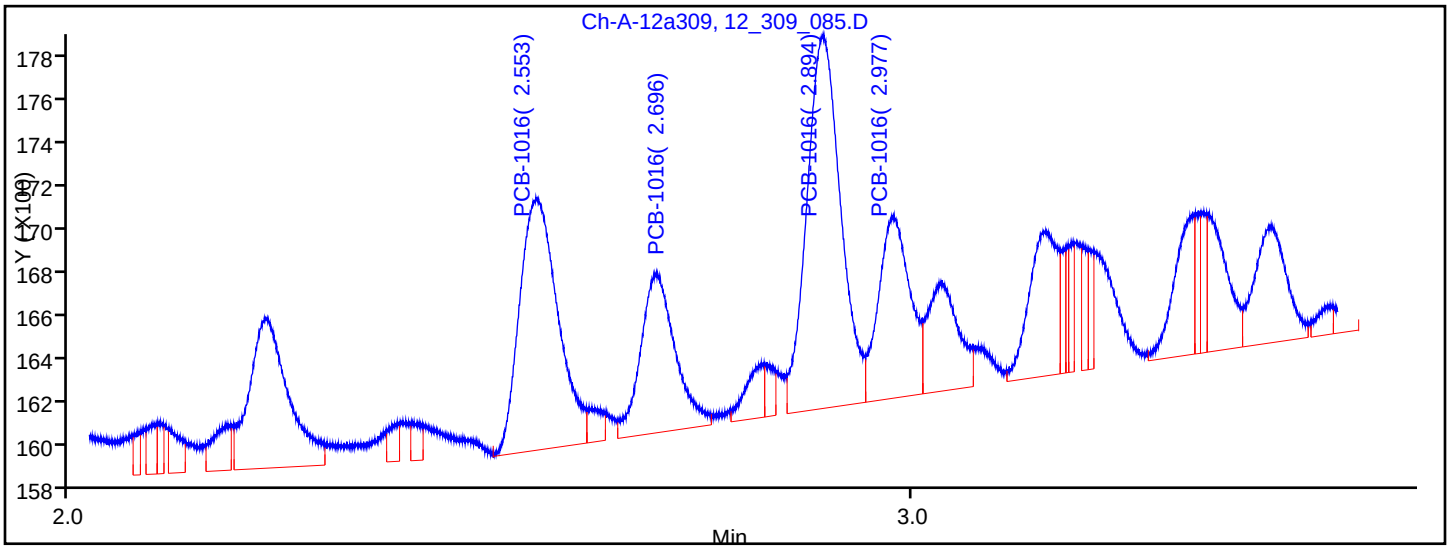
Injection Date:	02-Oct-2014 19:02:53	Instrument ID:	HP5890-12		
Lims ID:	STD1				
Client ID:					
Operator ID:	buftchrom	ALS Bottle#:	0	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	hp12_pcb	Limit Group:	GC - 8082A PCB ICAL		
Column:	ZB-5 (0.25 mm)	Detector	Ch-A-7A136		

6 PCB-1016, CAS: 12674-11-2



Processing Integration Results

RT = 2.553	Response = 3260	
RT = 2.696	Response = 1664	M
RT = 2.894	Response = 4004	M
RT = 2.979	Response = 1671	M



Manual Integration Results

RT = 2.553	Response = 3260	
RT = 2.696	Response = 2005	M
RT = 2.894	Response = 4609	M
RT = 2.977	Response = 2090	M

Reviewer: eversd, 02-Oct-2014 19:34:09
Audit Action: Assigned New Baseline
Audit Reason: Incomplete Integration

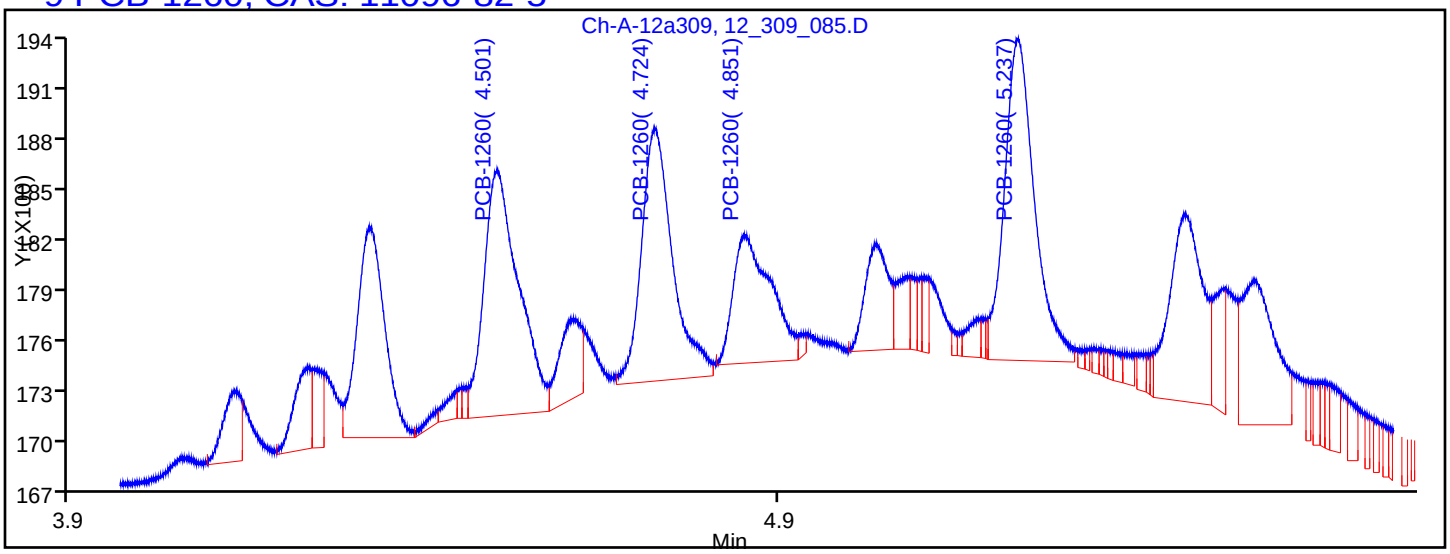
Report Date: 03-Oct-2014 09:17:14 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5890-12\20141002-35967.b\12_309_085.D

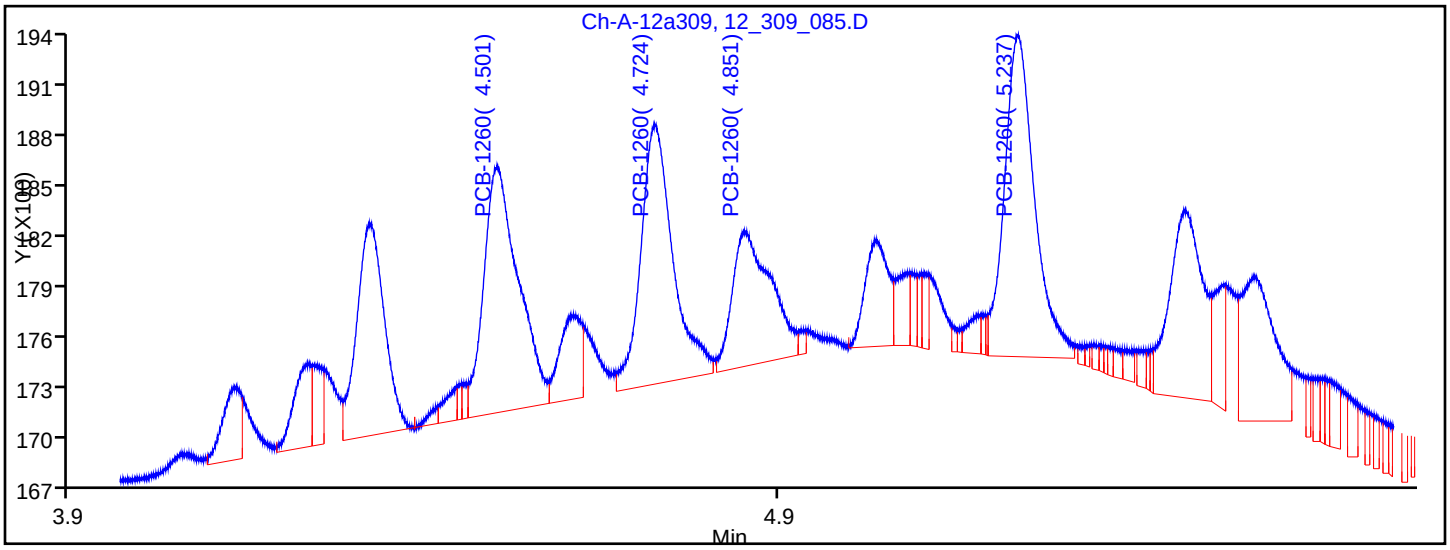
Injection Date:	02-Oct-2014 19:02:53	Instrument ID:	HP5890-12		
Lims ID:	STD1				
Client ID:					
Operator ID:	buftchrom	ALS Bottle#:	0	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	hp12_pcb	Limit Group:	GC - 8082A PCB ICAL		
Column:	ZB-5 (0.25 mm)	Detector	Ch-A-7A136		

9 PCB-1260, CAS: 11096-82-5



Processing Integration Results

RT = 4.501	Response = 4772	M
RT = 4.724	Response = 4396	
RT = 4.851	Response = 2711	M
RT = 5.237	Response = 5430	



Manual Integration Results

RT = 4.501	Response = 4754	M
RT = 4.724	Response = 4396	
RT = 4.851	Response = 2908	M
RT = 5.237	Response = 5430	

Reviewer: eversd, 02-Oct-2014 19:34:09
Audit Action: Assigned New Baseline
Audit Reason: Incomplete Integration

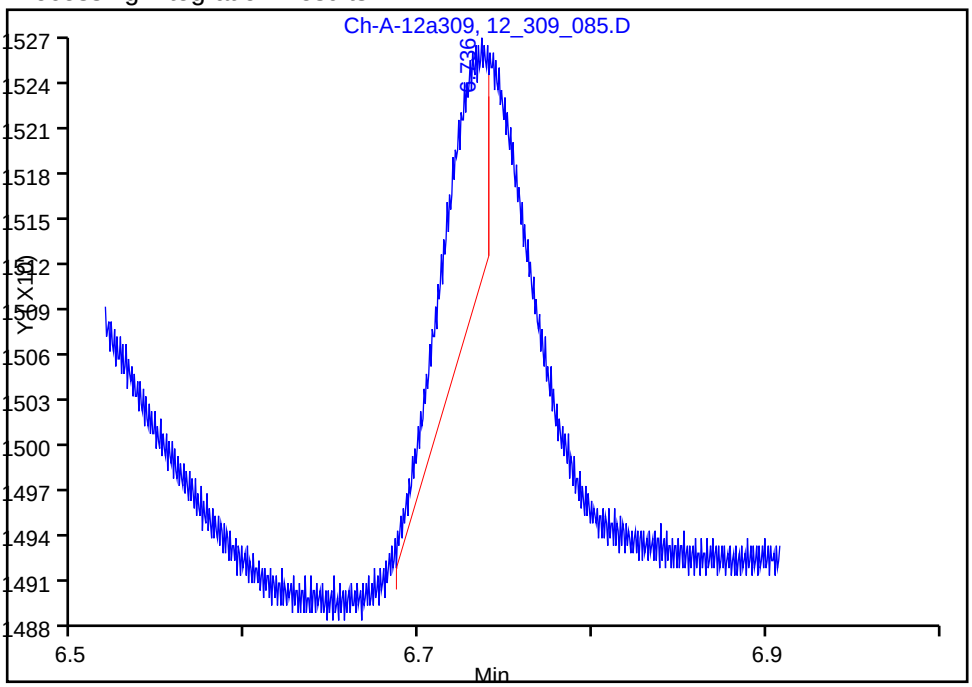
TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5890-12\20141002-35967.b\12_309_085.D
Injection Date: 02-Oct-2014 19:02:53 Instrument ID: HP5890-12
Lims ID: STD1
Client ID:
Operator ID: buftchrom ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: hp12_pcb Limit Group: GC - 8082A PCB ICAL
Column: ZB-5 (0.25 mm) Detector Ch-A-7A136

$ 12 DCB Decachlorobiphenyl, CAS: 2051-24-3

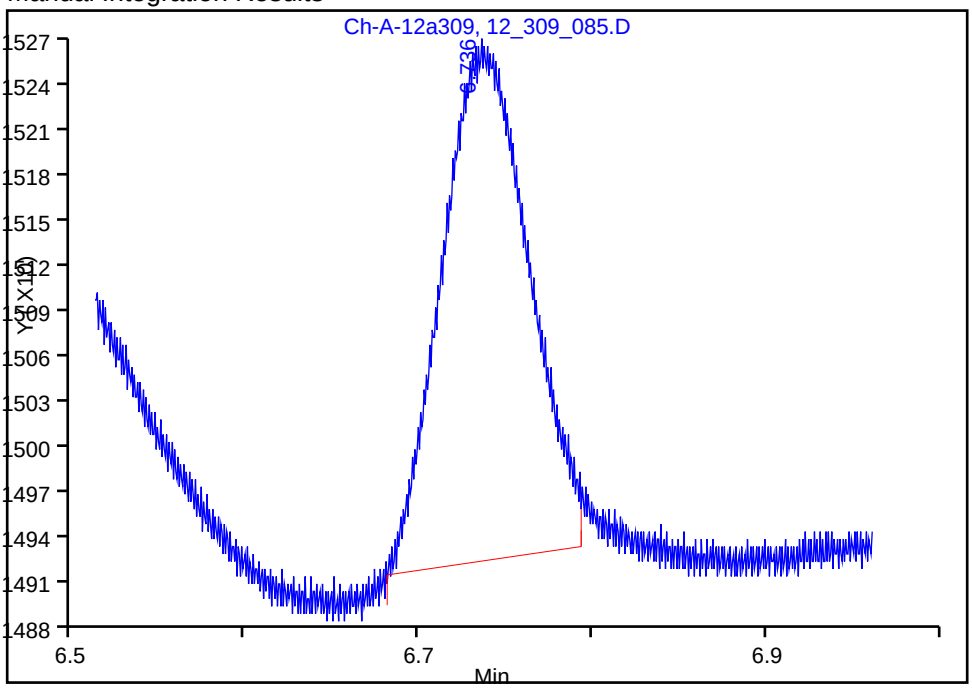
Processing Integration Results

RT: 6.74
Response: 301
Amount: -0.000685



Manual Integration Results

RT: 6.74
Response: 1201
Amount: 0.000498



Reviewer: eversd, 02-Oct-2014 19:34:09
Audit Action: Manually Integrated
Audit Reason: Incomplete Integration

FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-70101-1 Analy Batch No.: 205708

SDG No.:

Instrument ID: HP5890-12 GC Column: ZB-35 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/02/2014 17:33 Calibration End Date: 10/02/2014 19:02 Calibration ID: 20500

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 480-205708/7	12_309_085.D
Level 2	STD2 480-205708/6	12_309_084.D
Level 3	STD3 480-205708/5	12_309_083.D
Level 4	STD4 480-205708/4	12_309_082.D
Level 5	STD5 480-205708/3	12_309_081.D
Level 6	STD6 480-205708/2	12_309_080.D
Level 7	STD7 480-205708/1	12_309_079.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	LVL 7				RT WINDOW	AVG RT
PCB-1016 Peak 1	2.439	2.443	2.443	2.442	2.442	2.440	2.439				2.413 - 2.473	2.441
PCB-1016 Peak 2	2.539	2.539	2.540	2.539	2.538	2.535	2.535				2.510 - 2.570	2.538
PCB-1016 Peak 3	2.653	2.654	2.655	2.653	2.653	2.650	2.649				2.625 - 2.685	2.652
PCB-1016 Peak 4	3.018	3.019	3.017	3.017	3.015	3.013	3.011				2.987 - 3.047	3.016
PCB-1260 Peak 1	4.337	4.339	4.338	4.335	4.336	4.334	4.334				4.308 - 4.368	4.336
PCB-1260 Peak 2	4.645	4.645	4.644	4.643	4.642	4.640	4.639				4.614 - 4.674	4.643
PCB-1260 Peak 3	4.709	4.709	4.709	4.708	4.709	4.706	4.705				4.679 - 4.739	4.708
PCB-1260 Peak 4	4.777	4.777	4.777	4.775	4.774	4.772	4.772				4.747 - 4.807	4.775
Tetrachloro-m-xylene	1.549	1.551	1.551	1.549	1.551	1.548	1.547				1.521 - 1.581	1.549
DCB Decachlorobiphenyl	6.054	6.052	6.050	6.048	6.049	6.048	6.046				6.020 - 6.080	6.050

FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-70101-1 Analy Batch No.: 205708

SDG No.:

Instrument ID: HP5890-12 GC Column: ZB-35 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/02/2014 17:33 Calibration End Date: 10/02/2014 19:02 Calibration ID: 20500

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 480-205708/7	12_309_085.D
Level 2	STD2 480-205708/6	12_309_084.D
Level 3	STD3 480-205708/5	12_309_083.D
Level 4	STD4 480-205708/4	12_309_082.D
Level 5	STD5 480-205708/3	12_309_081.D
Level 6	STD6 480-205708/2	12_309_080.D
Level 7	STD7 480-205708/1	12_309_079.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2 LVL 6	LVL 3 LVL 7	LVL 4		B	M1	M2								
PCB-1016 Peak 1	70600 64564	71280 61659	71400 57105	69305	Ave		66559.0000				8.4		20.0			
PCB-1016 Peak 2	183850 166486	182280 160627	178390 155022	171285	Ave		171134.286				6.4		20.0			
PCB-1016 Peak 3	79050 74946	83920 70831	82020 67006	77790	Ave		76508.9286				7.9		20.0			
PCB-1016 Peak 4	100300 87288	93080 83244	94950 78362	90625	Ave		89692.6429				8.2		20.0			
PCB-1260 Peak 1	236000 196928	233400 187503	220860 178347	212055	Ave		209298.929				11.0		20.0			
PCB-1260 Peak 2	109500 88610	106680 83154	98020 79758	94485	Ave		94315.2143				12.0		20.0			
PCB-1260 Peak 3	89650 77346	86100 73671	87630 69581	83745	Ave		81103.2857				9.4		20.0			
PCB-1260 Peak 4	277400 209302	249620 197850	244660 187688	229755	Ave		228039.286				14.0		20.0			
Tetrachloro-m-xylene	3568000 1932400	2456000 1973560	1950400 2056420	1999200	Lin	-193.58449	2040269.68							0.9990		0.9900
DCB Decachlorobiphenyl	3762000 2699600	3367200 2503520	3142000 2311960	2971400	Ave		2965382.86				17.0		20.0			

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

FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-70101-1 Analy Batch No.: 205708

SDG No.:

Instrument ID: HP5890-12 GC Column: ZB-35 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/02/2014 17:33 Calibration End Date: 10/02/2014 19:02 Calibration ID: 20500

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 480-205708/7	12_309_085.D
Level 2	STD2 480-205708/6	12_309_084.D
Level 3	STD3 480-205708/5	12_309_083.D
Level 4	STD4 480-205708/4	12_309_082.D
Level 5	STD5 480-205708/3	12_309_081.D
Level 6	STD6 480-205708/2	12_309_080.D
Level 7	STD7 480-205708/1	12_309_079.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
		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
PCB-1016 Peak 1	Ave	1412 61659	3564 114210	7140	13861	32282	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1016 Peak 2	Ave	3677 160627	9114 310044	17839	34257	83243	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1016 Peak 3	Ave	1581 70831	4196 134011	8202	15558	37473	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1016 Peak 4	Ave	2006 83244	4654 156723	9495	18125	43644	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1260 Peak 1	Ave	4720 187503	11670 356693	22086	42411	98464	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1260 Peak 2	Ave	2190 83154	5334 159515	9802	18897	44305	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1260 Peak 3	Ave	1793 73671	4305 139162	8763	16749	38673	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1260 Peak 4	Ave	5548 197850	12481 375376	24466	45951	104651	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
Tetrachloro-m-xylene	Lin	1784 49339	3070 102821	4876	9996	24155	0.000500 0.0250	0.00125 0.0500	0.00250	0.00500	0.0125
DCB Decachlorobiphenyl	Ave	1881 62588	4209 115598	7855	14857	33745	0.000500 0.0250	0.00125 0.0500	0.00250	0.00500	0.0125

Curve Type Legend:

Ave = Average
Lin = Linear

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5890-12\20141002-35967.b\12_309_079.D
Lims ID: STD7
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 02-Oct-2014 17:33:37 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: buftchrom Instrument ID: HP5890-12
Sublist: chrom-hp12_pcb*sub1

Method: \\Bufchrom\ChromData\HP5890-12\20141002-35967.b\hp12_pcb.m
Limit Group: GC - 8082A PCB ICAL
Last Update: 03-Oct-2014 09:16:53 Calib Date: 03-Oct-2014 08:06:59
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5890-12\20141002-35967.b\12_309_108.D

Column 1 : ZB-5 (0.25 mm) Det: Ch-A-7A136
Column 2 : ZB-35 (0.53 mm) Det: Ch-B-7b136
Process Host: XAWRK023

First Level Reviewer: eversd Date: 02-Oct-2014 19:36:39

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
$ 3 Tetrachloro-m-xylene							
1	1.970	1.971	-0.001	131562	0.0500	0.0502	
2	1.547	1.551	-0.004	102821	0.0500	0.0505	
						RPD = 0.58	
6 PCB-1016							
1	2.549	2.552	-0.003	203323	2.00	1.58	
1	2.693	2.695	-0.002	125788	2.00	1.66	
1	2.891	2.893	-0.002	363114	2.00	1.75	
1	2.975	2.977	-0.002	149219	2.00	1.69	
		Average of Peak Amounts =				1.67	
2	2.439	2.443	-0.004	114210	2.00	1.72	
2	2.535	2.540	-0.005	310044	2.00	1.81	
2	2.649	2.655	-0.006	134011	2.00	1.75	
2	3.011	3.017	-0.006	156723	2.00	1.75	
		Average of Peak Amounts =				1.76	
						RPD = 5.11	
9 PCB-1260							
1	4.497	4.500	-0.003	406069	2.00	1.74	
1	4.721	4.723	-0.002	393010	2.00	1.79	
1	4.847	4.851	-0.004	261064	2.00	1.74	
1	5.233	5.237	-0.004	382708	2.00	1.63	
		Average of Peak Amounts =				1.72	
2	4.334	4.338	-0.004	356693	2.00	1.70	
2	4.639	4.644	-0.005	159515	2.00	1.69	
2	4.705	4.709	-0.004	139162	2.00	1.72	
2	4.772	4.777	-0.005	375376	2.00	1.65	
		Average of Peak Amounts =				1.69	
						RPD = 2.05	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
$ 12 DCB Decachlorobiphenyl							
1	6.733	6.736	-0.003	102196	0.0500	0.0424	
2	6.046	6.050	-0.004	115598	0.0500	0.0390	
						RPD =	8.40

Reagents:

AR1660 2.0ng_00003 Amount Added: 1.00 Units: mL

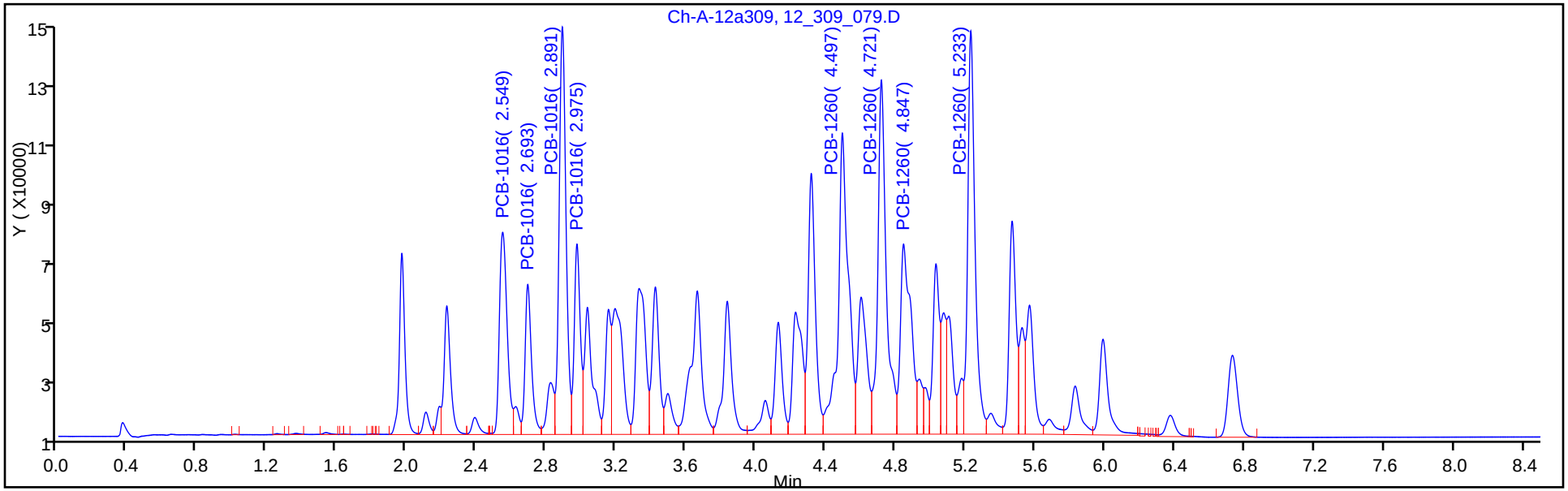
Report Date: 03-Oct-2014 09:16:54 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Buffalo

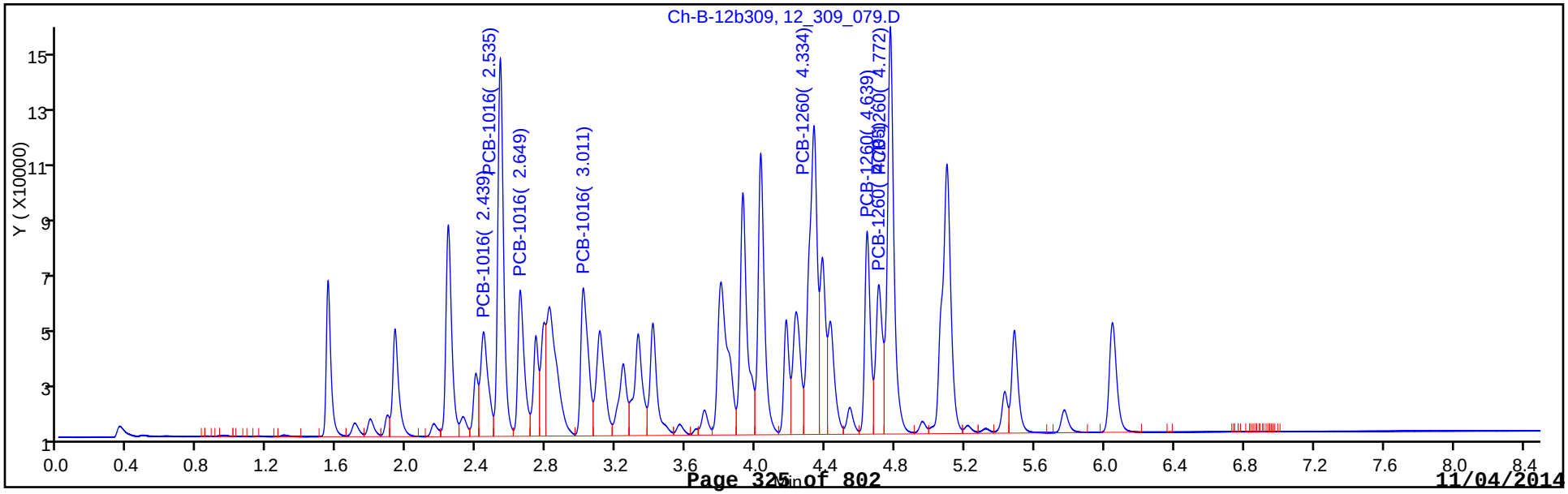
Data File: \\Bufchrom\ChromData\HP5890-12\20141002-35967.b\12_309_079.D

Injection Date:	02-Oct-2014 17:33:37	Instrument ID:	HP5890-12	Operator ID:	buftchrom
Lims ID:	STD7			Worklist Smp#:	1
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	hp12_pcb	Limit Group:	GC - 8082A PCB ICAL		

Column: ZB-5 (0.25 mm)



Column: ZB-35 (0.53 mm)



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5890-12\20141002-35967.b\12_309_080.D
Lims ID: STD6
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 02-Oct-2014 17:48:29 ALS Bottle#: 0 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: buftchrom Instrument ID: HP5890-12
Sublist: chrom-hp12_pcb*sub1

Method: \\Bufchrom\ChromData\HP5890-12\20141002-35967.b\hp12_pcb.m
Limit Group: GC - 8082A PCB ICAL
Last Update: 03-Oct-2014 09:16:55 Calib Date: 03-Oct-2014 08:06:59
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5890-12\20141002-35967.b\12_309_108.D

Column 1 : ZB-5 (0.25 mm) Det: Ch-A-7A136
Column 2 : ZB-35 (0.53 mm) Det: Ch-B-7b136
Process Host: XAWRK023

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
$ 3 Tetrachloro-m-xylene							
1	1.971	1.971	0.000	65000	0.0250	0.0246	
2	1.548	1.551	-0.003	49339	0.0250	0.0243	
						RPD = 1.45	
6 PCB-1016							
1	2.549	2.552	-0.003	109536	1.00	0.8492	
1	2.693	2.695	-0.002	66356	1.00	0.8747	
1	2.891	2.893	-0.002	189860	1.00	0.9165	
1	2.975	2.977	-0.002	78749	1.00	0.8915	
		Average of Peak Amounts =				0.8830	
2	2.440	2.443	-0.003	61659	1.00	0.9264	
2	2.535	2.540	-0.005	160627	1.00	0.9386	
2	2.650	2.655	-0.005	70831	1.00	0.9258	
2	3.013	3.017	-0.004	83244	1.00	0.9281	
		Average of Peak Amounts =				0.9297	
						RPD = 5.15	
9 PCB-1260							
1	4.497	4.500	-0.003	221105	1.00	0.9482	
1	4.721	4.723	-0.002	210246	1.00	0.9567	
1	4.848	4.851	-0.003	142877	1.00	0.9522	
1	5.234	5.237	-0.003	206677	1.00	0.8793	
		Average of Peak Amounts =				0.9341	
2	4.334	4.338	-0.004	187503	1.00	0.8959	
2	4.640	4.644	-0.004	83154	1.00	0.8817	
2	4.706	4.709	-0.003	73671	1.00	0.9084	
2	4.772	4.777	-0.005	197850	1.00	0.8676	
		Average of Peak Amounts =				0.8884	
						RPD = 5.02	
$ 12 DCB Decachlorobiphenyl							
1	6.734	6.736	-0.002	54894	0.0250	0.0228	
2	6.048	6.050	-0.002	62588	0.0250	0.0211	
						RPD = 7.61	

Reagents:

AR1660 2.0ng_00003 Amount Added: 0.50 Units: mL

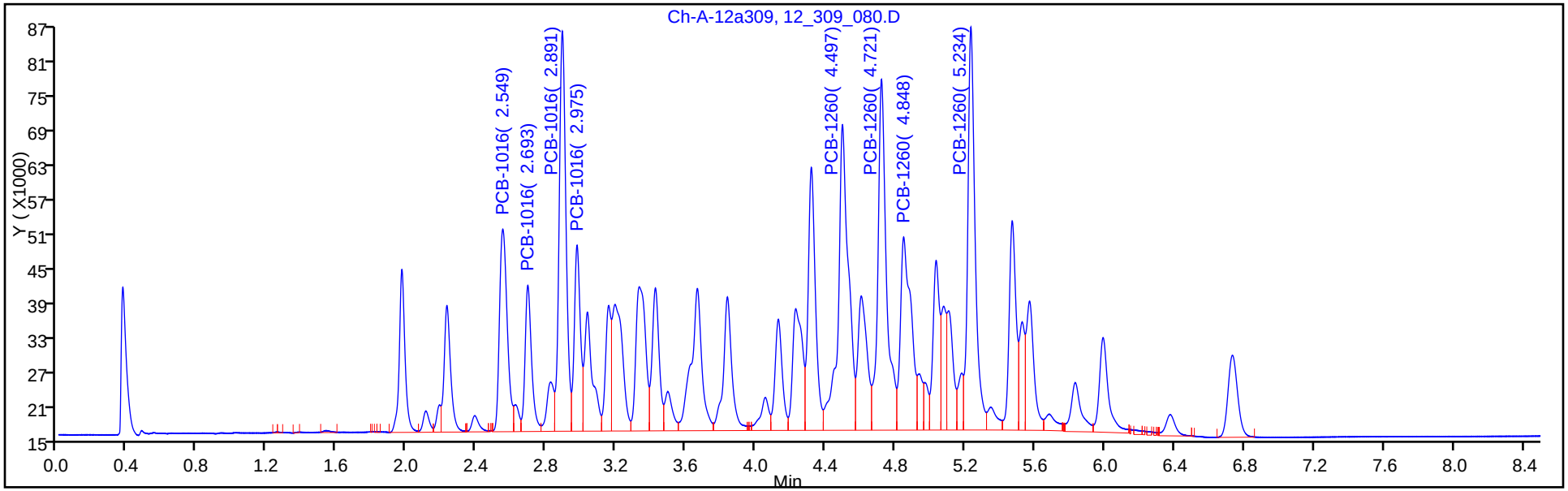
Report Date: 03-Oct-2014 09:16:56 Chrom Revision: 2.2 18-Aug-2014 12:17:36

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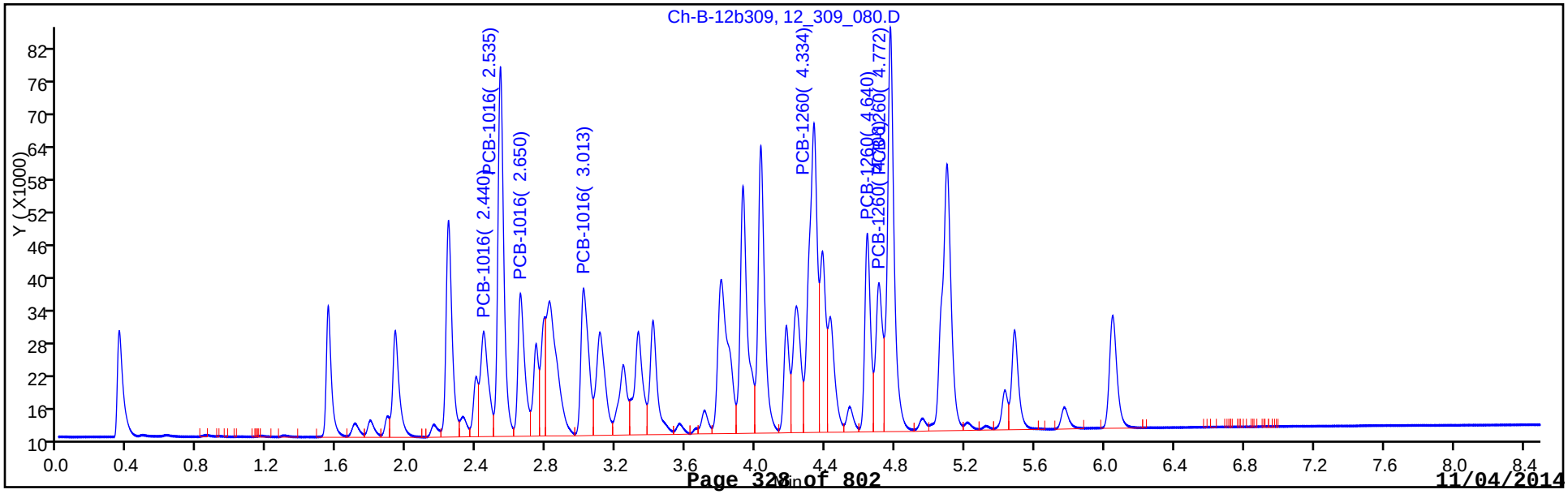
Data File: \\Bufchrom\ChromData\HP5890-12\20141002-35967.b\12_309_080.D

Injection Date:	02-Oct-2014 17:48:29	Instrument ID:	HP5890-12	Operator ID:	buftchrom
Lims ID:	STD6			Worklist Smp#:	2
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	hp12_pcb	Limit Group:	GC - 8082A PCB ICAL		

Column: ZB-5 (0.25 mm)



Column: ZB-35 (0.53 mm)



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5890-12\20141002-35967.b\12_309_081.D
Lims ID: STD5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 02-Oct-2014 18:03:20 ALS Bottle#: 0 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: buftchrom Instrument ID: HP5890-12
Sublist: chrom-hp12_pcb*sub1

Method: \\Bufchrom\ChromData\HP5890-12\20141002-35967.b\hp12_pcb.m
Limit Group: GC - 8082A PCB ICAL
Last Update: 03-Oct-2014 09:16:57 Calib Date: 03-Oct-2014 08:06:59
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5890-12\20141002-35967.b\12_309_108.D

Column 1 : ZB-5 (0.25 mm) Det: Ch-A-7A136
Column 2 : ZB-35 (0.53 mm) Det: Ch-B-7b136
Process Host: XAWRK023

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
$ 3 Tetrachloro-m-xylene							
1	1.971	1.971	0.000	33145	0.0125	0.0124	
2	1.551	1.551	0.000	24155	0.0125	0.0119	
						RPD = 3.80	
6 PCB-1016							
1	2.551	2.552	-0.001	59998	0.5000	0.4651	
1	2.694	2.695	-0.001	35779	0.5000	0.4716	
1	2.892	2.893	-0.001	100065	0.5000	0.4831	
1	2.976	2.977	-0.001	42256	0.5000	0.4784	
		Average of Peak Amounts =				0.4746	
2	2.442	2.443	-0.001	32282	0.5000	0.4850	
2	2.538	2.540	-0.002	83243	0.5000	0.4864	
2	2.653	2.655	-0.002	37473	0.5000	0.4898	
2	3.015	3.017	-0.002	43644	0.5000	0.4866	
		Average of Peak Amounts =				0.4870	
						RPD = 2.58	
9 PCB-1260							
1	4.499	4.500	-0.001	124831	0.5000	0.5353	
1	4.722	4.723	-0.001	116557	0.5000	0.5304	
1	4.849	4.851	-0.002	80990	0.5000	0.5397	
1	5.235	5.237	-0.002	114721	0.5000	0.4880	
		Average of Peak Amounts =				0.5234	
2	4.336	4.338	-0.002	98464	0.5000	0.4704	
2	4.642	4.644	-0.002	44305	0.5000	0.4698	
2	4.709	4.709	0.000	38673	0.5000	0.4768	
2	4.774	4.777	-0.003	104651	0.5000	0.4589	
		Average of Peak Amounts =				0.4690	
						RPD = 10.96	
$ 12 DCB Decachlorobiphenyl							
1	6.735	6.736	-0.001	29348	0.0125	0.0122	
2	6.049	6.050	-0.001	33745	0.0125	0.0114	
						RPD = 6.77	

Reagents:

AR1660 2.0ng_00003 Amount Added: 0.25 Units: mL

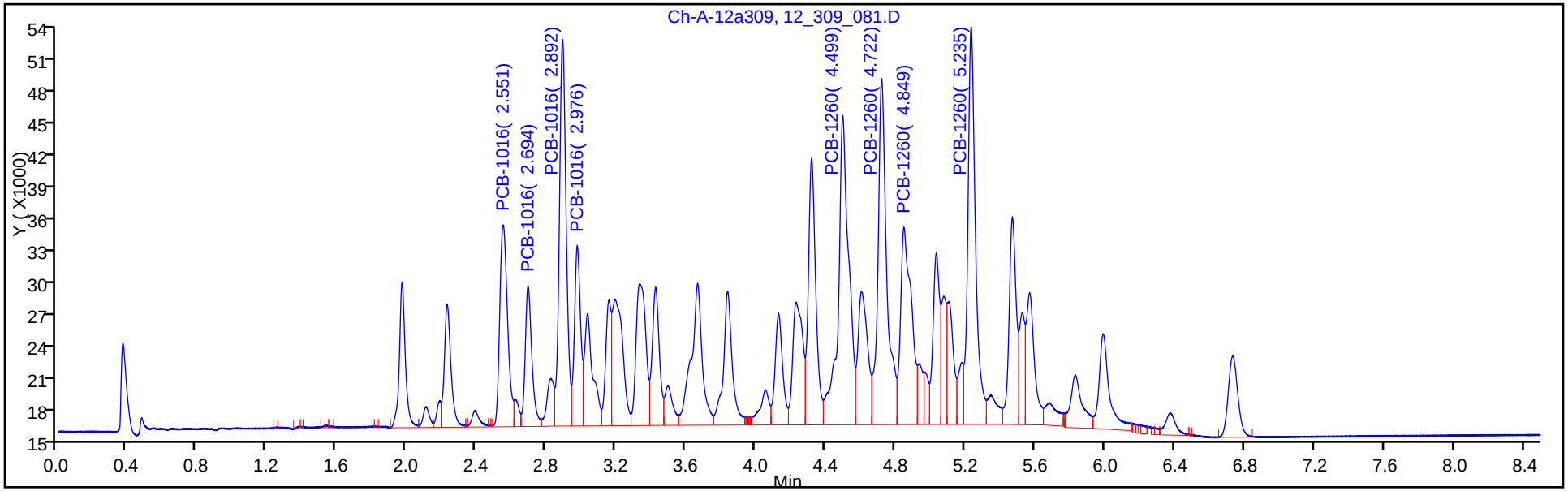
Report Date: 03-Oct-2014 09:16:58 Chrom Revision: 2.2 18-Aug-2014 12:17:36

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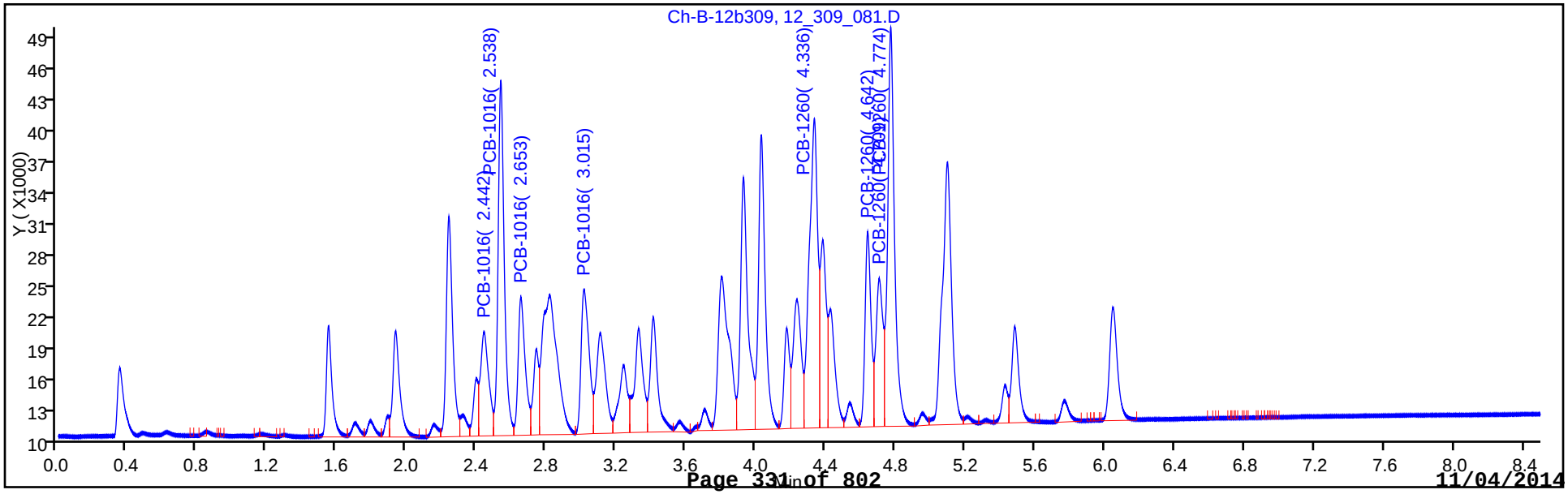
Data File: \\Bufchrom\ChromData\HP5890-12\20141002-35967.b\12_309_081.D

Injection Date:	02-Oct-2014 18:03:20	Instrument ID:	HP5890-12	Operator ID:	buftchrom
Lims ID:	STD5			Worklist Smp#:	3
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	hp12_pcb	Limit Group:	GC - 8082A PCB ICAL		

Column: ZB-5 (0.25 mm)



Column: ZB-35 (0.53 mm)



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5890-12\20141002-35967.b\12_309_082.D
Lims ID: STD4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 02-Oct-2014 18:18:15 ALS Bottle#: 0 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: buftchrom Instrument ID: HP5890-12
Sublist: chrom-hp12_pcb*sub1

Method: \\Bufchrom\ChromData\HP5890-12\20141002-35967.b\hp12_pcb.m
Limit Group: GC - 8082A PCB ICAL
Last Update: 03-Oct-2014 09:16:59 Calib Date: 03-Oct-2014 08:06:59
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5890-12\20141002-35967.b\12_309_108.D

Column 1 : ZB-5 (0.25 mm) Det: Ch-A-7A136
Column 2 : ZB-35 (0.53 mm) Det: Ch-B-7b136
Process Host: XAWRK023

First Level Reviewer: eversd Date: 02-Oct-2014 19:30:29

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
$ 3 Tetrachloro-m-xylene							
1	1.971	1.971	0.000	14135	0.005000	0.005094	
2	1.549	1.551	-0.002	9996	0.005000	0.004994	
						RPD = 1.98	
6 PCB-1016							M
1	2.553	2.552	0.001	25885	0.2000	0.2007	M
1	2.694	2.695	-0.001	14177	0.2000	0.1869	M
1	2.893	2.893	0.000	41410	0.2000	0.1999	M
1	2.976	2.977	-0.001	17565	0.2000	0.1989	M
		Average of Peak Amounts =				0.1966	
2	2.442	2.443	-0.001	13861	0.2000	0.2083	M
2	2.539	2.540	-0.001	34257	0.2000	0.2002	M
2	2.653	2.655	-0.002	15558	0.2000	0.2033	M
2	3.017	3.017	0.000	18125	0.2000	0.2021	M
		Average of Peak Amounts =				0.2035	
						RPD = 3.44	
9 PCB-1260							M
1	4.499	4.500	-0.001	50174	0.2000	0.2152	M
1	4.722	4.723	-0.001	46573	0.2000	0.2119	M
1	4.850	4.851	-0.001	32277	0.2000	0.2151	M
1	5.236	5.237	-0.001	45384	0.2000	0.1931	M
		Average of Peak Amounts =				0.2088	
2	4.335	4.338	-0.003	42411	0.2000	0.2026	M
2	4.643	4.644	-0.001	18897	0.2000	0.2004	M
2	4.708	4.709	-0.001	16749	0.2000	0.2065	M
2	4.775	4.777	-0.002	45951	0.2000	0.2015	M
		Average of Peak Amounts =				0.2028	
						RPD = 2.95	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
$ 12 DCB Decachlorobiphenyl							
1	6.737	6.736	0.001	12851	0.005000	0.005332	
2	6.048	6.050	-0.002	14857	0.005000	0.005010	
						RPD = 6.22	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

AR1660 2.0ng_00003 Amount Added: 0.10 Units: mL

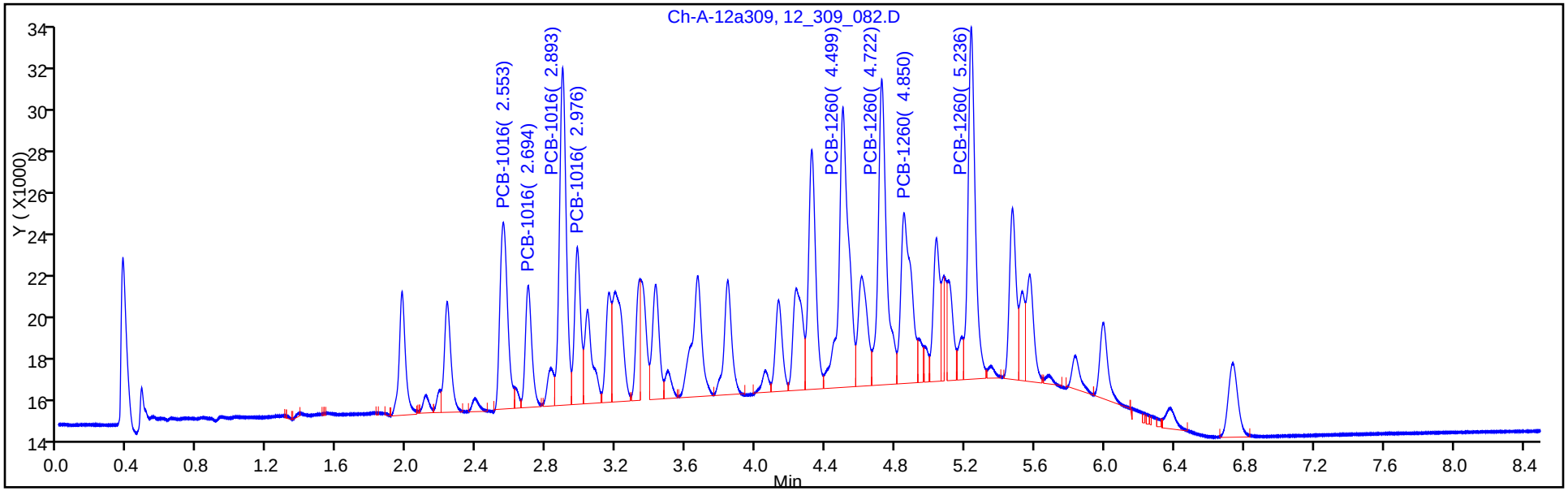
Report Date: 03-Oct-2014 09:17:06 Chrom Revision: 2.2 18-Aug-2014 12:17:36

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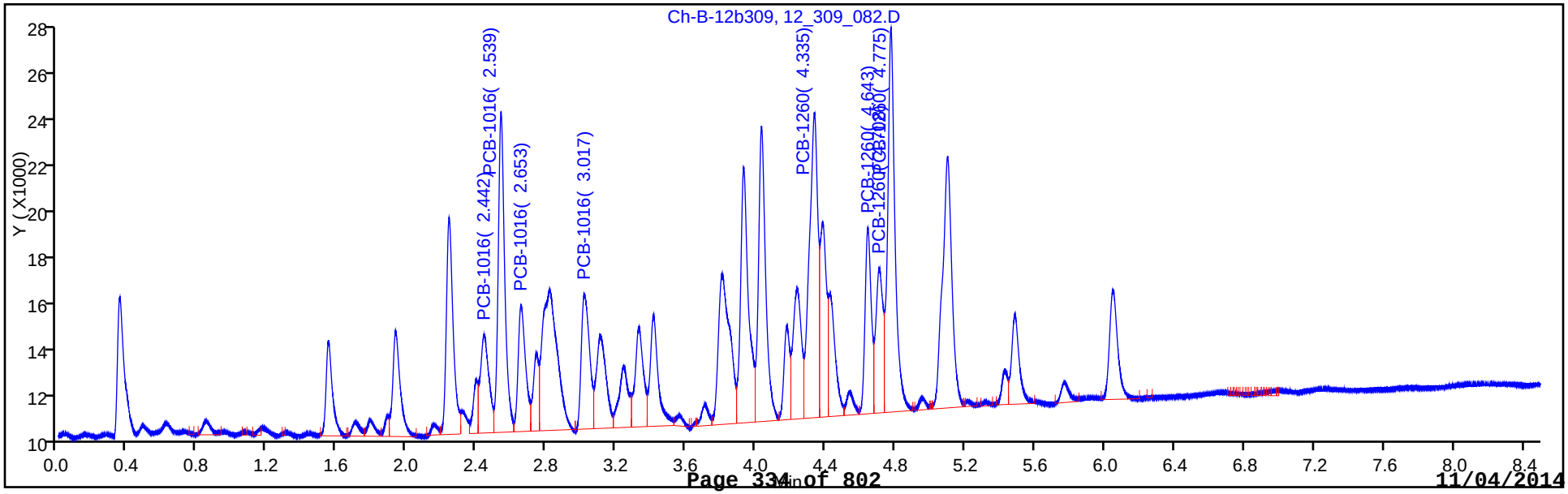
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Injection Date:	02-Oct-2014 18:18:15	Instrument ID:	HP5890-12	Operator ID:	buftchrom
Lims ID:	STD4			Worklist Smp#:	4
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	hp12_pcb	Limit Group:	GC - 8082A PCB ICAL		

Column: ZB-5 (0.25 mm)



Column: ZB-35 (0.53 mm)



Report Date: 03-Oct-2014 09:17:06 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5890-12\20141002-35967.b\12_309_082.D

Injection Date: 02-Oct-2014 18:18:15 Instrument ID: HP5890-12

Lims ID: STD4

Client ID:

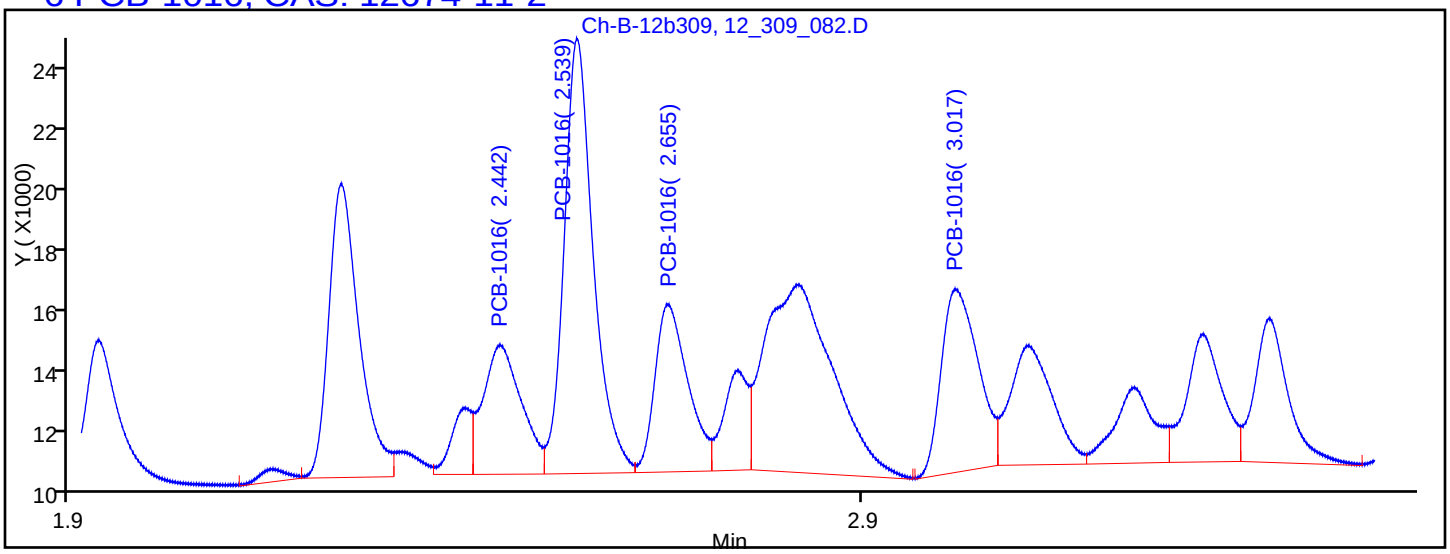
Operator ID: buftchrom ALS Bottle#: 0 Worklist Smp#: 4

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: hp12_pcb Limit Group: GC - 8082A PCB ICAL

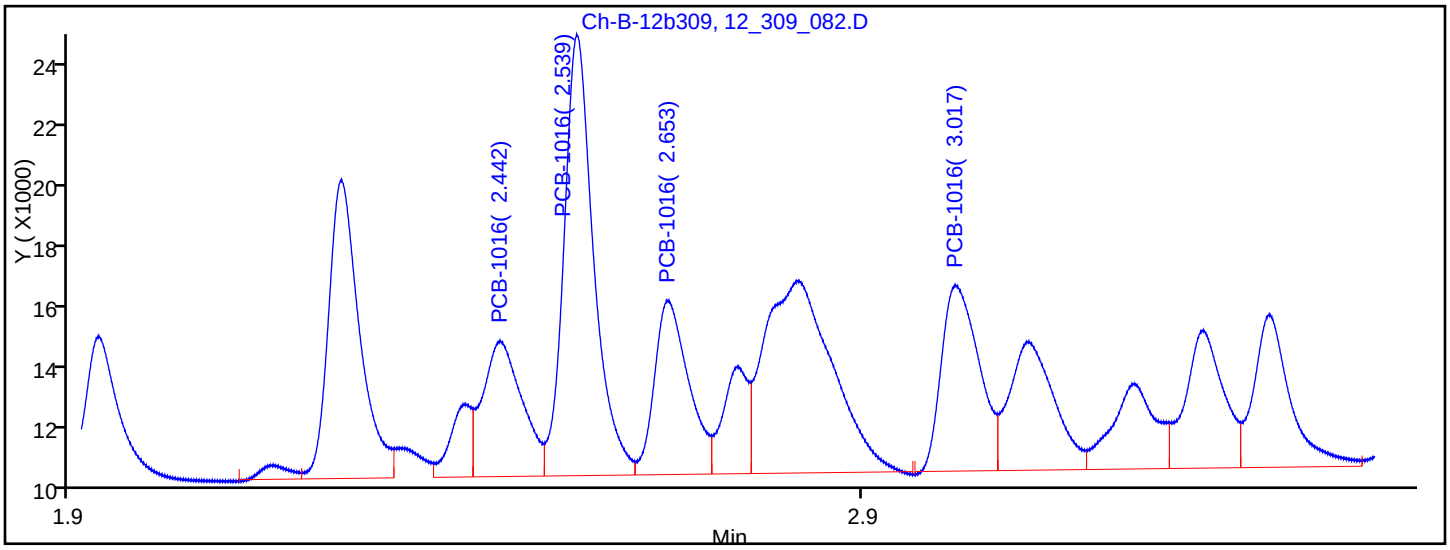
Column: ZB-35 (0.53 mm) Detector Ch-B-7b136

6 PCB-1016, CAS: 12674-11-2



Processing Integration Results

RT = 2.442	Response = 12902	M
RT = 2.539	Response = 33049	M
RT = 2.655	Response = 14453	M
RT = 3.017	Response = 17648	M



Manual Integration Results

RT = 2.442	Response = 13861	M
RT = 2.539	Response = 34257	M
RT = 2.653	Response = 15558	M
RT = 3.017	Response = 18125	M

Reviewer: eversd, 02-Oct-2014 19:30:29

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

Report Date: 03-Oct-2014 09:17:06 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5890-12\20141002-35967.b\12_309_082.D

Injection Date: 02-Oct-2014 18:18:15 Instrument ID: HP5890-12

Lims ID: STD4

Client ID:

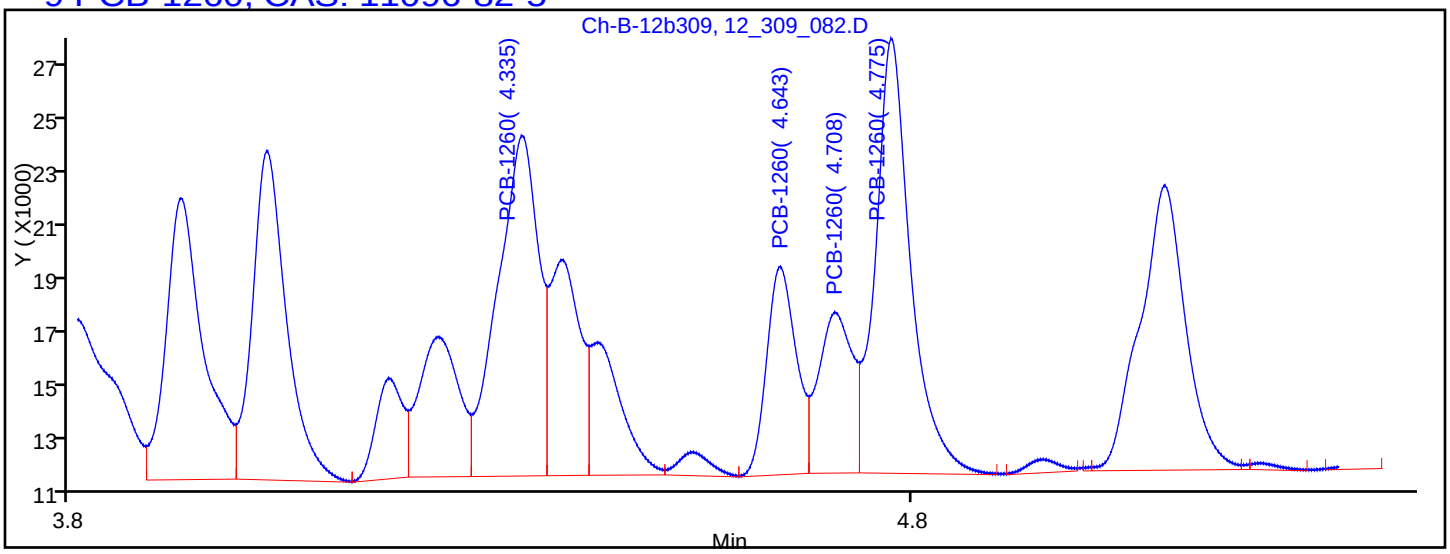
Operator ID: buftchrom ALS Bottle#: 0 Worklist Smp#: 4

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: hp12_pcb Limit Group: GC - 8082A PCB ICAL

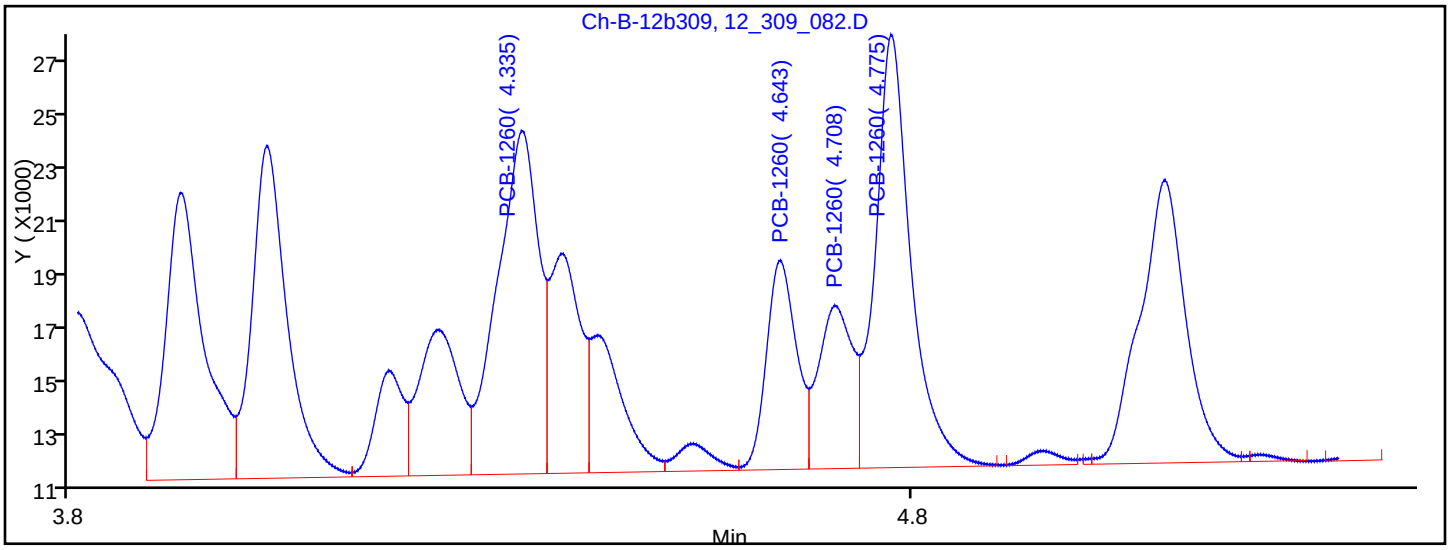
Column: ZB-35 (0.53 mm) Detector Ch-B-7b136

9 PCB-1260, CAS: 11096-82-5



Processing Integration Results

RT = 4.335	Response = 41093	M
RT = 4.643	Response = 18310	M
RT = 4.708	Response = 16200	M
RT = 4.775	Response = 45265	M



Manual Integration Results

RT = 4.335	Response = 42411	M
RT = 4.643	Response = 18897	M
RT = 4.708	Response = 16749	M
RT = 4.775	Response = 45951	M

Reviewer: eversd, 02-Oct-2014 19:30:29

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5890-12\20141002-35967.b\12_309_083.D
Lims ID: STD3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 02-Oct-2014 18:33:08 ALS Bottle#: 0 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: buftchrom Instrument ID: HP5890-12
Sublist: chrom-hp12_pcb*sub1

Method: \\Bufchrom\ChromData\HP5890-12\20141002-35967.b\hp12_pcb.m
Limit Group: GC - 8082A PCB ICAL
Last Update: 03-Oct-2014 09:17:08 Calib Date: 03-Oct-2014 08:06:59
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5890-12\20141002-35967.b\12_309_108.D

Column 1 : ZB-5 (0.25 mm) Det: Ch-A-7A136
Column 2 : ZB-35 (0.53 mm) Det: Ch-B-7b136
Process Host: XAWRK023

First Level Reviewer: eversd Date: 02-Oct-2014 19:31:12

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
$ 3 Tetrachloro-m-xylene							
1	1.971	1.971	0.000	7257	0.002500	0.002452	
2	1.551	1.551	0.000	4876	0.002500	0.002485	
						RPD = 1.33	
6 PCB-1016							M
1	2.552	2.552	0.000	14109	0.1000	0.1094	M
1	2.695	2.695	0.000	7400	0.1000	0.0975	M
1	2.893	2.893	0.000	21534	0.1000	0.1040	M
1	2.977	2.977	0.000	9069	0.1000	0.1027	M
		Average of Peak Amounts =				0.1034	
2	2.443	2.443	0.000	7140	0.1000	0.1073	
2	2.540	2.540	0.000	17839	0.1000	0.1042	
2	2.655	2.655	0.000	8202	0.1000	0.1072	
2	3.017	3.017	0.000	9495	0.1000	0.1059	
		Average of Peak Amounts =				0.1061	
						RPD = 2.63	
9 PCB-1260							M
1	4.500	4.500	0.000	25687	0.1000	0.1102	M
1	4.723	4.723	0.000	22991	0.1000	0.1046	M
1	4.851	4.851	0.000	15677	0.1000	0.1045	M
1	5.237	5.237	0.000	23345	0.1000	0.0993	
		Average of Peak Amounts =				0.1046	
2	4.338	4.338	0.000	22086	0.1000	0.1055	M
2	4.644	4.644	0.000	9802	0.1000	0.1039	M
2	4.709	4.709	0.000	8763	0.1000	0.1080	M
2	4.777	4.777	0.000	24466	0.1000	0.1073	M
		Average of Peak Amounts =				0.1062	
						RPD = 1.48	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
$ 12 DCB Decachlorobiphenyl							
1	6.736	6.736	0.000	6571	0.002500	0.002726	
2	6.050	6.050	0.000	7855	0.002500	0.002649	
						RPD = 2.88	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

AR1660 2.0ng_00003 Amount Added: 0.05 Units: mL

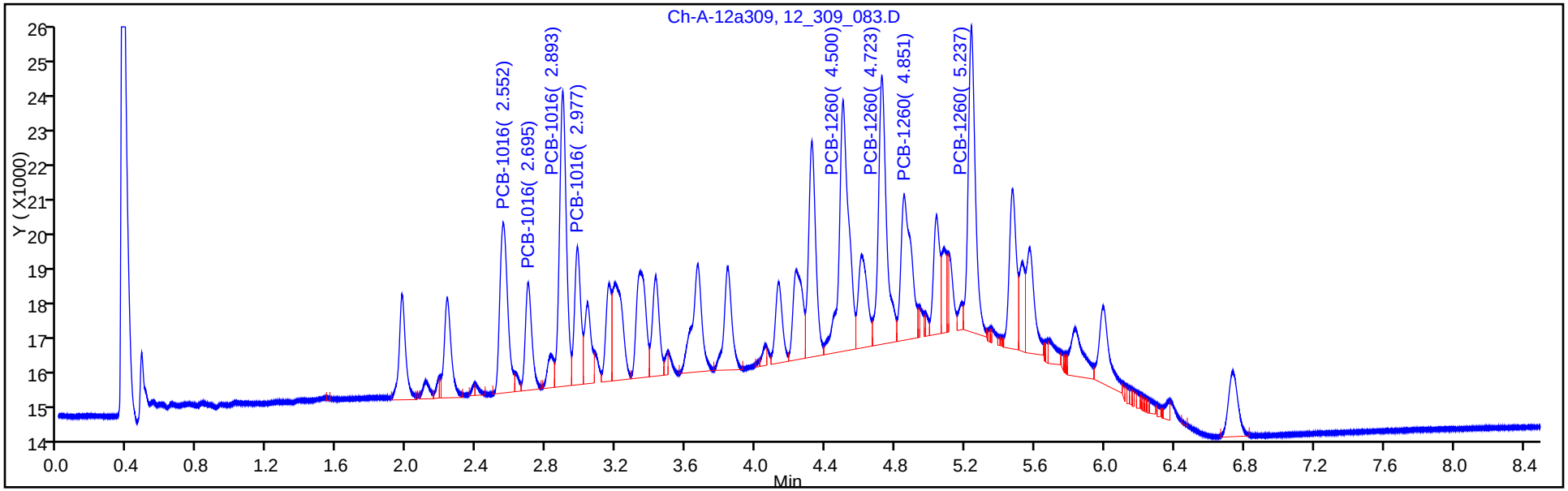
Report Date: 03-Oct-2014 09:17:09 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Buffalo

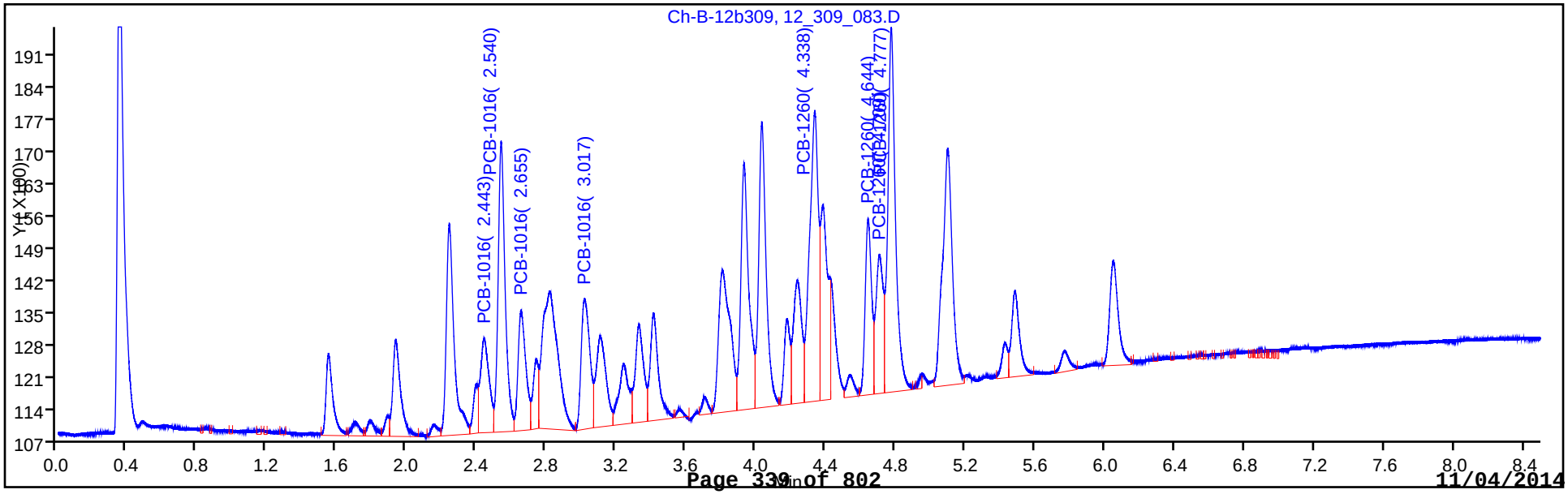
Data File: \\Bufchrom\ChromData\HP5890-12\20141002-35967.b\12_309_083.D

Injection Date:	02-Oct-2014 18:33:08	Instrument ID:	HP5890-12	Operator ID:	buftchrom
Lims ID:	STD3			Worklist Smp#:	5
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	hp12_pcb	Limit Group:	GC - 8082A PCB ICAL		

Column: ZB-5 (0.25 mm)



Column: ZB-35 (0.53 mm)



Report Date: 03-Oct-2014 09:17:09 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5890-12\20141002-35967.b\12_309_083.D

Injection Date: 02-Oct-2014 18:33:08 Instrument ID: HP5890-12

Lims ID: STD3

Client ID:

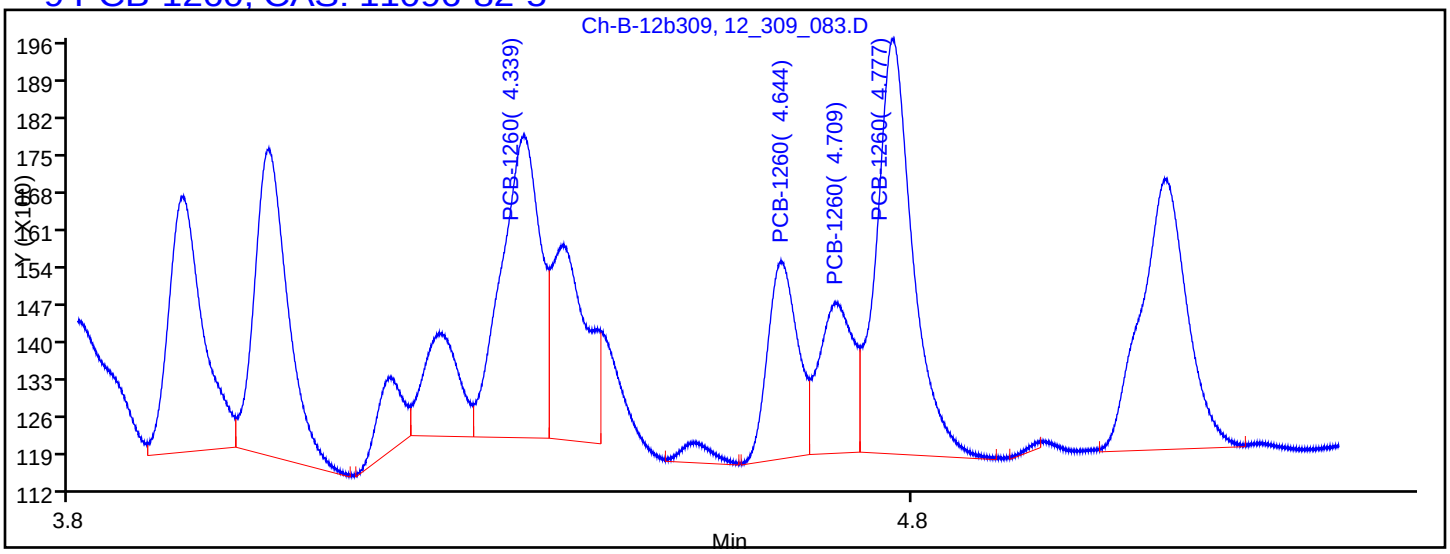
Operator ID: buftchrom ALS Bottle#: 0 Worklist Smp#: 5

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: hp12_pcb Limit Group: GC - 8082A PCB ICAL

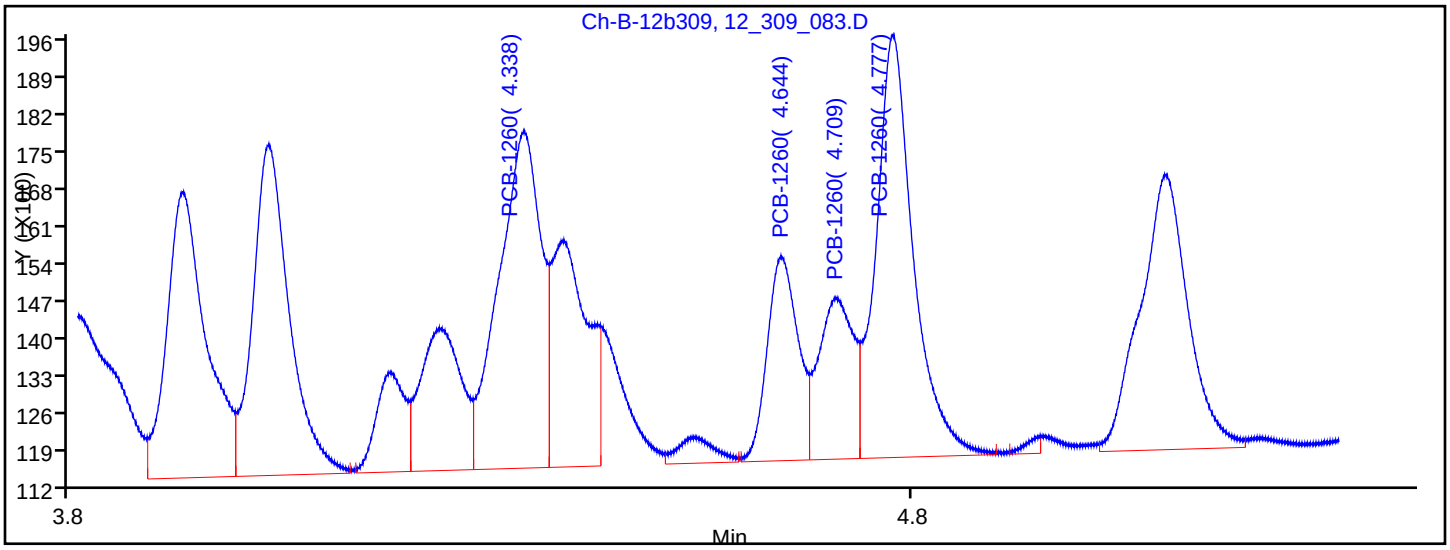
Column: ZB-35 (0.53 mm) Detector Ch-B-7b136

9 PCB-1260, CAS: 11096-82-5



Processing Integration Results

RT = 4.339	Response = 18419	M
RT = 4.644	Response = 9214	M
RT = 4.709	Response = 8010	M
RT = 4.777	Response = 23387	M



Manual Integration Results

RT = 4.338	Response = 22086	M
RT = 4.644	Response = 9802	M
RT = 4.709	Response = 8763	M
RT = 4.777	Response = 24466	M

Reviewer: eversd, 02-Oct-2014 19:31:12

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5890-12\20141002-35967.b\12_309_084.D
Lims ID: STD2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 02-Oct-2014 18:48:03 ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: buftchrom Instrument ID: HP5890-12
Sublist: chrom-hp12_pcb*sub1

Method: \\Bufchrom\ChromData\HP5890-12\20141002-35967.b\hp12_pcb.m
Limit Group: GC - 8082A PCB ICAL
Last Update: 03-Oct-2014 09:17:10 Calib Date: 03-Oct-2014 08:06:59
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5890-12\20141002-35967.b\12_309_108.D

Column 1 : ZB-5 (0.25 mm) Det: Ch-A-7A136
Column 2 : ZB-35 (0.53 mm) Det: Ch-B-7b136
Process Host: XAWRK023

First Level Reviewer: eversd Date: 02-Oct-2014 19:31:59

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
$ 3 Tetrachloro-m-xylene							
1	1.972	1.971	0.001	4441	0.001250	0.001370	
2	1.551	1.551	0.000	3070	0.001250	0.001600	
						RPD = 15.44	
6 PCB-1016							M
1	2.553	2.552	0.001	6910	0.0500	0.0536	
1	2.695	2.695	0.000	4254	0.0500	0.0561	M
1	2.895	2.893	0.002	11283	0.0500	0.0545	M
1	2.978	2.977	0.001	4871	0.0500	0.0551	M
		Average of Peak Amounts =				0.0548	
2	2.443	2.443	0.000	3564	0.0500	0.0535	M
2	2.539	2.540	-0.001	9114	0.0500	0.0533	M
2	2.654	2.655	-0.001	4196	0.0500	0.0548	M
2	3.019	3.017	0.002	4654	0.0500	0.0519	
		Average of Peak Amounts =				0.0534	
						RPD = 2.65	
9 PCB-1260							M
1	4.501	4.500	0.001	10652	0.0500	0.0457	
1	4.724	4.723	0.001	10794	0.0500	0.0491	
1	4.851	4.851	0.000	7572	0.0500	0.0505	
1	5.237	5.237	0.000	14304	0.0500	0.0609	
		Average of Peak Amounts =				0.0515	
2	4.339	4.338	0.001	11670	0.0500	0.0558	M
2	4.645	4.644	0.001	5334	0.0500	0.0566	M
2	4.709	4.709	0.000	4305	0.0500	0.0531	M
2	4.777	4.777	0.000	12481	0.0500	0.0547	
		Average of Peak Amounts =				0.0550	
						RPD = 6.58	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
$ 12 DCB Decachlorobiphenyl							
1	6.737	6.736	0.001	3354	0.001250	0.001392	
2	6.052	6.050	0.002	4209	0.001250	0.001419	
						RPD = 1.98	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

AR1660 2.0ng_00003 Amount Added: 0.03 Units: mL

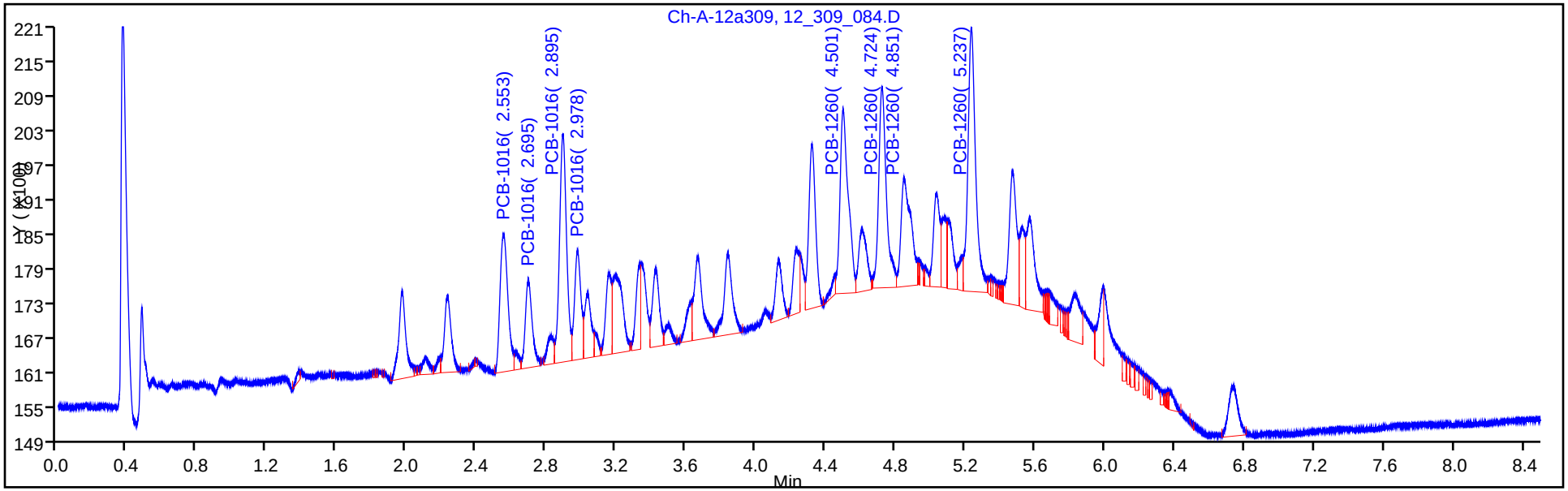
Report Date: 03-Oct-2014 09:17:11 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Buffalo

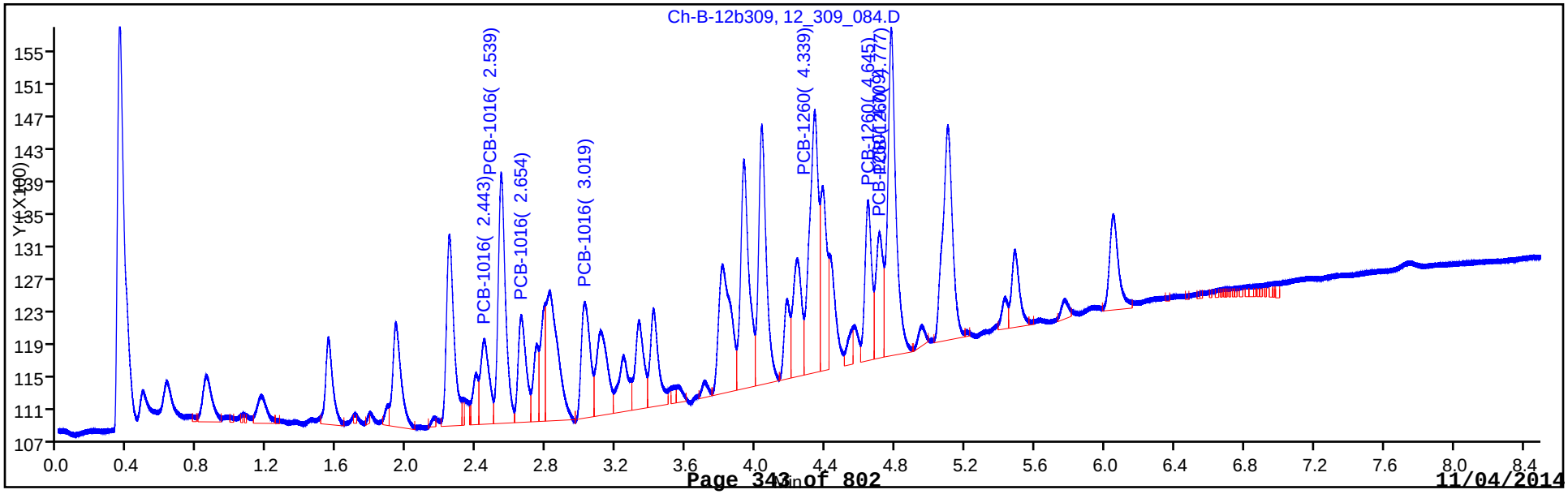
Data File: \\Bufchrom\ChromData\HP5890-12\20141002-35967.b\12_309_084.D

Injection Date:	02-Oct-2014 18:48:03	Instrument ID:	HP5890-12	Operator ID:	buftchrom
Lims ID:	STD2			Worklist Smp#:	6
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	hp12_pcb	Limit Group:	GC - 8082A PCB ICAL		

Column: ZB-5 (0.25 mm)



Column: ZB-35 (0.53 mm)



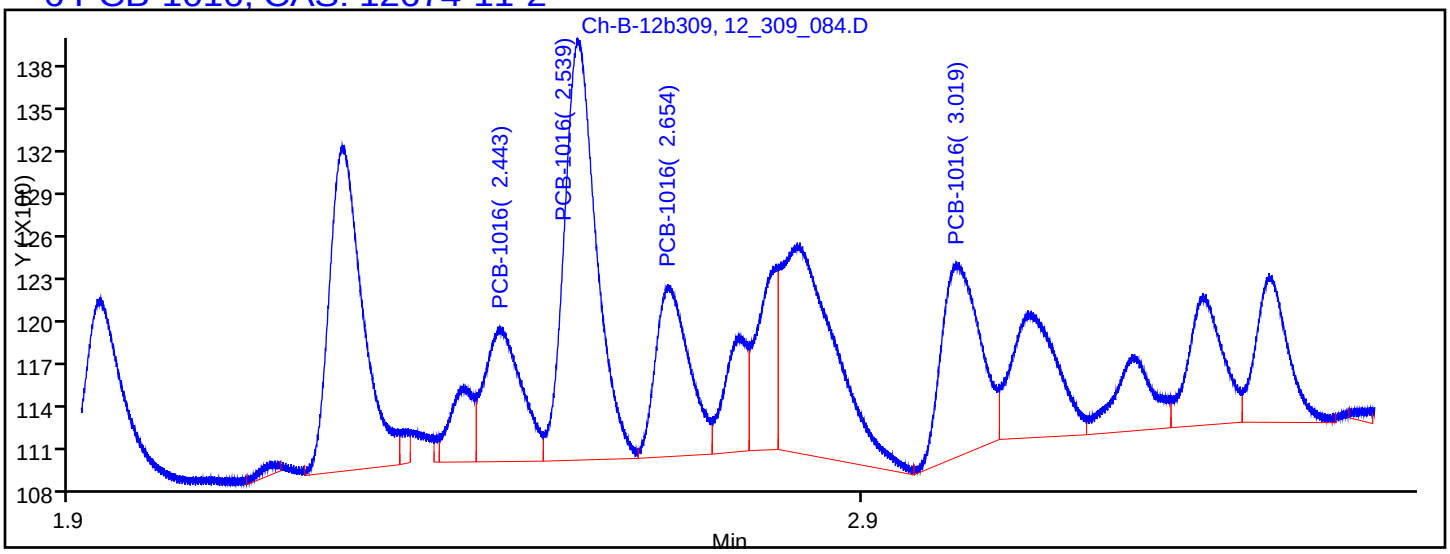
Report Date: 03-Oct-2014 09:17:11 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5890-12\20141002-35967.b\12_309_084.D

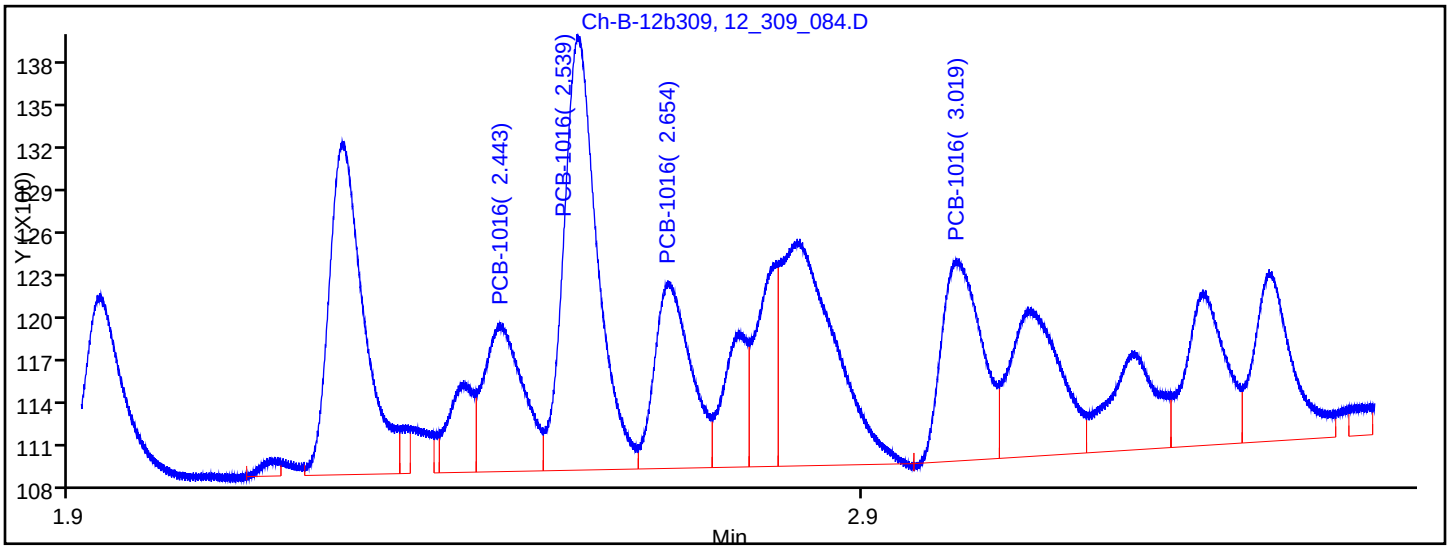
Injection Date:	02-Oct-2014 18:48:03	Instrument ID:	HP5890-12		
Lims ID:	STD2				
Client ID:					
Operator ID:	buftchrom	ALS Bottle#:	0	Worklist Smp#:	6
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	hp12_pcb	Limit Group:	GC - 8082A PCB ICAL		
Column:	ZB-35 (0.53 mm)	Detector	Ch-B-7b136		

6 PCB-1016, CAS: 12674-11-2



Processing Integration Results

RT = 2.443	Response = 3071	M
RT = 2.539	Response = 8405	M
RT = 2.654	Response = 3569	M
RT = 3.019	Response = 4654	



Manual Integration Results

RT = 2.443	Response = 3564	M
RT = 2.539	Response = 9114	M
RT = 2.654	Response = 4196	M
RT = 3.019	Response = 4654	

Reviewer: eversd, 02-Oct-2014 19:31:59
Audit Action: Assigned New Baseline
Audit Reason: Incomplete Integration

Report Date: 03-Oct-2014 09:17:11 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5890-12\20141002-35967.b\12_309_084.D

Injection Date: 02-Oct-2014 18:48:03 Instrument ID: HP5890-12

Lims ID: STD2

Client ID:

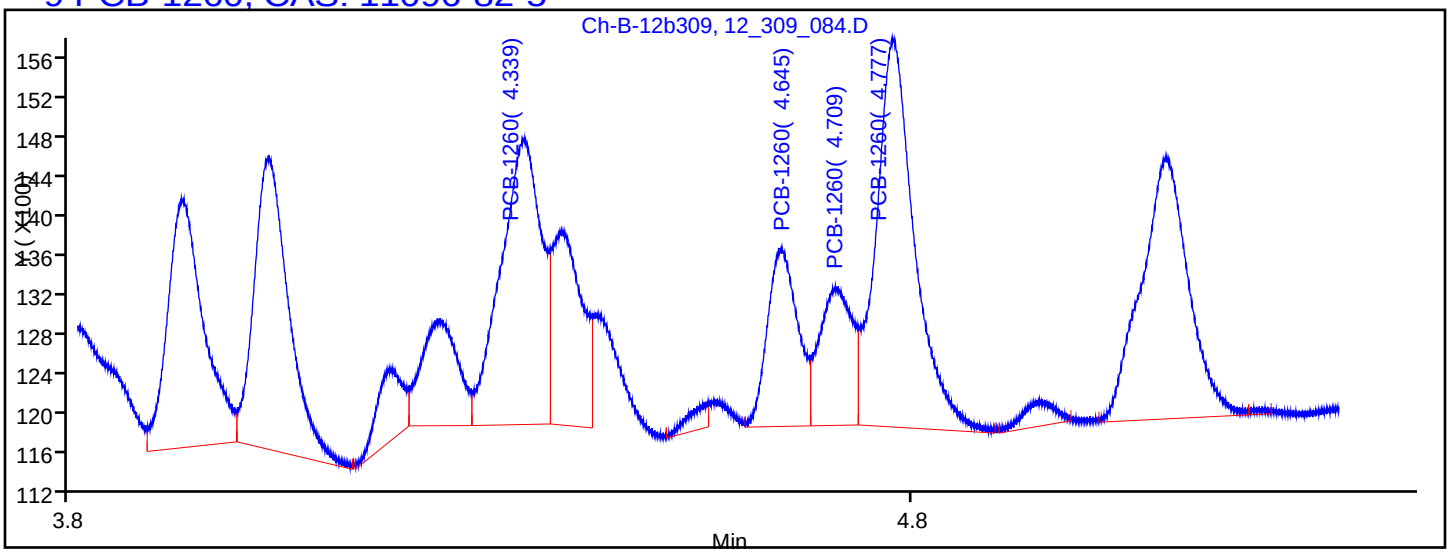
Operator ID: buftchrom ALS Bottle#: 0 Worklist Smp#: 6

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: hp12_pcb Limit Group: GC - 8082A PCB ICAL

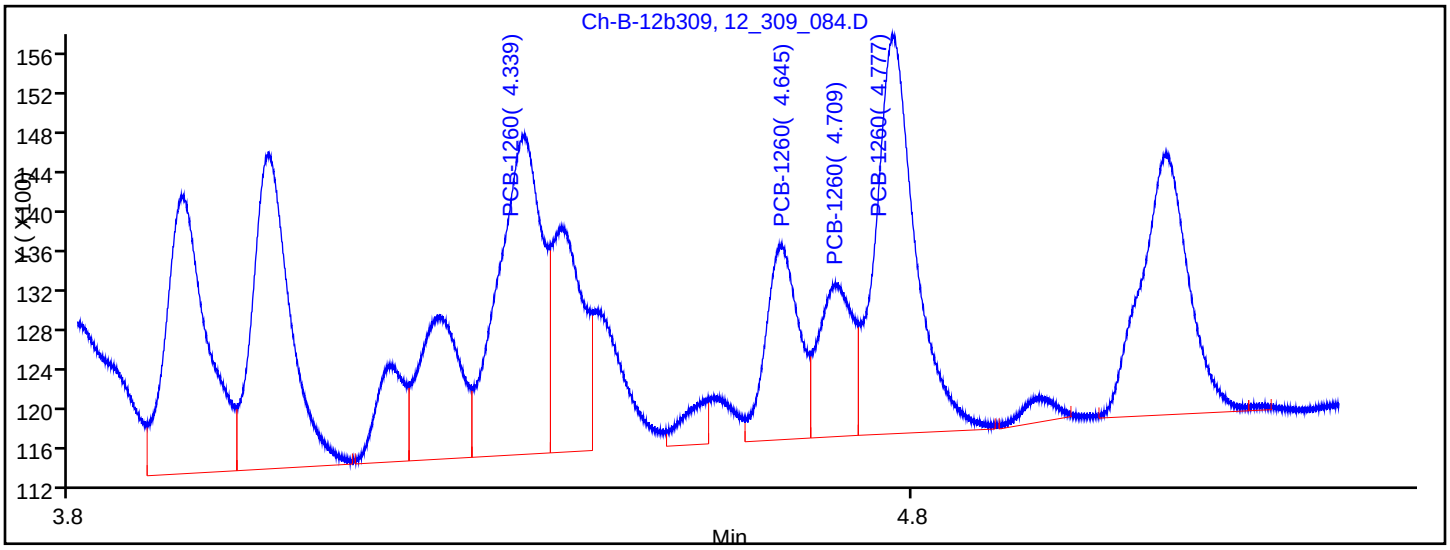
Column: ZB-35 (0.53 mm) Detector Ch-B-7b136

9 PCB-1260, CAS: 11096-82-5



Processing Integration Results

RT = 4.339	Response = 9724	M
RT = 4.645	Response = 4508	M
RT = 4.709	Response = 3778	M
RT = 4.777	Response = 12481	



Manual Integration Results

RT = 4.339	Response = 11670	M
RT = 4.645	Response = 5334	M
RT = 4.709	Response = 4305	M
RT = 4.777	Response = 12481	

Reviewer: eversd, 02-Oct-2014 19:31:59

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5890-12\20141002-35967.b\12_309_085.D
Lims ID: STD1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 02-Oct-2014 19:02:53 ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: buftchrom Instrument ID: HP5890-12
Sublist: chrom-hp12_pcb*sub1

Method: \\Bufchrom\ChromData\HP5890-12\20141002-35967.b\hp12_pcb.m
Limit Group: GC - 8082A PCB ICAL
Last Update: 03-Oct-2014 09:17:13 Calib Date: 03-Oct-2014 08:06:59
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5890-12\20141002-35967.b\12_309_108.D

Column 1 : ZB-5 (0.25 mm) Det: Ch-A-7A136
Column 2 : ZB-35 (0.53 mm) Det: Ch-B-7b136
Process Host: XAWRK023

First Level Reviewer: eversd Date: 02-Oct-2014 19:34:09

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
$ 3 Tetrachloro-m-xylene							M
1	1.971	1.971	0.000	2454	0.000500	0.000607	M
2	1.549	1.551	-0.002	1784	0.000500	0.000969	
						RPD = 45.95	
6 PCB-1016							M
1	2.553	2.552	0.001	3260	0.0200	0.0253	
1	2.696	2.695	0.001	2005	0.0200	0.0264	M
1	2.894	2.893	0.001	4609	0.0200	0.0222	M
1	2.977	2.977	0.000	2090	0.0200	0.0237	M
		Average of Peak Amounts =				0.0244	
2	2.439	2.443	-0.004	1412	0.0200	0.0212	M
2	2.539	2.540	-0.001	3677	0.0200	0.0215	M
2	2.653	2.655	-0.002	1581	0.0200	0.0207	M
2	3.018	3.017	0.001	2006	0.0200	0.0224	M
		Average of Peak Amounts =				0.0214	
						RPD = 12.96	
9 PCB-1260							M
1	4.501	4.500	0.001	4754	0.0200	0.0204	M
1	4.724	4.723	0.001	4396	0.0200	0.0200	
1	4.851	4.851	0.000	2908	0.0200	0.0194	M
1	5.237	5.237	0.000	5430	0.0200	0.0231	
		Average of Peak Amounts =				0.0207	
2	4.337	4.338	-0.001	4720	0.0200	0.0226	M
2	4.645	4.644	0.001	2190	0.0200	0.0232	M
2	4.709	4.709	0.000	1793	0.0200	0.0221	M
2	4.777	4.777	0.000	5548	0.0200	0.0243	
		Average of Peak Amounts =				0.0231	
						RPD = 10.67	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
$ 12 DCB Decachlorobiphenyl							M
1	6.736	6.736	0.000	1201	0.000500	0.000498	M
2	6.054	6.050	0.004	1881	0.000500	0.000634	
						RPD = 24.02	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

AR1660 2.0ng_00003 Amount Added: 0.01 Units: mL

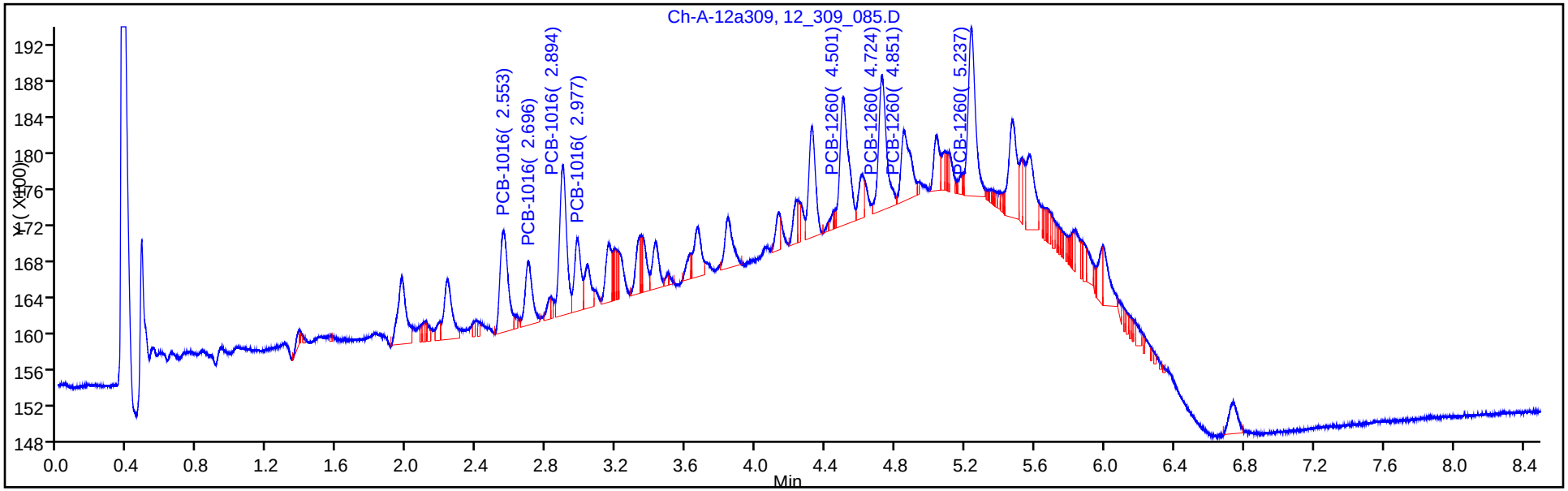
Report Date: 03-Oct-2014 09:17:14 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Buffalo

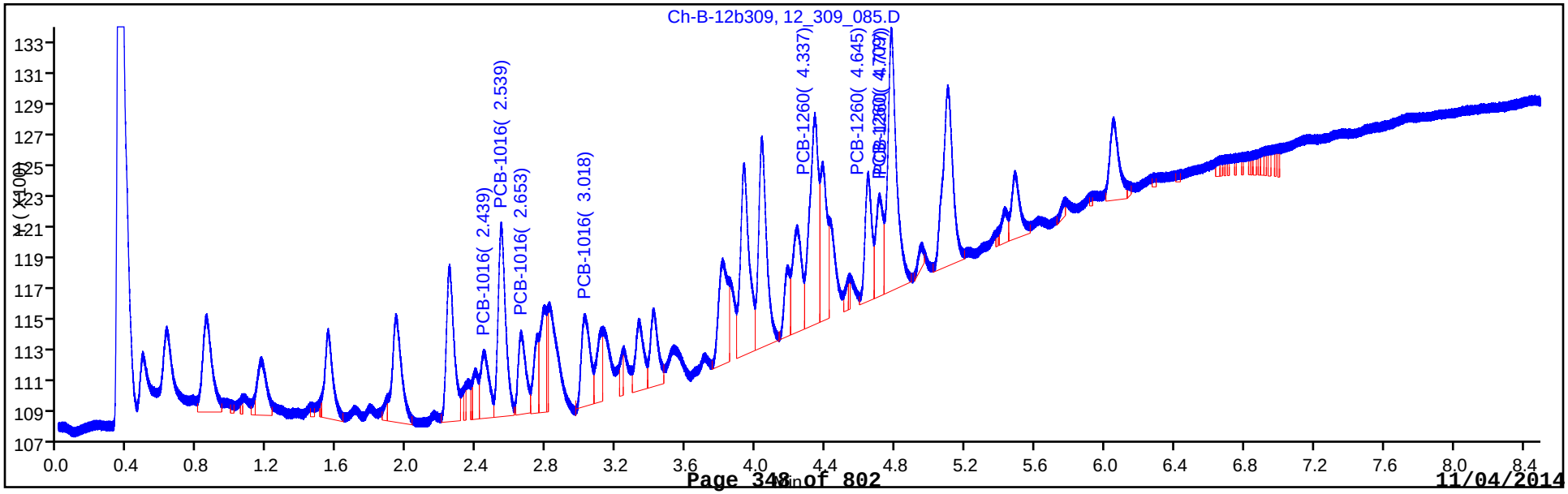
Data File: \\Bufchrom\ChromData\HP5890-12\20141002-35967.b\12_309_085.D

Injection Date:	02-Oct-2014 19:02:53	Instrument ID:	HP5890-12	Operator ID:	buftchrom
Lims ID:	STD1			Worklist Smp#:	7
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	hp12_pcb	Limit Group:	GC - 8082A PCB ICAL		

Column: ZB-5 (0.25 mm)



Column: ZB-35 (0.53 mm)



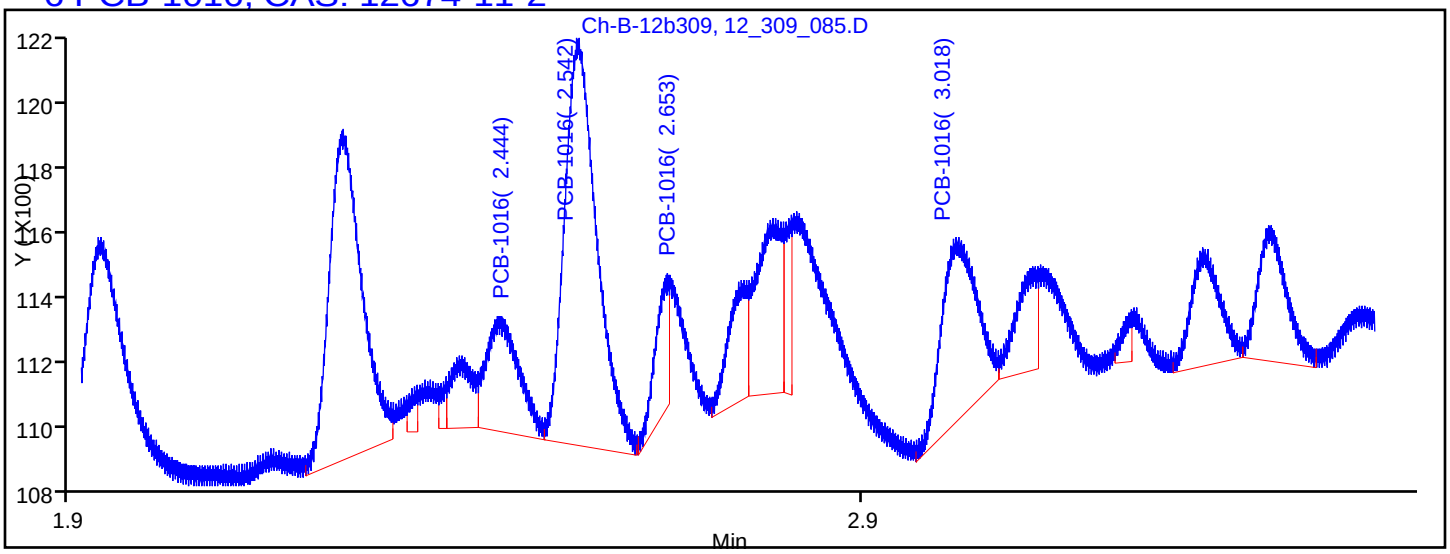
Report Date: 03-Oct-2014 09:17:14 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5890-12\20141002-35967.b\12_309_085.D

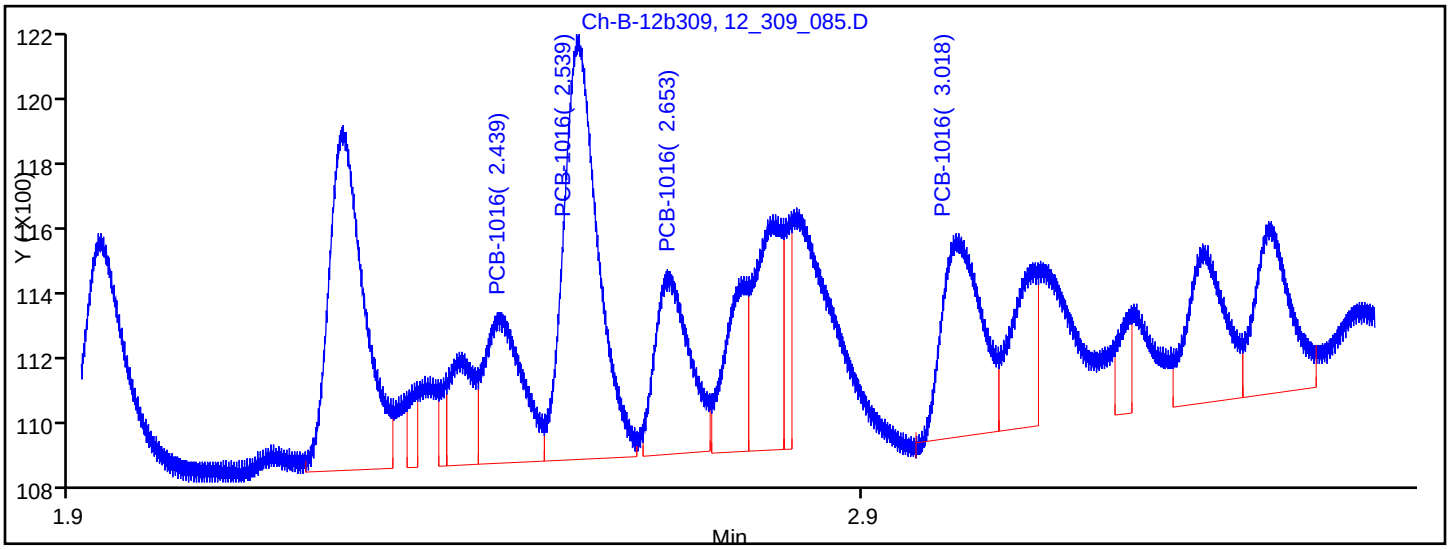
Injection Date:	02-Oct-2014 19:02:53	Instrument ID:	HP5890-12		
Lims ID:	STD1				
Client ID:					
Operator ID:	buftchrom	ALS Bottle#:	0	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	hp12_pcb	Limit Group:	GC - 8082A PCB ICAL		
Column:	ZB-35 (0.53 mm)	Detector	Ch-B-7b136		

6 PCB-1016, CAS: 12674-11-2



Processing Integration Results

RT = 2.444	Response = 934	M
RT = 2.542	Response = 3369	M
RT = 2.653	Response = 467	M
RT = 3.018	Response = 1638	M



Manual Integration Results

RT = 2.439	Response = 1412	M
RT = 2.539	Response = 3677	M
RT = 2.653	Response = 1581	M
RT = 3.018	Response = 2006	M

Reviewer: eversd, 02-Oct-2014 19:34:09
Audit Action: Assigned New Baseline
Audit Reason: Incomplete Integration

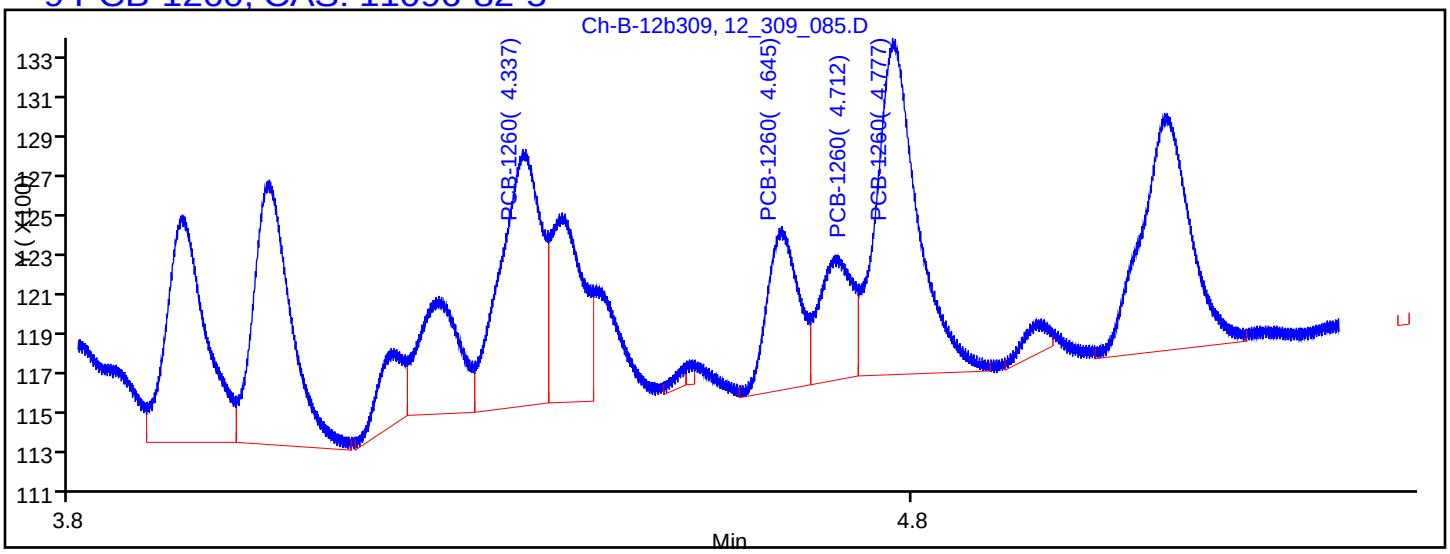
Report Date: 03-Oct-2014 09:17:14 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5890-12\20141002-35967.b\12_309_085.D

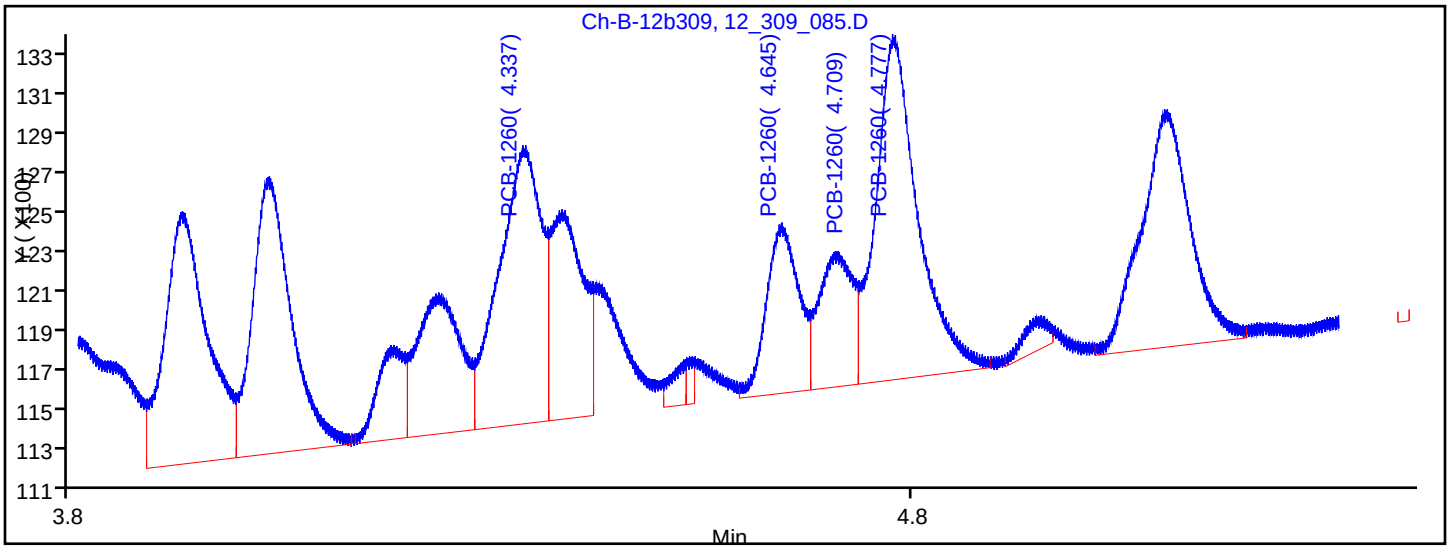
Injection Date:	02-Oct-2014 19:02:53	Instrument ID:	HP5890-12		
Lims ID:	STD1				
Client ID:					
Operator ID:	buftchrom	ALS Bottle#:	0	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	hp12_pcb	Limit Group:	GC - 8082A PCB ICAL		
Column:	ZB-35 (0.53 mm)	Detector	Ch-B-7b136		

9 PCB-1260, CAS: 11096-82-5



Processing Integration Results

RT = 4.337	Response = 4184	M
RT = 4.645	Response = 2040	M
RT = 4.712	Response = 1628	M
RT = 4.777	Response = 5548	



Manual Integration Results

RT = 4.337	Response = 4720	M
RT = 4.645	Response = 2190	M
RT = 4.709	Response = 1793	M
RT = 4.777	Response = 5548	

Reviewer: eversd, 02-Oct-2014 19:34:09
Audit Action: Assigned New Baseline
Audit Reason: Incomplete Integration

FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-70101-1 Analy Batch No.: 205708

SDG No.:

Instrument ID: HP5890-12 GC Column: ZB-5 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/02/2014 21:01 Calibration End Date: 10/02/2014 21:01 Calibration ID: 20505

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD48 480-205708/15	12_309_093.D

ANALYTE	LVL 1										RT WINDOW	AVG RT
PCB-1248 Peak 1	3.156										3.126 - 3.186	3.156
PCB-1248 Peak 2	3.328										3.298 - 3.358	3.328
PCB-1248 Peak 3	3.423										3.393 - 3.453	3.423
PCB-1248 Peak 4	3.657										3.627 - 3.687	3.657

FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-70101-1 Analy Batch No.: 205708

SDG No.:

Instrument ID: HP5890-12 GC Column: ZB-5 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/02/2014 21:01 Calibration End Date: 10/02/2014 21:01 Calibration ID: 20505

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD48 480-205708/15	12_309_093.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1					B	M1	M2								
PCB-1248 Peak 1	76706				Ave		76706.0000						20.0			
PCB-1248 Peak 2	122176				Ave		122176.000						20.0			
PCB-1248 Peak 3	93934				Ave		93934.0000						20.0			
PCB-1248 Peak 4	149698				Ave		149698.000						20.0			

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

FORM VI

PCBS INITIAL CALIBRATION DATA

EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-70101-1 Analy Batch No.: 205708

SDG No.:

Instrument ID: HP5890-12 GC Column: ZB-5 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/02/2014 21:01 Calibration End Date: 10/02/2014 21:01 Calibration ID: 20505

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD48 480-205708/15	12_309_093.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
		LVL 1					LVL 1				
PCB-1248 Peak 1	Ave	38353					0.500				
PCB-1248 Peak 2	Ave	61088					0.500				
PCB-1248 Peak 3	Ave	46967					0.500				
PCB-1248 Peak 4	Ave	74849					0.500				

Curve Type Legend:

Ave = Average

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5890-12\20141002-35967.b\12_309_093.D
Lims ID: STD48
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 02-Oct-2014 21:01:45 ALS Bottle#: 0 Worklist Smp#: 15
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: buftchrom Instrument ID: HP5890-12
Sublist: chrom-hp12_pcb*sub6

Method: \\Bufchrom\ChromData\HP5890-12\20141002-35967.b\hp12_pcb.m
Limit Group: GC - 8082A PCB ICAL
Last Update: 03-Oct-2014 09:17:15 Calib Date: 03-Oct-2014 08:06:59
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5890-12\20141002-35967.b\12_309_108.D

Column 1 : ZB-5 (0.25 mm) Det: Ch-A-7A136
Column 2 : ZB-35 (0.53 mm) Det: Ch-B-7b136
Process Host: XAWRK023

First Level Reviewer: eversd Date: 03-Oct-2014 05:49:59

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
7 PCB-1248							
1	3.156	3.156	0.000	38353	0.5000	0.5000	a
1	3.328	3.328	0.000	61088	0.5000	0.5000	a
1	3.423	3.423	0.000	46967	0.5000	0.5000	a
1	3.657	3.657	0.000	74849	0.5000	0.5000	a
		Average of Peak Amounts =				0.5000	
2	2.817	2.817	0.000	68447	0.5000	0.5000	a
2	3.010	3.010	0.000	52712	0.5000	0.5000	a
2	3.105	3.105	0.000	45656	0.5000	0.5000	a
2	3.242	3.242	0.000	66973	0.5000	0.5000	a
		Average of Peak Amounts =				0.5000	
						RPD = 0.00	

Reagents:

AR1248.5ng_00002 Amount Added: 1.00 Units: mL

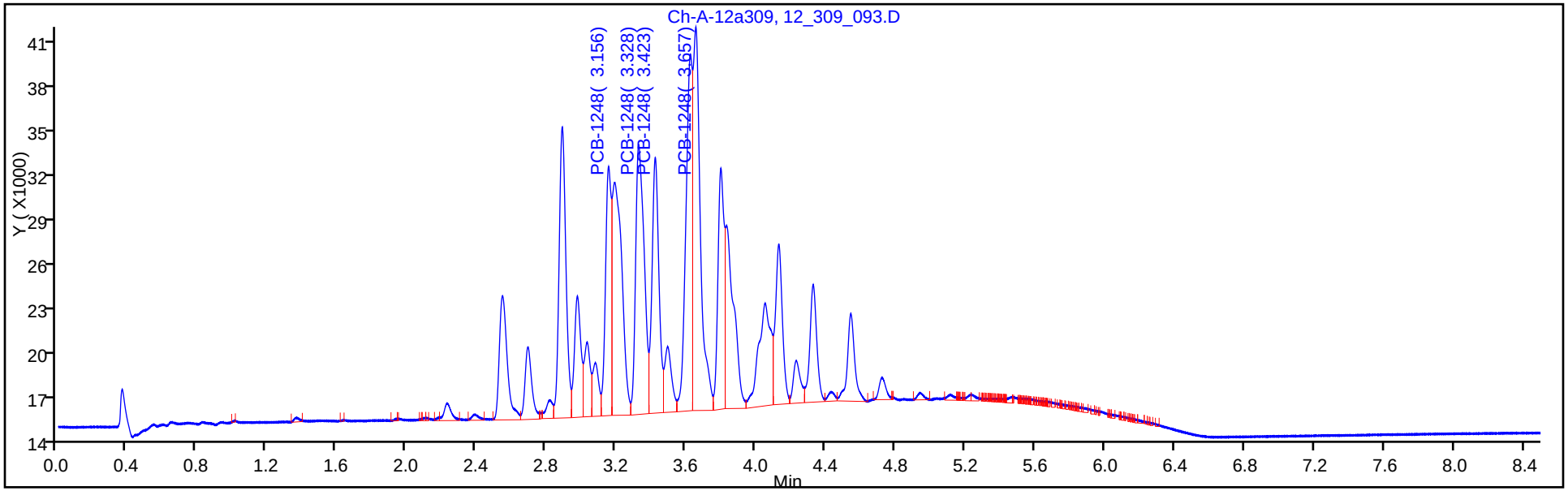
Report Date: 03-Oct-2014 09:17:16 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Buffalo

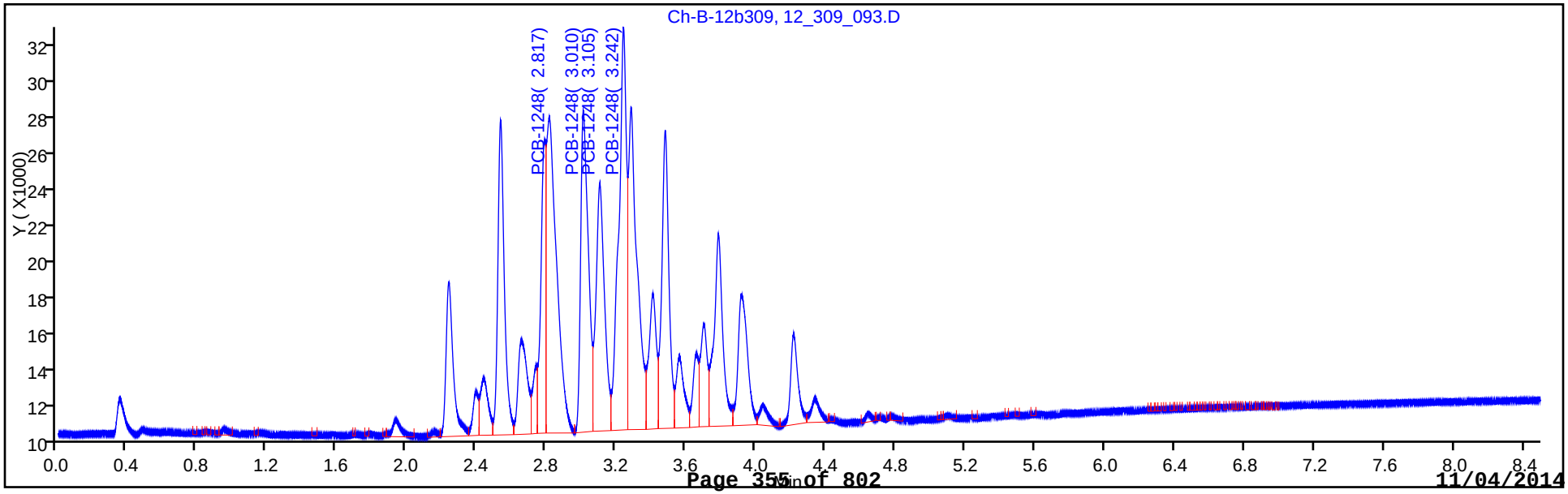
Data File: \\Bufchrom\ChromData\HP5890-12\20141002-35967.b\12_309_093.D

Injection Date:	02-Oct-2014 21:01:45	Instrument ID:	HP5890-12	Operator ID:	buftchrom
Lims ID:	STD48			Worklist Smp#:	15
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	hp12_pcb	Limit Group:	GC - 8082A PCB ICAL		

Column: ZB-5 (0.25 mm)



Column: ZB-35 (0.53 mm)



FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-70101-1 Analy Batch No.: 205708

SDG No.:

Instrument ID: HP5890-12 GC Column: ZB-35 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/02/2014 21:01 Calibration End Date: 10/02/2014 21:01 Calibration ID: 20506

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD48 480-205708/15	12_309_093.D

ANALYTE	LVL 1										RT WINDOW	AVG RT
PCB-1248 Peak 1	2.817										2.787 - 2.847	2.817
PCB-1248 Peak 2	3.010										2.980 - 3.040	3.010
PCB-1248 Peak 3	3.105										3.075 - 3.135	3.105
PCB-1248 Peak 4	3.242										3.212 - 3.272	3.242

FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-70101-1 Analy Batch No.: 205708

SDG No.:

Instrument ID: HP5890-12 GC Column: ZB-35 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/02/2014 21:01 Calibration End Date: 10/02/2014 21:01 Calibration ID: 20506

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD48 480-205708/15	12_309_093.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1					B	M1	M2								
PCB-1248 Peak 1	136894				Ave		136894.000						20.0			
PCB-1248 Peak 2	105424				Ave		105424.000						20.0			
PCB-1248 Peak 3	91312				Ave		91312.0000						20.0			
PCB-1248 Peak 4	133946				Ave		133946.000						20.0			

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

FORM VI

PCBS INITIAL CALIBRATION DATA

EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-70101-1 Analy Batch No.: 205708

SDG No.:

Instrument ID: HP5890-12 GC Column: ZB-35 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/02/2014 21:01 Calibration End Date: 10/02/2014 21:01 Calibration ID: 20506

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD48 480-205708/15	12_309_093.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
		LVL 1					LVL 1				
PCB-1248 Peak 1	Ave	68447					0.500				
PCB-1248 Peak 2	Ave	52712					0.500				
PCB-1248 Peak 3	Ave	45656					0.500				
PCB-1248 Peak 4	Ave	66973					0.500				

Curve Type Legend:

Ave = Average

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5890-12\20141002-35967.b\12_309_093.D
Lims ID: STD48
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 02-Oct-2014 21:01:45 ALS Bottle#: 0 Worklist Smp#: 15
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: buftchrom Instrument ID: HP5890-12
Sublist: chrom-hp12_pcb*sub6

Method: \\Bufchrom\ChromData\HP5890-12\20141002-35967.b\hp12_pcb.m
Limit Group: GC - 8082A PCB ICAL
Last Update: 03-Oct-2014 09:17:15 Calib Date: 03-Oct-2014 08:06:59
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5890-12\20141002-35967.b\12_309_108.D

Column 1 : ZB-5 (0.25 mm) Det: Ch-A-7A136
Column 2 : ZB-35 (0.53 mm) Det: Ch-B-7b136
Process Host: XAWRK023

First Level Reviewer: eversd Date: 03-Oct-2014 05:49:59

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
7 PCB-1248							
1	3.156	3.156	0.000	38353	0.5000	0.5000	a
1	3.328	3.328	0.000	61088	0.5000	0.5000	a
1	3.423	3.423	0.000	46967	0.5000	0.5000	a
1	3.657	3.657	0.000	74849	0.5000	0.5000	a
		Average of Peak Amounts =				0.5000	
2	2.817	2.817	0.000	68447	0.5000	0.5000	a
2	3.010	3.010	0.000	52712	0.5000	0.5000	a
2	3.105	3.105	0.000	45656	0.5000	0.5000	a
2	3.242	3.242	0.000	66973	0.5000	0.5000	a
		Average of Peak Amounts =				0.5000	
						RPD = 0.00	

Reagents:

AR1248.5ng_00002 Amount Added: 1.00 Units: mL

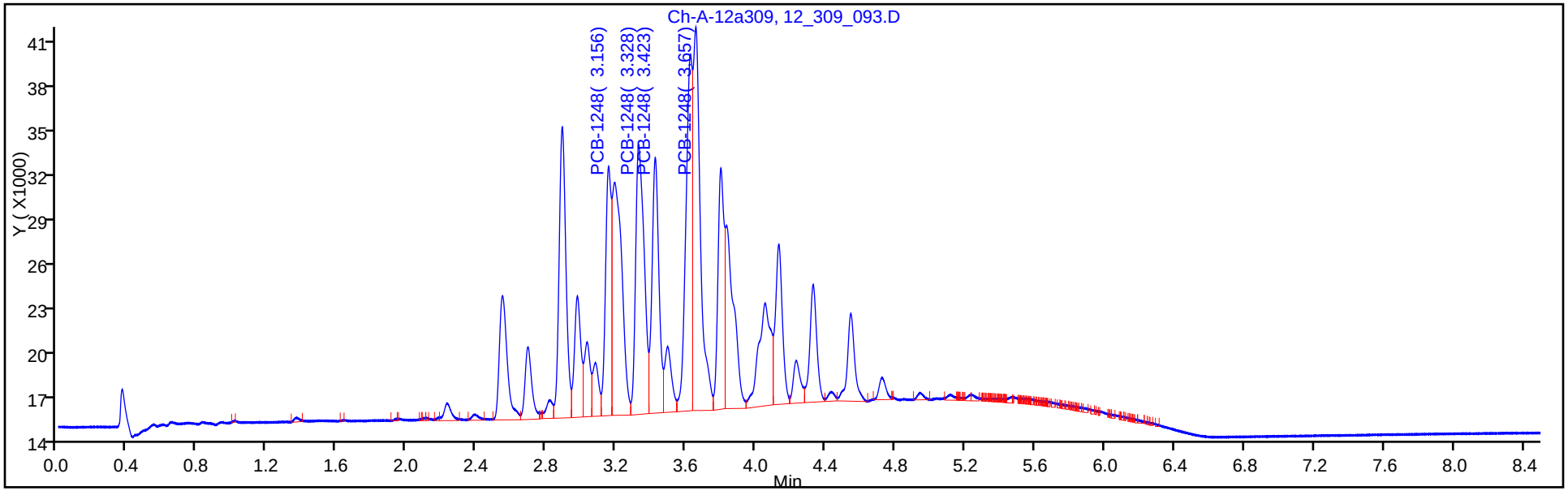
Report Date: 03-Oct-2014 09:17:16 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Buffalo

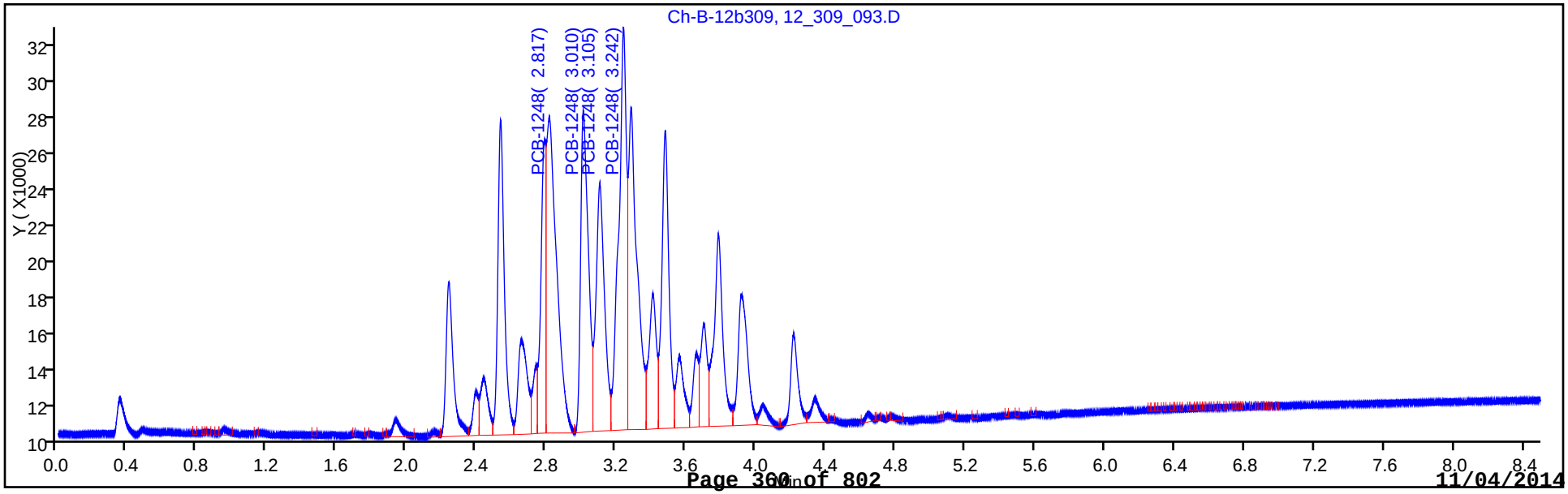
Data File: \\Bufchrom\ChromData\HP5890-12\20141002-35967.b\12_309_093.D

Injection Date:	02-Oct-2014 21:01:45	Instrument ID:	HP5890-12	Operator ID:	buftchrom
Lims ID:	STD48			Worklist Smp#:	15
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	hp12_pcb	Limit Group:	GC - 8082A PCB ICAL		

Column: ZB-5 (0.25 mm)



Column: ZB-35 (0.53 mm)



FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-70101-1 Analy Batch No.: 205708

SDG No.:

Instrument ID: HP5890-12 GC Column: ZB-5 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/02/2014 21:31 Calibration End Date: 10/02/2014 21:31 Calibration ID: 20511

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD54 480-205708/17	12_309_095.D

ANALYTE	LVL 1										RT WINDOW	AVG RT
PCB-1254 Peak 1	3.838										3.808 - 3.868	3.838
PCB-1254 Peak 2	4.053										4.023 - 4.083	4.053
PCB-1254 Peak 3	4.131										4.101 - 4.161	4.131
PCB-1254 Peak 4	4.326										4.296 - 4.356	4.326

FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-70101-1 Analy Batch No.: 205708

SDG No.:

Instrument ID: HP5890-12 GC Column: ZB-5 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/02/2014 21:31 Calibration End Date: 10/02/2014 21:31 Calibration ID: 20511

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD54 480-205708/17	12_309_095.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1					B	M1	M2								
PCB-1254 Peak 1	234134				Ave		234134.000						20.0			
PCB-1254 Peak 2	141322				Ave		141322.000						20.0			
PCB-1254 Peak 3	169754				Ave		169754.000						20.0			
PCB-1254 Peak 4	176938				Ave		176938.000						20.0			

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

FORM VI

PCBS INITIAL CALIBRATION DATA

EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-70101-1 Analy Batch No.: 205708

SDG No.:

Instrument ID: HP5890-12 GC Column: ZB-5 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/02/2014 21:31 Calibration End Date: 10/02/2014 21:31 Calibration ID: 20511

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD54 480-205708/17	12_309_095.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
		LVL 1					LVL 1				
PCB-1254 Peak 1	Ave	117067					0.500				
PCB-1254 Peak 2	Ave	70661					0.500				
PCB-1254 Peak 3	Ave	84877					0.500				
PCB-1254 Peak 4	Ave	88469					0.500				

Curve Type Legend:

Ave = Average

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5890-12\20141002-35967.b\12_309_095.D
Lims ID: STD54
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 02-Oct-2014 21:31:26 ALS Bottle#: 0 Worklist Smp#: 17
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: buftchrom Instrument ID: HP5890-12
Sublist: chrom-hp12_pcb*sub7

Method: \\Bufchrom\ChromData\HP5890-12\20141002-35967.b\hp12_pcb.m
Limit Group: GC - 8082A PCB ICAL
Last Update: 03-Oct-2014 09:17:17 Calib Date: 03-Oct-2014 08:06:59
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5890-12\20141002-35967.b\12_309_108.D

Column 1 : ZB-5 (0.25 mm) Det: Ch-A-7A136
Column 2 : ZB-35 (0.53 mm) Det: Ch-B-7b136
Process Host: XAWRK023

First Level Reviewer: eversd Date: 03-Oct-2014 05:52:13

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
8 PCB-1254							
1	3.838	3.838	0.000	117067	0.5000	0.5000	a
1	4.053	4.053	0.000	70661	0.5000	0.5000	a
1	4.131	4.131	0.000	84877	0.5000	0.5000	a
1	4.326	4.326	0.000	88469	0.5000	0.5000	a
		Average of Peak Amounts =				0.5000	
2	3.409	3.409	0.000	60690	0.5000	0.5000	a
2	3.787	3.787	0.000	99657	0.5000	0.5000	a
2	3.917	3.917	0.000	91694	0.5000	0.5000	a
2	4.337	4.337	0.000	74470	0.5000	0.5000	a
		Average of Peak Amounts =				0.5000	
						RPD = 0.00	

Reagents:

AR1254 STD_00009 Amount Added: 1.00 Units: mL

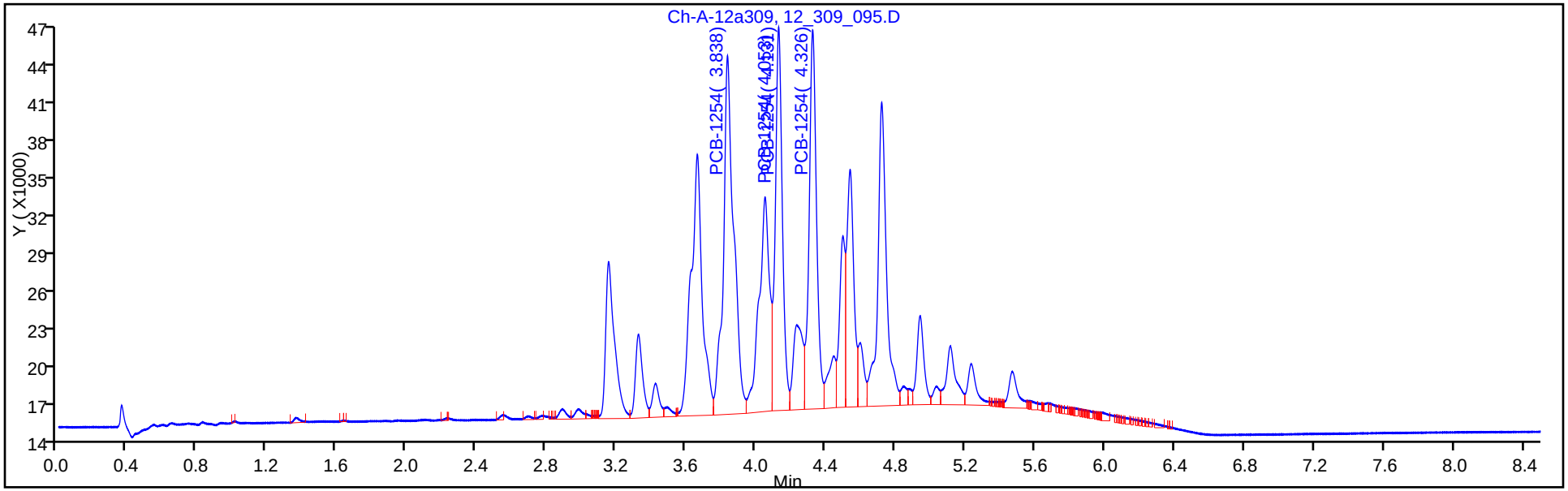
Report Date: 03-Oct-2014 09:17:18 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Buffalo

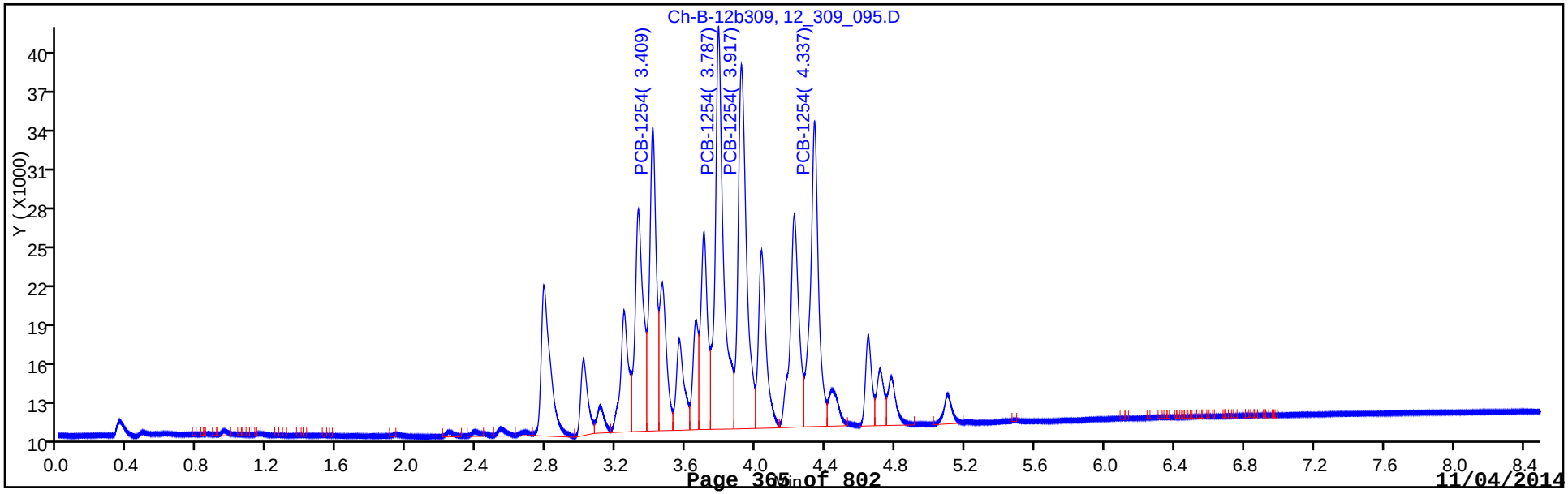
Data File: \\Bufchrom\ChromData\HP5890-12\20141002-35967.b\12_309_095.D

Injection Date:	02-Oct-2014 21:31:26	Instrument ID:	HP5890-12	Operator ID:	buftchrom
Lims ID:	STD54			Worklist Smp#:	17
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	hp12_pcb	Limit Group:	GC - 8082A PCB ICAL		

Column: ZB-5 (0.25 mm)



Column: ZB-35 (0.53 mm)



FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-70101-1 Analy Batch No.: 205708

SDG No.:

Instrument ID: HP5890-12 GC Column: ZB-35 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/02/2014 21:31 Calibration End Date: 10/02/2014 21:31 Calibration ID: 20512

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD54 480-205708/17	12_309_095.D

ANALYTE	LVL 1										RT WINDOW	AVG RT
PCB-1254 Peak 1	3.409										3.379 - 3.439	3.409
PCB-1254 Peak 2	3.787										3.757 - 3.817	3.787
PCB-1254 Peak 3	3.917										3.887 - 3.947	3.917
PCB-1254 Peak 4	4.337										4.307 - 4.367	4.337

FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-70101-1 Analy Batch No.: 205708

SDG No.:

Instrument ID: HP5890-12 GC Column: ZB-35 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/02/2014 21:31 Calibration End Date: 10/02/2014 21:31 Calibration ID: 20512

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD54 480-205708/17	12_309_095.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1					B	M1	M2								
PCB-1254 Peak 1	121380				Ave		121380.000						20.0			
PCB-1254 Peak 2	199314				Ave		199314.000						20.0			
PCB-1254 Peak 3	183388				Ave		183388.000						20.0			
PCB-1254 Peak 4	148940				Ave		148940.000						20.0			

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

FORM VI

PCBS INITIAL CALIBRATION DATA

EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-70101-1 Analy Batch No.: 205708

SDG No.:

Instrument ID: HP5890-12 GC Column: ZB-35 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/02/2014 21:31 Calibration End Date: 10/02/2014 21:31 Calibration ID: 20512

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD54 480-205708/17	12_309_095.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
		LVL 1					LVL 1				
PCB-1254 Peak 1	Ave	60690					0.500				
PCB-1254 Peak 2	Ave	99657					0.500				
PCB-1254 Peak 3	Ave	91694					0.500				
PCB-1254 Peak 4	Ave	74470					0.500				

Curve Type Legend:

Ave = Average

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5890-12\20141002-35967.b\12_309_095.D
Lims ID: STD54
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 02-Oct-2014 21:31:26 ALS Bottle#: 0 Worklist Smp#: 17
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: buftchrom Instrument ID: HP5890-12
Sublist: chrom-hp12_pcb*sub7

Method: \\Bufchrom\ChromData\HP5890-12\20141002-35967.b\hp12_pcb.m
Limit Group: GC - 8082A PCB ICAL
Last Update: 03-Oct-2014 09:17:17 Calib Date: 03-Oct-2014 08:06:59
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5890-12\20141002-35967.b\12_309_108.D

Column 1 : ZB-5 (0.25 mm) Det: Ch-A-7A136
Column 2 : ZB-35 (0.53 mm) Det: Ch-B-7b136
Process Host: XAWRK023

First Level Reviewer: eversd Date: 03-Oct-2014 05:52:13

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
8 PCB-1254							
1	3.838	3.838	0.000	117067	0.5000	0.5000	a
1	4.053	4.053	0.000	70661	0.5000	0.5000	a
1	4.131	4.131	0.000	84877	0.5000	0.5000	a
1	4.326	4.326	0.000	88469	0.5000	0.5000	a
		Average of Peak Amounts =				0.5000	
2	3.409	3.409	0.000	60690	0.5000	0.5000	a
2	3.787	3.787	0.000	99657	0.5000	0.5000	a
2	3.917	3.917	0.000	91694	0.5000	0.5000	a
2	4.337	4.337	0.000	74470	0.5000	0.5000	a
		Average of Peak Amounts =				0.5000	
						RPD = 0.00	

Reagents:

AR1254 STD_00009 Amount Added: 1.00 Units: mL

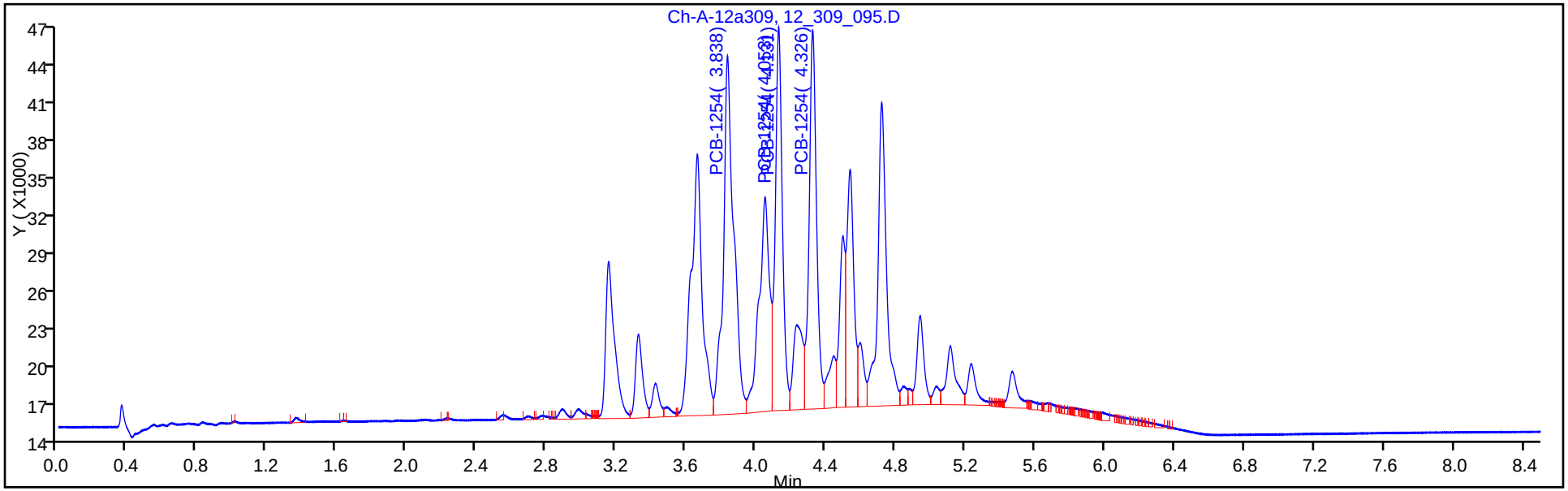
Report Date: 03-Oct-2014 09:17:18 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Buffalo

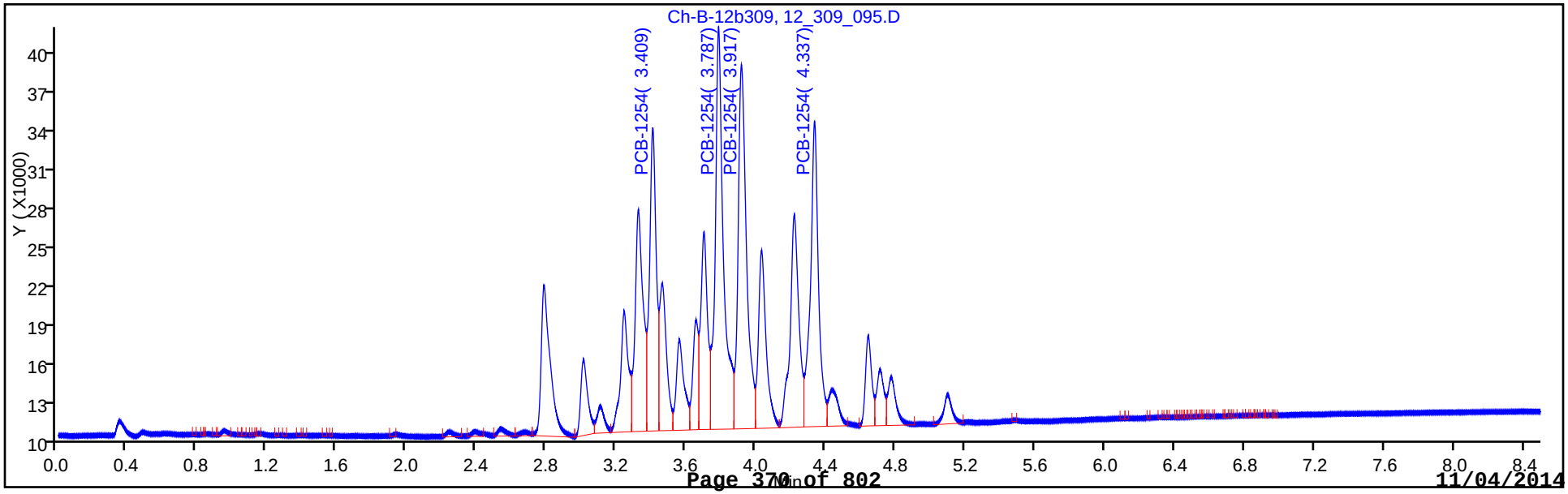
Data File: \\Bufchrom\ChromData\HP5890-12\20141002-35967.b\12_309_095.D

Injection Date:	02-Oct-2014 21:31:26	Instrument ID:	HP5890-12	Operator ID:	buftchrom
Lims ID:	STD54			Worklist Smp#:	17
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	hp12_pcb	Limit Group:	GC - 8082A PCB ICAL		

Column: ZB-5 (0.25 mm)



Column: ZB-35 (0.53 mm)



FORM VI

PCBS INITIAL CALIBRATION DATA

EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-70101-1 Analy Batch No.: 205708

SDG No.:

Instrument ID: HP5890-12 GC Column: ZB-5 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/03/2014 07:07 Calibration End Date: 10/03/2014 07:07 Calibration ID: 20529

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD21 480-205708/26	12_309_104.D

ANALYTE	LVL 1										RT WINDOW	AVG RT
PCB-1221 Peak 1	1.535										1.503 - 1.563	1.535
PCB-1221 Peak 2	1.943										1.914 - 1.974	1.943
PCB-1221 Peak 3	2.109										2.079 - 2.139	2.109
PCB-1221 Peak 4	2.229										2.201 - 2.261	2.229

FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-70101-1 Analy Batch No.: 205708

SDG No.:

Instrument ID: HP5890-12 GC Column: ZB-5 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/03/2014 07:07 Calibration End Date: 10/03/2014 07:07 Calibration ID: 20529

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD21 480-205708/26	12_309_104.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1					B	M1	M2								
PCB-1221 Peak 1	32898				Ave		32898.0000						20.0			
PCB-1221 Peak 2	15446				Ave		15446.0000						20.0			
PCB-1221 Peak 3	31438				Ave		31438.0000						20.0			
PCB-1221 Peak 4	91470				Ave		91470.0000						20.0			

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

FORM VI

PCBS INITIAL CALIBRATION DATA

EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-70101-1 Analy Batch No.: 205708

SDG No.:

Instrument ID: HP5890-12 GC Column: ZB-5 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/03/2014 07:07 Calibration End Date: 10/03/2014 07:07 Calibration ID: 20529

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD21 480-205708/26	12_309_104.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
		LVL 1					LVL 1				
PCB-1221 Peak 1	Ave	16449					0.500				
PCB-1221 Peak 2	Ave	7723					0.500				
PCB-1221 Peak 3	Ave	15719					0.500				
PCB-1221 Peak 4	Ave	45735					0.500				

Curve Type Legend:

Ave = Average

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5890-12\20141002-35967.b\12_309_104.D
Lims ID: STD21
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 03-Oct-2014 07:07:31 ALS Bottle#: 0 Worklist Smp#: 26
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: buftchrom Instrument ID: HP5890-12
Sublist: chrom-hp12_pcb*sub3

Method: \\Bufchrom\ChromData\HP5890-12\20141002-35967.b\hp12_pcb.m
Limit Group: GC - 8082A PCB ICAL
Last Update: 03-Oct-2014 09:17:23 Calib Date: 03-Oct-2014 08:06:59
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5890-12\20141002-35967.b\12_309_108.D

Column 1 : ZB-5 (0.25 mm) Det: Ch-A-7A136
Column 2 : ZB-35 (0.53 mm) Det: Ch-B-7b136
Process Host: XAWRK023

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
2 PCB-1221							
1	1.535	1.533	0.002	16449	0.5000	0.5000	
1	1.943	1.944	-0.001	7723	0.5000	0.5000	
1	2.109	2.109	0.000	15719	0.5000	0.5000	
1	2.229	2.231	-0.002	45735	0.5000	0.5000	
		Average of Peak Amounts =				0.5000	
2	1.293	1.292	0.001	15336	0.5000	0.5000	
2	1.697	1.698	-0.001	6964	0.5000	0.5000	
2	1.787	1.788	-0.001	13674	0.5000	0.5000	
2	1.931	1.933	-0.002	42948	0.5000	0.5000	
		Average of Peak Amounts =				0.5000	
						RPD = 0.00	

Reagents:

AR1221.5ng_00015 Amount Added: 1.00 Units: mL

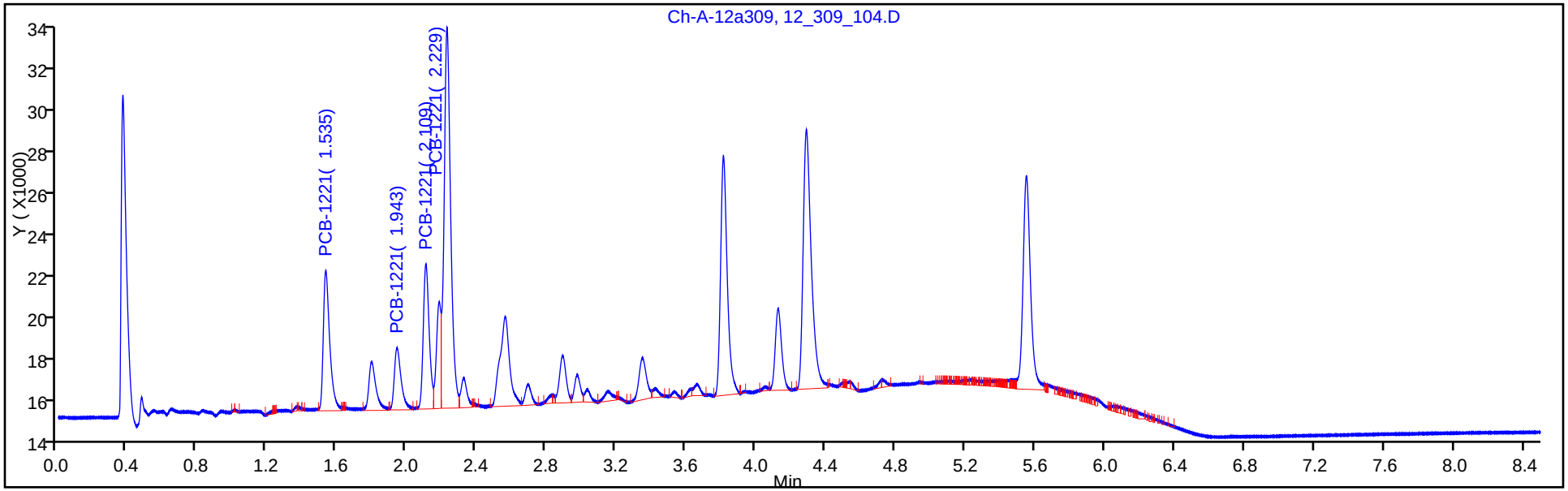
Report Date: 03-Oct-2014 09:17:23 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Buffalo

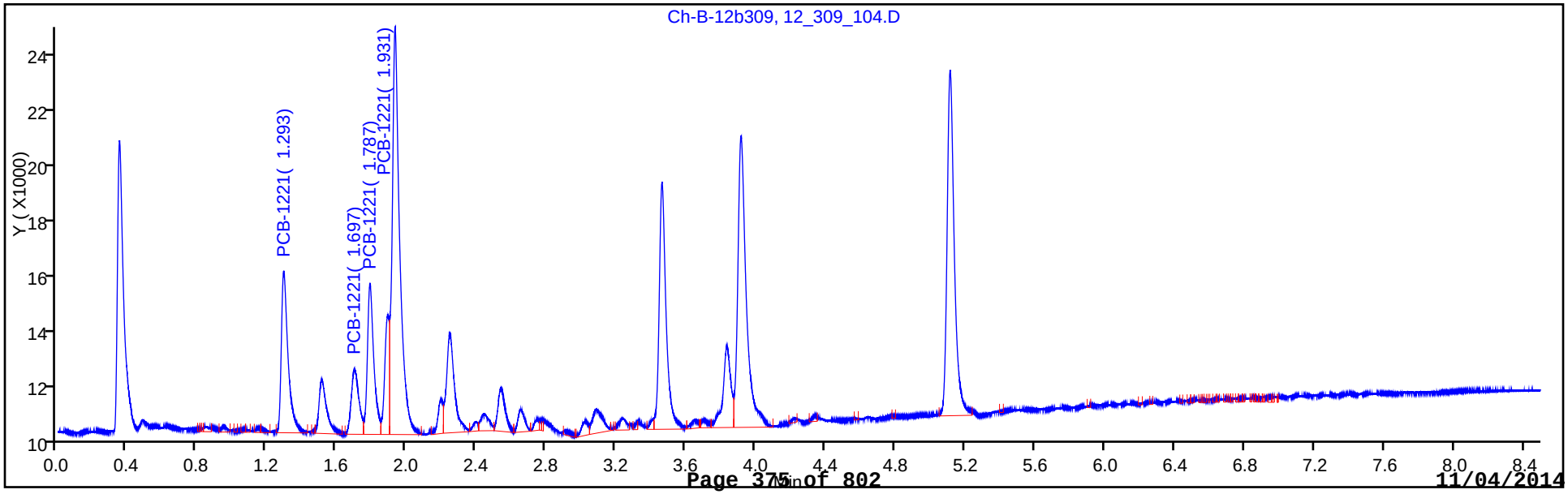
Data File: \\Bufchrom\ChromData\HP5890-12\20141002-35967.b\12_309_104.D

Injection Date:	03-Oct-2014 07:07:31	Instrument ID:	HP5890-12	Operator ID:	buftchrom
Lims ID:	STD21			Worklist Smp#:	26
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	hp12_pcb	Limit Group:	GC - 8082A PCB ICAL		

Column: ZB-5 (0.25 mm)



Column: ZB-35 (0.53 mm)



FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-70101-1 Analy Batch No.: 205708

SDG No.:

Instrument ID: HP5890-12 GC Column: ZB-35 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/03/2014 07:07 Calibration End Date: 10/03/2014 07:07 Calibration ID: 20530

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD21 480-205708/26	12_309_104.D

ANALYTE	LVL 1										RT WINDOW	AVG RT
PCB-1221 Peak 1	1.293										1.262 - 1.322	1.293
PCB-1221 Peak 2	1.697										1.668 - 1.728	1.697
PCB-1221 Peak 3	1.787										1.758 - 1.818	1.787
PCB-1221 Peak 4	1.931										1.903 - 1.963	1.931

FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-70101-1 Analy Batch No.: 205708

SDG No.:

Instrument ID: HP5890-12 GC Column: ZB-35 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/03/2014 07:07 Calibration End Date: 10/03/2014 07:07 Calibration ID: 20530

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD21 480-205708/26	12_309_104.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1					B	M1	M2								
PCB-1221 Peak 1	30672				Ave		30672.0000						20.0			
PCB-1221 Peak 2	13928				Ave		13928.0000						20.0			
PCB-1221 Peak 3	27348				Ave		27348.0000						20.0			
PCB-1221 Peak 4	85896				Ave		85896.0000						20.0			

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

FORM VI

PCBS INITIAL CALIBRATION DATA

EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-70101-1 Analy Batch No.: 205708

SDG No.:

Instrument ID: HP5890-12 GC Column: ZB-35 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/03/2014 07:07 Calibration End Date: 10/03/2014 07:07 Calibration ID: 20530

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD21 480-205708/26	12_309_104.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
		LVL 1					LVL 1				
PCB-1221 Peak 1	Ave	15336					0.500				
PCB-1221 Peak 2	Ave	6964					0.500				
PCB-1221 Peak 3	Ave	13674					0.500				
PCB-1221 Peak 4	Ave	42948					0.500				

Curve Type Legend:

Ave = Average

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5890-12\20141002-35967.b\12_309_104.D
Lims ID: STD21
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 03-Oct-2014 07:07:31 ALS Bottle#: 0 Worklist Smp#: 26
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: buftchrom Instrument ID: HP5890-12
Sublist: chrom-hp12_pcb*sub3

Method: \\Bufchrom\ChromData\HP5890-12\20141002-35967.b\hp12_pcb.m
Limit Group: GC - 8082A PCB ICAL
Last Update: 03-Oct-2014 09:17:23 Calib Date: 03-Oct-2014 08:06:59
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5890-12\20141002-35967.b\12_309_108.D

Column 1 : ZB-5 (0.25 mm) Det: Ch-A-7A136
Column 2 : ZB-35 (0.53 mm) Det: Ch-B-7b136
Process Host: XAWRK023

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
2 PCB-1221							
1	1.535	1.533	0.002	16449	0.5000	0.5000	
1	1.943	1.944	-0.001	7723	0.5000	0.5000	
1	2.109	2.109	0.000	15719	0.5000	0.5000	
1	2.229	2.231	-0.002	45735	0.5000	0.5000	
		Average of Peak Amounts =				0.5000	
2	1.293	1.292	0.001	15336	0.5000	0.5000	
2	1.697	1.698	-0.001	6964	0.5000	0.5000	
2	1.787	1.788	-0.001	13674	0.5000	0.5000	
2	1.931	1.933	-0.002	42948	0.5000	0.5000	
		Average of Peak Amounts =				0.5000	
						RPD = 0.00	

Reagents:

AR1221.5ng_00015 Amount Added: 1.00 Units: mL

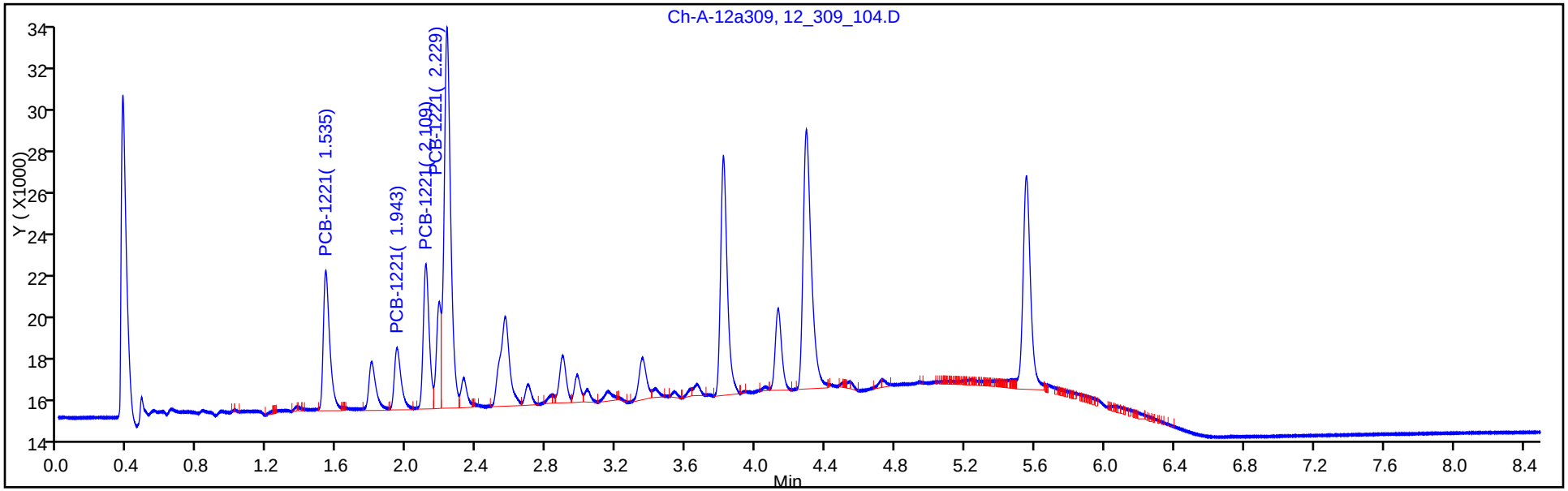
Report Date: 03-Oct-2014 09:17:24 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Buffalo

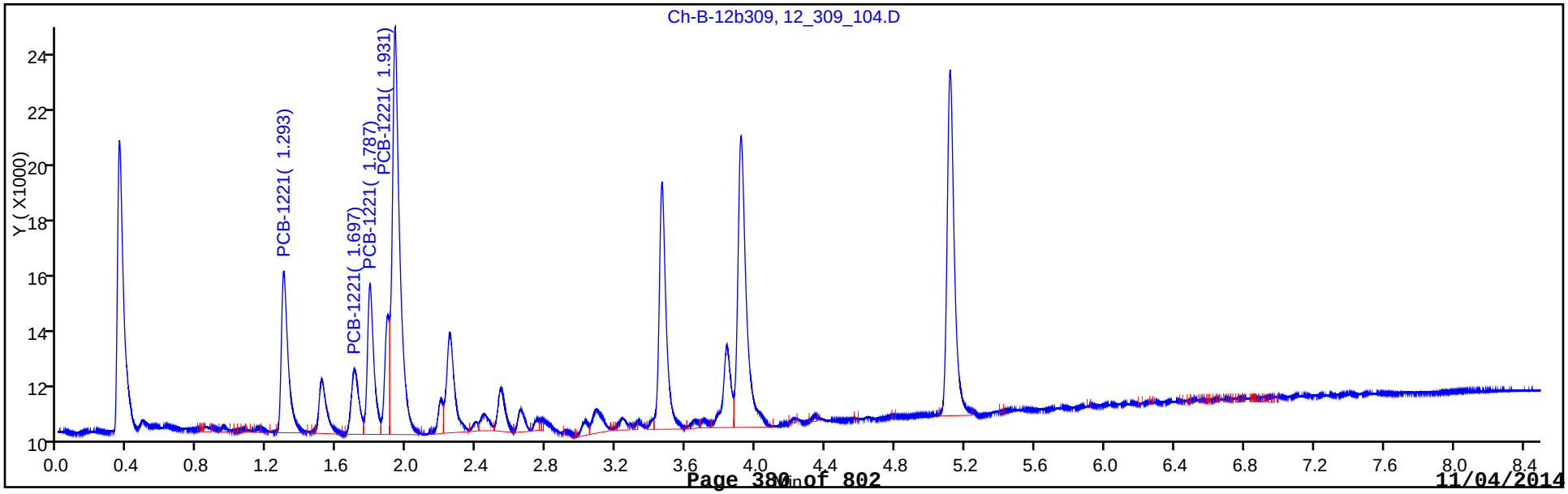
Data File: \\Bufchrom\ChromData\HP5890-12\20141002-35967.b\12_309_104.D

Injection Date:	03-Oct-2014 07:07:31	Instrument ID:	HP5890-12	Operator ID:	buftchrom
Lims ID:	STD21			Worklist Smp#:	26
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	hp12_pcb	Limit Group:	GC - 8082A PCB ICAL		

Column: ZB-5 (0.25 mm)



Column: ZB-35 (0.53 mm)



FORM VI

PCBS INITIAL CALIBRATION DATA

EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-70101-1 Analy Batch No.: 205708

SDG No.:

Instrument ID: HP5890-12 GC Column: ZB-5 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/03/2014 07:37 Calibration End Date: 10/03/2014 07:37 Calibration ID: 20535

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD32 480-205708/28	12_309_106.D

ANALYTE	LVL 1										RT WINDOW	AVG RT
PCB-1232 Peak 1	1.533										1.503 - 1.563	1.533
PCB-1232 Peak 2	2.552										2.522 - 2.582	2.552
PCB-1232 Peak 3	2.890										2.860 - 2.920	2.890
PCB-1232 Peak 4	2.975										2.945 - 3.005	2.975

FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-70101-1 Analy Batch No.: 205708

SDG No.:

Instrument ID: HP5890-12 GC Column: ZB-5 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/03/2014 07:37 Calibration End Date: 10/03/2014 07:37 Calibration ID: 20535

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD32 480-205708/28	12_309_106.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1					B	M1	M2								
PCB-1232 Peak 1	20272				Ave		20272.0000						20.0			
PCB-1232 Peak 2	76088				Ave		76088.0000						20.0			
PCB-1232 Peak 3	94702				Ave		94702.0000						20.0			
PCB-1232 Peak 4	39824				Ave		39824.0000						20.0			

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

FORM VI

PCBS INITIAL CALIBRATION DATA

EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-70101-1 Analy Batch No.: 205708

SDG No.:

Instrument ID: HP5890-12 GC Column: ZB-5 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/03/2014 07:37 Calibration End Date: 10/03/2014 07:37 Calibration ID: 20535

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD32 480-205708/28	12_309_106.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
		LVL 1					LVL 1				
PCB-1232 Peak 1	Ave	10136					0.500				
PCB-1232 Peak 2	Ave	38044					0.500				
PCB-1232 Peak 3	Ave	47351					0.500				
PCB-1232 Peak 4	Ave	19912					0.500				

Curve Type Legend:

Ave = Average

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5890-12\20141002-35967.b\12_309_106.D
Lims ID: STD32
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 03-Oct-2014 07:37:16 ALS Bottle#: 0 Worklist Smp#: 28
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: buftchrom Instrument ID: HP5890-12
Sublist: chrom-hp12_pcb*sub4

Method: \\Bufchrom\ChromData\HP5890-12\20141002-35967.b\hp12_pcb.m
Limit Group: GC - 8082A PCB ICAL
Last Update: 03-Oct-2014 09:17:25 Calib Date: 03-Oct-2014 08:06:59
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5890-12\20141002-35967.b\12_309_108.D

Column 1 : ZB-5 (0.25 mm) Det: Ch-A-7A136
Column 2 : ZB-35 (0.53 mm) Det: Ch-B-7b136
Process Host: XAWRK023

First Level Reviewer: eversd Date: 03-Oct-2014 08:33:36

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
5 PCB-1232							
1	1.533	1.533	0.000	10136	0.5000	0.5000	a
1	2.552	2.552	0.000	38044	0.5000	0.5000	a
1	2.890	2.890	0.000	47351	0.5000	0.5000	a
1	2.975	2.975	0.000	19912	0.5000	0.5000	a
		Average of Peak Amounts =				0.5000	
2	1.294	1.294	0.000	9798	0.5000	0.5000	a
2	2.239	2.239	0.000	34883	0.5000	0.5000	a
2	2.537	2.537	0.000	39324	0.5000	0.5000	a
2	2.652	2.652	0.000	18087	0.5000	0.5000	a
		Average of Peak Amounts =				0.5000	
						RPD = 0.00	

Reagents:

AR1232.5ng_00007 Amount Added: 1.00 Units: mL

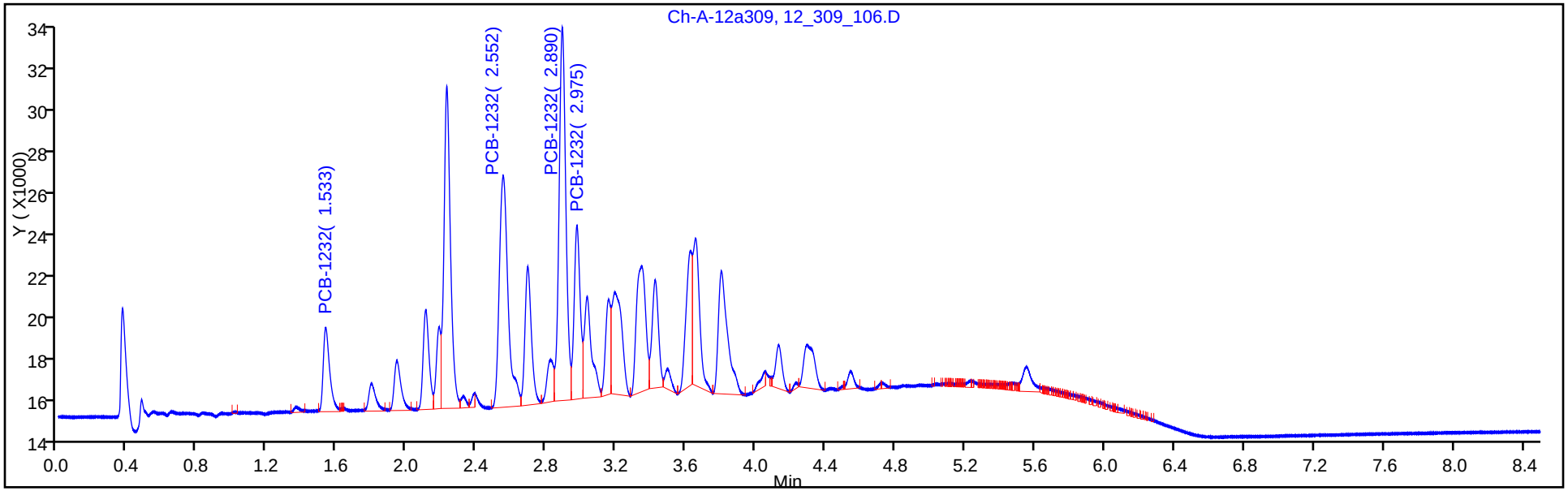
Report Date: 03-Oct-2014 09:17:25 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Buffalo

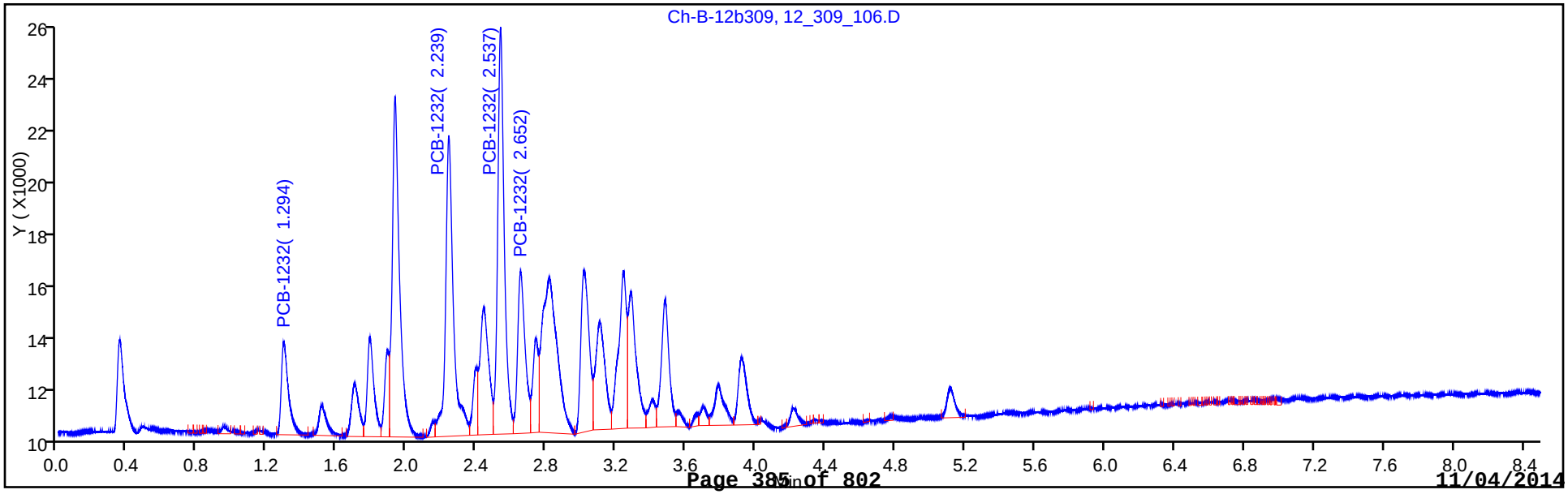
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Injection Date:	03-Oct-2014 07:37:16	Instrument ID:	HP5890-12	Operator ID:	buftchrom
Lims ID:	STD32			Worklist Smp#:	28
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	hp12_pcb	Limit Group:	GC - 8082A PCB ICAL		

Column: ZB-5 (0.25 mm)



Column: ZB-35 (0.53 mm)



FORM VI

PCBS INITIAL CALIBRATION DATA

EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-70101-1 Analy Batch No.: 205708

SDG No.:

Instrument ID: HP5890-12 GC Column: ZB-35 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/03/2014 07:37 Calibration End Date: 10/03/2014 07:37 Calibration ID: 20536

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD32 480-205708/28	12_309_106.D

ANALYTE	LVL 1										RT WINDOW	AVG RT
PCB-1232 Peak 1	1.294										1.264 - 1.324	1.294
PCB-1232 Peak 2	2.239										2.209 - 2.269	2.239
PCB-1232 Peak 3	2.537										2.507 - 2.567	2.537
PCB-1232 Peak 4	2.652										2.622 - 2.682	2.652

FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-70101-1 Analy Batch No.: 205708

SDG No.:

Instrument ID: HP5890-12 GC Column: ZB-35 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/03/2014 07:37 Calibration End Date: 10/03/2014 07:37 Calibration ID: 20536

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD32 480-205708/28	12_309_106.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1					B	M1	M2								
PCB-1232 Peak 1	19596				Ave		19596.0000						20.0			
PCB-1232 Peak 2	69766				Ave		69766.0000						20.0			
PCB-1232 Peak 3	78648				Ave		78648.0000						20.0			
PCB-1232 Peak 4	36174				Ave		36174.0000						20.0			

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

FORM VI

PCBS INITIAL CALIBRATION DATA

EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-70101-1 Analy Batch No.: 205708

SDG No.:

Instrument ID: HP5890-12 GC Column: ZB-35 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/03/2014 07:37 Calibration End Date: 10/03/2014 07:37 Calibration ID: 20536

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD32 480-205708/28	12_309_106.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
		LVL 1					LVL 1				
PCB-1232 Peak 1	Ave	9798					0.500				
PCB-1232 Peak 2	Ave	34883					0.500				
PCB-1232 Peak 3	Ave	39324					0.500				
PCB-1232 Peak 4	Ave	18087					0.500				

Curve Type Legend:

Ave = Average

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5890-12\20141002-35967.b\12_309_106.D
Lims ID: STD32
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 03-Oct-2014 07:37:16 ALS Bottle#: 0 Worklist Smp#: 28
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: buftchrom Instrument ID: HP5890-12
Sublist: chrom-hp12_pcb*sub4

Method: \\Bufchrom\ChromData\HP5890-12\20141002-35967.b\hp12_pcb.m
Limit Group: GC - 8082A PCB ICAL
Last Update: 03-Oct-2014 09:17:25 Calib Date: 03-Oct-2014 08:06:59
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5890-12\20141002-35967.b\12_309_108.D

Column 1 : ZB-5 (0.25 mm) Det: Ch-A-7A136
Column 2 : ZB-35 (0.53 mm) Det: Ch-B-7b136
Process Host: XAWRK023

First Level Reviewer: eversd Date: 03-Oct-2014 08:33:36

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
5 PCB-1232							
1	1.533	1.533	0.000	10136	0.5000	0.5000	a
1	2.552	2.552	0.000	38044	0.5000	0.5000	a
1	2.890	2.890	0.000	47351	0.5000	0.5000	a
1	2.975	2.975	0.000	19912	0.5000	0.5000	a
		Average of Peak Amounts =				0.5000	
2	1.294	1.294	0.000	9798	0.5000	0.5000	a
2	2.239	2.239	0.000	34883	0.5000	0.5000	a
2	2.537	2.537	0.000	39324	0.5000	0.5000	a
2	2.652	2.652	0.000	18087	0.5000	0.5000	a
		Average of Peak Amounts =				0.5000	
						RPD = 0.00	

Reagents:

AR1232.5ng_00007 Amount Added: 1.00 Units: mL

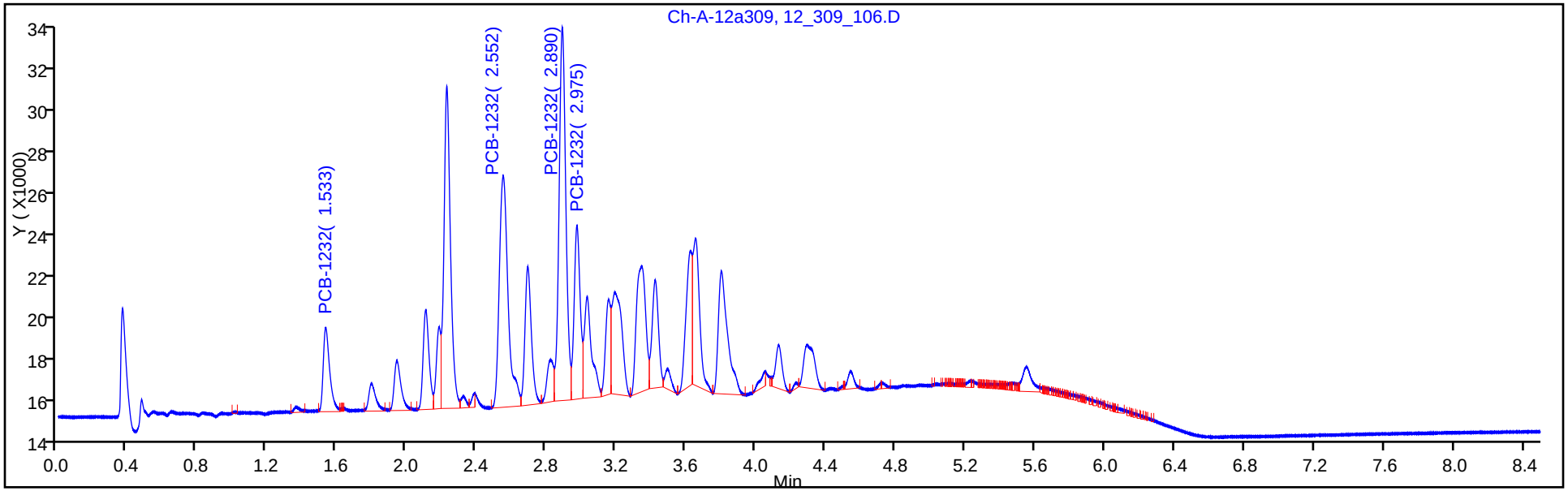
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TestAmerica Buffalo

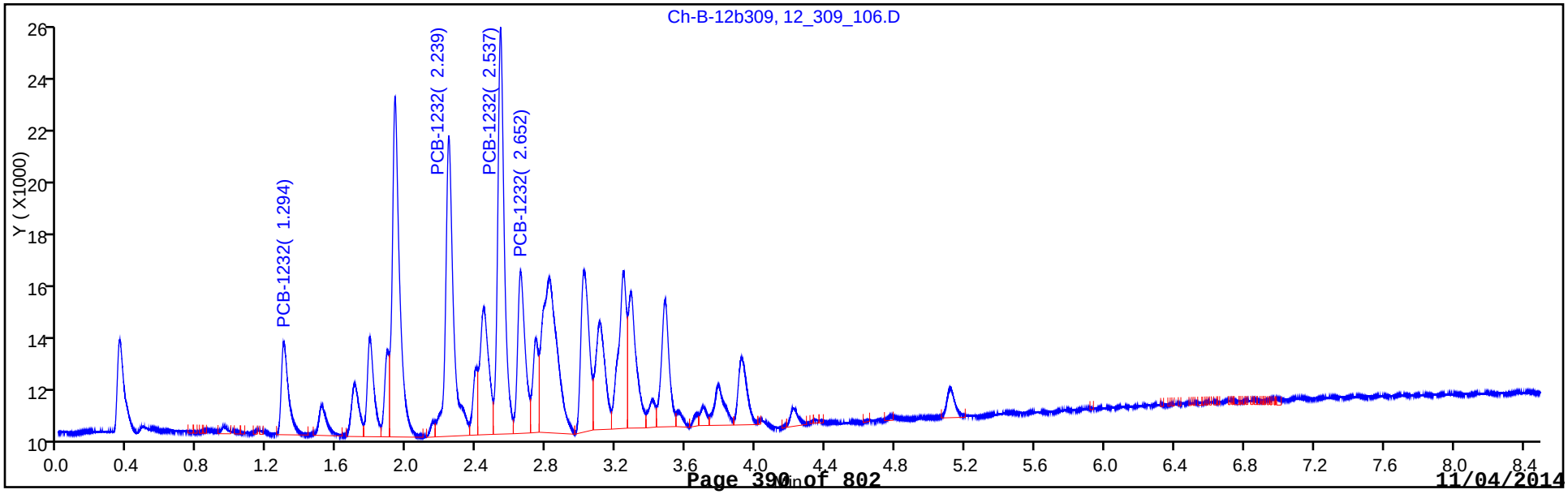
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Injection Date:	03-Oct-2014 07:37:16	Instrument ID:	HP5890-12	Operator ID:	buftchrom
Lims ID:	STD32			Worklist Smp#:	28
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	hp12_pcb	Limit Group:	GC - 8082A PCB ICAL		

Column: ZB-5 (0.25 mm)



Column: ZB-35 (0.53 mm)



FORM VI

PCBS INITIAL CALIBRATION DATA

EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-70101-1 Analy Batch No.: 205708

SDG No.:

Instrument ID: HP5890-12 GC Column: ZB-5 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/03/2014 08:06 Calibration End Date: 10/03/2014 08:06 Calibration ID: 20541

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD42 480-205708/30	12_309_108.D

ANALYTE	LVL 1										RT WINDOW	AVG RT
PCB-1242 Peak 1	2.889										2.859 - 2.919	2.889
PCB-1242 Peak 2	3.032										3.002 - 3.062	3.032
PCB-1242 Peak 3	3.423										3.393 - 3.453	3.423
PCB-1242 Peak 4	3.798										3.768 - 3.828	3.798

FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-70101-1 Analy Batch No.: 205708

SDG No.:

Instrument ID: HP5890-12 GC Column: ZB-5 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/03/2014 08:06 Calibration End Date: 10/03/2014 08:06 Calibration ID: 20541

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD42 480-205708/30	12_309_108.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1					B	M1	M2								
PCB-1242 Peak 1	182864				Ave		182864.000						20.0			
PCB-1242 Peak 2	61792				Ave		61792.0000						20.0			
PCB-1242 Peak 3	66776				Ave		66776.0000						20.0			
PCB-1242 Peak 4	85718				Ave		85718.0000						20.0			

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

FORM VI

PCBS INITIAL CALIBRATION DATA

EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-70101-1 Analy Batch No.: 205708

SDG No.:

Instrument ID: HP5890-12 GC Column: ZB-5 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/03/2014 08:06 Calibration End Date: 10/03/2014 08:06 Calibration ID: 20541

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD42 480-205708/30	12_309_108.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
		LVL 1					LVL 1				
PCB-1242 Peak 1	Ave	91432					0.500				
PCB-1242 Peak 2	Ave	30896					0.500				
PCB-1242 Peak 3	Ave	33388					0.500				
PCB-1242 Peak 4	Ave	42859					0.500				

Curve Type Legend:

Ave = Average

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5890-12\20141002-35967.b\12_309_108.D
Lims ID: STD42
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 03-Oct-2014 08:06:59 ALS Bottle#: 0 Worklist Smp#: 30
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: buftchrom Instrument ID: HP5890-12
Sublist: chrom-hp12_pcb*sub5

Method: \\Bufchrom\ChromData\HP5890-12\20141002-35967.b\hp12_pcb.m
Limit Group: GC - 8082A PCB ICAL
Last Update: 03-Oct-2014 09:17:27 Calib Date: 03-Oct-2014 08:06:59
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5890-12\20141002-35967.b\12_309_108.D

Column 1 : ZB-5 (0.25 mm) Det: Ch-A-7A136
Column 2 : ZB-35 (0.53 mm) Det: Ch-B-7b136
Process Host: XAWRK023

First Level Reviewer: eversd Date: 03-Oct-2014 08:49:30

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
4 PCB-1242							
1	2.889	2.889	0.000	91432	0.5000	0.5000	a
1	3.032	3.032	0.000	30896	0.5000	0.5000	a
1	3.423	3.423	0.000	33388	0.5000	0.5000	a
1	3.798	3.798	0.000	42859	0.5000	0.5000	a
		Average of Peak Amounts =				0.5000	
2	2.237	2.237	0.000	49803	0.5000	0.5000	a
2	2.437	2.437	0.000	30431	0.5000	0.5000	a
2	2.813	2.813	0.000	72697	0.5000	0.5000	
2	3.011	3.011	0.000	41555	0.5000	0.5000	
		Average of Peak Amounts =				0.5000	
						RPD = 0.00	

Reagents:

AR1242.5ng_00007 Amount Added: 1.00 Units: mL

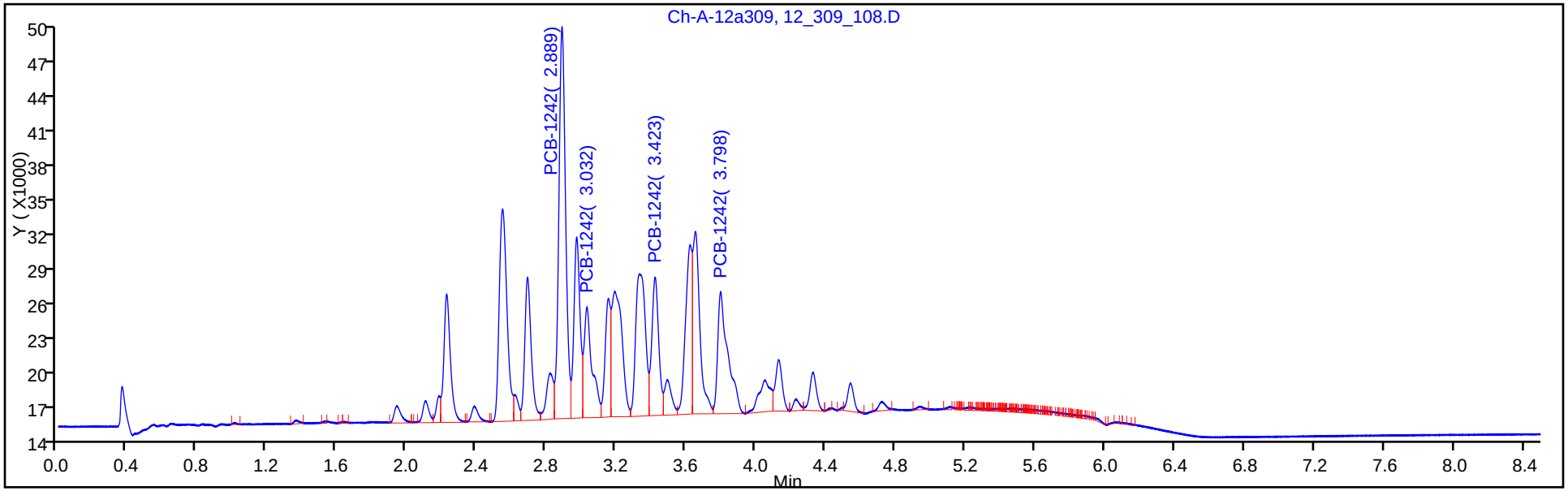
Report Date: 03-Oct-2014 09:17:28 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Buffalo

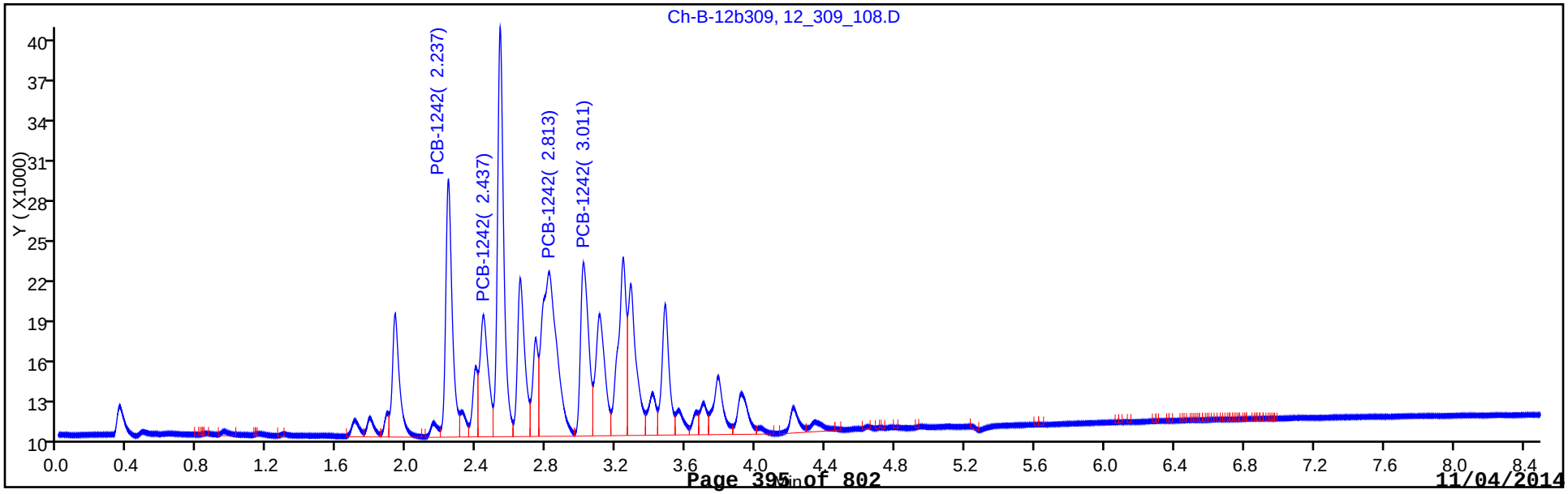
Data File: \\Bufchrom\ChromData\HP5890-12\20141002-35967.b\12_309_108.D

Injection Date:	03-Oct-2014 08:06:59	Instrument ID:	HP5890-12	Operator ID:	buftchrom
Lims ID:	STD42			Worklist Smp#:	30
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	hp12_pcb	Limit Group:	GC - 8082A PCB ICAL		

Column: ZB-5 (0.25 mm)



Column: ZB-35 (0.53 mm)



FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-70101-1 Analy Batch No.: 205708

SDG No.:

Instrument ID: HP5890-12 GC Column: ZB-35 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/03/2014 08:06 Calibration End Date: 10/03/2014 08:06 Calibration ID: 20542

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD42 480-205708/30	12_309_108.D

ANALYTE	LVL 1										RT WINDOW	AVG RT
PCB-1242 Peak 1	2.237										2.207 - 2.267	2.237
PCB-1242 Peak 2	2.437										2.407 - 2.467	2.437
PCB-1242 Peak 3	2.813										2.783 - 2.843	2.813
PCB-1242 Peak 4	3.011										2.981 - 3.041	3.011

FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-70101-1 Analy Batch No.: 205708

SDG No.:

Instrument ID: HP5890-12 GC Column: ZB-35 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/03/2014 08:06 Calibration End Date: 10/03/2014 08:06 Calibration ID: 20542

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD42 480-205708/30	12_309_108.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1					B	M1	M2								
PCB-1242 Peak 1	99606				Ave		99606.0000						20.0			
PCB-1242 Peak 2	60862				Ave		60862.0000						20.0			
PCB-1242 Peak 3	145394				Ave		145394.000						20.0			
PCB-1242 Peak 4	83110				Ave		83110.0000						20.0			

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

FORM VI

PCBS INITIAL CALIBRATION DATA

EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-70101-1 Analy Batch No.: 205708

SDG No.:

Instrument ID: HP5890-12 GC Column: ZB-35 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/03/2014 08:06 Calibration End Date: 10/03/2014 08:06 Calibration ID: 20542

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD42 480-205708/30	12_309_108.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
		LVL 1					LVL 1				
PCB-1242 Peak 1	Ave	49803					0.500				
PCB-1242 Peak 2	Ave	30431					0.500				
PCB-1242 Peak 3	Ave	72697					0.500				
PCB-1242 Peak 4	Ave	41555					0.500				

Curve Type Legend:

Ave = Average

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5890-12\20141002-35967.b\12_309_108.D
Lims ID: STD42
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 03-Oct-2014 08:06:59 ALS Bottle#: 0 Worklist Smp#: 30
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: buftchrom Instrument ID: HP5890-12
Sublist: chrom-hp12_pcb*sub5

Method: \\Bufchrom\ChromData\HP5890-12\20141002-35967.b\hp12_pcb.m
Limit Group: GC - 8082A PCB ICAL
Last Update: 03-Oct-2014 09:17:27 Calib Date: 03-Oct-2014 08:06:59
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5890-12\20141002-35967.b\12_309_108.D

Column 1 : ZB-5 (0.25 mm) Det: Ch-A-7A136
Column 2 : ZB-35 (0.53 mm) Det: Ch-B-7b136
Process Host: XAWRK023

First Level Reviewer: eversd Date: 03-Oct-2014 08:49:30

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
4 PCB-1242							
1	2.889	2.889	0.000	91432	0.5000	0.5000	a
1	3.032	3.032	0.000	30896	0.5000	0.5000	a
1	3.423	3.423	0.000	33388	0.5000	0.5000	a
1	3.798	3.798	0.000	42859	0.5000	0.5000	a
		Average of Peak Amounts =				0.5000	
2	2.237	2.237	0.000	49803	0.5000	0.5000	a
2	2.437	2.437	0.000	30431	0.5000	0.5000	a
2	2.813	2.813	0.000	72697	0.5000	0.5000	
2	3.011	3.011	0.000	41555	0.5000	0.5000	
		Average of Peak Amounts =				0.5000	
						RPD = 0.00	

Reagents:

AR1242.5ng_00007 Amount Added: 1.00 Units: mL

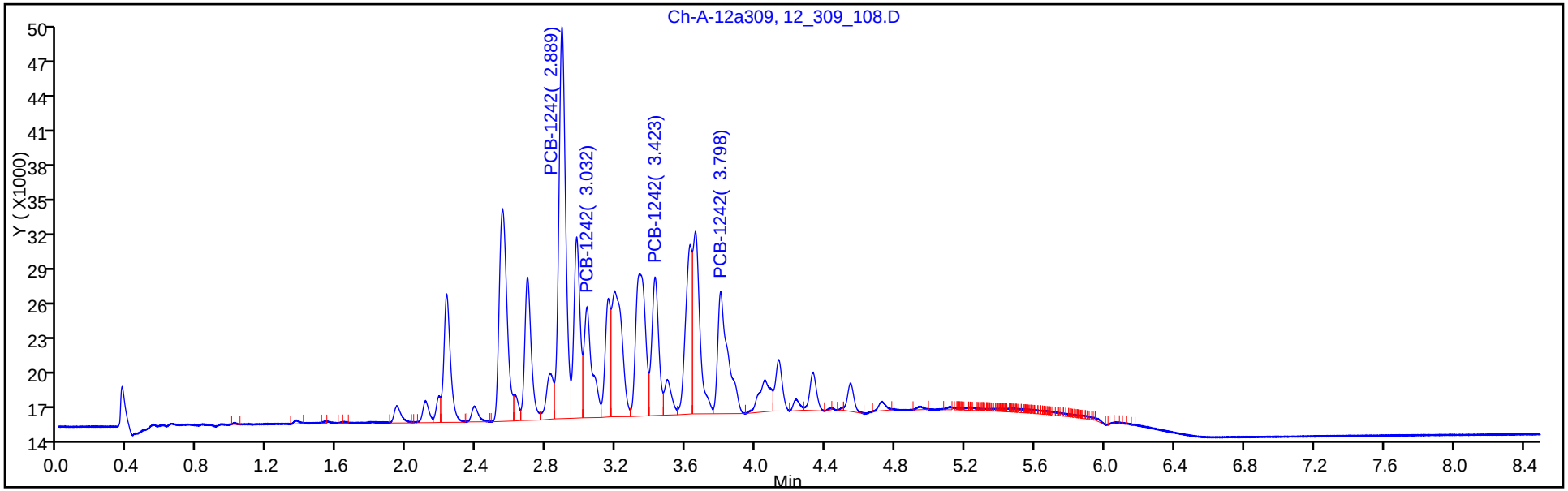
Report Date: 03-Oct-2014 09:17:28 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Buffalo

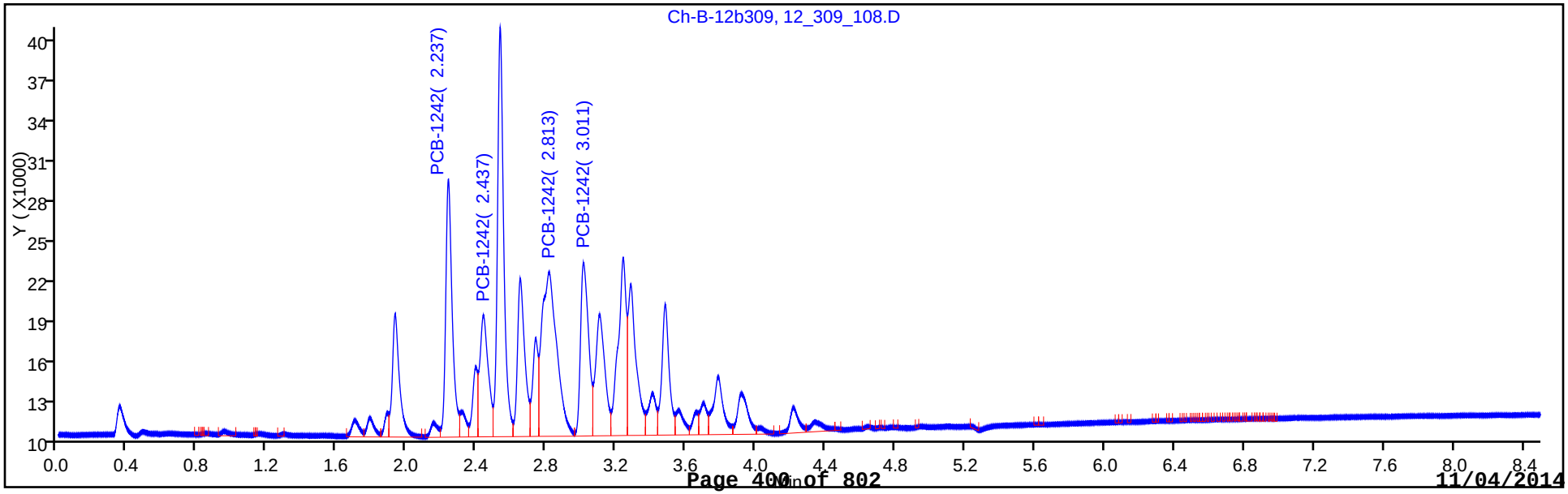
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Injection Date:	03-Oct-2014 08:06:59	Instrument ID:	HP5890-12	Operator ID:	buftchrom
Lims ID:	STD42			Worklist Smp#:	30
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	hp12_pcb	Limit Group:	GC - 8082A PCB ICAL		

Column: ZB-5 (0.25 mm)



Column: ZB-35 (0.53 mm)



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-70101-1

SDG No.:

Lab Sample ID: CCV 480-210455/1 Calibration Date: 10/28/2014 08:46

Instrument ID: HP5890-12 Calib Start Date: 10/02/2014 17:33

GC Column: ZB-5 ID: 0.25(mm) Calib End Date: 10/02/2014 19:02

Lab File ID: 12_312_162.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Ave	128987	135032		0.523	0.500	4.7	20.0
PCB-1016 Peak 2	Ave	75860	73322		0.483	0.500	-3.3	20.0
PCB-1016 Peak 3	Ave	207150	207718		0.501	0.500	0.3	20.0
PCB-1016 Peak 4	Ave	88329	87912		0.498	0.500	-0.5	20.0
PCB-1260 Peak 1	Ave	233183	242546		0.520	0.500	4.0	20.0
PCB-1260 Peak 2	Ave	219760	226662		0.516	0.500	3.1	20.0
PCB-1260 Peak 3	Ave	150055	157330		0.524	0.500	4.8	20.0
PCB-1260 Peak 4	Ave	235060	224248		0.477	0.500	-4.6	20.0
Tetrachloro-m-xylene	Lin		2506500		0.0285	0.0300	-4.8	20.0
DCB Decachlorobiphenyl	Ave	2410189	2802333		0.0349	0.0300	16.3	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-70101-1

SDG No.:

Lab Sample ID: CCV 480-210455/1 Calibration Date: 10/28/2014 08:46

Instrument ID: HP5890-12 Calib Start Date: 10/02/2014 17:33

GC Column: ZB-5 ID: 0.25(mm) Calib End Date: 10/02/2014 19:02

Lab File ID: 12_312_162.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	2.56	2.53	2.59
PCB-1016 Peak 2	2.71	2.68	2.74
PCB-1016 Peak 3	2.90	2.87	2.93
PCB-1016 Peak 4	2.99	2.96	3.02
PCB-1260 Peak 1	4.50	4.47	4.53
PCB-1260 Peak 2	4.73	4.70	4.76
PCB-1260 Peak 3	4.85	4.82	4.88
PCB-1260 Peak 4	5.24	5.21	5.27
Tetrachloro-m-xylene	1.98	1.95	2.01
DCB Decachlorobiphenyl	6.73	6.70	6.76

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5890-12\20141028-36794.b\12_312_162.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 28-Oct-2014 08:46:44 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: buftchrom Instrument ID: HP5890-12
Sublist: chrom-hp12_pcb*sub21

Method: \\Bufchrom\ChromData\HP5890-12\20141028-36794.b\hp12_pcb.m
Limit Group: GC - 8082A PCB ICAL
Last Update: 28-Oct-2014 14:04:38 Calib Date: 03-Oct-2014 08:06:59
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5890-12\20141002-35967.b\12_309_108.D

Column 1 : ZB-5 (0.25 mm) Det: Ch-A-7A136
Column 2 : ZB-35 (0.53 mm) Det: Ch-B-7b136
Process Host: XAWRK021

First Level Reviewer: eversd Date: 28-Oct-2014 14:04:38

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
$ 3 Tetrachloro-m-xylene							
1	1.983	1.983	0.000	75195	0.0300	0.0285	
2	1.561	1.561	0.000	58131	0.0300	0.0286	
						RPD = 0.14	
6 PCB-1016							
1	2.563	2.563	0.000	67516	0.5000	0.5234	
1	2.706	2.706	0.000	36661	0.5000	0.4833	
1	2.903	2.903	0.000	103859	0.5000	0.5014	
1	2.987	2.987	0.000	43956	0.5000	0.4976	
		Average of Peak Amounts =				0.5014	
2	2.450	2.450	0.000	32802	0.5000	0.4928	
2	2.547	2.547	0.000	84136	0.5000	0.4916	
2	2.662	2.662	0.000	37344	0.5000	0.4881	
2	3.023	3.023	0.000	43277	0.5000	0.4825	
		Average of Peak Amounts =				0.4888	
						RPD = 2.56	
9 PCB-1260							M
1	4.503	4.503	0.000	121273	0.5000	0.5201	M
1	4.726	4.726	0.000	113331	0.5000	0.5157	M
1	4.853	4.853	0.000	78665	0.5000	0.5242	M
1	5.237	5.237	0.000	112124	0.5000	0.4770	M
		Average of Peak Amounts =				0.5093	
2	4.338	4.338	0.000	101119	0.5000	0.4831	
2	4.643	4.643	0.000	43728	0.5000	0.4636	
2	4.709	4.709	0.000	39219	0.5000	0.4836	
2	4.775	4.775	0.000	109221	0.5000	0.4790	
		Average of Peak Amounts =				0.4773	
						RPD = 6.47	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
$ 12 DCB Decachlorobiphenyl							
1	6.734	6.734	0.000	84070	0.0300	0.0349	
2	6.045	6.045	0.000	82704	0.0300	0.0279	
						RPD = 22.28	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

AR1660 .5NG_00097	Amount Added:	1.00	Units: mL	
COPPER_00049	Amount Added:	1.00	Units: mL	Run Reagent

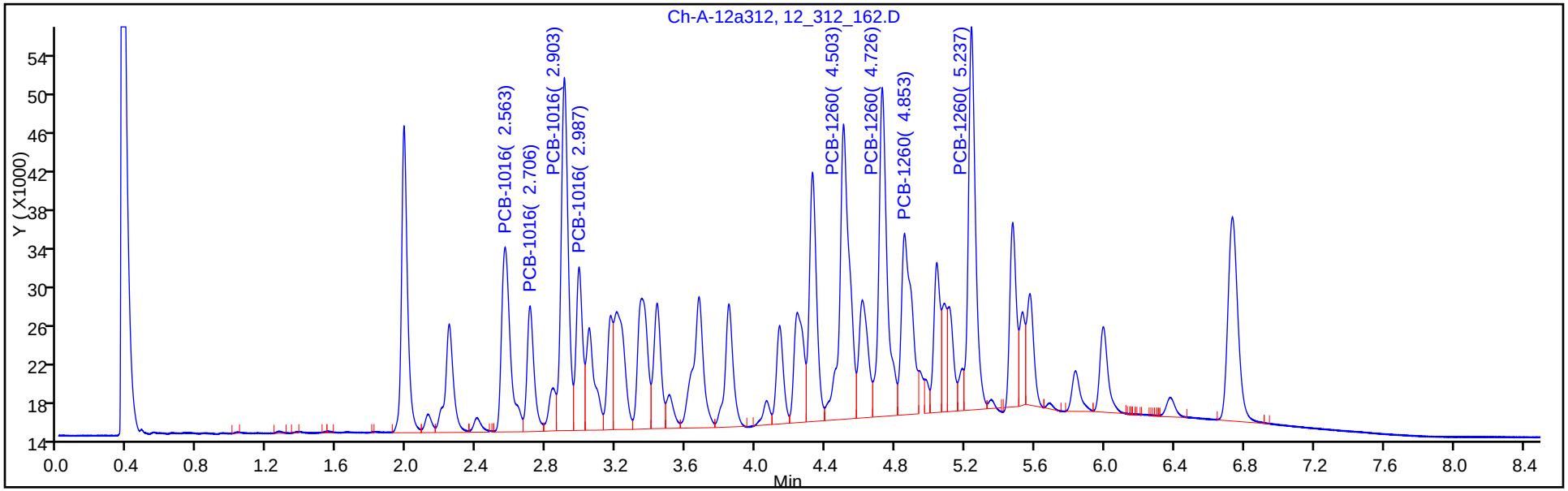
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TestAmerica Buffalo

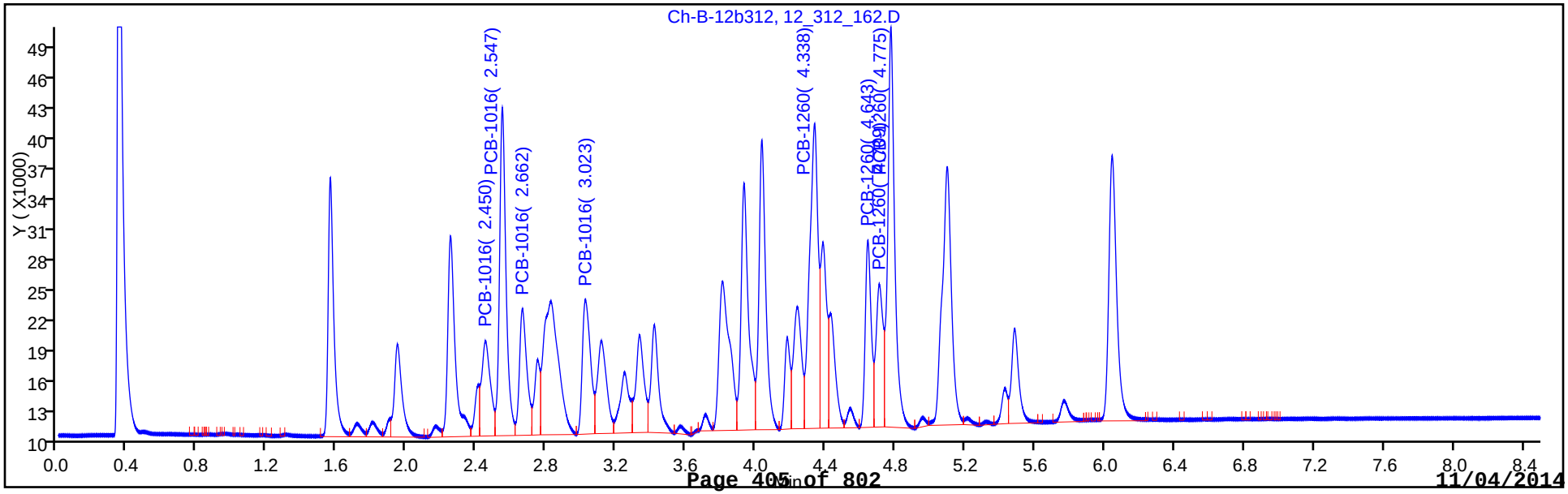
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Injection Date:	28-Oct-2014 08:46:44	Instrument ID:	HP5890-12	Operator ID:	buftchrom
Lims ID:	CCV			Worklist Smp#:	1
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	hp12_pcb	Limit Group:	GC - 8082A PCB ICAL		

Column: ZB-5 (0.25 mm)



Column: ZB-35 (0.53 mm)



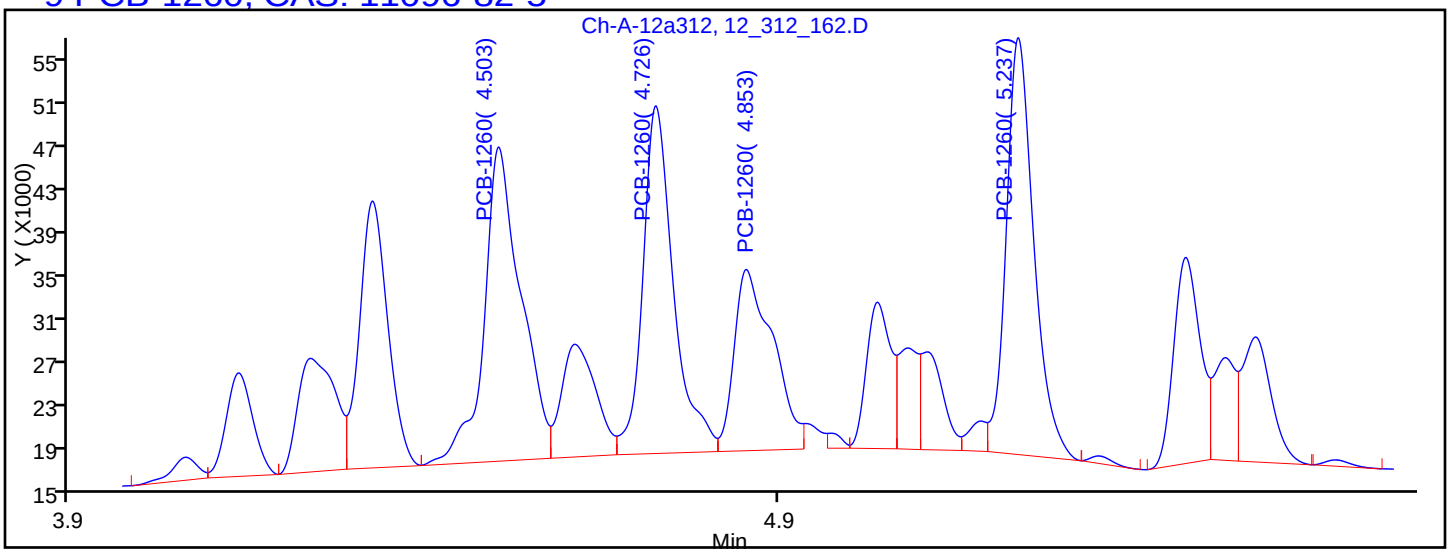
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TestAmerica Buffalo

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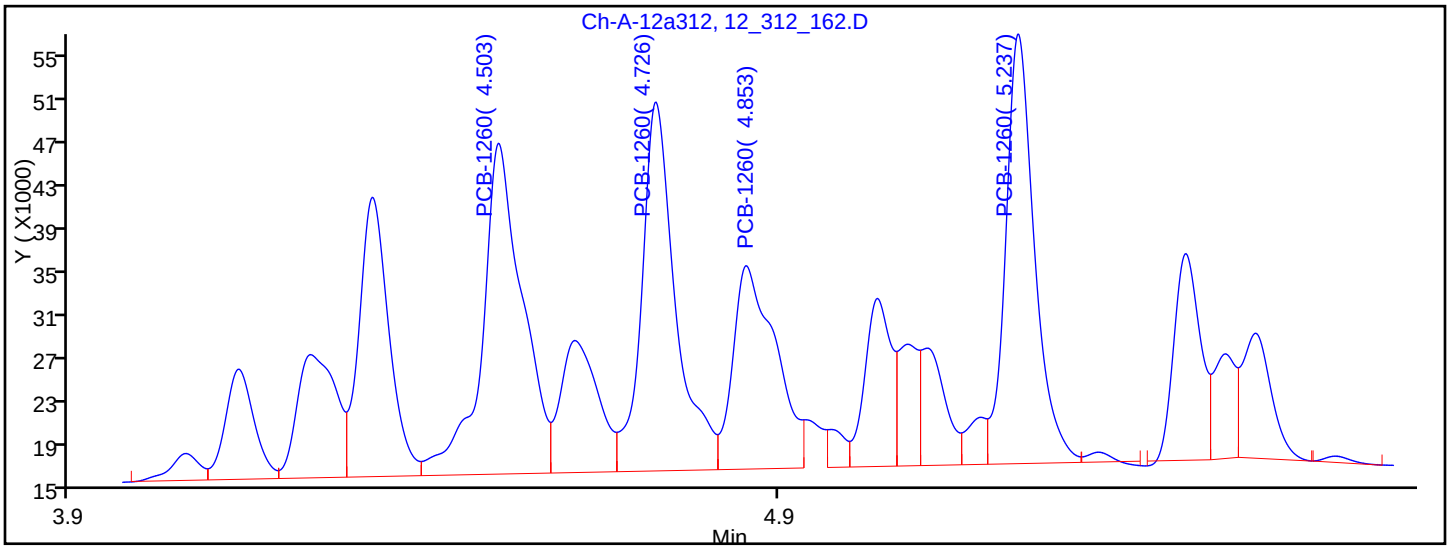
Injection Date:	28-Oct-2014 08:46:44	Instrument ID:	HP5890-12		
Lims ID:	CCV				
Client ID:					
Operator ID:	buftchrom	ALS Bottle#:	0	Worklist Smp#:	1
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	hp12_pcb	Limit Group:	GC - 8082A PCB ICAL		
Column:	ZB-5 (0.25 mm)	Detector	Ch-A-7A136		

9 PCB-1260, CAS: 11096-82-5



Processing Integration Results

RT = 4.503	Response = 104970	M
RT = 4.726	Response = 96557	M
RT = 4.853	Response = 63752	M
RT = 5.237	Response = 104185	M



Manual Integration Results

RT = 4.503	Response = 121273	M
RT = 4.726	Response = 113331	M
RT = 4.853	Response = 78665	M
RT = 5.237	Response = 112124	M

Reviewer: eversd, 28-Oct-2014 09:04:16

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-70101-1

SDG No.:

Lab Sample ID: CCV 480-210455/1 Calibration Date: 10/28/2014 08:46

Instrument ID: HP5890-12 Calib Start Date: 10/02/2014 17:33

GC Column: ZB-35 ID: 0.53(mm) Calib End Date: 10/02/2014 19:02

Lab File ID: 12_312_162.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Ave	66559	65604		0.493	0.500	-1.4	20.0
PCB-1016 Peak 2	Ave	171134	168272		0.492	0.500	-1.7	20.0
PCB-1016 Peak 3	Ave	76509	74688		0.488	0.500	-2.4	20.0
PCB-1016 Peak 4	Ave	89693	86554		0.483	0.500	-3.5	20.0
PCB-1260 Peak 1	Ave	209299	202238		0.483	0.500	-3.4	20.0
PCB-1260 Peak 2	Ave	94315	87456		0.464	0.500	-7.3	20.0
PCB-1260 Peak 3	Ave	81103	78438		0.484	0.500	-3.3	20.0
PCB-1260 Peak 4	Ave	228039	218442		0.479	0.500	-4.2	20.0
Tetrachloro-m-xylene	Lin		1937700		0.0286	0.0300	-4.7	20.0
DCB Decachlorobiphenyl	Ave	2965383	2756800		0.0279	0.0300	-7.0	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-70101-1

SDG No.:

Lab Sample ID: CCV 480-210455/1 Calibration Date: 10/28/2014 08:46

Instrument ID: HP5890-12 Calib Start Date: 10/02/2014 17:33

GC Column: ZB-35 ID: 0.53(mm) Calib End Date: 10/02/2014 19:02

Lab File ID: 12_312_162.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	2.45	2.42	2.48
PCB-1016 Peak 2	2.55	2.52	2.58
PCB-1016 Peak 3	2.66	2.63	2.69
PCB-1016 Peak 4	3.02	2.99	3.05
PCB-1260 Peak 1	4.34	4.31	4.37
PCB-1260 Peak 2	4.64	4.61	4.67
PCB-1260 Peak 3	4.71	4.68	4.74
PCB-1260 Peak 4	4.78	4.75	4.81
Tetrachloro-m-xylene	1.56	1.53	1.59
DCB Decachlorobiphenyl	6.05	6.02	6.08

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5890-12\20141028-36794.b\12_312_162.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 28-Oct-2014 08:46:44 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: buftchrom Instrument ID: HP5890-12
Sublist: chrom-hp12_pcb*sub21

Method: \\Bufchrom\ChromData\HP5890-12\20141028-36794.b\hp12_pcb.m
Limit Group: GC - 8082A PCB ICAL
Last Update: 28-Oct-2014 14:04:38 Calib Date: 03-Oct-2014 08:06:59
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5890-12\20141002-35967.b\12_309_108.D

Column 1 : ZB-5 (0.25 mm) Det: Ch-A-7A136
Column 2 : ZB-35 (0.53 mm) Det: Ch-B-7b136
Process Host: XAWRK021

First Level Reviewer: eversd Date: 28-Oct-2014 14:04:38

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
$ 3 Tetrachloro-m-xylene							
1	1.983	1.983	0.000	75195	0.0300	0.0285	
2	1.561	1.561	0.000	58131	0.0300	0.0286	
						RPD = 0.14	
6 PCB-1016							
1	2.563	2.563	0.000	67516	0.5000	0.5234	
1	2.706	2.706	0.000	36661	0.5000	0.4833	
1	2.903	2.903	0.000	103859	0.5000	0.5014	
1	2.987	2.987	0.000	43956	0.5000	0.4976	
		Average of Peak Amounts =				0.5014	
2	2.450	2.450	0.000	32802	0.5000	0.4928	
2	2.547	2.547	0.000	84136	0.5000	0.4916	
2	2.662	2.662	0.000	37344	0.5000	0.4881	
2	3.023	3.023	0.000	43277	0.5000	0.4825	
		Average of Peak Amounts =				0.4888	
						RPD = 2.56	
9 PCB-1260							M
1	4.503	4.503	0.000	121273	0.5000	0.5201	M
1	4.726	4.726	0.000	113331	0.5000	0.5157	M
1	4.853	4.853	0.000	78665	0.5000	0.5242	M
1	5.237	5.237	0.000	112124	0.5000	0.4770	M
		Average of Peak Amounts =				0.5093	
2	4.338	4.338	0.000	101119	0.5000	0.4831	
2	4.643	4.643	0.000	43728	0.5000	0.4636	
2	4.709	4.709	0.000	39219	0.5000	0.4836	
2	4.775	4.775	0.000	109221	0.5000	0.4790	
		Average of Peak Amounts =				0.4773	
						RPD = 6.47	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
$ 12 DCB Decachlorobiphenyl							
1	6.734	6.734	0.000	84070	0.0300	0.0349	
2	6.045	6.045	0.000	82704	0.0300	0.0279	
						RPD = 22.28	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

AR1660 .5NG_00097	Amount Added:	1.00	Units: mL	
COPPER_00049	Amount Added:	1.00	Units: mL	Run Reagent

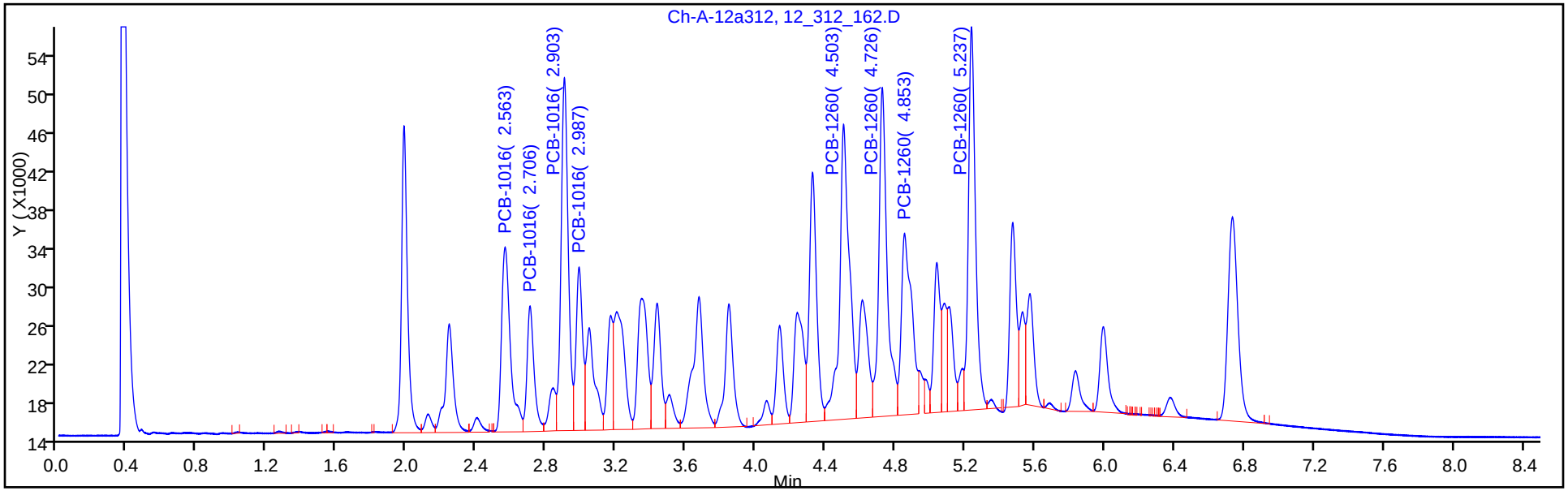
Report Date: 28-Oct-2014 14:04:39 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Buffalo

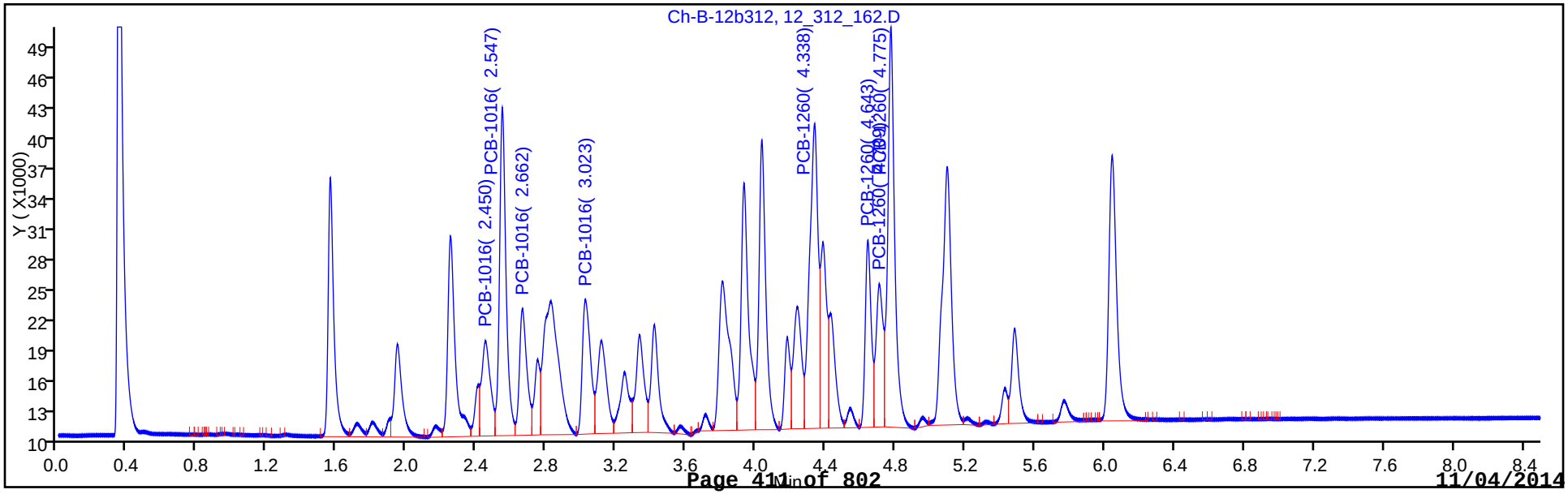
Data File: \\Bufchrom\ChromData\HP5890-12\20141028-36794.b\12_312_162.D

Injection Date:	28-Oct-2014 08:46:44	Instrument ID:	HP5890-12	Operator ID:	buftchrom
Lims ID:	CCV			Worklist Smp#:	1
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	hp12_pcb	Limit Group:	GC - 8082A PCB ICAL		

Column: ZB-5 (0.25 mm)



Column: ZB-35 (0.53 mm)



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-70101-1

SDG No.:

Lab Sample ID: CCV 480-210455/13 Calibration Date: 10/28/2014 11:52

Instrument ID: HP5890-12 Calib Start Date: 10/02/2014 17:33

GC Column: ZB-5 ID: 0.25(mm) Calib End Date: 10/02/2014 19:02

Lab File ID: 12_312_174.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Ave	128987	132612		0.514	0.500	2.8	20.0
PCB-1016 Peak 2	Ave	75860	70782		0.467	0.500	-6.7	20.0
PCB-1016 Peak 3	Ave	207150	204314		0.493	0.500	-1.4	20.0
PCB-1016 Peak 4	Ave	88329	86034		0.487	0.500	-2.6	20.0
PCB-1260 Peak 1	Ave	233183	232832		0.499	0.500	-0.2	20.0
PCB-1260 Peak 2	Ave	219760	216560		0.493	0.500	-1.5	20.0
PCB-1260 Peak 3	Ave	150055	158338		0.528	0.500	5.5	20.0
PCB-1260 Peak 4	Ave	235060	236952		0.504	0.500	0.8	20.0
Tetrachloro-m-xylene	Lin		2616300		0.0298	0.0300	-0.6	20.0
DCB Decachlorobiphenyl	Ave	2410189	2761800		0.0344	0.0300	14.6	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-70101-1

SDG No.:

Lab Sample ID: CCV 480-210455/13 Calibration Date: 10/28/2014 11:52

Instrument ID: HP5890-12 Calib Start Date: 10/02/2014 17:33

GC Column: ZB-5 ID: 0.25(mm) Calib End Date: 10/02/2014 19:02

Lab File ID: 12_312_174.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	2.57	2.54	2.60
PCB-1016 Peak 2	2.71	2.68	2.74
PCB-1016 Peak 3	2.91	2.88	2.94
PCB-1016 Peak 4	2.99	2.96	3.02
PCB-1260 Peak 1	4.51	4.48	4.54
PCB-1260 Peak 2	4.73	4.70	4.76
PCB-1260 Peak 3	4.86	4.83	4.89
PCB-1260 Peak 4	5.24	5.21	5.27
Tetrachloro-m-xylene	1.99	1.96	2.02
DCB Decachlorobiphenyl	6.74	6.71	6.77

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5890-12\20141028-36794.b\12_312_174.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 28-Oct-2014 11:52:06 ALS Bottle#: 0 Worklist Smp#: 13
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: buftchrom Instrument ID: HP5890-12
Sublist: chrom-hp12_pcb*sub21

Method: \\Bufchrom\ChromData\HP5890-12\20141028-36794.b\hp12_pcb.m
Limit Group: GC - 8082A PCB ICAL
Last Update: 28-Oct-2014 14:11:26 Calib Date: 03-Oct-2014 08:06:59
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5890-12\20141002-35967.b\12_309_108.D

Column 1 : ZB-5 (0.25 mm) Det: Ch-A-7A136
Column 2 : ZB-35 (0.53 mm) Det: Ch-B-7b136
Process Host: XAWRK021

First Level Reviewer: eversd Date: 28-Oct-2014 14:11:26

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
$ 3 Tetrachloro-m-xylene							
1	1.985	1.985	0.000	78489	0.0300	0.0298	
2	1.561	1.561	0.000	61775	0.0300	0.0304	
						RPD = 1.86	
6 PCB-1016							M
1	2.566	2.566	0.000	66306	0.5000	0.5141	M
1	2.707	2.707	0.000	35391	0.5000	0.4665	M
1	2.905	2.905	0.000	102157	0.5000	0.4932	M
1	2.989	2.989	0.000	43017	0.5000	0.4870	M
		Average of Peak Amounts =				0.4902	
2	2.452	2.452	0.000	34123	0.5000	0.5127	M
2	2.550	2.550	0.000	87862	0.5000	0.5134	M
2	2.663	2.663	0.000	39318	0.5000	0.5139	M
2	3.025	3.025	0.000	45306	0.5000	0.5051	M
		Average of Peak Amounts =				0.5113	
						RPD = 4.21	
9 PCB-1260							M
1	4.506	4.506	0.000	116416	0.5000	0.4992	M
1	4.727	4.727	0.000	108280	0.5000	0.4927	M
1	4.855	4.855	0.000	79169	0.5000	0.5276	M
1	5.239	5.239	0.000	118476	0.5000	0.5040	M
		Average of Peak Amounts =				0.5059	
2	4.339	4.339	0.000	103027	0.5000	0.4922	M
2	4.643	4.643	0.000	45050	0.5000	0.4777	M
2	4.710	4.710	0.000	40620	0.5000	0.5008	M
2	4.776	4.776	0.000	114362	0.5000	0.5015	M
		Average of Peak Amounts =				0.4931	
						RPD = 2.57	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
$ 12 DCB Decachlorobiphenyl							M
1	6.737	6.737	0.000	82854	0.0300	0.0344	
2	6.044	6.044	0.000	85034	0.0300	0.0287	M
						RPD = 18.08	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

AR1660 .5NG_00097	Amount Added:	1.00	Units: mL	
COPPER_00049	Amount Added:	1.00	Units: mL	Run Reagent

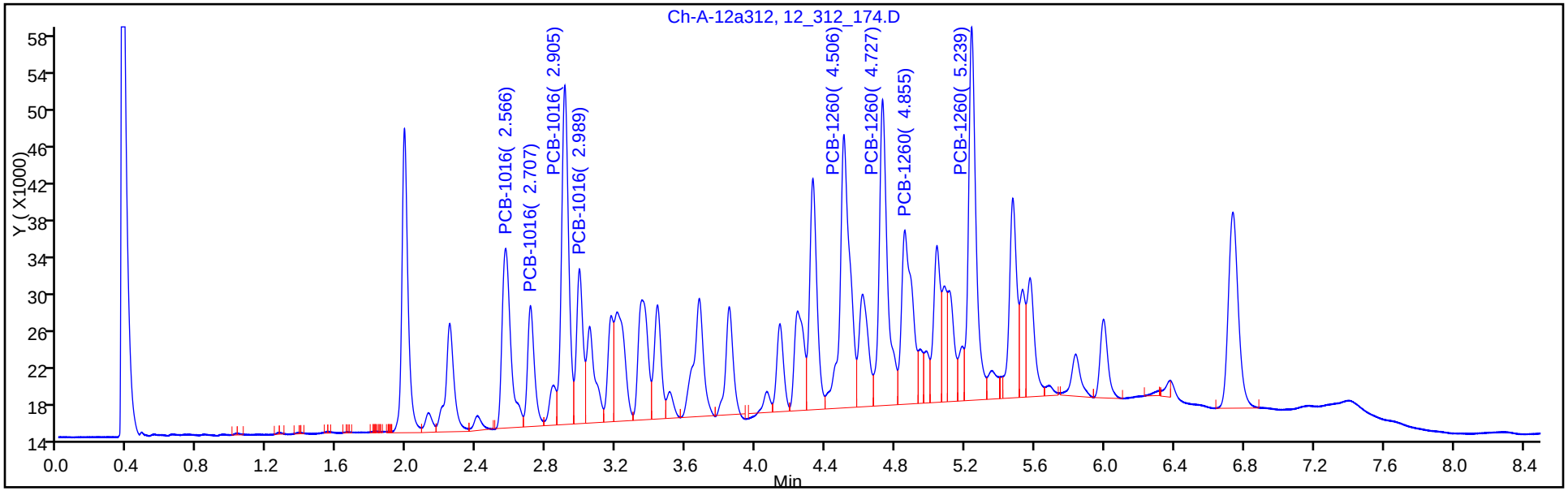
Report Date: 28-Oct-2014 14:11:26 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Buffalo

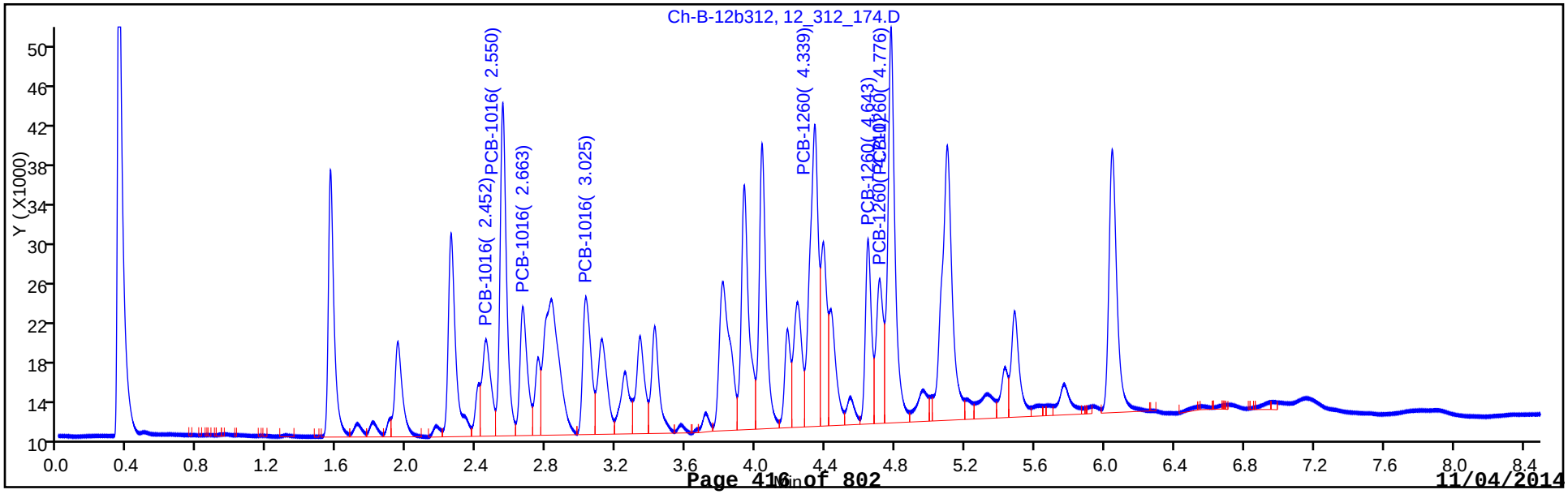
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Injection Date:	28-Oct-2014 11:52:06	Instrument ID:	HP5890-12	Operator ID:	buftchrom
Lims ID:	CCV			Worklist Smp#:	13
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	hp12_pcb	Limit Group:	GC - 8082A PCB ICAL		

Column: ZB-5 (0.25 mm)



Column: ZB-35 (0.53 mm)



Report Date: 28-Oct-2014 14:11:26 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5890-12\20141028-36794.b\12_312_174.D

Injection Date: 28-Oct-2014 11:52:06 Instrument ID: HP5890-12

Lims ID: CCV

Client ID:

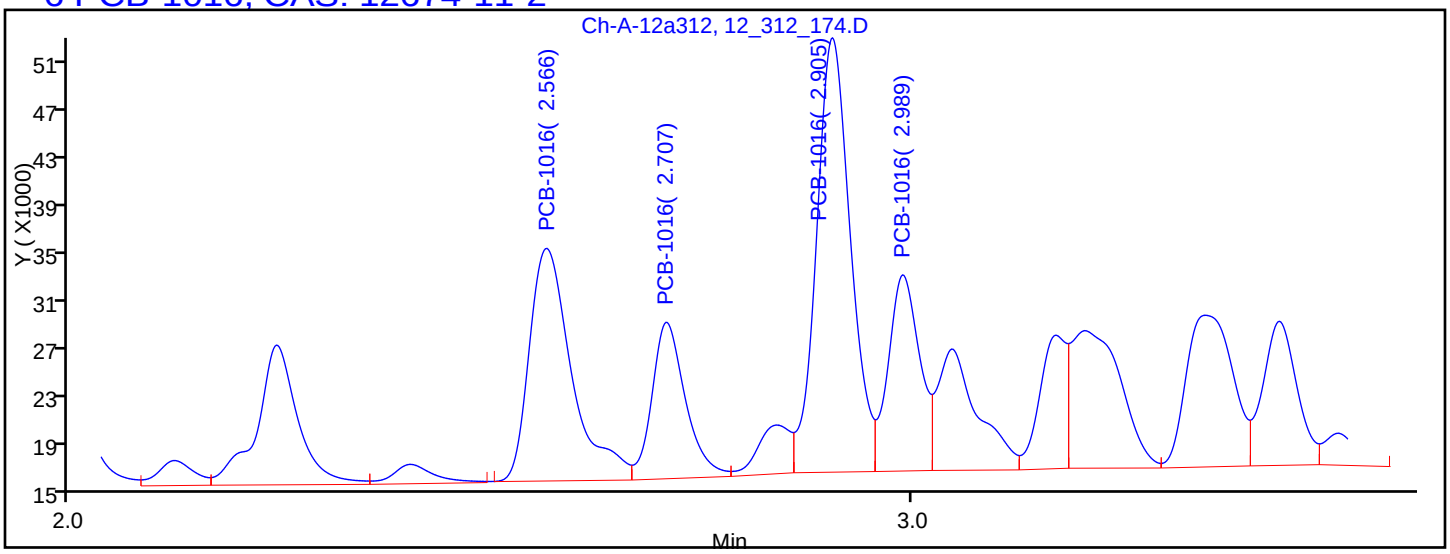
Operator ID: buftchrom ALS Bottle#: 0 Worklist Smp#: 13

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: hp12_pcb Limit Group: GC - 8082A PCB ICAL

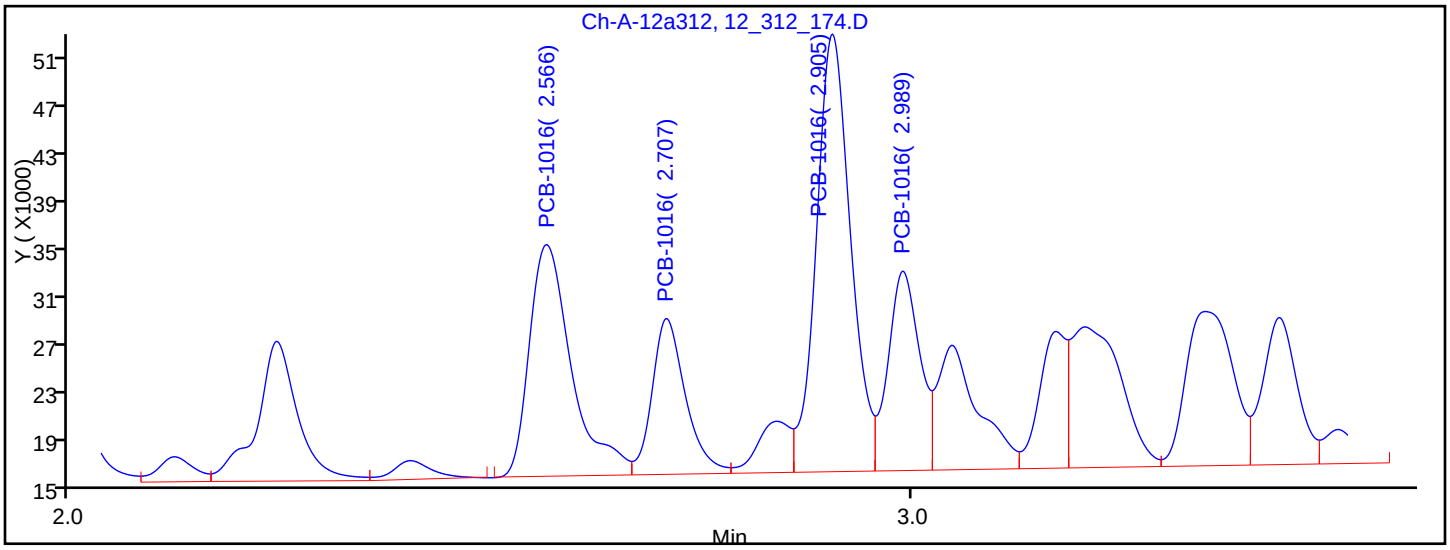
Column: ZB-5 (0.25 mm) Detector Ch-A-7A136

6 PCB-1016, CAS: 12674-11-2



Processing Integration Results

RT = 2.566	Response = 67158	M
RT = 2.707	Response = 35593	M
RT = 2.905	Response = 100597	M
RT = 2.989	Response = 41903	M



Manual Integration Results

RT = 2.566	Response = 66306	M
RT = 2.707	Response = 35391	M
RT = 2.905	Response = 102157	M
RT = 2.989	Response = 43017	M

Reviewer: eversd, 28-Oct-2014 12:20:25

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

Report Date: 28-Oct-2014 14:11:27 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5890-12\20141028-36794.b\12_312_174.D

Injection Date: 28-Oct-2014 11:52:06 Instrument ID: HP5890-12

Lims ID: CCV

Client ID:

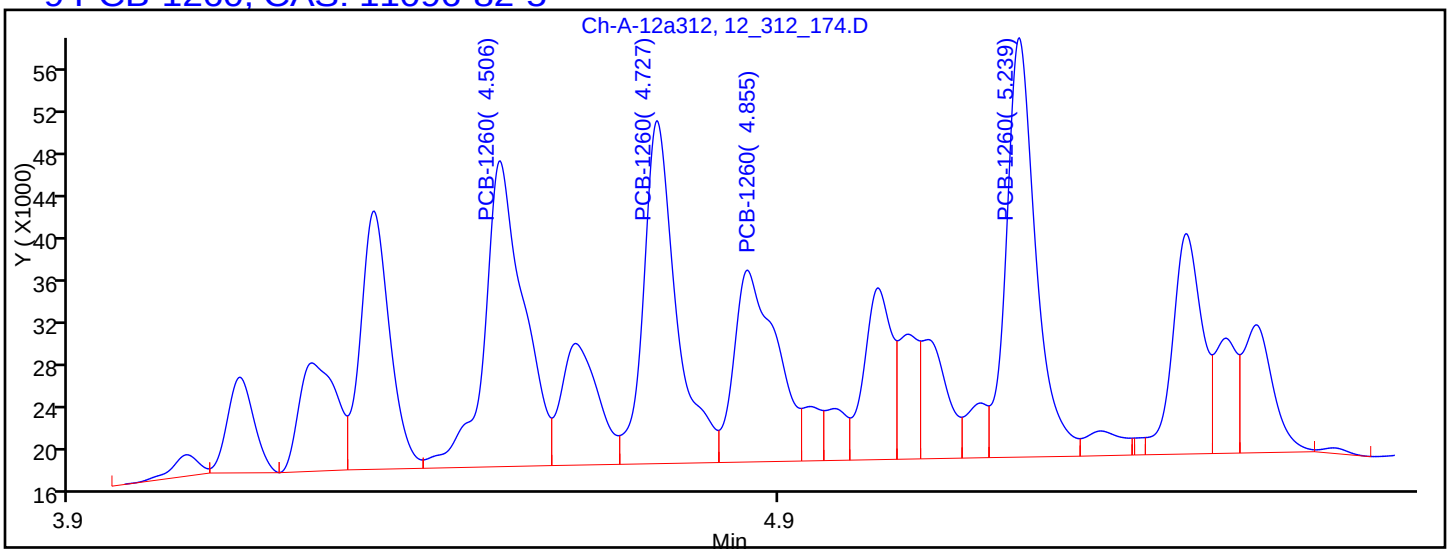
Operator ID: buftchrom ALS Bottle#: 0 Worklist Smp#: 13

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: hp12_pcb Limit Group: GC - 8082A PCB ICAL

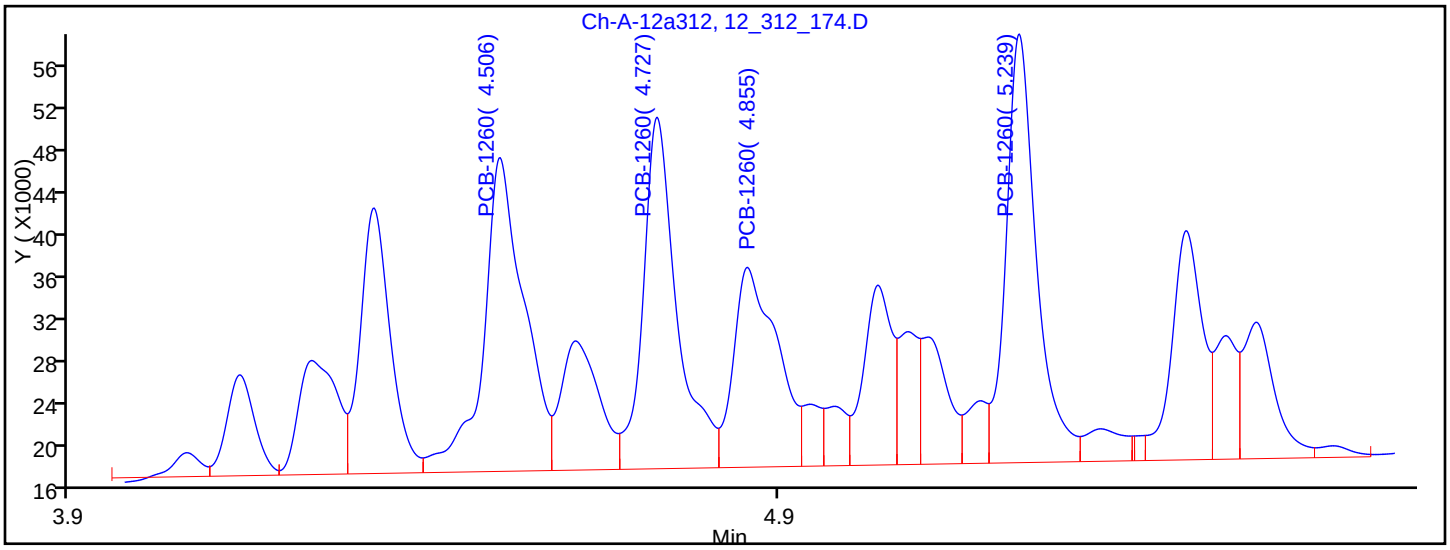
Column: ZB-5 (0.25 mm) Detector Ch-A-7A136

9 PCB-1260, CAS: 11096-82-5



Processing Integration Results

RT = 4.506	Response = 109747	M
RT = 4.727	Response = 102774	M
RT = 4.855	Response = 74497	M
RT = 5.239	Response = 113114	M



Manual Integration Results

RT = 4.506	Response = 116416	M
RT = 4.727	Response = 108280	M
RT = 4.855	Response = 79169	M
RT = 5.239	Response = 118476	M

Reviewer: eversd, 28-Oct-2014 12:20:25

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-70101-1

SDG No.:

Lab Sample ID: CCV 480-210455/13 Calibration Date: 10/28/2014 11:52

Instrument ID: HP5890-12 Calib Start Date: 10/02/2014 17:33

GC Column: ZB-35 ID: 0.53(mm) Calib End Date: 10/02/2014 19:02

Lab File ID: 12_312_174.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Ave	66559	68246		0.513	0.500	2.5	20.0
PCB-1016 Peak 2	Ave	171134	175724		0.513	0.500	2.7	20.0
PCB-1016 Peak 3	Ave	76509	78636		0.514	0.500	2.8	20.0
PCB-1016 Peak 4	Ave	89693	90612		0.505	0.500	1.0	20.0
PCB-1260 Peak 1	Ave	209299	206054		0.492	0.500	-1.6	20.0
PCB-1260 Peak 2	Ave	94315	90100		0.478	0.500	-4.5	20.0
PCB-1260 Peak 3	Ave	81103	81240		0.501	0.500	0.2	20.0
PCB-1260 Peak 4	Ave	228039	228724		0.502	0.500	0.3	20.0
Tetrachloro-m-xylene	Lin		2059167		0.0304	0.0300	1.2	20.0
DCB Decachlorobiphenyl	Ave	2965383	2834467		0.0287	0.0300	-4.4	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-70101-1

SDG No.:

Lab Sample ID: CCV 480-210455/13 Calibration Date: 10/28/2014 11:52

Instrument ID: HP5890-12 Calib Start Date: 10/02/2014 17:33

GC Column: ZB-35 ID: 0.53(mm) Calib End Date: 10/02/2014 19:02

Lab File ID: 12_312_174.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	2.45	2.42	2.48
PCB-1016 Peak 2	2.55	2.52	2.58
PCB-1016 Peak 3	2.66	2.63	2.69
PCB-1016 Peak 4	3.03	3.00	3.06
PCB-1260 Peak 1	4.34	4.31	4.37
PCB-1260 Peak 2	4.64	4.61	4.67
PCB-1260 Peak 3	4.71	4.68	4.74
PCB-1260 Peak 4	4.78	4.75	4.81
Tetrachloro-m-xylene	1.56	1.53	1.59
DCB Decachlorobiphenyl	6.04	6.01	6.07

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5890-12\20141028-36794.b\12_312_174.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 28-Oct-2014 11:52:06 ALS Bottle#: 0 Worklist Smp#: 13
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: buftchrom Instrument ID: HP5890-12
Sublist: chrom-hp12_pcb*sub21

Method: \\Bufchrom\ChromData\HP5890-12\20141028-36794.b\hp12_pcb.m
Limit Group: GC - 8082A PCB ICAL
Last Update: 28-Oct-2014 14:11:26 Calib Date: 03-Oct-2014 08:06:59
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5890-12\20141002-35967.b\12_309_108.D

Column 1 : ZB-5 (0.25 mm) Det: Ch-A-7A136
Column 2 : ZB-35 (0.53 mm) Det: Ch-B-7b136
Process Host: XAWRK021

First Level Reviewer: eversd Date: 28-Oct-2014 14:11:26

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
$ 3 Tetrachloro-m-xylene							
1	1.985	1.985	0.000	78489	0.0300	0.0298	
2	1.561	1.561	0.000	61775	0.0300	0.0304	
						RPD = 1.86	
6 PCB-1016							M
1	2.566	2.566	0.000	66306	0.5000	0.5141	M
1	2.707	2.707	0.000	35391	0.5000	0.4665	M
1	2.905	2.905	0.000	102157	0.5000	0.4932	M
1	2.989	2.989	0.000	43017	0.5000	0.4870	M
		Average of Peak Amounts =				0.4902	
2	2.452	2.452	0.000	34123	0.5000	0.5127	M
2	2.550	2.550	0.000	87862	0.5000	0.5134	M
2	2.663	2.663	0.000	39318	0.5000	0.5139	M
2	3.025	3.025	0.000	45306	0.5000	0.5051	M
		Average of Peak Amounts =				0.5113	
						RPD = 4.21	
9 PCB-1260							M
1	4.506	4.506	0.000	116416	0.5000	0.4992	M
1	4.727	4.727	0.000	108280	0.5000	0.4927	M
1	4.855	4.855	0.000	79169	0.5000	0.5276	M
1	5.239	5.239	0.000	118476	0.5000	0.5040	M
		Average of Peak Amounts =				0.5059	
2	4.339	4.339	0.000	103027	0.5000	0.4922	M
2	4.643	4.643	0.000	45050	0.5000	0.4777	M
2	4.710	4.710	0.000	40620	0.5000	0.5008	M
2	4.776	4.776	0.000	114362	0.5000	0.5015	M
		Average of Peak Amounts =				0.4931	
						RPD = 2.57	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
$ 12 DCB Decachlorobiphenyl							M
1	6.737	6.737	0.000	82854	0.0300	0.0344	
2	6.044	6.044	0.000	85034	0.0300	0.0287	M
						RPD = 18.08	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

AR1660 .5NG_00097	Amount Added:	1.00	Units: mL	
COPPER_00049	Amount Added:	1.00	Units: mL	Run Reagent

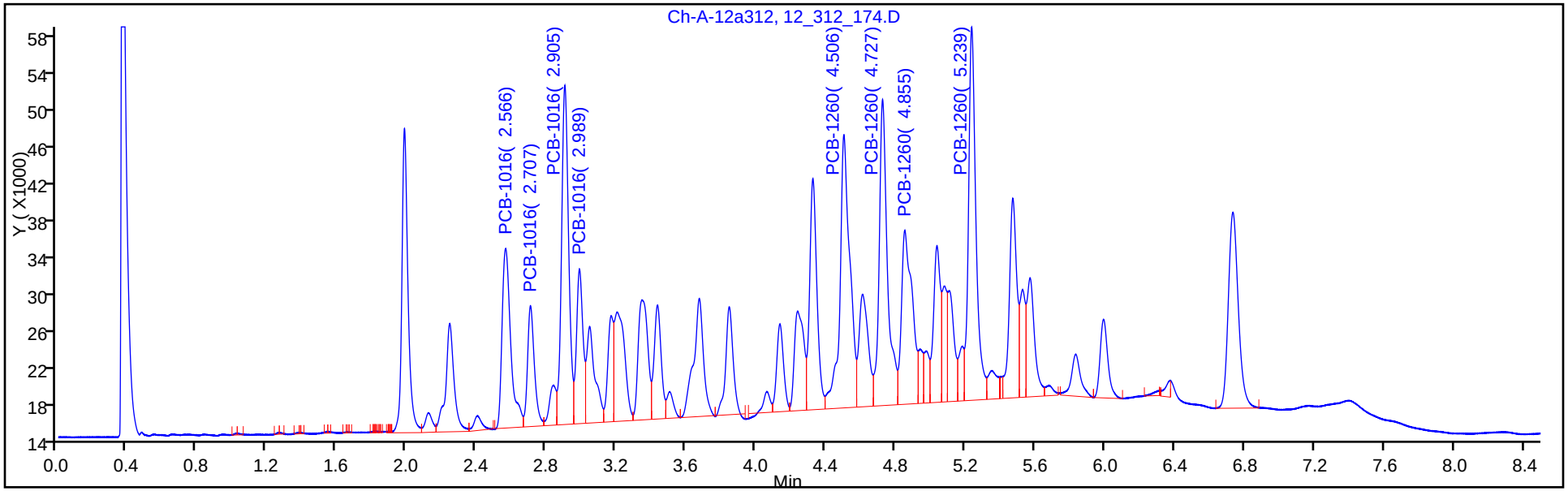
Report Date: 28-Oct-2014 14:11:27 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Buffalo

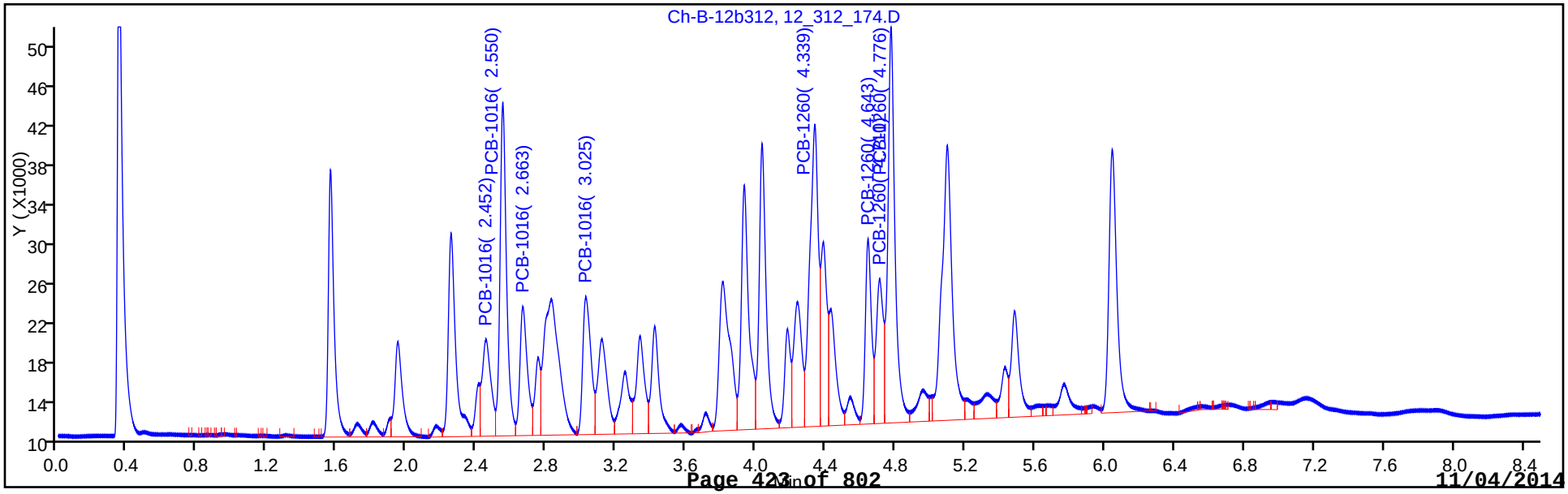
Data File: \\Bufchrom\ChromData\HP5890-12\20141028-36794.b\12_312_174.D

Injection Date:	28-Oct-2014 11:52:06	Instrument ID:	HP5890-12	Operator ID:	buftchrom
Lims ID:	CCV			Worklist Smp#:	13
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	hp12_pcb	Limit Group:	GC - 8082A PCB ICAL		

Column: ZB-5 (0.25 mm)



Column: ZB-35 (0.53 mm)



Report Date: 28-Oct-2014 14:11:27 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5890-12\20141028-36794.b\12_312_174.D

Injection Date: 28-Oct-2014 11:52:06 Instrument ID: HP5890-12

Lims ID: CCV

Client ID:

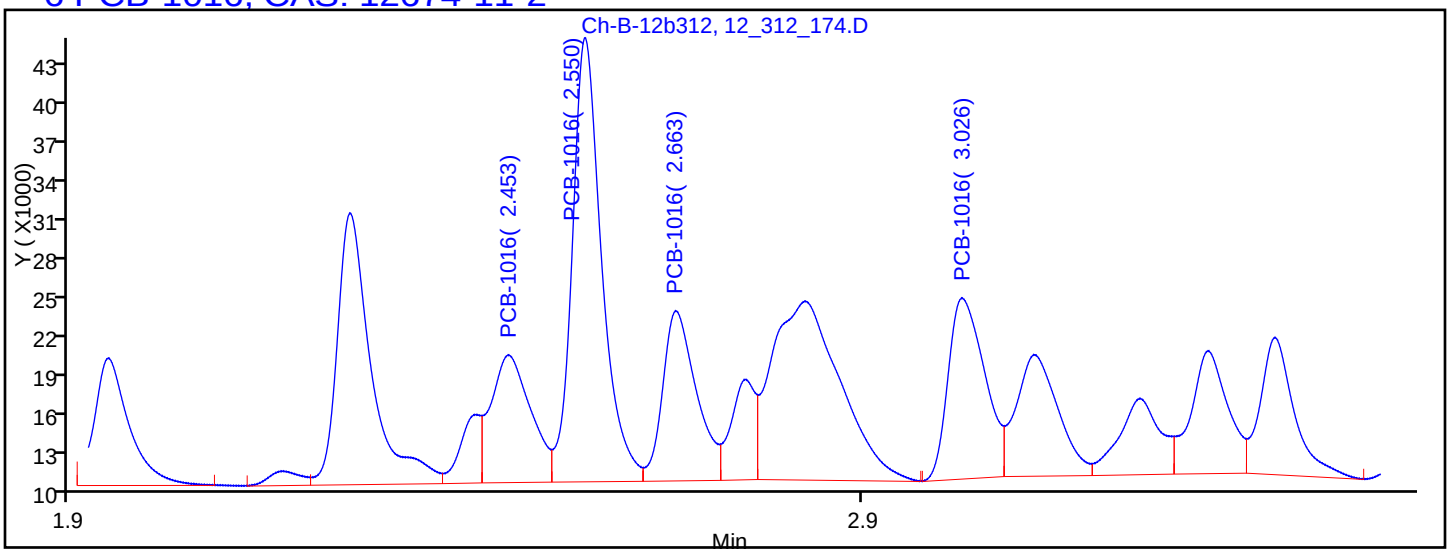
Operator ID: buftchrom ALS Bottle#: 0 Worklist Smp#: 13

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: hp12_pcb Limit Group: GC - 8082A PCB ICAL

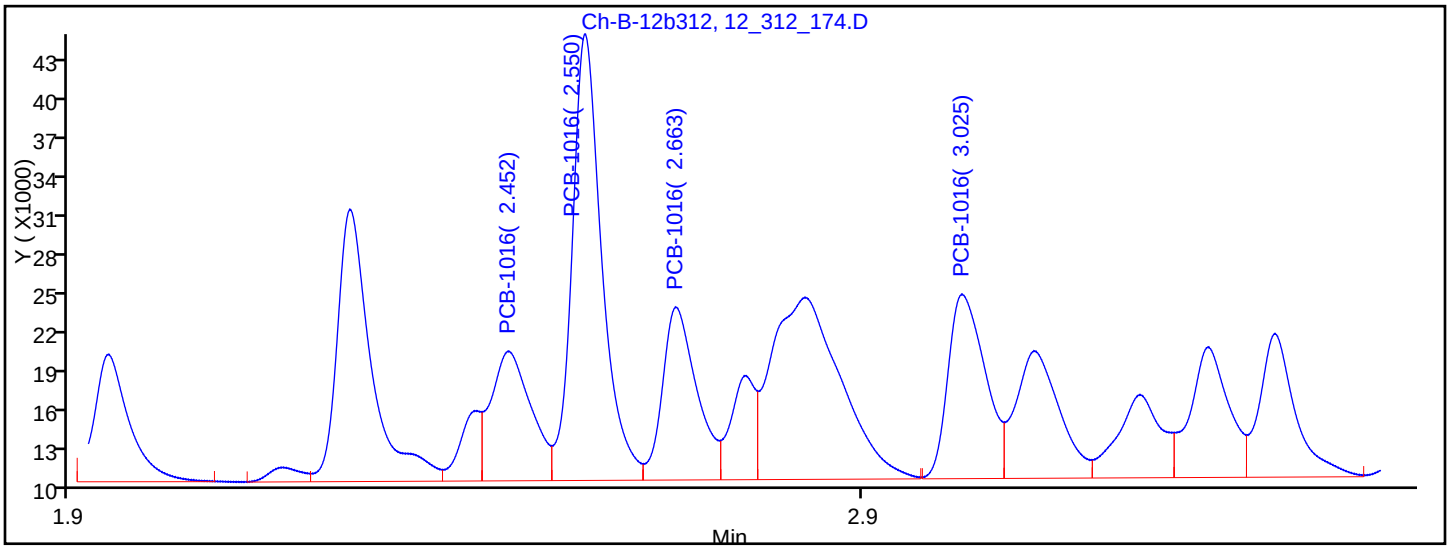
Column: ZB-35 (0.53 mm) Detector Ch-B-7b136

6 PCB-1016, CAS: 12674-11-2



Processing Integration Results

RT = 2.453	Response = 33323	M
RT = 2.550	Response = 86606	M
RT = 2.663	Response = 38042	M
RT = 3.026	Response = 43734	M



Manual Integration Results

RT = 2.452	Response = 34123	M
RT = 2.550	Response = 87862	M
RT = 2.663	Response = 39318	M
RT = 3.025	Response = 45306	M

Reviewer: eversd, 28-Oct-2014 12:20:25

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

Report Date: 28-Oct-2014 14:11:27 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5890-12\20141028-36794.b\12_312_174.D

Injection Date: 28-Oct-2014 11:52:06 Instrument ID: HP5890-12

Lims ID: CCV

Client ID:

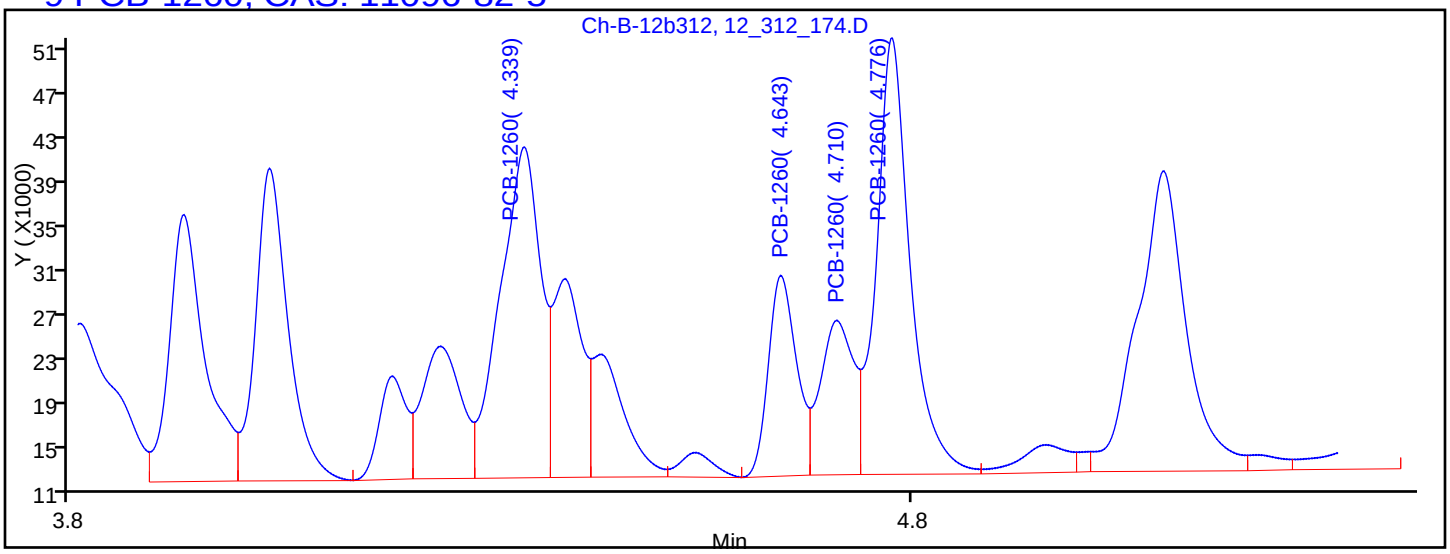
Operator ID: buftchrom ALS Bottle#: 0 Worklist Smp#: 13

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: hp12_pcb Limit Group: GC - 8082A PCB ICAL

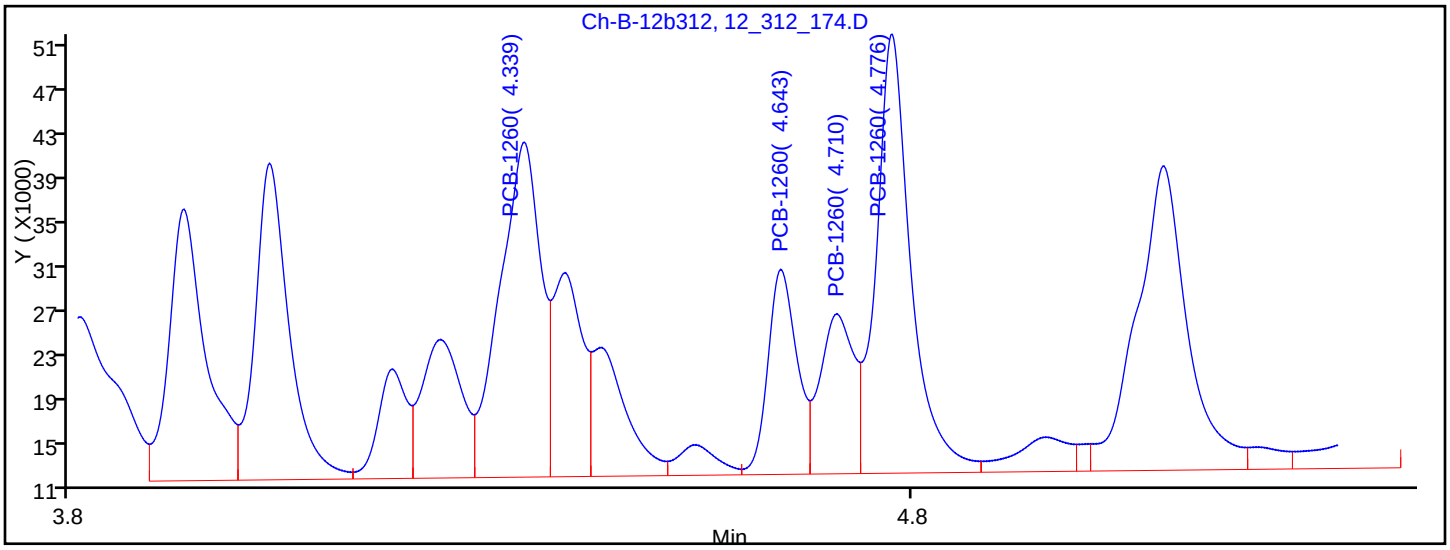
Column: ZB-35 (0.53 mm) Detector Ch-B-7b136

9 PCB-1260, CAS: 11096-82-5



Processing Integration Results

RT = 4.339	Response = 99425	M
RT = 4.643	Response = 42336	M
RT = 4.710	Response = 38325	M
RT = 4.776	Response = 109138	M



Manual Integration Results

RT = 4.339	Response = 103027	M
RT = 4.643	Response = 45050	M
RT = 4.710	Response = 40620	M
RT = 4.776	Response = 114362	M

Reviewer: eversd, 28-Oct-2014 12:20:25

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

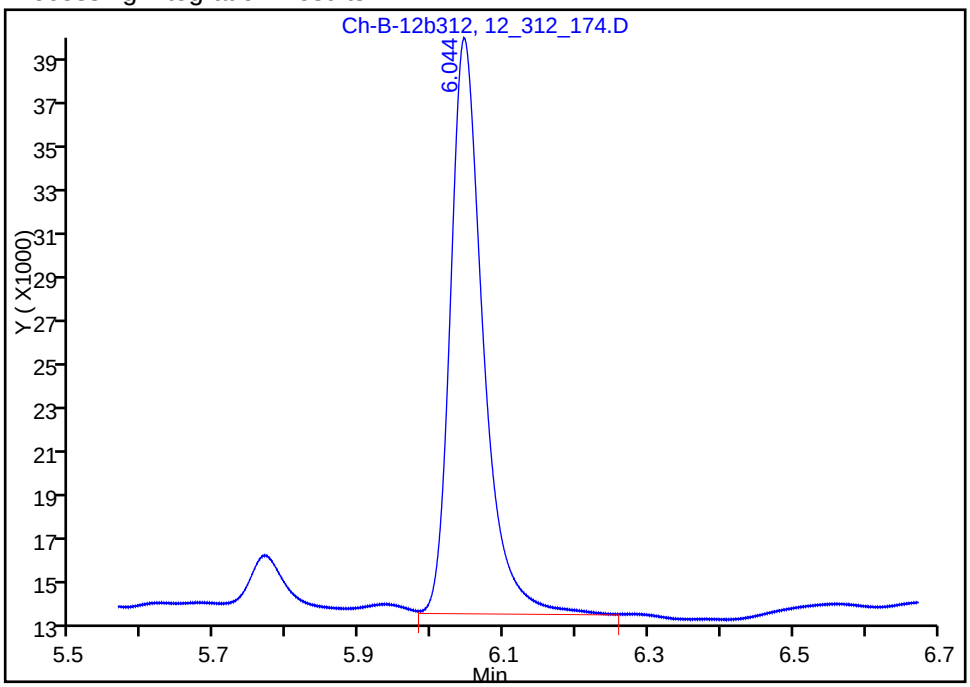
TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5890-12\20141028-36794.b\12_312_174.D
Injection Date: 28-Oct-2014 11:52:06 Instrument ID: HP5890-12
Lims ID: CCV
Client ID:
Operator ID: buftchrom ALS Bottle#: 0 Worklist Smp#: 13
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: hp12_pcb Limit Group: GC - 8082A PCB ICAL
Column: ZB-35 (0.53 mm) Detector Ch-B-7b136

$ 12 DCB Decachlorobiphenyl, CAS: 2051-24-3

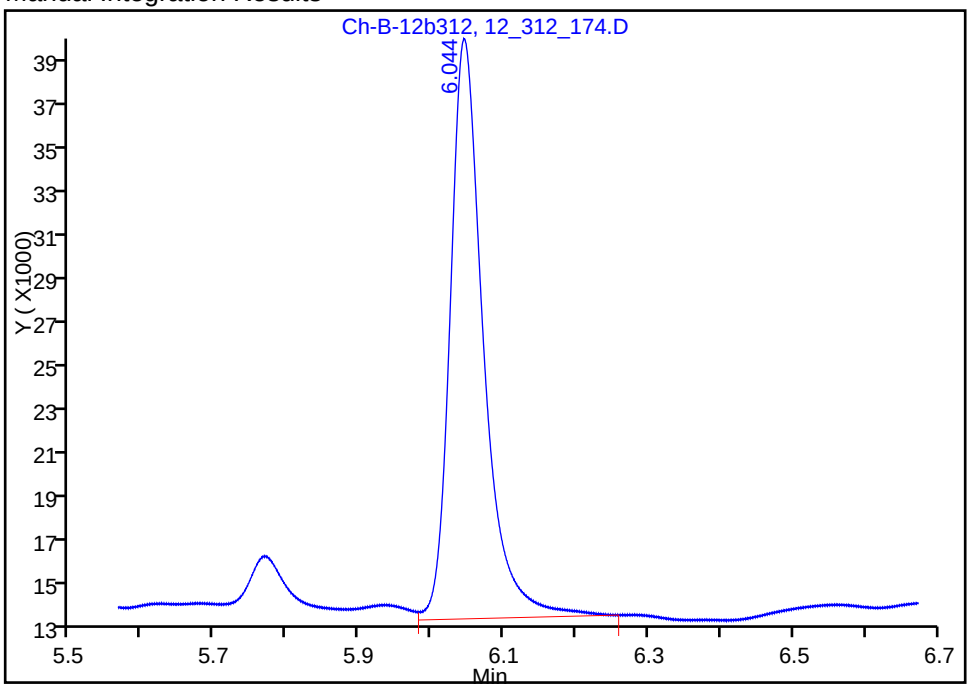
Processing Integration Results

RT: 6.04
Response: 83095
Amount: 0.028022



Manual Integration Results

RT: 6.04
Response: 85034
Amount: 0.028676



Reviewer: eversd, 28-Oct-2014 12:20:25
Audit Action: Assigned New Baseline
Audit Reason: Incomplete Integration

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-70101-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 480-210224/1-A

Matrix: Solid Lab File ID: 12_312_164.D

Analysis Method: 8082A Date Collected:

Extraction Method: 3550C Date Extracted: 10/27/2014 10:26

Sample wt/vol: +2.96(g) Date Analyzed: 10/28/2014 09:22

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-5 ID: 0.25(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 210455 Units: mg/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	122		47-176
877-09-8	Tetrachloro-m-xylene	99		46-175

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5890-12\20141028-36794.b\12_312_164.D
Lims ID: MB 480-210224/1-A
Client ID:
Sample Type: MB
Inject. Date: 28-Oct-2014 09:22:36 ALS Bottle#: 0 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: buftchrom Instrument ID: HP5890-12

Method: \\Bufchrom\ChromData\HP5890-12\20141028-36794.b\hp12_pcb.m
Limit Group: GC - 8082A PCB ICAL
Last Update: 28-Oct-2014 14:04:38 Calib Date: 03-Oct-2014 08:06:59
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5890-12\20141002-35967.b\12_309_108.D

Column 1 : ZB-5 (0.25 mm) Det: Ch-A-7A136
Column 2 : ZB-35 (0.53 mm) Det: Ch-B-7b136
Process Host: XAWRK021

First Level Reviewer: eversd Date: 28-Oct-2014 14:04:57

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
$ 3 Tetrachloro-m-xylene							
1	1.988	1.983	0.005	52303	0.0200	0.0198	
2	1.559	1.561	-0.002	38842	0.0200	0.0191	
						RPD = 3.20	
$ 12 DCB Decachlorobiphenyl							
1	6.743	6.734	0.009	59002	0.0200	0.0245	
2	6.047	6.045	0.002	63236	0.0200	0.0213	
						RPD = 13.78	

Reagents:

COPPER_00049 Amount Added: 1.00 Units: mL Run Reagent

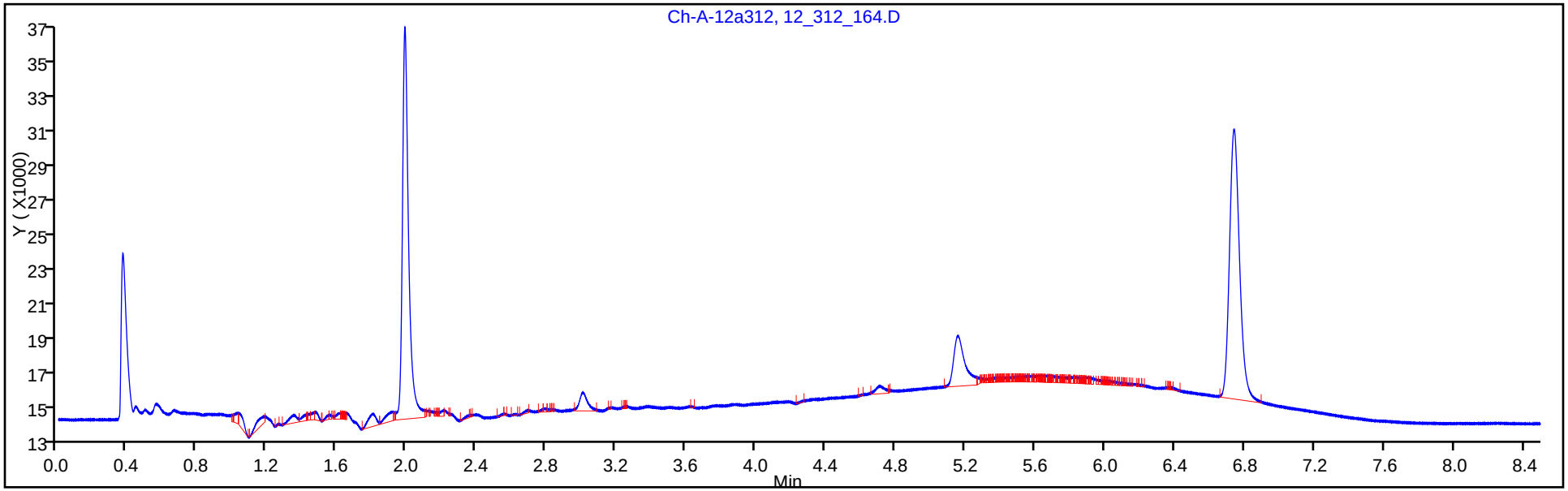
Report Date: 28-Oct-2014 14:04:58 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Buffalo

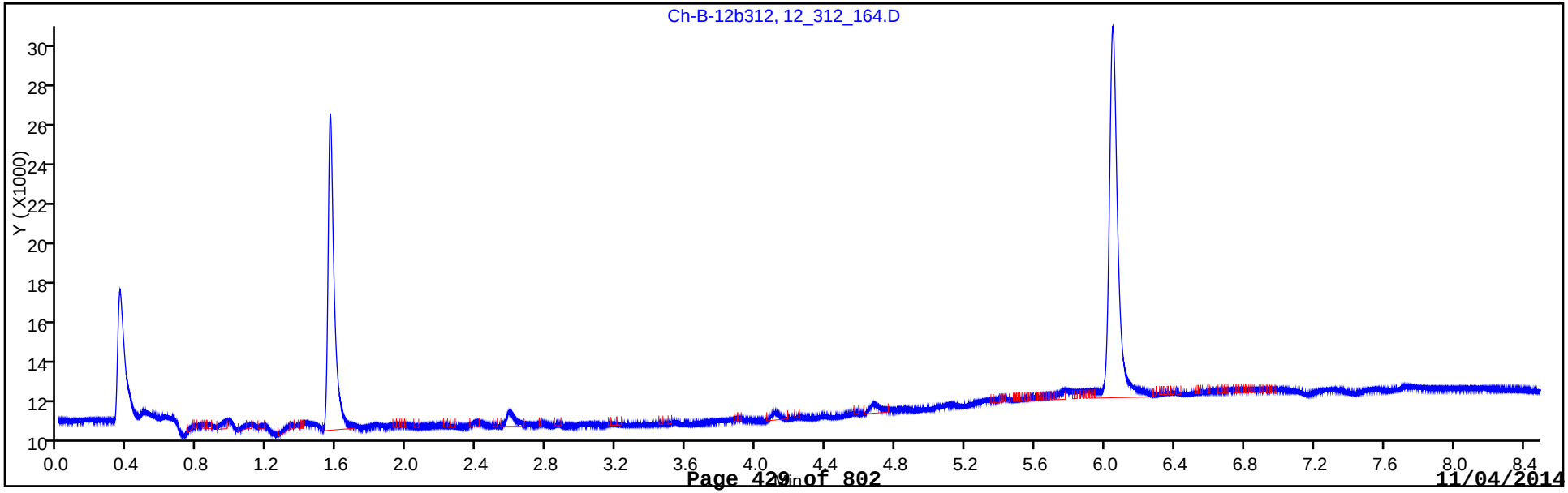
Data File: \\Bufchrom\ChromData\HP5890-12\20141028-36794.b\12_312_164.D

Injection Date:	28-Oct-2014 09:22:36	Instrument ID:	HP5890-12	Operator ID:	buftchrom
Lims ID:	MB 480-210224/1-A			Worklist Smp#:	3
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	hp12_pcb	Limit Group:	GC - 8082A PCB ICAL		

Column: ZB-5 (0.25 mm)



Column: ZB-35 (0.53 mm)



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-70101-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 480-210224/1-A

Matrix: Solid | Lab File ID: 12_312_164.D

Analysis Method: 8082A | Date Collected:

Extraction Method: 3550C | Date Extracted: 10/27/2014 10:26

Sample wt/vol: +2.96(g) | Date Analyzed: 10/28/2014 09:22

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-35 ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 210455 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.17	0.033
11104-28-2	PCB-1221	ND		0.17	0.033
11141-16-5	PCB-1232	ND		0.17	0.033
53469-21-9	PCB-1242	ND		0.17	0.033
12672-29-6	PCB-1248	ND		0.17	0.033
11097-69-1	PCB-1254	ND		0.17	0.079
11096-82-5	PCB-1260	ND		0.17	0.079

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	107		47-176
877-09-8	Tetrachloro-m-xylene	96		46-175

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5890-12\20141028-36794.b\12_312_164.D
Lims ID: MB 480-210224/1-A
Client ID:
Sample Type: MB
Inject. Date: 28-Oct-2014 09:22:36 ALS Bottle#: 0 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: buftchrom Instrument ID: HP5890-12

Method: \\Bufchrom\ChromData\HP5890-12\20141028-36794.b\hp12_pcb.m
Limit Group: GC - 8082A PCB ICAL
Last Update: 28-Oct-2014 14:04:38 Calib Date: 03-Oct-2014 08:06:59
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5890-12\20141002-35967.b\12_309_108.D

Column 1 : ZB-5 (0.25 mm) Det: Ch-A-7A136
Column 2 : ZB-35 (0.53 mm) Det: Ch-B-7b136
Process Host: XAWRK021

First Level Reviewer: eversd Date: 28-Oct-2014 14:04:57

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
$ 3 Tetrachloro-m-xylene							
1	1.988	1.983	0.005	52303	0.0200	0.0198	
2	1.559	1.561	-0.002	38842	0.0200	0.0191	
						RPD = 3.20	
$ 12 DCB Decachlorobiphenyl							
1	6.743	6.734	0.009	59002	0.0200	0.0245	
2	6.047	6.045	0.002	63236	0.0200	0.0213	
						RPD = 13.78	

Reagents:

COPPER_00049 Amount Added: 1.00 Units: mL Run Reagent

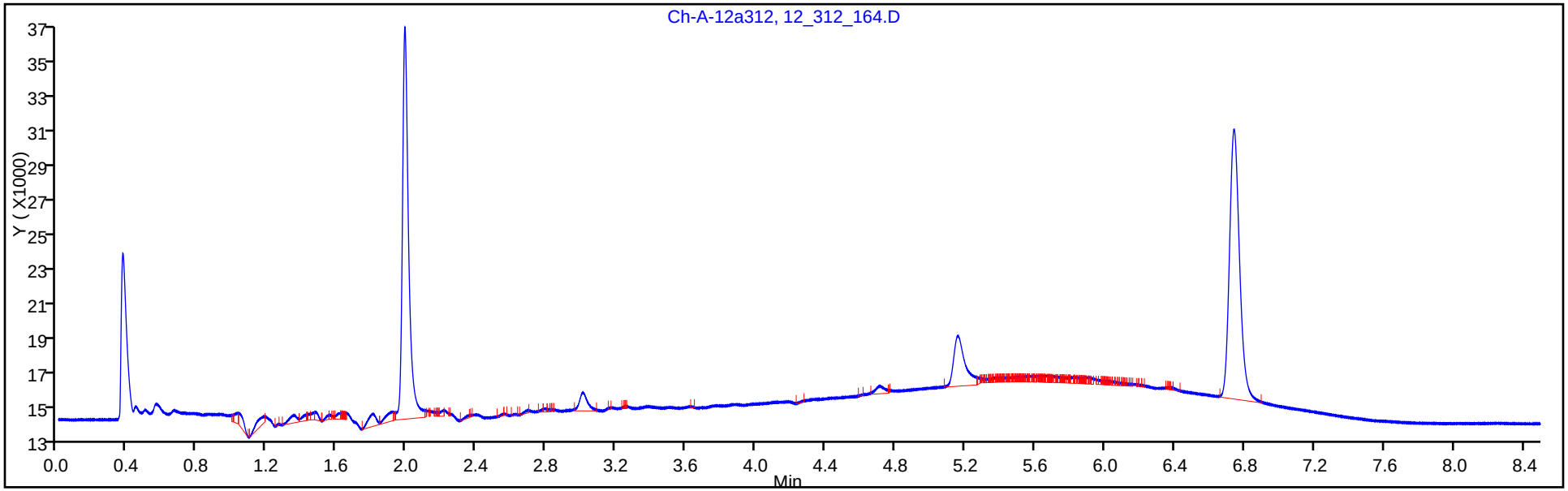
Report Date: 28-Oct-2014 14:04:58 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Buffalo

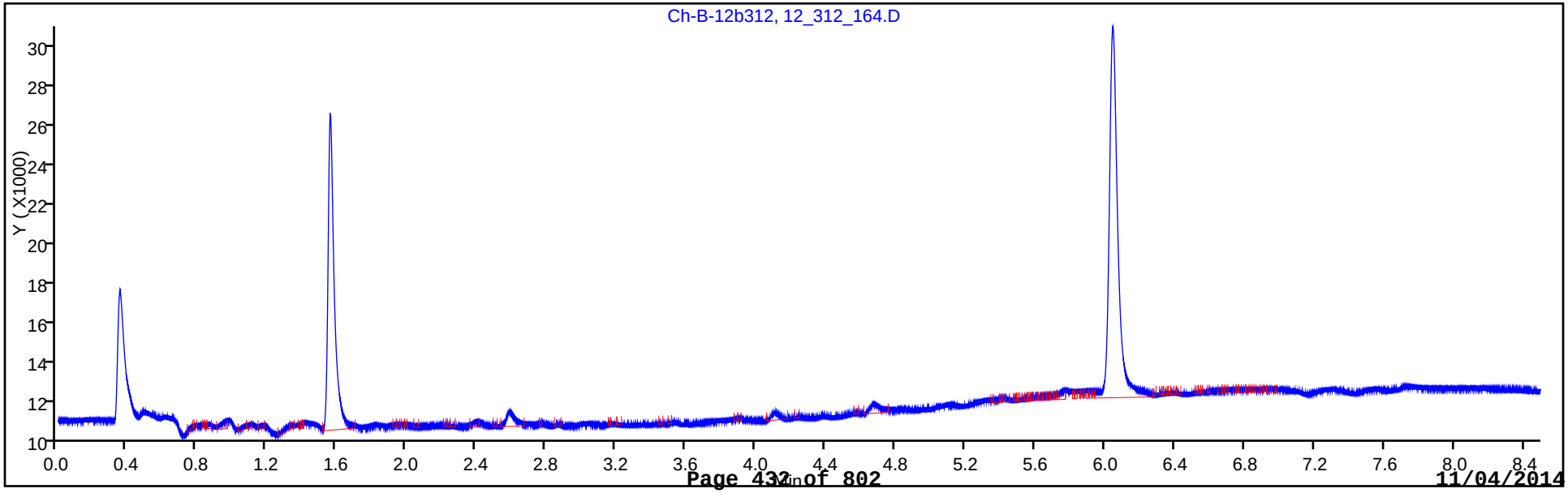
Data File: \\Bufchrom\ChromData\HP5890-12\20141028-36794.b\12_312_164.D

Injection Date:	28-Oct-2014 09:22:36	Instrument ID:	HP5890-12	Operator ID:	buftchrom
Lims ID:	MB 480-210224/1-A			Worklist Smp#:	3
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	hp12_pcb	Limit Group:	GC - 8082A PCB ICAL		

Column: ZB-5 (0.25 mm)



Column: ZB-35 (0.53 mm)



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-70101-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 480-210224/2-A

Matrix: Solid Lab File ID: 12_312_165.D

Analysis Method: 8082A Date Collected:

Extraction Method: 3550C Date Extracted: 10/27/2014 10:26

Sample wt/vol: +2.71(g) Date Analyzed: 10/28/2014 09:37

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-5 ID: 0.25(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 210455 Units: mg/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	148		47-176
877-09-8	Tetrachloro-m-xylene	129		46-175

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5890-12\20141028-36794.b\12_312_165.D
Lims ID: LCS 480-210224/2-A
Client ID:
Sample Type: LCS
Inject. Date: 28-Oct-2014 09:37:33 ALS Bottle#: 0 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: buftchrom Instrument ID: HP5890-12

Method: \\Bufchrom\ChromData\HP5890-12\20141028-36794.b\hp12_pcb.m
Limit Group: GC - 8082A PCB ICAL
Last Update: 28-Oct-2014 14:04:38 Calib Date: 03-Oct-2014 08:06:59
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5890-12\20141002-35967.b\12_309_108.D

Column 1 : ZB-5 (0.25 mm) Det: Ch-A-7A136
Column 2 : ZB-35 (0.53 mm) Det: Ch-B-7b136
Process Host: XAWRK021

First Level Reviewer: eversd Date: 28-Oct-2014 14:05:06

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
$ 3 Tetrachloro-m-xylene							
1	1.985	1.983	0.002	67984	0.0200	0.0258	
2	1.561	1.561	0.000	48582	0.0200	0.0239	
						RPD = 7.53	
6 PCB-1016							
1	2.564	2.563	0.001	82037	0.5000	0.6360	
1	2.707	2.706	0.001	46156	0.5000	0.6084	
1	2.905	2.903	0.002	131411	0.5000	0.6344	
1	2.989	2.987	0.002	56742	0.5000	0.6424	
		Average of Peak Amounts =				0.6303	
2	2.451	2.450	0.001	40796	0.5000	0.6129	
2	2.548	2.547	0.001	109713	0.5000	0.6411	
2	2.663	2.662	0.001	47655	0.5000	0.6229	
2	3.023	3.023	0.000	55582	0.5000	0.6197	
		Average of Peak Amounts =				0.6241	
						RPD = 0.98	
9 PCB-1260							
1	4.506	4.503	0.003	146320	0.5000	0.6275	
1	4.728	4.726	0.002	130601	0.5000	0.5943	
1	4.855	4.853	0.002	123806	0.5000	0.8251	
1	5.239	5.237	0.002	170187	0.5000	0.7240	
		Average of Peak Amounts =				0.6927	
2	4.339	4.338	0.001	112262	0.5000	0.5364	
2	4.644	4.643	0.001	65703	0.5000	0.6966	
2	4.709	4.709	0.000	53849	0.5000	0.6640	
2	4.776	4.775	0.001	152761	0.5000	0.6699	
		Average of Peak Amounts =				0.6417	
						RPD = 7.64	
$ 12 DCB Decachlorobiphenyl							
1	6.737	6.734	0.003	71269	0.0200	0.0296	
2	6.047	6.045	0.002	70453	0.0200	0.0238	
						RPD = 21.79	

Reagents:

COPPER_00049 Amount Added: 1.00 Units: mL Run Reagent

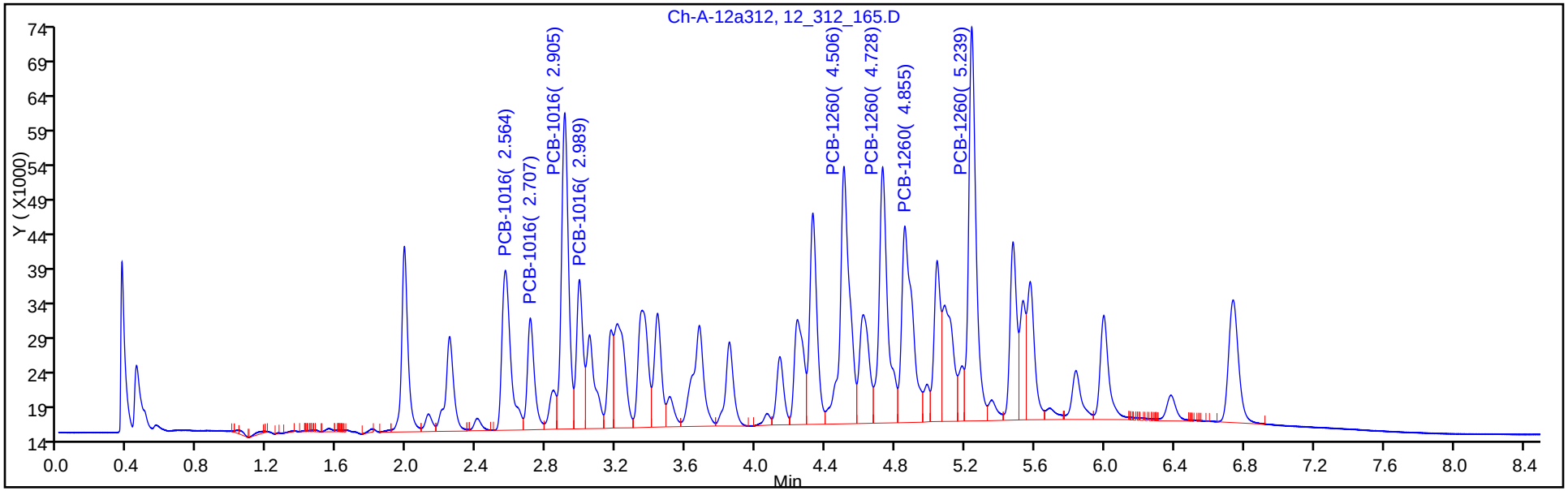
Report Date: 28-Oct-2014 14:05:07 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Buffalo

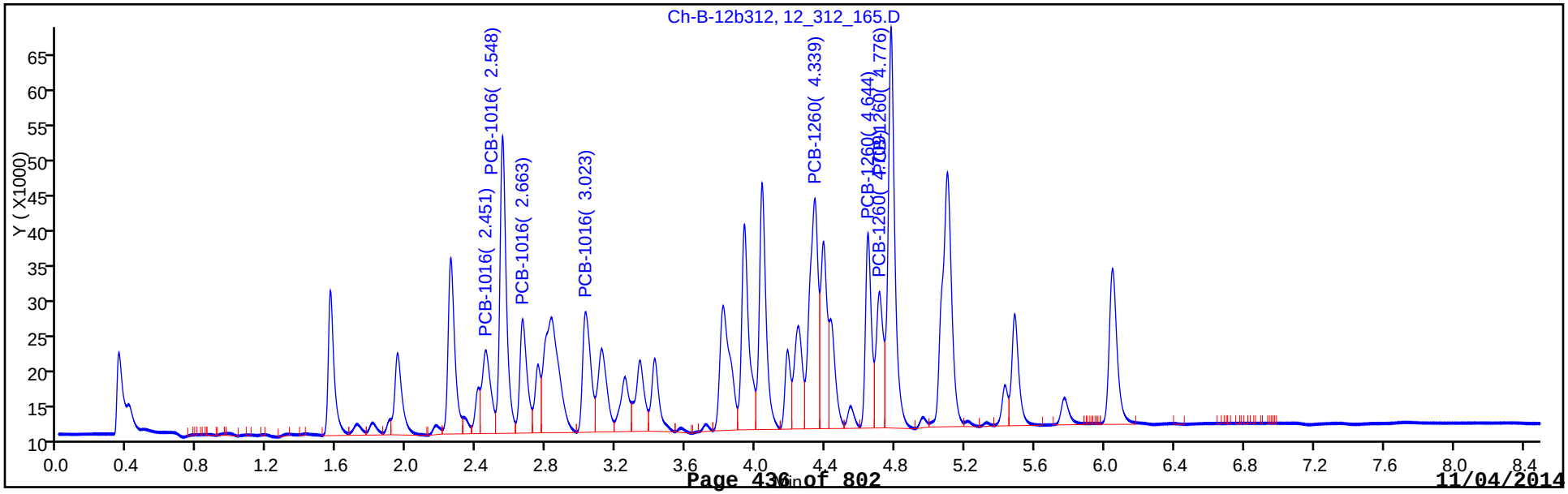
Data File: \\Bufchrom\ChromData\HP5890-12\20141028-36794.b\12_312_165.D

Injection Date:	28-Oct-2014 09:37:33	Instrument ID:	HP5890-12	Operator ID:	buftchrom
Lims ID:	LCS 480-210224/2-A			Worklist Smp#:	4
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	hp12_pcb	Limit Group:	GC - 8082A PCB ICAL		

Column: ZB-5 (0.25 mm)



Column: ZB-35 (0.53 mm)



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-70101-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 480-210224/2-A

Matrix: Solid | Lab File ID: 12_312_165.D

Analysis Method: 8082A | Date Collected:

Extraction Method: 3550C | Date Extracted: 10/27/2014 10:26

Sample wt/vol: +2.71(g) | Date Analyzed: 10/28/2014 09:37

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-35 ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 210455 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	2.30		0.18	0.036
11096-82-5	PCB-1260	2.37		0.18	0.086

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	119		47-176
877-09-8	Tetrachloro-m-xylene	120		46-175

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5890-12\20141028-36794.b\12_312_165.D
Lims ID: LCS 480-210224/2-A
Client ID:
Sample Type: LCS
Inject. Date: 28-Oct-2014 09:37:33 ALS Bottle#: 0 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: buftchrom Instrument ID: HP5890-12

Method: \\Bufchrom\ChromData\HP5890-12\20141028-36794.b\hp12_pcb.m
Limit Group: GC - 8082A PCB ICAL
Last Update: 28-Oct-2014 14:04:38 Calib Date: 03-Oct-2014 08:06:59
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5890-12\20141002-35967.b\12_309_108.D

Column 1 : ZB-5 (0.25 mm) Det: Ch-A-7A136
Column 2 : ZB-35 (0.53 mm) Det: Ch-B-7b136
Process Host: XAWRK021

First Level Reviewer: eversd Date: 28-Oct-2014 14:05:06

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
$ 3 Tetrachloro-m-xylene							
1	1.985	1.983	0.002	67984	0.0200	0.0258	
2	1.561	1.561	0.000	48582	0.0200	0.0239	
						RPD = 7.53	
6 PCB-1016							
1	2.564	2.563	0.001	82037	0.5000	0.6360	
1	2.707	2.706	0.001	46156	0.5000	0.6084	
1	2.905	2.903	0.002	131411	0.5000	0.6344	
1	2.989	2.987	0.002	56742	0.5000	0.6424	
		Average of Peak Amounts =				0.6303	
2	2.451	2.450	0.001	40796	0.5000	0.6129	
2	2.548	2.547	0.001	109713	0.5000	0.6411	
2	2.663	2.662	0.001	47655	0.5000	0.6229	
2	3.023	3.023	0.000	55582	0.5000	0.6197	
		Average of Peak Amounts =				0.6241	
						RPD = 0.98	
9 PCB-1260							
1	4.506	4.503	0.003	146320	0.5000	0.6275	
1	4.728	4.726	0.002	130601	0.5000	0.5943	
1	4.855	4.853	0.002	123806	0.5000	0.8251	
1	5.239	5.237	0.002	170187	0.5000	0.7240	
		Average of Peak Amounts =				0.6927	
2	4.339	4.338	0.001	112262	0.5000	0.5364	
2	4.644	4.643	0.001	65703	0.5000	0.6966	
2	4.709	4.709	0.000	53849	0.5000	0.6640	
2	4.776	4.775	0.001	152761	0.5000	0.6699	
		Average of Peak Amounts =				0.6417	
						RPD = 7.64	
$ 12 DCB Decachlorobiphenyl							
1	6.737	6.734	0.003	71269	0.0200	0.0296	
2	6.047	6.045	0.002	70453	0.0200	0.0238	
						RPD = 21.79	

Reagents:

COPPER_00049 Amount Added: 1.00 Units: mL Run Reagent

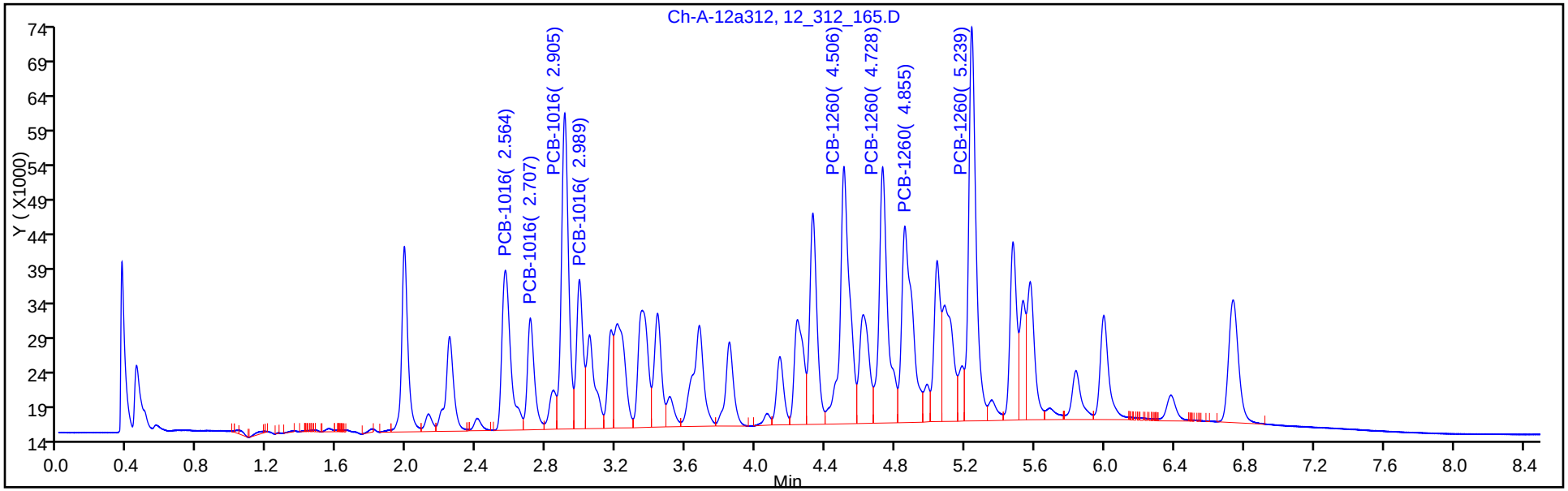
Report Date: 28-Oct-2014 14:05:07 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Buffalo

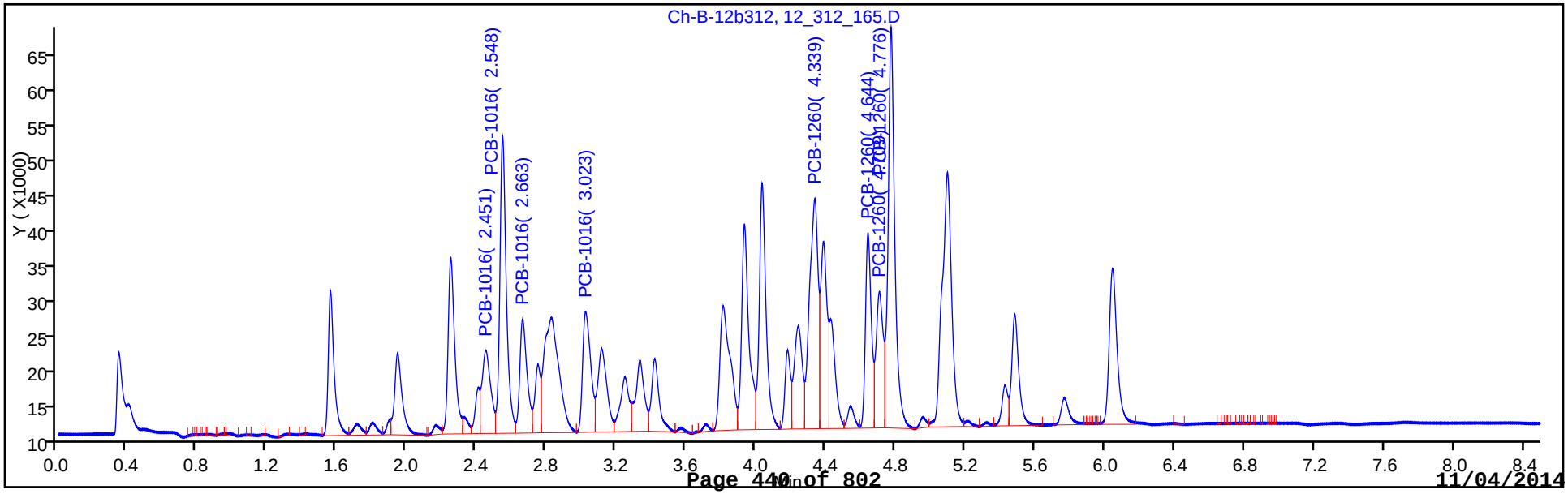
Data File: \\Bufchrom\ChromData\HP5890-12\20141028-36794.b\12_312_165.D

Injection Date:	28-Oct-2014 09:37:33	Instrument ID:	HP5890-12	Operator ID:	buftchrom
Lims ID:	LCS 480-210224/2-A			Worklist Smp#:	4
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	hp12_pcb	Limit Group:	GC - 8082A PCB ICAL		

Column: ZB-5 (0.25 mm)



Column: ZB-35 (0.53 mm)



PCBS ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-70101-1

SDG No.:

Instrument ID: HP5890-12 Start Date: 10/02/2014 17:33

Analysis Batch Number: 205708 End Date: 10/03/2014 08:21

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
STD7 480-205708/1 IC		10/02/2014 17:33	1	12_309_079.D	ZB-5 0.25(mm)
STD7 480-205708/1 IC		10/02/2014 17:33	1	12_309_079.D	ZB-35 0.53(mm)
STD6 480-205708/2 IC		10/02/2014 17:48	1	12_309_080.D	ZB-5 0.25(mm)
STD6 480-205708/2 IC		10/02/2014 17:48	1	12_309_080.D	ZB-35 0.53(mm)
STD5 480-205708/3 IC		10/02/2014 18:03	1	12_309_081.D	ZB-5 0.25(mm)
STD5 480-205708/3 IC		10/02/2014 18:03	1	12_309_081.D	ZB-35 0.53(mm)
STD4 480-205708/4 IC		10/02/2014 18:18	1	12_309_082.D	ZB-5 0.25(mm)
STD4 480-205708/4 IC		10/02/2014 18:18	1	12_309_082.D	ZB-35 0.53(mm)
STD3 480-205708/5 IC		10/02/2014 18:33	1	12_309_083.D	ZB-5 0.25(mm)
STD3 480-205708/5 IC		10/02/2014 18:33	1	12_309_083.D	ZB-35 0.53(mm)
STD2 480-205708/6 IC		10/02/2014 18:48	1	12_309_084.D	ZB-5 0.25(mm)
STD2 480-205708/6 IC		10/02/2014 18:48	1	12_309_084.D	ZB-35 0.53(mm)
STD1 480-205708/7 IC		10/02/2014 19:02	1	12_309_085.D	ZB-5 0.25(mm)
STD1 480-205708/7 IC		10/02/2014 19:02	1	12_309_085.D	ZB-35 0.53(mm)
ICV 480-205708/8		10/02/2014 19:17	1		ZB-5 0.25(mm)
ICV 480-205708/8		10/02/2014 19:17	1		ZB-35 0.53(mm)
STD48 480-205708/15 IC		10/02/2014 21:01	1	12_309_093.D	ZB-5 0.25(mm)
STD48 480-205708/15 IC		10/02/2014 21:01	1	12_309_093.D	ZB-35 0.53(mm)
ICV 480-205708/16		10/02/2014 21:16	1		ZB-5 0.25(mm)
ICV 480-205708/16		10/02/2014 21:16	1		ZB-35 0.53(mm)
STD54 480-205708/17 IC		10/02/2014 21:31	1	12_309_095.D	ZB-5 0.25(mm)
STD54 480-205708/17 IC		10/02/2014 21:31	1	12_309_095.D	ZB-35 0.53(mm)
ICV 480-205708/18		10/02/2014 21:46	1		ZB-5 0.25(mm)
ICV 480-205708/18		10/02/2014 21:46	1		ZB-35 0.53(mm)
STD62 480-205708/19 IC		10/02/2014 22:01	1		ZB-5 0.25(mm)
STD62 480-205708/19 IC		10/02/2014 22:01	1		ZB-35 0.53(mm)
ICV 480-205708/20		10/02/2014 22:16	1		ZB-5 0.25(mm)
ICV 480-205708/20		10/02/2014 22:16	1		ZB-35 0.53(mm)
STD68 480-205708/21 IC		10/02/2014 22:30	1		ZB-5 0.25(mm)
STD68 480-205708/21 IC		10/02/2014 22:30	1		ZB-35 0.53(mm)
ICV 480-205708/22		10/02/2014 22:45	1		ZB-5 0.25(mm)
ICV 480-205708/22		10/02/2014 22:45	1		ZB-35 0.53(mm)
STD21 480-205708/26 IC		10/03/2014 07:07	1	12_309_104.D	ZB-5 0.25(mm)
STD21 480-205708/26 IC		10/03/2014 07:07	1	12_309_104.D	ZB-35 0.53(mm)
ICV 480-205708/27		10/03/2014 07:22	1		ZB-5 0.25(mm)
ICV 480-205708/27		10/03/2014 07:22	1		ZB-35 0.53(mm)
STD32 480-205708/28 IC		10/03/2014 07:37	1	12_309_106.D	ZB-5 0.25(mm)
STD32 480-205708/28 IC		10/03/2014 07:37	1	12_309_106.D	ZB-35 0.53(mm)
ICV 480-205708/29		10/03/2014 07:52	1		ZB-5 0.25(mm)
ICV 480-205708/29		10/03/2014 07:52	1		ZB-35 0.53(mm)

8082A

PCBS ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-70101-1

SDG No.:

Instrument ID: HP5890-12 Start Date: 10/02/2014 17:33

Analysis Batch Number: 205708 End Date: 10/03/2014 08:21

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
STD42 480-205708/30 IC		10/03/2014 08:06	1	12_309_108.D	ZB-5 0.25(mm)
STD42 480-205708/30 IC		10/03/2014 08:06	1	12_309_108.D	ZB-35 0.53(mm)
ICV 480-205708/31		10/03/2014 08:21	1		ZB-5 0.25(mm)
ICV 480-205708/31		10/03/2014 08:21	1		ZB-35 0.53(mm)

PCBS ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-70101-1

SDG No.:

Instrument ID: HP5890-12 Start Date: 10/28/2014 08:46

Analysis Batch Number: 210455 End Date: 10/29/2014 03:43

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 480-210455/1		10/28/2014 08:46	1	12_312_162.D	ZB-5 0.25(mm)
CCV 480-210455/1		10/28/2014 08:46	1	12_312_162.D	ZB-35 0.53(mm)
MB 480-210224/1-A		10/28/2014 09:22	1	12_312_164.D	ZB-5 0.25(mm)
MB 480-210224/1-A		10/28/2014 09:22	1	12_312_164.D	ZB-35 0.53(mm)
LCS 480-210224/2-A		10/28/2014 09:37	1	12_312_165.D	ZB-5 0.25(mm)
LCS 480-210224/2-A		10/28/2014 09:37	1	12_312_165.D	ZB-35 0.53(mm)
ZZZZZ		10/28/2014 09:52	1		ZB-5 0.25(mm)
ZZZZZ		10/28/2014 09:52	1		ZB-35 0.53(mm)
ZZZZZ		10/28/2014 10:07	1		ZB-5 0.25(mm)
ZZZZZ		10/28/2014 10:07	1		ZB-35 0.53(mm)
ZZZZZ		10/28/2014 10:22	1		ZB-5 0.25(mm)
ZZZZZ		10/28/2014 10:22	1		ZB-35 0.53(mm)
ZZZZZ		10/28/2014 10:37	1		ZB-5 0.25(mm)
ZZZZZ		10/28/2014 10:37	1		ZB-35 0.53(mm)
ZZZZZ		10/28/2014 10:52	1		ZB-5 0.25(mm)
ZZZZZ		10/28/2014 10:52	1		ZB-35 0.53(mm)
480-70101-1	AS-CONC-PIERS	10/28/2014 11:07	1	12_312_171.D	ZB-5 0.25(mm)
480-70101-1	AS-CONC-PIERS	10/28/2014 11:07	1	12_312_171.D	ZB-35 0.53(mm)
480-70101-2	AS-CONC-OUTLET	10/28/2014 11:22	1	12_312_172.D	ZB-5 0.25(mm)
480-70101-2	AS-CONC-OUTLET	10/28/2014 11:22	1	12_312_172.D	ZB-35 0.53(mm)
ZZZZZ		10/28/2014 11:37	1		ZB-5 0.25(mm)
ZZZZZ		10/28/2014 11:37	1		ZB-35 0.53(mm)
CCV 480-210455/13		10/28/2014 11:52	1	12_312_174.D	ZB-5 0.25(mm)
CCV 480-210455/13		10/28/2014 11:52	1	12_312_174.D	ZB-35 0.53(mm)
ZZZZZ		10/28/2014 12:21	1		ZB-5 0.25(mm)
ZZZZZ		10/28/2014 12:21	1		ZB-35 0.53(mm)
ZZZZZ		10/28/2014 12:36	5		ZB-5 0.25(mm)
ZZZZZ		10/28/2014 12:36	5		ZB-35 0.53(mm)
ZZZZZ		10/28/2014 12:51	100		ZB-5 0.25(mm)
ZZZZZ		10/28/2014 12:51	100		ZB-35 0.53(mm)
CCV 480-210455/19		10/28/2014 13:21	1		ZB-5 0.25(mm)
CCV 480-210455/19		10/28/2014 13:21	1		ZB-35 0.53(mm)
ZZZZZ		10/28/2014 14:06	1		ZB-5 0.25(mm)
ZZZZZ		10/28/2014 14:06	1		ZB-35 0.53(mm)
ZZZZZ		10/28/2014 14:21	1		ZB-5 0.25(mm)
ZZZZZ		10/28/2014 14:21	1		ZB-35 0.53(mm)
ZZZZZ		10/28/2014 14:36	20		ZB-5 0.25(mm)
ZZZZZ		10/28/2014 14:36	20		ZB-35 0.53(mm)
ZZZZZ		10/28/2014 14:50	1		ZB-5 0.25(mm)
ZZZZZ		10/28/2014 14:50	1		ZB-35 0.53(mm)
ZZZZZ		10/28/2014 15:05	10		ZB-5 0.25(mm)
ZZZZZ		10/28/2014 15:05	10		ZB-35 0.53(mm)
ZZZZZ		10/28/2014 15:20	10		ZB-5 0.25(mm)
ZZZZZ		10/28/2014 15:20	10		ZB-35 0.53(mm)
ZZZZZ		10/28/2014 15:35	20		ZB-5 0.25(mm)

8082A

PCBS ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-70101-1

SDG No.:

Instrument ID: HP5890-12 Start Date: 10/28/2014 08:46

Analysis Batch Number: 210455 End Date: 10/29/2014 03:43

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		10/28/2014 15:35	20		ZB-35 0.53(mm)
CCV 480-210455/29		10/28/2014 15:50	1		ZB-5 0.25(mm)
CCV 480-210455/29		10/28/2014 15:50	1		ZB-35 0.53(mm)
ZZZZZ		10/28/2014 16:20	1		ZB-5 0.25(mm)
ZZZZZ		10/28/2014 16:20	1		ZB-35 0.53(mm)
ZZZZZ		10/28/2014 16:35	1		ZB-5 0.25(mm)
ZZZZZ		10/28/2014 16:35	1		ZB-35 0.53(mm)
ZZZZZ		10/28/2014 16:49	1		ZB-5 0.25(mm)
ZZZZZ		10/28/2014 16:49	1		ZB-35 0.53(mm)
ZZZZZ		10/28/2014 17:04	1		ZB-5 0.25(mm)
ZZZZZ		10/28/2014 17:04	1		ZB-35 0.53(mm)
ZZZZZ		10/28/2014 17:49	1		ZB-5 0.25(mm)
ZZZZZ		10/28/2014 17:49	1		ZB-35 0.53(mm)
ZZZZZ		10/28/2014 18:04	1		ZB-5 0.25(mm)
ZZZZZ		10/28/2014 18:04	1		ZB-35 0.53(mm)
ZZZZZ		10/28/2014 18:19	1		ZB-5 0.25(mm)
ZZZZZ		10/28/2014 18:19	1		ZB-35 0.53(mm)
ZZZZZ		10/28/2014 18:33	1		ZB-5 0.25(mm)
ZZZZZ		10/28/2014 18:33	1		ZB-35 0.53(mm)
CCV 480-210455/41		10/28/2014 18:48	1		ZB-5 0.25(mm)
CCV 480-210455/41		10/28/2014 18:48	1		ZB-35 0.53(mm)
ZZZZZ		10/28/2014 19:18	1		ZB-5 0.25(mm)
ZZZZZ		10/28/2014 19:18	1		ZB-35 0.53(mm)
ZZZZZ		10/28/2014 19:33	1		ZB-5 0.25(mm)
ZZZZZ		10/28/2014 19:33	1		ZB-35 0.53(mm)
ZZZZZ		10/28/2014 19:48	1		ZB-5 0.25(mm)
ZZZZZ		10/28/2014 19:48	1		ZB-35 0.53(mm)
ZZZZZ		10/28/2014 20:03	1		ZB-5 0.25(mm)
ZZZZZ		10/28/2014 20:03	1		ZB-35 0.53(mm)
ZZZZZ		10/28/2014 20:17	1		ZB-5 0.25(mm)
ZZZZZ		10/28/2014 20:17	1		ZB-35 0.53(mm)
ZZZZZ		10/28/2014 20:32	1		ZB-5 0.25(mm)
ZZZZZ		10/28/2014 20:32	1		ZB-35 0.53(mm)
ZZZZZ		10/28/2014 20:47	1		ZB-5 0.25(mm)
ZZZZZ		10/28/2014 20:47	1		ZB-35 0.53(mm)
CCV 480-210455/50		10/28/2014 21:02	1		ZB-5 0.25(mm)
CCV 480-210455/50		10/28/2014 21:02	1		ZB-35 0.53(mm)
ZZZZZ		10/28/2014 21:32	1		ZB-5 0.25(mm)
ZZZZZ		10/28/2014 21:32	1		ZB-35 0.53(mm)
ZZZZZ		10/28/2014 21:46	1		ZB-5 0.25(mm)
ZZZZZ		10/28/2014 21:46	1		ZB-35 0.53(mm)
ZZZZZ		10/28/2014 22:01	1		ZB-5 0.25(mm)
ZZZZZ		10/28/2014 22:01	1		ZB-35 0.53(mm)
ZZZZZ		10/28/2014 22:16	1		ZB-5 0.25(mm)
ZZZZZ		10/28/2014 22:16	1		ZB-35 0.53(mm)

8082A

PCBS ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-70101-1

SDG No.:

Instrument ID: HP5890-12 Start Date: 10/28/2014 08:46

Analysis Batch Number: 210455 End Date: 10/29/2014 03:43

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		10/28/2014 22:31	1		ZB-5 0.25(mm)
ZZZZZ		10/28/2014 22:31	1		ZB-35 0.53(mm)
ZZZZZ		10/28/2014 22:46	1		ZB-5 0.25(mm)
ZZZZZ		10/28/2014 22:46	1		ZB-35 0.53(mm)
ZZZZZ		10/28/2014 23:01	1		ZB-5 0.25(mm)
ZZZZZ		10/28/2014 23:01	1		ZB-35 0.53(mm)
ZZZZZ		10/28/2014 23:16	1		ZB-5 0.25(mm)
ZZZZZ		10/28/2014 23:16	1		ZB-35 0.53(mm)
ZZZZZ		10/28/2014 23:30	1		ZB-5 0.25(mm)
ZZZZZ		10/28/2014 23:30	1		ZB-35 0.53(mm)
ZZZZZ		10/28/2014 23:45	1		ZB-5 0.25(mm)
ZZZZZ		10/28/2014 23:45	1		ZB-35 0.53(mm)
CCV 480-210455/62		10/29/2014 00:00	1		ZB-5 0.25(mm)
CCV 480-210455/62		10/29/2014 00:00	1		ZB-35 0.53(mm)
ZZZZZ		10/29/2014 00:30	1		ZB-5 0.25(mm)
ZZZZZ		10/29/2014 00:30	1		ZB-35 0.53(mm)
ZZZZZ		10/29/2014 00:45	1		ZB-5 0.25(mm)
ZZZZZ		10/29/2014 00:45	1		ZB-35 0.53(mm)
ZZZZZ		10/29/2014 00:59	1		ZB-5 0.25(mm)
ZZZZZ		10/29/2014 00:59	1		ZB-35 0.53(mm)
CCV 480-210455/67		10/29/2014 01:14	1		ZB-5 0.25(mm)
CCV 480-210455/67		10/29/2014 01:14	1		ZB-35 0.53(mm)
ZZZZZ		10/29/2014 01:44	1		ZB-5 0.25(mm)
ZZZZZ		10/29/2014 01:44	1		ZB-35 0.53(mm)
ZZZZZ		10/29/2014 01:59	1		ZB-5 0.25(mm)
ZZZZZ		10/29/2014 01:59	1		ZB-35 0.53(mm)
ZZZZZ		10/29/2014 02:14	1		ZB-5 0.25(mm)
ZZZZZ		10/29/2014 02:14	1		ZB-35 0.53(mm)
ZZZZZ		10/29/2014 02:29	50		ZB-5 0.25(mm)
ZZZZZ		10/29/2014 02:29	50		ZB-35 0.53(mm)
ZZZZZ		10/29/2014 02:44	20		ZB-5 0.25(mm)
ZZZZZ		10/29/2014 02:44	20		ZB-35 0.53(mm)
ZZZZZ		10/29/2014 02:58	5		ZB-5 0.25(mm)
ZZZZZ		10/29/2014 02:58	5		ZB-35 0.53(mm)
ZZZZZ		10/29/2014 03:13	50		ZB-5 0.25(mm)
ZZZZZ		10/29/2014 03:13	50		ZB-35 0.53(mm)
ZZZZZ		10/29/2014 03:28	20		ZB-5 0.25(mm)
ZZZZZ		10/29/2014 03:28	20		ZB-35 0.53(mm)
CCV 480-210455/77		10/29/2014 03:43	1		ZB-5 0.25(mm)
CCV 480-210455/77		10/29/2014 03:43	1		ZB-35 0.53(mm)

PCBS BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-70101-1

SDG No.:

Batch Number: 210224 Batch Start Date: 10/27/14 10:25 Batch Analyst: Fortain, Gerald V

Batch Method: 3550C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	CalcMsg	InitialAmount	FinalAmount	O_8081/82surr 00069	O_8082spike 00034	AnalysisComment
MB 480-210224/1		3550C, 8082A		CALC NOT SET TO RUN	+2.96 g	10 mL	1 mL		
LCS 480-210224/2		3550C, 8082A		CALC NOT SET TO RUN	+2.71 g	10 mL	1 mL	1 mL	
480-70101-B-1	AS-CONC-PIERS	3550C, 8082A	T	CALC NOT SET TO RUN	+2.48 g	10 mL	1 mL		Rocks
480-70101-B-2	AS-CONC-OUTLET	3550C, 8082A	T	CALC NOT SET TO RUN	+2.56 g	10 mL	1 mL		Rocks

Batch Notes	
Acid used for Clean Up Reagent	Sulfuric; 0000065090
Balance ID	40029
Blank Soil Lot Number	27864006
Analyst performed Clean Up	GF; 10/27/14
Na2SO4 Lot Number	27864006
Nominal Amount Used	2 g
Prep Solvent Lot #	0000090198
Prep Solvent Name	Hexane
Prep Solvent Volume Used	10 mL
Person's name who witnessed reagent drop	GF
Perform Calculation (0=No, 1=Yes)	0
Vendor of Reagent used	Hexane

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.

METALS

COVER PAGE
METALS

Lab Name: TestAmerica Buffalo Job Number: 480-70101-1

SDG No.:

Project: Altech Specialty Steel; Dunkirk, NY

Client Sample ID	Lab Sample ID
AS-CONC-PIERS	480-70101-1
AS-CONC-OUTLET	480-70101-2

Comments:

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: AS-CONC-PIERS
Lab Sample ID: 480-70101-1
Lab Name: TestAmerica Buffalo
Job No.: 480-70101-1
SDG ID.:
Matrix: Solid
Date Sampled: 10/23/2014 14:00
Reporting Basis: DRY
Date Received: 10/24/2014 16:05
% Solids: 94.0

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	10300	10.8	4.7	mg/Kg		^	1	6010C
7440-36-0	Antimony	ND	16.1	0.43	mg/Kg			1	6010C
7440-38-2	Arsenic	4.7	2.2	0.43	mg/Kg			1	6010C
7440-39-3	Barium	44.1	0.54	0.12	mg/Kg			1	6010C
7440-41-7	Beryllium	0.34	0.22	0.030	mg/Kg			1	6010C
7440-43-9	Cadmium	0.069	0.22	0.032	mg/Kg	J		1	6010C
7440-70-2	Calcium	89300	53.8	3.5	mg/Kg		B	1	6010C
7440-47-3	Chromium	36.4	0.54	0.22	mg/Kg			1	6010C
7440-48-4	Cobalt	5.5	0.54	0.054	mg/Kg			1	6010C
7440-50-8	Copper	13.7	1.1	0.23	mg/Kg			1	6010C
7439-89-6	Iron	9580	10.8	1.2	mg/Kg			1	6010C
7439-92-1	Lead	5.6	1.1	0.26	mg/Kg			1	6010C
7439-95-4	Magnesium	6210	21.5	1.0	mg/Kg			1	6010C
7439-96-5	Manganese	138	0.22	0.034	mg/Kg			1	6010C
7440-02-0	Nickel	35.8	5.4	0.25	mg/Kg			1	6010C
7440-09-7	Potassium	602	32.3	21.5	mg/Kg			1	6010C
7782-49-2	Selenium	0.50	4.3	0.43	mg/Kg	J	B	1	6010C
7440-22-4	Silver	ND	0.65	0.22	mg/Kg			1	6010C
7440-23-5	Sodium	171	151	14.0	mg/Kg			1	6010C
7440-28-0	Thallium	ND	6.5	0.32	mg/Kg			1	6010C
7440-62-2	Vanadium	17.2	0.54	0.12	mg/Kg			1	6010C
7440-66-6	Zinc	28.4	2.2	0.16	mg/Kg		B ^	1	6010C
7439-97-6	Hg	ND	0.020	0.0080	mg/Kg			1	7471B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: AS-CONC-OUTLET
Lab Sample ID: 480-70101-2
Lab Name: TestAmerica Buffalo
Job No.: 480-70101-1
SDG ID.:
Matrix: Solid
Date Sampled: 10/23/2014 14:30
Reporting Basis: DRY
Date Received: 10/24/2014 16:05
% Solids: 97.2

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	8180	9.7	4.3	mg/Kg		^	1	6010C
7440-36-0	Antimony	ND	14.5	0.39	mg/Kg			1	6010C
7440-38-2	Arsenic	6.5	1.9	0.39	mg/Kg			1	6010C
7440-39-3	Barium	68.1	0.48	0.11	mg/Kg			1	6010C
7440-41-7	Beryllium	0.40	0.19	0.027	mg/Kg			1	6010C
7440-43-9	Cadmium	0.070	0.19	0.029	mg/Kg	J		1	6010C
7440-70-2	Calcium	70400	48.4	3.2	mg/Kg		B	1	6010C
7440-47-3	Chromium	13.8	0.48	0.19	mg/Kg			1	6010C
7440-48-4	Cobalt	5.1	0.48	0.048	mg/Kg			1	6010C
7440-50-8	Copper	15.7	0.97	0.20	mg/Kg			1	6010C
7439-89-6	Iron	14100	9.7	1.1	mg/Kg			1	6010C
7439-92-1	Lead	6.8	0.97	0.23	mg/Kg			1	6010C
7439-95-4	Magnesium	5030	19.4	0.90	mg/Kg			1	6010C
7439-96-5	Manganese	280	0.19	0.031	mg/Kg			1	6010C
7440-02-0	Nickel	19.0	4.8	0.22	mg/Kg			1	6010C
7440-09-7	Potassium	986	29.0	19.4	mg/Kg			1	6010C
7782-49-2	Selenium	2.1	3.9	0.39	mg/Kg	J	B	1	6010C
7440-22-4	Silver	ND	0.58	0.19	mg/Kg			1	6010C
7440-23-5	Sodium	139	135	12.6	mg/Kg			1	6010C
7440-28-0	Thallium	ND	5.8	0.29	mg/Kg			1	6010C
7440-62-2	Vanadium	13.6	0.48	0.11	mg/Kg			1	6010C
7440-66-6	Zinc	28.2	1.9	0.15	mg/Kg		B ^	1	6010C
7439-97-6	Hg	ND	0.019	0.0076	mg/Kg			1	7471B

Lab Name: TestAmerica Buffalo Job No.: 480-70101-1

SDG No.:

ICV Source: MEI_04_ICV_00263 Concentration Units: mg/L

CCV Source: MEI_09_CCV_00177

Analyte	ICV 480-210921/5 10/29/2014 16:14				CCV 480-210921/14 10/30/2014 03:29				CCV 480-210921/23 10/30/2014 04:03			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Aluminum	19.48		18.8	104	26.62		25.0	106	26.96		25.0	108
Antimony	0.375		0.375	100	0.509		0.500	102	0.520		0.500	104
Arsenic	0.365		0.375	97	0.508		0.500	102	0.515		0.500	103
Barium	0.389		0.375	104	0.512		0.500	102	0.509		0.500	102
Beryllium	0.368		0.375	98	0.508		0.500	102	0.508		0.500	102
Cadmium	0.374		0.375	100	0.511		0.500	102	0.517		0.500	103
Calcium	18.70		18.8	100	25.80		25.0	103	26.30		25.0	105
Chromium	0.385		0.375	103	0.524		0.500	105	0.529		0.500	106
Cobalt	0.372		0.375	99	0.511		0.500	102	0.513		0.500	103
Copper	0.378		0.375	101	0.518		0.500	104	0.521		0.500	104
Iron	18.61		18.8	99	25.57		25.0	102	25.64		25.0	103
Lead	0.376		0.375	100	0.516		0.500	103	0.519		0.500	104
Magnesium	19.31		18.8	103	26.27		25.0	105	26.32		25.0	105
Manganese	0.387		0.375	103	0.527		0.500	105	0.534		0.500	107
Nickel	0.373		0.375	100	0.518		0.500	104	0.518		0.500	104
Potassium	18.61		18.8	99	25.61		25.0	102	25.73		25.0	103
Selenium	0.368		0.375	98	0.509		0.500	102	0.516		0.500	103
Silver	0.390		0.375	104	0.537		0.500	107	0.540		0.500	108
Sodium	18.60		18.8	99	25.77		25.0	103	26.02		25.0	104
Thallium	0.375		0.375	100	0.508		0.500	102	0.515		0.500	103
Vanadium	0.384		0.375	102	0.523		0.500	105	0.525		0.500	105
Zinc	0.393		0.375	105	0.537		0.500	107	0.540		0.500	108

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 Buffalo Job No.: 480-70101-1

SDG No.:

ICV Source: MEI_04_ICV_00263 Concentration Units: mg/L

CCV Source: MEI_09_CCV_00177

Analyte	CCV 480-210921/35 10/30/2014 04:37											
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Aluminum	26.78		25.0	107								
Antimony	0.513		0.500	103								
Arsenic	0.516		0.500	103								
Barium	0.512		0.500	102								
Beryllium	0.511		0.500	102								
Cadmium	0.518		0.500	104								
Calcium	26.13		25.0	105								
Chromium	0.529		0.500	106								
Cobalt	0.516		0.500	103								
Copper	0.518		0.500	104								
Iron	25.78		25.0	103								
Lead	0.522		0.500	104								
Magnesium	26.49		25.0	106								
Manganese	0.532		0.500	106								
Nickel	0.520		0.500	104								
Potassium	25.80		25.0	103								
Selenium	0.500		0.500	100								
Silver	0.542		0.500	108								
Sodium	25.72		25.0	103								
Thallium	0.508		0.500	102								
Vanadium	0.522		0.500	104								
Zinc	0.544		0.500	109								

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

Lab Name: TestAmerica Buffalo Job No.: 480-70101-1

SDG No.:

ICV Source: MEI_10_CCVL_00054 Concentration Units: mg/L

CCV Source: MEI_10_CCVL_00054

Analyte	ICVL 480-210921/7 10/29/2014 16:19				CCVL 480-210921/16 10/30/2014 03:34				CCVL 480-210921/25 10/30/2014 04:08			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Aluminum	0.204		0.200	102	0.201		0.200	100	0.199	J	0.200	100
Antimony	0.0202		0.0200	101	0.0194	J	0.0200	97	0.0191	J	0.0200	96
Arsenic	0.0119	J	0.0150	79	0.0149	J	0.0150	99	0.0150		0.0150	100
Barium	0.00210		0.00200	105	0.00211		0.00200	106	0.00219		0.00200	110
Beryllium	0.00207		0.00200	104	0.00203		0.00200	102	0.00204		0.00200	102
Cadmium	0.00190	J	0.00200	95	0.00176	J	0.00200	88	0.00184	J	0.00200	92
Calcium	0.490	J	0.500	98	0.489	J	0.500	98	0.494	J	0.500	99
Chromium	0.00402		0.00400	101	0.00379	J	0.00400	95	0.00422		0.00400	106
Cobalt	0.00385	J	0.00400	96	0.00389	J	0.00400	97	0.00384	J	0.00400	96
Copper	0.00865	J	0.0100	87	0.00871	J	0.0100	87	0.00867	J	0.0100	87
Iron	0.0497	J	0.0500	99	0.0493	J	0.0500	99	0.0513		0.0500	103
Lead	0.0108		0.0100	108	0.00924	J	0.0100	92	0.0109		0.0100	109
Magnesium	0.202		0.200	101	0.202		0.200	101	0.203		0.200	102
Manganese	0.00277	J	0.00300	92	0.00279	J	0.00300	93	0.00289	J	0.00300	96
Nickel	0.00927	J	0.0100	93	0.00985	J	0.0100	99	0.00943	J	0.0100	94
Potassium	0.506		0.500	101	0.459	J	0.500	92	0.464	J	0.500	93
Selenium	0.0296		0.0250	118	0.0240	J	0.0250	96	0.0288		0.0250	115
Silver	0.00604		0.00600	101	0.00571	J	0.00600	95	0.00678		0.00600	113
Sodium	0.974	J	1.00	97	0.983	J	1.00	98	0.972	J	1.00	97
Thallium	0.0169	J	0.0200	85	0.0172	J	0.0200	86	0.0183	J	0.0200	91
Vanadium	0.00473	J	0.00500	95	0.00511		0.00500	102	0.00459	J	0.00500	92
Zinc	0.0118		0.0100	118	0.0107		0.0100	107	0.0107		0.0100	107

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

Lab Name: TestAmerica Buffalo Job No.: 480-70101-1

SDG No.:

ICV Source: MEI_10_CCVL_00054 Concentration Units: mg/L

CCV Source: MEI_10_CCVL_00054

Analyte	CCVL 480-210921/37 10/30/2014 04:42											
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Aluminum	0.276		0.200	138								
Antimony	0.0193	J	0.0200	97								
Arsenic	0.0107	J	0.0150	71								
Barium	0.00215		0.00200	108								
Beryllium	0.00205		0.00200	103								
Cadmium	0.00169	J	0.00200	85								
Calcium	0.502		0.500	100								
Chromium	0.00463		0.00400	116								
Cobalt	0.00389	J	0.00400	97								
Copper	0.00870	J	0.0100	87								
Iron	0.0503		0.0500	101								
Lead	0.0124		0.0100	124								
Magnesium	0.203		0.200	102								
Manganese	0.00292	J	0.00300	97								
Nickel	0.00900	J	0.0100	90								
Potassium	0.492	J	0.500	98								
Selenium	0.0254		0.0250	102								
Silver	0.00595	J	0.00600	99								
Sodium	0.978	J	1.00	98								
Thallium	0.0200		0.0200	100								
Vanadium	0.00507		0.00500	101								
Zinc	0.0131		0.0100	131								

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

Lab Name: TestAmerica Buffalo Job No.: 480-70101-1

SDG No.:

ICV Source: MEH_HG2_WKG_00764 Concentration Units: mg/L

CCV Source: MEH_HG2_WKG_00764

Analyte	ICV 480-210285/1 10/27/2014 12:52				ICVL 480-210285/3 10/27/2014 12:55				CCV 480-210285/4 10/27/2014 12:57			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Hg	0.00318		0.00300	106	0.000208		0.000200	104	0.00210		0.00200	105

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

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-70101-1

SDG No.:

ICV Source: MEH_HG2_WKG_00764 Concentration Units: mg/L

CCV Source: MEH_HG2_WKG_00764

Analyte	CCV 480-210285/16 10/27/2014 13:18				CCV 480-210285/28 10/27/2014 13:39				CCVL 480-210285/30 10/27/2014 13:43			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Hg	0.00210		0.00200	105	0.00209		0.00200	105	0.000201		0.000200	101

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 Buffalo Job No.: 480-70101-1

SDG No.:

Concentration Units: mg/L

Analyte	RL	ICB 480-210921/6 10/29/2014 16:17		CCB 480-210921/15 10/30/2014 03:32		CCB 480-210921/24 10/30/2014 04:05		CCB 480-210921/36 10/30/2014 04:39	
		Found	C	Found	C	Found	C	Found	C
Aluminum	0.20	ND		ND		ND		ND	
Antimony	0.020	ND		ND		ND		ND	
Arsenic	0.015	ND		ND		ND		ND	
Barium	0.0020	ND		ND		ND		ND	
Beryllium	0.0020	ND		ND		ND		ND	
Cadmium	0.0020	ND		ND		ND		ND	
Calcium	0.50	ND		ND		ND		ND	
Chromium	0.0040	ND		ND		ND		ND	
Cobalt	0.0040	ND		ND		ND		ND	
Copper	0.010	ND		ND		ND		ND	
Iron	0.050	ND		ND		ND		ND	
Lead	0.010	ND		ND		ND		ND	
Magnesium	0.20	ND		ND		ND		ND	
Manganese	0.0030	ND		ND		ND		ND	
Nickel	0.010	ND		ND		ND		ND	
Potassium	0.50	ND		ND		ND		ND	
Selenium	0.025	ND		ND		ND		ND	
Silver	0.0060	ND		ND		ND		ND	
Sodium	1.0	ND		ND		ND		ND	
Thallium	0.020	ND		ND		ND		ND	
Vanadium	0.0050	ND		ND		ND		ND	
Zinc	0.010	0.00152	J	ND		ND		ND	

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-70101-1

SDG No.:

Concentration Units: mg/L

Analyte	RL	ICB 480-210285/2 10/27/2014 12:54		CCB 480-210285/5 10/27/2014 12:59		CCB 480-210285/17 10/27/2014 13:20		CCB 480-210285/29 10/27/2014 13:41	
		Found	C	Found	C	Found	C	Found	C
Hg	0.00020	ND		ND		ND		ND	

Italicized analytes were not requested for this sequence.

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-70101-1

SDG No.:

Concentration Units: mg/Kg Lab Sample ID: MB 480-210509/1-A

Instrument Code: ICAP1 Batch No.: 210921

CAS No.	Analyte	Concentration	C	Q	Method
7429-90-5	Aluminum	ND			6010C
7440-36-0	Antimony	ND			6010C
7440-38-2	Arsenic	ND			6010C
7440-39-3	Barium	ND			6010C
7440-41-7	Beryllium	ND			6010C
7440-43-9	Cadmium	ND			6010C
7440-70-2	Calcium	4.89	J		6010C
7440-47-3	Chromium	ND			6010C
7440-48-4	Cobalt	ND			6010C
7440-50-8	Copper	ND			6010C
7439-89-6	Iron	ND			6010C
7439-92-1	Lead	ND			6010C
7439-95-4	Magnesium	ND			6010C
7439-96-5	Manganese	ND			6010C
7440-02-0	Nickel	ND			6010C
7440-09-7	Potassium	ND			6010C
7782-49-2	Selenium	0.946	J		6010C
7440-22-4	Silver	ND			6010C
7440-23-5	Sodium	ND			6010C
7440-28-0	Thallium	ND			6010C
7440-62-2	Vanadium	ND			6010C
7440-66-6	Zinc	0.403	J		6010C

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-70101-1

SDG No.:

Concentration Units: mg/Kg Lab Sample ID: MB 480-210199/1-A

Instrument Code: LEEMAN3 Batch No.: 210285

CAS No.	Analyte	Concentration	C	Q	Method
7439-97-6	Hg	ND			7471B

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-70101-1

SDG No.:

Lab Sample ID: ICSA 480-210921/9 Instrument ID: ICAP1

Lab File ID: I1102914B-8.asc ICS Source: MEI_07_ICSA_00070

Concentration Units: mg/L

Analyte	True Solution A	Found Solution A	Percent Recovery
Aluminum	**500**	**530**	**106**
Antimony		**0.0099**	
Arsenic		**0.0067**	
Barium		**0.0001**	
Beryllium		**0.0000**	
Cadmium		**0.0007**	
Calcium	**500**	**474**	**95**
Chromium		**0.0010**	
Cobalt		**-0.0012**	
Copper		**0.0028**	
Iron	**200**	**183**	**92**
Lead		**0.0014**	
Magnesium	**500**	**487**	**97**
Manganese		**0.0038**	
Nickel		**0.0112**	
Potassium		**-0.0071**	
Selenium		**-0.0033**	
Silver		**-0.0014**	
Sodium		**0.0243**	
Thallium		**-0.0203**	
Vanadium		**0.0039**	
Zinc		**0.0070**	
Boron		*0.0041*	
Lithium		*0.0068*	
Molybdenum		*-0.0025*	
Tin		*-0.0003*	
Titanium		*0.0018*	

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

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-70101-1

SDG No.:

Lab Sample ID: ICSAB 480-210921/10 Instrument ID: ICAP1

Lab File ID: I1102914B-8.asc ICS Source: MEI_08_ICSAB_00088

Concentration Units: mg/L

Analyte	True Solution AB	Found Solution AB	Found Percent Recovery
Aluminum	**501**	**525**	**105**
Antimony	**0.600**	**0.635**	**106**
Arsenic	**0.100**	**0.110**	**110**
Barium	**0.500**	**0.477**	**95**
Beryllium	**0.500**	**0.478**	**96**
Cadmium	**1.00**	**1.02**	**102**
Calcium	**501**	**469**	**94**
Chromium	**0.500**	**0.483**	**97**
Cobalt	**0.500**	**0.502**	**100**
Copper	**0.500**	**0.564**	**113**
Iron	**100**	**92.6**	**93**
Lead	**0.0500**	**0.0484**	**97**
Magnesium	**501**	**477**	**95**
Manganese	**0.500**	**0.473**	**95**
Nickel	**1.00**	**0.968**	**97**
Potassium		**0.0136**	
Selenium	**0.0500**	**0.0522**	**104**
Silver	**0.200**	**0.235**	**117**
Sodium		**0.0969**	
Thallium	**0.100**	**0.0997**	**100**
Vanadium	**0.500**	**0.496**	**99**
Zinc	**1.00**	**0.918**	**92**
Boron		*0.0121*	
Lithium	*0.500*	*0.519*	*104*
Molybdenum		*-0.0004*	
Strontium	*0.500*	*0.502*	*100*
Tin		*-0.0008*	
Titanium		*0.0030*	

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

FORM IVA-IN

7A-IN
LCS-CERTIFIED REFERENCE MATERIAL
METALS

Lab ID: LCSSRM 480-210509/2-A

Lab Name: TestAmerica Buffalo Job No.: 480-70101-1

Sample Matrix: Solid LCS Source: MED_SRM_D080_00010

Analyte	Solid(mg/Kg)							
	True	Found	C	%R	Limits		Q	Method
Aluminum	8880	6863		77.3	41.6	157.9		6010C
Antimony	110	75.40		68.7	23.0	254.6		6010C
Arsenic	153	129.8		84.6	70.9	129.8		6010C
Barium	266	221.6		83.2	73.7	126.3		6010C
Beryllium	151	112.1		74.0	67.0	111.4		6010C
Cadmium	154	128.8		83.4	73.0	126.3		6010C
Calcium	6500	5158		79.3	73.9	125.9		6010C
Chromium	119	99.44		83.6	69.7	129.9		6010C
Cobalt	69.8	62.72		89.9	74.4	125.8		6010C
Copper	69.7	59.54		85.4	73.2	129.2		6010C
Iron	12500	8909		71.3	30.5	169.9		6010C
Lead	258	221.5		85.8	75.6	124.8		6010C
Magnesium	3660	3007		82.2	68.3	131.7		6010C
Manganese	572	471.8		82.5	77.4	122.6		6010C
Nickel	320	284.1		88.8	74.3	126.7		6010C
Potassium	3090	2515		81.4	62.5	137.2		6010C
Selenium	165	138.6		84.2	67.3	132.1		6010C
Silver	45.0	39.94		88.7	66.4	133.9		6010C
Sodium	758	626.1		82.6	56.8	143.4		6010C
Thallium	263	233.7		88.8	69.5	130.5		6010C
Vanadium	118	98.39		83.5	67.5	131.9		6010C
Zinc	311	259.9		83.6	71.9	128.4		6010C

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

FORM VIIA - IN

7D-IN
LCSD - CERTIFIED REFERENCE MATERIAL
METALS

Lab ID: LCDSRM 480-210509/3-A

Lab Name: TestAmerica Buffalo Job No.: 480-70101-1

Sample Matrix: Solid LCS Source: MED_SRM_D080_00010

Analyte	(SDR)	C	Spike Added	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Aluminum	7559		8880	85.1	.6-157.9	10	20		6010C
Antimony	82.63		110	75.3	.0-254.6	9	20		6010C
Arsenic	139.9		153	91.2	.9-129.8	7	20		6010C
Barium	237.0		266	89.0	.7-126.3	7	20		6010C
Beryllium	122.4		151	80.8	.0-111.4	9	20		6010C
Cadmium	140.6		155	91.0	.0-126.3	9	20		6010C
Calcium	5809		6510	89.3	.9-125.9	12	20		6010C
Chromium	108.9		119	91.6	.7-129.9	9	20		6010C
Cobalt	68.57		69.8	98.2	.4-125.8	9	20		6010C
Copper	66.40		69.7	95.2	.2-129.2	11	20		6010C
Iron	9852		12500	78.8	.5-169.9	10	20		6010C
Lead	243.4		258	94.3	.6-124.8	9	20		6010C
Magnesium	3202		3660	87.5	.3-131.7	6	20		6010C
Manganese	506.5		572	88.5	.4-122.6	7	20		6010C
Nickel	309.6		320	96.7	.3-126.7	9	20		6010C
Potassium	2746		3090	88.9	.5-137.2	9	20		6010C
Selenium	150.7		165	91.5	.3-132.1	8	20		6010C
Silver	43.21		45.0	96.0	.4-133.9	8	20		6010C
Sodium	692.6		758	91.3	.8-143.4	10	20		6010C
Thallium	250.1		263	95.0	.5-130.5	7	20		6010C
Vanadium	108.3		118	91.8	.5-131.9	10	20		6010C
Zinc	282.3		311	90.8	.9-128.4	8	20		6010C

SDR = Spike Duplicate Results
Calculations are performed before rounding to avoid round-off errors in calculated results.

7A-IN
LCS-CERTIFIED REFERENCE MATERIAL
METALS

Lab ID: LCSSRM 480-210199/2-A

Lab Name: TestAmerica Buffalo Job No.: 480-70101-1

Sample Matrix: Solid LCS Source: MED_SRM_D080_00009

Analyte	Solid(mg/Kg)							
	True	Found	C	%R	Limits		Q	Method
Hg	3.98	4.13		103.8	51.0	149.0		7471B

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

FORM VIIA - IN

9-IN
DETECTION LIMITS
METALS

Lab Name: TestAmerica Buffalo Job Number: 480-70101-1

SDG Number:

Matrix: Solid Instrument ID: ICAP1

Method: 6010C MDL Date: 07/17/2013 10:52

Prep Method: 3050B

Analyte	Wavelength/ Mass	RL (mg/Kg)	MDL (mg/Kg)
Aluminum	308.215	10	4.4
Antimony	206.833	15	0.4
Arsenic	189.042	2	0.4
Barium	455.403	0.5	0.11
Beryllium	313.042	0.2	0.028
Cadmium	228.802	0.2	0.03
Calcium	317.933	50	3.3
Chromium	267.716	0.5	0.2
Cobalt	228.616	0.5	0.05
Copper	324.754	1	0.21
Iron	259.940	10	1.1
Lead	220.353	1	0.24
Magnesium	279.079	20	0.927
Manganese	257.610	0.2	0.032
Nickel	231.604	5	0.23
Potassium	766.490	30	20
Selenium	196.090	4	0.4
Silver	328.068	0.6	0.2
Sodium	589.592	140	13
Thallium	190.856	6	0.3
Vanadium	292.402	0.5	0.11
Zinc	206.200	2	0.153

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS

Lab Name: TestAmerica Buffalo Job Number: 480-70101-1

SDG Number:

Matrix: Solid Instrument ID: ICAP1

Method: 6010C XMDL Date: 07/17/2013 10:53

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Aluminum	308.215	0.2	0.06
Antimony	206.833	0.02	0.00679
Arsenic	189.042	0.015	0.00555
Barium	455.403	0.002	0.0007
Beryllium	313.042	0.002	0.0003
Cadmium	228.802	0.002	0.0005
Calcium	317.933	0.5	0.1
Chromium	267.716	0.004	0.001
Cobalt	228.616	0.004	0.00063
Copper	324.754	0.01	0.0016
Iron	259.940	0.05	0.0193
Lead	220.353	0.01	0.003
Magnesium	279.079	0.2	0.0434
Manganese	257.610	0.003	0.0004
Nickel	231.604	0.01	0.00126
Potassium	766.490	0.5	0.1
Selenium	196.090	0.025	0.0087
Silver	328.068	0.006	0.0017
Sodium	589.592	1	0.324
Thallium	190.856	0.02	0.01024
Vanadium	292.402	0.005	0.0015
Zinc	206.200	0.01	0.0015

9-IN
DETECTION LIMITS
METALS

Lab Name: TestAmerica Buffalo Job Number: 480-70101-1

SDG Number:

Matrix: Solid Instrument ID: LEEMAN3

Method: 7471B MDL Date: 01/29/2010 00:00

Prep Method: 7471B

Analyte	Wavelength/ Mass	RL (mg/Kg)	MDL (mg/Kg)
Hg	253.7	0.02	0.0081

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS

Lab Name: TestAmerica Buffalo Job Number: 480-70101-1

SDG Number:

Matrix: Solid Instrument ID: LEEMAN3

Method: 7471B XMDL Date: 01/29/2010 00:00

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Hg	253.7	0.0002	0.00012

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: TestAmerica Buffalo Job Number: 480-70101-1

SDG No.:

ICP-AES Instrument ID: ICAP1 Date: 08/21/2014

Analyte	Wave Length	Ag	Al	As	B	Ba	Be	Ca	Cd	Co	Cr	Cu	Fe	K	Li
Aluminum	308.215														
Antimony	206.833		-0.000045												
Arsenic	189.042		0.000025								-0.011700				
Barium	455.403														
Beryllium	313.042														
Boron	208.959														
Cadmium	228.802			0.005314											
Calcium	317.933														
Chromium	267.716												-0.000013		
Cobalt	228.616														
Copper	324.754														
Iron	259.940														
Lead	220.353		-0.000024									-0.000414	0.000048		
Lithium	670.784														
Magnesium	279.079														
Manganese	257.610														
Molybdenum	202.030														
Nickel	231.604														
Potassium	766.490														
Selenium	196.090		-0.000025												
Silicon	288.158														
Silver	328.068												-0.000011		
Sodium	589.592														
Strontium	407.771														
Sulfur	182.034		-0.000267												
Thallium	190.856		-0.000006												
Tin	189.989														
Titanium	334.904														
Vanadium	292.402														
Zinc	206.200										-0.002131				

X-IN

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: TestAmerica Buffalo Job Number: 480-70101-1

SDG No.:

ICP-AES Instrument ID: ICAP1 Date: 08/21/2014

Analyte	Wave Length	Mg	Mn	Mo	Na	Ni	Pb	S	Sb	Se	Si	Sn	Sr	Ti	Tl
Aluminum	308.215														
Antimony	206.833														
Arsenic	189.042			-0.005550											
Barium	455.403														
Beryllium	313.042													-0.000806	
Boron	208.959										0.000150				
Cadmium	228.802										0.000004				
Calcium	317.933														
Chromium	267.716														
Cobalt	228.616			-0.001330							-0.000017				
Copper	324.754													-0.001560	
Iron	259.940														
Lead	220.353			-0.001750							0.000172	0.001825		-0.000692	
Lithium	670.784														
Magnesium	279.079		-0.007000												
Manganese	257.610														
Molybdenum	202.030														
Nickel	231.604														
Potassium	766.490														
Selenium	196.090		0.000300								0.000015				
Silicon	288.158								0.004460						
Silver	328.068		0.000100												
Sodium	589.592														
Strontium	407.771														
Sulfur	182.034														
Thallium	190.856														
Tin	189.989													-0.000393	
Titanium	334.904														
Vanadium	292.402			-0.006520											
Zinc	206.200														

X-IN

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: TestAmerica Buffalo Job Number: 480-70101-1

SDG No.:

ICP-AES Instrument ID: ICAP1 Date: 08/21/2014

Analyte	Wave Length	V	Zn												
Aluminum	308.215	0.000143													
Antimony	206.833														
Arsenic	189.042														
Barium	455.403														
Beryllium	313.042														
Boron	208.959														
Cadmium	228.802	0.000059													
Calcium	317.933														
Chromium	267.716														
Cobalt	228.616														
Copper	324.754	-0.000318													
Iron	259.940														
Lead	220.353														
Lithium	670.784														
Magnesium	279.079														
Manganese	257.610														
Molybdenum	202.030														
Nickel	231.604														
Potassium	766.490														
Selenium	196.090														
Silicon	288.158														
Silver	328.068	0.000072													
Sodium	589.592														
Strontium	407.771														
Sulfur	182.034														
Thallium	190.856														
Tin	189.989														
Titanium	334.904														
Vanadium	292.402														
Zinc	206.200														

X-IN

11-IN
LINEAR RANGES
METALS

Lab Name: TestAmerica Buffalo Job No: 480-70101-1

SDG No.:

Instrument ID: ICAP1 Date: 10/14/2014 14:48

Analyte	Integ. Time (Sec.)	Concentration (mg/L)	Method
Aluminum	15	1000	6010C
Antimony	15	50	6010C
Arsenic	15	40	6010C
Barium	15	10	6010C
Beryllium	15	25	6010C
Cadmium	15	5	6010C
Calcium	15	1000	6010C
Chromium	15	40	6010C
Cobalt	15	20	6010C
Copper	15	20	6010C
Iron	15	800	6010C
Lead	15	120	6010C
Magnesium	15	500	6010C
Manganese	15	50	6010C
Nickel	15	20	6010C
Potassium	15	600	6010C
Selenium	15	50	6010C
Silver	15	2	6010C
Sodium	15	5000	6010C
Thallium	15	40	6010C
Vanadium	15	50	6010C
Zinc	15	20	6010C

11-IN
LINEAR RANGES
METALS

Lab Name: TestAmerica Buffalo Job No: 480-70101-1

SDG No.:

Instrument ID: LEEMAN3 Date: 02/12/2013 11:28

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	Method
Hg	10	10	7471B

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-70101-1

SDG No.:

Prep Method: 3050B

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight (g)	Initial Volume	Final Volume (mL)
MB 480-210509/1-A	10/28/2014 11:03	210509	+0.4762		50
LCSSRM 480-210509/2-A	10/28/2014 11:03	210509	+0.4921		50
LCDSRM 480-210509/3-A	10/28/2014 11:03	210509	+0.4919		50
480-70101-1	10/28/2014 11:03	210509	+0.4947		50
480-70101-2	10/28/2014 11:03	210509	+0.5315		50

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-70101-1

SDG No.:

Prep Method: 7471B

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight (g)	Initial Volume	Final Volume (mL)
MB 480-210199/1-A	10/27/2014 11:05	210199	+0.6438		50
LCSSRM 480-210199/2-A	10/27/2014 11:05	210199	+0.0496		50
480-70101-1	10/27/2014 11:05	210199	+0.6438		50
480-70101-2	10/27/2014 11:05	210199	+0.6539		50

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-70101-1

SDG No.:

Instrument ID: ICAP1 Method: 6010C

Start Date: 10/29/2014 16:03 End Date: 10/30/2014 05:14

Lab Sample ID	D/F	Type	Time	Analytes																			
				Ag	Al	As	Ba	Be	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Na	Ni	Pb	Sb	Se	Tl
ICIS 480-210921/1	1		16:03	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
IC 480-210921/2			16:06	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
IC 480-210921/3			16:08	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
IC 480-210921/4			16:11	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICV 480-210921/5	1		16:14	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICB 480-210921/6	1		16:17	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICVL 480-210921/7	1		16:19	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ZZZZZZ			16:22																				
ICSA 480-210921/9	1		16:25	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICSAB 480-210921/10	1		16:28	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCV 480-210921/11			16:31																				
CCB 480-210921/12			16:34																				
CCVL 480-210921/13			16:37																				
CCV 480-210921/14	1		03:29	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB 480-210921/15	1		03:32	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCVL 480-210921/16	1		03:34	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
MB 480-210509/1-A	1	T	03:46	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
LCSSRM 480-210509/2-A	1	T	03:49	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
LCDSRM 480-210509/3-A	1	T	03:51	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ZZZZZZ			03:54																				
ZZZZZZ			03:57																				
ZZZZZZ			04:00																				
CCV 480-210921/23	1		04:03	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB 480-210921/24	1		04:05	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCVL 480-210921/25	1		04:08	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
480-70101-1	1	T	04:11	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
480-70101-2	1	T	04:14	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ZZZZZZ			04:17																				
ZZZZZZ			04:20																				
ZZZZZZ			04:23																				
ZZZZZZ			04:25																				
ZZZZZZ			04:28																				
ZZZZZZ			04:31																				
ZZZZZZ			04:34																				
CCV 480-210921/35	1		04:37	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB 480-210921/36	1		04:39	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCVL 480-210921/37	1		04:42	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ZZZZZZ			04:45																				
ZZZZZZ			04:48																				
ICSA 480-210921/40			04:59																				
ICSAB 480-210921/41			05:02																				
CCVL 480-210921/42			05:08																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-70101-1

SDG No.:

Instrument ID: ICAP1 Method: 6010C

Start Date: 10/29/2014 16:03 End Date: 10/30/2014 05:14

Lab Sample ID	D / F	Type	Time	Analytes																			
				Ag	Al	As	Ba	Be	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Na	Ni	Pb	Sb	Se	Tl
CCV 480-210921/43			05:11																				
CCB 480-210921/44			05:14																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-70101-1

SDG No.:

Instrument ID: ICAP1 Method: 6010C

Start Date: 10/29/2014 16:03 End Date: 10/30/2014 05:14

Lab Sample ID	D / F	Type	Time	Analytes																			
				V	Zn																		
ICIS 480-210921/1	1		16:03	X	X																		
IC 480-210921/2			16:06	X	X																		
IC 480-210921/3			16:08	X	X																		
IC 480-210921/4			16:11	X	X																		
ICV 480-210921/5	1		16:14	X	X																		
ICB 480-210921/6	1		16:17	X	X																		
ICVL 480-210921/7	1		16:19	X	X																		
ZZZZZZ			16:22																				
ICSA 480-210921/9	1		16:25	X	X																		
ICSAB 480-210921/10	1		16:28	X	X																		
CCV 480-210921/11			16:31																				
CCB 480-210921/12			16:34																				
CCVL 480-210921/13			16:37																				
CCV 480-210921/14	1		03:29	X	X																		
CCB 480-210921/15	1		03:32	X	X																		
CCVL 480-210921/16	1		03:34	X	X																		
MB 480-210509/1-A	1	T	03:46	X	X																		
LCSSRM 480-210509/2-A	1	T	03:49	X	X																		
LCDSRM 480-210509/3-A	1	T	03:51	X	X																		
ZZZZZZ			03:54																				
ZZZZZZ			03:57																				
ZZZZZZ			04:00																				
CCV 480-210921/23	1		04:03	X	X																		
CCB 480-210921/24	1		04:05	X	X																		
CCVL 480-210921/25	1		04:08	X	X																		
480-70101-1	1	T	04:11	X	X																		
480-70101-2	1	T	04:14	X	X																		
ZZZZZZ			04:17																				
ZZZZZZ			04:20																				
ZZZZZZ			04:23																				
ZZZZZZ			04:25																				
ZZZZZZ			04:28																				
ZZZZZZ			04:31																				
ZZZZZZ			04:34																				
CCV 480-210921/35	1		04:37	X	X																		
CCB 480-210921/36	1		04:39	X	X																		
CCVL 480-210921/37	1		04:42	X	X																		
ZZZZZZ			04:45																				
ZZZZZZ			04:48																				
ICSA 480-210921/40			04:59																				
ICSAB 480-210921/41			05:02																				
CCVL 480-210921/42			05:08																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-70101-1

SDG No.:

Instrument ID: ICAP1 Method: 6010C

Start Date: 10/29/2014 16:03 End Date: 10/30/2014 05:14

Lab Sample ID	D / F	Type	Time	Analytes																			
				V	Zn																		
CCV 480-210921/43			05:11																				
CCB 480-210921/44			05:14																				

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-70101-1

SDG No.:

Instrument ID: LEEMAN3 Method: 7471B

Start Date: 10/27/2014 12:52 End Date: 10/27/2014 13:43

Lab Sample ID	D / F	Type	Time	Analytes																			
				Hg																			
ICV 480-210285/1	1		12:52	X																			
ICB 480-210285/2	1		12:54	X																			
ICVL 480-210285/3	1		12:55	X																			
CCV 480-210285/4	1		12:57	X																			
CCB 480-210285/5	1		12:59	X																			
MB 480-210199/1-A	1	T	13:01	X																			
LCSSRM 480-210199/2-A	1	T	13:02	X																			
ZZZZZZ			13:04																				
480-70101-1	1	T	13:06	X																			
480-70101-2	1	T	13:08	X																			
ZZZZZZ			13:10																				
ZZZZZZ			13:11																				
ZZZZZZ			13:13																				
ZZZZZZ			13:15																				
ZZZZZZ			13:16																				
CCV 480-210285/16	1		13:18	X																			
CCB 480-210285/17	1		13:20	X																			
ZZZZZZ			13:22																				
ZZZZZZ			13:24																				
ZZZZZZ			13:25																				
ZZZZZZ			13:27																				
ZZZZZZ			13:29																				
ZZZZZZ			13:31																				
ZZZZZZ			13:32																				
ZZZZZZ			13:34																				
ZZZZZZ			13:36																				
ZZZZZZ			13:38																				
CCV 480-210285/28	1		13:39	X																			
CCB 480-210285/29	1		13:41	X																			
CCVL 480-210285/30	1		13:43	X																			

Prep Types

T = Total/NA

Run File: I1102914B Instrument: ICAP1

Analyst: jrk JM 10/30/14 Data Review: 10/30/14

Spikes Ids:2182958(W1), 2182959 (W2), 2309571(Sn), 2305149(Ag), 2309312(Si), 2294521(TCLP)

Pipette IDs: 08-08-14-(1-7,8,10,13,14)
Internal Standard: 2328685

Seq#	Run File ID	Sample ID	Date / Time	Type
1	I1102914B	icis-2359629	10/29/14 04:03 PM	Standard
2	I1102914B	ic-2359630	10/29/14 04:06 PM	Standard
3	I1102914B	ic-2359632	10/29/14 04:08 PM	Standard
4	I1102914B	ic-2359631	10/29/14 04:11 PM	Standard
5	I1102914B	ICV-2388839	10/29/14 04:14 PM	QC
6	I1102914B	ICB-2388837	10/29/14 04:17 PM	QC
7	I1102914B	ICVL-2388843	10/29/14 04:19 PM	QC
8	I1102914B	CRI-2359636	10/29/14 04:22 PM	QC
9	I1102914B	ICSA-2359635	10/29/14 04:25 PM	QC
10	I1102914B	ICSAB-2261635	10/29/14 04:28 PM	QC
11	I1102914B	CCV-2388838	10/29/14 04:31 PM	QC
12	I1102914B	CCB-2388837	10/29/14 04:34 PM	QC
13	I1102914B	CCVL-2388843	10/29/14 04:37 PM	QC
14	I1102914B	blank	10/29/14 04:39 PM	Unknown
15	I1102914B	CCV-2388838	10/29/14 04:42 PM	QC
16	I1102914B	CCB-2388837	10/29/14 04:45 PM	QC
17	I1102914B	CCVL-2388843	10/29/14 04:48 PM	QC
18	I1102914B	lcssrm 480-209860/2-	10/29/14 04:51 PM	Unknown
19	I1102914B	lcdsrm 480-209860/3-	10/29/14 04:54 PM	Unknown
20	I1102914B	BLANK	10/29/14 04:56 PM	Unknown
21	I1102914B	mb 480-210126/1-a	10/29/14 04:59 PM	Unknown
22	I1102914B	lcs 480-210126/2-a	10/29/14 05:02 PM	Unknown
23	I1102914B	480-70055-e-1-a	10/29/14 05:05 PM	Unknown
24	I1102914B	480-70055-e-2-a	10/29/14 05:08 PM	Unknown
25	I1102914B	480-70055-e-2-aPDS	10/29/14 05:10 PM	Unknown
26	I1102914B	480-70055-e-2-aSD@5	10/29/14 05:13 PM	Unknown
27	I1102914B	CCV-2388838	10/29/14 05:16 PM	QC
28	I1102914B	CCB-2388837	10/29/14 05:19 PM	QC
29	I1102914B	ccvl-2388843	10/29/14 05:22 PM	QC
30	I1102914B	480-70055-e-2-b ms	10/29/14 05:25 PM	Unknown
31	I1102914B	480-70055-e-2-c msd	10/29/14 05:27 PM	Unknown
32	I1102914B	480-70055-e-3-a	10/29/14 05:30 PM	Unknown
33	I1102914B	480-70055-e-4-a	10/29/14 05:33 PM	Unknown
34	I1102914B	480-70055-e-5-a	10/29/14 05:36 PM	Unknown
35	I1102914B	480-70055-e-6-a	10/29/14 05:39 PM	Unknown
36	I1102914B	480-70055-e-7-a	10/29/14 05:41 PM	Unknown
37	I1102914B	480-70055-e-8-a	10/29/14 05:44 PM	Unknown
38	I1102914B	480-70071-c-2-a	10/29/14 05:47 PM	Unknown
39	I1102914B	CCV-2388838	10/29/14 05:50 PM	QC
40	I1102914B	CCB-2388837	10/29/14 05:53 PM	QC

41	I1102914B	CCVL-2388843	10/29/14 05:56 PM QC
42	I1102914B	480-70071-c-3-a	10/29/14 05:59 PM Unknown
43	I1102914B	480-70071-c-4-a	10/29/14 06:01 PM Unknown
44	I1102914B	480-70069-c-2-a	10/29/14 06:04 PM Unknown
45	I1102914B	BLANK	10/29/14 06:07 PM Unknown
46	I1102914B	mb 480-210057/1-a	10/29/14 06:10 PM Unknown
47	I1102914B	lcs 480-210057/2-a	10/29/14 06:13 PM Unknown
48	I1102914B	480-70068-b-1-a	10/29/14 06:15 PM Unknown
49	I1102914B	480-70068-b-3-a	10/29/14 06:18 PM Unknown
50	I1102914B	480-70068-b-5-a	10/29/14 06:21 PM Unknown
51	I1102914B	CCV-2388838	10/29/14 06:24 PM QC
52	I1102914B	CCB-2388837	10/29/14 06:27 PM QC
53	I1102914B	CCVL-2388843	10/29/14 06:30 PM QC
54	I1102914B	480-70068-b-6-a	10/29/14 06:32 PM Unknown
55	I1102914B	480-70068-b-7-a	10/29/14 06:35 PM Unknown
56	I1102914B	480-70068-b-8-a	10/29/14 06:38 PM Unknown
57	I1102914B	480-70068-b-9-a	10/29/14 06:41 PM Unknown
58	I1102914B	480-70073-c-2-a	10/29/14 06:44 PM Unknown
59	I1102914B	480-70073-c-3-a	10/29/14 06:47 PM Unknown
60	I1102914B	480-70073-c-4-a	10/29/14 06:50 PM Unknown
61	I1102914B	480-70073-c-5-a	10/29/14 06:52 PM Unknown
62	I1102914B	480-70073-a-6-a	10/29/14 06:55 PM Unknown
63	I1102914B	CCV-2388838	10/29/14 06:58 PM QC
64	I1102914B	CCB-2388837	10/29/14 07:01 PM QC
65	I1102914B	CCVL-2388843	10/29/14 07:04 PM QC
66	I1102914B	480-70073-c-7-a	10/29/14 07:07 PM Unknown
67	I1102914B	480-70077-b-2-a	10/29/14 07:09 PM Unknown
68	I1102914B	480-70077-b-3-a	10/29/14 07:12 PM Unknown
69	I1102914B	480-70077-b-4-a	10/29/14 07:15 PM Unknown
70	I1102914B	480-70077-b-4-aSD@5	10/29/14 07:18 PM Unknown
71	I1102914B	480-70077-b-4-a PDS	10/29/14 07:21 PM Unknown
72	I1102914B	480-70077-b-4-b ms	10/29/14 07:24 PM Unknown
73	I1102914B	480-70077-b-4-c msd	10/29/14 07:27 PM Unknown
74	I1102914B	480-70077-b-5-a	10/29/14 07:30 PM Unknown
75	I1102914B	CCV-2388838	10/29/14 07:32 PM QC
76	I1102914B	CCB-2388837	10/29/14 07:35 PM QC
77	I1102914B	CCVL-2388843	10/29/14 07:38 PM QC
78	I1102914B	480-70077-b-6-a	10/29/14 07:41 PM Unknown
79	I1102914B	480-70077-b-7-a	10/29/14 07:44 PM Unknown
80	I1102914B	480-70077-b-8-a	10/29/14 07:47 PM Unknown
81	I1102914B	BLANK	10/29/14 07:50 PM Unknown
82	I1102914B	mb 480-210263/1-a	10/29/14 07:53 PM Unknown
83	I1102914B	lcs 480-210263/2-a	10/29/14 07:55 PM Unknown
84	I1102914B	480-70009-b-1-a	10/29/14 07:58 PM Unknown
85	I1102914B	480-70009-b-1-aSD@5	10/29/14 08:01 PM Unknown
86	I1102914B	480-70009-b-1-aPDS	10/29/14 08:04 PM Unknown
87	I1102914B	CCV-2388838	10/29/14 08:07 PM QC
88	I1102914B	CCB-2388837	10/29/14 08:10 PM QC
89	I1102914B	CCVL-2388843	10/29/14 08:13 PM QC
90	I1102914B	480-70009-b-1-b ms	10/29/14 08:15 PM Unknown

91	I1102914B	480-70009-b-1-c msd	10/29/14 08:18 PM Unknown
92	I1102914B	480-70009-b-2-a	10/29/14 08:21 PM Unknown
93	I1102914B	480-70009-b-3-a	10/29/14 08:24 PM Unknown
94	I1102914B	480-70009-b-4-a	10/29/14 08:27 PM Unknown
95	I1102914B	480-70009-b-5-a	10/29/14 08:30 PM Unknown
96	I1102914B	480-70009-b-6-a	10/29/14 08:32 PM Unknown
97	I1102914B	480-70045-b-2-a	10/29/14 08:35 PM Unknown
98	I1102914B	480-70045-b-3-a	10/29/14 08:38 PM Unknown
99	I1102914B	CCV-2388838	10/29/14 08:41 PM QC
100	I1102914B	CCB-2388837	10/29/14 08:44 PM QC
101	I1102914B	CCVL-2388843	10/29/14 08:47 PM QC
102	I1102914B	480-70045-b-4-a	10/29/14 08:49 PM Unknown
103	I1102914B	480-70045-b-5-a	10/29/14 08:52 PM Unknown
104	I1102914B	480-70045-b-6-a	10/29/14 08:55 PM Unknown
105	I1102914B	480-70045-b-7-a	10/29/14 08:58 PM Unknown
106	I1102914B	480-70138-b-1-a	10/29/14 09:01 PM Unknown
107	I1102914B	480-70138-b-2-a	10/29/14 09:04 PM Unknown
108	I1102914B	480-70057-b-2-d	10/29/14 09:07 PM Unknown
109	I1102914B	480-70057-b-3-b	10/29/14 09:10 PM Unknown
110	I1102914B	480-70057-b-4-b	10/29/14 09:13 PM Unknown
111	I1102914B	CCV-2388838	10/29/14 09:15 PM QC
112	I1102914B	CCB-2388837	10/29/14 09:18 PM QC
113	I1102914B	CCVL-2388843	10/29/14 09:21 PM QC
114	I1102914B	480-70057-b-5-b	10/29/14 09:24 PM Unknown
115	I1102914B	480-70057-b-6-b	10/29/14 09:27 PM Unknown
116	I1102914B	480-70057-b-7-b	10/29/14 09:30 PM Unknown
117	I1102914B	BLANK	10/29/14 09:33 PM Unknown
118	I1102914B	mb 480-210265/1-a	10/29/14 09:36 PM Unknown
119	I1102914B	lcs 480-210265/2-a	10/29/14 09:39 PM Unknown
120	I1102914B	480-70034-c-1-d	10/29/14 09:42 PM Unknown
121	I1102914B	480-70034-c-2-b	10/29/14 09:44 PM Unknown
122	I1102914B	480-70034-c-2-bSD@5	10/29/14 09:47 PM Unknown
123	I1102914B	CCV-2388838	10/29/14 09:50 PM QC
124	I1102914B	CCB-2388837	10/29/14 09:53 PM QC
125	I1102914B	CCVL-2388843	10/29/14 09:56 PM QC
126	I1102914B	480-70034-c-2-bPDS	10/29/14 09:58 PM Unknown
127	I1102914B	480-70034-c-2-c ms	10/29/14 10:01 PM Unknown
128	I1102914B	480-70034-c-2-d msd	10/29/14 10:04 PM Unknown
129	I1102914B	480-70034-c-3-b	10/29/14 10:07 PM Unknown
130	I1102914B	480-70034-c-4-b	10/29/14 10:09 PM Unknown
131	I1102914B	480-70034-c-5-b	10/29/14 10:12 PM Unknown
132	I1102914B	480-70035-f-1-b	10/29/14 10:15 PM Unknown
133	I1102914B	480-70035-f-2-b	10/29/14 10:18 PM Unknown
134	I1102914B	480-70035-f-3-b	10/29/14 10:21 PM Unknown
135	I1102914B	CCV-2388838	10/29/14 10:24 PM QC
136	I1102914B	CCB-2388837	10/29/14 10:27 PM QC
137	I1102914B	CCVL-2388843	10/29/14 10:29 PM QC
138	I1102914B	480-70035-f-4-b	10/29/14 10:32 PM Unknown
139	I1102914B	480-70035-f-5-b	10/29/14 10:35 PM Unknown
140	I1102914B	480-70035-f-6-b	10/29/14 10:38 PM Unknown

141	I1102914B	480-70035-f-7-b	10/29/14 10:41 PM Unknown
142	I1102914B	480-70035-f-8-b	10/29/14 10:44 PM Unknown
143	I1102914B	480-70052-d-1-b	10/29/14 10:47 PM Unknown
144	I1102914B	480-70053-b-1-b	10/29/14 10:49 PM Unknown
145	I1102914B	480-70053-b-2-b	10/29/14 10:52 PM Unknown
146	I1102914B	480-70075-f-1-b	10/29/14 10:55 PM Unknown
147	I1102914B	CCV-2388838	10/29/14 10:58 PM QC
148	I1102914B	CCB-2388837	10/29/14 11:01 PM QC
149	I1102914B	CCVL-2388843	10/29/14 11:04 PM QC
150	I1102914B	480-70075-f-2-b	10/29/14 11:06 PM Unknown
151	I1102914B	480-70075-f-3-b	10/29/14 11:09 PM Unknown
152	I1102914B	480-70075-f-4-b	10/29/14 11:12 PM Unknown
153	I1102914B	BLANK	10/29/14 11:15 PM Unknown
154	I1102914B	mb 480-210268/1-a	10/29/14 11:18 PM Unknown
155	I1102914B	lcs 480-210268/2-a	10/29/14 11:21 PM Unknown
156	I1102914B	480-69673-e-1-b	10/29/14 11:24 PM Unknown
157	I1102914B	480-69673-e-1-bPDS	10/29/14 11:27 PM Unknown
158	I1102914B	480-69673-e-1-bSD@5	10/29/14 11:29 PM Unknown
159	I1102914B	CCV-2388838	10/29/14 11:32 PM QC
160	I1102914B	CCB-2388837	10/29/14 11:35 PM QC
161	I1102914B	CCVL-2388843	10/29/14 11:38 PM QC
162	I1102914B	480-69673-e-1-c ms	10/29/14 11:41 PM Unknown
163	I1102914B	480-69673-e-1-d msd	10/29/14 11:44 PM Unknown
164	I1102914B	BLANK	10/29/14 11:46 PM Unknown
165	I1102914B	mb 480-210294/1-a	10/29/14 11:49 PM Unknown
166	I1102914B	lcs 480-210294/2-a	10/29/14 11:52 PM Unknown
167	I1102914B	480-69854-h-1-a	10/29/14 11:55 PM Unknown
168	I1102914B	480-70047-a-1-a	10/29/14 11:58 PM Unknown
169	I1102914B	480-70047-a-1-aPDS	10/30/14 12:00 AM Unknown
170	I1102914B	480-70047-a-1-aSD@5	10/30/14 12:03 AM Unknown
171	I1102914B	CCV-2388838	10/30/14 12:06 AM QC
172	I1102914B	CCB-2388837	10/30/14 12:09 AM QC
173	I1102914B	CCVL-2388843	10/30/14 12:12 AM QC
174	I1102914B	480-70047-a-1-b ms	10/30/14 12:14 AM Unknown
175	I1102914B	480-70047-a-1-c msd	10/30/14 12:17 AM Unknown
176	I1102914B	480-70047-d-2-a	10/30/14 12:20 AM Unknown
177	I1102914B	BLANK	10/30/14 12:23 AM Unknown
178	I1102914B	mb 480-210433/1-a	10/30/14 12:26 AM Unknown
179	I1102914B	lcs 480-210433/2-a	10/30/14 12:28 AM Unknown
180	I1102914B	480-70146-d-1-a	10/30/14 12:31 AM Unknown
181	I1102914B	480-70146-d-1-aPDS	10/30/14 12:34 AM Unknown
182	I1102914B	480-70146-d-1-aSD@5	10/30/14 12:37 AM Unknown
183	I1102914B	CCV-2388838	10/30/14 12:40 AM QC
184	I1102914B	CCB-2388837	10/30/14 12:42 AM QC
185	I1102914B	CCVL-2388843	10/30/14 12:45 AM QC
186	I1102914B	480-70146-d-1-b ms	10/30/14 12:48 AM Unknown
187	I1102914B	480-70146-d-1-c msd	10/30/14 12:51 AM Unknown
188	I1102914B	480-70149-c-1-b	10/30/14 12:53 AM Unknown
189	I1102914B	480-70153-f-1-a	10/30/14 12:57 AM Unknown
190	I1102914B	480-70153-f-2-a	10/30/14 12:59 AM Unknown

191	I1102914B	480-70154-a-2-a	10/30/14 01:02 AM Unknown
192	I1102914B	480-70154-a-3-a	10/30/14 01:05 AM Unknown
193	I1102914B	480-70154-a-4-a	10/30/14 01:08 AM Unknown
194	I1102914B	480-70154-a-5-a	10/30/14 01:10 AM Unknown
195	I1102914B	CCV-2388838	10/30/14 01:13 AM QC
196	I1102914B	CCB-2388837	10/30/14 01:16 AM QC
197	I1102914B	CCVL-2388843	10/30/14 01:19 AM QC
198	I1102914B	480-70154-a-6-a	10/30/14 01:22 AM Unknown
199	I1102914B	480-70154-a-7-a	10/30/14 01:25 AM Unknown
200	I1102914B	480-70154-a-8-a	10/30/14 01:27 AM Unknown
201	I1102914B	480-70156-c-8-a	10/30/14 01:30 AM Unknown
202	I1102914B	480-70157-h-1-a	10/30/14 01:33 AM Unknown
203	I1102914B	480-70158-a-1-a	10/30/14 01:36 AM Unknown
204	I1102914B	480-70166-a-1-a	10/30/14 01:39 AM Unknown
205	I1102914B	480-70167-a-1-a	10/30/14 01:42 AM Unknown
206	I1102914B	480-70171-k-1-a	10/30/14 01:45 AM Unknown
207	I1102914B	CCV-2388838	10/30/14 01:47 AM QC
208	I1102914B	CCB-2388837	10/30/14 01:50 AM QC
209	I1102914B	CCVL-2388843	10/30/14 01:53 AM QC
210	I1102914B	480-70165-a-1-a	10/30/14 01:56 AM Unknown
211	I1102914B	480-70165-a-1-a@5	10/30/14 01:59 AM Unknown
212	I1102914B	BLANK	10/30/14 02:02 AM Unknown
213	I1102914B	mb 480-210420/1-a	10/30/14 02:05 AM Unknown
214	I1102914B	lcs 480-210420/2-a	10/30/14 02:08 AM Unknown
215	I1102914B	480-70154-b-1-a	10/30/14 02:10 AM Unknown
216	I1102914B	480-70154-b-1-aSD@5	10/30/14 02:13 AM Unknown
217	I1102914B	480-70154-b-1-a PDS	10/30/14 02:16 AM Unknown
218	I1102914B	480-70154-b-1-b ms	10/30/14 02:19 AM Unknown
219	I1102914B	CCV-2388838	10/30/14 02:22 AM QC
220	I1102914B	CCB-2388837	10/30/14 02:24 AM QC
221	I1102914B	CCVL-2388843	10/30/14 02:27 AM QC
222	I1102914B	480-70154-b-1-c msd	10/30/14 02:30 AM Unknown
223	I1102914B	480-70154-b-2-a	10/30/14 02:33 AM Unknown
224	I1102914B	480-70154-b-3-a	10/30/14 02:36 AM Unknown
225	I1102914B	480-70154-b-4-a	10/30/14 02:38 AM Unknown
226	I1102914B	480-70154-b-5-a	10/30/14 02:41 AM Unknown
227	I1102914B	480-70154-b-6-a	10/30/14 02:44 AM Unknown
228	I1102914B	480-70154-b-7-a	10/30/14 02:47 AM Unknown
229	I1102914B	480-70154-b-8-a	10/30/14 02:49 AM Unknown
230	I1102914B	480-70156-a-1-a	10/30/14 02:52 AM Unknown
231	I1102914B	CCV-2388838	10/30/14 02:55 AM QC
232	I1102914B	CCB-2388837	10/30/14 02:58 AM QC
233	I1102914B	CCVL-2388843	10/30/14 03:01 AM QC
234	I1102914B	480-70156-a-2-a	10/30/14 03:04 AM Unknown
235	I1102914B	480-70156-a-3-a	10/30/14 03:07 AM Unknown
236	I1102914B	480-70156-a-4-a	10/30/14 03:09 AM Unknown
237	I1102914B	480-70156-a-5-a	10/30/14 03:12 AM Unknown
238	I1102914B	480-70156-a-6-a	10/30/14 03:15 AM Unknown
239	I1102914B	480-70156-a-7-a	10/30/14 03:18 AM Unknown
240	I1102914B	480-70156-b-9-a	10/30/14 03:20 AM Unknown

241	I1102914B	480-70156-b-10-a	10/30/14 03:23 AM Unknown
242	I1102914B	480-70156-b-11-a	10/30/14 03:26 AM Unknown
243	I1102914B	CCV-2388838	10/30/14 03:29 AM QC
244	I1102914B	CCB-2388837	10/30/14 03:32 AM QC
245	I1102914B	CCVL-2388843	10/30/14 03:34 AM QC
246	I1102914B	480-70156-b-12-a	10/30/14 03:37 AM Unknown
247	I1102914B	480-70169-b-1-a	10/30/14 03:40 AM Unknown
248	I1102914B	BLANK	10/30/14 03:43 AM Unknown
249	I1102914B	mb 480-210509/1-a	10/30/14 03:46 AM Unknown
250	I1102914B	lcssrm 480-210509/2-	10/30/14 03:49 AM Unknown
251	I1102914B	lcdsrm 480-210509/3-	10/30/14 03:51 AM Unknown
252	I1102914B	480-70110-b-1-b	10/30/14 03:54 AM Unknown
253	I1102914B	480-69918-d-1-e	10/30/14 03:57 AM Unknown
254	I1102914B	480-70054-a-2-a	10/30/14 04:00 AM Unknown
255	I1102914B	CCV-2388838	10/30/14 04:03 AM QC
256	I1102914B	CCB-2388837	10/30/14 04:05 AM QC
257	I1102914B	CCVL-2388843	10/30/14 04:08 AM QC
258	I1102914B	480-70101-b-1-c	10/30/14 04:11 AM Unknown
259	I1102914B	480-70101-b-2-c	10/30/14 04:14 AM Unknown
260	I1102914B	480-70091-a-1-a	10/30/14 04:17 AM Unknown
261	I1102914B	70151-a-1-a@5	10/30/14 04:20 AM Unknown
262	I1102914B	70151-a-1-aSD@25	10/30/14 04:23 AM Unknown
263	I1102914B	70151-a-1-aPDS@5	10/30/14 04:25 AM Unknown
264	I1102914B	70151-a-1-b ms@5	10/30/14 04:28 AM Unknown
265	I1102914B	70151-a-1-c msd@5	10/30/14 04:31 AM Unknown
266	I1102914B	480-70151-a-2-a@5	10/30/14 04:34 AM Unknown
267	I1102914B	CCV-2388838	10/30/14 04:37 AM QC
268	I1102914B	CCB-2388837	10/30/14 04:39 AM QC
269	I1102914B	CCVL-2388843	10/30/14 04:42 AM QC
270	I1102914B	480-70151-a-3-a@5	10/30/14 04:45 AM Unknown
271	I1102914B	480-70151-a-4-a@5	10/30/14 04:48 AM Unknown
272	I1102914B	480-70105-e-6-a	10/30/14 04:51 AM Unknown
273	I1102914B	480-70105-e-6-b ms	10/30/14 04:54 AM Unknown
274	I1102914B	BLANK	10/30/14 04:57 AM Unknown
275	I1102914B	icsa-2359635	10/30/14 04:59 AM QC
276	I1102914B	icsab-2261635	10/30/14 05:02 AM QC
277	I1102914B	BLANK	10/30/14 05:05 AM Unknown
278	I1102914B	ccvl-2388843	10/30/14 05:08 AM QC
279	I1102914B	CCV-2388838	10/30/14 05:11 AM QC
280	I1102914B	CCB-2388837	10/30/14 05:14 AM QC
281	I1102914B	CCV-2388838	10/30/14 05:17 AM QC
282	I1102914B	CCB-2388837	10/30/14 05:19 AM QC

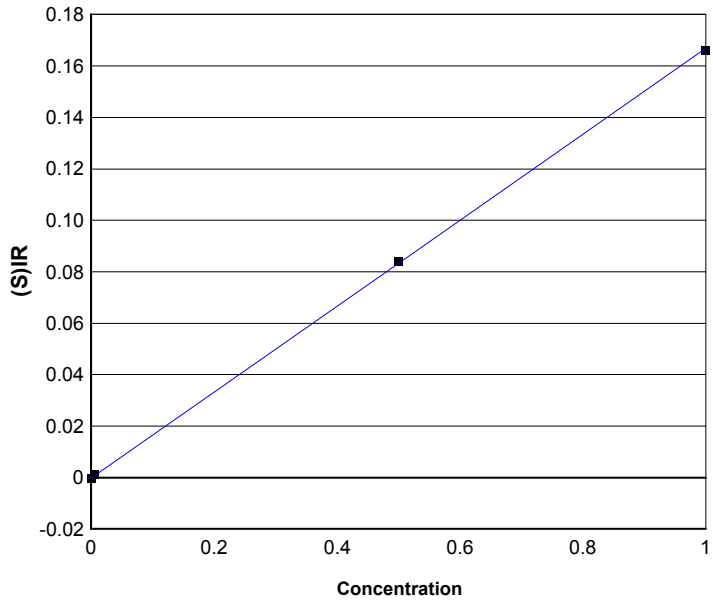
i1102914b

Author: jrk

Published: 10/30/2014 7:47:32AM

Instrument Name: iCAP1 Serial Number: 20094603

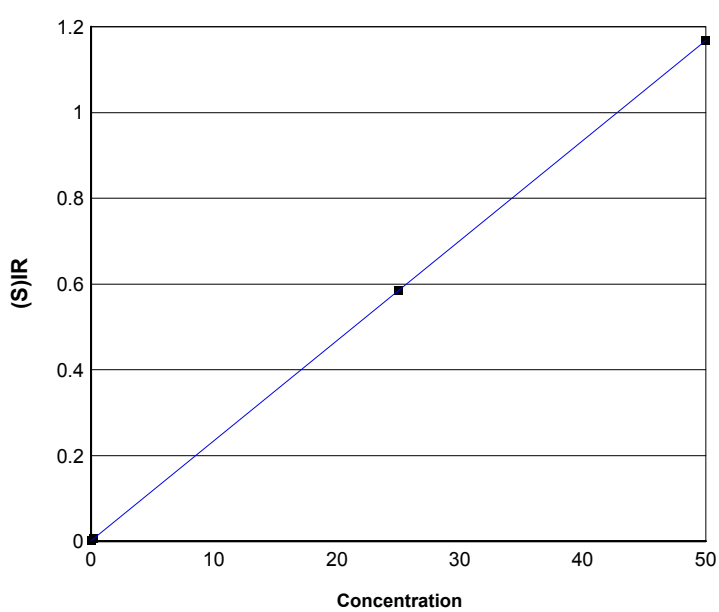
Method Name: ICAP 1 MARCH 2014 (153)



Element Name:	Ag
Element Wavelength:	Ag 328.068 nm
Concentration Units:	ppm
Date of Calibration:	10/29/2014 4:14:17PM
Date of Fit:	10/29/2014 4:14:17PM
Type of Fit:	Linear
Correlation:	0.99991
A0 (Offset):	-0.00021490
A1 (Gain):	0.16704
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

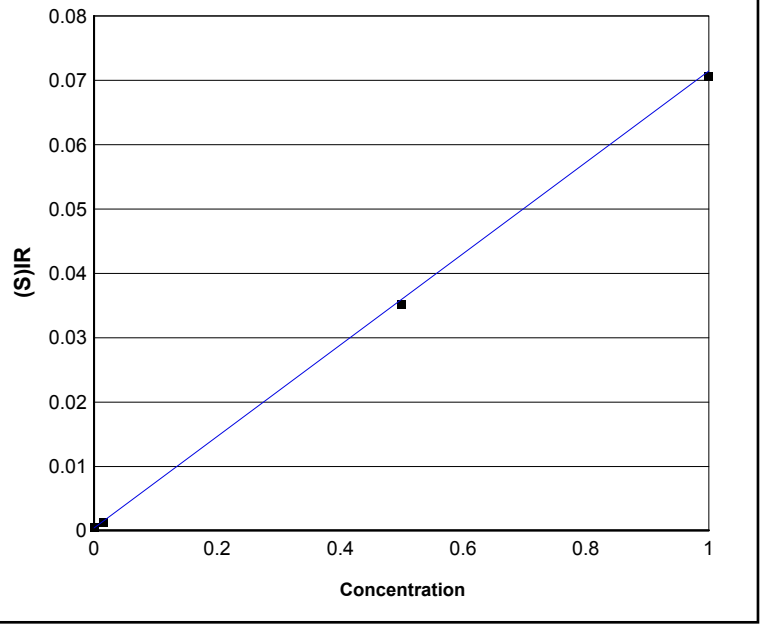
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
icis-2359629	0.00000	0.0000011465	-0.0000011465	0.00000	-0.00021509	0.000032530	1
ic-2359631	1.0000	0.99436	-0.0056402	-0.56402	0.16582	0.00066885	1
ic-2359630	0.0060000	0.0071262	0.0011262	18.770	0.00097548	0.000051442	1
ic-2359632	0.50000	0.50451	0.0045135	0.90270	0.084028	0.000026695	1



Element Name:	Al
Element Wavelength:	Al 308.215 nm
Concentration Units:	ppm
Date of Calibration:	10/29/2014 4:14:17PM
Date of Fit:	10/29/2014 4:14:17PM
Type of Fit:	Linear
Correlation:	1.00000
A0 (Offset):	0.0012250
A1 (Gain):	0.023345
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

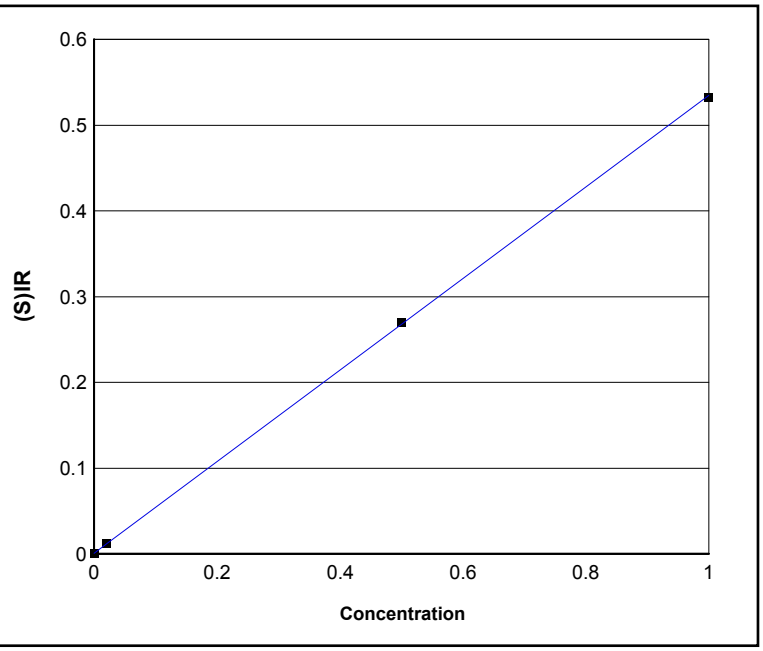
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
icis-2359629	0.00000	0.0000048280	0.0000048280	0.00000	0.0012251	0.00020534	1
ic-2359631	50.000	49.936	-0.063835	-0.12767	1.1670	0.021320	1
ic-2359630	0.20000	0.19488	-0.0051243	-2.5622	0.0057744	0.00013468	1
ic-2359632	25.000	25.069	0.068960	0.27584	0.58646	0.0042749	1



Element Name:	As
Element Wavelength:	As 189.042 nm
Concentration Units:	ppm
Date of Calibration:	10/29/2014 4:14:17PM
Date of Fit:	10/29/2014 4:14:17PM
Type of Fit:	Linear
Correlation:	0.99988
A0 (Offset):	0.00040339
A1 (Gain):	0.071060
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

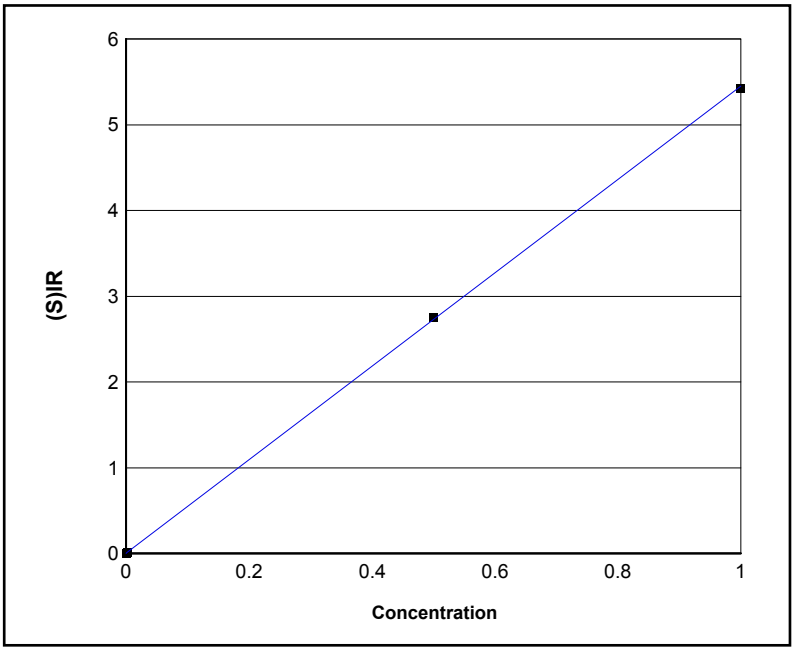
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
icis-2359629	0.00000	0.0000021664	0.0000021664	0.00000	0.00040354	0.00016076	1
ic-2359631	1.0000	1.0055	0.0054692	0.54692	0.070630	0.00036568	1
ic-2359630	0.015000	0.012850	-0.0021495	-14.330	0.0013093	0.000047463	1
ic-2359632	0.50000	0.49670	-0.0032969	-0.65938	0.035088	0.00020672	1



Element Name:	B
Element Wavelength:	B 208.959 nm
Concentration Units:	ppm
Date of Calibration:	10/29/2014 4:14:17PM
Date of Fit:	10/29/2014 4:14:17PM
Type of Fit:	Linear
Correlation:	0.99998
A0 (Offset):	0.00080819
A1 (Gain):	0.53416
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

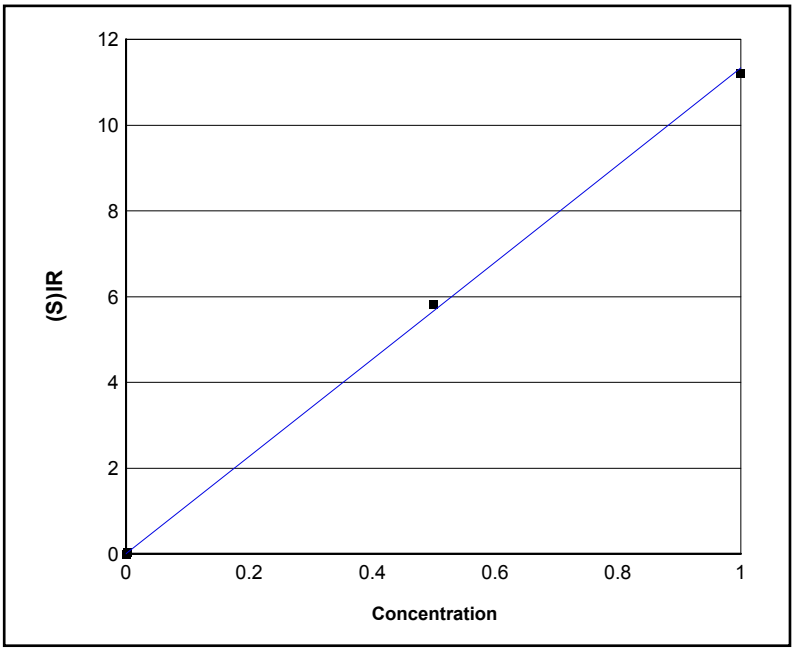
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
icis-2359629	0.00000	0.0000001407	-0.0000001407	0.00000	0.00080812	0.00018516	1
ic-2359631	1.0000	0.99592	-0.0040826	-0.40826	0.53279	0.0012751	1
ic-2359630	0.020000	0.020061	0.000061483	0.30741	0.011524	0.000055853	1
ic-2359632	0.50000	0.50402	0.0040211	0.80422	0.27004	0.0016900	1



Element Name:	Ba
Element Wavelength:	Ba 455.403 nm
Concentration Units:	ppm
Date of Calibration:	10/29/2014 4:14:17PM
Date of Fit:	10/29/2014 4:14:17PM
Type of Fit:	Linear
Correlation:	0.99998
A0 (Offset):	0.0012240
A1 (Gain):	5.4536
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

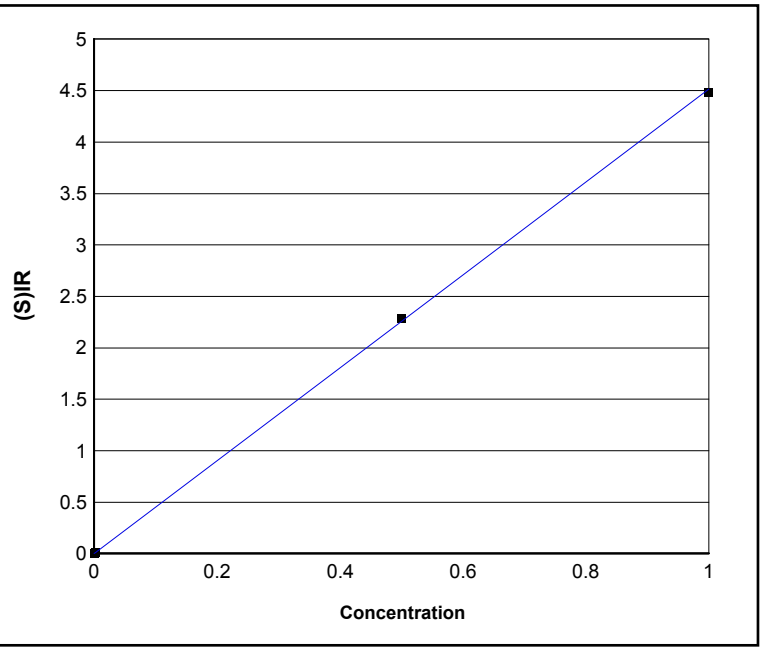
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
icis-2359629	0.00000	0.0000000369	-0.0000000369	0.00000	0.0012238	0.00013706	1
ic-2359631	1.0000	0.99499	-0.0050055	-0.50055	5.4276	0.10546	1
ic-2359630	0.0020000	0.0020270	0.000027001	1.3500	0.012279	0.00020103	1
ic-2359632	0.50000	0.50498	0.0049785	0.99570	2.7552	0.020229	1



Element Name:	Ba
Element Wavelength:	Ba 455.403 nm
Concentration Units:	ppm
Date of Calibration:	10/29/2014 4:14:17PM
Date of Fit:	10/29/2014 4:14:17PM
Type of Fit:	Linear
Correlation:	0.99985
A0 (Offset):	0.00085531
A1 (Gain):	11.343
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

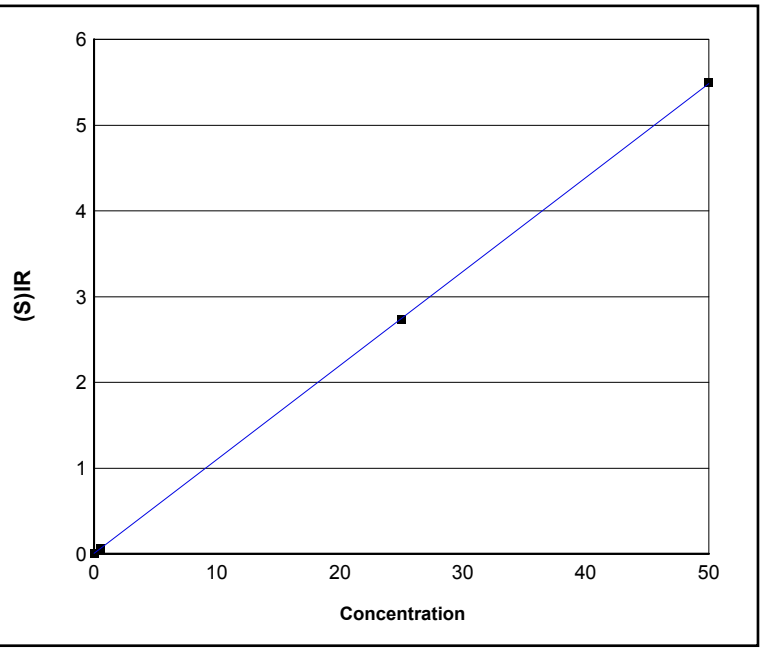
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
icis-2359629	0.00000	0.0000001477	-0.0000001477	0.00000	0.00085363	0.000010393	1
ic-2359631	1.0000	0.98792	-0.012085	-1.2085	11.206	0.026081	1
ic-2359630	0.0020000	0.0021240	0.00012404	6.2019	0.024947	0.00026324	1
ic-2359632	0.50000	0.51196	0.011961	2.3922	5.8078	0.00011890	1



Element Name:	Be
Element Wavelength:	Be 313.042 nm
Concentration Units:	ppm
Date of Calibration:	10/29/2014 4:14:17PM
Date of Fit:	10/29/2014 4:14:17PM
Type of Fit:	Linear
Correlation:	0.99996
A0 (Offset):	0.000051548
A1 (Gain):	4.5155
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

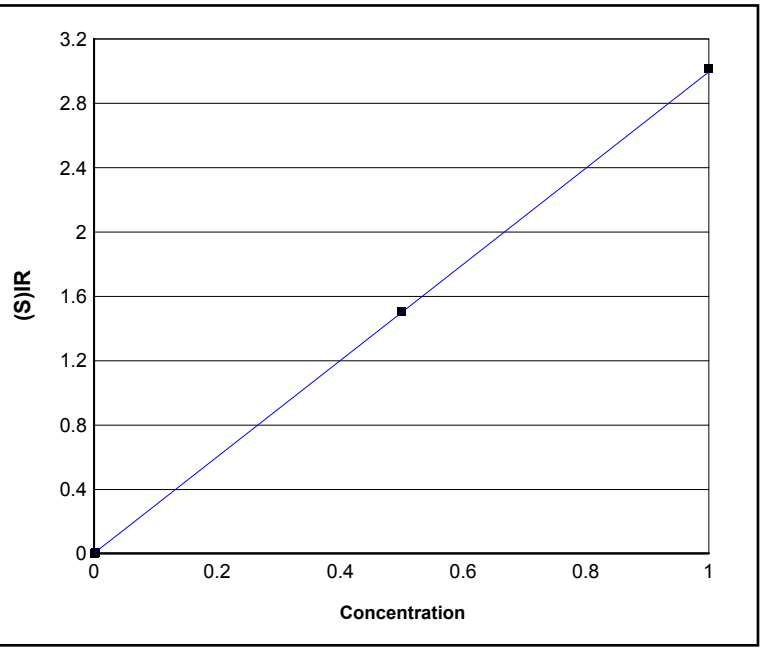
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
icis-2359629	0.00000	0.0000000214	-0.0000000214	0.00000	0.000051451	0.000084792	1
ic-2359631	1.0000	0.99357	-0.0064251	-0.64251	4.4829	0.090442	1
ic-2359630	0.0020000	0.0020086	0.0000086330	0.43165	0.0091034	0.000020610	1
ic-2359632	0.50000	0.50642	0.0064165	1.2833	2.2850	0.013464	1



Element Name:	Ca
Element Wavelength:	Ca 317.933 nm
Concentration Units:	ppm
Date of Calibration:	10/29/2014 4:14:17PM
Date of Fit:	10/29/2014 4:14:17PM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	0.0072806
A1 (Gain):	0.10955
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

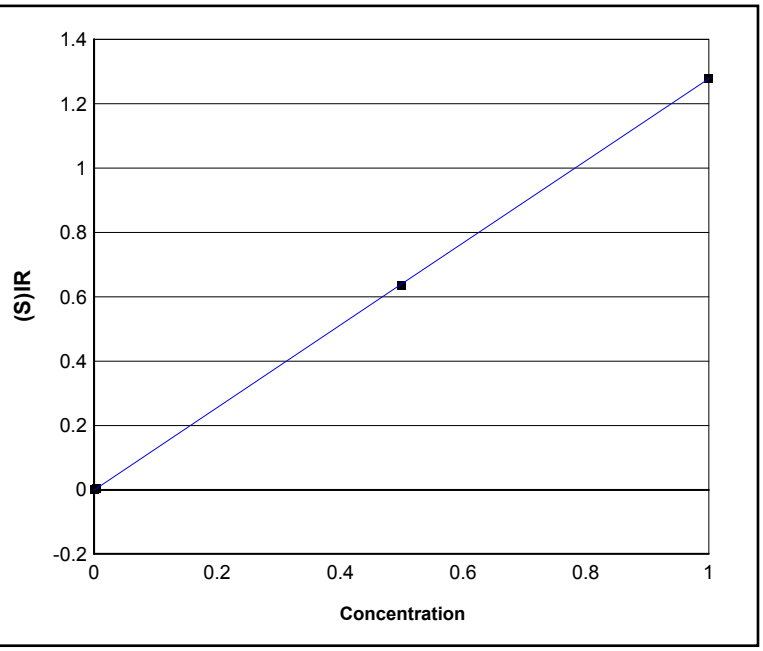
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
icis-2359629	0.00000	0.000020349	0.000020349	0.00000	0.0072828	0.0000002988	1
ic-2359631	50.000	50.085	0.085417	0.17083	5.4942	0.069720	1
ic-2359630	0.50000	0.48011	-0.019893	-3.9786	0.059877	0.00061357	1
ic-2359632	25.000	24.934	-0.065524	-0.26209	2.7389	0.0091790	1



Element Name:	Cd
Element Wavelength:	Cd 228.802 nm
Concentration Units:	ppm
Date of Calibration:	10/29/2014 4:14:17PM
Date of Fit:	10/29/2014 4:14:17PM
Type of Fit:	Linear
Correlation:	1.00000
A0 (Offset):	0.0026328
A1 (Gain):	2.9936
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

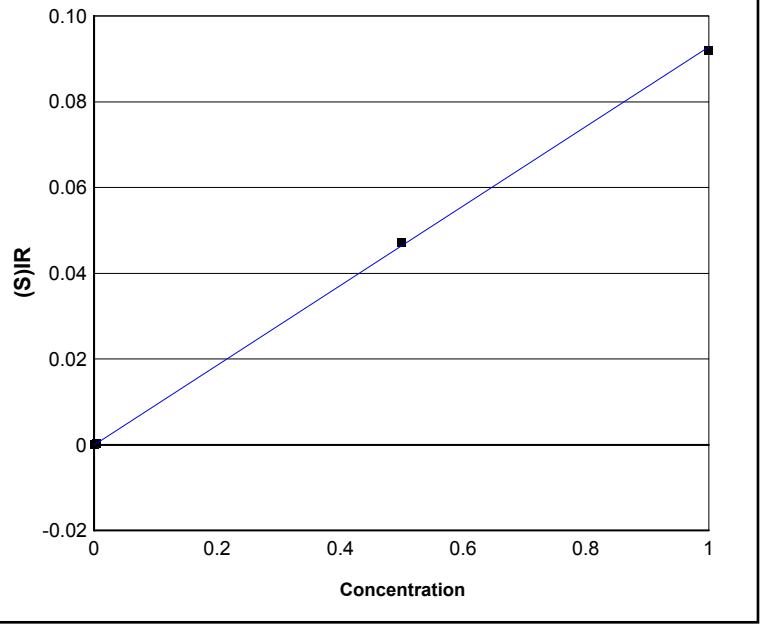
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
icis-2359629	0.00000	0.0000000114	0.0000000114	0.00000	0.0026328	0.00030424	1
ic-2359631	1.0000	1.0005	0.00048198	0.048198	3.0144	0.0032741	1
ic-2359630	0.0020000	0.0019895	-0.000010520	-0.52598	0.0088341	0.00018325	1
ic-2359632	0.50000	0.49953	-0.00047109	-0.094217	1.5064	0.0051023	1



Element Name:	Co
Element Wavelength:	Co 228.616 nm
Concentration Units:	ppm
Date of Calibration:	10/29/2014 4:14:17PM
Date of Fit:	10/29/2014 4:14:17PM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	-0.00065265
A1 (Gain):	1.2797
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

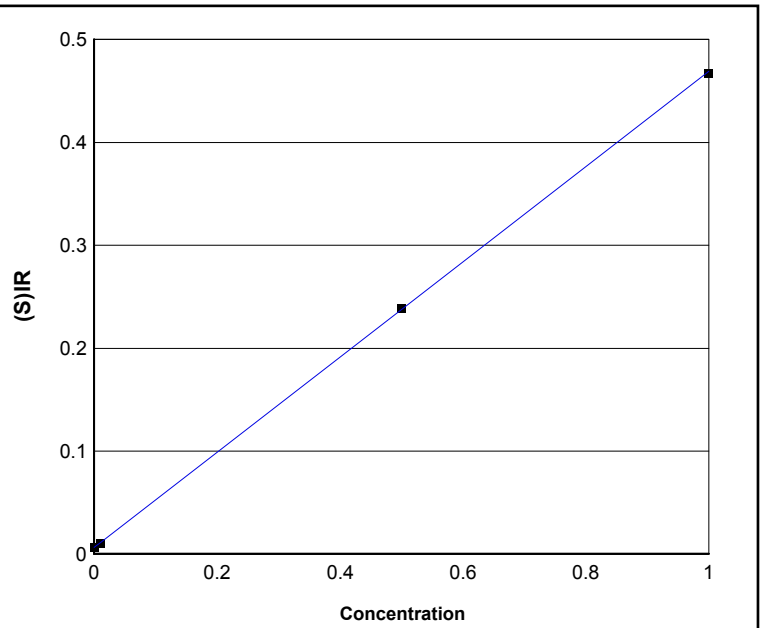
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
icis-2359629	0.00000	0.0000002320	0.0000002320	0.00000	-0.00065236	0.000054765	1
ic-2359631	1.0000	1.0029	0.0028931	0.28931	1.2800	0.0056060	1
ic-2359630	0.0040000	0.0037778	-0.00022217	-5.5542	0.0041539	0.00014872	1
ic-2359632	0.50000	0.49733	-0.0026717	-0.53434	0.63438	0.00090082	1



Element Name:	Cr
Element Wavelength:	Cr 267.716 nm
Concentration Units:	ppm
Date of Calibration:	10/29/2014 4:14:17PM
Date of Fit:	10/29/2014 4:14:17PM
Type of Fit:	Linear
Correlation:	0.99993
A0 (Offset):	-0.0000010395
A1 (Gain):	0.092864
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

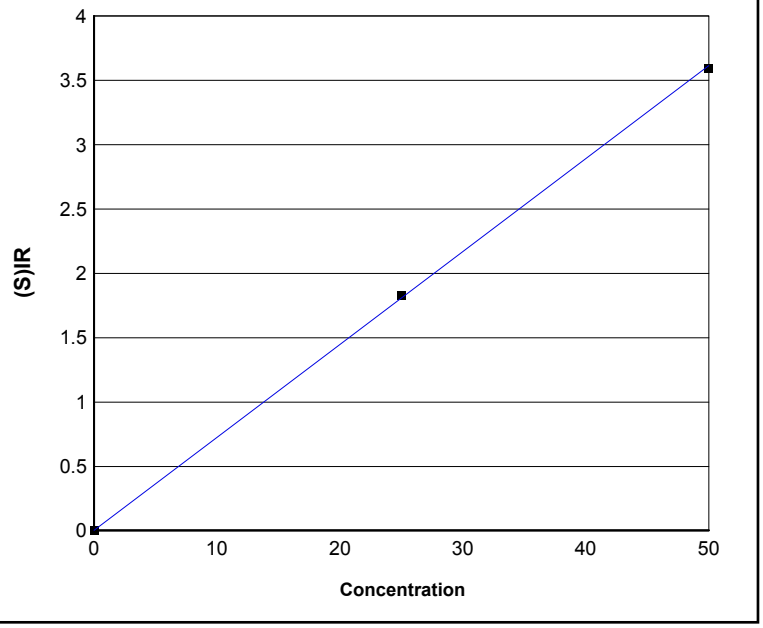
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
icis-2359629	0.00000	0.0000002728	-0.0000002728	0.00000	-0.0000010649	0.000013287	1
ic-2359631	1.0000	0.99190	-0.0081027	-0.81027	0.092050	0.00061743	1
ic-2359630	0.0040000	0.0042423	0.00024233	6.0583	0.00039286	0.0000027079	1
ic-2359632	0.50000	0.50786	0.0078603	1.5721	0.047131	0.000050490	1



Element Name:	Cu
Element Wavelength:	Cu 324.754 nm
Concentration Units:	ppm
Date of Calibration:	10/29/2014 4:14:17PM
Date of Fit:	10/29/2014 4:14:17PM
Type of Fit:	Linear
Correlation:	0.99997
A0 (Offset):	0.0062124
A1 (Gain):	0.46305
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

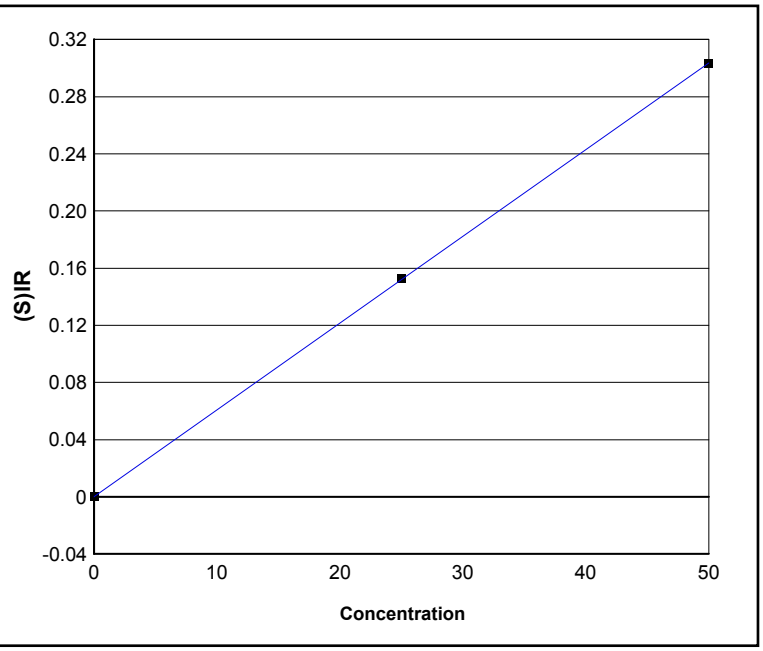
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
icis-2359629	0.00000	0.0000006480	0.0000006480	0.00000	0.0062127	0.000049746	1
ic-2359631	1.0000	0.99742	-0.0025764	-0.25764	0.46720	0.00030411	1
ic-2359630	0.010000	0.0093125	-0.00068754	-6.8754	0.010520	0.000020151	1
ic-2359632	0.50000	0.50326	0.0032646	0.65292	0.23881	0.0012035	1



Element Name:	Fe
Element Wavelength:	Fe 259.940 nm
Concentration Units:	ppm
Date of Calibration:	10/29/2014 4:14:17PM
Date of Fit:	10/29/2014 4:14:17PM
Type of Fit:	Linear
Correlation:	0.99997
A0 (Offset):	0.00019077
A1 (Gain):	0.072281
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

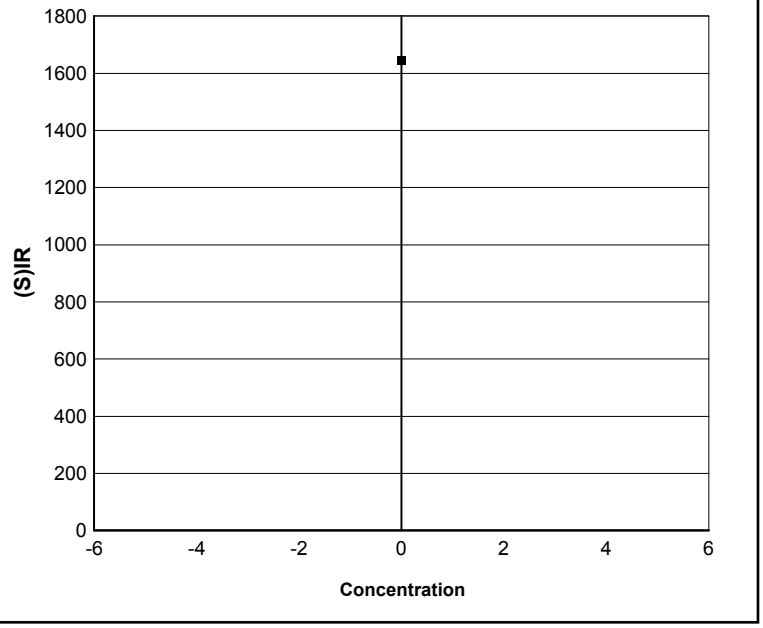
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
icis-2359629	0.00000	0.0000009728	0.0000009728	0.00000	0.00019084	0.000036923	1
ic-2359631	50.000	49.715	-0.28493	-0.56987	3.5936	0.060262	1
ic-2359630	0.050000	0.048740	-0.0012602	-2.5205	0.0037137	0.0000006384	1
ic-2359632	25.000	25.286	0.28619	1.1448	1.8279	0.0079810	1



Element Name:	Fe
Element Wavelength:	Fe 271.441 nm
Concentration Units:	ppm
Date of Calibration:	10/29/2014 4:14:17PM
Date of Fit:	10/29/2014 4:14:17PM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	-0.000026386
A1 (Gain):	0.0060745
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

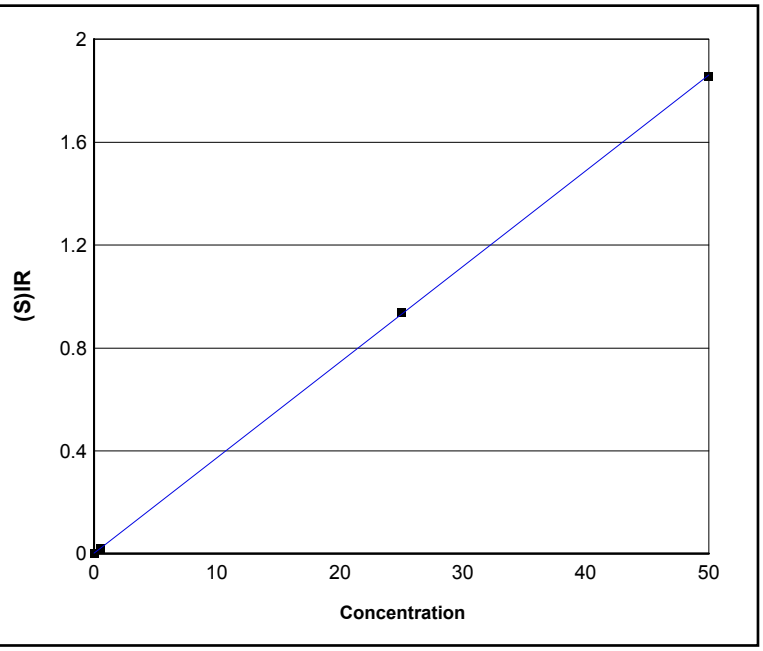
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
icis-2359629	0.00000	0.0000000842	0.0000000842	0.00000	-0.000026386	0.000070255	1
ic-2359631	50.000	49.886	-0.11377	-0.22755	0.30301	0.0055992	1
ic-2359630	0.050000	0.049802	-0.00019837	-0.39674	0.00027614	0.000064118	1
ic-2359632	25.000	25.114	0.11397	0.45589	0.15253	0.00092595	1



Element Name:	In
Element Wavelength:	In 230.606 nm
Concentration Units:	ppm
Date of Calibration:	10/29/2014 4:05:58PM
Date of Fit:	10/29/2014 4:05:58PM
Type of Fit:	Linear
Correlation:	0.0000
A0 (Offset):	0.0000
A1 (Gain):	0.0000
A2 (Curvature):	0.0000
n (Exponent):	1.000

Reslope		**QC Normalize**	
Slope:	1.000	**Slope factor:**	1.000
Y Int:	0.0000	**Offset:**	0.0000

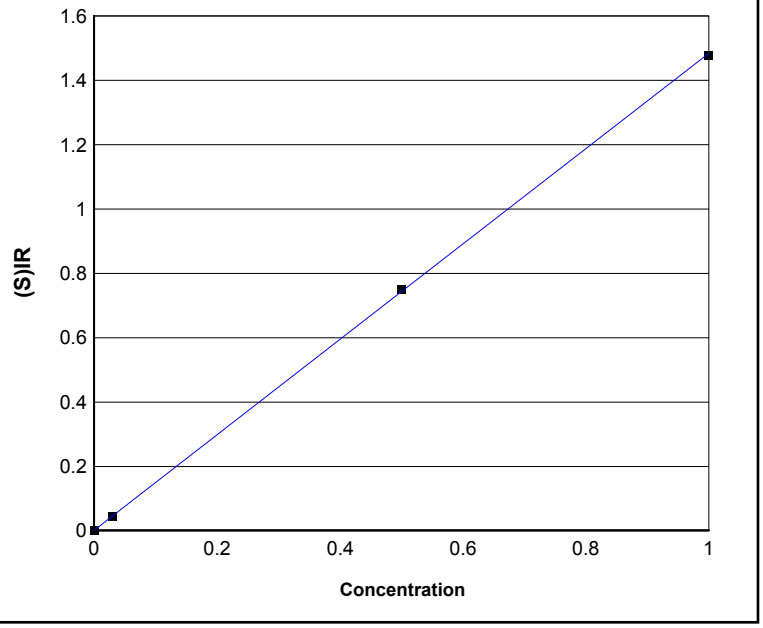
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
icis-2359629	0.0000			0.0000	1,646	3.305	1



Element Name:	K
Element Wavelength:	K 766.490 nm
Concentration Units:	ppm
Date of Calibration:	10/29/2014 4:14:17PM
Date of Fit:	10/29/2014 4:14:17PM
Type of Fit:	Linear
Correlation:	0.99997
A0 (Offset):	0.0020288
A1 (Gain):	0.037171
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

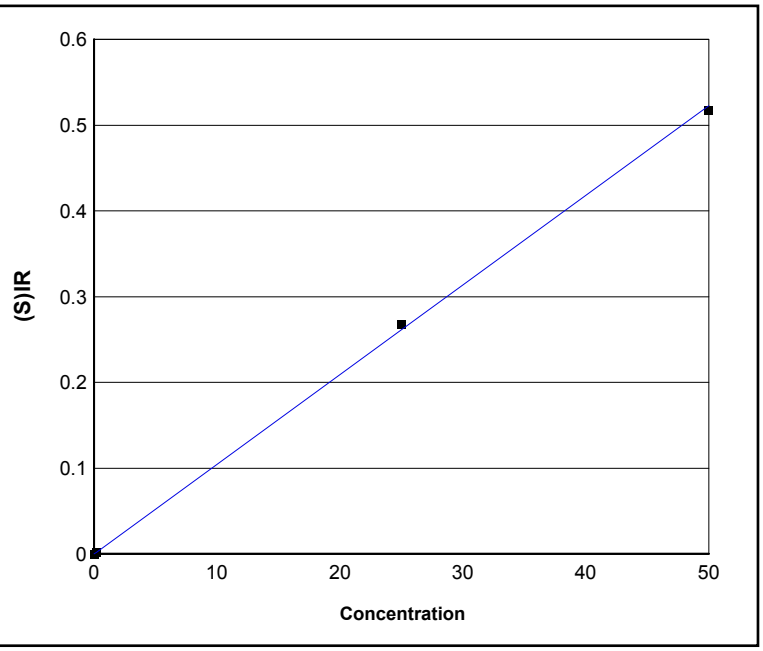
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
icis-2359629	0.00000	0.000033329	0.000033329	0.00000	0.0020300	0.00042457	1
ic-2359631	50.000	49.865	-0.13538	-0.27076	1.8555	0.034203	1
ic-2359630	0.50000	0.46461	-0.035390	-7.0781	0.019299	0.000072157	1
ic-2359632	25.000	25.171	0.17077	0.68308	0.93765	0.010307	1



Element Name:	Li
Element Wavelength:	Li 670.784 nm
Concentration Units:	ppm
Date of Calibration:	10/29/2014 4:14:17PM
Date of Fit:	10/29/2014 4:14:17PM
Type of Fit:	Linear
Correlation:	0.99997
A0 (Offset):	0.00093826
A1 (Gain):	1.4833
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

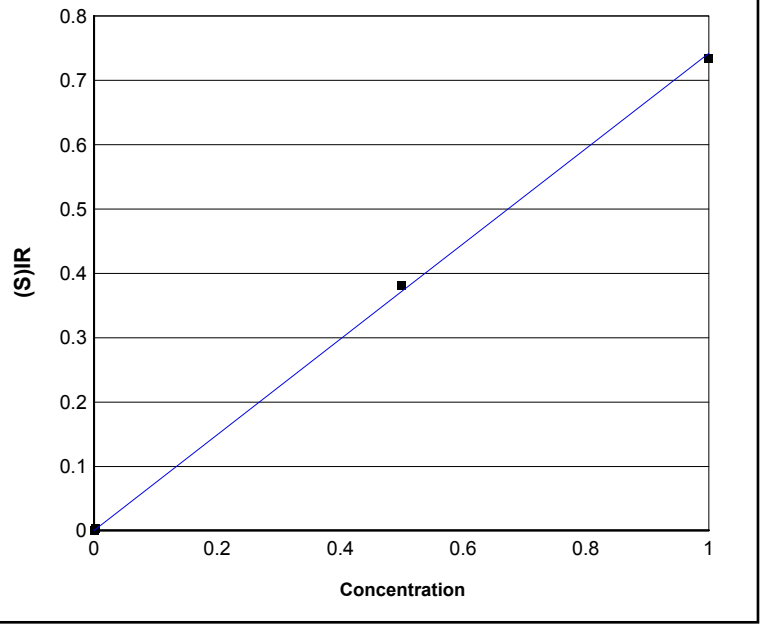
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
icis-2359629	0.00000	0.0000008074	0.0000008074	0.00000	0.00093945	0.00071067	1
ic-2359630	0.030000	0.029006	-0.00099365	-3.3122	0.043964	0.00066598	1
ic-2359632	0.50000	0.50521	0.0052148	1.0430	0.75034	0.0072370	1
ic-2359631	1.0000	0.99578	-0.0042211	-0.42211	1.4780	0.030896	1



Element Name:	Mg
Element Wavelength:	Mg 279.079 nm
Concentration Units:	ppm
Date of Calibration:	10/29/2014 4:14:17PM
Date of Fit:	10/29/2014 4:14:17PM
Type of Fit:	Linear
Correlation:	0.99987
A0 (Offset):	0.000010721
A1 (Gain):	0.010458
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

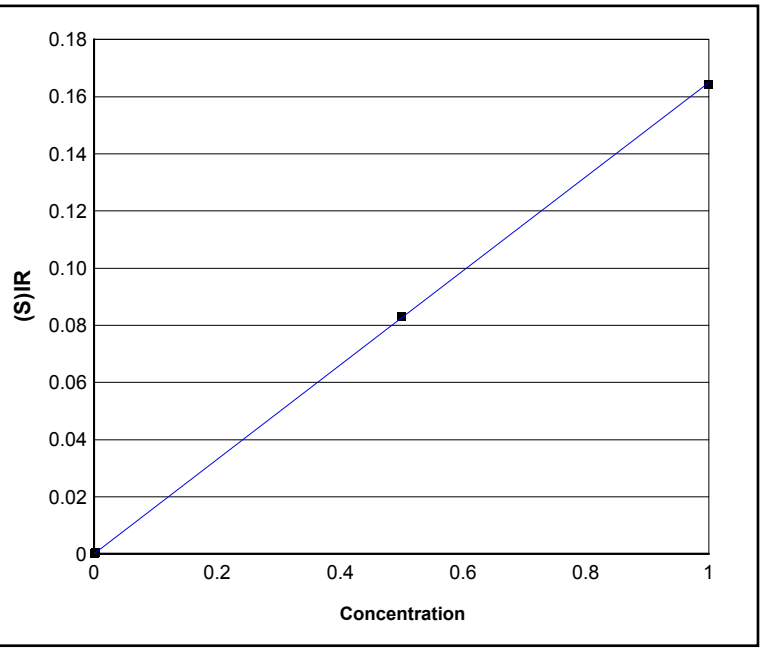
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
icis-2359629	0.00000	0.0000065007	-0.0000065007	0.00000	0.000010653	0.0000053632	1
ic-2359631	50.000	49.436	-0.56353	-1.1271	0.51693	0.00020603	1
ic-2359630	0.20000	0.20428	0.0042809	2.1404	0.0021468	0.000014535	1
ic-2359632	25.000	25.559	0.55925	2.2370	0.26727	0.000026754	1



Element Name:	Mn
Element Wavelength:	Mn 257.610 nm
Concentration Units:	ppm
Date of Calibration:	10/29/2014 4:14:17PM
Date of Fit:	10/29/2014 4:14:17PM
Type of Fit:	Linear
Correlation:	0.99984
A0 (Offset):	0.00047827
A1 (Gain):	0.74210
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

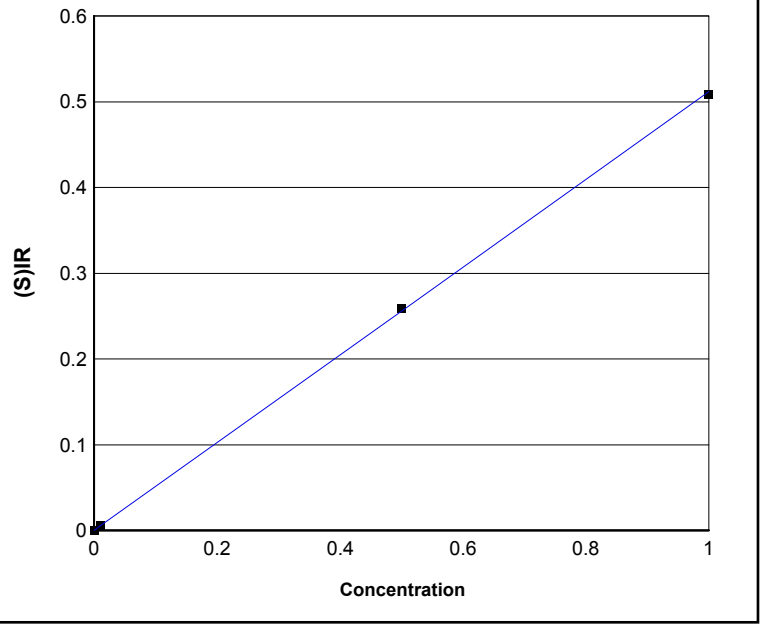
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
icis-2359629	0.00000	0.0000001650	0.0000001650	0.00000	0.00047839	0.000057350	1
ic-2359631	1.0000	0.98752	-0.012476	-1.2476	0.73332	0.0012598	1
ic-2359630	0.0030000	0.0027963	-0.00020368	-6.7894	0.0025534	0.000088253	1
ic-2359632	0.50000	0.51268	0.012679	2.5359	0.38094	0.0010372	1



Element Name:	Mn
Element Wavelength:	Mn 257.610 nm
Concentration Units:	ppm
Date of Calibration:	10/29/2014 4:14:17PM
Date of Fit:	10/29/2014 4:14:17PM
Type of Fit:	Linear
Correlation:	0.99998
A0 (Offset):	0.000067386
A1 (Gain):	0.16491
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

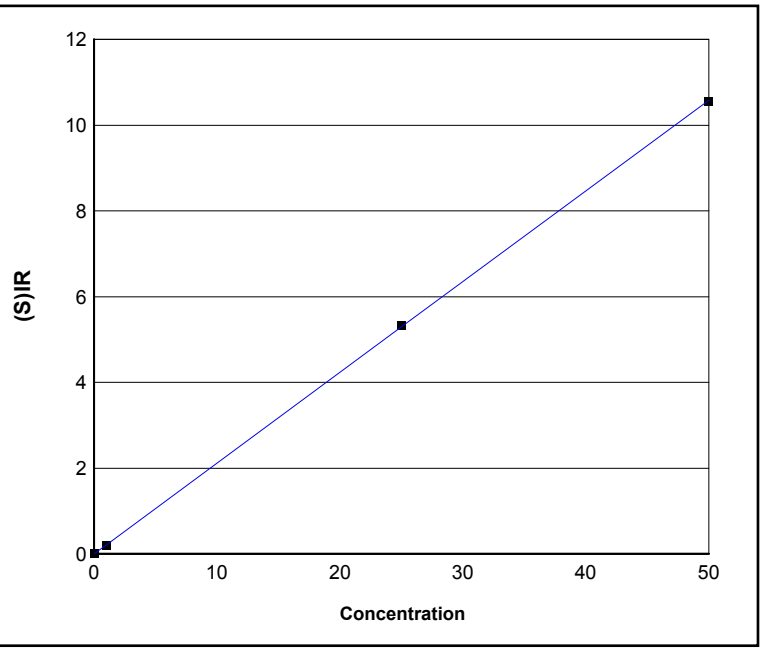
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
icis-2359629	0.00000	0.0000000676	0.0000000676	0.00000	0.000067397	0.0000087206	1
ic-2359631	1.0000	0.99584	-0.0041612	-0.41612	0.16429	0.00098478	1
ic-2359630	0.0030000	0.0029195	-0.000080548	-2.6849	0.00054882	0.000018927	1
ic-2359632	0.50000	0.50424	0.0042418	0.84835	0.083219	0.00033702	1



Element Name:	Mo
Element Wavelength:	Mo 202.030 nm
Concentration Units:	ppm
Date of Calibration:	10/29/2014 4:14:17PM
Date of Fit:	10/29/2014 4:14:17PM
Type of Fit:	Linear
Correlation:	0.99997
A0 (Offset):	0.00037791
A1 (Gain):	0.51133
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

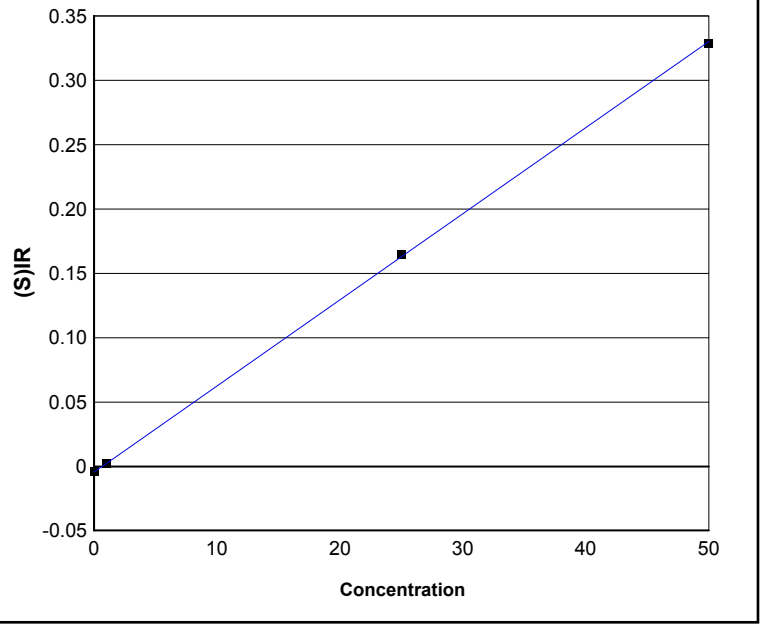
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
icis-2359629	0.00000	0.0000001247	-0.0000001247	0.00000	0.00037785	0.00012210	1
ic-2359631	1.0000	0.99476	-0.0052362	-0.52362	0.50903	0.00012823	1
ic-2359630	0.010000	0.010074	0.000073781	0.73781	0.0055289	0.00014397	1
ic-2359632	0.50000	0.50516	0.0051624	1.0325	0.25868	0.00044300	1



Element Name:	Na
Element Wavelength:	Na 589.592 nm
Concentration Units:	ppm
Date of Calibration:	10/29/2014 4:14:17PM
Date of Fit:	10/29/2014 4:14:17PM
Type of Fit:	Linear
Correlation:	0.99998
A0 (Offset):	0.0017600
A1 (Gain):	0.21169
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

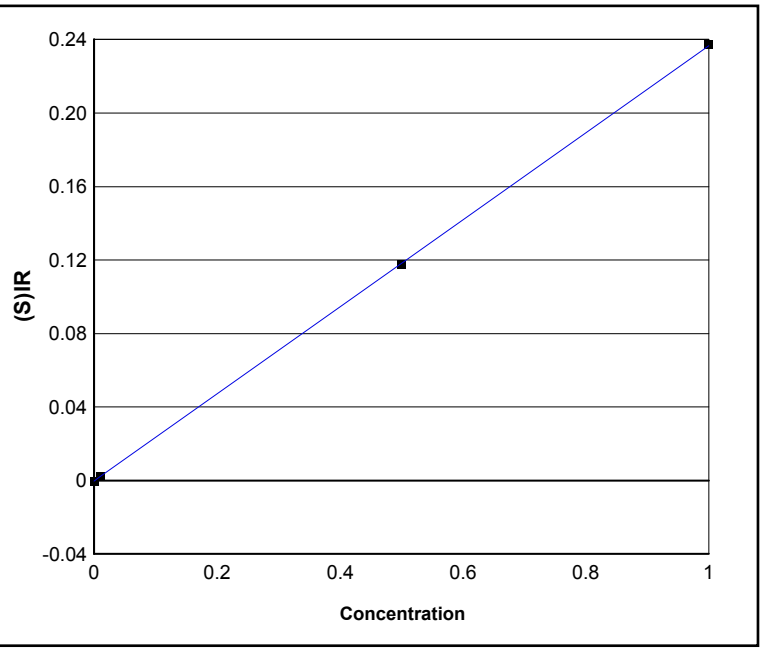
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
icis-2359629	0.00000	0.000031709	0.000031709	0.00000	0.0017667	0.0010306	1
ic-2359631	50.000	49.881	-0.11946	-0.23891	10.561	0.22583	1
ic-2359630	1.0000	0.96448	-0.035519	-3.5519	0.20593	0.0038706	1
ic-2359632	25.000	25.155	0.15497	0.61990	5.3268	0.047739	1



Element Name:	Na
Element Wavelength:	Na 818.326 nm
Concentration Units:	ppm
Date of Calibration:	10/29/2014 4:14:17PM
Date of Fit:	10/29/2014 4:14:17PM
Type of Fit:	Linear
Correlation:	0.99996
A0 (Offset):	-0.0044956
A1 (Gain):	0.0066970
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

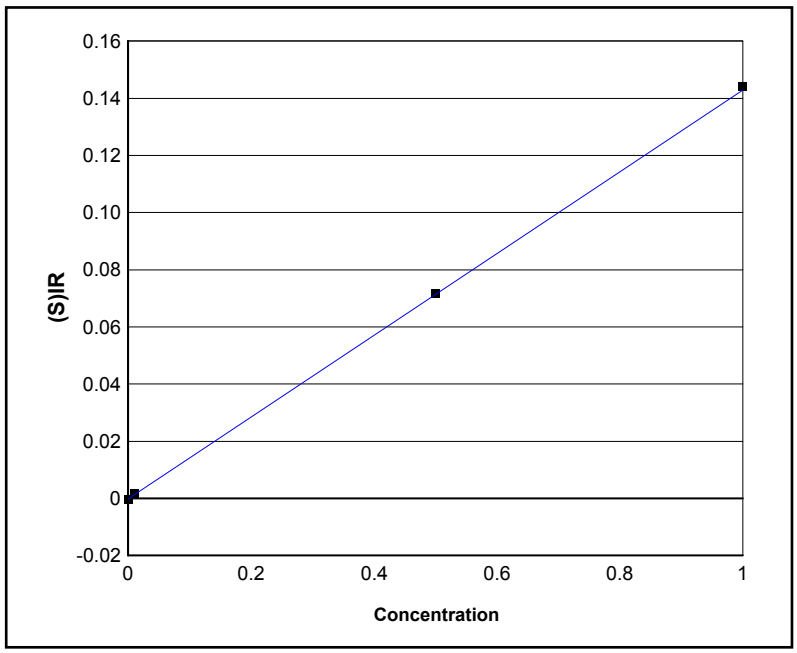
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
icis-2359629	0.00000	-0.000052116	-0.000052116	0.00000	-0.0044960	0.00046146	1
ic-2359631	50.000	49.708	-0.29219	-0.58439	0.32840	0.0060481	1
ic-2359630	1.0000	1.0482	0.048201	4.8201	0.0025242	0.00039927	1
ic-2359632	25.000	25.244	0.24399	0.97597	0.16456	0.00091088	1



Element Name:	Ni
Element Wavelength:	Ni 231.604 nm
Concentration Units:	ppm
Date of Calibration:	10/29/2014 4:14:17PM
Date of Fit:	10/29/2014 4:14:17PM
Type of Fit:	Linear
Correlation:	0.99998
A0 (Offset):	-0.00025895
A1 (Gain):	0.23693
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

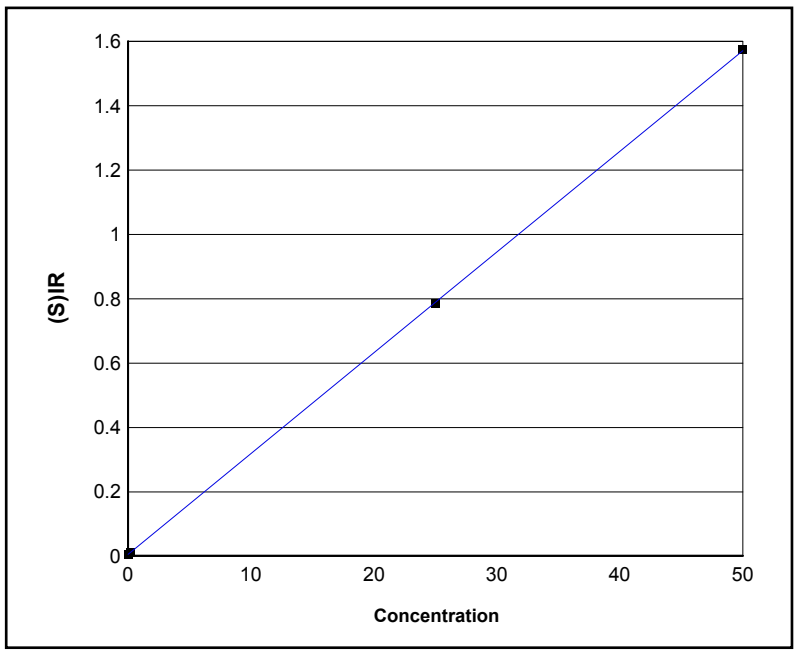
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
icis-2359629	0.00000	0.0000005938	0.0000005938	0.00000	-0.00025881	0.000027854	1
ic-2359631	1.0000	1.0030	0.0029615	0.29615	0.23738	0.00090241	1
ic-2359630	0.010000	0.0094243	-0.00057569	-5.7569	0.0019740	0.00024252	1
ic-2359632	0.50000	0.49761	-0.0023858	-0.47717	0.11764	0.00035737	1



Element Name:	Pb
Element Wavelength:	Pb 220.353 nm
Concentration Units:	ppm
Date of Calibration:	10/29/2014 4:14:17PM
Date of Fit:	10/29/2014 4:14:17PM
Type of Fit:	Linear
Correlation:	0.99971
A0 (Offset):	-0.00029369
A1 (Gain):	0.14319
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

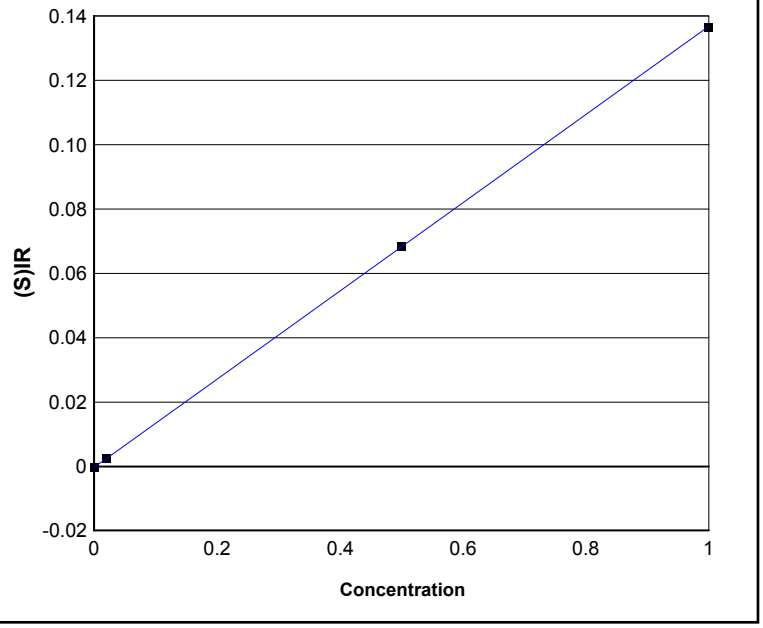
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
icis-2359629	0.00000	0.0000029160	-0.0000029160	0.00000	-0.00029411	0.00017123	1
ic-2359631	1.0000	0.99949	-0.00051446	-0.051446	0.14418	0.00048583	1
ic-2359630	0.010000	0.012970	0.0029702	29.702	0.0015749	0.00033532	1
ic-2359632	0.50000	0.49755	-0.0024513	-0.49025	0.071630	0.00013029	1



Element Name:	S
Element Wavelength:	S 182.034 nm
Concentration Units:	ppm
Date of Calibration:	10/29/2014 4:14:17PM
Date of Fit:	10/29/2014 4:14:17PM
Type of Fit:	Linear
Correlation:	1.0000
A0 (Offset):	0.005713
A1 (Gain):	0.03131
A2 (Curvature):	0.0000
n (Exponent):	1.000

Reslope		QC Normalize	
Slope:	1.000	**Slope factor:**	1.000
Y Int:	0.0000	**Offset:**	0.0000

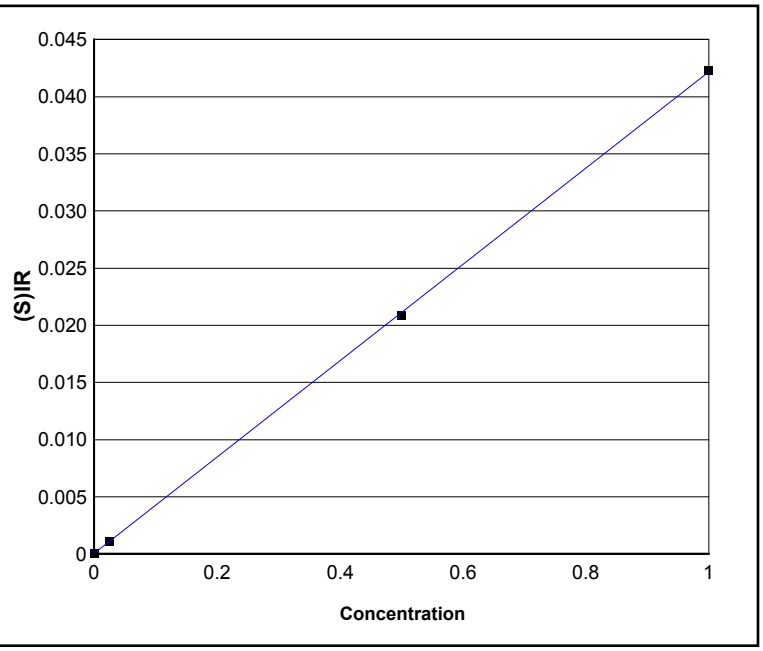
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
icis-2359629	0.0000	0.000002005	0.000002005	0.0000	0.005713	0.0002188	1
ic-2359630	0.2000	0.1984	-0.001597	-0.7986	0.01192	0.00005783	1
ic-2359632	25.00	24.90	-0.1036	-0.4143	0.7851	0.0009699	1
ic-2359631	50.00	50.11	0.1052	0.2103	1.574	0.001880	1



Element Name:	Sb
Element Wavelength:	Sb 206.833 nm
Concentration Units:	ppm
Date of Calibration:	10/29/2014 4:14:17PM
Date of Fit:	10/29/2014 4:14:17PM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	-0.00029848
A1 (Gain):	0.13710
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

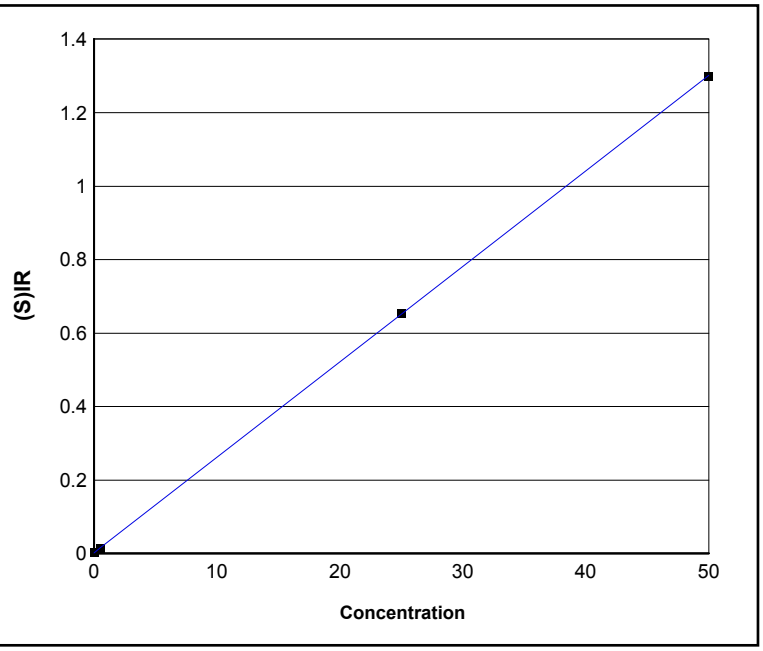
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
icis-2359629	0.00000	0.0000004968	0.0000004968	0.00000	-0.00029841	0.000069901	1
ic-2359631	1.0000	0.99923	-0.00076753	-0.076753	0.13639	0.0010808	1
ic-2359630	0.020000	0.019467	-0.00053348	-2.6674	0.0023691	0.00075126	1
ic-2359632	0.50000	0.50130	0.0013020	0.26040	0.068275	0.00033704	1



Element Name:	Se
Element Wavelength:	Se 196.090 nm
Concentration Units:	ppm
Date of Calibration:	10/29/2014 4:14:17PM
Date of Fit:	10/29/2014 4:14:17PM
Type of Fit:	Linear
Correlation:	0.99997
A0 (Offset):	0.000047162
A1 (Gain):	0.042119
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

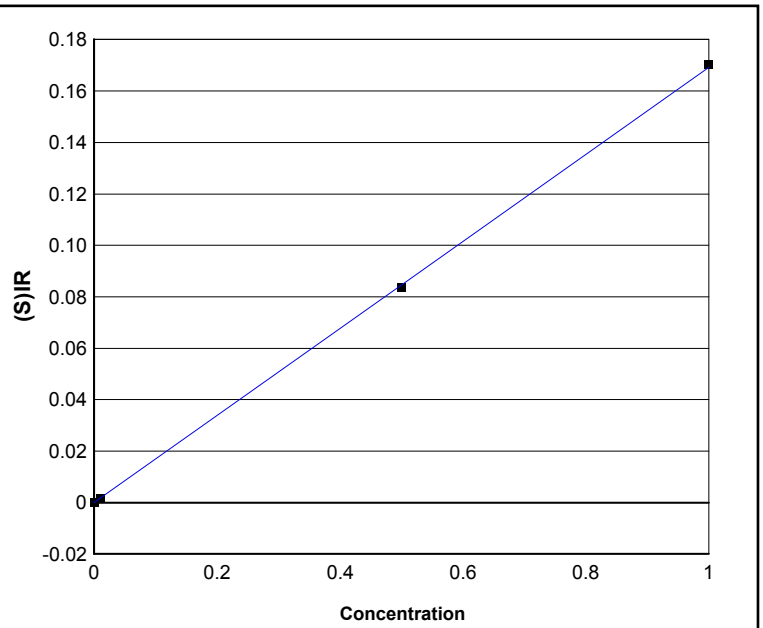
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
icis-2359629	0.00000	0.0000001540	-0.0000001540	0.00000	0.000047155	0.00010241	1
ic-2359631	1.0000	1.0052	0.0051746	0.51746	0.042260	0.00016956	1
ic-2359630	0.025000	0.025298	0.00029831	1.1932	0.0011124	0.000076502	1
ic-2359632	0.50000	0.49453	-0.0054736	-1.0947	0.020814	0.00013133	1



Element Name:	Si
Element Wavelength:	Si 288.158 nm
Concentration Units:	ppm
Date of Calibration:	10/29/2014 4:14:17PM
Date of Fit:	10/29/2014 4:14:17PM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	0.0017842
A1 (Gain):	0.026001
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

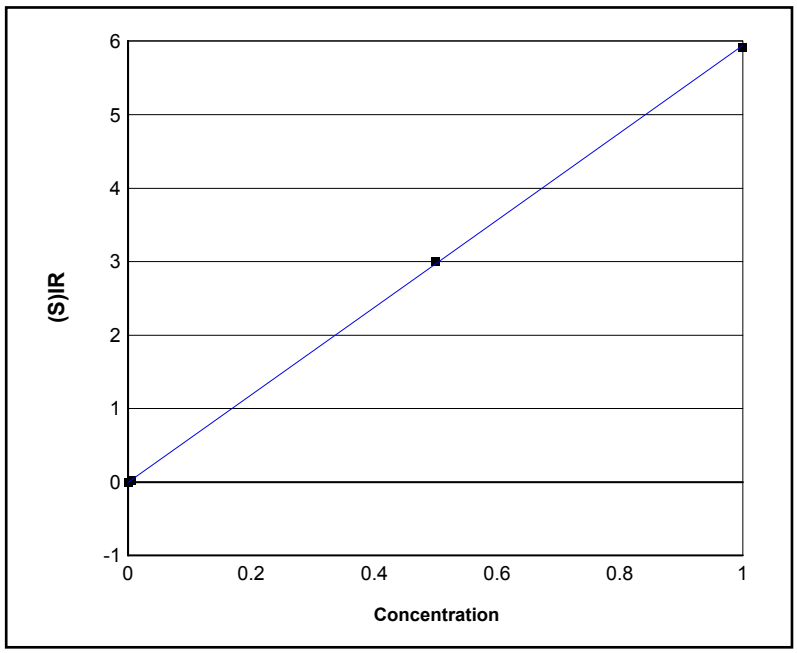
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
icis-2359629	0.00000	0.0000050288	0.0000050288	0.00000	0.0017843	0.00010984	1
ic-2359630	0.50000	0.49381	-0.0061905	-1.2381	0.014626	0.00038514	1
ic-2359632	25.000	25.110	0.10997	0.43990	0.65472	0.0061767	1
ic-2359631	50.000	49.896	-0.10378	-0.20757	1.2992	0.022852	1



Element Name:	Sn
Element Wavelength:	Sn 189.989 nm
Concentration Units:	ppm
Date of Calibration:	10/29/2014 4:14:17PM
Date of Fit:	10/29/2014 4:14:17PM
Type of Fit:	Linear
Correlation:	0.99997
A0 (Offset):	-0.000010109
A1 (Gain):	0.16925
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

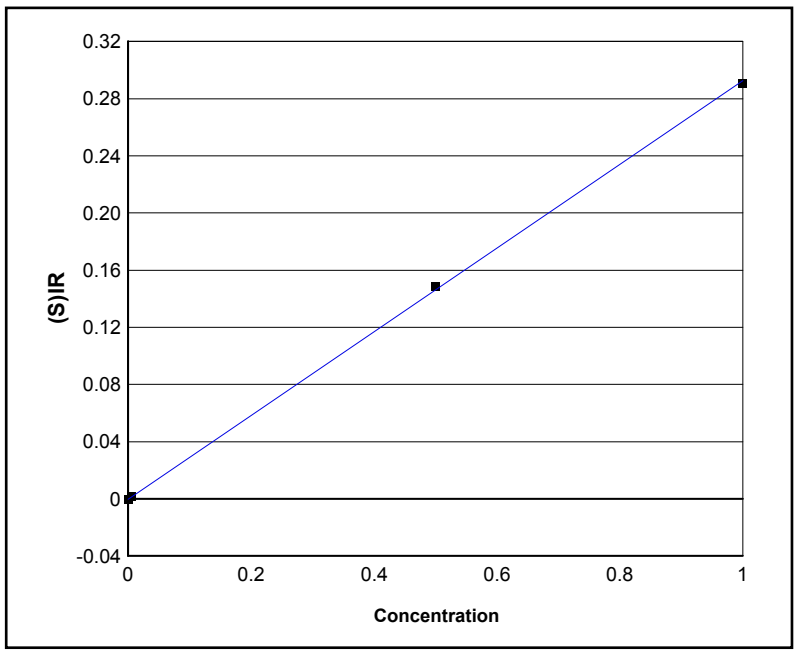
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
icis-2359629	0.00000	0.0000001096	0.0000001096	0.00000	-0.000010091	0.000070268	1
ic-2359631	1.0000	1.0055	0.0055499	0.55499	0.17018	0.0011239	1
ic-2359630	0.010000	0.0099448	-0.000055235	-0.55235	0.0016731	0.000082868	1
ic-2359632	0.50000	0.49451	-0.0054947	-1.0989	0.083686	0.00017559	1



Element Name:	Sr
Element Wavelength:	Sr 407.771 nm
Concentration Units:	ppm
Date of Calibration:	10/29/2014 4:14:17PM
Date of Fit:	10/29/2014 4:14:17PM
Type of Fit:	Linear
Correlation:	0.99998
A0 (Offset):	-0.0025914
A1 (Gain):	5.9444
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

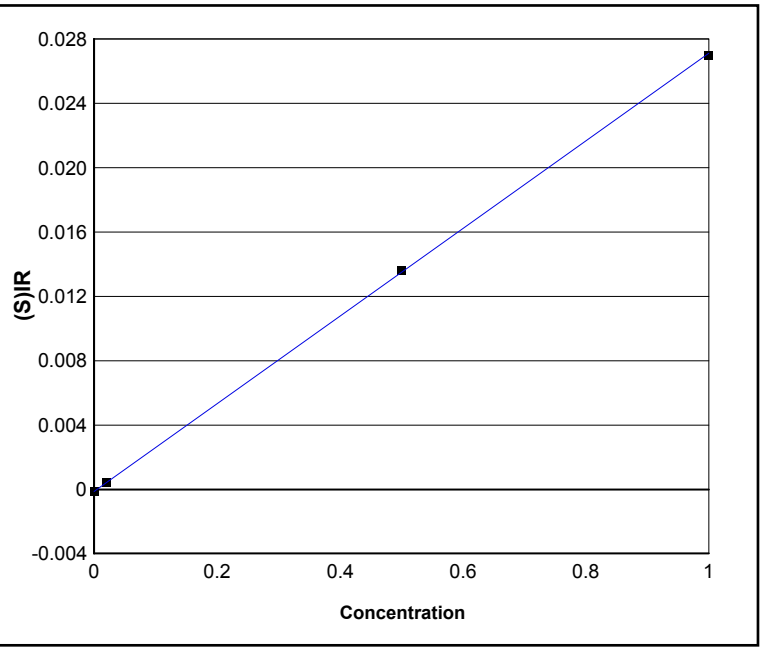
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
icis-2359629	0.00000	0.0000000300	0.0000000300	0.00000	-0.0025912	0.00044193	1
ic-2359630	0.0050000	0.0049452	-0.000054777	-1.0955	0.026805	0.00019004	1
ic-2359632	0.50000	0.50490	0.0049028	0.98057	2.9988	0.030027	1
ic-2359631	1.0000	0.99515	-0.0048481	-0.48481	5.9130	0.11340	1



Element Name:	Ti
Element Wavelength:	Ti 334.904 nm
Concentration Units:	ppm
Date of Calibration:	10/29/2014 4:14:17PM
Date of Fit:	10/29/2014 4:14:17PM
Type of Fit:	Linear
Correlation:	0.99993
A0 (Offset):	-0.00025184
A1 (Gain):	0.29294
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

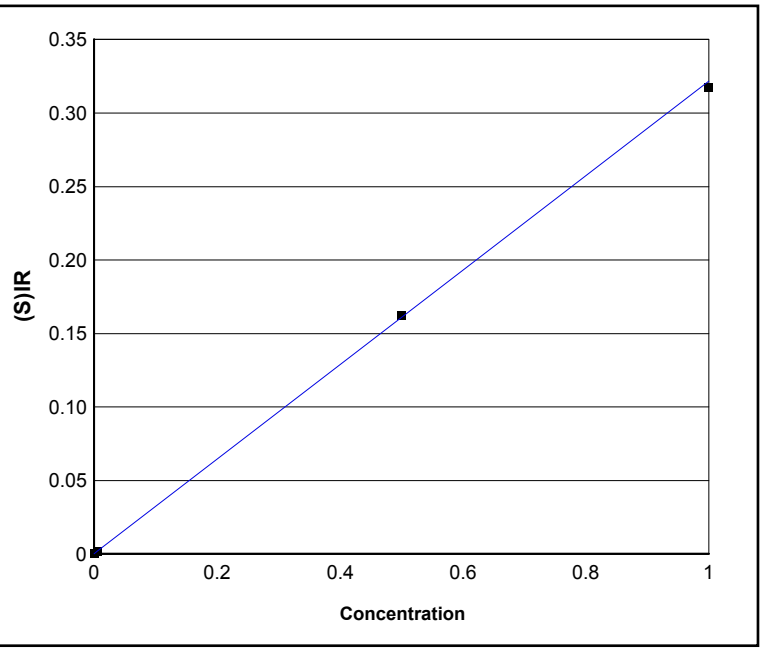
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
icis-2359629	0.00000	0.0000003770	-0.0000003770	0.00000	-0.00025195	0.00013018	1
ic-2359631	1.0000	0.99210	-0.0079045	-0.79045	0.29037	0.00014490	1
ic-2359630	0.0050000	0.0053409	0.00034087	6.8175	0.0013127	0.000055879	1
ic-2359632	0.50000	0.50756	0.0075637	1.5127	0.14843	0.000039196	1



Element Name:	Tl
Element Wavelength:	Tl 190.856 nm
Concentration Units:	ppm
Date of Calibration:	10/29/2014 4:14:17PM
Date of Fit:	10/29/2014 4:14:17PM
Type of Fit:	Linear
Correlation:	0.99998
A0 (Offset):	-0.00013112
A1 (Gain):	0.027255
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

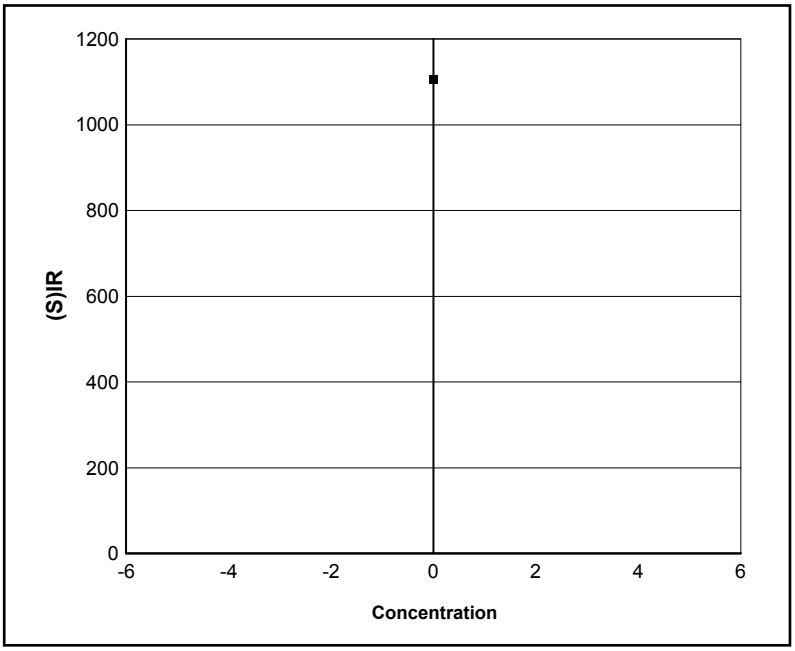
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
icis-2359629	0.00000	0.0000005798	0.0000005798	0.00000	-0.00013110	0.000035251	1
ic-2359631	1.0000	0.99639	-0.0036064	-0.36064	0.027012	0.0000095692	1
ic-2359630	0.020000	0.019321	-0.00067909	-3.3955	0.00039542	0.000060608	1
ic-2359632	0.50000	0.50429	0.0042858	0.85715	0.013606	0.00013552	1



Element Name:	V
Element Wavelength:	V 292.402 nm
Concentration Units:	ppm
Date of Calibration:	10/29/2014 4:14:17PM
Date of Fit:	10/29/2014 4:14:17PM
Type of Fit:	Linear
Correlation:	0.99994
A0 (Offset):	0.00025869
A1 (Gain):	0.32158
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

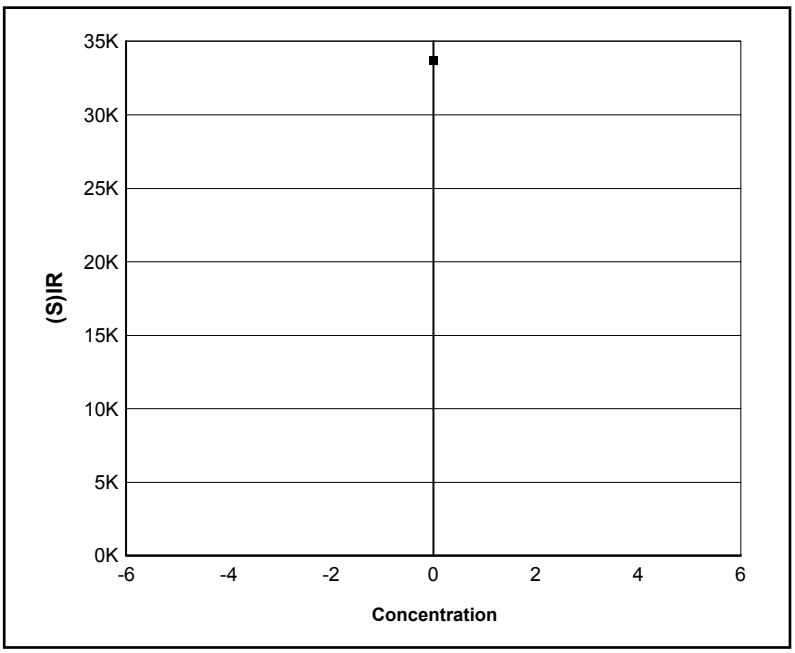
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
icis-2359629	0.00000	0.0000001626	0.0000001626	0.00000	0.00025874	0.00010810	1
ic-2359631	1.0000	0.99234	-0.0076643	-0.76643	0.31728	0.000070304	1
ic-2359630	0.0050000	0.0047970	-0.00020295	-4.0590	0.0017804	0.000033301	1
ic-2359632	0.50000	0.50787	0.0078659	1.5732	0.16253	0.00035439	1



Element Name:	Y
Element Wavelength:	Y 224.306 nm
Concentration Units:	ppm
Date of Calibration:	10/29/2014 4:05:58PM
Date of Fit:	10/29/2014 4:05:58PM
Type of Fit:	Linear
Correlation:	0.0000
A0 (Offset):	0.0000
A1 (Gain):	0.0000
A2 (Curvature):	0.0000
n (Exponent):	1.000

Reslope		**QC Normalize**	
Slope:	1.000	**Slope factor:**	1.000
Y Int:	0.0000	**Offset:**	0.0000

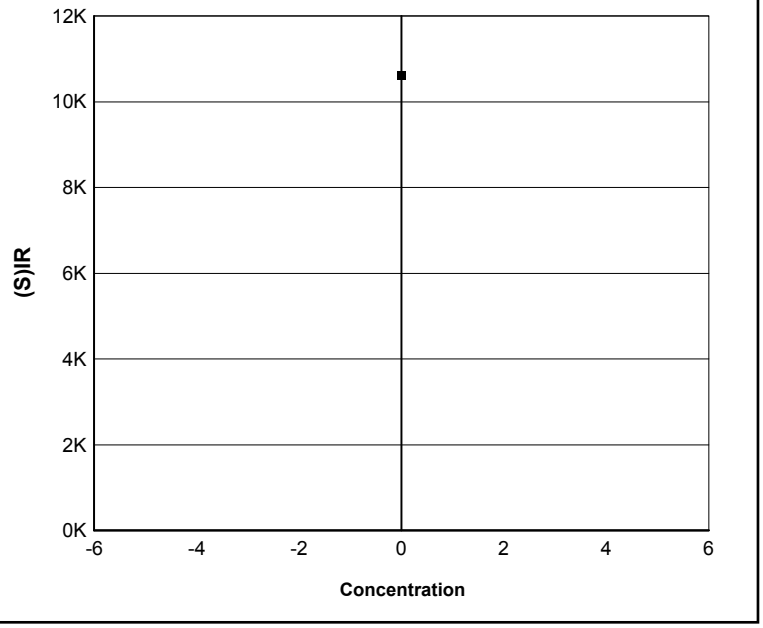
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
icis-2359629	0.0000			0.0000	1,106	3.212	1



Element Name:	Y
Element Wavelength:	Y 360.073 nm
Concentration Units:	ppm
Date of Calibration:	10/29/2014 4:05:58PM
Date of Fit:	10/29/2014 4:05:58PM
Type of Fit:	Linear
Correlation:	0.0000
A0 (Offset):	0.0000
A1 (Gain):	0.0000
A2 (Curvature):	0.0000
n (Exponent):	1.000

Reslope		**QC Normalize**	
Slope:	1.000	**Slope factor:**	1.000
Y Int:	0.0000	**Offset:**	0.0000

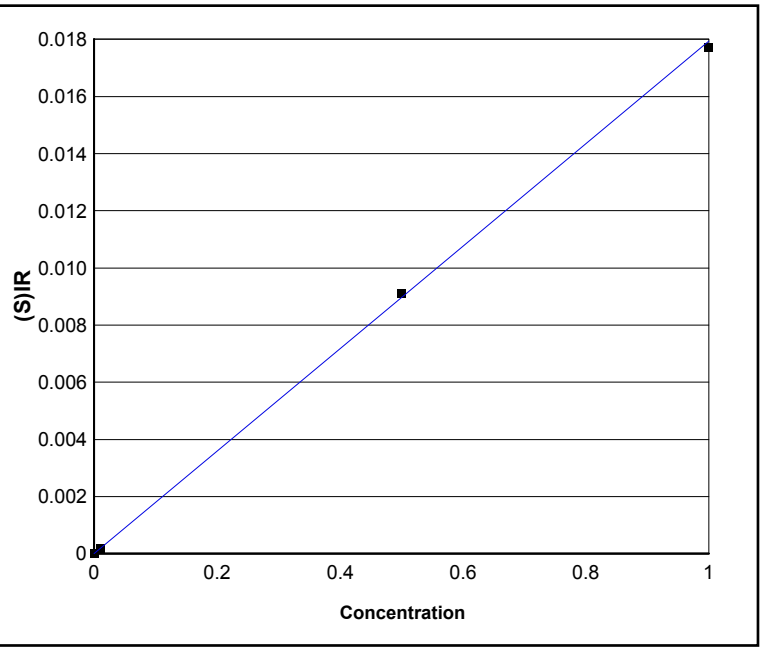
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
icis-2359629	0.0000			0.0000	33,700	380.0	1



Element Name:	Y
Element Wavelength:	Y 377.433 nm
Concentration Units:	ppm
Date of Calibration:	10/29/2014 4:05:58PM
Date of Fit:	10/29/2014 4:05:58PM
Type of Fit:	Linear
Correlation:	0.0000
A0 (Offset):	0.0000
A1 (Gain):	0.0000
A2 (Curvature):	0.0000
n (Exponent):	1.000

Reslope		QC Normalize	
Slope:	1.000	**Slope factor:**	1.000
Y Int:	0.0000	**Offset:**	0.0000

Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
icis-2359629	0.0000			0.0000	10,610	159.9	1



Element Name:	Zn
Element Wavelength:	Zn 206.200 nm
Concentration Units:	ppm
Date of Calibration:	10/29/2014 4:14:17PM
Date of Fit:	10/29/2014 4:14:17PM
Type of Fit:	Linear
Correlation:	0.99991
A0 (Offset):	0.0000003621
A1 (Gain):	0.017939
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
icis-2359629	0.00000	0.0000001243	0.0000001243	0.00000	0.0000003644	0.000024017	1
ic-2359631	1.0000	0.99086	-0.0091422	-0.91422	0.017737	0.000026614	1
ic-2359630	0.010000	0.0097799	-0.00022012	-2.2012	0.00017565	0.0000091128	1
ic-2359632	0.50000	0.50936	0.0093626	1.8725	0.0091185	0.000024497	1

Sample Name: icis-2359629 Acquired: 10/29/2014 16:03:08 Type: Cal
Method: ICAP 1 MARCH 2014(v153) Mode: IR Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.00022**	**.00123**	**.00040**	**.00081**	**.00122**	**.00085**	**.00005**	**.00728**	**.00263**	**-.00065**	**-.00000**	**.00621**
Stddev	.00003	.00021	.00016	.00019	.00014	.00001	.00008	.00000	.00030	.00005	.00001	.00005
%RSD	15.123	16.761	39.837	22.912	11.200	1.2174	164.80	.00410	11.556	8.3949	1247.8	.80072
#1	-.00019	.00137	.00029	.00094	.00113	.00085	-.00001	.00728	.00285	-.00061	.00001	.00625
#2	-.00024	.00108	.00052	.00068	.00132	.00086	.00011	.00728	.00242	-.00069	-.00001	.00618

Elem	Fe2599	Fe2714	K_7664	Li6707	Mg2790	Mn2576	Mn2576-2	Mo2020	Na5895	Na8183	Ni2316	Pb2203
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00019**	**-.00003**	**.00203**	**.00094**	**.00001**	**.00048**	**.00007**	**.00038**	**.00177**	**-.00450**	**-.00026**	**-.00029**
Stddev	.00004	.00007	.00042	.00071	.00001	.00006	.00001	.00012	.00103	.00046	.00003	.00017
%RSD	19.347	266.26	20.914	75.647	50.346	11.988	12.939	32.313	58.333	10.264	10.762	58.218
#1	.00016	.00002	.00173	.00144	.00001	.00052	.00007	.00029	.00104	-.00482	-.00028	-.00017
#2	.00022	-.00008	.00233	.00044	.00001	.00044	.00006	.00046	.00250	-.00417	-.00024	-.00042

Elem	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.0057**	**-.00030**	**.00005**	**.00178**	**-.00001**	**-.00259**	**-.00025**	**-.00013**	**.00026**	**.00000**
Stddev	.0002	.00007	.00010	.00011	.00007	.00044	.00013	.00004	.00011	.00002
%RSD	3.830	23.424	217.18	6.1560	696.37	17.055	51.671	26.889	41.778	6591.5
#1	.0059	-.00035	.00012	.00186	.00004	-.00290	-.00034	-.00016	.00034	-.00002
#2	.0056	-.00025	-.00003	.00171	-.00006	-.00228	-.00016	-.00011	.00018	.00002

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1646.2**	**1106.2**	**33695.**	**10614.**
Stddev	3.3	3.2	380.	160.
%RSD	.20074	.29039	1.1278	1.5070
#1	1643.9	1104.0	33964.	10727.
#2	1648.5	1108.5	33426.	10501.

Sample Name: ic-2359630 Acquired: 10/29/2014 16:06:01 Type: Cal
Method: ICAP 1 MARCH 2014(v153) Mode: IR Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00098**	**.00577**	**.00131**	**.01152**	**.01228**	**.02495**	**.00910**	**.05988**	**.00883**	**.00415**	**.00039**	**.01052**
Stddev	.00005	.00013	.00005	.00006	.00020	.00026	.00002	.00061	.00018	.00015	.00000	.00002
%RSD	5.2735	2.3323	3.6251	.48466	1.6372	1.0552	.22640	1.0247	2.0744	3.5802	.68929	.19154
#1	.00101	.00568	.00128	.01156	.01242	.02476	.00909	.05944	.00870	.00426	.00039	.01053
#2	.00094	.00587	.00134	.01148	.01214	.02513	.00912	.06031	.00896	.00405	.00039	.01051

Elem	Fe2599	Fe2714	K_7664	Li6707	Mg2790	Mn2576	Mn2576-2	Mo2020	Na5895	Na8183	Ni2316	Pb2203
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00371**	**.00028**	**.01930**	**.04396**	**.00215**	**.00255**	**.00055**	**.00553**	**.20593**	**.00252**	**.00197**	**.00157**
Stddev	.00000	.00006	.00007	.00067	.00001	.00009	.00002	.00014	.00387	.00040	.00024	.00034
%RSD	.01719	23.220	.37389	1.5148	.67703	3.4563	3.4486	2.6040	1.8796	15.818	12.286	21.291
#1	.00371	.00023	.01925	.04349	.00216	.00262	.00056	.00543	.20319	.00281	.00215	.00181
#2	.00371	.00032	.01935	.04444	.00214	.00249	.00054	.00563	.20867	.00224	.00180	.00134

Elem	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.0119**	**.00237**	**.00111**	**.01463**	**.00167**	**.02681**	**.00131**	**.00040**	**.00178**	**.00018**
Stddev	.0001	.00075	.00008	.00039	.00008	.00019	.00006	.00006	.00003	.00001
%RSD	.4850	31.711	6.8774	2.6332	4.9531	.70896	4.2568	15.328	1.8705	5.1882
#1	.0119	.00290	.00117	.01435	.00161	.02694	.00135	.00035	.00180	.00018
#2	.0120	.00184	.00106	.01490	.00173	.02667	.00127	.00044	.00176	.00017

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1664.1**	**1134.5**	**34361.**	**10772.**
Stddev	1.9	.8	82.	84.
%RSD	.11356	.07061	.23758	.78425
#1	1665.4	1135.0	34418.	10832.
#2	1662.7	1133.9	34303.	10713.

Sample Name: ic-2359632 Acquired: 10/29/2014 16:08:53 Type: Cal
Method: ICAP 1 MARCH 2014(v153) Mode: IR Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.08403**	**.58646**	**.03509**	**.27004**	**2.7552**	**5.8078**	**2.2850**	**2.7389**	**1.5064**	**.63438**	**.04713**	**.23881**
Stddev	.00003	.00427	.00021	.00169	.0202	.0001	.0135	.0092	.0051	.00090	.00005	.00120
%RSD	.03177	.72893	.58915	.62585	.73420	.00205	.58925	.33514	.33871	.14200	.10713	.50396
#1	.08401	.58344	.03523	.27123	2.7409	5.8077	2.2754	2.7324	1.5100	.63374	.04717	.23967
#2	.08405	.58948	.03494	.26884	2.7695	5.8079	2.2945	2.7454	1.5028	.63502	.04709	.23796

Elem	Fe2599	Fe2714	K_7664	Li6707	Mg2790	Mn2576	Mn2576-2	Mo2020	Na5895	Na8183	Ni2316	Pb2203
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1.8279**	**.15253**	**.93765**	**.75034**	**.26727**	**.38094**	**.08322**	**.25868**	**5.3268**	**.16456**	**.11764**	**.07163**
Stddev	.0080	.00093	.01031	.00724	.00003	.00104	.00034	.00044	.0477	.00091	.00036	.00013
%RSD	.43662	.60707	1.0993	.96450	.01001	.27228	.40498	.17125	.89621	.55352	.30378	.18189
#1	1.8222	.15187	.93036	.74522	.26725	.38167	.08346	.25899	5.2931	.16392	.11739	.07172
#2	1.8335	.15318	.94494	.75545	.26729	.38020	.08298	.25837	5.3606	.16521	.11790	.07154

Elem	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.7851**	**.06827**	**.02081**	**.65472**	**.08369**	**2.9988**	**.14843**	**.01361**	**.16253**	**.00912**
Stddev	.0010	.00034	.00013	.00618	.00018	.0300	.00004	.00014	.00035	.00002
%RSD	.1235	.49366	.63098	.94341	.20982	1.0013	.02641	.99600	.21805	.26865
#1	.7858	.06851	.02072	.65035	.08356	2.9775	.14846	.01370	.16278	.00910
#2	.7844	.06804	.02091	.65909	.08381	3.0200	.14840	.01351	.16228	.00914

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1470.6**	**1079.0**	**32128.**	**10415.**
Stddev	7.6	9.6	63.	25.
%RSD	.51454	.89297	.19712	.24140
#1	1465.3	1072.1	32083.	10432.
#2	1476.0	1085.8	32172.	10397.

Sample Name: ic-2359631 Acquired: 10/29/2014 16:11:37 Type: Cal
Method: ICAP 1 MARCH 2014(v153) Mode: IR Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.16582**	**1.1670**	**.07063**	**.53279**	**5.4276**	**11.206**	**4.4829**	**5.4942**	**3.0144**	**1.2800**	**.09205**	**.46720**
Stddev	.00067	.0213	.00037	.00128	.1055	.026	.0904	.0697	.0033	.0056	.00062	.00030
%RSD	.40336	1.8269	.51774	.23932	1.9430	.23273	2.0175	1.2690	.10862	.43799	.67075	.06509
#1	.16629	1.1519	.07037	.53369	5.3530	11.188	4.4190	5.4449	3.0121	1.2760	.09249	.46741
#2	.16535	1.1821	.07089	.53188	5.5021	11.225	4.5469	5.5435	3.0167	1.2839	.09161	.46698

Elem	Fe2599	Fe2714	K_7664	Li6707	Mg2790	Mn2576	Mn2576-2	Mo2020	Na5895	Na8183	Ni2316	Pb2203
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3.5936**	**.30301**	**1.8555**	**1.4780**	**.51693**	**.73332**	**.16429**	**.50903**	**10.561**	**.32840**	**.23738**	**.14418**
Stddev	.0603	.00560	.0342	.0309	.00021	.00126	.00098	.00013	.226	.00605	.00090	.00049
%RSD	1.6769	1.8479	1.8433	2.0904	.03986	.17179	.59943	.02519	2.1384	1.8417	.38016	.33696
#1	3.5510	.29905	1.8314	1.4562	.51679	.73421	.16359	.50894	10.401	.32412	.23674	.14384
#2	3.6362	.30697	1.8797	1.4998	.51708	.73243	.16498	.50912	10.721	.33267	.23802	.14452

Elem	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1.574**	**.13639**	**.04226**	**1.2992**	**.17018**	**5.9130**	**.29037**	**.02701**	**.31728**	**.01774**
Stddev	.002	.00108	.00017	.0228	.00112	.1134	.00014	.00001	.00007	.00003
%RSD	.1194	.79244	.40123	1.7588	.66043	1.9177	.04990	.03543	.02216	.15005
#1	1.573	.13715	.04214	1.2831	.16939	5.8328	.29027	.02700	.31733	.01776
#2	1.576	.13562	.04238	1.3154	.17098	5.9932	.29047	.02702	.31723	.01772

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1400.4**	**1067.0**	**31956.**	**10374.**
Stddev	2.5	4.6	29.	112.
%RSD	.17664	.43292	.08979	1.0802
#1	1398.6	1063.8	31976.	10453.
#2	1402.1	1070.3	31936.	10295.

Sample Name: ICV-2388839 Acquired: 10/29/2014 16:14:21 Type: QC
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.39026**	**19.476**	**.36507**	**.37070**	**.38897**	**.36844**	**18.699**	**.37372**	**.37221**	**.38495**	**.37798**	**18.613**
Stddev	.00080	.239	.00212	.00093	.00230	.00155	.006	.00127	.00061	.00222	.00325	.046
%RSD	.20556	1.2286	.58176	.25010	.59217	.42172	.03363	.34067	.16278	.57710	.86108	.24736
#1	.39083	19.307	.36657	.37136	.38734	.36734	18.695	.37462	.37179	.38653	.37568	18.580
#2	.38969	19.646	.36357	.37004	.39060	.36953	18.704	.37282	.37264	.38338	.38028	18.645
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value												
Range												

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**18.612**	**.37396**	**19.306**	**.38731**	**.38124**	**18.595**	**.37323**	**.37560**	**18.55**	**.37490**	**.36818**	**19.149**
Stddev	.158	.00531	.060	.00044	.00048	.225	.00089	.00001	.01	.00214	.00082	.135
%RSD	.84738	1.4191	.30850	.11454	.12515	1.2093	.23872	.00350	.0280	.57010	.22247	.70675
#1	18.500	.37021	19.264	.38763	.38158	18.436	.37260	.37559	18.56	.37339	.36760	19.053
#2	18.724	.37771	19.348	.38700	.38091	18.754	.37386	.37561	18.55	.37641	.36876	19.244
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value												
Range												

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.37302**	**.37792**	**.38529**	**.37465**	**.38434**	**.39318**
Stddev	.00101	.00338	.00100	.00457	.00087	.00449
%RSD	.27055	.89547	.25924	1.2190	.22592	1.1420
#1	.37230	.37553	.38458	.37142	.38373	.39636
#2	.37373	.38032	.38599	.37788	.38496	.39001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1519.0**	**1107.6**	**32811.**	**10619.**
Stddev	1.3	.3	100.	13.
%RSD	.08449	.02923	.30327	.12440
#1	1519.9	1107.4	32881.	10609.
#2	1518.1	1107.8	32740.	10628.

Sample Name: ICB-2388837 Acquired: 10/29/2014 16:17:01 Type: QC
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00027**	**-.00260**	**-.00338**	**.00115**	**-.00001**	**.00008**	**-.00145**	**-.00015**	**-.00000**	**-.00034**	**-.00000**	**.00107**
Stddev	.00007	.01311	.00161	.00038	.00000	.00002	.00117	.00020	.00009	.00029	.00020	.00200
%RSD	26.667	505.23	47.618	32.839	7.6616	27.417	80.760	128.93	5361.9	84.540	4215.8	187.12
#1	.00032	.00668	-.00224	.00142	-.00001	.00009	-.00228	-.00029	-.00007	-.00054	-.00015	.00248
#2	.00022	-.01187	-.00452	.00089	-.00001	.00006	-.00062	-.00001	.00006	-.00014	.00014	-.00035
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit												
Low Limit												

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00534**	**.00067**	**-.00069**	**.00012**	**-.00027**	**.00486**	**.00051**	**.00196**	**-.0043**	**-.00068**	**.00157**	**.02403**
Stddev	.01793	.00013	.00022	.00010	.00004	.00215	.00083	.00073	.0037	.00092	.00571	.01377
%RSD	335.52	19.582	31.386	82.242	15.217	44.255	161.04	37.039	87.67	134.90	364.82	57.321
#1	.01802	.00057	-.00053	.00019	-.00024	.00638	-.00007	.00145	-.0069	-.00003	-.00247	.03377
#2	-.00733	.00076	-.00084	.00005	-.00030	.00334	.00110	.00247	-.0016	-.00134	.00560	.01429
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit												
Low Limit												

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00057**	**.00007**	**.00000**	**-.00069**	**.00013**	**.00152**
Stddev	.00010	.00001	.00009	.00362	.00001	.00041
%RSD	18.194	14.837	2211.1	523.02	5.2327	27.214
#1	-.00064	.00008	.00007	.00187	.00012	.00123
#2	-.00049	.00006	-.00006	-.00325	.00013	.00181
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1668.1**	**1126.2**	**34043.**	**10560.**
Stddev	12.0	4.9	58.	17.
%RSD	.71885	.43823	.16916	.15771
#1	1659.6	1122.7	34083.	10549.
#2	1676.6	1129.7	34002.	10572.

Sample Name: ICVL-2388843 Acquired: 10/29/2014 16:19:54 Type: QC
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00604**	**.20431**	**.01188**	**.02066**	**.00210**	**.00207**	**.48985**	**.00190**	**.00385**	**.00402**	**.00865**	**.04973**
Stddev	.00020	.00329	.00342	.00033	.00004	.00004	.00588	.00001	.00014	.00046	.00044	.00112
%RSD	3.2651	1.6114	28.826	1.5890	1.8028	1.7602	1.2013	.49781	3.5874	11.513	5.1095	2.2553
#1	.00590	.20198	.01430	.02043	.00213	.00205	.48569	.00191	.00395	.00435	.00896	.04894
#2	.00617	.20664	.00946	.02090	.00207	.00210	.49401	.00189	.00375	.00369	.00833	.05053
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value												
Range												

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.50577**	**.02920**	**.20158**	**.00277**	**.01048**	**.97425**	**.00927**	**.01077**	**.1916**	**.02023**	**.02955**	**.50114**
Stddev	.00829	.00002	.00649	.00006	.00002	.01379	.00053	.00074	.0035	.00093	.00710	.01676
%RSD	1.6388	.08254	3.2181	2.2530	.16342	1.4154	5.7131	6.8337	1.846	4.5987	24.029	3.3444
#1	.49991	.02918	.19699	.00281	.01049	.96450	.00890	.01025	.1941	.02089	.02453	.48929
#2	.51163	.02922	.20616	.00272	.01046	.98401	.00965	.01129	.1891	.01958	.03457	.51299
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value												
Range												

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00930**	**.00498**	**.00544**	**.01694**	**.00473**	**.01175**
Stddev	.00016	.00006	.00026	.00133	.00018	.00082
%RSD	1.6832	1.2098	4.7782	7.8523	3.8472	7.0005
#1	.00941	.00494	.00562	.01788	.00486	.01116
#2	.00919	.00502	.00526	.01600	.00460	.01233
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1666.0**	**1131.5**	**34460.**	**10747.**
Stddev	4.0	8.0	313.	155.
%RSD	.24084	.70330	.90838	1.4414
#1	1668.8	1137.1	34239.	10856.
#2	1663.1	1125.8	34681.	10637.

Sample Name: CRI-2359636 Acquired: 10/29/2014 16:22:45 Type: QC
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00352**	**.21798**	**.01191**	**.02053**	**.00218**	**.00213**	**.50676**	**.00092**	**.00397**	**.00466**	**.01007**	**.05889**
Stddev	.00063	.01062	.00050	.00019	.00005	.00014	.02345	.00004	.00000	.00000	.00010	.01144
%RSD	18.019	4.8718	4.1905	.90440	2.0873	6.5271	4.6265	3.8047	.00852	.10572	.96309	19.429
#1	.00397	.21047	.01156	.02066	.00222	.00203	.49018	.00095	.00397	.00466	.01014	.05080
#2	.00307	.22549	.01226	.02040	.00215	.00222	.52334	.00090	.00397	.00466	.01000	.06698
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value												
Range												

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.49800**	**.03022**	**.20920**	**.00298**	**.01054**	**1.0039**	**.00974**	**.00594**	**.1931**	**.02149**	**.02001**	**.51815**
Stddev	.01969	.00081	.00216	.00004	.00016	.0256	.00027	.00030	.0032	.00091	.00515	.01751
%RSD	3.9538	2.6892	1.0338	1.2892	1.4891	2.5533	2.7911	5.0828	1.667	4.2561	25.749	3.3785
#1	.48408	.02964	.21073	.00300	.01043	.98573	.00994	.00573	.1908	.02214	.02365	.50577
#2	.51192	.03079	.20767	.00295	.01065	1.0220	.00955	.00615	.1954	.02085	.01636	.53053
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value												
Range												

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00952**	**.00519**	**.00554**	**.02296**	**.00497**	**.01074**
Stddev	.00051	.00021	.00036	.00131	.00008	.00165
%RSD	5.4041	4.0397	6.4221	5.7069	1.6404	15.323
#1	.00916	.00505	.00579	.02203	.00503	.01191
#2	.00988	.00534	.00529	.02389	.00491	.00958
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1663.4**	**1125.3**	**33770.**	**10813.**
Stddev	12.7	7.4	191.	10.
%RSD	.76055	.65735	.56502	.09592
#1	1654.4	1120.0	33635.	10820.
#2	1672.3	1130.5	33905.	10805.

Sample Name: ICSA-2359635 Acquired: 10/29/2014 16:25:37 Type: QC
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00139**	**530.35**	**.00665**	**.00407**	**.00012**	**-.00000**	**473.51**	**.00065**	**-.00115**	**.00102**	**.00282**	**183.00**
Stddev	.00022	.35	.00212	.00084	.00002	.00001	1.89	.00019	.00014	.00115	.00005	.04
%RSD	15.737	.06522	31.878	20.613	18.311	323.03	.39975	29.144	11.852	113.57	1.7104	.02191
#1	-.00124	530.59	.00515	.00466	.00011	-.00001	472.17	.00052	-.00125	.00020	.00279	182.97
#2	-.00155	530.10	.00815	.00348	.00014	.00000	474.85	.00078	-.00106	.00183	.00285	183.03
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit												
Low Limit												

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00706**	**.00684**	**486.84**	**.00382**	**-.00247**	**.02431**	**.01116**	**.00138**	**-.0868**	**.00989**	**-.00333**	**.03556**
Stddev	.01608	.00029	1.00	.00007	.00013	.00302	.00057	.00215	.0163	.00132	.00288	.01007
%RSD	227.71	4.2724	.20508	1.7139	5.4305	12.418	5.1148	156.15	18.77	13.343	86.471	28.309
#1	.00431	.00663	486.14	.00387	-.00237	.02217	.01156	.00290	-.0983	.00896	-.00537	.04268
#2	-.01843	.00705	487.55	.00378	-.00256	.02644	.01075	-.00014	-.0752	.01082	-.00129	.02845
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
High Limit												
Low Limit												

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00032**	**.01440**	**.00181**	**-.02027**	**.00392**	**.00696**
Stddev	.00105	.00004	.00006	.00068	.00012	.00436
%RSD	323.37	.31068	3.0992	3.3533	3.0783	62.678
#1	.00042	.01443	.00177	-.02075	.00401	.00387
#2	-.00107	.01436	.00185	-.01979	.00384	.01004
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1172.6**	**999.01**	**29116.**	**10265.**
Stddev	3.0	3.39	93.	34.
%RSD	.25363	.33959	.31907	.33436
#1	1170.5	996.61	29182.	10289.
#2	1174.7	1001.4	29050.	10241.

Sample Name: ICSAB-2261635 Acquired: 10/29/2014 16:28:33 Type: QC
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.23485**	**525.18**	**.11017**	**.01214**	**.47726**	**.47787**	**468.71**	**1.0237**	**.50191**	**.48340**	**.56421**	**92.583**	**.01357**
Stddev	.00115	3.78	.00634	.00104	.00318	.00308	6.54	.0035	.00046	.00139	.00201	.639	.00533
%RSD	.48892	.71953	5.7525	8.5328	.66651	.64478	1.3952	.34262	.09129	.28850	.35595	.69021	39.286
#1	.23566	522.51	.11465	.01288	.47501	.47570	464.08	1.0212	.50224	.48439	.56563	92.131	.01734
#2	.23404	527.85	.10569	.01141	.47951	.48005	473.33	1.0262	.50159	.48242	.56279	93.035	.00980
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
Value													
Range													

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.51880**	**476.63**	**.47317**	**-.00043**	**.09685**	**.96808**	**.04836**	F **.6072**	**.63505**	**.05223**	**1.1349**	**-.00076**	**.50242**
Stddev	.00437	.79	.00030	.00033	.00263	.00056	.00331	.0009	.00149	.00699	.0135	.00034	.00371
%RSD	.84188	.16531	.06340	76.862	2.7152	.05810	6.8397	.1484	.23451	13.384	1.1916	44.717	.73907
#1	.51571	477.18	.47296	-.00020	.09499	.96768	.04602	.6078	.63400	.05717	1.1254	-.00052	.49979
#2	.52189	476.07	.47338	-.00067	.09871	.96847	.05070	.6065	.63611	.04729	1.1445	-.00100	.50504
Check ?	None	Chk Pass	Chk Pass	None	None	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	None	None
Value								.5000					
Range								20.00%					

Elem	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm
Avg	**.00295**	**.09970**	**.49607**	**.91779**
Stddev	.00011	.00403	.00175	.00424
%RSD	3.6545	4.0456	.35290	.46214
#1	.00287	.09685	.49731	.92079
#2	.00302	.10256	.49484	.91480
Check ?	None	Chk Pass	Chk Pass	Chk Pass
Value				
Range				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1167.2**	**990.27**	**28645.**	**10051.**
Stddev	2.4	2.95	63.	13.
%RSD	.20595	.29818	.21936	.13179
#1	1168.9	992.36	28601.	10060.
#2	1165.5	988.18	28690.	10041.

Sample Name: CCV-2388838 Acquired: 10/29/2014 16:31:26 Type: QC
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.51895**	**25.861**	**.49571**	**.49677**	**.49597**	**.48985**	**24.769**	**.50182**	**.49879**	**.50428**	**.50154**	**24.709**	**24.674**	**.49630**
Stddev	.00127	.052	.00025	.00215	.00124	.00076	.131	.00045	.00013	.00102	.00214	.052	.074	.00037
%RSD	.24451	.20173	.05040	.43218	.24953	.15505	.52716	.08874	.02574	.20199	.42627	.21101	.30180	.07509
#1	.51805	25.898	.49589	.49525	.49685	.48931	24.676	.50214	.49870	.50500	.50305	24.672	24.621	.49656
#2	.51984	25.824	.49553	.49829	.49510	.49039	24.861	.50151	.49888	.50356	.50003	24.746	24.727	.49604
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value														
Range														

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**25.726**	**.51342**	**.51169**	**24.667**	**.49851**	**.50117**	**25.00**	**.50745**	**.49550**	**25.104**	**.50051**	**.50244**	**.51098**	**.50157**
Stddev	.076	.00196	.00122	.059	.00268	.00305	.03	.00156	.00554	.224	.00066	.00004	.00033	.00168
%RSD	.29535	.38169	.23855	.24102	.53699	.60843	.1124	.30835	1.1181	.89385	.13281	.00803	.06504	.33547
#1	25.672	.51203	.51082	24.625	.49662	.49901	25.02	.50856	.49158	24.945	.50004	.50241	.51074	.50038
#2	25.780	.51480	.51255	24.710	.50041	.50332	24.98	.50635	.49941	25.263	.50098	.50246	.51121	.50276
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value														
Range														

Elem	V_2924	Zn2062
Units	ppm	ppm
Avg	**.50331**	**.50777**
Stddev	.00003	.00261
%RSD	.00656	.51425
#1	.50334	.50592
#2	.50329	.50962
Check ?	Chk Pass	Chk Pass
Value		
Range		

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1474.7**	**1081.6**	**32446.**	**10570.**
Stddev	.9	.9	56.	45.
%RSD	.05810	.07979	.17294	.43015
#1	1475.3	1082.2	32486.	10602.
#2	1474.1	1081.0	32406.	10538.

Sample Name: CCB-2388837 Acquired: 10/29/2014 16:34:11 Type: QC
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00028**	**.00075**	**-.00447**	**.00130**	**.00003**	**.00009**	**.00596**	**-.00017**	**.00015**	**-.00039**	**.00019**	**.00266**
Stddev	.00013	.00369	.00310	.00005	.00005	.00011	.00218	.00023	.00008	.00011	.00015	.00040
%RSD	46.970	493.36	69.353	3.9437	136.58	118.62	36.541	132.21	53.860	28.032	76.348	15.073
#1	.00018	-.00186	-.00666	.00134	.00007	.00001	.00442	-.00001	.00009	-.00031	.00029	.00237
#2	.00037	.00335	-.00228	.00127	.00000	.00017	.00750	-.00033	.00020	-.00047	.00009	.00294
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit												
Low Limit												

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00421**	**-.00010**	**.01137**	**.00006**	**.00021**	**.00643**	**.00028**	**.00020**	**-.0013**	**.00184**	**.00550**	**.01637**
Stddev	.00444	.00058	.00567	.00011	.00007	.00497	.00043	.00032	.0039	.00059	.00475	.01153
%RSD	105.51	555.05	49.862	192.82	33.198	77.368	150.19	157.09	299.4	32.284	86.478	70.416
#1	-.00735	-.00051	.01538	.00014	.00026	.00291	-.00002	-.00002	.0014	.00226	.00214	.02452
#2	-.00107	.00030	.00736	-.00002	.00016	.00994	.00058	.00043	-.0040	.00142	.00886	.00822
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit												
Low Limit												

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00050**	**.00006**	**.00050**	**-.00386**	**-.00033**	**-.00034**
Stddev	.00006	.00006	.00071	.00413	.00026	.00015
%RSD	12.470	89.702	141.64	106.92	78.756	43.144
#1	-.00045	.00002	.00100	-.00094	-.00052	-.00044
#2	-.00054	.00010	-.00000	-.00679	-.00015	-.00023
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1656.7**	**1110.9**	**33912.**	**10665.**
Stddev	1.3	3.7	133.	91.
%RSD	.07736	.32961	.39106	.84928
#1	1655.8	1108.3	34006.	10601.
#2	1657.6	1113.5	33819.	10729.

Sample Name: CCVL-2388843 Acquired: 10/29/2014 16:37:03 Type: QC
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00587**	**.20612**	**.01132**	**.02099**	**.00211**	**.00205**	**.50430**	**.00194**	**.00408**	**.00449**	**.00852**	**.05044**
Stddev	.00042	.00232	.00321	.00007	.00004	.00000	.00214	.00001	.00032	.00001	.00013	.00044
%RSD	7.1887	1.1266	28.365	.31964	2.0676	.06636	.42422	.65994	7.8482	.26170	1.5597	.87621
#1	.00616	.20776	.00905	.02095	.00214	.00205	.50581	.00195	.00385	.00450	.00843	.05075
#2	.00557	.20447	.01359	.02104	.00208	.00205	.50279	.00193	.00431	.00448	.00862	.05012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value												
Range												

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.47911**	**.02930**	**.20976**	**.00281**	**.01028**	**.97802**	**.00918**	**.01091**	**.1848**	**.01907**	**.02759**	**.51627**
Stddev	.01116	.00055	.00485	.00003	.00007	.00070	.00056	.00094	.0030	.00027	.00029	.00175
%RSD	2.3303	1.8683	2.3116	1.1038	.72666	.07202	6.1429	8.6054	1.631	1.4107	1.0416	.33970
#1	.48700	.02969	.21318	.00278	.01022	.97852	.00958	.01158	.1869	.01926	.02779	.51751
#2	.47121	.02891	.20633	.00283	.01033	.97753	.00878	.01025	.1826	.01888	.02739	.51503
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value												
Range												

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00960**	**.00507**	**.00527**	**.01769**	**.00522**	**.00966**
Stddev	.00152	.00004	.00009	.00115	.00011	.00021
%RSD	15.835	.85152	1.7730	6.4753	2.1922	2.1639
#1	.01067	.00504	.00521	.01851	.00530	.00952
#2	.00852	.00510	.00534	.01688	.00514	.00981
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1673.4**	**1138.2**	**34339.**	**10658.**
Stddev	.9	2.6	88.	11.
%RSD	.05383	.23269	.25753	.10260
#1	1672.8	1140.0	34276.	10666.
#2	1674.0	1136.3	34401.	10650.

Sample Name: blank Acquired: 10/29/2014 16:39:55 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00010**	**.02735**	**-.00213**	**.00278**	**.00007**	**.00006**	**.02814**	**.00070**	**-.00036**
Stddev	.00004	.00701	.00266	.00021	.00002	.00003	.00149	.00019	.00007
%RSD	36.296	25.647	125.12	7.5312	27.529	42.498	5.2772	27.705	18.155
#1	.00013	.02239	-.00401	.00293	.00006	.00008	.02920	.00083	-.00032
#2	.00008	.03231	-.00025	.00263	.00008	.00004	.02709	.00056	-.00041
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00135**	**.00130**	**.01573**	**-.01312**	**.00040**	**.00767**	**.00003**	**.00107**	**.03021**
Stddev	.00064	.00025	.00192	.01200	.00056	.00054	.00013	.00014	.00240
%RSD	47.317	19.229	12.201	91.507	140.95	7.0133	472.90	12.936	7.9299
#1	.00090	.00147	.01437	-.00463	.00000	.00729	.00012	.00097	.02852
#2	.00180	.00112	.01708	-.02161	.00079	.00805	-.00006	.00116	.03191
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00129**	**.00225**	**.0177**	**.00152**	**.00835**	**.01804**	**.00080**	**.00011**	**.00036**
Stddev	.00005	.00118	.0008	.00026	.00636	.00308	.00113	.00002	.00052
%RSD	3.9086	52.360	4.560	16.928	76.241	17.059	141.32	17.488	144.89
#1	-.00125	.00308	.0183	.00134	.00385	.02022	.00160	.00010	-.00001
#2	-.00132	.00141	.0172	.00171	.01285	.01586	.00000	.00013	.00073
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.01501**	**.00017**	**.00284**
Stddev	.00570	.00060	.00116
%RSD	37.951	362.93	40.674
#1	-.01904	.00059	.00203
#2	-.01099	-.00026	.00366
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1555.3**	**980.73**	**30749.**	**10055.**
Stddev	9.5	7.54	192.	12.
%RSD	.61188	.76895	.62584	.11698
#1	1548.6	975.39	30613.	10064.
#2	1562.0	986.06	30885.	10047.
Check ?	None	None	None	None
Value				
Range				

Sample Name: CCV-2388838 Acquired: 10/29/2014 16:42:49 Type: QC
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.53400**	**25.345**	**.49150**	**.48831**	**.48542**	**.48851**	**25.273**	**.49830**	**.49814**	**.52267**	**.50310**	**24.918**	**24.240**	**.47856**
Stddev	.01189	.461	.00071	.00075	.00781	.00698	.368	.00162	.00217	.01457	.01036	.373	.289	.00826
%RSD	2.2269	1.8189	.14361	.15444	1.6080	1.4297	1.4568	.32595	.43492	2.7874	2.0591	1.4956	1.1931	1.7265
#1	.54241	25.671	.49100	.48884	.49094	.49345	25.533	.49945	.49967	.53297	.51042	25.182	24.445	.48440
#2	.52559	25.019	.49200	.48778	.47990	.48357	25.012	.49716	.49661	.51236	.49577	24.655	24.036	.47271
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value														
Range														

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**26.093**	**.52762**	**.50517**	**24.131**	**.49672**	**.50301**	**24.70**	**.49784**	**.49373**	**25.289**	**.50210**	**.49281**	**.52331**	**.50142**
Stddev	.583	.01184	.00224	.345	.00036	.00141	.12	.00060	.00300	.380	.00327	.00607	.01422	.00627
%RSD	2.2329	2.2443	.44421	1.4314	.07253	.28126	.4814	.11954	.60773	1.5028	.65218	1.2324	2.7174	1.2507
#1	26.505	.53600	.50676	24.375	.49697	.50401	24.79	.49742	.49585	25.558	.50442	.49710	.53336	.50585
#2	25.681	.51925	.50358	23.887	.49646	.50201	24.62	.49826	.49161	25.021	.49979	.48852	.51325	.49698
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value														
Range														

Elem	V_2924	Zn2062
Units	ppm	ppm
Avg	**.51539**	**.54291**
Stddev	.01179	.01681
%RSD	2.2879	3.0970
#1	.52373	.55480
#2	.50705	.53102
Check ?	Chk Pass	Chk Pass
Value		
Range		

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1518.2**	**1124.9**	**33232.**	**10872.**
Stddev	4.7	4.7	426.	94.
%RSD	.31168	.41380	1.2832	.86047
#1	1521.5	1128.2	32931.	10806.
#2	1514.8	1121.6	33534.	10938.

Sample Name: CCB-2388837 Acquired: 10/29/2014 16:45:34 Type: QC
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00009**	**.00010**	**-.00113**	**.00103**	**.00005**	**.00011**	**.00535**	**-.00008**	**.00009**	**-.00000**	**.00011**	**.00315**
Stddev	.00051	.00554	.00315	.00002	.00005	.00003	.00144	.00003	.00003	.00010	.00007	.00185
%RSD	554.04	5802.0	277.86	1.7458	107.57	28.367	26.849	42.466	30.329	3685.1	61.048	58.810
#1	.00045	-.00382	-.00336	.00102	.00008	.00013	.00636	-.00005	.00011	-.00007	.00006	.00446
#2	-.00027	.00402	.00109	.00104	.00001	.00009	.00433	-.00010	.00007	.00006	.00016	.00184
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit												
Low Limit												

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.02496**	**.00093**	**-.00090**	**.00005**	**-.00015**	**.00327**	**.00040**	**.00214**	**.0039**	**.00097**	**.00237**	**.01766**
Stddev	.01046	.00018	.00232	.00002	.00025	.00310	.00005	.00053	.0013	.00097	.00091	.00553
%RSD	41.924	19.457	257.73	43.347	160.49	94.739	11.886	24.882	33.18	100.09	38.289	31.324
#1	-.03236	.00106	.00074	.00006	.00002	.00546	.00043	.00251	.0030	.00166	.00173	.01375
#2	-.01756	.00080	-.00255	.00003	-.00033	.00108	.00037	.00176	.0048	.00028	.00302	.02157
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit												
Low Limit												

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00021**	**.00007**	**.00074**	**.00212**	**.00004**	**-.00007**
Stddev	.00042	.00001	.00041	.00083	.00019	.00032
%RSD	198.53	9.1623	55.687	39.340	422.83	477.30
#1	.00009	.00008	.00103	.00153	-.00009	.00016
#2	-.00051	.00007	.00045	.00271	.00018	-.00029
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1674.0**	**1128.8**	**33842.**	**10780.**
Stddev	6.8	5.2	560.	41.
%RSD	.40816	.46058	1.6555	.38373
#1	1678.8	1132.5	34238.	10809.
#2	1669.2	1125.2	33445.	10750.

Sample Name: CCVL-2388843 Acquired: 10/29/2014 16:48:27 Type: QC
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00636**	**.21036**	W **.00921**	**.02038**	**.00214**	**.00199**	**.48827**	**.00188**	**.00407**	**.00444**	**.00882**
Stddev	.00048	.00564	.00139	.00009	.00000	.00006	.00438	.00011	.00004	.00046	.00005
%RSD	7.5459	2.6822	15.049	.43521	.19611	3.1684	.89782	6.1065	1.0175	10.379	.58932
#1	.00670	.20637	.00823	.02045	.00213	.00195	.48517	.00196	.00410	.00477	.00886
#2	.00602	.21435	.01019	.02032	.00214	.00203	.49137	.00180	.00404	.00412	.00879
Check ?	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value			.01500								
Range			-30.000%								

Elem	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05056**	**.46135**	**.02974**	**.20466**	**.00280**	**.00988**	**.97147**	**.00901**	**.01171**	**.1827**	**.01874**
Stddev	.00009	.01395	.00015	.00313	.00011	.00006	.00398	.00033	.00036	.0094	.00053
%RSD	.17299	3.0234	.50775	1.5301	3.8060	.62409	.40927	3.6545	3.0866	5.123	2.8049
#1	.05062	.45148	.02985	.20244	.00272	.00984	.96866	.00878	.01197	.1893	.01837
#2	.05050	.47121	.02964	.20687	.00287	.00993	.97428	.00924	.01145	.1761	.01912
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value											
Range											

Elem	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02164**	**.50689**	**.00911**	**.00496**	**.00571**	**.02028**	**.00500**	**.01099**
Stddev	.00621	.00412	.00111	.00001	.00021	.00433	.00010	.00022
%RSD	28.698	.81356	12.137	.12803	3.6090	21.337	2.0691	1.9777
#1	.01725	.50397	.00833	.00496	.00557	.01722	.00508	.01084
#2	.02603	.50981	.00989	.00497	.00586	.02334	.00493	.01115
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1685.1**	**1150.7**	**34339.**	**10774.**
Stddev	6.6	4.1	20.	21.
%RSD	.39256	.35848	.05734	.19315
#1	1689.8	1153.6	34325.	10789.
#2	1680.4	1147.8	34353.	10760.

Sample Name: lcssrm 480-209860/2- Acquired: 10/29/2014 16:51:20 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.43548**	**85.302**	**1.4006**	**1.1659**	**2.4311**	**1.2347**	**57.655**	**1.4290**	**.70077**
Stddev	.00054	.072	.0143	.0116	.0015	.0048	.107	.0106	.00523
%RSD	.12368	.08445	1.0229	.99712	.06215	.39026	.18507	.74202	.74685
#1	.43510	85.251	1.4107	1.1741	2.4300	1.2313	57.579	1.4365	.70447
#2	.43586	85.353	1.3904	1.1577	2.4321	1.2381	57.730	1.4215	.69707
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.0924**	**.66795**	**103.24**	**29.135**	**.07619**	**32.904**	**5.0968**	**.78387**	**7.2196**
Stddev	.0034	.00641	.06	.151	.00025	.205	.0060	.00745	.0238
%RSD	.30808	.95978	.05922	.51896	.32249	.62443	.11836	.94999	.32936
#1	1.0900	.66341	103.29	29.028	.07636	32.759	5.0926	.78914	7.2027
#2	1.0948	.67248	103.20	29.242	.07601	33.049	5.1011	.77861	7.2364
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.1249**	**2.4659**	**2.082**	**.92892**	**1.5120**	**19.088**	**1.1157**	**1.0473**	**3.0811**
Stddev	.0088	.0111	.033	.00410	.0086	.118	.0107	.0049	.0129
%RSD	.28156	.45049	1.580	.44166	.56997	.61852	.95980	.46815	.41998
#1	3.1311	2.4737	2.106	.93182	1.5181	19.005	1.1233	1.0439	3.0719
#2	3.1187	2.4580	2.059	.92602	1.5059	19.172	1.1081	1.0508	3.0902
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**2.5989**	F **1.1047**	F **2.8651**
Stddev	.0121	.0055	.0201
%RSD	.46602	.49519	.70163
#1	2.6075	1.1008	2.8509
#2	2.5904	1.1085	2.8793
Check ?	Chk Pass	Chk Fail	Chk Fail
High Limit		1.2900	2.7000
Low Limit		1.5300	3.9300

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1387.1**	**1112.2**	**32997.**	**11079.**
Stddev	13.1	12.5	71.	18.
%RSD	.94338	1.1280	.21504	.15985
#1	1377.9	1103.3	33047.	11067.
#2	1396.4	1121.0	32947.	11092.
Check ?	None	None	None	None
Value				
Range				

Sample Name: lcdsrm 480-209860/3- Acquired: 10/29/2014 16:54:02 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.43611**	**85.846**	**1.4289**	**1.1866**	**2.5074**	**1.2558**	**58.196**	**1.4371**	**.70975**
Stddev	.00128	.188	.0155	.0103	.0096	.0001	.201	.0091	.00235
%RSD	.29360	.21856	1.0852	.86460	.38187	.00973	.34464	.63245	.33071
#1	.43521	85.713	1.4398	1.1939	2.5141	1.2559	58.054	1.4435	.71141
#2	.43702	85.978	1.4179	1.1794	2.5006	1.2557	58.338	1.4307	.70809
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.1105**	**.66237**	**108.27**	**29.456**	**.07399**	**33.224**	**5.1896**	**.79809**	**7.2145**
Stddev	.0065	.00096	.31	.005	.00068	.059	.0124	.00647	.0046
%RSD	.58080	.14501	.28620	.01740	.92166	.17635	.23894	.81056	.06330
#1	1.1060	.66169	108.05	29.452	.07351	33.265	5.1809	.80266	7.2177
#2	1.1151	.66305	108.49	29.459	.07447	33.182	5.1984	.79351	7.2112
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.1561**	**2.4968**	**2.108**	**.93667**	**1.5789**	**26.636**	**1.1253**	**1.0795**	**3.1859**
Stddev	.0149	.0143	.019	.00837	.0255	.039	.0070	.0014	.0026
%RSD	.47303	.57418	.9042	.89359	1.6135	.14789	.62116	.13152	.08139
#1	3.1666	2.5069	2.121	.94259	1.5969	26.664	1.1303	1.0805	3.1841
#2	3.1455	2.4866	2.094	.93075	1.5609	26.608	1.1204	1.0785	3.1877
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**2.5893**	F **1.1308**	F **2.9032**
Stddev	.0249	.0059	.0236
%RSD	.96184	.51722	.81133
#1	2.6069	1.1267	2.8865
#2	2.5717	1.1349	2.9198
Check ?	Chk Pass	Chk Fail	Chk Fail
High Limit		1.2900	2.7000
Low Limit		1.5300	3.9300

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1397.1**	**1122.4**	**33496.**	**11136.**
Stddev	8.5	11.0	63.	30.
%RSD	.60992	.97863	.18844	.27021
#1	1391.1	1114.7	33451.	11114.
#2	1403.1	1130.2	33541.	11157.
Check ?	None	None	None	None
Value				
Range				

Sample Name: BLANK Acquired: 10/29/2014 16:56:45 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00037**	**.01584**	**-.00195**	**.00230**	**.00010**	**.00022**	**.00772**	**-.00018**	**.00003**
Stddev	.00034	.00182	.00105	.00019	.00001	.00000	.00206	.00008	.00011
%RSD	92.298	11.486	53.712	8.1150	10.503	.49460	26.727	41.941	327.26
#1	.00061	.01713	-.00269	.00244	.00011	.00022	.00626	-.00023	-.00004
#2	.00013	.01456	-.00121	.00217	.00009	.00022	.00917	-.00013	.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00077**	**-.00007**	**.01724**	**.00509**	**.00049**	**.00082**	**-.00008**	**-.00005**	**.00335**
Stddev	.00041	.00012	.00217	.00800	.00037	.00071	.00014	.00036	.00360
%RSD	53.237	189.43	12.607	157.17	74.552	86.685	171.28	698.62	107.38
#1	.00106	.00002	.01571	-.00057	.00023	.00132	.00002	-.00031	.00081
#2	.00048	-.00015	.01878	.01075	.00075	.00032	-.00017	.00020	.00589
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00070**	**.00086**	**-.0061**	**-.00014**	**.00236**	**.02086**	**-.00044**	**.00021**	**.00047**
Stddev	.00005	.00160	.0036	.00105	.00269	.01187	.00004	.00001	.00010
%RSD	7.3660	184.85	59.66	739.02	113.97	56.905	8.0394	4.7964	22.119
#1	-.00067	.00199	-.0035	.00060	.00427	.01247	-.00046	.00021	.00040
#2	-.00074	-.00027	-.0087	-.00088	.00046	.02926	-.00041	.00022	.00054
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.00011**	**.00008**	**.00112**
Stddev	.00196	.00012	.00125
%RSD	1788.5	155.22	112.11
#1	-.00127	.00016	.00023
#2	.00149	-.00001	.00200
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1691.4**	**1144.9**	**34855.**	**10871.**
Stddev	.2	1.7	26.	72.
%RSD	.00934	.15185	.07557	.66612
#1	1691.3	1146.2	34836.	10922.
#2	1691.5	1143.7	34873.	10820.
Check ?	None	None	None	None
Value				
Range				

Sample Name: mb 480-210126/1-a Acquired: 10/29/2014 16:59:37 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00014**	**.01503**	**-.00070**	**.00197**	**.00018**	**.00004**	**.03622**	**-.00007**	**.00018**
Stddev	.00001	.00404	.00026	.00006	.00010	.00000	.00066	.00002	.00002
%RSD	6.7294	26.867	37.610	2.9997	53.180	.08341	1.8243	36.325	9.5668
#1	.00015	.01217	-.00051	.00201	.00011	.00004	.03575	-.00009	.00016
#2	.00013	.01788	-.00089	.00193	.00025	.00004	.03668	-.00005	.00019
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00176**	**.00016**	**.00879**	**.00097**	**.00042**	**.00284**	**-.00001**	**-.00007**	**.02689**
Stddev	.00026	.00017	.00138	.00470	.00025	.00654	.00016	.00007	.00157
%RSD	14.494	103.67	15.741	483.01	59.531	230.43	2488.2	92.076	5.8397
#1	.00194	.00028	.00781	-.00235	.00024	-.00179	-.00012	-.00003	.02578
#2	.00158	.00004	.00977	.00429	.00060	.00746	.00011	-.00012	.02800
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00038**	**.00068**	**.0024**	**.00050**	**.00126**	**.00718**	**-.00074**	**.00018**	**.00051**
Stddev	.00028	.00083	.0017	.00038	.00819	.00271	.00041	.00003	.00024
%RSD	74.011	120.89	73.41	76.257	650.40	37.694	54.909	16.579	46.224
#1	.00018	.00127	.0036	.00023	.00705	.00527	-.00103	.00016	.00068
#2	.00057	.00010	.0011	.00077	-.00453	.00910	-.00045	.00020	.00035
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.00112**	**-.00022**	**.00477**
Stddev	.00264	.00011	.00054
%RSD	236.11	48.109	11.255
#1	.00298	-.00030	.00515
#2	-.00075	-.00015	.00439
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1690.6**	**1139.4**	**34510.**	**10858.**
Stddev	5.6	.8	24.	44.
%RSD	.33349	.07306	.06936	.40582
#1	1686.6	1138.8	34493.	10827.
#2	1694.6	1140.0	34526.	10890.
Check ?	None	None	None	None
Value				
Range				

Sample Name: lcs 480-210126/2-a Acquired: 10/29/2014 17:02:30 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05143**	**10.163**	**.19163**	**.20454**	**.20868**	**.19350**	**9.8495**	**.19602**	**.19597**
Stddev	.00025	.145	.00348	.00089	.00086	.00275	.2089	.00067	.00057
%RSD	.47996	1.4288	1.8152	.43326	.41172	1.4220	2.1210	.34324	.29329
#1	.05125	10.265	.18917	.20392	.20807	.19545	9.9972	.19554	.19556
#2	.05160	10.060	.19409	.20517	.20929	.19156	9.7018	.19649	.19638
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.19966**	**.20256**	**9.6630**	**9.8838**	**.19738**	**10.153**	**.20373**	**.20622**	**9.9442**
Stddev	.00046	.00186	.1168	.0997	.00093	.039	.00039	.00019	.0924
%RSD	.23138	.91927	1.2088	1.0089	.47069	.38538	.19013	.09361	.92924
#1	.19933	.20125	9.7456	9.9543	.19804	10.126	.20346	.20608	10.010
#2	.19999	.20388	9.5804	9.8133	.19672	10.181	.20401	.20635	9.8788
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.19251**	**.19743**	**9.885**	**.20256**	**.20189**	**10.182**	**.18965**	**.19999**	**.20097**
Stddev	.00224	.00185	.052	.00161	.00056	.196	.00022	.00255	.00112
%RSD	1.1658	.93946	.5216	.79397	.27581	1.9260	.11738	1.2774	.55742
#1	.19092	.19612	9.849	.20142	.20150	10.320	.18981	.20179	.20018
#2	.19410	.19874	9.922	.20370	.20229	10.043	.18949	.19818	.20176
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.20500**	**.20735**	**.20359**
Stddev	.00517	.00020	.00207
%RSD	2.5197	.09811	1.0189
#1	.20135	.20720	.20506
#2	.20865	.20749	.20212
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1572.1**	**1112.2**	**33356.**	**10761.**
Stddev	7.8	6.1	106.	128.
%RSD	.49882	.54791	.31853	1.1920
#1	1577.6	1116.5	33431.	10671.
#2	1566.5	1107.9	33281.	10852.
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-70055-e-1-a Acquired: 10/29/2014 17:05:12 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00051**	**.01537**	**-.00298**	**.00223**	**.00011**	**.00009**	**.03015**	**-.00010**	**.00015**
Stddev	.00004	.00949	.00159	.00012	.00001	.00003	.00391	.00006	.00014
%RSD	8.4429	61.741	53.527	5.3176	11.386	34.093	12.975	57.173	92.377
#1	.00054	.02208	-.00185	.00231	.00011	.00007	.02738	-.00006	.00024
#2	.00048	.00866	-.00411	.00215	.00010	.00011	.03292	-.00014	.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00044**	**.00011**	**.00383**	**-.00863**	**.00038**	**.00249**	**.00035**	**-.00015**	**.00475**
Stddev	.00022	.00044	.00007	.00003	.00002	.00423	.00005	.00004	.00203
%RSD	49.960	394.24	1.8582	.40080	4.0814	170.11	14.728	27.446	42.750
#1	.00029	.00043	.00378	-.00860	.00039	-.00050	.00039	-.00012	.00619
#2	.00060	-.00020	.00388	-.00865	.00037	.00548	.00032	-.00018	.00331
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00016**	**-.00080**	**.0105**	**.00242**	**.00410**	**.00374**	**-.00027**	**.00015**	**.00044**
Stddev	.00047	.00042	.0024	.00064	.00595	.00359	.00095	.00005	.00000
%RSD	300.11	52.187	22.73	26.416	145.17	96.172	350.73	34.927	.78219
#1	.00049	-.00110	.0121	.00288	-.00011	.00120	.00040	.00011	.00045
#2	-.00018	-.00051	.0088	.00197	.00831	.00628	-.00094	.00018	.00044
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.00007**	**.00007**	**.00712**
Stddev	.00218	.00028	.00092
%RSD	3232.9	397.48	12.852
#1	-.00147	.00026	.00777
#2	.00161	-.00013	.00647
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1681.1**	**1128.5**	**34009.**	**10790.**
Stddev	.1	.8	257.	11.
%RSD	.00628	.07022	.75533	.10040
#1	1681.1	1129.0	33828.	10783.
#2	1681.0	1127.9	34191.	10798.
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-70055-e-2-a Acquired: 10/29/2014 17:08:05 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00042**	**.18532**	**.00478**	**.12625**	**.19570**	**.00008**	**197.26**	**.00119**	**.02361**
Stddev	.00067	.00087	.00690	.00058	.00070	.00005	1.02	.00007	.00016
%RSD	159.43	.46934	144.30	.46243	.35875	67.170	.51962	6.0903	.67151
#1	.00089	.18470	.00966	.12584	.19620	.00012	196.53	.00124	.02350
#2	-.00005	.18593	-.00010	.12666	.19521	.00004	197.98	.00114	.02372
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00227**	**.00249**	**8.7401**	**3.0055**	**.00545**	**18.877**	**4.7713**	**.00035**	**81.686**
Stddev	.00035	.00004	.0116	.0083	.00029	.052	.0349	.00012	.298
%RSD	15.375	1.7458	.13306	.27458	5.3762	.27326	.73110	34.153	.36485
#1	.00251	.00252	8.7484	2.9996	.00566	18.913	4.7960	.00026	81.475
#2	.00202	.00245	8.7319	3.0113	.00524	18.840	4.7467	.00043	81.896
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02523**	**.00395**	**6.660**	**-.00177**	**.00767**	**8.0463**	**-.00029**	**.61096**	**.00258**
Stddev	.00154	.00410	.037	.00205	.01200	.0541	.00013	.00309	.00030
%RSD	6.0986	103.83	.5621	116.31	156.46	.67284	43.438	.50611	11.805
#1	.02414	.00685	6.634	-.00031	-.00082	8.0080	-.00020	.60877	.00280
#2	.02632	.00105	6.687	-.00322	.01615	8.0845	-.00038	.61315	.00237
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.00423**	**.00068**	**.10550**
Stddev	.00128	.00054	.00004
%RSD	30.137	79.833	.03384
#1	.00513	.00029	.10553
#2	.00333	.00106	.10548
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1378.7**	**1023.9**	**30763.**	**10407.**
Stddev	6.4	5.0	105.	44.
%RSD	.46616	.48394	.34213	.42695
#1	1383.3	1027.4	30689.	10438.
#2	1374.2	1020.4	30838.	10376.
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-70055-e-2-aPDS Acquired: 10/29/2014 17:10:57 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05356**	**10.485**	**.21835**	**.32672**	**.39305**	**.20227**	**200.71**	**.20906**	**.23030**
Stddev	.00049	.008	.00138	.00272	.00193	.00076	.82	.00152	.00136
%RSD	.92393	.08086	.63410	.83320	.48995	.37670	.40921	.72856	.58863
#1	.05321	10.479	.21737	.32479	.39441	.20173	200.13	.20798	.22934
#2	.05391	10.491	.21933	.32864	.39169	.20281	201.29	.21013	.23126
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.20218**	**.21872**	**18.236**	**13.020**	**.20488**	**29.073**	**4.8121**	**.20580**	**89.178**
Stddev	.00027	.00058	.088	.054	.00007	.124	.0175	.00193	.099
%RSD	.13283	.26735	.48433	.41854	.03322	.42802	.36291	.93605	.11148
#1	.20237	.21831	18.173	12.982	.20483	29.161	4.7998	.20444	89.248
#2	.20199	.21913	18.298	13.059	.20493	28.985	4.8245	.20716	89.108
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.22493**	**.21322**	**6.386**	**.20989**	**.21429**	**7.9805**	**.19973**	**.78899**	**.20912**
Stddev	.00064	.00077	.077	.00357	.00003	.0118	.00132	.00222	.00067
%RSD	.28427	.35881	1.202	1.6994	.01523	.14852	.65847	.28125	.32256
#1	.22448	.21268	6.332	.20737	.21427	7.9721	.20066	.78742	.20864
#2	.22538	.21377	6.440	.21241	.21432	7.9889	.19880	.79056	.20960
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.20919**	**.21328**	**.30447**
Stddev	.00315	.00157	.00418
%RSD	1.5077	.73802	1.3738
#1	.20696	.21216	.30151
#2	.21142	.21439	.30743
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1359.0**	**1036.5**	**30789.**	**10490.**
Stddev	8.3	8.9	68.	20.
%RSD	.61280	.85659	.21964	.19466
#1	1364.9	1042.8	30741.	10504.
#2	1353.1	1030.2	30837.	10475.
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-70055-e-2-aSD@5 Acquired: 10/29/2014 17:13:45 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00034**	**.04965**	**-.00139**	**.02473**	**.03969**	**.00007**	**39.524**	**.00016**	**.00448**
Stddev	.00006	.00717	.00101	.00070	.00020	.00004	.188	.00003	.00007
%RSD	16.281	14.441	72.831	2.8131	.49805	58.445	.47503	16.115	1.5957
#1	.00038	.04458	-.00067	.02424	.03983	.00004	39.392	.00018	.00443
#2	.00030	.05472	-.00211	.02522	.03955	.00010	39.657	.00014	.00453
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00057**	**.00091**	**1.7703**	**.58498**	**.00148**	**3.7647**	**.99052**	**.00014**	**16.200**
Stddev	.00032	.00049	.0034	.00008	.00002	.0240	.00092	.00011	.000
%RSD	56.453	53.577	.19507	.01304	1.4377	.63715	.09270	78.204	.00007
#1	.00080	.00125	1.7678	.58492	.00146	3.7817	.98987	.00021	16.200
#2	.00034	.00056	1.7727	.58503	.00149	3.7477	.99116	.00006	16.200
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00528**	**.00173**	**1.238**	**-.00073**	**.01118**	**1.5899**	**-.00126**	**.12269**	**.00094**
Stddev	.00032	.00182	.004	.00175	.00125	.0048	.00012	.00044	.00026
%RSD	6.1088	105.39	.3265	240.58	11.163	.30427	9.4209	.36009	27.301
#1	.00506	.00302	1.235	-.00197	.01207	1.5933	-.00134	.12238	.00075
#2	.00551	.00044	1.240	.00051	.01030	1.5865	-.00118	.12300	.00112
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.00013**	**.00016**	**.02115**
Stddev	.00011	.00012	.00016
%RSD	79.922	71.714	.73659
#1	.00021	.00008	.02126
#2	.00006	.00024	.02104
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1548.0**	**1087.2**	**32535.**	**10560.**
Stddev	5.8	4.2	74.	22.
%RSD	.37567	.38332	.22639	.20695
#1	1552.1	1090.1	32483.	10576.
#2	1543.9	1084.2	32588.	10545.
Check ?	None	None	None	None
Value				
Range				

Sample Name: CCV-2388838 Acquired: 10/29/2014 17:16:35 Type: QC
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.52816**	**25.558**	**.49642**	**.49572**	**.48851**	**.48574**	**24.706**	**.50117**	**.49986**	**.51417**	**.50748**	**24.496**	**24.603**	**.49001**
Stddev	.01500	.154	.00612	.00303	.00434	.00227	.023	.00019	.00072	.01096	.01043	.143	.173	.00244
%RSD	2.8400	.60162	1.2321	.61148	.88778	.46664	.09138	.03692	.14433	2.1320	2.0553	.58323	.70477	.49779
#1	.51756	25.449	.49209	.49357	.48545	.48414	24.690	.50130	.50037	.50642	.50011	24.395	24.480	.48829
#2	.53877	25.666	.50074	.49786	.49158	.48734	24.722	.50104	.49935	.52192	.51486	24.597	24.725	.49174
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value														
Range														

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**25.967**	**.52008**	**.50932**	**24.557**	**.49750**	**.50173**	**24.81**	**.50356**	**.50744**	**25.187**	**.50199**	**.49833**	**.51819**	**.49438**
Stddev	.650	.01404	.00003	.118	.00146	.00460	.02	.00200	.01968	.051	.00232	.00183	.01158	.00127
%RSD	2.5024	2.6994	.00639	.47973	.29279	.91642	.0845	.39659	3.8781	.20274	.46120	.36784	2.2355	.25776
#1	25.508	.51015	.50930	24.474	.49853	.50498	24.79	.50497	.49353	25.223	.50363	.49703	.50999	.49528
#2	26.426	.53001	.50934	24.641	.49647	.49848	24.82	.50214	.52136	25.151	.50035	.49962	.52638	.49348
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value														
Range														

Elem	V_2924	Zn2062
Units	ppm	ppm
Avg	**.50961**	**.52932**
Stddev	.01174	.01777
%RSD	2.3027	3.3568
#1	.50132	.51675
#2	.51791	.54188
Check ?	Chk Pass	Chk Pass
Value		
Range		

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1486.9**	**1094.1**	**32254.**	**10639.**
Stddev	1.1	4.6	650.	44.
%RSD	.07208	.41738	2.0160	.41145
#1	1487.7	1097.3	32714.	10670.
#2	1486.2	1090.9	31794.	10608.

Sample Name: CCB-2388837 Acquired: 10/29/2014 17:19:20 Type: QC
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00016**	**.00698**	**-.00105**	**.00106**	**.00001**	**.00015**	**.00832**	**-.00003**	**.00018**	**.00112**	**-.00008**	**.00703**
Stddev	.00011	.00627	.00166	.00016	.00002	.00017	.01257	.00009	.00011	.00001	.00001	.00578
%RSD	72.666	89.870	157.78	15.080	324.80	112.40	151.11	272.63	61.138	1.1906	6.3905	82.268
#1	-.00008	.01141	.00012	.00117	-.00001	.00027	.01721	-.00010	.00025	.00111	-.00009	.01112
#2	-.00024	.00254	-.00223	.00095	.00002	.00003	-.00057	.00003	.00010	.00113	-.00008	.00294
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit												
Low Limit												

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00129**	**.00030**	**-.00429**	**-.00006**	**-.00010**	**.00755**	**-.00001**	**.00087**	**-.0062**	**-.00023**	**.00486**	**.01861**
Stddev	.00580	.00029	.00481	.00010	.00045	.01106	.00043	.00070	.0030	.00058	.00250	.00670
%RSD	449.62	98.857	112.18	169.31	431.69	146.34	7156.8	79.870	48.77	253.99	51.339	36.008
#1	-.00281	.00009	-.00769	.00001	-.00042	.01537	.00030	.00038	-.0083	-.00064	.00663	.02335
#2	.00539	.00050	-.00089	-.00013	.00021	-.00026	-.00031	.00136	-.0040	.00018	.00310	.01387
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit												
Low Limit												

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00010**	**.00014**	**.00034**	**.00253**	**-.00009**	**.00089**
Stddev	.00028	.00018	.00016	.00010	.00026	.00073
%RSD	294.35	125.26	46.721	3.8849	298.47	81.881
#1	.00010	.00027	.00023	.00260	-.00027	.00140
#2	-.00030	.00002	.00045	.00246	.00010	.00037
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1676.0**	**1127.2**	**33982.**	**10748.**
Stddev	.6	1.3	168.	44.
%RSD	.03572	.11609	.49437	.41038
#1	1676.4	1128.1	33863.	10716.
#2	1675.6	1126.3	34101.	10779.

Sample Name: ccvl-2388843 Acquired: 10/29/2014 17:22:14 Type: QC
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00588**	**.21229**	**.01323**	**.02073**	**.00211**	**.00203**	**.49108**	**.00188**	**.00409**	**.00444**	**.00894**	**.04916**
Stddev	.00028	.00739	.00086	.00000	.00002	.00001	.00325	.00018	.00015	.00065	.00013	.00268
%RSD	4.8090	3.4834	6.5230	.02288	1.1833	.63478	.66234	9.4868	3.6691	14.723	1.4178	5.4477
#1	.00608	.21752	.01262	.02073	.00212	.00204	.49338	.00175	.00398	.00398	.00885	.05105
#2	.00568	.20706	.01384	.02073	.00209	.00202	.48878	.00200	.00420	.00490	.00903	.04726
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value												
Range												

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.48551**	**.02850**	**.20367**	**.00287**	**.01010**	**.97411**	**.00966**	**.00958**	**.1922**	**.02028**	**.03033**	**.50191**
Stddev	.01079	.00037	.00114	.00017	.00060	.00477	.00064	.00047	.0019	.00014	.00897	.01090
%RSD	2.2234	1.3040	.56015	5.9265	5.8925	.48970	6.6456	4.8993	.9931	.70489	29.577	2.1727
#1	.47788	.02876	.20287	.00299	.01052	.97748	.01011	.00991	.1935	.02018	.02398	.50962
#2	.49314	.02824	.20448	.00275	.00968	.97074	.00921	.00925	.1908	.02038	.03667	.49420
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value												
Range												

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00886**	**.00498**	**.00551**	**.01683**	**.00504**	**.01120**
Stddev	.00030	.00003	.00007	.00381	.00009	.00074
%RSD	3.4302	.50584	1.1929	22.623	1.8537	6.6349
#1	.00864	.00496	.00546	.01953	.00497	.01068
#2	.00907	.00500	.00555	.01414	.00511	.01173
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1682.5**	**1142.7**	**34349.**	**10765.**
Stddev	10.1	5.6	89.	28.
%RSD	.59986	.49253	.25943	.26416
#1	1689.6	1146.7	34412.	10745.
#2	1675.3	1138.7	34286.	10785.

Sample Name: 480-70055-e-2-b ms Acquired: 10/29/2014 17:25:05 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05135**	**10.715**	**.20968**	**.33441**	**.39650**	**.19794**	**204.79**	**.20368**	**.22690**
Stddev	.00078	.003	.00073	.00056	.00079	.00065	2.35	.00003	.00136
%RSD	1.5144	.02493	.34860	.16740	.19887	.32754	1.1481	.01436	.59889
#1	.05080	10.713	.20917	.33481	.39594	.19748	203.13	.20370	.22594
#2	.05190	10.716	.21020	.33401	.39706	.19839	206.45	.20366	.22786
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.19500**	**.20912**	**18.200**	**13.345**	**.20884**	**28.536**	**4.8802**	**.20360**	**92.617**
Stddev	.00352	.00023	.062	.022	.00075	.060	.0306	.00067	.349
%RSD	1.8027	.11193	.33976	.16757	.35816	.21075	.62791	.33107	.37636
#1	.19252	.20928	18.156	13.329	.20937	28.494	4.8586	.20313	92.371
#2	.19749	.20895	18.244	13.360	.20831	28.579	4.9019	.20408	92.864
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.22624**	**.20799**	**17.19**	**.21075**	**.20657**	**18.489**	**.19485**	**.81582**	**.20142**
Stddev	.00011	.00002	.02	.00136	.00818	.091	.00001	.00135	.00158
%RSD	.04782	.01125	.1080	.64332	3.9578	.49008	.00740	.16540	.78600
#1	.22617	.20801	17.21	.20979	.20079	18.425	.19484	.81487	.20030
#2	.22632	.20797	17.18	.21170	.21235	18.553	.19486	.81677	.20254
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.20742**	**.20425**	**.29886**
Stddev	.00209	.00143	.00492
%RSD	1.0080	.69859	1.6470
#1	.20594	.20324	.29538
#2	.20889	.20526	.30234
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1358.1**	**1040.2**	**31262.**	**10548.**
Stddev	.4	2.6	57.	25.
%RSD	.02648	.25403	.18156	.24045
#1	1357.8	1038.3	31302.	10566.
#2	1358.3	1042.0	31222.	10530.
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-70055-e-2-c msd Acquired: 10/29/2014 17:27:52 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05217**	**10.269**	**.20462**	**.32770**	**.38816**	**.19300**	**193.95**	**.20049**	**.22230**
Stddev	.00128	.005	.00616	.00457	.00140	.00042	.62	.00159	.00140
%RSD	2.4622	.05106	3.0120	1.3942	.36193	.21802	.32071	.79221	.63088
#1	.05308	10.265	.20026	.32447	.38916	.19330	193.51	.19937	.22131
#2	.05127	10.272	.20898	.33093	.38717	.19270	194.39	.20162	.22329
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.19093**	**.20484**	**17.625**	**12.894**	**.20346**	**27.950**	**4.7717**	**.20130**	**89.123**
Stddev	.00105	.00015	.012	.008	.00000	.049	.0109	.00115	.021
%RSD	.54780	.07166	.06692	.06486	.00215	.17478	.22927	.56969	.02338
#1	.19019	.20474	17.634	12.888	.20347	27.915	4.7795	.20049	89.137
#2	.19167	.20495	17.617	12.900	.20346	27.984	4.7640	.20211	89.108
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.21977**	**.20219**	**16.83**	**.20650**	**.21519**	**17.858**	**.19649**	**.78257**	**.19973**
Stddev	.00071	.00044	.04	.00123	.01117	.045	.00041	.00071	.00045
%RSD	.32215	.21818	.2260	.59751	5.1929	.25029	.20825	.09130	.22478
#1	.22027	.20188	16.80	.20563	.20729	17.890	.19678	.78207	.19941
#2	.21927	.20250	16.85	.20738	.22309	17.826	.19620	.78308	.20004
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.21128**	**.20040**	**.29296**
Stddev	.00737	.00088	.00049
%RSD	3.4905	.43861	.16736
#1	.20607	.19978	.29331
#2	.21650	.20103	.29261
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1359.4**	**1037.4**	**31162.**	**10574.**
Stddev	5.7	7.6	56.	13.
%RSD	.41694	.73195	.17948	.12574
#1	1363.5	1042.8	31123.	10564.
#2	1355.4	1032.0	31202.	10583.
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-70055-e-3-a Acquired: 10/29/2014 17:30:39 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00032**	**2.4316**	**.00071**	**.03128**	**.05924**	**.00014**	**134.79**	**.00016**	**.00093**
Stddev	.00080	.0020	.00001	.00041	.00044	.00003	.19	.00007	.00023
%RSD	247.53	.08407	1.8370	1.3068	.74885	22.602	.13759	40.434	25.355
#1	-.00089	2.4331	.00070	.03157	.05956	.00016	134.66	.00012	.00109
#2	.00024	2.4302	.00072	.03099	.05893	.00012	134.92	.00021	.00076
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00500**	**.00377**	**1.5237**	**2.4133**	**.01175**	**12.544**	**.45742**	**.00164**	**4.0214**
Stddev	.00025	.00042	.0023	.0150	.00005	.031	.00080	.00005	.0043
%RSD	4.9527	11.064	.15032	.62121	.44973	.24379	.17459	3.1453	.10816
#1	.00518	.00406	1.5221	2.4239	.01179	12.566	.45799	.00161	4.0244
#2	.00483	.00347	1.5253	2.4027	.01171	12.522	.45686	.00168	4.0183
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00540**	**.00351**	**11.90**	**-.00056**	**.00783**	**8.7355**	**-.00024**	**.49916**	**.02474**
Stddev	.00003	.00007	.01	.00026	.00286	.0164	.00045	.00045	.00021
%RSD	.62356	2.0280	.0868	45.301	36.568	.18784	186.69	.08988	.85149
#1	.00543	.00346	11.89	-.00074	.00580	8.7471	.00008	.49884	.02489
#2	.00538	.00356	11.91	-.00038	.00985	8.7239	-.00056	.49947	.02459
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00773**	**.00359**	**.01824**
Stddev	.00785	.00043	.00094
%RSD	101.58	12.021	5.1305
#1	-.01328	.00390	.01757
#2	-.00218	.00329	.01890
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1465.2**	**1053.9**	**31570.**	**10495.**
Stddev	3.9	6.8	50.	22.
%RSD	.26623	.64576	.15937	.20745
#1	1467.9	1058.7	31534.	10510.
#2	1462.4	1049.1	31605.	10479.
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-70055-e-4-a Acquired: 10/29/2014 17:33:26 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00032**	**.03271**	**.01659**	**.46942**	**.24405**	**.00008**	**198.16**	**.00017**	**.00561**
Stddev	.00091	.00382	.00230	.00108	.00021	.00002	2.05	.00007	.00006
%RSD	288.26	11.691	13.852	.22964	.08506	23.671	1.0326	41.142	1.1395
#1	-.00096	.03541	.01821	.46866	.24420	.00010	199.60	.00022	.00565
#2	.00033	.03000	.01496	.47018	.24390	.00007	196.71	.00012	.00556
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00163**	**.00205**	**31.929**	**5.3489**	**.00459**	**31.458**	**1.9772**	**.00014**	**125.46**
Stddev	.00070	.00051	.191	.0109	.00068	.059	.0029	.00017	.20
%RSD	42.885	24.755	.59811	.20303	14.827	.18853	.14590	124.18	.15719
#1	.00213	.00169	32.064	5.3412	.00508	31.500	1.9792	.00002	125.60
#2	.00114	.00240	31.794	5.3566	.00411	31.416	1.9751	.00025	125.32
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01252**	**.00476**	**3.480**	**-.00111**	**.00647**	**7.7447**	**-.00007**	**.72449**	**.00141**
Stddev	.00014	.00105	.002	.00149	.00388	.0205	.00059	.00275	.00021
%RSD	1.1514	22.095	.0552	134.51	59.912	.26494	797.75	.37903	14.995
#1	.01262	.00402	3.478	-.00216	.00373	7.7592	-.00049	.72643	.00156
#2	.01241	.00550	3.481	-.00005	.00922	7.7302	.00034	.72254	.00126
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00227**	**.00128**	**.00626**
Stddev	.00470	.00013	.00079
%RSD	207.49	10.242	12.623
#1	.00106	.00119	.00681
#2	-.00559	.00137	.00570
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1341.6**	**1007.2**	**30223.**	**10406.**
Stddev	.2	1.3	29.	32.
%RSD	.01303	.12750	.09539	.30386
#1	1341.7	1008.1	30202.	10384.
#2	1341.5	1006.2	30243.	10428.
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-70055-e-5-a Acquired: 10/29/2014 17:36:23 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00041**	**1.2608**	**-.00259**	**.20146**	**.15451**	**.00003**	**59.044**	**.00004**	**.00019**
Stddev	.00033	.0162	.00150	.00112	.00025	.00003	.386	.00013	.00013
%RSD	79.333	1.2876	58.004	.55349	.16144	114.34	.65449	379.98	68.055
#1	.00064	1.2722	-.00365	.20067	.15469	.00005	59.317	.00013	.00029
#2	.00018	1.2493	-.00153	.20225	.15434	.00001	58.771	-.00006	.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00250**	**.00157**	**.65386**	**1.8225**	**.04687**	**21.674**	**.02540**	**.00007**	**28.420**
Stddev	.00025	.00029	.00233	.0182	.00010	.044	.00023	.00080	.103
%RSD	10.151	18.352	.35700	.99961	.20609	.20108	.92251	1080.2	.36303
#1	.00232	.00136	.65551	1.8354	.04694	21.704	.02524	.00064	28.493
#2	.00268	.00177	.65221	1.8097	.04680	21.643	.02557	-.00049	28.347
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00228**	**.00226**	**9.674**	**-.00017**	**.00354**	**6.4877**	**-.00023**	**1.1363**	**.01283**
Stddev	.00053	.00020	.021	.00032	.00495	.0083	.00112	.0059	.00013
%RSD	23.460	8.9746	.2117	186.12	140.04	.12775	490.95	.52250	1.0024
#1	.00266	.00212	9.660	.00005	.00704	6.4818	.00056	1.1405	.01274
#2	.00190	.00241	9.689	-.00040	.00003	6.4935	-.00102	1.1321	.01292
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00144**	**.00317**	**.01310**
Stddev	.00259	.00027	.00021
%RSD	180.48	8.5565	1.6064
#1	-.00327	.00337	.01295
#2	.00040	.00298	.01325
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1493.1**	**1067.8**	**32305.**	**10749.**
Stddev	5.9	4.0	15.	27.
%RSD	.39227	.37263	.04663	.25564
#1	1497.2	1070.6	32316.	10729.
#2	1488.9	1064.9	32295.	10768.
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-70055-e-6-a Acquired: 10/29/2014 17:39:11 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**.06313**	**.65755**	**.09946**	**.04546**	**.00003**	**180.25**	**.01225**	**-.00388**
Stddev	.00081	.00031	.52153	.04533	.00019	.00000	1.27	.00798	.00701
%RSD	2245.8	.48411	79.315	45.573	.40803	13.599	.70456	65.191	180.78
#1	.00054	.06292	.28877	.06741	.04559	.00003	179.35	.00660	.00108
#2	-.00061	.06335	1.0263	.13151	.04533	.00004	181.14	.01789	-.00883
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00383**	**.00145**	**.05947**	**1.7074**	**.00240**	**17.138**	**7.4710**	**.05834**	**27.393**
Stddev	.00040	.00004	.00094	.0008	.00060	.106	.0297	.04884	.079
%RSD	10.530	3.0213	1.5759	.04667	24.972	.62106	.39700	83.710	.28785
#1	.00412	.00142	.06013	1.7079	.00197	17.213	7.4920	.02381	27.338
#2	.00355	.00148	.05881	1.7068	.00282	17.063	7.4501	.09287	27.449
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02556**	**.18105**	^ *****	**.00734**	**.78256**	**4.7912**	**.03696**	**.54150**	**.00169**
Stddev	.01076	.15192	-----	.00811	.66385	.0365	.03315	.00111	.00005
%RSD	42.109	83.911	-----	110.45	84.831	.76194	89.711	.20564	3.2010
#1	.01795	.07363	43.92	.01308	.31315	4.7654	.01351	.54072	.00165
#2	.03317	.28847	^ -----	.00161	1.2520	4.8170	.06040	.54229	.00173
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.11568**	**.00118**	**.03527**
Stddev	.10150	.00019	.00728
%RSD	87.749	16.021	20.633
#1	.04390	.00105	.03013
#2	.18745	.00132	.04042
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1220.1**	**912.56**	**30788.**	**10483.**
Stddev	30.2	6.79	252.	36.
%RSD	2.4743	.74460	.81723	.34763
#1	1241.5	907.75	30966.	10508.
#2	1198.8	917.36	30610.	10457.
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-70055-e-7-a Acquired: 10/29/2014 17:41:58 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00015**	**3.7931**	**-.00162**	**.00691**	**.16646**	**.00041**	**21.793**	**.00004**	**.00880**
Stddev	.00072	.0196	.00187	.00027	.00028	.00001	.006	.00002	.00017
%RSD	479.05	.51620	115.30	3.9093	.16968	2.7808	.02809	61.720	1.9553
#1	-.00066	3.7793	-.00030	.00710	.16626	.00042	21.788	.00002	.00868
#2	.00036	3.8070	-.00295	.00672	.16666	.00040	21.797	.00005	.00892
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00366**	**.00224**	**1.2727**	**1.0676**	**.00506**	**6.0359**	**.10538**	**-.00005**	**18.552**
Stddev	.00043	.00003	.0041	.0068	.00017	.0171	.00301	.00062	.076
%RSD	11.767	1.2460	.32321	.63654	3.3118	.28323	2.8550	1345.5	.40848
#1	.00397	.00226	1.2698	1.0628	.00494	6.0238	.10326	.00039	18.498
#2	.00336	.00222	1.2756	1.0724	.00518	6.0480	.10751	-.00048	18.605
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00830**	**.00747**	**.1690**	**-.00072**	**.00488**	**14.125**	**.00004**	**.07459**	**.03091**
Stddev	.00093	.00030	.0131	.00054	.00059	.053	.00053	.00026	.00010
%RSD	11.203	3.9951	7.769	74.660	12.194	.37603	1351.8	.34445	.33431
#1	.00895	.00726	.1782	-.00110	.00530	14.088	.00042	.07441	.03099
#2	.00764	.00768	.1597	-.00034	.00445	14.163	-.00034	.07477	.03084
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00555**	**.00326**	**.02620**
Stddev	.00366	.00028	.00096
%RSD	65.962	8.6063	3.6783
#1	-.00296	.00306	.02688
#2	-.00814	.00346	.02551
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1548.7**	**1087.9**	**32897.**	**10687.**
Stddev	4.8	4.2	40.	22.
%RSD	.30868	.38644	.12053	.20915
#1	1552.1	1090.9	32868.	10703.
#2	1545.3	1084.9	32925.	10671.
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-70055-e-8-a Acquired: 10/29/2014 17:44:46 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00015**	**1.2477**	**.01179**	**.04051**	**.18511**	**.00005**	**197.35**	**.00052**	**.01358**
Stddev	.00105	.0065	.00209	.00050	.00142	.00003	.69	.00023	.00009
%RSD	687.39	.52400	17.739	1.2428	.76578	58.995	.35062	44.926	.68915
#1	-.00059	1.2523	.01031	.04015	.18612	.00003	196.86	.00036	.01365
#2	.00090	1.2431	.01326	.04086	.18411	.00007	197.84	.00069	.01352
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00294**	**.00379**	**3.8306**	**1.3765**	**.00557**	**20.143**	**4.8596**	**.00106**	**72.789**
Stddev	.00004	.00027	.0179	.0047	.00038	.088	.0200	.00002	.174
%RSD	1.4649	7.0581	.46824	.34168	6.9026	.43896	.41064	1.6134	.23968
#1	.00297	.00360	3.8433	1.3731	.00530	20.206	4.8737	.00104	72.666
#2	.00291	.00398	3.8179	1.3798	.00584	20.081	4.8455	.00107	72.913
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02267**	**.00423**	**5.042**	**-.00154**	**.00335**	**8.9054**	**-.00009**	**.64549**	**.01282**
Stddev	.00009	.00247	.003	.00093	.00514	.0275	.00091	.00184	.00068
%RSD	.41457	58.533	.0591	60.099	153.26	.30898	980.05	.28478	5.3268
#1	.02274	.00598	5.040	-.00089	.00698	8.9249	-.00073	.64419	.01330
#2	.02261	.00248	5.044	-.00220	-.00028	8.8859	.00055	.64679	.01233
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.00385**	**.00288**	**.04889**
Stddev	.00059	.00006	.00119
%RSD	15.366	2.0817	2.4408
#1	.00427	.00284	.04974
#2	.00343	.00292	.04805
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1377.7**	**1019.7**	**30783.**	**10469.**
Stddev	3.0	1.0	146.	37.
%RSD	.21654	.09543	.47508	.35476
#1	1375.6	1019.0	30679.	10442.
#2	1379.8	1020.4	30886.	10495.
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-70071-c-2-a Acquired: 10/29/2014 17:47:39 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00053**	**1.2796**	**.00235**	**.00398**	**.05041**	**.00026**	**.08231**	**-.00012**	**.00709**
Stddev	.00039	.0044	.00528	.00034	.00009	.00003	.00701	.00004	.00030
%RSD	74.987	.34111	224.92	8.6726	.17986	10.695	8.5195	29.761	4.1973
#1	.00080	1.2765	.00608	.00373	.05047	.00024	.08727	-.00009	.00730
#2	.00025	1.2827	-.00139	.00422	.05035	.00028	.07735	-.00014	.00688
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00227**	**.00332**	**1.1612**	**.64769**	**.00223**	**.74415**	**.19337**	**-.00026**	**3.2128**
Stddev	.00002	.00016	.0044	.00724	.00050	.00503	.00011	.00021	.0139
%RSD	.71535	4.9101	.37930	1.1183	22.608	.67573	.05536	80.335	.43353
#1	.00228	.00320	1.1644	.65281	.00187	.74060	.19344	-.00011	3.2030
#2	.00226	.00343	1.1581	.64257	.00258	.74771	.19329	-.00041	3.2227
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00289**	**.00341**	**.4806**	**.00077**	**.00205**	**5.1812**	**.00009**	**.00100**	**.06263**
Stddev	.00081	.00108	.0046	.00116	.00275	.0105	.00013	.00002	.00106
%RSD	27.943	31.627	.9543	150.01	133.73	.20348	148.52	1.7016	1.6947
#1	.00346	.00264	.4838	.00159	.00011	5.1737	-.00000	.00099	.06188
#2	.00232	.00417	.4773	-.00005	.00400	5.1886	.00018	.00101	.06338
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00522**	**.00259**	**.01448**
Stddev	.00466	.00001	.00136
%RSD	89.358	.43040	9.3641
#1	-.00192	.00259	.01543
#2	-.00852	.00260	.01352
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1644.4**	**1125.7**	**34052.**	**10931.**
Stddev	1.7	.6	85.	20.
%RSD	.10344	.05520	.24878	.18643
#1	1643.2	1126.2	33992.	10946.
#2	1645.6	1125.3	34112.	10917.
Check ?	None	None	None	None
Value				
Range				

Sample Name: CCV-2388838 Acquired: 10/29/2014 17:50:31 Type: QC
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.52410**	**26.675**	**.50189**	**.50236**	**.50608**	**.50090**	**25.459**	**.50751**	**.50260**	**.50909**	**.50954**	**25.193**	**25.560**	**.51277**
Stddev	.00339	.169	.00343	.00019	.00352	.00463	.302	.00016	.00007	.00350	.00091	.264	.151	.00174
%RSD	.64657	.63209	.68331	.03850	.69560	.92396	1.1851	.03088	.01433	.68658	.17783	1.0476	.58905	.33837
#1	.52649	26.556	.49946	.50223	.50359	.49763	25.246	.50763	.50255	.51156	.51018	25.007	25.454	.51154
#2	.52170	26.794	.50431	.50250	.50857	.50417	25.673	.50740	.50265	.50662	.50890	25.380	25.667	.51400
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value														
Range														

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**25.727**	**.51339**	**.51961**	**25.624**	**.50551**	**.50607**	**25.19**	**.50859**	**.51557**	**26.057**	**.50879**	**.51609**	**.51450**	**.50040**
Stddev	.218	.00434	.00077	.094	.00161	.00341	.02	.00277	.00167	.161	.00148	.00308	.00233	.00384
%RSD	.84621	.84487	.14769	.36875	.31803	.67297	.0733	.54498	.32428	.61784	.29006	.59678	.45344	.76731
#1	25.881	.51646	.52015	25.557	.50437	.50367	25.21	.50663	.51676	25.943	.50774	.51392	.51615	.49768
#2	25.573	.51032	.51906	25.691	.50665	.50848	25.18	.51055	.51439	26.171	.50983	.51827	.51285	.50311
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value														
Range														

Elem	V_2924	Zn2062
Units	ppm	ppm
Avg	**.50608**	**.52164**
Stddev	.00252	.00629
%RSD	.49740	1.2056
#1	.50786	.52609
#2	.50430	.51720
Check ?	Chk Pass	Chk Pass
Value		
Range		

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1479.4**	**1086.6**	**32363.**	**10386.**
Stddev	2.0	.2	6.	73.
%RSD	.13240	.02097	.01935	.70327
#1	1478.0	1086.7	32359.	10438.
#2	1480.8	1086.4	32368.	10335.

Sample Name: CCB-2388837 Acquired: 10/29/2014 17:53:16 Type: QC
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00069**	**.01101**	**-.00092**	**.00116**	**-.00001**	**.00016**	**.01095**	**-.00000**	**.00005**	**.00035**	**.00016**	**.00618**
Stddev	.00009	.00028	.00396	.00038	.00001	.00018	.01279	.00000	.00009	.00002	.00004	.00825
%RSD	13.298	2.4990	431.12	32.942	148.55	110.06	116.88	121.35	180.00	5.9765	23.892	133.57
#1	-.00062	.01120	-.00371	.00143	.00000	.00004	.00190	-.00000	.00011	.00036	.00014	.00034
#2	-.00075	.01081	.00188	.00089	-.00001	.00029	.01999	-.00000	-.00001	.00033	.00019	.01201
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit												
Low Limit												

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00968**	**.00054**	**-.00456**	**-.00005**	**.00015**	**.01152**	**.00045**	**.00010**	**-.0050**	**-.00205**	**.00271**	**.00488**
Stddev	.01174	.00044	.00080	.00000	.00039	.00827	.00035	.00085	.0033	.00188	.00077	.00332
%RSD	121.28	81.697	17.555	6.1161	254.37	71.777	78.080	867.09	66.17	91.743	28.383	68.039
#1	-.01798	.00023	-.00513	-.00006	-.00012	.00567	.00020	.00070	-.0026	-.00337	.00325	.00723
#2	-.00138	.00085	-.00399	-.00005	.00043	.01737	.00069	-.00050	-.0073	-.00072	.00216	.00253
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit												
Low Limit												

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00062**	**.00016**	**.00068**	**.00292**	**.00005**	**.00095**
Stddev	.00039	.00009	.00016	.00563	.00003	.00156
%RSD	63.826	57.825	23.512	192.75	68.519	164.38
#1	-.00034	.00010	.00057	.00690	.00007	-.00015
#2	-.00089	.00023	.00079	-.00106	.00002	.00205
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1676.0**	**1129.3**	**34592.**	**10647.**
Stddev	.5	1.4	101.	22.
%RSD	.02953	.12246	.29070	.20414
#1	1676.4	1130.3	34663.	10663.
#2	1675.7	1128.3	34521.	10632.

Sample Name: CCVL-2388843 Acquired: 10/29/2014 17:56:10 Type: QC
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00565**	**.20592**	**.01477**	**.02097**	**.00210**	**.00213**	**.49824**	**.00203**	**.00397**	**.00419**	**.00855**	**.05074**
Stddev	.00027	.00370	.00223	.00002	.00001	.00003	.00409	.00011	.00006	.00002	.00009	.00120
%RSD	4.8362	1.7952	15.076	.10016	.45887	1.2553	.82098	5.2088	1.4381	.52024	1.0483	2.3558
#1	.00545	.20854	.01634	.02099	.00211	.00215	.50113	.00196	.00393	.00420	.00862	.05158
#2	.00584	.20331	.01319	.02096	.00210	.00211	.49534	.00211	.00401	.00417	.00849	.04989
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value												
Range												

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.48592**	**.03011**	**.19865**	**.00277**	**.01074**	**.99235**	**.00931**	**.01081**	**.1881**	**.01883**	**.02945**	**.51854**
Stddev	.00286	.00091	.00408	.00005	.00003	.02582	.00098	.00064	.0000	.00233	.00437	.01188
%RSD	.58951	3.0314	2.0527	1.8978	.27551	2.6018	10.573	5.9487	.0171	12.378	14.832	2.2903
#1	.48390	.03076	.20153	.00273	.01076	1.0106	.00861	.01126	.1881	.01719	.02636	.52693
#2	.48795	.02947	.19576	.00280	.01072	.97410	.01000	.01035	.1881	.02048	.03254	.51014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value												
Range												

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00869**	**.00507**	**.00502**	**.01683**	**.00476**	**.01123**
Stddev	.00011	.00017	.00011	.00014	.00014	.00160
%RSD	1.2539	3.4171	2.1072	.83862	2.9283	14.267
#1	.00862	.00520	.00509	.01693	.00486	.01236
#2	.00877	.00495	.00494	.01673	.00466	.01009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1681.8**	**1143.9**	**34215.**	**10653.**
Stddev	2.8	5.3	29.	149.
%RSD	.16387	.46244	.08571	1.3998
#1	1683.7	1147.6	34195.	10548.
#2	1679.8	1140.2	34236.	10759.

Sample Name: 480-70071-c-3-a Acquired: 10/29/2014 17:59:02 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00058**	**.34703**	**.00031**	**.21788**	**.09635**	**.00013**	**25.729**	**-.00007**	**.02763**
Stddev	.00024	.00194	.00130	.00099	.00064	.00002	.040	.00010	.00030
%RSD	41.888	.55988	423.83	.45480	.66012	18.793	.15638	141.00	1.0982
#1	.00075	.34566	.00123	.21717	.09590	.00011	25.758	-.00014	.02741
#2	.00041	.34841	-.00061	.21858	.09680	.00015	25.701	-.00000	.02784
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00098**	**.00230**	**.32627**	**6.1090**	**.00179**	**20.073**	**1.4358**	**-.00020**	**25.705**
Stddev	.00025	.00009	.00027	.0092	.00030	.208	.0185	.00028	.077
%RSD	25.613	4.1182	.08255	.15140	16.770	1.0343	1.2853	141.80	.29937
#1	.00115	.00223	.32608	6.1155	.00158	19.926	1.4227	-.00040	25.759
#2	.00080	.00236	.32646	6.1024	.00201	20.220	1.4488	.00000	25.650
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00412**	**.00314**	**5.023**	**-.00042**	**.00038**	**9.6428**	**-.00064**	**.17349**	**.01166**
Stddev	.00177	.00050	.010	.00095	.00596	.0039	.00112	.00026	.00050
%RSD	43.015	16.033	.1977	223.52	1565.5	.03998	174.67	.14814	4.3155
#1	.00287	.00350	5.016	.00025	-.00383	9.6456	-.00143	.17330	.01130
#2	.00538	.00279	5.030	-.00110	.00459	9.6401	.00015	.17367	.01202
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00104**	**.00072**	**.00822**
Stddev	.00105	.00013	.00026
%RSD	100.39	18.415	3.1866
#1	-.00030	.00082	.00804
#2	-.00179	.00063	.00841
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1541.0**	**1092.8**	**32683.**	**10849.**
Stddev	1.1	2.1	255.	1.
%RSD	.07083	.19511	.77924	.01193
#1	1541.7	1094.3	32864.	10849.
#2	1540.2	1091.3	32503.	10848.
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-70071-c-4-a Acquired: 10/29/2014 18:01:49 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00024**	**.18059**	**.00198**	**.00475**	**.05442**	**.00023**	**.48165**	**-.00015**	**.00440**
Stddev	.00025	.01628	.00130	.00024	.00025	.00002	.00362	.00003	.00017
%RSD	102.97	9.0163	65.562	5.1513	.46799	10.886	.75061	18.094	3.7503
#1	-.00042	.16908	.00290	.00492	.05424	.00021	.47909	-.00013	.00429
#2	-.00007	.19210	.00106	.00458	.05460	.00025	.48420	-.00017	.00452
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00030**	**.00222**	**1.1341**	**1.0846**	**.00298**	**3.3027**	**.21741**	**-.00008**	**1.4879**
Stddev	.00051	.00025	.0091	.0050	.00004	.0309	.00013	.00000	.0131
%RSD	169.96	11.419	.80453	.46179	1.2797	.93473	.06068	3.5211	.88142
#1	.00066	.00240	1.1277	1.0810	.00301	3.2808	.21751	-.00007	1.4786
#2	-.00006	.00204	1.1406	1.0881	.00296	3.3245	.21732	-.00008	1.4972
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00589**	**.00159**	**.0722**	**.00118**	**.00382**	**3.9136**	**.00029**	**.00659**	**.00449**
Stddev	.00039	.00039	.0012	.00134	.00028	.0366	.00050	.00012	.00005
%RSD	6.6781	24.715	1.638	113.50	7.4476	.93490	172.23	1.8684	1.2251
#1	.00561	.00187	.0713	.00213	.00402	3.8877	.00064	.00651	.00453
#2	.00617	.00132	.0730	.00023	.00362	3.9394	-.00006	.00668	.00445
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00161**	**.00013**	**.02892**
Stddev	.00455	.00008	.00066
%RSD	282.95	64.884	2.2700
#1	.00161	.00007	.02845
#2	-.00482	.00018	.02938
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1664.6**	**1137.4**	**34301.**	**10953.**
Stddev	5.5	2.2	93.	46.
%RSD	.32847	.19326	.27148	.41729
#1	1668.4	1139.0	34366.	10986.
#2	1660.7	1135.9	34235.	10921.
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-70069-c-2-a Acquired: 10/29/2014 18:04:40 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00103**	**.19628**	**.19838**	**8.8535**	**.38955**	**.00011**	**35.083**	**.00019**	**.05946**
Stddev	.00103	.00813	.00313	.0102	.00003	.00000	.577	.00016	.00023
%RSD	100.60	4.1416	1.5791	.11536	.00759	2.2205	1.6454	84.196	.39105
#1	-.00176	.19053	.20060	8.8463	.38957	.00011	34.675	.00008	.05930
#2	-.00030	.20203	.19617	8.8608	.38953	.00011	35.491	.00030	.05963
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.06731**	**.00479**	**6.4644**	**361.81**	**.01599**	**37.278**	**1.6655**	**.00514**	**1468.2**
Stddev	.00057	.00029	.0995	5.90	.00010	.037	.0008	.00074	26.6
%RSD	.84378	6.1272	1.5394	1.6320	.64273	.09809	.04920	14.386	1.8088
#1	.06771	.00500	6.3940	357.63	.01592	37.252	1.6661	.00462	1449.4
#2	.06691	.00459	6.5348	365.98	.01606	37.304	1.6649	.00566	1487.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.26079**	**.00750**	**33.29**	**.03228**	**.00685**	**20.757**	**.02013**	**.29672**	**.05755**
Stddev	.00093	.00133	.11	.00033	.00584	.455	.00003	.00487	.00069
%RSD	.35694	17.753	.3426	1.0297	85.229	2.1923	.13299	1.6399	1.2006
#1	.26145	.00656	33.21	.03252	.01098	20.435	.02011	.29328	.05804
#2	.26013	.00844	33.37	.03205	.00272	21.079	.02015	.30016	.05706
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00036**	**.02349**	**.14050**
Stddev	.00049	.00030	.00011
%RSD	135.37	1.2878	.07619
#1	-.00070	.02327	.14058
#2	-.00002	.02370	.14043
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1125.0**	**984.00**	**28392.**	**10480.**
Stddev	2.9	3.95	27.	164.
%RSD	.25933	.40182	.09356	1.5692
#1	1127.1	986.80	28373.	10596.
#2	1123.0	981.21	28411.	10364.
Check ?	None	None	None	None
Value				
Range				

Sample Name: BLANK Acquired: 10/29/2014 18:07:31 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00030**	**-.00097**	**-.00216**	**.01013**	**-.00001**	**.00002**	**.00865**	**-.00008**	**.00003**
Stddev	.00006	.00153	.00162	.00260	.00002	.00000	.00699	.00009	.00002
%RSD	19.878	157.90	74.750	25.657	145.25	8.8814	80.811	106.30	69.681
#1	.00034	-.00206	-.00331	.01197	.00000	.00002	.00371	-.00014	.00001
#2	.00026	.00011	-.00102	.00829	-.00002	.00002	.01359	-.00002	.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00040**	**.00010**	**.00102**	**.19619**	**.00080**	**.00059**	**-.00016**	**-.00027**	**.23035**
Stddev	.00081	.00019	.00060	.00642	.00016	.00615	.00010	.00044	.13861
%RSD	201.72	193.74	58.641	3.2713	20.456	1038.6	65.513	165.03	60.174
#1	-.00017	.00024	.00059	.19166	.00069	.00494	-.00009	.00004	.13234
#2	.00098	-.00004	.00144	.20073	.00092	-.00376	-.00023	-.00058	.32836
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00045**	**.00208**	**.0079**	**.00079**	**.00678**	**.33923**	**.00028**	**.00003**	**.00030**
Stddev	.00017	.00192	.0014	.00079	.00282	.01949	.00051	.00006	.00067
%RSD	37.302	92.328	17.29	100.13	41.558	5.7463	184.93	167.40	220.84
#1	.00033	.00072	.0089	.00023	.00479	.35302	-.00008	-.00001	.00078
#2	.00057	.00345	.0069	.00135	.00878	.32545	.00064	.00007	-.00017
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00274**	**-.00016**	**.00159**
Stddev	.00256	.00002	.00014
%RSD	93.584	14.838	8.9971
#1	-.00093	-.00014	.00169
#2	-.00455	-.00018	.00149
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1665.9**	**1123.0**	**34308.**	**10778.**
Stddev	1.0	1.2	144.	43.
%RSD	.06173	.10374	.42013	.39537
#1	1665.1	1123.8	34206.	10748.
#2	1666.6	1122.2	34410.	10808.
Check ?	None	None	None	None
Value				
Range				

Sample Name: mb 480-210057/1-a Acquired: 10/29/2014 18:10:23 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00013**	F **.22288**	**-.00435**	F **.04785**	**.00085**	**.00007**	F **.52751**	**-.00009**	**.00006**
Stddev	.00008	.00059	.00014	.00032	.00002	.00001	.00346	.00011	.00017
%RSD	61.821	.26276	3.1077	.66340	2.6976	19.494	.65560	116.87	282.50
#1	.00019	.22247	-.00425	.04807	.00087	.00008	.52506	-.00017	-.00006
#2	.00008	.22330	-.00444	.04763	.00084	.00006	.52995	-.00002	.00018
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit		.20000		.02000			.50000		
Low Limit		-.04000		-.00800			-.05000		

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00022**	**.00038**	**.01108**	**.07753**	**.00042**	**.01689**	**.00017**	**.00008**	**.08292**
Stddev	.00034	.00023	.00014	.01028	.00029	.00027	.00005	.00032	.00648
%RSD	155.96	60.836	1.2179	13.255	69.421	1.5697	30.573	406.86	7.8149
#1	-.00002	.00054	.01118	.07026	.00021	.01670	.00021	.00030	.08751
#2	.00046	.00022	.01099	.08480	.00063	.01708	.00013	-.00015	.07834
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00071**	**.00082**	F **.0130**	**-.00198**	**.00515**	**.09811**	**.00027**	**.00302**	**.00127**
Stddev	.00013	.00098	.0035	.00236	.00624	.00332	.00035	.00001	.00033
%RSD	18.201	119.32	26.91	118.94	121.16	3.3855	127.71	.31192	25.713
#1	.00062	.00013	.0105	-.00365	.00074	.10046	.00052	.00301	.00150
#2	.00080	.00151	.0154	-.00032	.00956	.09576	.00003	.00303	.00104
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			.0030						
Low Limit			-.0030						

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.00244**	**-.00008**	**.00725**
Stddev	.00455	.00007	.00118
%RSD	186.84	93.426	16.243
#1	-.00078	-.00003	.00642
#2	.00565	-.00013	.00808
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1682.5**	**1132.9**	**34495.**	**10917.**
Stddev	1.3	2.7	90.	5.
%RSD	.07856	.23751	.26235	.04158
#1	1683.5	1134.8	34431.	10920.
#2	1681.6	1131.0	34559.	10914.
Check ?	None	None	None	None
Value				
Range				

Sample Name: lcs 480-210057/2-a Acquired: 10/29/2014 18:13:15 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05172**	**9.8087**	**.19359**	**.20371**	**.20816**	**.19230**	**9.4145**	**.19506**	**.19444**
Stddev	.00031	.1084	.00189	.00065	.00189	.00083	.1579	.00055	.00033
%RSD	.60841	1.1052	.97608	.31886	.90706	.43414	1.6772	.28122	.16817
#1	.05150	9.8854	.19225	.20325	.20683	.19289	9.5261	.19467	.19421
#2	.05194	9.7321	.19492	.20417	.20950	.19171	9.3028	.19545	.19467
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.19761**	**.19920**	**9.6087**	**9.7714**	**.19460**	**10.215**	**.20575**	**.20502**	**9.7291**
Stddev	.00052	.00329	.0396	.0190	.00038	.061	.00022	.00112	.0399
%RSD	.26426	1.6496	.41180	.19410	.19410	.60032	.10621	.54487	.41014
#1	.19724	.19687	9.6367	9.7579	.19487	10.171	.20590	.20423	9.7574
#2	.19798	.20152	9.5807	9.7848	.19433	10.258	.20559	.20581	9.7009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.19455**	**.19707**	**9.845**	**.20498**	**.20202**	**9.9823**	**.18741**	**.19663**	**.20099**
Stddev	.00165	.00396	.017	.00154	.00165	.1380	.00061	.00038	.00004
%RSD	.85027	2.0095	.1743	.75251	.81629	1.3822	.32509	.19298	.01998
#1	.19572	.19987	9.833	.20389	.20319	10.080	.18698	.19690	.20097
#2	.19338	.19427	9.857	.20607	.20085	9.8847	.18784	.19637	.20102
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.20402**	**.20268**	**.20589**
Stddev	.00592	.00097	.00036
%RSD	2.8993	.47714	.17620
#1	.20821	.20199	.20563
#2	.19984	.20336	.20614
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1568.1**	**1110.2**	**33175.**	**10826.**
Stddev	1.9	3.6	189.	43.
%RSD	.12196	.32387	.56909	.39979
#1	1569.4	1112.7	33309.	10795.
#2	1566.7	1107.6	33042.	10856.
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-70068-b-1-a Acquired: 10/29/2014 18:15:58 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00050**	**.18881**	**-.00234**	**.02427**	**.01175**	**.00007**	**2.2073**	**-.00024**	**.00006**
Stddev	.00032	.00392	.00482	.00054	.00003	.00000	.0211	.00009	.00024
%RSD	63.974	2.0746	206.27	2.2259	.24207	3.0075	.95507	39.057	398.82
#1	.00027	.18604	-.00575	.02465	.01177	.00007	2.1924	-.00017	.00023
#2	.00072	.19158	.00107	.02389	.01173	.00007	2.2222	-.00030	-.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00017**	**.00041**	**.14445**	**1.0506**	**.00057**	**1.0061**	**.00645**	**.00003**	**2.7751**
Stddev	.00057	.00026	.00398	.0015	.00036	.0003	.00002	.00002	.0030
%RSD	343.22	64.154	2.7569	.14588	62.761	.03063	.31343	72.802	.10790
#1	-.00057	.00059	.14163	1.0517	.00032	1.0059	.00647	.00004	2.7730
#2	.00024	.00022	.14727	1.0495	.00083	1.0063	.00644	.00001	2.7772
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00018**	**.00176**	**.1644**	**-.00029**	**.00049**	**5.9316**	**-.00017**	**.02020**	**.00224**
Stddev	.00047	.00074	.0003	.00068	.00143	.0155	.00029	.00001	.00070
%RSD	262.27	42.252	.1611	231.65	290.03	.26097	170.11	.05380	31.294
#1	.00015	.00228	.1642	.00019	-.00052	5.9207	.00004	.02020	.00274
#2	-.00051	.00123	.1646	-.00077	.00151	5.9425	-.00038	.02021	.00175
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00250**	**.00038**	**.02452**
Stddev	.00241	.00032	.00080
%RSD	96.249	85.228	3.2587
#1	-.00421	.00015	.02508
#2	-.00080	.00061	.02395
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1657.7**	**1124.0**	**33975.**	**10788.**
Stddev	4.4	.5	64.	57.
%RSD	.26280	.04235	.18877	.52813
#1	1660.8	1124.3	34021.	10829.
#2	1654.7	1123.6	33930.	10748.
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-70068-b-3-a Acquired: 10/29/2014 18:18:48 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00039**	**.10685**	**.00222**	**.00937**	**.01570**	**.00011**	**7.0780**	**-.00005**	**.04552**
Stddev	.00057	.00022	.00160	.00001	.00009	.00006	.0564	.00016	.00012
%RSD	147.59	.20347	71.801	.15956	.59355	59.485	.79644	305.65	.26198
#1	-.00002	.10669	.00335	.00938	.01577	.00006	7.1178	-.00016	.04544
#2	.00079	.10700	.00110	.00936	.01564	.00015	7.0381	.00006	.04561
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00187**	**.00086**	**6.4134**	**1.2470**	**.00124**	**5.3341**	**8.9149**	**-.00006**	**3.0687**
Stddev	.00022	.00023	.0200	.0230	.00018	.0164	.0138	.00008	.0356
%RSD	11.535	26.582	.31195	1.8436	14.756	.30700	.15512	139.80	1.1610
#1	.00202	.00103	6.4276	1.2307	.00137	5.3457	8.9051	-.00011	3.0435
#2	.00172	.00070	6.3993	1.2632	.00111	5.3226	8.9247	-.00000	3.0939
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00593**	**.00129**	**.5106**	**-.00263**	**-.00226**	**5.7804**	**.00040**	**.05220**	**.00277**
Stddev	.00033	.00045	.0035	.00035	.00084	.0663	.00068	.00023	.00027
%RSD	5.4815	35.075	.6763	13.463	37.305	1.1466	170.27	.45007	9.7836
#1	.00616	.00161	.5082	-.00238	-.00286	5.8273	-.00008	.05236	.00258
#2	.00570	.00097	.5131	-.00288	-.00166	5.7336	.00088	.05203	.00296
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.00435**	**.00035**	**.01744**
Stddev	.00307	.00024	.00034
%RSD	70.538	68.554	1.9446
#1	.00218	.00018	.01720
#2	.00652	.00053	.01768
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1624.5**	**1121.0**	**33858.**	**10822.**
Stddev	6.5	5.4	156.	42.
%RSD	.40245	.48454	.46118	.38750
#1	1629.2	1124.8	33747.	10793.
#2	1619.9	1117.2	33968.	10852.
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-70068-b-5-a Acquired: 10/29/2014 18:21:36 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00050**	**.08546**	**-.00009**	**.00880**	**.01203**	**.00003**	**3.3141**	**-.00013**	**.00009**
Stddev	.00074	.00071	.00018	.00009	.00004	.00005	.0019	.00001	.00002
%RSD	148.42	.83065	196.60	1.0686	.36837	146.73	.05800	4.4186	19.736
#1	-.00002	.08496	-.00022	.00887	.01200	-.00000	3.3155	-.00013	.00010
#2	.00103	.08596	.00004	.00873	.01206	.00007	3.3128	-.00013	.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00052**	**.00067**	**.22409**	**1.2006**	**.00048**	**1.5635**	**.02383**	**-.00017**	**2.8680**
Stddev	.00008	.00013	.00471	.0144	.00017	.0169	.00034	.00020	.0238
%RSD	15.019	18.706	2.1035	1.1991	35.029	1.0810	1.4283	118.78	.82889
#1	.00046	.00058	.22743	1.1904	.00060	1.5516	.02407	-.00003	2.8512
#2	.00058	.00076	.22076	1.2108	.00036	1.5755	.02359	-.00031	2.8848
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00006**	**.00059**	**.3307**	**-.00108**	**-.00243**	**6.3757**	**-.00051**	**.02363**	**.00315**
Stddev	.00041	.00289	.0062	.00099	.00484	.0092	.00062	.00010	.00050
%RSD	658.73	488.37	1.887	91.877	199.32	.14447	120.80	.42615	15.796
#1	.00035	.00264	.3262	-.00038	-.00585	6.3691	-.00095	.02356	.00279
#2	-.00023	-.00145	.3351	-.00179	.00099	6.3822	-.00007	.02370	.00350
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.00153**	**.00006**	**.03961**
Stddev	.00283	.00000	.00105
%RSD	184.28	3.2662	2.6470
#1	.00353	.00006	.03887
#2	-.00046	.00007	.04035
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1653.3**	**1123.0**	**34107.**	**10850.**
Stddev	4.2	7.3	154.	4.
%RSD	.25684	.65049	.45024	.03803
#1	1656.3	1128.2	34215.	10853.
#2	1650.3	1117.8	33998.	10847.
Check ?	None	None	None	None
Value				
Range				

Sample Name: CCV-2388838 Acquired: 10/29/2014 18:24:28 Type: QC
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.52093**	**25.541**	**.49513**	**.49263**	**.49643**	**.48736**	**24.377**	**.49650**	**.49284**	**.49848**	**.49484**	**24.614**	**24.648**	**.49177**
Stddev	.00282	.041	.00043	.00114	.00056	.00047	.023	.00100	.00020	.00365	.00729	.067	.064	.00070
%RSD	.54204	.15861	.08698	.23144	.11233	.09619	.09500	.20180	.03984	.73220	1.4722	.27085	.25957	.14147
#1	.51894	25.513	.49483	.49344	.49603	.48703	24.361	.49721	.49298	.49590	.48969	24.567	24.603	.49128
#2	.52293	25.570	.49544	.49182	.49682	.48770	24.394	.49579	.49271	.50106	.49999	24.661	24.694	.49227
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value														
Range														

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**25.563**	**.51174**	**.50672**	**24.502**	**.50160**	**.49971**	**24.90**	**.50003**	**.49354**	**24.979**	**.49953**	**.49635**	**.50927**	**.49176**
Stddev	.124	.00012	.00069	.026	.00395	.00170	.00	.00943	.00396	.001	.00112	.00028	.00119	.00192
%RSD	.48668	.02335	.13596	.10499	.78677	.34104	.0045	1.8858	.80140	.00263	.22447	.05651	.23327	.38986
#1	25.475	.51182	.50721	24.520	.50439	.49850	24.90	.50669	.49074	24.978	.49873	.49616	.50843	.49311
#2	25.651	.51165	.50623	24.484	.49881	.50091	24.90	.49336	.49634	24.979	.50032	.49655	.51011	.49040
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value														
Range														

Elem	V_2924	Zn2062
Units	ppm	ppm
Avg	**.49562**	**.52147**
Stddev	.00391	.00136
%RSD	.78791	.26149
#1	.49286	.52051
#2	.49838	.52244
Check ?	Chk Pass	Chk Pass
Value		
Range		

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1499.6**	**1105.6**	**32797.**	**10641.**
Stddev	3.6	1.8	230.	4.
%RSD	.23716	.15934	.70195	.03581
#1	1497.1	1104.3	32960.	10644.
#2	1502.1	1106.8	32634.	10639.

Sample Name: CCB-2388837 Acquired: 10/29/2014 18:27:13 Type: QC
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00022**	**.00042**	**-.00025**	**.00149**	**.00003**	**.00005**	**.00226**	**-.00007**	**.00021**	**.00072**	**-.00023**	**-.00001**
Stddev	.00085	.00393	.00112	.00012	.00005	.00004	.00342	.00004	.00004	.00025	.00012	.00187
%RSD	379.35	942.02	457.68	7.7937	139.50	78.283	151.54	61.701	17.490	35.209	49.611	14702.
#1	.00038	-.00236	-.00104	.00141	.00007	.00002	-.00016	-.00004	.00018	.00054	-.00015	.00131
#2	-.00083	.00319	.00055	.00157	.00000	.00007	.00467	-.00010	.00023	.00089	-.00031	-.00134
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit												
Low Limit												

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01613**	**-.00011**	**.00285**	**.00011**	**.00028**	**.01205**	**.00025**	**.00109**	**-.0084**	**-.00026**	**.00065**	**.01409**
Stddev	.00463	.00050	.00080	.00004	.00042	.00131	.00030	.00158	.0028	.00242	.00108	.00587
%RSD	28.722	438.26	28.255	35.047	150.48	10.861	121.44	145.25	32.63	932.62	164.81	41.688
#1	.01941	.00024	.00342	.00008	-.00002	.01298	.00003	.00221	-.0104	-.00197	-.00011	.01824
#2	.01286	-.00046	.00228	.00013	.00057	.01112	.00046	-.00003	-.0065	.00145	.00142	.00994
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit												
Low Limit												

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00018**	**.00001**	**.00050**	**-.00122**	**-.00006**	**.00176**
Stddev	.00033	.00000	.00026	.00057	.00011	.00038
%RSD	182.12	5.0604	51.082	46.343	180.57	21.743
#1	-.00005	.00001	.00069	-.00082	-.00013	.00203
#2	.00041	.00001	.00032	-.00162	.00002	.00149
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1671.5**	**1124.9**	**34191.**	**10712.**
Stddev	.6	1.5	50.	2.
%RSD	.03793	.13652	.14560	.01721
#1	1671.0	1126.0	34156.	10713.
#2	1671.9	1123.8	34226.	10711.

Sample Name: CCVL-2388843 Acquired: 10/29/2014 18:30:07 Type: QC
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00667**	**.19620**	**.01528**	**.02115**	**.00211**	**.00202**	**.48803**	**.00192**	**.00384**	**.00433**	**.00900**	**.04864**
Stddev	.00106	.00448	.00402	.00058	.00000	.00002	.00339	.00024	.00006	.00025	.00031	.00001
%RSD	15.913	2.2831	26.303	2.7396	.11883	.79698	.69434	12.227	1.6918	5.6990	3.4938	.02779
#1	.00742	.19937	.01812	.02156	.00211	.00203	.48563	.00209	.00389	.00416	.00878	.04865
#2	.00592	.19303	.01244	.02074	.00211	.00201	.49043	.00176	.00380	.00451	.00922	.04863
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value												
Range												

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.49467**	**.02884**	**.19994**	**.00277**	**.01005**	**.96831**	**.00907**	**.01261**	**.1880**	**.01854**	**.02923**	**.50356**
Stddev	.00573	.00016	.00462	.00001	.00034	.00080	.00010	.00075	.0046	.00049	.00113	.00580
%RSD	1.1578	.56527	2.3102	.19751	3.4076	.08290	1.1563	5.9587	2.464	2.6538	3.8609	1.1516
#1	.49062	.02895	.19668	.00277	.00980	.96774	.00914	.01208	.1847	.01819	.03003	.49946
#2	.49872	.02872	.20321	.00278	.01029	.96888	.00899	.01314	.1913	.01889	.02843	.50766
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value												
Range												

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00870**	**.00494**	**.00549**	**.01432**	**.00475**	**.01155**
Stddev	.00010	.00009	.00021	.00275	.00009	.00100
%RSD	1.1538	1.8759	3.8319	19.233	1.8475	8.6427
#1	.00863	.00487	.00534	.01627	.00482	.01084
#2	.00877	.00500	.00564	.01238	.00469	.01225
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1681.9**	**1145.6**	**34451.**	**10723.**
Stddev	.2	1.7	116.	128.
%RSD	.01196	.14619	.33636	1.1914
#1	1682.1	1146.8	34369.	10813.
#2	1681.8	1144.4	34533.	10633.

Sample Name: 480-70068-b-6-a Acquired: 10/29/2014 18:32:59 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00075**	**.07181**	**-.00376**	**.00579**	**.00732**	**.00006**	**.99913**	**-.00010**	**.00026**
Stddev	.00020	.00340	.00001	.00008	.00003	.00002	.01113	.00006	.00003
%RSD	26.050	4.7356	.24489	1.3401	.36192	35.273	1.1137	60.235	11.504
#1	-.00061	.06940	-.00376	.00585	.00731	.00004	1.0070	-.00006	.00024
#2	-.00089	.07421	-.00375	.00574	.00734	.00007	.99126	-.00014	.00028
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00017**	**.00040**	**.25856**	**.65860**	**.00114**	**.67084**	**.00829**	**.00031**	**1.6494**
Stddev	.00051	.00010	.00017	.00610	.00041	.00442	.00015	.00014	.0032
%RSD	296.82	26.008	.06709	.92646	35.602	.65814	1.8588	44.707	.19120
#1	-.00019	.00047	.25868	.66291	.00086	.67396	.00840	.00021	1.6472
#2	.00053	.00032	.25844	.65428	.00143	.66772	.00818	.00041	1.6517
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00052**	**.00212**	**.2035**	**-.00098**	**.00153**	**5.2889**	**.00013**	**.00782**	**.00171**
Stddev	.00075	.00012	.0009	.00051	.00420	.0037	.00013	.00000	.00013
%RSD	144.90	5.5787	.4600	52.248	275.49	.07016	106.16	.03513	7.8371
#1	.00105	.00221	.2029	-.00062	-.00145	5.2863	.00003	.00782	.00180
#2	-.00001	.00204	.2042	-.00134	.00450	5.2915	.00022	.00782	.00161
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00064**	**.00018**	**.00396**
Stddev	.00667	.00029	.00107
%RSD	1050.1	158.38	27.039
#1	.00408	.00039	.00471
#2	-.00536	-.00002	.00320
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1675.6**	**1135.1**	**34557.**	**10956.**
Stddev	.4	1.5	39.	49.
%RSD	.02172	.12988	.11425	.44289
#1	1675.9	1136.1	34529.	10921.
#2	1675.4	1134.0	34585.	10990.
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-70068-b-7-a Acquired: 10/29/2014 18:35:50 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00023**	**.06190**	**-.00078**	**.01841**	**.02546**	**.00010**	**9.9054**	**.00005**	**.00010**
Stddev	.00044	.00754	.00243	.00021	.00002	.00003	.0365	.00011	.00013
%RSD	193.95	12.182	310.62	1.1400	.07114	35.586	.36824	202.45	123.90
#1	.00054	.05657	-.00250	.01826	.02548	.00012	9.9312	-.00002	.00019
#2	-.00008	.06723	.00094	.01856	.02545	.00007	9.8796	.00013	.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00032**	**.00090**	**.13455**	**1.3846**	**.00029**	**1.9561**	**.02715**	**.00024**	**3.6609**
Stddev	.00004	.00005	.00017	.0009	.00077	.0040	.00002	.00055	.0149
%RSD	13.347	5.7180	.12427	.06339	269.12	.20210	.06491	226.19	.40560
#1	.00035	.00086	.13467	1.3840	.00083	1.9589	.02717	-.00014	3.6714
#2	.00029	.00094	.13443	1.3852	-.00026	1.9534	.02714	.00063	3.6504
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00038**	**.00152**	**.6115**	**.00029**	**.00288**	**7.2901**	**-.00003**	**.04320**	**.00251**
Stddev	.00029	.00199	.0034	.00068	.00534	.0529	.00048	.00016	.00003
%RSD	76.135	130.64	.5619	229.40	185.34	.72513	1499.6	.36254	1.0861
#1	-.00058	.00293	.6091	-.00018	-.00090	7.3275	-.00037	.04309	.00249
#2	-.00017	.00012	.6140	.00077	.00666	7.2527	.00031	.04331	.00253
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.00240**	**.00026**	**.00463**
Stddev	.00103	.00012	.00085
%RSD	42.843	44.331	18.282
#1	.00313	.00035	.00523
#2	.00167	.00018	.00403
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1638.2**	**1121.4**	**33956.**	**10842.**
Stddev	7.7	3.2	2.	17.
%RSD	.46892	.28309	.00707	.15379
#1	1643.6	1123.6	33958.	10830.
#2	1632.8	1119.1	33954.	10854.
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-70068-b-8-a Acquired: 10/29/2014 18:38:39 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00024**	**.32004**	**-.00128**	**.00565**	**.01494**	**.00005**	**1.9983**	**-.00008**	**.00010**
Stddev	.00054	.00855	.00206	.00008	.00026	.00002	.0067	.00009	.00008
%RSD	228.46	2.6728	161.43	1.4499	1.7327	34.247	.33388	108.57	77.556
#1	.00015	.32609	-.00274	.00559	.01513	.00004	1.9936	-.00002	.00016
#2	-.00062	.31399	.00018	.00570	.01476	.00006	2.0030	-.00015	.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00079**	**.00085**	**.33404**	**1.1964**	**.00065**	**1.0169**	**.01088**	**-.00024**	**2.1057**
Stddev	.00041	.00003	.00132	.0034	.00006	.0146	.00013	.00032	.0040
%RSD	51.696	3.0756	.39498	.28063	9.8465	1.4359	1.2220	136.19	.18884
#1	.00108	.00087	.33498	1.1940	.00069	1.0273	.01097	-.00047	2.1029
#2	.00050	.00083	.33311	1.1988	.00060	1.0066	.01078	-.00001	2.1085
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**.00260**	**.2996**	**.00030**	**.00121**	**6.5067**	**.00016**	**.01966**	**.01498**
Stddev	.00004	.00127	.0053	.00135	.00923	.0452	.00104	.00003	.00047
%RSD	139.38	48.980	1.782	445.19	763.28	.69414	633.96	.15840	3.1364
#1	.00000	.00350	.3034	.00126	.00774	6.4748	.00090	.01964	.01531
#2	.00005	.00170	.2959	-.00065	-.00532	6.5387	-.00057	.01968	.01465
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00056**	**.00030**	**.07510**
Stddev	.00556	.00022	.00350
%RSD	987.24	74.378	4.6558
#1	.00337	.00046	.07757
#2	-.00450	.00014	.07263
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1662.2**	**1127.8**	**34254.**	**10917.**
Stddev	.5	1.2	368.	50.
%RSD	.02816	.10266	1.0745	.45341
#1	1661.9	1127.0	33994.	10952.
#2	1662.5	1128.6	34514.	10882.
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-70068-b-9-a Acquired: 10/29/2014 18:41:29 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00016**	**.16157**	**-.00289**	**.00871**	**.00995**	**.00007**	**3.4130**	**-.00012**	**.00008**
Stddev	.00040	.00293	.00280	.00014	.00009	.00002	.0056	.00004	.00004
%RSD	257.18	1.8118	96.953	1.6275	.87113	32.163	.16503	35.890	57.428
#1	-.00044	.16364	-.00091	.00881	.00989	.00006	3.4091	-.00009	.00011
#2	.00013	.15950	-.00487	.00861	.01001	.00009	3.4170	-.00015	.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00079**	**.00057**	**.34855**	**.94149**	**.00103**	**1.1017**	**.01397**	**-.00026**	**2.5160**
Stddev	.00033	.00010	.00124	.00813	.00024	.0160	.00025	.00021	.0383
%RSD	42.358	17.580	.35461	.86384	23.474	1.4510	1.7587	78.581	1.5219
#1	.00102	.00064	.34943	.93573	.00120	1.0904	.01379	-.00012	2.4889
#2	.00055	.00050	.34768	.94724	.00086	1.1130	.01414	-.00041	2.5431
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00074**	**.00084**	**.3197**	**.00044**	**.00103**	**6.2274**	**-.00109**	**.01654**	**.00537**
Stddev	.00034	.00025	.0079	.00075	.00364	.0211	.00095	.00028	.00044
%RSD	46.236	29.572	2.470	171.00	352.09	.33911	86.977	1.7181	8.1306
#1	.00098	.00066	.3141	-.00009	-.00154	6.2125	-.00042	.01634	.00568
#2	.00050	.00102	.3253	.00096	.00361	6.2424	-.00177	.01674	.00506
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00213**	**.00005**	**.00373**
Stddev	.00113	.00004	.00069
%RSD	53.102	75.339	18.418
#1	-.00294	.00003	.00324
#2	-.00133	.00008	.00421
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1658.1**	**1126.3**	**34267.**	**10788.**
Stddev	7.4	2.6	221.	26.
%RSD	.44380	.23103	.64407	.23692
#1	1663.3	1128.2	34424.	10806.
#2	1652.8	1124.5	34111.	10769.
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-70073-c-2-a Acquired: 10/29/2014 18:44:19 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00000**	**.06501**	**-.00051**	**.00519**	**.00531**	**.00006**	**4.6907**	**-.00010**	**.00010**
Stddev	.00034	.00101	.00306	.00018	.00000	.00003	.0452	.00006	.00023
%RSD	17296.	1.5500	603.99	3.4466	.02733	57.020	.96253	57.890	235.62
#1	.00024	.06429	-.00267	.00531	.00531	.00003	4.6588	-.00006	.00026
#2	-.00024	.06572	.00166	.00506	.00531	.00008	4.7226	-.00014	-.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00073**	**.00127**	**.04461**	**.83657**	**.00082**	**.77533**	**.00503**	**.00027**	**2.2142**
Stddev	.00031	.00002	.00043	.01481	.00013	.00059	.00000	.00006	.0004
%RSD	42.812	1.7266	.95902	1.7706	15.557	.07609	.05494	22.752	.01642
#1	.00051	.00128	.04431	.82609	.00091	.77491	.00503	.00022	2.2140
#2	.00095	.00125	.04492	.84704	.00073	.77575	.00503	.00031	2.2145
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00107**	**.00129**	**.2076**	**.00051**	**.00350**	**6.6114**	**-.00087**	**.02966**	**.00335**
Stddev	.00019	.00135	.0059	.00006	.00476	.0299	.00012	.00008	.00012
%RSD	17.323	105.10	2.848	11.014	136.01	.45242	14.442	.25855	3.5690
#1	.00121	.00033	.2034	.00047	.00013	6.5902	-.00078	.02960	.00343
#2	.00094	.00224	.2118	.00055	.00687	6.6325	-.00095	.02971	.00326
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00094**	**.00001**	**.00512**
Stddev	.00461	.00014	.00209
%RSD	492.99	2605.7	40.787
#1	.00233	-.00009	.00364
#2	-.00420	.00010	.00660
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1657.2**	**1127.0**	**34110.**	**10834.**
Stddev	1.1	.8	20.	30.
%RSD	.06842	.07417	.05863	.27778
#1	1656.4	1126.4	34124.	10856.
#2	1658.0	1127.6	34096.	10813.
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-70073-c-3-a Acquired: 10/29/2014 18:47:10 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00032**	**.09802**	**-.00154**	**.00567**	**.04645**	**.00030**	**2.6386**	**-.00013**	**.00049**
Stddev	.00073	.00204	.00245	.00006	.00007	.00004	.0073	.00001	.00004
%RSD	229.20	2.0765	159.54	1.0984	.15051	12.808	.27773	5.3755	9.0318
#1	-.00083	.09658	-.00327	.00562	.04640	.00033	2.6334	-.00013	.00052
#2	.00020	.09945	.00020	.00571	.04650	.00027	2.6438	-.00014	.00046
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00168**	**.00060**	**.11605**	**1.3637**	**.00118**	**2.1705**	**.00793**	**.00007**	**2.2373**
Stddev	.00014	.00006	.00044	.0199	.00015	.0030	.00002	.00013	.0013
%RSD	8.5087	10.196	.37609	1.4584	13.041	.13673	.20031	178.69	.05665
#1	.00178	.00064	.11636	1.3496	.00107	2.1684	.00792	-.00002	2.2364
#2	.00158	.00055	.11574	1.3777	.00129	2.1726	.00794	.00017	2.2382
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00137**	**.00157**	**1.567**	**.00005**	**-.00563**	**4.7213**	**-.00019**	**.03138**	**.00407**
Stddev	.00031	.00070	.004	.00045	.00189	.0070	.00040	.00016	.00011
%RSD	22.834	44.440	.2837	832.28	33.467	.14906	210.53	.51992	2.6806
#1	.00115	.00207	1.570	-.00026	-.00697	4.7263	-.00047	.03149	.00415
#2	.00159	.00108	1.564	.00037	-.00430	4.7163	.00009	.03126	.00400
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00105**	**.00025**	**.00646**
Stddev	.00436	.00046	.00095
%RSD	417.28	184.53	14.748
#1	.00204	-.00008	.00579
#2	-.00413	.00057	.00713
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1660.5**	**1130.9**	**34192.**	**10880.**
Stddev	1.8	3.9	50.	17.
%RSD	.10921	.34511	.14713	.15954
#1	1661.8	1133.7	34227.	10892.
#2	1659.3	1128.2	34156.	10867.
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-70073-c-4-a Acquired: 10/29/2014 18:50:00 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00014**	**.03871**	**-.00172**	**.00626**	**.02872**	**.00012**	**2.7768**	**-.00004**	**.00092**
Stddev	.00032	.01196	.00297	.00002	.00001	.00002	.0056	.00004	.00013
%RSD	228.83	30.887	172.58	.26180	.03131	18.885	.20128	104.13	13.582
#1	.00037	.03026	.00038	.00625	.02872	.00010	2.7807	-.00006	.00083
#2	-.00009	.04717	-.00382	.00627	.02871	.00014	2.7728	-.00001	.00101
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00031**	**.00177**	**.06264**	**1.3912**	**.00128**	**2.6943**	**.03981**	**.00012**	**2.7183**
Stddev	.00038	.00015	.00002	.0279	.00026	.0116	.00009	.00010	.0107
%RSD	120.51	8.2561	.02715	2.0063	20.642	.42990	.22698	87.936	.39477
#1	.00005	.00167	.06263	1.3715	.00146	2.7025	.03987	.00005	2.7107
#2	.00058	.00187	.06265	1.4110	.00109	2.6861	.03974	.00019	2.7259
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00095**	**.00081**	**.1878**	**-.00032**	**.00277**	**6.8803**	**.00035**	**.02093**	**.00145**
Stddev	.00067	.00048	.0126	.00054	.00241	.0124	.00016	.00011	.00016
%RSD	70.727	60.188	6.705	168.08	86.895	.18028	45.214	.54690	11.029
#1	.00143	.00115	.1967	.00006	.00447	6.8891	.00023	.02101	.00134
#2	.00048	.00046	.1789	-.00070	.00107	6.8715	.00046	.02085	.00157
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00307**	**-.00012**	**.01412**
Stddev	.00051	.00034	.00121
%RSD	16.722	292.34	8.5537
#1	-.00343	.00012	.01326
#2	-.00271	-.00036	.01497
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1645.4**	**1115.5**	**34088.**	**10803.**
Stddev	.2	.1	86.	53.
%RSD	.01454	.00733	.25095	.48724
#1	1645.2	1115.6	34149.	10765.
#2	1645.6	1115.5	34028.	10840.
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-70073-c-5-a Acquired: 10/29/2014 18:52:49 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00059**	**.23240**	**-.00115**	**.00593**	**.01716**	**.00006**	**20.240**	**-.00005**	**-.00003**
Stddev	.00015	.00037	.00036	.00039	.00001	.00003	.063	.00010	.00005
%RSD	25.439	.16060	31.075	6.4944	.05341	52.865	.31303	212.38	129.74
#1	.00070	.23267	-.00140	.00620	.01717	.00004	20.195	.00002	-.00000
#2	.00048	.23214	-.00090	.00566	.01715	.00008	20.285	-.00012	-.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00295**	**.00104**	**.15968**	**.97068**	**.00128**	**12.321**	**.02112**	**-.00009**	**3.6785**
Stddev	.00012	.00007	.00076	.02064	.00011	.013	.00030	.00032	.0055
%RSD	4.1250	6.6375	.47774	2.1263	8.7258	.10335	1.4348	341.67	.14953
#1	.00304	.00108	.16022	.95609	.00120	12.312	.02134	-.00032	3.6824
#2	.00286	.00099	.15914	.98528	.00136	12.330	.02091	.00013	3.6746
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00276**	**.00425**	**.7883**	**-.00176**	**-.00206**	**15.065**	**.00022**	**.04789**	**.00531**
Stddev	.00061	.00114	.0032	.00081	.00656	.011	.00083	.00003	.00020
%RSD	22.122	26.840	.4065	46.177	319.07	.07511	382.55	.06429	3.8065
#1	.00319	.00345	.7905	-.00119	-.00670	15.057	-.00037	.04786	.00546
#2	.00233	.00506	.7860	-.00234	.00258	15.073	.00081	.04791	.00517
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00080**	**.00111**	**.00704**
Stddev	.00053	.00010	.00089
%RSD	65.882	9.2111	12.666
#1	-.00043	.00103	.00641
#2	-.00117	.00118	.00767
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1598.1**	**1115.1**	**33756.**	**10770.**
Stddev	2.9	.0	65.	19.
%RSD	.18207	.00368	.19283	.17770
#1	1596.0	1115.1	33710.	10783.
#2	1600.1	1115.1	33802.	10756.
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-70073-a-6-a Acquired: 10/29/2014 18:55:38 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00009**	**.00853**	**-.00117**	**.00213**	**.00004**	**.00002**	**.05274**	**-.00007**	**.00013**
Stddev	.00003	.00620	.00219	.00013	.00000	.00004	.00425	.00005	.00014
%RSD	32.956	72.712	188.14	6.2499	6.5138	173.50	8.0536	75.151	108.89
#1	-.00011	.00415	-.00272	.00223	.00005	.00005	.05574	-.00003	.00003
#2	-.00007	.01292	.00039	.00204	.00004	-.00001	.04974	-.00011	.00023
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00020**	**.00016**	**.00220**	**-.01312**	**.00027**	**.00593**	**-.00025**	**.00013**	**.01250**
Stddev	.00082	.00012	.00138	.01022	.00006	.00195	.00018	.00028	.00454
%RSD	402.02	73.413	62.730	77.897	21.033	32.873	72.752	209.77	36.294
#1	.00038	.00008	.00317	-.00589	.00031	.00455	-.00037	.00033	.01570
#2	-.00079	.00025	.00122	-.02034	.00023	.00731	-.00012	-.00006	.00929
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00023**	**.00181**	**.0023**	**-.00069**	**.00107**	**.00214**	**.00088**	**.00018**	**.00035**
Stddev	.00054	.00208	.0041	.00018	.00723	.00089	.00021	.00002	.00030
%RSD	231.76	115.14	179.9	25.421	673.93	41.496	24.423	11.032	86.333
#1	.00062	.00034	.0052	-.00082	.00619	.00151	.00072	.00020	.00056
#2	-.00015	.00328	-.0006	-.00057	-.00404	.00277	.00103	.00017	.00014
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.00039**	**-.00019**	**.00726**
Stddev	.00044	.00023	.00000
%RSD	112.41	125.81	.05541
#1	.00070	-.00035	.00727
#2	.00008	-.00002	.00726
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1686.1**	**1134.0**	**34789.**	**10911.**
Stddev	3.0	4.7	5.	7.
%RSD	.18083	.41094	.01422	.06159
#1	1683.9	1130.7	34792.	10907.
#2	1688.2	1137.3	34785.	10916.
Check ?	None	None	None	None
Value				
Range				

Sample Name: CCV-2388838 Acquired: 10/29/2014 18:58:32 Type: QC
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.52057**	**25.621**	**.49760**	**.49504**	**.49605**	**.48709**	**24.481**	**.49948**	**.49725**	**.50759**	**.50817**	**24.514**	**24.757**	**.49269**
Stddev	.00268	.163	.00188	.00153	.00005	.00140	.188	.00073	.00090	.00163	.00158	.030	.030	.00101
%RSD	.51501	.63541	.37776	.30927	.01033	.28809	.76900	.14693	.18151	.32176	.31182	.12414	.12064	.20500
#1	.51867	25.736	.49627	.49612	.49608	.48808	24.614	.49999	.49661	.50643	.50705	24.535	24.736	.49198
#2	.52247	25.506	.49893	.49396	.49601	.48609	24.347	.49896	.49789	.50874	.50929	24.492	24.778	.49341
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value														
Range														

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**25.724**	**.51255**	**.50933**	**24.554**	**.50272**	**.50362**	**25.00**	**.50411**	**.50323**	**24.968**	**.50484**	**.49981**	**.51362**	**.49253**
Stddev	.048	.00135	.00198	.035	.00232	.00642	.11	.00040	.00589	.018	.00096	.00096	.00273	.01012
%RSD	.18497	.26372	.38795	.14377	.46082	1.2740	.4366	.07853	1.1705	.07380	.19022	.19231	.53090	2.0544
#1	25.690	.51160	.51072	24.579	.50108	.49908	25.08	.50439	.49907	24.981	.50416	.49913	.51169	.49968
#2	25.758	.51351	.50793	24.529	.50435	.50816	24.92	.50383	.50740	24.955	.50552	.50049	.51555	.48537
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value														
Range														

Elem	V_2924	Zn2062
Units	ppm	ppm
Avg	**.50640**	**.52056**
Stddev	.00348	.00495
%RSD	.68705	.95159
#1	.50394	.51706
#2	.50886	.52407
Check ?	Chk Pass	Chk Pass
Value		
Range		

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1494.7**	**1102.0**	**32472.**	**10664.**
Stddev	2.2	6.3	107.	38.
%RSD	.14522	.57105	.32862	.35485
#1	1493.2	1097.6	32548.	10638.
#2	1496.2	1106.5	32397.	10691.

Sample Name: CCB-2388837 Acquired: 10/29/2014 19:01:17 Type: QC
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00013**	**-.00313**	**-.00018**	**.00119**	**-.00001**	**.00006**	**.00302**	**-.00007**	**.00020**	**.00046**	**.00030**	**-.00003**
Stddev	.00007	.00197	.00344	.00016	.00000	.00002	.00066	.00012	.00004	.00005	.00052	.00072
%RSD	55.353	63.013	1895.2	13.437	34.470	41.360	21.918	170.37	20.252	11.440	173.89	2717.8
#1	.00008	-.00453	.00225	.00130	-.00001	.00004	.00256	.00001	.00017	.00050	.00066	.00048
#2	.00018	-.00174	-.00261	.00107	-.00001	.00007	.00349	-.00016	.00023	.00043	-.00007	-.00054
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit												
Low Limit												

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00662**	**-.00013**	**-.01020**	**-.00002**	**-.00022**	**.00474**	**.00017**	**.00068**	**-.0049**	**-.00100**	**.00363**	**.00643**
Stddev	.01598	.00019	.00433	.00003	.00041	.00452	.00009	.00081	.0014	.00160	.00152	.00184
%RSD	241.45	152.39	42.394	142.97	188.76	95.300	51.676	117.81	29.32	160.00	41.863	28.688
#1	.00468	.00001	-.00715	-.00005	-.00051	.00155	.00011	.00011	-.0059	-.00214	.00256	.00773
#2	-.01792	-.00026	-.01326	.00000	.00007	.00793	.00023	.00125	-.0038	.00013	.00471	.00512
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit												
Low Limit												

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00019**	**.00005**	**.00007**	**.00080**	**-.00039**	**.00057**
Stddev	.00052	.00001	.00022	.00342	.00002	.00181
%RSD	270.34	28.871	321.67	426.75	6.1288	314.32
#1	.00056	.00004	-.00009	.00322	-.00041	-.00070
#2	-.00018	.00006	.00022	-.00162	-.00037	.00185
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1688.7**	**1138.9**	**34238.**	**10723.**
Stddev	4.8	3.2	153.	54.
%RSD	.28644	.27873	.44722	.50133
#1	1685.3	1136.6	34130.	10685.
#2	1692.1	1141.1	34347.	10761.

Sample Name: CCVL-2388843 Acquired: 10/29/2014 19:04:11 Type: QC
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00590**	**.19918**	**.01383**	**.02091**	**.00210**	**.00203**	**.48679**	**.00180**	**.00395**	**.00405**	**.00904**	**.04573**
Stddev	.00012	.00029	.00443	.00063	.00003	.00007	.00357	.00013	.00014	.00025	.00028	.00205
%RSD	2.0263	.14582	32.020	3.0062	1.4902	3.2747	.73381	7.2118	3.4542	6.2742	3.1464	4.4841
#1	.00599	.19939	.01070	.02136	.00212	.00207	.48932	.00189	.00386	.00387	.00924	.04428
#2	.00582	.19898	.01697	.02047	.00207	.00198	.48426	.00171	.00405	.00422	.00884	.04718
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value												
Range												

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.47408**	**.02949**	**.20367**	**.00286**	**.01039**	**.97241**	**.00926**	**.01148**	**.1895**	**.01785**	**.02844**	**.49774**
Stddev	.00080	.00015	.00531	.00010	.00074	.00267	.00015	.00127	.0043	.00017	.00520	.01964
%RSD	.16965	.50353	2.6090	3.4242	7.1429	.27465	1.6431	11.090	2.286	.92778	18.265	3.9451
#1	.47465	.02939	.20743	.00293	.01092	.97052	.00936	.01058	.1925	.01796	.02477	.48385
#2	.47351	.02960	.19992	.00279	.00987	.97430	.00915	.01238	.1864	.01773	.03212	.51162
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value												
Range												

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00901**	**.00503**	**.00528**	**.01962**	**.00471**	**.01067**
Stddev	.00093	.00007	.00015	.00081	.00012	.00042
%RSD	10.326	1.4110	2.9064	4.1207	2.5210	3.9220
#1	.00835	.00498	.00539	.01905	.00462	.01097
#2	.00966	.00508	.00517	.02020	.00479	.01038
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1687.1**	**1148.7**	**34752.**	**10877.**
Stddev	2.6	.3	189.	13.
%RSD	.15314	.02495	.54451	.12333
#1	1685.2	1148.5	34618.	10868.
#2	1688.9	1148.9	34886.	10887.

Sample Name: 480-70073-c-7-a Acquired: 10/29/2014 19:07:04 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00009**	**.17400**	**-.00314**	**.00451**	**.05516**	**.00028**	**.72437**	**-.00005**	**.00114**
Stddev	.00018	.00060	.00176	.00007	.00009	.00005	.00802	.00021	.00021
%RSD	194.71	.34530	56.095	1.5453	.16094	18.821	1.1078	436.00	18.694
#1	.00022	.17442	-.00438	.00456	.05522	.00024	.71870	-.00020	.00129
#2	-.00003	.17357	-.00189	.00446	.05509	.00032	.73004	.00010	.00099
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00080**	**.00228**	**.09358**	**.60196**	**.00160**	**1.6417**	**.01089**	**-.00027**	**1.4640**
Stddev	.00018	.00019	.00313	.02098	.00004	.0022	.00010	.00001	.0086
%RSD	22.090	8.4465	3.3458	3.4853	2.2369	.13274	.92958	1.8872	.58957
#1	.00067	.00241	.09137	.61680	.00163	1.6432	.01097	-.00028	1.4701
#2	.00092	.00214	.09580	.58713	.00158	1.6401	.01082	-.00027	1.4579
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00171**	**.00095**	**.0477**	**-.00049**	**-.00088**	**4.1660**	**.00034**	**.00694**	**.00303**
Stddev	.00038	.00011	.0041	.00025	.00278	.0003	.00003	.00004	.00005
%RSD	22.198	11.783	8.522	51.501	316.69	.00704	9.7768	.61095	1.5897
#1	.00144	.00103	.0506	-.00067	.00109	4.1658	.00036	.00691	.00307
#2	.00198	.00087	.0448	-.00031	-.00285	4.1662	.00031	.00697	.00300
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00124**	**.00024**	**.01774**
Stddev	.00361	.00002	.00114
%RSD	292.29	10.239	6.4149
#1	-.00379	.00022	.01855
#2	.00132	.00025	.01694
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1668.9**	**1133.6**	**34331.**	**10837.**
Stddev	1.5	.6	31.	28.
%RSD	.09217	.05691	.08999	.25885
#1	1667.8	1134.0	34352.	10857.
#2	1670.0	1133.1	34309.	10818.
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-70077-b-2-a Acquired: 10/29/2014 19:09:54 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00036**	**.02338**	**.07773**	**.02557**	**.26454**	**.00004**	**35.745**	**-.00006**	**.00019**
Stddev	.00007	.00996	.00412	.00028	.00025	.00002	.048	.00007	.00008
%RSD	19.790	42.606	5.3005	1.0884	.09479	54.190	.13311	123.71	42.946
#1	-.00041	.01634	.07482	.02537	.26472	.00006	35.711	-.00011	.00025
#2	-.00031	.03042	.08065	.02577	.26436	.00002	35.779	-.00001	.00013
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00384**	**.00121**	**64.937**	**3.6100**	**.00136**	**4.3064**	**13.652**	**-.00145**	**3.1545**
Stddev	.00044	.00014	.006	.0151	.00024	.0147	.132	.00033	.0026
%RSD	11.354	11.300	.00960	.41743	17.669	.34163	.96656	22.833	.08332
#1	.00415	.00130	64.933	3.6207	.00153	4.3168	13.745	-.00122	3.1526
#2	.00353	.00111	64.942	3.5993	.00119	4.2960	13.558	-.00169	3.1564
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00267**	**.00217**	**.2202**	**-.00169**	**.00127**	**3.4673**	**.00100**	**.13044**	**.00047**
Stddev	.00054	.00142	.0051	.00106	.00334	.0034	.00055	.00019	.00031
%RSD	20.104	65.496	2.313	62.422	264.01	.09701	54.703	.14947	66.383
#1	.00305	.00116	.2166	-.00244	-.00110	3.4649	.00138	.13058	.00069
#2	.00229	.00317	.2238	-.00095	.00363	3.4697	.00061	.13031	.00025
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.00877**	**.00229**	**.00587**
Stddev	.00289	.00001	.00064
%RSD	32.970	.28044	10.871
#1	.01082	.00229	.00542
#2	.00673	.00228	.00632
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1548.0**	**1089.4**	**32927.**	**10751.**
Stddev	1.7	4.3	45.	5.
%RSD	.10821	.39624	.13723	.04203
#1	1546.9	1086.3	32895.	10755.
#2	1549.2	1092.5	32959.	10748.
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-70077-b-3-a Acquired: 10/29/2014 19:12:48 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00018**	**.13679**	**.03250**	**.05779**	**.37905**	**.00014**	**27.498**	**.00024**	**-.00016**
Stddev	.00020	.00369	.00327	.00025	.00237	.00002	.258	.00006	.00005
%RSD	113.15	2.6986	10.049	.43721	.62498	14.680	.93957	22.706	29.327
#1	-.00032	.13940	.03019	.05797	.38072	.00016	27.680	.00028	-.00020
#2	-.00004	.13418	.03481	.05761	.37737	.00013	27.315	.00020	-.00013
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00413**	**.00100**	**49.965**	**6.4055**	**.00650**	**5.4621**	**9.6321**	**-.00106**	**22.447**
Stddev	.00033	.00020	.154	.0150	.00020	.0160	.0052	.00057	.108
%RSD	8.0070	19.769	.30852	.23426	3.1263	.29271	.05401	53.716	.48038
#1	.00437	.00086	50.074	6.3948	.00664	5.4734	9.6357	-.00146	22.371
#2	.00390	.00114	49.856	6.4161	.00635	5.4508	9.6284	-.00066	22.523
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00189**	**.00127**	**.5428**	**.00016**	**-.00254**	**4.2100**	**-.00099**	**.15906**	**.00079**
Stddev	.00139	.00345	.0047	.00092	.00352	.0202	.00024	.00049	.00054
%RSD	73.811	270.47	.8573	561.39	138.93	.48023	24.040	.31112	68.406
#1	.00288	.00371	.5396	.00081	-.00004	4.2243	-.00116	.15871	.00118
#2	.00090	-.00116	.5461	-.00049	-.00503	4.1957	-.00082	.15941	.00041
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.00497**	**.00125**	**.00747**
Stddev	.00131	.00004	.00095
%RSD	26.264	3.5083	12.790
#1	.00405	.00128	.00679
#2	.00589	.00122	.00814
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1532.5**	**1084.5**	**32927.**	**10728.**
Stddev	5.2	3.8	66.	56.
%RSD	.33962	.35468	.20176	.52082
#1	1536.2	1087.2	32880.	10689.
#2	1528.9	1081.8	32974.	10768.
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-70077-b-4-a Acquired: 10/29/2014 19:15:40 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00013**	**6.1326**	**.05179**	**.02453**	**.39277**	**.00036**	**19.121**	**.00011**	**.00615**
Stddev	.00081	.0172	.00043	.00083	.00413	.00005	.143	.00020	.00009
%RSD	633.80	.28037	.83497	3.3988	1.0522	12.741	.74676	184.13	1.3925
#1	-.00045	6.1204	.05148	.02394	.39569	.00032	19.020	-.00003	.00621
#2	.00070	6.1447	.05210	.02512	.38984	.00039	19.222	.00025	.00608
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576-2	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}2	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01141**	**.01531**	**29.440**	**5.5262**	**.01553**	**5.9975**	**16.596**	**-.00046**	**36.857**
Stddev	.00082	.00021	.222	.0001	.00005	.0379	.111	.00013	.165
%RSD	7.2096	1.3438	.75432	.00169	.32524	.63141	.66899	28.601	.44812
#1	.01199	.01546	29.283	5.5261	.01556	6.0242	16.674	-.00037	36.740
#2	.01082	.01517	29.597	5.5262	.01549	5.9707	16.517	-.00056	36.973
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00957**	**.01124**	**4.578**	**-.00021**	**.00002**	**11.929**	**.00009**	**.10886**	**.08652**
Stddev	.00042	.00201	.018	.00011	.00952	.042	.00023	.00091	.00456
%RSD	4.4087	17.892	.4002	49.368	40075.	.35189	267.49	.83913	5.2756
#1	.00927	.00981	4.591	-.00014	.00675	11.959	.00025	.10821	.08329
#2	.00986	.01266	4.565	-.00029	-.00671	11.900	-.00008	.10950	.08974
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.01007**	**.00816**	**.03835**
Stddev	.00074	.00016	.00207
%RSD	7.3287	1.9389	5.4006
#1	.01059	.00827	.03982
#2	.00955	.00805	.03689
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1526.3**	**1105.4**	**32961.**	**10788.**
Stddev	3.8	2.6	224.	75.
%RSD	.25030	.23257	.67980	.69855
#1	1523.6	1103.5	32803.	10842.
#2	1529.0	1107.2	33120.	10735.
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-70077-b-4-aSD@5 Acquired: 10/29/2014 19:18:38 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00016**	**1.5272**	**.01044**	**.00508**	**.08133**	**.00012**	**3.7566**	**-.00006**	**.00125**
Stddev	.00022	.0029	.00438	.00006	.00028	.00003	.0076	.00002	.00003
%RSD	135.51	.19188	41.917	1.1658	.35013	23.347	.20363	27.751	2.4823
#1	.00031	1.5251	.01354	.00504	.08113	.00013	3.7512	-.00005	.00127
#2	.00001	1.5292	.00735	.00512	.08153	.00010	3.7620	-.00007	.00123
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00268**	**.00309**	**5.9974**	**1.2236**	**.00304**	**1.2053**	**3.4005**	**-.00032**	**7.2292**
Stddev	.00050	.00022	.0072	.0175	.00043	.0097	.0147	.00048	.0602
%RSD	18.727	7.1454	.12069	1.4321	14.240	.80204	.43098	150.74	.83343
#1	.00303	.00293	6.0025	1.2360	.00274	1.1984	3.3901	.00002	7.2718
#2	.00232	.00324	5.9923	1.2112	.00335	1.2121	3.4108	-.00066	7.1866
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00191**	**.00119**	**.8760**	**.00013**	**.00032**	**2.9800**	**-.00011**	**.02172**	**.02943**
Stddev	.00066	.00068	.0036	.00126	.00065	.0173	.00017	.00014	.00065
%RSD	34.599	57.181	.4098	998.47	203.80	.57934	148.84	.64291	2.2223
#1	.00237	.00071	.8785	.00102	-.00014	2.9922	-.00023	.02182	.02897
#2	.00144	.00167	.8735	-.00076	.00078	2.9678	.00001	.02162	.02989
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00132**	**.00184**	**.00868**
Stddev	.00091	.00021	.00142
%RSD	68.816	11.695	16.305
#1	-.00196	.00199	.00768
#2	-.00068	.00168	.00968
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1637.5**	**1136.4**	**34103.**	**10826.**
Stddev	2.7	3.1	53.	12.
%RSD	.16419	.27392	.15417	.10830
#1	1639.4	1138.6	34140.	10834.
#2	1635.6	1134.2	34066.	10818.
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-70077-b-4-a PDS Acquired: 10/29/2014 19:21:26 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05316**	**16.329**	**.25986**	**.22845**	**.56761**	**.20330**	**28.378**	**.20495**	**.21058**
Stddev	.00104	.021	.00646	.00093	.00170	.00030	.168	.00015	.00062
%RSD	1.9505	.13099	2.4860	.40599	.30031	.14522	.59128	.07191	.29235
#1	.05243	16.314	.25530	.22779	.56881	.20351	28.260	.20485	.21015
#2	.05389	16.344	.26443	.22910	.56640	.20309	28.497	.20506	.21102
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576-2	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}2	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.21376**	**.22195**	**38.650**	**15.438**	**.21194**	**16.595**	**16.389**	**.20637**	**45.660**
Stddev	.00086	.00152	.056	.045	.00096	.005	.030	.00057	.211
%RSD	.40226	.68310	.14382	.29024	.45274	.03103	.18133	.27704	.46152
#1	.21437	.22302	38.611	15.470	.21262	16.599	16.410	.20596	45.809
#2	.21316	.22088	38.689	15.407	.21126	16.591	16.368	.20677	45.511
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.21559**	**.21473**	**14.69**	**.20857**	**.20491**	**22.130**	**.19954**	**.30509**	**.30423**
Stddev	.00361	.00056	.03	.00276	.00046	.041	.00144	.00130	.00023
%RSD	1.6763	.26299	.1932	1.3257	.22231	.18414	.72373	.42548	.07602
#1	.21304	.21433	14.67	.20661	.20523	22.101	.19851	.30601	.30406
#2	.21815	.21513	14.71	.21052	.20459	22.159	.20056	.30418	.30439
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.22293**	**.22001**	**.25124**
Stddev	.00193	.00103	.00280
%RSD	.86397	.46775	1.1150
#1	.22157	.22074	.25322
#2	.22429	.21929	.24926
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1486.6**	**1099.3**	**32786.**	**10780.**
Stddev	4.7	3.6	58.	20.
%RSD	.31871	.33105	.17596	.18654
#1	1489.9	1101.9	32745.	10794.
#2	1483.2	1096.7	32827.	10766.
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-70077-b-4-b ms Acquired: 10/29/2014 19:24:19 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05044**	**18.733**	**.24677**	**.22689**	**.58147**	**.19138**	**28.596**	**.19489**	**.20289**
Stddev	.00053	.106	.00125	.00145	.00222	.00068	.203	.00128	.00047
%RSD	1.0569	.56778	.50600	.64093	.38181	.35658	.70863	.65725	.23236
#1	.05082	18.808	.24589	.22587	.58304	.19186	28.740	.19399	.20256
#2	.05006	18.658	.24765	.22792	.57990	.19089	28.453	.19580	.20323
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576-2	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}2	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.20658**	**.21161**	**38.413**	**16.130**	**.20854**	**15.860**	**16.721**	**.19970**	**46.704**
Stddev	.00303	.00316	.222	.070	.00094	.327	.188	.00239	.177
%RSD	1.4688	1.4914	.57720	.43507	.45281	2.0618	1.1258	1.1985	.37851
#1	.20873	.21384	38.570	16.180	.20921	16.092	16.854	.19800	46.829
#2	.20444	.20938	38.257	16.080	.20787	15.629	16.588	.20139	46.579
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.20632**	**.20811**	**14.53**	**.19801**	**.18884**	**26.079**	**.18994**	**.30369**	**.30232**
Stddev	.00122	.00341	.05	.00175	.01225	.150	.00254	.00115	.00674
%RSD	.59263	1.6395	.3519	.88469	6.4860	.57689	1.3384	.38007	2.2306
#1	.20545	.20570	14.49	.19677	.18017	26.185	.18814	.30450	.30709
#2	.20718	.21052	14.57	.19925	.19750	25.972	.19174	.30287	.29755
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.21330**	**.21308**	**.23221**
Stddev	.01133	.00280	.00495
%RSD	5.3117	1.3151	2.1317
#1	.20529	.21507	.23571
#2	.22131	.21110	.22871
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1472.8**	**1090.0**	**32698.**	**10715.**
Stddev	6.0	8.7	356.	50.
%RSD	.40440	.79407	1.0902	.46593
#1	1477.0	1096.1	32446.	10679.
#2	1468.5	1083.9	32950.	10750.
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-70077-b-4-c msd Acquired: 10/29/2014 19:27:11 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05014**	**20.524**	**.24732**	**.22518**	**.59378**	**.19091**	**28.273**	**.19244**	**.20111**
Stddev	.00063	.063	.00349	.00177	.00044	.00010	.105	.00097	.00044
%RSD	1.2569	.30608	1.4099	.78522	.07392	.05119	.37306	.50209	.21841
#1	.05059	20.568	.24979	.22393	.59347	.19084	28.348	.19176	.20080
#2	.04970	20.480	.24486	.22643	.59409	.19098	28.199	.19312	.20142
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576-2	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}2	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.20265**	**.21047**	**39.525**	**16.726**	**.21062**	**15.908**	**16.624**	**.19828**	**46.610**
Stddev	.00128	.00108	.020	.020	.00094	.051	.074	.00149	.152
%RSD	.63223	.51079	.05154	.12097	.44424	.32049	.44600	.74985	.32525
#1	.20175	.20971	39.511	16.712	.21128	15.871	16.572	.19723	46.717
#2	.20356	.21123	39.540	16.740	.20996	15.944	16.676	.19933	46.503
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.20587**	**.20301**	**14.42**	**.19981**	**.18971**	**28.681**	**.18966**	**.30442**	**.33627**
Stddev	.00085	.00097	.10	.00157	.00134	.099	.00095	.00007	.00188
%RSD	.41231	.47814	.7072	.78538	.70707	.34503	.50139	.02451	.55835
#1	.20527	.20369	14.35	.19871	.19066	28.751	.18898	.30448	.33760
#2	.20647	.20232	14.50	.20092	.18876	28.611	.19033	.30437	.33494
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.21216**	**.21011**	**.23526**
Stddev	.00171	.00188	.00219
%RSD	.80473	.89389	.92991
#1	.21337	.20878	.23371
#2	.21096	.21144	.23681
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1481.9**	**1098.2**	**32993.**	**10785.**
Stddev	7.2	7.4	99.	5.
%RSD	.48532	.67506	.29935	.04787
#1	1487.0	1103.5	33063.	10782.
#2	1476.8	1093.0	32923.	10789.
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-70077-b-5-a Acquired: 10/29/2014 19:30:04 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00059**	**.06383**	**.02785**	**.05700**	**.42431**	**.00013**	**24.908**	**.00016**	**-.00003**
Stddev	.00010	.00945	.00074	.00030	.00055	.00003	.002	.00011	.00009
%RSD	17.200	14.810	2.6616	.53034	.12871	26.471	.00882	68.756	334.48
#1	.00052	.07051	.02837	.05679	.42392	.00010	24.906	.00023	-.00009
#2	.00067	.05715	.02733	.05722	.42470	.00015	24.909	.00008	.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00278**	**.00156**	**35.259**	**6.2902**	**.00623**	**4.3141**	**7.8674**	**-.00081**	**14.544**
Stddev	.00016	.00008	.015	.0052	.00039	.0025	.0063	.00027	.054
%RSD	5.6454	5.1188	.04314	.08206	6.2382	.05783	.07940	33.956	.37155
#1	.00289	.00162	35.248	6.2866	.00651	4.3123	7.8719	-.00100	14.582
#2	.00267	.00150	35.270	6.2939	.00596	4.3158	7.8630	-.00061	14.506
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00230**	**.00418**	**1.180**	**.00005**	**.00220**	**4.0656**	**.00018**	**.11960**	**.00052**
Stddev	.00076	.00056	.009	.00294	.01117	.0099	.00023	.00009	.00019
%RSD	32.885	13.416	.7167	6426.1	506.89	.24259	129.04	.07497	36.949
#1	.00283	.00457	1.186	.00213	-.00569	4.0726	.00002	.11966	.00038
#2	.00176	.00378	1.174	-.00204	.01010	4.0586	.00034	.11954	.00065
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.00361**	**.00131**	**.00538**
Stddev	.00683	.00004	.00040
%RSD	189.52	3.3699	7.4848
#1	-.00123	.00127	.00567
#2	.00844	.00134	.00510
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1559.7**	**1100.6**	**33259.**	**10743.**
Stddev	.5	.2	6.	25.
%RSD	.03374	.01921	.01852	.23007
#1	1560.1	1100.8	33254.	10761.
#2	1559.3	1100.5	33263.	10726.
Check ?	None	None	None	None
Value				
Range				

Sample Name: CCV-2388838 Acquired: 10/29/2014 19:32:58 Type: QC
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.52124**	**25.677**	**.50200**	**.49132**	**.50341**	**.49259**	**24.401**	**.49710**	**.49399**	**.49720**	**.49405**	**24.864**	**24.850**	**.49856**
Stddev	.00505	.025	.00036	.00314	.00051	.00140	.336	.00168	.00051	.00141	.00384	.157	.006	.00277
%RSD	.96939	.09888	.07088	.63825	.10141	.28471	1.3754	.33701	.10250	.28259	.77630	.62970	.02600	.55531
#1	.51767	25.695	.50175	.48911	.50378	.49160	24.163	.49592	.49363	.49819	.49134	24.754	24.846	.50052
#2	.52481	25.659	.50225	.49354	.50305	.49358	24.638	.49829	.49434	.49621	.49676	24.975	24.855	.49660
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value														
Range														

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**25.575**	**.51350**	**.50726**	**24.731**	**.50575**	**.49911**	**24.99**	**.50110**	**.50317**	**25.020**	**.50194**	**.50201**	**.50823**	**.49595**
Stddev	.146	.00342	.00003	.072	.00171	.00419	.03	.00430	.00193	.172	.00195	.00034	.00386	.00403
%RSD	.56903	.66520	.00628	.29099	.33715	.84026	.1307	.85858	.38358	.68597	.38788	.06818	.76012	.81178
#1	25.472	.51108	.50724	24.782	.50455	.49615	24.97	.49806	.50181	24.899	.50331	.50225	.50549	.49310
#2	25.678	.51591	.50728	24.681	.50696	.50208	25.01	.50414	.50454	25.142	.50056	.50176	.51096	.49879
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value														
Range														

Elem	V_2924	Zn2062
Units	ppm	ppm
Avg	**.49361**	**.52032**
Stddev	.00088	.00410
%RSD	.17870	.78759
#1	.49423	.51743
#2	.49298	.52322
Check ?	Chk Pass	Chk Pass
Value		
Range		

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1500.0**	**1108.1**	**32948.**	**10638.**
Stddev	.5	2.0	104.	73.
%RSD	.03314	.18011	.31467	.68997
#1	1499.6	1109.6	33022.	10690.
#2	1500.3	1106.7	32875.	10586.

Sample Name: CCB-2388837 Acquired: 10/29/2014 19:35:42 Type: QC
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00060**	**.00120**	**-.00085**	**.00105**	**.00020**	**.00010**	**.00634**	**-.00005**	**-.00004**	**.00075**	**.00033**	**.00119**
Stddev	.00027	.00309	.00174	.00018	.00031	.00001	.00176	.00002	.00009	.00024	.00015	.00157
%RSD	44.581	257.98	205.61	17.607	150.62	8.6166	27.698	37.386	219.70	31.497	46.621	131.41
#1	.00079	.00339	-.00208	.00118	-.00001	.00011	.00759	-.00004	-.00011	.00092	.00022	.00008
#2	.00041	-.00099	.00038	.00092	.00042	.00010	.00510	-.00006	.00002	.00058	.00044	.00230
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit												
Low Limit												

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.01303**	**.00062**	**.00199**	**.00140**	**-.00002**	**.00485**	**.00043**	**.00241**	**-.0086**	**-.00151**	**-.00431**	**.00537**
Stddev	.01497	.00018	.00974	.00199	.00028	.00141	.00010	.00092	.0001	.00058	.00712	.00136
%RSD	114.93	29.638	490.11	142.52	1449.2	29.063	23.832	38.213	1.587	38.230	165.08	25.401
#1	-.00244	.00075	-.00490	-.00001	.00018	.00386	.00051	.00176	-.0085	-.00110	-.00935	.00440
#2	-.02361	.00049	.00887	.00281	-.00022	.00585	.00036	.00306	-.0087	-.00191	.00072	.00633
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit												
Low Limit												

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00077**	**.00007**	**.00053**	**-.00414**	**.00009**	**.00051**
Stddev	.00060	.00006	.00023	.00259	.00011	.00098
%RSD	78.054	90.876	42.868	62.673	129.55	190.41
#1	-.00120	.00002	.00037	-.00231	.00017	.00121
#2	-.00035	.00011	.00070	-.00598	.00001	-.00018
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1678.2**	**1132.4**	**34365.**	**10685.**
Stddev	1.2	2.2	189.	100.
%RSD	.06885	.19459	.55071	.93990
#1	1677.4	1130.9	34231.	10614.
#2	1679.0	1134.0	34498.	10756.

Sample Name: CCVL-2388843 Acquired: 10/29/2014 19:38:36 Type: QC
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00594**	**.20568**	**.01453**	**.02078**	**.00210**	**.00202**	**.49019**	**.00198**	**.00396**	**.00406**	**.00872**	**.04768**
Stddev	.00016	.01063	.00077	.00034	.00001	.00003	.00420	.00011	.00003	.00038	.00027	.00236
%RSD	2.6841	5.1688	5.2766	1.6311	.26685	1.5888	.85603	5.5178	.82005	9.3481	3.0941	4.9461
#1	.00605	.19817	.01399	.02054	.00210	.00200	.48722	.00205	.00398	.00433	.00891	.04601
#2	.00583	.21320	.01508	.02102	.00210	.00204	.49316	.00190	.00394	.00379	.00853	.04934
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value												
Range												

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.48264**	**.02950**	**.20182**	**.00295**	**.01025**	**.96910**	**.01010**	**.01164**	**.1884**	**.01837**	**.02550**	**.49862**
Stddev	.03371	.00007	.00154	.00012	.00044	.00257	.00011	.00238	.0002	.00076	.00285	.00431
%RSD	6.9853	.24032	.76320	4.1841	4.2633	.26542	1.0434	20.447	.0822	4.1422	11.157	.86417
#1	.45880	.02945	.20073	.00303	.01055	.96728	.01017	.01333	.1885	.01891	.02751	.50167
#2	.50648	.02955	.20291	.00286	.00994	.97092	.01003	.00996	.1883	.01784	.02349	.49558
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value												
Range												

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00915**	**.00497**	**.00528**	**.02000**	**.00501**	**.01026**
Stddev	.00017	.00002	.00008	.00055	.00004	.00133
%RSD	1.8260	.33466	1.4924	2.7563	.74687	12.937
#1	.00903	.00498	.00523	.01961	.00504	.01120
#2	.00927	.00496	.00534	.02039	.00499	.00932
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1684.6**	**1148.9**	**34666.**	**10778.**
Stddev	5.2	3.3	27.	14.
%RSD	.31058	.28711	.07704	.13273
#1	1688.3	1151.2	34647.	10768.
#2	1680.9	1146.6	34685.	10788.

Sample Name: 480-70077-b-6-a Acquired: 10/29/2014 19:41:28 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00034**	**.02456**	**.07317**	**.02512**	**.26225**	**.00017**	**35.722**	**.00003**	**.00000**
Stddev	.00036	.00066	.00329	.00030	.00095	.00013	.157	.00027	.00012
%RSD	105.90	2.7051	4.5026	1.1764	.36114	76.797	.43863	799.78	7263.0
#1	-.00008	.02503	.07550	.02491	.26158	.00008	35.611	.00022	-.00008
#2	-.00059	.02409	.07084	.02533	.26292	.00026	35.833	-.00016	.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00433**	**.00110**	**64.880**	**3.5886**	**.00170**	**4.2825**	**13.653**	**-.00119**	**3.1637**
Stddev	.00036	.00017	.283	.0018	.00032	.0288	.039	.00013	.0275
%RSD	8.2919	15.648	.43584	.04952	18.684	.67182	.28276	10.786	.86987
#1	.00459	.00098	64.680	3.5874	.00148	4.2622	13.626	-.00110	3.1442
#2	.00408	.00123	65.079	3.5899	.00193	4.3029	13.681	-.00128	3.1831
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00226**	**.00359**	**.2406**	**-.00117**	**-.00358**	**3.4718**	**.00044**	**.12942**	**.00076**
Stddev	.00028	.00067	.0097	.00101	.00007	.0286	.00019	.00025	.00022
%RSD	12.256	18.545	4.045	85.674	1.8446	.82364	43.271	.19646	28.628
#1	.00246	.00406	.2338	-.00046	-.00354	3.4516	.00058	.12924	.00092
#2	.00206	.00312	.2475	-.00189	-.00363	3.4920	.00031	.12960	.00061
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.00603**	**.00244**	**.00729**
Stddev	.00006	.00034	.00076
%RSD	1.0667	13.779	10.392
#1	.00608	.00221	.00783
#2	.00599	.00268	.00676
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1557.7**	**1101.4**	**33232.**	**10765.**
Stddev	.3	4.5	70.	56.
%RSD	.02101	.41151	.20969	.51640
#1	1557.9	1104.6	33282.	10805.
#2	1557.5	1098.2	33183.	10726.
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-70077-b-7-a Acquired: 10/29/2014 19:44:21 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**.25304**	**.00849**	**.05694**	**.08137**	**-.00001**	**26.366**	**.00009**	**.00032**
Stddev	.00041	.00838	.00461	.00040	.00023	.00005	.642	.00002	.00028
%RSD	2797.8	3.3103	54.293	.69815	.28280	669.28	2.4342	18.422	88.398
#1	.00030	.25896	.00523	.05722	.08154	.00003	25.913	.00008	.00012
#2	-.00027	.24712	.01174	.05666	.08121	-.00004	26.820	.00010	.00052
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00126**	**.00229**	**.27399**	**10.922**	**.00763**	**5.7377**	**.46619**	**.00048**	**12.126**
Stddev	.00079	.00004	.03443	.034	.00049	.0173	.00090	.00013	.014
%RSD	63.046	1.7032	12.567	.31029	6.4358	.30096	.19396	25.826	.11301
#1	.00182	.00232	.24964	10.898	.00729	5.7499	.46683	.00040	12.116
#2	.00070	.00226	.29833	10.946	.00798	5.7255	.46555	.00057	12.136
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00178**	**.00243**	**1.548**	**-.00216**	**.00395**	**3.7552**	**.00096**	**.51024**	**.00185**
Stddev	.00102	.00082	.007	.00200	.00292	.0882	.00051	.00242	.00002
%RSD	57.593	33.870	.4276	92.582	73.926	2.3482	53.073	.47478	1.1421
#1	.00105	.00301	1.553	-.00357	.00602	3.6929	.00132	.50853	.00186
#2	.00250	.00185	1.543	-.00075	.00189	3.8176	.00060	.51195	.00183
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00124**	**.00078**	**.00855**
Stddev	.00643	.00027	.00082
%RSD	518.92	34.849	9.5731
#1	.00331	.00059	.00913
#2	-.00578	.00098	.00798
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1573.2**	**1103.6**	**33298.**	**10720.**
Stddev	2.3	.1	173.	150.
%RSD	.14815	.00568	.51854	1.3991
#1	1574.9	1103.6	33176.	10826.
#2	1571.6	1103.7	33420.	10614.
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-70077-b-8-a Acquired: 10/29/2014 19:47:09 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**.02214**	**.02652**	**.03914**	**.46336**	**.00007**	**19.910**	**-.00008**	**.00011**
Stddev	.00009	.01176	.00175	.00039	.00107	.00001	.049	.00000	.00017
%RSD	247.06	53.136	6.5988	.99121	.22993	18.770	.24780	.45493	144.65
#1	.00011	.01382	.02776	.03886	.46411	.00008	19.875	-.00008	.00023
#2	-.00003	.03046	.02529	.03941	.46260	.00006	19.945	-.00008	-.00000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00265**	**.00072**	**28.316**	**4.5242**	**.00502**	**3.9715**	**9.8346**	**-.00100**	**8.5838**
Stddev	.00044	.00001	.054	.0350	.00044	.0115	.0275	.00017	.0106
%RSD	16.725	.73153	.18940	.77242	8.8510	.28860	.27976	17.420	.12308
#1	.00234	.00072	28.354	4.4994	.00534	3.9634	9.8540	-.00088	8.5763
#2	.00297	.00072	28.278	4.5489	.00471	3.9796	9.8151	-.00113	8.5912
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00121**	**.00252**	**.6044**	**-.00143**	**-.00038**	**3.5849**	**.00022**	**.11390**	**.00057**
Stddev	.00010	.00185	.0001	.00039	.00566	.0090	.00052	.00029	.00001
%RSD	8.3030	73.589	.0162	27.501	1477.0	.25083	231.13	.25614	1.2639
#1	.00114	.00383	.6045	-.00170	-.00438	3.5785	-.00014	.11370	.00056
#2	.00128	.00121	.6044	-.00115	.00362	3.5913	.00059	.11411	.00057
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.00668**	**.00101**	**.00506**
Stddev	.00041	.00015	.00147
%RSD	6.1535	15.107	29.104
#1	.00639	.00112	.00402
#2	.00697	.00090	.00610
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1577.8**	**1109.1**	**33384.**	**10803.**
Stddev	3.5	5.5	43.	4.
%RSD	.22420	.49625	.12980	.03929
#1	1580.3	1112.9	33353.	10800.
#2	1575.3	1105.2	33414.	10806.
Check ?	None	None	None	None
Value				
Range				

Sample Name: BLANK Acquired: 10/29/2014 19:50:08 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00046**	**.00621**	**-.00420**	**.00035**	**-.00001**	**.00004**	**.00577**	**-.00009**	**.00027**
Stddev	.00045	.00371	.00106	.00007	.00001	.00006	.00042	.00006	.00002
%RSD	97.552	59.736	25.245	20.649	74.955	140.92	7.2783	70.592	7.9720
#1	-.00014	.00359	-.00495	.00040	-.00001	.00000	.00547	-.00005	.00026
#2	-.00077	.00884	-.00345	.00029	-.00000	.00008	.00606	-.00014	.00029
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00027**	**.00030**	**.00193**	**-.01800**	**.00012**	**-.00514**	**.00055**	**.00022**	**.00440**
Stddev	.00016	.00036	.00003	.01328	.00025	.00349	.00002	.00017	.00034
%RSD	59.132	118.97	1.4556	73.755	219.12	67.928	4.2934	77.971	7.7164
#1	-.00039	.00005	.00191	-.02739	-.00006	-.00761	.00057	.00010	.00464
#2	-.00016	.00056	.00195	-.00861	.00029	-.00267	.00053	.00033	.00416
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00024**	**-.00186**	**-.0043**	**-.00188**	**.00187**	**.00084**	**-.00021**	**.00006**	**.00046**
Stddev	.00017	.00111	.0020	.00249	.00268	.00850	.00004	.00003	.00012
%RSD	69.239	59.735	45.45	132.20	143.34	1014.3	19.246	48.983	25.882
#1	-.00012	-.00108	-.0029	-.00365	.00377	.00685	-.00024	.00008	.00055
#2	-.00036	-.00265	-.0057	-.00012	-.00003	-.00517	-.00018	.00004	.00038
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.00238**	**-.00025**	**.00089**
Stddev	.00395	.00025	.00011
%RSD	165.72	102.81	11.920
#1	.00517	-.00043	.00081
#2	-.00041	-.00007	.00096
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1671.3**	**1128.1**	**34175.**	**10691.**
Stddev	2.0	1.0	2.	73.
%RSD	.12017	.08809	.00634	.67897
#1	1672.7	1127.4	34173.	10640.
#2	1669.9	1128.8	34176.	10742.
Check ?	None	None	None	None
Value				
Range				

Sample Name: mb 480-210263/1-a Acquired: 10/29/2014 19:53:00 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00050**	**.02052**	**-.00157**	**.00172**	**.00004**	**.00000**	**.02575**	**-.00021**	**.00013**
Stddev	.00018	.00498	.00215	.00027	.00001	.00001	.00048	.00005	.00014
%RSD	36.470	24.260	136.81	15.858	36.005	239.82	1.8687	24.129	107.66
#1	.00037	.02404	-.00309	.00153	.00004	.00001	.02541	-.00024	.00022
#2	.00062	.01700	-.00005	.00192	.00003	-.00000	.02609	-.00017	.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00005**	**-.00022**	**.00171**	**-.01559**	**.00068**	**-.00885**	**.00014**	**-.00033**	**.00228**
Stddev	.00006	.00023	.00166	.00694	.00018	.00167	.00006	.00006	.00072
%RSD	115.24	107.01	96.829	44.517	26.751	18.885	39.990	18.789	31.654
#1	-.00001	-.00038	.00288	-.02049	.00080	-.01003	.00018	-.00037	.00279
#2	-.00009	-.00005	.00054	-.01068	.00055	-.00767	.00010	-.00028	.00177
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00034**	**.00290**	**-.0003**	**-.00045**	**.00013**	**-.00272**	**-.00018**	**.00014**	**.00087**
Stddev	.00003	.00049	.0046	.00066	.00530	.00433	.00052	.00004	.00013
%RSD	7.7139	16.754	1322.	144.35	3924.5	159.24	294.33	25.588	15.535
#1	-.00036	.00324	-.0036	.00001	-.00361	-.00578	-.00054	.00012	.00077
#2	-.00032	.00256	.0029	-.00092	.00388	.00034	.00019	.00017	.00096
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00092**	**-.00009**	**.00128**
Stddev	.00288	.00010	.00073
%RSD	311.72	114.00	57.152
#1	.00111	-.00016	.00076
#2	-.00296	-.00002	.00180
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1692.5**	**1141.8**	**34898.**	**10906.**
Stddev	3.7	2.3	375.	20.
%RSD	.21915	.20461	1.0744	.18537
#1	1695.1	1143.5	35163.	10891.
#2	1689.9	1140.2	34633.	10920.
Check ?	None	None	None	None
Value				
Range				

Sample Name: lcs 480-210263/2-a Acquired: 10/29/2014 19:55:53 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05149**	**10.132**	**.19219**	**.20312**	**.20707**	**.19495**	**9.7748**	**.19586**	**.19639**
Stddev	.00089	.038	.00488	.00129	.00134	.00087	.0368	.00004	.00076
%RSD	1.7208	.37271	2.5403	.63660	.64923	.44841	.37688	.01911	.38616
#1	.05086	10.158	.19564	.20404	.20802	.19434	9.8009	.19584	.19692
#2	.05211	10.105	.18874	.20221	.20612	.19557	9.7488	.19589	.19585
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.19900**	**.20061**	**9.7563**	**9.8273**	**.19846**	**10.162**	**.20468**	**.20600**	**9.8876**
Stddev	.00052	.00119	.0210	.0486	.00032	.003	.00033	.00108	.0373
%RSD	.26037	.59533	.21480	.49466	.16060	.03167	.16250	.52416	.37690
#1	.19936	.20145	9.7415	9.7929	.19823	10.160	.20491	.20523	9.8612
#2	.19863	.19976	9.7711	9.8617	.19868	10.165	.20444	.20676	9.9139
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.19616**	**.19604**	**10.03**	**.20438**	**.20233**	**10.206**	**.19030**	**.19872**	**.20034**
Stddev	.00154	.00001	.01	.00068	.00072	.005	.00020	.00095	.00034
%RSD	.78375	.00726	.1084	.33073	.35750	.05337	.10617	.47673	.17122
#1	.19725	.19605	10.02	.20486	.20182	10.202	.19044	.19805	.20010
#2	.19507	.19603	10.03	.20390	.20285	10.210	.19016	.19939	.20058
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.20691**	**.20756**	**.20169**
Stddev	.00637	.00087	.00017
%RSD	3.0769	.41841	.08244
#1	.21141	.20817	.20181
#2	.20241	.20695	.20157
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1580.2**	**1122.7**	**33555.**	**10835.**
Stddev	.4	4.0	146.	45.
%RSD	.02838	.35805	.43651	.41842
#1	1579.9	1125.5	33452.	10803.
#2	1580.5	1119.8	33659.	10867.
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-70009-b-1-a Acquired: 10/29/2014 19:58:36 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00050**	**.01062**	**.00157**	**1.0974**	**.30163**	**.00004**	**172.79**	**.00007**	**.00019**
Stddev	.00067	.00220	.00022	.0023	.00464	.00002	2.43	.00003	.00001
%RSD	134.47	20.752	13.890	.20672	1.5390	41.171	1.4091	40.678	3.9099
#1	-.00002	.00906	.00173	1.0958	.30491	.00005	171.07	.00005	.00019
#2	-.00098	.01218	.00142	1.0990	.29834	.00003	174.51	.00009	.00018
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00113**	**.00184**	**5.3143**	**6.5860**	**.03692**	**25.532**	**.57993**	**.00155**	**166.13**
Stddev	.00074	.00022	.0497	.0081	.00031	.381	.00897	.00024	.03
%RSD	65.275	12.045	.93569	.12267	.83347	1.4932	1.5472	15.654	.01907
#1	.00061	.00200	5.2791	6.5803	.03713	25.802	.58628	.00173	166.16
#2	.00166	.00169	5.3494	6.5917	.03670	25.263	.57359	.00138	166.11
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00150**	**.00409**	**9.039**	**-.00580**	**.00170**	**8.8069**	**.00048**	**1.7467**	**.00088**
Stddev	.00019	.00209	.003	.00113	.00547	.0068	.00051	.0054	.00018
%RSD	12.918	51.103	.0291	19.424	320.63	.07674	104.76	.30695	20.554
#1	.00164	.00261	9.041	-.00501	.00557	8.8021	.00013	1.7505	.00075
#2	.00136	.00557	9.037	-.00660	-.00216	8.8117	.00084	1.7430	.00101
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.00449**	**.00012**	**.00024**
Stddev	.00168	.00030	.00144
%RSD	37.472	247.67	594.03
#1	.00330	-.00009	-.00078
#2	.00568	.00033	.00126
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1366.6**	**1030.9**	**30567.**	**10436.**
Stddev	2.7	.9	377.	81.
%RSD	.19967	.08514	1.2345	.77320
#1	1368.5	1031.5	30301.	10493.
#2	1364.7	1030.3	30834.	10379.
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-70009-b-1-aPDS Acquired: 10/29/2014 20:01:33 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00012**	**.00186**	**.00075**	**.21299**	**.05981**	**.00004**	**34.445**	**-.00008**	**-.00014**
Stddev	.00084	.00698	.00319	.00032	.00021	.00001	.230	.00003	.00034
%RSD	704.41	374.53	423.85	.15193	.35684	22.963	.66808	35.868	247.44
#1	.00048	.00679	.00301	.21322	.05966	.00004	34.607	-.00010	-.00038
#2	-.00071	-.00307	-.00150	.21276	.05996	.00003	34.282	-.00006	.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00043**	**.00037**	**1.0727**	**1.2664**	**.00816**	**5.0047**	**.11650**	**.00016**	**32.358**
Stddev	.00079	.00012	.0016	.0080	.00012	.0258	.00015	.00036	.013
%RSD	183.14	33.102	.14920	.62803	1.4607	.51599	.13056	220.27	.04130
#1	.00099	.00045	1.0739	1.2720	.00824	4.9864	.11639	-.00009	32.368
#2	-.00013	.00028	1.0716	1.2608	.00807	5.0230	.11661	.00042	32.349
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00037**	**.00390**	**1.674**	**-.00210**	**.00539**	**1.7259**	**.00028**	**.34805**	**.00045**
Stddev	.00055	.00110	.010	.00300	.00430	.0034	.00003	.00006	.00014
%RSD	146.09	28.076	.5863	142.40	79.776	.19517	10.355	.01745	31.131
#1	-.00001	.00313	1.681	-.00422	.00235	1.7282	.00026	.34801	.00035
#2	.00076	.00468	1.667	.00001	.00843	1.7235	.00030	.34809	.00055
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.00542**	**.00010**	**.00103**
Stddev	.00168	.00018	.00124
%RSD	30.974	191.39	120.49
#1	.00660	.00022	.00190
#2	.00423	-.00003	.00015
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1548.9**	**1104.7**	**33079.**	**10654.**
Stddev	2.9	2.4	114.	42.
%RSD	.18410	.21827	.34475	.39228
#1	1546.9	1103.0	33160.	10624.
#2	1550.9	1106.4	32999.	10684.
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-70009-b-1-aSD@5 Acquired: 10/29/2014 20:04:21 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05509**	**10.501**	**.21859**	**1.2537**	**.48634**	**.20774**	**176.87**	**.20772**	**.20510**
Stddev	.00047	.247	.00078	.0019	.01063	.00432	4.70	.00071	.00044
%RSD	.84706	2.3527	.35722	.15039	2.1864	2.0773	2.6565	.34303	.21276
#1	.05542	10.676	.21804	1.2523	.49385	.21079	180.20	.20722	.20541
#2	.05476	10.326	.21914	1.2550	.47882	.20469	173.55	.20822	.20479
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.19883**	**.21098**	**15.337**	**16.694**	**.23908**	**34.659**	**.74967**	**.20396**	**171.87**
Stddev	.00005	.00028	.361	.281	.00523	.026	.00157	.00125	3.87
%RSD	.02491	.13425	2.3547	1.6805	2.1888	.07616	.20926	.61503	2.2513
#1	.19887	.21118	15.592	16.892	.24278	34.678	.74856	.20484	174.60
#2	.19880	.21078	15.081	16.496	.23538	34.640	.75078	.20307	169.13
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.20768**	**.21165**	**19.19**	**.20879**	**.21450**	**19.129**	**.20170**	**1.8946**	**.20397**
Stddev	.00064	.00271	.00	.00251	.00409	.450	.00132	.0376	.00074
%RSD	.30740	1.2814	.0227	1.2013	1.9068	2.3535	.65397	1.9827	.36516
#1	.20723	.21357	19.19	.21057	.21739	19.447	.20264	1.9212	.20344
#2	.20813	.20973	19.19	.20702	.21161	18.811	.20077	1.8681	.20449
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.20953**	**.20680**	**.20547**
Stddev	.00300	.00033	.00082
%RSD	1.4314	.15842	.39796
#1	.20741	.20657	.20605
#2	.21165	.20703	.20489
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1357.5**	**1049.2**	**31211.**	**10397.**
Stddev	1.1	2.9	16.	187.
%RSD	.08343	.27674	.05019	1.8028
#1	1358.3	1051.2	31200.	10264.
#2	1356.7	1047.1	31222.	10530.
Check ?	None	None	None	None
Value				
Range				

Sample Name: CCV-2388838 Acquired: 10/29/2014 20:07:22 Type: QC
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.52151**	**25.776**	**.49936**	**.49334**	**.49860**	**.49075**	**24.598**	**.49718**	**.49570**	**.51025**	**.49923**	**24.703**	**24.891**	**.49742**
Stddev	.00332	.007	.00580	.00341	.00216	.00068	.165	.00049	.00083	.00708	.00381	.071	.007	.00179
%RSD	.63648	.02664	1.1619	.69172	.43369	.13803	.67024	.09906	.16672	1.3884	.76294	.28863	.02975	.35980
#1	.51917	25.781	.50346	.49575	.49707	.49123	24.715	.49753	.49629	.50524	.49653	24.753	24.886	.49616
#2	.52386	25.771	.49526	.49093	.50013	.49027	24.482	.49683	.49512	.51526	.50192	24.652	24.897	.49869
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value														
Range														

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**25.603**	**.51497**	**.50673**	**24.716**	**.50523**	**.50217**	**24.95**	**.50008**	**.49712**	**25.133**	**.50241**	**.50349**	**.51329**	**.49592**
Stddev	.160	.00399	.00203	.034	.00027	.00032	.03	.00377	.00436	.130	.00033	.00107	.00393	.00672
%RSD	.62646	.77400	.40084	.13571	.05302	.06397	.1266	.75305	.87747	.51787	.06494	.21281	.76503	1.3550
#1	25.490	.51215	.50817	24.692	.50542	.50194	24.97	.50275	.50021	25.225	.50218	.50273	.51052	.50067
#2	25.717	.51779	.50530	24.740	.50504	.50240	24.93	.49742	.49404	25.041	.50264	.50425	.51607	.49117
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value														
Range														

Elem	V_2924	Zn2062
Units	ppm	ppm
Avg	**.50840**	**.53067**
Stddev	.00560	.01244
%RSD	1.1011	2.3434
#1	.50444	.52188
#2	.51236	.53946
Check ?	Chk Pass	Chk Pass
Value		
Range		

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1504.0**	**1114.5**	**32831.**	**10680.**
Stddev	2.0	3.3	180.	23.
%RSD	.13372	.29596	.54879	.21304
#1	1502.6	1112.2	32958.	10664.
#2	1505.5	1116.8	32703.	10696.

Sample Name: CCB-2388837 Acquired: 10/29/2014 20:10:07 Type: QC
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00057**	**.00435**	**.00090**	**.00184**	**.00004**	**.00014**	**.00731**	**-.00009**	**.00004**	**-.00024**	**-.00006**	**.00293**
Stddev	.00088	.00800	.00408	.00018	.00005	.00001	.00029	.00007	.00023	.00006	.00010	.00456
%RSD	154.83	183.86	454.11	9.8379	114.72	5.9254	3.9544	78.088	554.57	23.086	182.39	155.51
#1	.00119	-.00131	-.00199	.00196	.00008	.00013	.00752	-.00004	.00020	-.00020	-.00013	-.00029
#2	-.00005	.01001	.00379	.00171	.00001	.00014	.00711	-.00014	-.00012	-.00028	.00002	.00615
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit												
Low Limit												

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00689**	**.00067**	**-.00227**	**.00012**	**-.00005**	**.01596**	**-.00003**	**.00104**	**-.0013**	**-.00262**	**-.00344**	**.01603**
Stddev	.01484	.00024	.00617	.00022	.00001	.00159	.00003	.00217	.0038	.00067	.00446	.00354
%RSD	215.45	35.718	272.01	188.61	14.352	9.9522	91.581	207.60	283.1	25.355	129.65	22.101
#1	.00360	.00050	.00210	.00027	-.00006	.01484	-.00001	-.00049	.0013	-.00215	-.00029	.01853
#2	-.01738	.00084	-.00663	-.00004	-.00005	.01709	-.00005	.00257	-.0040	-.00309	-.00659	.01352
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit												
Low Limit												

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00008**	**.00011**	**.00031**	**-.00479**	**-.00001**	**.00014**
Stddev	.00043	.00010	.00005	.00153	.00022	.00256
%RSD	558.77	94.149	17.436	32.027	3666.3	1859.6
#1	.00023	.00004	.00028	-.00587	.00015	.00194
#2	-.00038	.00018	.00035	-.00370	-.00016	-.00167
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1683.7**	**1142.1**	**34369.**	**10665.**
Stddev	.9	4.9	17.	31.
%RSD	.05066	.43311	.05074	.29370
#1	1683.1	1138.6	34381.	10688.
#2	1684.3	1145.6	34356.	10643.

Sample Name: CCVL-2388843 Acquired: 10/29/2014 20:13:02 Type: QC
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00673**	**.21735**	**.01300**	**.02116**	**.00219**	**.00205**	**.49877**	**.00186**	**.00375**	**.00409**	**.00872**	**.05034**
Stddev	.00098	.00396	.00482	.00048	.00013	.00008	.00208	.00001	.00003	.00071	.00000	.00041
%RSD	14.535	1.8238	37.043	2.2456	5.8242	3.9307	.41740	.30349	.77130	17.363	.01231	.82116
#1	.00604	.21454	.00959	.02150	.00210	.00210	.49730	.00186	.00377	.00359	.00872	.05004
#2	.00742	.22015	.01641	.02083	.00228	.00199	.50025	.00187	.00373	.00459	.00872	.05063
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value												
Range												

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.48125**	**.02864**	**.21275**	**.00298**	**.00974**	**.96912**	**.00997**	**.01104**	**.1911**	**.02006**	**.02501**	**.50714**
Stddev	.01968	.00039	.01322	.00024	.00007	.00298	.00021	.00082	.0023	.00041	.00776	.00822
%RSD	4.0894	1.3766	6.2133	8.2133	.74378	.30717	2.1203	7.3991	1.210	2.0480	31.012	1.6210
#1	.49517	.02836	.20340	.00281	.00969	.96702	.00982	.01046	.1927	.01977	.03050	.51295
#2	.46733	.02892	.22210	.00315	.00979	.97123	.01012	.01162	.1894	.02035	.01953	.50132
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value												
Range												

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00868**	**.00497**	**.00570**	**.02181**	**.00486**	**.01184**
Stddev	.00002	.00006	.00014	.00586	.00024	.00135
%RSD	.25390	1.1271	2.4604	26.871	4.9679	11.399
#1	.00870	.00501	.00560	.02596	.00503	.01088
#2	.00866	.00493	.00580	.01767	.00469	.01279
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1695.5**	**1159.7**	**34907.**	**10809.**
Stddev	1.1	.1	100.	13.
%RSD	.06658	.00853	.28624	.12453
#1	1696.3	1159.7	34977.	10799.
#2	1694.7	1159.6	34836.	10818.

Sample Name: 480-70009-b-1-b ms Acquired: 10/29/2014 20:15:53 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05347**	**10.107**	**.20666**	**1.2722**	**.47732**	**.19468**	**180.39**	**.20009**	**.20006**
Stddev	.00087	.026	.00289	.0014	.00032	.00115	1.28	.00040	.00050
%RSD	1.6345	.26176	1.3961	.11338	.06722	.59031	.70945	.20152	.24760
#1	.05408	10.125	.20462	1.2732	.47755	.19549	179.49	.19981	.20041
#2	.05285	10.088	.20870	1.2712	.47709	.19386	181.30	.20038	.19971
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.19438**	**.20520**	**14.619**	**16.371**	**.23127**	**34.601**	**.75624**	**.20120**	**172.62**
Stddev	.00184	.00268	.098	.082	.00026	.053	.00065	.00014	.11
%RSD	.94667	1.3058	.67361	.49945	.11147	.15440	.08596	.06851	.06376
#1	.19569	.20710	14.689	16.429	.23109	34.639	.75670	.20130	172.69
#2	.19308	.20331	14.549	16.313	.23145	34.563	.75578	.20111	172.54
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.20003**	**.20184**	**19.32**	**.20411**	**.20175**	**18.967**	**.20050**	**1.9007**	**.20040**
Stddev	.00138	.00316	.01	.00088	.00820	.108	.00077	.0094	.00069
%RSD	.69192	1.5664	.0391	.43044	4.0652	.56708	.38582	.49447	.34428
#1	.19905	.20407	19.33	.20473	.20755	19.043	.19995	1.9073	.20089
#2	.20101	.19960	19.32	.20349	.19595	18.891	.20104	1.8940	.19992
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.20533**	**.20286**	**.19951**
Stddev	.00037	.00059	.00396
%RSD	.17924	.28874	1.9844
#1	.20559	.20328	.20231
#2	.20507	.20245	.19671
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1351.6**	**1047.6**	**30881.**	**10462.**
Stddev	1.4	.4	169.	27.
%RSD	.10442	.03372	.54698	.25982
#1	1352.6	1047.8	30761.	10443.
#2	1350.6	1047.3	31000.	10481.
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-70009-b-1-c msd Acquired: 10/29/2014 20:18:51 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05288**	**10.267**	**.20764**	**1.2906**	**.47837**	**.19559**	**183.81**	**.20208**	**.20237**
Stddev	.00035	.069	.00107	.0043	.00232	.00068	2.25	.00038	.00011
%RSD	.66504	.67323	.51610	.33563	.48501	.34904	1.2242	.18756	.05331
#1	.05313	10.316	.20840	1.2937	.48001	.19607	185.40	.20235	.20229
#2	.05263	10.218	.20688	1.2875	.47673	.19511	182.22	.20181	.20244
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.19398**	**.20608**	**14.700**	**16.585**	**.23460**	**34.377**	**.75368**	**.20268**	**172.11**
Stddev	.00041	.00004	.033	.082	.00193	.084	.00069	.00053	.91
%RSD	.21363	.01912	.22427	.49612	.82412	.24461	.09218	.26159	.52680
#1	.19427	.20605	14.723	16.643	.23597	34.437	.75319	.20306	172.75
#2	.19369	.20610	14.676	16.527	.23323	34.318	.75417	.20231	171.46
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.20237**	**.20020**	**19.58**	**.20891**	**.20972**	**19.272**	**.20128**	**1.9263**	**.19916**
Stddev	.00236	.00512	.05	.00241	.00952	.065	.00081	.0084	.00058
%RSD	1.1667	2.5583	.2607	1.1528	4.5373	.33556	.40194	.43633	.29168
#1	.20070	.19658	19.62	.20720	.21645	19.317	.20185	1.9322	.19957
#2	.20404	.20382	19.55	.21061	.20299	19.226	.20071	1.9203	.19875
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.20239**	**.20498**	**.19916**
Stddev	.00812	.00168	.00117
%RSD	4.0105	.81761	.58606
#1	.20813	.20617	.19833
#2	.19665	.20380	.19999
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1344.4**	**1039.6**	**30862.**	**10432.**
Stddev	.5	1.4	72.	17.
%RSD	.04047	.12986	.23380	.16611
#1	1344.8	1038.6	30811.	10419.
#2	1344.0	1040.5	30913.	10444.
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-70009-b-2-a Acquired: 10/29/2014 20:21:49 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00046**	**.01601**	**.00017**	**.13851**	**.11545**	**.00009**	**90.330**	**.00002**	**.00004**
Stddev	.00015	.00191	.00138	.00021	.00032	.00000	1.343	.00002	.00000
%RSD	32.028	11.958	790.05	.15158	.27941	.62902	1.4868	128.96	5.8291
#1	-.00057	.01465	.00115	.13837	.11567	.00009	91.280	.00000	.00004
#2	-.00036	.01736	-.00080	.13866	.11522	.00009	89.380	.00004	.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00091**	**.00130**	**.49625**	**4.6142**	**.03722**	**22.826**	**.65081**	**.00158**	**30.293**
Stddev	.00029	.00000	.00580	.0013	.00017	.023	.00240	.00011	.183
%RSD	32.306	.16564	1.1684	.02808	.46200	.10048	.36861	6.7307	.60256
#1	.00112	.00130	.50035	4.6133	.03734	22.843	.65251	.00166	30.422
#2	.00070	.00130	.49215	4.6151	.03710	22.810	.64912	.00151	30.164
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00071**	**.00174**	**11.63**	**-.00241**	**-.00309**	**6.2541**	**.00038**	**1.0000**	**.00093**
Stddev	.00020	.00161	.01	.00024	.00063	.0675	.00089	.0054	.00056
%RSD	27.910	92.064	.0636	10.079	20.416	1.0792	232.74	.53681	59.838
#1	.00085	.00288	11.63	-.00224	-.00354	6.3018	.00101	1.0038	.00133
#2	.00057	.00061	11.64	-.00258	-.00265	6.2064	-.00025	.99625	.00054
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00195**	**.00005**	**.00072**
Stddev	.00301	.00027	.00212
%RSD	154.72	534.95	295.53
#1	-.00408	-.00014	.00221
#2	.00018	.00024	-.00078
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1484.7**	**1071.7**	**32342.**	**10698.**
Stddev	1.2	1.7	105.	74.
%RSD	.08214	.15998	.32392	.68831
#1	1485.6	1070.5	32268.	10646.
#2	1483.8	1072.9	32416.	10750.
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-70009-b-3-a Acquired: 10/29/2014 20:24:35 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00040**	**.01765**	**.00107**	**.07729**	**.39059**	**.00009**	**133.30**	**.00002**	**.00076**
Stddev	.00063	.00276	.00119	.00095	.00153	.00005	.20	.00014	.00005
%RSD	158.64	15.640	111.34	1.2341	.39177	49.696	.15003	621.14	6.2684
#1	.00005	.01961	.00023	.07797	.38950	.00006	133.16	.00012	.00079
#2	-.00085	.01570	.00191	.07662	.39167	.00013	133.44	-.00007	.00072
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00201**	**.00121**	**6.6360**	**2.3800**	**.00640**	**24.987**	**5.7523**	**-.00023**	**116.39**
Stddev	.00071	.00033	.0109	.0067	.00016	.088	.0104	.00024	.35
%RSD	35.386	27.336	.16456	.28265	2.5156	.35050	.17993	101.09	.29817
#1	.00151	.00097	6.6283	2.3753	.00629	24.925	5.7596	-.00007	116.63
#2	.00251	.00144	6.6437	2.3848	.00651	25.049	5.7450	-.00040	116.14
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00184**	**.00495**	**13.62**	**-.00299**	**.00382**	**8.1261**	**.00025**	**.69069**	**.00066**
Stddev	.00067	.00055	.04	.00046	.00240	.0234	.00004	.00006	.00028
%RSD	36.685	11.084	.3275	15.431	62.874	.28822	17.040	.00846	42.738
#1	.00232	.00534	13.59	-.00332	.00212	8.1095	.00022	.69065	.00046
#2	.00136	.00457	13.65	-.00267	.00551	8.1427	.00028	.69074	.00086
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.00747**	**.00017**	**.00318**
Stddev	.00205	.00021	.00063
%RSD	27.382	123.74	19.780
#1	.00602	.00002	.00363
#2	.00892	.00032	.00274
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1400.7**	**1043.6**	**31212.**	**10411.**
Stddev	1.2	2.5	12.	40.
%RSD	.08482	.23935	.03690	.38037
#1	1401.6	1045.4	31220.	10439.
#2	1399.9	1041.8	31204.	10383.
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-70009-b-4-a Acquired: 10/29/2014 20:27:21 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00042**	**.04546**	**.00301**	**1.2287**	**.27361**	**.00007**	**163.19**	**.00065**	**.00092**
Stddev	.00008	.00570	.00253	.0049	.00021	.00005	.09	.00004	.00033
%RSD	19.406	12.548	84.227	.39678	.07699	67.829	.05281	5.9676	36.049
#1	-.00036	.04143	.00122	1.2253	.27346	.00004	163.13	.00062	.00115
#2	-.00048	.04950	.00480	1.2322	.27375	.00010	163.25	.00068	.00068
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00210**	**.00142**	**7.4106**	**6.1806**	**.01761**	**31.649**	**3.9744**	**.00048**	**93.273**
Stddev	.00058	.00011	.0005	.0055	.00035	.043	.0006	.00015	.100
%RSD	27.524	7.7468	.00698	.08916	1.9692	.13440	.01497	32.333	.10751
#1	.00169	.00134	7.4102	6.1845	.01785	31.679	3.9740	.00059	93.202
#2	.00251	.00150	7.4109	6.1767	.01736	31.619	3.9748	.00037	93.344
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00179**	**.00594**	**16.60**	**-.00254**	**-.00388**	**9.6619**	**-.00089**	**1.1176**	**.00107**
Stddev	.00047	.00377	.00	.00246	.00538	.0294	.00041	.0021	.00015
%RSD	26.567	63.524	.0175	96.814	138.72	.30391	45.968	.18934	14.338
#1	.00212	.00327	16.60	-.00080	-.00007	9.6411	-.00118	1.1161	.00096
#2	.00145	.00861	16.60	-.00428	-.00768	9.6827	-.00060	1.1191	.00118
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00282**	**.00075**	**.00566**
Stddev	.00193	.00005	.00033
%RSD	68.238	6.7553	5.8525
#1	-.00418	.00079	.00590
#2	-.00146	.00072	.00543
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1391.5**	**1036.4**	**31198.**	**10494.**
Stddev	2.4	2.1	51.	8.
%RSD	.17132	.20435	.16469	.07706
#1	1393.2	1037.9	31162.	10500.
#2	1389.8	1034.9	31234.	10489.
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-70009-b-5-a Acquired: 10/29/2014 20:30:06 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00057**	**.04198**	**-.00031**	**.05302**	**.19388**	**.00004**	**52.746**	**-.00001**	**-.00021**
Stddev	.00079	.00519	.00693	.00070	.00018	.00003	.356	.00003	.00017
%RSD	137.34	12.364	2215.0	1.3293	.09074	82.063	.67582	214.30	78.329
#1	-.00002	.04565	-.00521	.05351	.19400	.00002	52.998	.00001	-.00009
#2	-.00113	.03831	.00459	.05252	.19375	.00006	52.494	-.00004	-.00033
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00070**	**.00098**	**1.0126**	**1.1436**	**.00465**	**11.898**	**.25529**	**.00081**	**39.156**
Stddev	.00009	.00046	.0002	.0098	.00000	.032	.00070	.00027	.101
%RSD	12.278	47.235	.01730	.85414	.09248	.26926	.27312	33.966	.25782
#1	.00076	.00130	1.0125	1.1505	.00465	11.876	.25479	.00061	39.085
#2	.00064	.00065	1.0128	1.1367	.00465	11.921	.25578	.00100	39.227
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00014**	**.00154**	**1.426**	**-.00214**	**.00191**	**6.5867**	**.00029**	**.49470**	**.00035**
Stddev	.00007	.00076	.009	.00150	.00080	.0187	.00022	.00178	.00010
%RSD	47.855	49.309	.6301	70.311	41.703	.28469	75.260	.35983	28.001
#1	.00009	.00208	1.420	-.00107	.00247	6.5734	.00014	.49344	.00042
#2	.00019	.00100	1.432	-.00320	.00135	6.5999	.00045	.49596	.00028
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.00041**	**-.00011**	**.00155**
Stddev	.00218	.00024	.00026
%RSD	531.83	211.58	16.837
#1	.00195	.00006	.00136
#2	-.00113	-.00028	.00173
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1507.9**	**1082.5**	**32570.**	**10612.**
Stddev	2.3	3.8	80.	45.
%RSD	.15481	.35074	.24674	.42369
#1	1509.6	1085.1	32627.	10581.
#2	1506.3	1079.8	32513.	10644.
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-70009-b-6-a Acquired: 10/29/2014 20:32:53 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00102**	**.01241**	**.00741**	**1.1267**	**.34946**	**.00002**	**168.88**	**-.00001**	**.00009**
Stddev	.00006	.00494	.00498	.0042	.00099	.00002	.90	.00011	.00010
%RSD	5.9816	39.846	67.176	.37384	.28272	117.75	.53411	2212.7	109.42
#1	-.00106	.01590	.00389	1.1237	.34876	.00003	169.52	.00007	.00017
#2	-.00097	.00891	.01093	1.1297	.35016	.00000	168.24	-.00008	.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00171**	**.00172**	**14.499**	**6.8808**	**.02240**	**28.201**	**3.8143**	**.00233**	**181.43**
Stddev	.00025	.00020	.026	.0149	.00019	.111	.0215	.00020	1.03
%RSD	14.743	11.819	.18180	.21650	.83057	.39361	.56391	8.5086	.57000
#1	.00188	.00157	14.518	6.8913	.02227	28.122	3.7991	.00219	180.70
#2	.00153	.00186	14.480	6.8703	.02253	28.279	3.8295	.00247	182.16
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00160**	**.00505**	**15.83**	**-.00337**	**.00986**	**10.035**	**.00043**	**1.1741**	**.00077**
Stddev	.00012	.00348	.08	.00152	.00535	.035	.00130	.0042	.00023
%RSD	7.6697	68.817	.4912	45.144	54.201	.35080	303.55	.36145	30.131
#1	.00151	.00751	15.77	-.00230	.01364	10.060	-.00049	1.1711	.00060
#2	.00169	.00259	15.88	-.00445	.00608	10.010	.00135	1.1771	.00093
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.00066**	**.00089**	**.00134**
Stddev	.00028	.00004	.00012
%RSD	42.402	5.0145	9.0690
#1	.00046	.00092	.00142
#2	.00086	.00086	.00125
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1351.7**	**1020.1**	**30731.**	**10417.**
Stddev	4.0	4.9	44.	17.
%RSD	.29379	.47900	.14189	.16128
#1	1354.6	1023.6	30762.	10405.
#2	1348.9	1016.7	30701.	10429.
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-70045-b-2-a Acquired: 10/29/2014 20:35:44 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00055**	**.01356**	**.00241**	**.00404**	**.00010**	**.00002**	**.04633**	**-.00028**	**.00009**
Stddev	.00006	.00221	.00321	.00060	.00005	.00005	.00314	.00005	.00003
%RSD	10.264	16.326	133.19	14.889	46.759	328.46	6.7826	16.586	32.101
#1	.00051	.01199	.00014	.00447	.00007	.00005	.04855	-.00025	.00007
#2	.00059	.01512	.00468	.00362	.00014	-.00002	.04411	-.00032	.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00000**	**.00002**	**.00418**	**-.01193**	**.00048**	**.00688**	**.00042**	**.00027**	**.03456**
Stddev	.00027	.00042	.00243	.00159	.00034	.00037	.00035	.00018	.00242
%RSD	10733.	2023.4	58.211	13.341	70.133	5.4447	83.167	68.297	7.0014
#1	-.00019	.00032	.00246	-.01305	.00072	.00715	.00017	.00039	.03627
#2	.00019	-.00028	.00590	-.01080	.00024	.00662	.00067	.00014	.03285
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00039**	**.00273**	**.0023**	**-.00156**	**-.00062**	**-.00503**	**-.00008**	**.00024**	**.00008**
Stddev	.00010	.00135	.0023	.00028	.00532	.00027	.00068	.00001	.00014
%RSD	25.781	49.426	96.23	17.857	855.49	5.4707	877.65	2.9591	176.90
#1	-.00032	.00178	.0039	-.00175	-.00438	-.00483	-.00056	.00024	.00018
#2	-.00046	.00369	.0007	-.00136	.00314	-.00522	.00040	.00023	-.00002
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00062**	**.00002**	**.00442**
Stddev	.00175	.00003	.00018
%RSD	281.14	156.61	4.0239
#1	-.00186	.00004	.00454
#2	.00061	-.00000	.00429
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1685.6**	**1136.6**	**34748.**	**10992.**
Stddev	5.1	1.7	346.	22.
%RSD	.30185	.15318	.99575	.19719
#1	1682.0	1135.4	34993.	11007.
#2	1689.2	1137.9	34504.	10976.
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-70045-b-3-a Acquired: 10/29/2014 20:38:37 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00017**	**.02740**	**.00188**	**.02118**	**.04100**	**.00006**	**135.75**	**-.00010**	**.00004**
Stddev	.00020	.00482	.00001	.00032	.00004	.00006	.52	.00018	.00003
%RSD	120.92	17.585	.27469	1.4975	.09337	102.40	.38070	175.18	65.688
#1	-.00031	.02399	.00188	.02140	.04097	.00002	135.39	.00002	.00006
#2	-.00002	.03080	.00188	.02096	.04103	.00010	136.12	-.00023	.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00046**	**.00218**	**.00721**	**1.0344**	**.00288**	**27.711**	**.10309**	**.00024**	**4.2868**
Stddev	.00023	.00017	.00005	.0240	.00004	.059	.00037	.00025	.0041
%RSD	50.108	7.8902	.70626	2.3227	1.3972	.21146	.36045	106.29	.09567
#1	.00030	.00206	.00725	1.0174	.00291	27.669	.10282	.00042	4.2839
#2	.00063	.00230	.00718	1.0514	.00285	27.752	.10335	.00006	4.2897
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00320**	**.00213**	**4.169**	**-.00173**	**.00962**	**6.1796**	**-.00099**	**.08897**	**.00071**
Stddev	.00040	.00001	.005	.00071	.01028	.0211	.00110	.00066	.00000
%RSD	12.376	.34605	.1159	41.182	106.93	.34119	110.95	.74653	.63480
#1	.00292	.00214	4.172	-.00223	.00235	6.1647	-.00177	.08850	.00071
#2	.00349	.00213	4.166	-.00122	.01689	6.1945	-.00021	.08944	.00070
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00192**	**.00012**	**.00442**
Stddev	.00321	.00023	.00058
%RSD	167.01	186.77	13.210
#1	.00035	.00028	.00483
#2	-.00419	-.00004	.00400
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1467.9**	**1061.3**	**31981.**	**10602.**
Stddev	1.8	3.0	130.	38.
%RSD	.12452	.28001	.40521	.36144
#1	1466.6	1059.2	32073.	10629.
#2	1469.2	1063.4	31889.	10575.
Check ?	None	None	None	None
Value				
Range				

Sample Name: CCV-2388838 Acquired: 10/29/2014 20:41:27 Type: QC
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.51870**	**25.721**	**.50429**	**.49699**	**.49571**	**.49092**	**24.940**	**.50076**	**.49939**	**.50162**	**.49829**	**24.815**	**24.786**	**.49295**
Stddev	.00056	.303	.00045	.00100	.00509	.00362	.147	.00250	.00116	.00219	.00261	.219	.195	.00693
%RSD	.10805	1.1784	.08846	.20027	1.0260	.73659	.59138	.49840	.23279	.43564	.52379	.88279	.78711	1.4062
#1	.51909	25.507	.50397	.49769	.49211	.48836	24.836	.50252	.50021	.50008	.50014	24.660	24.648	.48805
#2	.51830	25.935	.50460	.49628	.49931	.49347	25.045	.49899	.49857	.50317	.49645	24.970	24.924	.49785
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value														
Range														

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**25.494**	**.50795**	**.51020**	**24.550**	**.50591**	**.50432**	**25.16**	**.50273**	**.50126**	**25.287**	**.50630**	**.50019**	**.50899**	**.50376**
Stddev	.099	.00037	.00154	.278	.00171	.00073	.10	.00349	.01311	.229	.00394	.00393	.00074	.00522
%RSD	.38981	.07328	.30138	1.1340	.33840	.14517	.4043	.69457	2.6148	.90687	.77729	.78530	.14501	1.0360
#1	25.564	.50769	.51129	24.353	.50712	.50484	25.24	.50520	.49199	25.125	.50909	.49741	.50951	.50007
#2	25.424	.50822	.50912	24.747	.50470	.50381	25.09	.50026	.51052	25.449	.50352	.50297	.50847	.50745
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value														
Range														

Elem	V_2924	Zn2062
Units	ppm	ppm
Avg	**.50094**	**.51959**
Stddev	.00167	.00352
%RSD	.33353	.67652
#1	.50212	.51710
#2	.49976	.52207
Check ?	Chk Pass	Chk Pass
Value		
Range		

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1494.2**	**1103.5**	**33009.**	**10576.**
Stddev	2.6	3.1	42.	57.
%RSD	.17627	.27892	.12626	.53473
#1	1492.4	1101.4	32980.	10616.
#2	1496.1	1105.7	33039.	10536.

Sample Name: CCB-2388837 Acquired: 10/29/2014 20:44:12 Type: QC
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00047**	**.00605**	**-.00235**	**.00130**	**.00021**	**.00033**	**.01614**	**-.00008**	**.00028**	**.00009**	**.00013**	**.01335**
Stddev	.00041	.02150	.00322	.00030	.00029	.00039	.02098	.00005	.00012	.00036	.00021	.01940
%RSD	86.963	355.53	137.25	23.073	136.49	121.14	129.97	58.881	41.040	403.16	156.32	145.35
#1	-.00076	.02125	-.00007	.00109	.00001	.00060	.03097	-.00011	.00036	-.00016	-.00001	.02707
#2	-.00018	-.00916	-.00463	.00151	.00041	.00005	.00131	-.00005	.00020	.00034	.00028	-.00037
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit												
Low Limit												

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00214**	**.00043**	**.01054**	**.00013**	**-.00010**	**.02025**	**.00051**	**.00253**	**-.0017**	**-.00099**	**.00561**	**.02242**
Stddev	.02513	.00039	.01477	.00029	.00004	.01836	.00005	.00014	.0058	.00078	.00355	.01585
%RSD	1175.8	92.080	140.07	224.75	42.397	90.691	10.641	5.3832	345.6	78.409	63.324	70.678
#1	.01991	.00071	.00010	-.00007	-.00014	.03323	.00055	.00243	-.0058	-.00154	.00812	.03362
#2	-.01563	.00015	.02099	.00033	-.00007	.00726	.00047	.00263	.0024	-.00044	.00310	.01121
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit												
Low Limit												

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**.00032**	**.00061**	**-.00095**	**-.00014**	**.00072**
Stddev	.00019	.00040	.00045	.00341	.00024	.00280
%RSD	532.10	123.61	73.534	357.90	165.42	390.15
#1	-.00010	.00061	.00029	.00146	-.00031	-.00126
#2	.00017	.00004	.00093	-.00337	.00002	.00270
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1680.4**	**1139.2**	**34559.**	**10694.**
Stddev	15.5	12.4	32.	4.
%RSD	.92114	1.0895	.09173	.03522
#1	1669.5	1130.5	34536.	10696.
#2	1691.4	1148.0	34581.	10691.

Sample Name: CCVL-2388843 Acquired: 10/29/2014 20:47:07 Type: QC
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00569**	**.19732**	**.01484**	**.02061**	**.00209**	**.00205**	**.47954**	**.00191**	**.00380**	**.00409**	**.00841**	**.04806**
Stddev	.00031	.01743	.00132	.00078	.00001	.00004	.00035	.00002	.00007	.00007	.00005	.00093
%RSD	5.3844	8.8347	8.8944	3.8073	.43223	2.1097	.07313	1.2172	1.9418	1.7657	.58995	1.9333
#1	.00547	.18499	.01391	.02117	.00208	.00202	.47930	.00193	.00375	.00414	.00845	.04872
#2	.00590	.20964	.01578	.02006	.00209	.00208	.47979	.00189	.00385	.00404	.00838	.04741
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value												
Range												

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.47735**	**.02902**	**.20626**	**.00282**	**.00972**	**.95912**	**.00939**	**.01063**	**.1914**	**.02147**	**.02720**	**.50158**
Stddev	.00806	.00032	.00258	.00013	.00028	.00059	.00042	.00028	.0054	.00057	.00155	.01033
%RSD	1.6883	1.0943	1.2516	4.4906	2.9020	.06150	4.4820	2.6365	2.829	2.6525	5.7082	2.0590
#1	.47165	.02924	.20808	.00291	.00952	.95870	.00969	.01043	.1952	.02187	.02610	.49428
#2	.48305	.02879	.20443	.00273	.00992	.95954	.00910	.01083	.1875	.02106	.02829	.50889
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value												
Range												

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00901**	**.00487**	**.00525**	**.01961**	**.00486**	**.01061**
Stddev	.00024	.00003	.00020	.00158	.00019	.00145
%RSD	2.6364	.67825	3.8213	8.0354	3.8420	13.693
#1	.00918	.00485	.00511	.02072	.00499	.01164
#2	.00885	.00489	.00539	.01849	.00473	.00959
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1683.5**	**1152.3**	**34822.**	**10839.**
Stddev	.1	.9	96.	28.
%RSD	.00638	.07878	.27612	.25473
#1	1683.6	1151.7	34754.	10859.
#2	1683.5	1153.0	34890.	10820.

Sample Name: 480-70045-b-4-a Acquired: 10/29/2014 20:49:58 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00040**	**.00740**	**-.00365**	**.01046**	**.03482**	**.00004**	**131.64**	**.00001**	**-.00028**
Stddev	.00054	.00227	.00309	.00009	.00013	.00000	.63	.00014	.00000
%RSD	135.10	30.706	84.650	.88737	.38684	3.4784	.47997	1409.5	1.4212
#1	.00002	.00901	-.00147	.01053	.03492	.00004	131.19	.00011	-.00028
#2	.00078	.00579	-.00584	.01040	.03473	.00004	132.08	-.00009	-.00029
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00096**	**.00139**	**-.00070**	**.76507**	**.00261**	**25.862**	**-.00039**	**.00024**	**1.5170**
Stddev	.00031	.00028	.00025	.00351	.00039	.084	.00001	.00006	.0032
%RSD	31.856	20.367	35.489	.45813	14.793	.32309	2.0124	25.088	.21214
#1	.00075	.00119	-.00087	.76259	.00234	25.921	-.00039	.00028	1.5192
#2	.00118	.00159	-.00052	.76755	.00289	25.803	-.00040	.00020	1.5147
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00044**	**.00148**	**4.186**	**-.00070**	**.00063**	**5.1927**	**-.00010**	**.08334**	**.00097**
Stddev	.00028	.00137	.023	.00076	.00171	.0199	.00008	.00001	.00015
%RSD	62.645	92.801	.5576	109.87	269.94	.38251	80.373	.00819	15.725
#1	.00025	.00244	4.202	-.00016	.00184	5.1787	-.00016	.08334	.00086
#2	.00064	.00051	4.169	-.00124	-.00058	5.2068	-.00004	.08335	.00108
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00250**	**.00011**	**.00122**
Stddev	.00596	.00005	.00000
%RSD	238.66	46.436	.25096
#1	.00172	.00014	.00123
#2	-.00671	.00007	.00122
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1478.8**	**1065.8**	**32275.**	**10594.**
Stddev	1.7	3.8	62.	81.
%RSD	.11338	.35353	.19305	.76161
#1	1477.6	1063.1	32231.	10651.
#2	1480.0	1068.5	32319.	10537.
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-70045-b-5-a Acquired: 10/29/2014 20:52:47 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00066**	**.02607**	**.00212**	**.02444**	**.06370**	**.00002**	**177.18**	**-.00014**	**-.00020**
Stddev	.00001	.00465	.00139	.00038	.00020	.00002	.90	.00012	.00012
%RSD	1.3287	17.841	65.532	1.5548	.30930	103.53	.50979	83.225	58.118
#1	-.00067	.02278	.00310	.02471	.06384	.00001	177.81	-.00023	-.00028
#2	-.00066	.02935	.00114	.02417	.06356	.00004	176.54	-.00006	-.00012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00128**	**.00130**	**.00452**	**2.1169**	**.00366**	**28.685**	**.05864**	**.00024**	**3.7759**
Stddev	.00020	.00027	.00124	.0072	.00036	.039	.00006	.00024	.0033
%RSD	15.829	21.017	27.306	.33848	9.7807	.13646	.11071	100.45	.08749
#1	.00142	.00149	.00365	2.1118	.00341	28.713	.05869	.00041	3.7735
#2	.00113	.00110	.00540	2.1220	.00391	28.658	.05859	.00007	3.7782
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00322**	**.00224**	**5.285**	**-.00273**	**.00259**	**7.2206**	**-.00054**	**.13926**	**.00119**
Stddev	.00136	.00149	.002	.00069	.00261	.0104	.00026	.00050	.00018
%RSD	42.296	66.572	.0454	25.380	100.69	.14412	47.726	.35572	15.554
#1	.00226	.00329	5.287	-.00224	.00075	7.2132	-.00072	.13891	.00106
#2	.00418	.00118	5.283	-.00322	.00443	7.2279	-.00036	.13961	.00132
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00436**	**-.00020**	**.00253**
Stddev	.01153	.00008	.00048
%RSD	264.41	42.718	18.971
#1	-.01252	-.00025	.00287
#2	.00379	-.00014	.00219
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1448.4**	**1052.3**	**31797.**	**10529.**
Stddev	2.3	2.8	9.	34.
%RSD	.16150	.26844	.02791	.32377
#1	1446.7	1050.3	31791.	10553.
#2	1450.0	1054.3	31803.	10505.
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-70045-b-6-a Acquired: 10/29/2014 20:55:41 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00005**	**.03940**	**.00671**	**.02991**	**.07213**	**.00002**	**188.01**	**.00001**	**.01218**
Stddev	.00054	.00318	.00099	.00124	.00023	.00003	.50	.00013	.00028
%RSD	1194.5	8.0770	14.831	4.1410	.32406	142.96	.26407	2024.8	2.2737
#1	-.00043	.03715	.00741	.03078	.07229	.00005	188.36	.00010	.01199
#2	.00034	.04165	.00600	.02903	.07196	-.00000	187.66	-.00008	.01238
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00159**	**.00155**	**5.5627**	**2.0510**	**.00438**	**28.024**	**1.0323**	**.00133**	**13.559**
Stddev	.00010	.00016	.0458	.0119	.00072	.000	.0018	.00002	.064
%RSD	6.0290	10.576	.82275	.57887	16.473	.00073	.17012	1.8301	.46987
#1	.00152	.00166	5.5951	2.0426	.00489	28.024	1.0336	.00134	13.604
#2	.00166	.00143	5.5304	2.0594	.00387	28.024	1.0311	.00131	13.514
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00970**	**.00088**	**7.058**	**-.00203**	**.00075**	**7.6947**	**-.00055**	**.14586**	**.00078**
Stddev	.00051	.00000	.006	.00126	.00822	.0006	.00067	.00135	.00033
%RSD	5.2181	.35264	.0809	61.905	1091.9	.00724	122.88	.92791	42.286
#1	.00934	.00088	7.062	-.00114	.00656	7.6950	-.00007	.14682	.00055
#2	.01005	.00088	7.054	-.00292	-.00506	7.6943	-.00102	.14490	.00101
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00454**	**.00018**	**.01177**
Stddev	.00203	.00004	.00034
%RSD	44.640	20.241	2.9276
#1	-.00311	.00016	.01152
#2	-.00598	.00021	.01201
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1434.3**	**1053.7**	**31764.**	**10582.**
Stddev	3.0	1.0	74.	41.
%RSD	.20836	.09422	.23165	.39105
#1	1436.5	1054.4	31712.	10553.
#2	1432.2	1053.0	31816.	10611.
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-70045-b-7-a Acquired: 10/29/2014 20:58:34 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00028**	**.00668**	**.00250**	**.00948**	**.02295**	**.00003**	**112.34**	**.00003**	**-.00024**
Stddev	.00005	.00192	.00126	.00008	.00050	.00002	.78	.00006	.00010
%RSD	16.130	28.793	50.428	.85928	2.1949	67.883	.69694	208.28	41.498
#1	-.00025	.00804	.00161	.00954	.02259	.00004	111.79	.00007	-.00031
#2	-.00031	.00532	.00339	.00942	.02331	.00002	112.90	-.00001	-.00017
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00113**	**.00120**	**.00221**	**.77690**	**.00205**	**21.031**	**-.00031**	**.00035**	**1.2034**
Stddev	.00034	.00026	.00026	.01832	.00027	.479	.00008	.00023	.0029
%RSD	30.485	21.676	11.922	2.3585	13.309	2.2763	24.667	65.367	.24103
#1	.00137	.00101	.00240	.76395	.00186	20.693	-.00036	.00019	1.2054
#2	.00089	.00138	.00203	.78986	.00225	21.370	-.00026	.00051	1.2013
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00054**	**.00367**	**3.539**	**-.00109**	**-.00161**	**4.6639**	**-.00013**	**.06925**	**.00066**
Stddev	.00046	.00209	.004	.00079	.00609	.0300	.00008	.00028	.00032
%RSD	84.201	57.069	.0977	72.342	379.31	.64401	61.680	.40295	49.518
#1	.00022	.00219	3.537	-.00165	.00270	4.6427	-.00007	.06905	.00089
#2	.00087	.00515	3.541	-.00053	-.00591	4.6852	-.00018	.06944	.00043
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00131**	**.00046**	**.00870**
Stddev	.00216	.00018	.00125
%RSD	165.62	39.025	14.338
#1	.00022	.00058	.00782
#2	-.00284	.00033	.00958
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1492.8**	**1069.7**	**32638.**	**10552.**
Stddev	5.9	6.2	501.	77.
%RSD	.39452	.58017	1.5354	.72900
#1	1497.0	1074.0	32992.	10606.
#2	1488.6	1065.3	32283.	10497.
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-70138-b-1-a Acquired: 10/29/2014 21:01:23 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00040**	**.02075**	**.00169**	**.01486**	**.03074**	**.00005**	**118.66**	**-.00012**	**-.00017**
Stddev	.00046	.00423	.00134	.00010	.00013	.00003	1.36	.00002	.00024
%RSD	115.88	20.380	79.002	.64014	.41375	66.561	1.1483	19.588	139.94
#1	.00007	.02375	.00264	.01493	.03083	.00002	119.62	-.00010	-.00000
#2	.00072	.01776	.00075	.01479	.03065	.00007	117.70	-.00013	-.00034
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00114**	**.00124**	**.02465**	**.70175**	**.00286**	**25.844**	**.00020**	**.00026**	**3.5318**
Stddev	.00033	.00022	.00261	.00574	.00037	.149	.00009	.00015	.0233
%RSD	28.988	17.341	10.580	.81782	12.814	.57757	43.555	57.015	.66085
#1	.00091	.00139	.02649	.70580	.00260	25.949	.00026	.00015	3.5483
#2	.00138	.00109	.02280	.69769	.00312	25.738	.00014	.00036	3.5153
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00138**	**.00299**	**6.547**	**-.00247**	**.01289**	**4.9361**	**-.00016**	**.07915**	**.00089**
Stddev	.00055	.00204	.009	.00341	.00350	.0796	.00178	.00035	.00043
%RSD	39.773	68.134	.1329	138.34	27.185	1.6121	1083.3	.43801	48.449
#1	.00177	.00155	6.553	-.00488	.01537	4.9923	-.00142	.07940	.00059
#2	.00099	.00443	6.541	-.00005	.01041	4.8798	.00109	.07891	.00120
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.00049**	**-.00011**	**.00191**
Stddev	.00093	.00033	.00002
%RSD	188.63	298.03	1.0530
#1	.00115	.00012	.00193
#2	-.00016	-.00035	.00190
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1485.5**	**1069.3**	**32403.**	**10618.**
Stddev	2.9	3.9	170.	65.
%RSD	.19566	.36425	.52322	.61549
#1	1483.4	1066.6	32283.	10572.
#2	1487.5	1072.1	32523.	10664.
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-70138-b-2-a Acquired: 10/29/2014 21:04:12 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00032**	**.01655**	**.00022**	**.00985**	**.01273**	**.00003**	**66.584**	**-.00016**	**-.00020**
Stddev	.00017	.00200	.00104	.00047	.00005	.00001	.282	.00003	.00021
%RSD	51.929	12.070	472.84	4.7394	.38761	28.425	.42406	17.378	104.92
#1	-.00044	.01797	.00096	.00952	.01270	.00003	66.784	-.00018	-.00005
#2	-.00020	.01514	-.00052	.01019	.01277	.00002	66.384	-.00014	-.00036
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00101**	**.00115**	**.00139**	**.49166**	**.00158**	**16.400**	**-.00025**	**.00001**	**1.9713**
Stddev	.00019	.00016	.00186	.01529	.00034	.002	.00005	.00018	.0044
%RSD	18.557	13.987	133.78	3.1101	21.708	.00945	21.521	1400.5	.22545
#1	.00115	.00104	.00008	.50247	.00134	16.401	-.00028	.00014	1.9682
#2	.00088	.00127	.00271	.48085	.00182	16.399	-.00021	-.00012	1.9745
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00043**	**.00216**	**1.388**	**-.00277**	**.00079**	**3.6874**	**.00017**	**.04315**	**.00095**
Stddev	.00056	.00103	.005	.00282	.00315	.0047	.00137	.00006	.00029
%RSD	130.49	47.901	.3324	101.75	396.94	.12870	808.86	.12854	30.482
#1	.00082	.00289	1.385	-.00477	-.00144	3.6841	.00114	.04319	.00116
#2	.00003	.00143	1.391	-.00078	.00302	3.6908	-.00080	.04311	.00075
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00493**	**-.00005**	**.23900**
Stddev	.00384	.00021	.00158
%RSD	77.761	427.07	.65937
#1	-.00765	.00010	.24011
#2	-.00222	-.00020	.23788
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1533.9**	**1087.0**	**33137.**	**10695.**
Stddev	2.8	1.5	181.	4.
%RSD	.18514	.13749	.54523	.03848
#1	1535.9	1088.0	33265.	10692.
#2	1531.8	1085.9	33009.	10698.
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-70057-b-2-d Acquired: 10/29/2014 21:07:02 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00041**	**.00634**	**.01543**	**.46942**	**.02786**	**.00003**	**210.80**	**.00029**	**.00024**
Stddev	.00065	.00009	.00017	.00014	.00007	.00003	1.85	.00008	.00008
%RSD	158.32	1.4528	1.0862	.03086	.25088	105.38	.87847	26.385	33.392
#1	.00005	.00640	.01555	.46952	.02791	.00001	212.11	.00024	.00018
#2	-.00087	.00627	.01532	.46932	.02781	.00005	209.49	.00035	.00029
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00173**	**.00187**	**.79722**	**3.9050**	**.03146**	**71.890**	**.15497**	**.03078**	**301.56**
Stddev	.00003	.00009	.00362	.0233	.00001	.008	.00026	.00053	1.19
%RSD	1.6331	4.8016	.45424	.59791	.04703	.01173	.16703	1.7308	.39574
#1	.00175	.00181	.79978	3.9215	.03147	71.884	.15479	.03040	302.41
#2	.00171	.00193	.79466	3.8885	.03145	71.896	.15516	.03115	300.72
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00168**	**.00252**	**100.7**	**.00004**	**.00570**	**5.5995**	**-.00201**	**7.1313**	**.00124**
Stddev	.00001	.00034	.1	.00152	.00292	.0549	.00167	.0989	.00041
%RSD	.56882	13.699	.0759	3466.7	51.240	.98023	83.237	1.3868	33.304
#1	.00169	.00276	100.7	-.00103	.00363	5.6383	-.00083	7.2012	.00154
#2	.00167	.00227	100.6	.00112	.00776	5.5607	-.00319	7.0613	.00095
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00114**	**-.00017**	**.00393**
Stddev	.00805	.00024	.00027
%RSD	705.05	142.95	6.8464
#1	-.00683	-.00034	.00413
#2	.00455	.00000	.00374
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1289.0**	**990.83**	**29885.**	**10299.**
Stddev	.4	1.04	1.	63.
%RSD	.02836	.10455	.00344	.61452
#1	1288.7	991.56	29885.	10254.
#2	1289.2	990.10	29886.	10343.
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-70057-b-3-b Acquired: 10/29/2014 21:10:06 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00044**	**.00689**	**.01158**	**.49050**	**.01250**	**.00006**	**128.53**	**.00003**	**.00013**
Stddev	.00085	.00304	.00137	.00077	.00002	.00001	1.13	.00012	.00020
%RSD	190.44	44.218	11.851	.15629	.18372	18.127	.87860	376.84	159.36
#1	.00015	.00473	.01061	.48995	.01251	.00005	129.33	.00011	-.00002
#2	-.00104	.00904	.01255	.49104	.01248	.00007	127.73	-.00005	.00027
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00105**	**.00258**	**.20518**	**3.1019**	**.02440**	**38.387**	**.07304**	**.04538**	**182.87**
Stddev	.00057	.00039	.00118	.0012	.00030	.076	.00031	.00023	.68
%RSD	53.974	14.929	.57298	.03867	1.2442	.19712	.42904	.50683	.37002
#1	.00146	.00286	.20601	3.1010	.02419	38.440	.07326	.04522	183.34
#2	.00065	.00231	.20435	3.1027	.02462	38.333	.07282	.04554	182.39
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00006**	**.00245**	**140.5**	**.00119**	**-.00464**	**5.3618**	**.00104**	**4.6089**	**.00066**
Stddev	.00018	.00589	.3	.00227	.00300	.0570	.00067	.0593	.00027
%RSD	306.99	241.03	.1879	190.15	64.704	1.0628	64.189	1.2870	41.562
#1	.00007	.00661	140.3	.00280	-.00676	5.4021	.00057	4.6509	.00047
#2	-.00018	-.00172	140.7	-.00041	-.00252	5.3215	.00151	4.5670	.00085
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.00063**	**.00020**	**.00191**
Stddev	.00387	.00007	.00061
%RSD	614.69	37.508	31.822
#1	.00337	.00015	.00148
#2	-.00211	.00025	.00233
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1370.2**	**1026.3**	**30889.**	**10443.**
Stddev	4.3	2.1	160.	85.
%RSD	.31036	.20140	.51657	.81502
#1	1373.3	1027.8	30776.	10383.
#2	1367.2	1024.9	31002.	10503.
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-70057-b-4-b Acquired: 10/29/2014 21:13:04 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00039**	**.01206**	**.00662**	**.35049**	**.07832**	**.00007**	**111.15**	**-.00002**	**.00009**
Stddev	.00060	.00682	.00283	.00051	.00042	.00004	.33	.00008	.00001
%RSD	152.25	56.498	42.748	.14531	.53554	60.433	.29781	406.70	9.6934
#1	-.00082	.01688	.00862	.35085	.07802	.00004	111.39	.00004	.00009
#2	.00003	.00724	.00462	.35013	.07861	.00010	110.92	-.00007	.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00116**	**.00146**	**.23237**	**2.8613**	**.01503**	**39.985**	**.13290**	**.02921**	**177.16**
Stddev	.00047	.00015	.00236	.0094	.00025	.079	.00072	.00037	.32
%RSD	40.839	9.9327	1.0167	.32706	1.6775	.19707	.54361	1.2547	.18247
#1	.00082	.00156	.23070	2.8547	.01485	40.041	.13341	.02895	176.93
#2	.00149	.00136	.23404	2.8679	.01521	39.930	.13238	.02947	177.39
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00017**	**.00177**	**28.39**	**-.00178**	**-.00096**	**5.7190**	**-.00072**	**3.2675**	**.00075**
Stddev	.00010	.00110	.12	.00195	.00326	.0022	.00222	.0054	.00015
%RSD	60.508	62.244	.4059	109.77	338.34	.03786	308.98	.16549	19.682
#1	.00024	.00099	28.47	-.00040	-.00327	5.7205	.00085	3.2637	.00085
#2	.00010	.00256	28.31	-.00316	.00134	5.7174	-.00228	3.2713	.00065
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00324**	**-.00008**	**.00127**
Stddev	.00456	.00013	.00088
%RSD	141.02	164.22	69.268
#1	-.00646	-.00018	.00065
#2	-.00001	.00001	.00190
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1376.3**	**1029.2**	**30991.**	**10393.**
Stddev	.5	2.1	7.	14.
%RSD	.03788	.20243	.02159	.13923
#1	1375.9	1030.7	30986.	10382.
#2	1376.6	1027.7	30995.	10403.
Check ?	None	None	None	None
Value				
Range				

Sample Name: CCV-2388838 Acquired: 10/29/2014 21:15:59 Type: QC
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.52792**	**25.983**	**.50814**	**.49712**	**.50757**	**.49707**	**24.788**	**.50319**	**.50134**	**.50417**	**.49638**	**25.137**	**24.997**	**.50373**
Stddev	.00041	.047	.00427	.00404	.00029	.00171	.084	.00316	.00081	.00388	.00738	.065	.033	.00226
%RSD	.07722	.18273	.84016	.81253	.05776	.34327	.33907	.62753	.16239	.77025	1.4869	.25666	.13396	.44788
#1	.52763	25.949	.51116	.49998	.50736	.49828	24.847	.50543	.50192	.50143	.49116	25.183	24.973	.50213
#2	.52821	26.016	.50512	.49427	.50777	.49587	24.728	.50096	.50077	.50692	.50160	25.092	25.020	.50532
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value														
Range														

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**25.942**	**.52154**	**.51297**	**24.934**	**.51717**	**.50722**	**25.50**	**.50982**	**.49306**	**25.302**	**.51077**	**.50452**	**.51815**	**.50406**
Stddev	.082	.00060	.00260	.064	.00219	.00106	.19	.00577	.01604	.038	.00214	.00024	.00131	.00936
%RSD	.31598	.11493	.50640	.25551	.42389	.20963	.7508	1.1316	3.2531	.14842	.41979	.04667	.25242	1.8575
#1	25.884	.52197	.51481	24.889	.51872	.50797	25.64	.51390	.50440	25.329	.51228	.50435	.51722	.51068
#2	26.000	.52112	.51113	24.979	.51562	.50646	25.37	.50574	.48172	25.276	.50925	.50468	.51907	.49744
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value														
Range														

Elem	V_2924	Zn2062
Units	ppm	ppm
Avg	**.50021**	**.52103**
Stddev	.00577	.00338
%RSD	1.1536	.64916
#1	.49613	.51863
#2	.50429	.52342
Check ?	Chk Pass	Chk Pass
Value		
Range		

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1497.8**	**1112.2**	**33029.**	**10656.**
Stddev	4.7	7.1	147.	41.
%RSD	.31458	.63408	.44610	.38612
#1	1494.5	1107.3	33133.	10627.
#2	1501.1	1117.2	32924.	10685.

Sample Name: CCB-2388837 Acquired: 10/29/2014 21:18:44 Type: QC
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00016**	**-.00285**	**.00056**	**.00138**	**.00000**	**.00006**	**.01012**	**-.00003**	**.00006**	**.00016**	**.00025**	**.00188**
Stddev	.00010	.00205	.00135	.00039	.00000	.00001	.00474	.00001	.00035	.00026	.00010	.00047
%RSD	63.059	72.012	241.51	28.224	48.766	17.265	46.889	18.380	626.09	166.14	41.583	25.281
#1	-.00023	-.00140	-.00040	.00166	.00000	.00006	.01347	-.00003	.00030	-.00003	.00017	.00221
#2	-.00009	-.00430	.00152	.00111	.00000	.00007	.00676	-.00004	-.00019	.00034	.00032	.00154
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit												
Low Limit												

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.01241**	**.00058**	**-.00078**	**-.00025**	**-.00001**	**.02431**	**-.00027**	**-.00048**	**.0119**	**-.00065**	**.00390**	**.01072**
Stddev	.00225	.00027	.00578	.00004	.00031	.00533	.00067	.00070	.0219	.00080	.00165	.00606
%RSD	18.120	47.508	742.68	17.690	2140.9	21.931	242.97	145.41	184.3	122.05	42.309	56.555
#1	-.01082	.00038	.00331	-.00028	.00021	.02808	-.00074	-.00097	.0273	-.00122	.00507	.01501
#2	-.01400	.00077	-.00486	-.00022	-.00024	.02054	.00020	.00001	-.0036	-.00009	.00273	.00643
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit												
Low Limit												

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00045**	**.00028**	**.00067**	**.00288**	**.00009**	**.00068**
Stddev	.00069	.00013	.00008	.00312	.00004	.00006
%RSD	153.86	45.692	11.478	108.36	43.037	8.3462
#1	-.00094	.00036	.00072	.00067	.00006	.00072
#2	.00004	.00019	.00061	.00508	.00012	.00064
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1703.7**	**1155.0**	**34651.**	**10819.**
Stddev	4.9	5.0	21.	29.
%RSD	.28616	.43093	.05969	.26429
#1	1700.2	1151.5	34637.	10799.
#2	1707.1	1158.6	34666.	10839.

Sample Name: CCVL-2388843 Acquired: 10/29/2014 21:21:39 Type: QC
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00616**	**.19765**	**.01389**	**.02083**	**.00207**	**.00197**	**.48294**	**.00180**	**.00391**	**.00420**	**.00871**	**.04925**
Stddev	.00072	.00100	.00481	.00075	.00001	.00002	.00175	.00004	.00003	.00008	.00002	.00092
%RSD	11.624	.50825	34.621	3.5807	.35191	.81718	.36176	2.0615	.88438	1.8847	.19152	1.8735
#1	.00667	.19836	.01049	.02135	.00207	.00196	.48170	.00178	.00389	.00414	.00872	.04860
#2	.00566	.19694	.01729	.02030	.00208	.00198	.48417	.00183	.00394	.00425	.00870	.04991
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value												
Range												

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.46160**	**.02917**	**.20688**	**.00281**	**.01013**	**.97109**	**.00940**	**.01189**	**.1895**	**.01741**	**.02612**	**.49977**
Stddev	.01143	.00044	.00066	.00004	.00010	.00736	.00054	.00193	.0008	.00010	.00550	.01250
%RSD	2.4758	1.5069	.31942	1.3639	.95820	.75745	5.6980	16.226	.4185	.57532	21.071	2.5005
#1	.46968	.02948	.20735	.00278	.01007	.97629	.00978	.01053	.1890	.01734	.02222	.50861
#2	.45352	.02886	.20641	.00284	.01020	.96589	.00902	.01325	.1901	.01748	.03001	.49093
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value												
Range												

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00965**	**.00493**	**.00563**	**.01486**	**.00485**	**.01062**
Stddev	.00043	.00003	.00001	.00191	.00019	.00005
%RSD	4.4878	.69627	.20372	12.821	3.9757	.46601
#1	.00996	.00495	.00563	.01351	.00498	.01058
#2	.00934	.00491	.00564	.01621	.00471	.01065
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1684.5**	**1151.1**	**34914.**	**10796.**
Stddev	.8	.8	58.	41.
%RSD	.04505	.06948	.16557	.37769
#1	1685.0	1151.7	34873.	10825.
#2	1684.0	1150.6	34954.	10767.

Sample Name: 480-70057-b-5-b Acquired: 10/29/2014 21:24:30 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00018**	**.01629**	**.00100**	**.47321**	**.01548**	**.00005**	**164.63**	**.00024**	**.00045**
Stddev	.00062	.00539	.00308	.00156	.00012	.00004	2.66	.00001	.00007
%RSD	339.21	33.053	307.12	.32862	.76182	79.560	1.6174	2.3717	15.831
#1	.00062	.02010	-.00118	.47431	.01540	.00002	166.52	.00023	.00050
#2	-.00026	.01249	.00319	.47211	.01556	.00008	162.75	.00024	.00040
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00193**	**.00231**	**.03449**	**3.5659**	**.02602**	**49.122**	**.10014**	**.02760**	**193.81**
Stddev	.00022	.00009	.00044	.1088	.00043	.146	.00160	.00020	2.96
%RSD	11.432	4.0130	1.2875	3.0515	1.6558	.29677	1.5982	.71094	1.5286
#1	.00177	.00224	.03481	3.6428	.02632	49.225	.10127	.02774	195.90
#2	.00208	.00237	.03418	3.4889	.02571	49.019	.09901	.02746	191.71
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00427**	**.00484**	**190.6**	**-.00156**	**.00544**	**4.9563**	**-.00114**	**5.0401**	**.00138**
Stddev	.00054	.00351	.5	.00300	.01263	.0909	.00078	.0597	.00063
%RSD	12.576	72.520	.2617	192.40	232.09	1.8348	68.541	1.1844	45.436
#1	.00465	.00236	190.9	-.00368	-.00349	5.0206	-.00059	5.0823	.00094
#2	.00389	.00732	190.2	.00056	.01437	4.8920	-.00169	4.9979	.00182
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00119**	**.00023**	**.00471**
Stddev	.00044	.00005	.00034
%RSD	36.620	22.943	7.1224
#1	-.00088	.00019	.00494
#2	-.00150	.00026	.00447
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1343.2**	**1008.7**	**30613.**	**10510.**
Stddev	1.2	3.3	50.	123.
%RSD	.09004	.32863	.16495	1.1732
#1	1342.3	1006.3	30648.	10423.
#2	1344.0	1011.0	30577.	10597.
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-70057-b-6-b Acquired: 10/29/2014 21:27:28 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00023**	**.00794**	**.01744**	**.41073**	**.02337**	**.00003**	**221.31**	**.00002**	**.00051**
Stddev	.00072	.00215	.00116	.00073	.00000	.00003	.78	.00007	.00004
%RSD	315.62	27.080	6.6346	.17671	.01354	108.42	.35093	427.07	8.1766
#1	-.00074	.00642	.01663	.41124	.02337	.00005	221.86	.00006	.00048
#2	.00028	.00947	.01826	.41021	.02337	.00001	220.76	-.00003	.00054
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00143**	**.00214**	**.00313**	**3.4644**	**.02083**	**74.790**	**.41350**	**.03678**	**313.26**
Stddev	.00110	.00022	.00046	.0276	.00022	.017	.00094	.00025	.46
%RSD	77.143	10.299	14.717	.79519	1.0445	.02272	.22660	.66688	.14757
#1	.00221	.00198	.00345	3.4450	.02098	74.778	.41284	.03696	313.58
#2	.00065	.00230	.00280	3.4839	.02067	74.802	.41417	.03661	312.93
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00138**	**.00266**	**135.5**	**-.00282**	**.00776**	**6.1268**	**.00098**	**6.1896**	**.00133**
Stddev	.00047	.00164	.4	.00105	.00242	.0154	.00053	.0201	.00033
%RSD	34.176	61.565	.2712	37.089	31.252	.25087	54.422	.32546	25.024
#1	.00105	.00150	135.8	-.00356	.00604	6.1377	.00135	6.2038	.00109
#2	.00171	.00383	135.3	-.00208	.00947	6.1159	.00060	6.1753	.00156
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00365**	**.00015**	**.00290**
Stddev	.00329	.00013	.00210
%RSD	90.223	83.910	72.511
#1	-.00132	.00006	.00438
#2	-.00598	.00024	.00141
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1290.3**	**992.16**	**29793.**	**10248.**
Stddev	3.4	1.44	51.	69.
%RSD	.26235	.14482	.17003	.67311
#1	1287.9	991.15	29829.	10297.
#2	1292.7	993.18	29757.	10200.
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-70057-b-7-b Acquired: 10/29/2014 21:30:32 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00042**	**.02147**	**.02022**	**.46741**	**.02805**	**.00004**	**208.35**	**.00020**	**.00033**
Stddev	.00082	.00840	.00287	.00233	.00003	.00007	.93	.00013	.00021
%RSD	193.92	39.100	14.200	.49833	.10733	186.76	.44460	65.494	62.332
#1	.00016	.02741	.01819	.46906	.02802	.00009	209.01	.00011	.00019
#2	-.00100	.01554	.02225	.46577	.02807	-.00001	207.70	.00029	.00048
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00136**	**.00210**	**.80001**	**3.8542**	**.03138**	**72.286**	**.15587**	**.03061**	**300.29**
Stddev	.00029	.00031	.00434	.0122	.00030	.160	.00076	.00019	.42
%RSD	21.344	14.897	.54244	.31549	.95300	.22094	.48620	.62794	.13991
#1	.00115	.00188	.80308	3.8628	.03159	72.399	.15641	.03047	300.58
#2	.00156	.00232	.79694	3.8456	.03117	72.173	.15534	.03074	299.99
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00138**	**.00120**	**100.5**	**-.00150**	**.00657**	**5.5626**	**-.00014**	**7.0390**	**.00149**
Stddev	.00011	.00076	.4	.00308	.00188	.0006	.00027	.0620	.00043
%RSD	8.2701	63.739	.3908	205.97	28.560	.01152	192.57	.88030	28.530
#1	.00146	.00174	100.8	.00068	.00524	5.5621	-.00034	6.9952	.00119
#2	.00130	.00066	100.2	-.00367	.00790	5.5630	.00005	7.0828	.00180
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00350**	**.00034**	**.00210**
Stddev	.00292	.00018	.00060
%RSD	83.356	53.843	28.432
#1	-.00556	.00046	.00253
#2	-.00144	.00021	.00168
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1294.4**	**995.71**	**29725.**	**10336.**
Stddev	3.7	1.77	122.	21.
%RSD	.28723	.17787	.40955	.20480
#1	1291.7	994.46	29639.	10321.
#2	1297.0	996.96	29811.	10351.
Check ?	None	None	None	None
Value				
Range				

Sample Name: BLANK Acquired: 10/29/2014 21:33:36 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00050**	**-.00757**	**-.00347**	**.00148**	**-.00003**	**.00000**	**.01405**	**-.00023**	**-.00012**
Stddev	.00001	.01001	.00087	.00035	.00000	.00001	.01273	.00008	.00003
%RSD	2.6893	132.17	25.043	23.738	15.120	388.53	90.622	35.988	23.141
#1	-.00051	-.01465	-.00409	.00172	-.00002	.00001	.02305	-.00028	-.00014
#2	-.00049	-.00050	-.00286	.00123	-.00003	-.00001	.00505	-.00017	-.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00017**	**.00028**	**-.00027**	**.00029**	**.00005**	**-.00251**	**.00004**	**-.00002**	**.04950**
Stddev	.00022	.00041	.00161	.00165	.00013	.00418	.00004	.00026	.02040
%RSD	128.76	146.92	588.85	566.16	257.18	166.47	102.80	1559.9	41.206
#1	-.00032	-.00001	.00086	-.00088	.00015	-.00546	.00007	-.00020	.06392
#2	-.00002	.00056	-.00141	.00146	-.00004	.00044	.00001	.00017	.03507
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00017**	**.00184**	**.0023**	**-.00122**	**.00186**	**-.00161**	**-.00058**	**.00048**	**.00045**
Stddev	.00043	.00095	.0044	.00053	.00113	.00362	.00002	.00035	.00028
%RSD	257.79	51.647	196.4	43.867	60.756	224.36	3.2826	72.518	61.404
#1	-.00047	.00117	-.0009	-.00159	.00266	-.00417	-.00059	.00073	.00065
#2	.00014	.00252	.0054	-.00084	.00106	.00095	-.00057	.00023	.00026
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.00016**	**-.00002**	**.00060**
Stddev	.00354	.00028	.00077
%RSD	2229.0	1649.8	130.21
#1	-.00234	.00018	.00114
#2	.00266	-.00022	.00005
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1673.0**	**1130.7**	**34275.**	**10765.**
Stddev	4.7	1.4	207.	98.
%RSD	.28135	.12132	.60290	.91083
#1	1669.6	1129.8	34421.	10834.
#2	1676.3	1131.7	34129.	10695.
Check ?	None	None	None	None
Value				
Range				

Sample Name: mb 480-210265/1-a Acquired: 10/29/2014 21:36:28 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**.00993**	**.00022**	**.00188**	**.00053**	**-.00001**	**.02658**	**-.00028**	**-.00003**
Stddev	.00046	.01455	.00321	.00025	.00001	.00003	.00074	.00009	.00025
%RSD	1142.8	146.63	1484.5	13.489	1.4919	261.95	2.7850	31.794	966.54
#1	-.00037	-.00037	-.00205	.00170	.00054	.00001	.02606	-.00022	.00015
#2	.00029	.02022	.00248	.00206	.00053	-.00003	.02711	-.00034	-.00020
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00005**	**-.00007**	**-.00008**	**-.00725**	**.00030**	**-.00339**	**-.00020**	**-.00018**	**.02509**
Stddev	.00048	.00009	.00031	.00899	.00023	.00249	.00009	.00006	.00378
%RSD	943.38	139.54	374.27	124.08	79.280	73.380	43.682	33.899	15.080
#1	.00039	-.00000	.00014	-.01361	.00013	-.00163	-.00026	-.00023	.02777
#2	-.00029	-.00013	-.00030	-.00089	.00046	-.00516	-.00014	-.00014	.02242
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00046**	**.00046**	**-.0017**	**-.00050**	**-.00002**	**.00076**	**-.00039**	**.00024**	**.00066**
Stddev	.00032	.00026	.0019	.00033	.00365	.00171	.00052	.00002	.00019
%RSD	68.226	56.385	109.1	66.772	19991.	223.91	131.61	9.0800	29.348
#1	-.00024	.00028	-.0031	-.00026	.00256	-.00045	-.00076	.00023	.00052
#2	-.00069	.00065	-.0004	-.00073	-.00260	.00197	-.00003	.00026	.00080
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.00115**	**.00003**	**.00063**
Stddev	.00236	.00025	.00107
%RSD	205.63	834.36	169.65
#1	-.00052	-.00014	.00138
#2	.00282	.00020	-.00013
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1705.1**	**1157.1**	**35351.**	**10941.**
Stddev	1.6	4.7	114.	13.
%RSD	.09504	.40705	.32287	.12043
#1	1706.3	1160.4	35432.	10932.
#2	1704.0	1153.7	35271.	10951.
Check ?	None	None	None	None
Value				
Range				

Sample Name: lcs 480-210265/2-a Acquired: 10/29/2014 21:39:20 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05199**	**10.166**	**.19853**	**.20462**	**.20974**	**.19892**	**9.6903**	**.19831**	**.19882**
Stddev	.00032	.017	.00170	.00089	.00183	.00070	.0609	.00053	.00077
%RSD	.61980	.17154	.85513	.43692	.87231	.35347	.62834	.26801	.38951
#1	.05222	10.154	.19973	.20399	.21103	.19842	9.6472	.19868	.19937
#2	.05176	10.179	.19733	.20525	.20844	.19942	9.7333	.19793	.19828
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.19893**	**.19950**	**9.9276**	**10.022**	**.20038**	**10.284**	**.20782**	**.20878**	**9.9416**
Stddev	.00082	.00105	.0313	.023	.00052	.052	.00038	.00106	.0073
%RSD	.41333	.52855	.31481	.23083	.26172	.50346	.18430	.50696	.07293
#1	.19835	.20025	9.9055	10.005	.20075	10.321	.20810	.20803	9.9467
#2	.19951	.19876	9.9497	10.038	.20001	10.247	.20755	.20953	9.9364
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.19974**	**.19433**	**10.22**	**.20697**	**.20657**	**10.159**	**.19275**	**.20143**	**.20297**
Stddev	.00041	.00100	.03	.00048	.00224	.006	.00152	.00043	.00005
%RSD	.20301	.51394	.3087	.23097	1.0857	.05436	.78727	.21357	.02437
#1	.20003	.19363	10.25	.20731	.20815	10.155	.19382	.20112	.20301
#2	.19945	.19504	10.20	.20663	.20498	10.163	.19167	.20173	.20294
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.20292**	**.20719**	**.20431**
Stddev	.00713	.00019	.00047
%RSD	3.5161	.09308	.22920
#1	.20797	.20732	.20464
#2	.19788	.20705	.20398
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1572.9**	**1118.7**	**33854.**	**10875.**
Stddev	.7	1.8	144.	34.
%RSD	.04713	.16277	.42611	.31463
#1	1572.4	1120.0	33752.	10900.
#2	1573.4	1117.4	33956.	10851.
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-70034-c-1-d Acquired: 10/29/2014 21:42:03 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00035**	**.02996**	**-.00000**	**.10717**	**.15951**	**.00005**	**88.643**	**.00003**	**.00017**
Stddev	.00026	.00856	.00385	.00053	.00095	.00003	.341	.00009	.00002
%RSD	74.727	28.569	111290.	.49227	.59793	71.937	.38496	345.22	9.7843
#1	.00016	.02391	.00272	.10754	.15884	.00007	88.402	-.00004	.00018
#2	.00053	.03601	-.00272	.10679	.16018	.00002	88.885	.00009	.00015
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00113**	**.00135**	**2.1741**	**2.2327**	**.00693**	**60.653**	**.01948**	**.00111**	**26.002**
Stddev	.00041	.00033	.0092	.0011	.00001	.251	.00008	.00008	.015
%RSD	36.631	24.293	.42198	.04839	.07797	.41308	.41625	6.8230	.05623
#1	.00143	.00112	2.1806	2.2334	.00693	60.475	.01942	.00106	25.991
#2	.00084	.00158	2.1676	2.2319	.00693	60.830	.01954	.00116	26.012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00170**	**.00397**	**.3912**	**-.00251**	**-.00375**	**11.261**	**-.00121**	**1.3146**	**.00059**
Stddev	.00027	.00123	.0011	.00049	.00664	.012	.00011	.0016	.00008
%RSD	15.594	30.986	.2824	19.584	177.15	.10892	9.3524	.11830	13.732
#1	.00151	.00484	.3920	-.00216	-.00844	11.269	-.00113	1.3135	.00054
#2	.00189	.00310	.3905	-.00286	.00095	11.252	-.00129	1.3157	.00065
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.00053**	**.00027**	**.00784**
Stddev	.00148	.00013	.00004
%RSD	279.43	46.571	.46422
#1	-.00052	.00036	.00782
#2	.00158	.00018	.00787
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1458.9**	**1061.5**	**32137.**	**10654.**
Stddev	.2	1.3	149.	9.
%RSD	.01275	.12118	.46322	.08578
#1	1458.8	1062.5	32242.	10660.
#2	1459.0	1060.6	32032.	10647.
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-70034-c-2-b Acquired: 10/29/2014 21:44:51 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00049**	**.01863**	**.01554**	**.30987**	**.14272**	**.00008**	**151.10**	**.00006**	**.00144**
Stddev	.00039	.00101	.00471	.00175	.00146	.00000	.59	.00017	.00027
%RSD	80.017	5.4151	30.342	.56554	1.0200	1.5489	.39029	304.59	19.001
#1	-.00021	.01934	.01220	.31110	.14375	.00008	151.52	.00018	.00125
#2	-.00077	.01792	.01887	.30863	.14169	.00009	150.68	-.00007	.00164
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00136**	**.00209**	**1.4967**	**22.542**	**.00942**	**63.988**	**.16667**	**.00172**	**33.291**
Stddev	.00037	.00049	.0147	.057	.00055	.393	.00060	.00020	.210
%RSD	27.355	23.341	.97895	.25194	5.8467	.61409	.36216	11.687	.63133
#1	.00162	.00243	1.5070	22.582	.00903	64.266	.16710	.00186	33.440
#2	.00109	.00174	1.4863	22.502	.00981	63.710	.16624	.00158	33.142
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00279**	**.00590**	**85.26**	**-.00006**	**.00122**	**15.939**	**-.00128**	**.29852**	**.00117**
Stddev	.00195	.00048	.38	.00384	.00591	.038	.00054	.00041	.00037
%RSD	70.087	8.1810	.4472	6761.5	484.62	.23555	41.958	.13634	31.370
#1	.00141	.00556	85.53	-.00277	.00540	15.966	-.00090	.29881	.00091
#2	.00417	.00624	84.99	.00266	-.00296	15.912	-.00166	.29823	.00143
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00607**	**.00023**	**.00373**
Stddev	.00058	.00023	.00033
%RSD	9.5763	96.905	8.9092
#1	-.00566	.00039	.00349
#2	-.00648	.00007	.00396
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1413.1**	**1035.4**	**31871.**	**10573.**
Stddev	1.5	4.8	193.	27.
%RSD	.10536	.46635	.60492	.25467
#1	1412.1	1032.0	31735.	10554.
#2	1414.2	1038.8	32008.	10592.
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-70034-c-2-bSD@5 Acquired: 10/29/2014 21:47:37 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00048**	**.00618**	**.00046**	**.05842**	**.02854**	**.00001**	**29.517**	**-.00003**	**-.00002**
Stddev	.00049	.01330	.00305	.00017	.00001	.00001	.688	.00027	.00023
%RSD	102.74	215.15	669.28	.28444	.03118	118.72	2.3301	945.29	1201.5
#1	-.00013	.01559	.00261	.05854	.02854	.00000	29.031	-.00022	-.00018
#2	-.00083	-.00322	-.00170	.05831	.02853	.00002	30.004	.00016	.00014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00090**	**.00053**	**.29802**	**4.3298**	**.00194**	**12.461**	**.03414**	**-.00025**	**6.4386**
Stddev	.00032	.00024	.00138	.0191	.00039	.012	.00011	.00010	.0054
%RSD	35.470	45.285	.46150	.44216	20.332	.09601	.31508	40.526	.08332
#1	.00113	.00069	.29899	4.3163	.00222	12.469	.03406	-.00032	6.4424
#2	.00068	.00036	.29704	4.3434	.00166	12.452	.03422	-.00018	6.4348
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00018**	**.00276**	**15.70**	**-.00189**	**.00054**	**3.0756**	**-.00027**	**.05875**	**.00017**
Stddev	.00055	.00012	.05	.00226	.00109	.0485	.00033	.00032	.00012
%RSD	309.81	4.4299	.3295	119.67	202.72	1.5768	124.08	.55083	70.177
#1	.00021	.00285	15.67	-.00029	.00131	3.0413	-.00003	.05852	.00008
#2	-.00057	.00267	15.74	-.00349	-.00023	3.1099	-.00050	.05898	.00025
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00374**	**-.00027**	**.00071**
Stddev	.00019	.00020	.00012
%RSD	5.1184	73.910	16.798
#1	-.00387	-.00013	.00062
#2	-.00360	-.00041	.00079
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1579.5**	**1108.5**	**33430.**	**10759.**
Stddev	4.4	3.3	12.	108.
%RSD	.27606	.30056	.03481	1.0015
#1	1582.6	1110.8	33421.	10836.
#2	1576.4	1106.1	33438.	10683.
Check ?	None	None	None	None
Value				
Range				

Sample Name: CCV-2388838 Acquired: 10/29/2014 21:50:27 Type: QC
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.52531**	**26.140**	**.50692**	**.49940**	**.51138**	**.50192**	**24.936**	**.50332**	**.50039**	**.50419**	**.49739**	**25.357**	**25.255**	**.50760**
Stddev	.00018	.202	.00372	.00461	.00305	.00342	.209	.00117	.00006	.00203	.00025	.183	.205	.00401
%RSD	.03340	.77278	.73341	.92274	.59716	.68208	.83688	.23148	.01104	.40252	.04927	.72113	.81291	.79096
#1	.52543	25.997	.50955	.50266	.50922	.49950	24.789	.50415	.50043	.50562	.49722	25.228	25.110	.50476
#2	.52519	26.283	.50429	.49614	.51354	.50434	25.084	.50250	.50035	.50275	.49757	25.486	25.400	.51043
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value														
Range														

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**25.727**	**.51770**	**.51207**	**25.090**	**.51649**	**.50456**	**25.62**	**.51116**	**.49879**	**25.512**	**.51171**	**.50917**	**.51484**	**.50885**
Stddev	.086	.00079	.00102	.182	.00168	.00396	.10	.00246	.00255	.177	.00179	.00512	.00027	.00416
%RSD	.33587	.15282	.19984	.72568	.32558	.78562	.3877	.48062	.51069	.69570	.35063	1.0056	.05193	.81817
#1	25.666	.51826	.51279	24.962	.51530	.50736	25.69	.51289	.50059	25.387	.51298	.50555	.51503	.50591
#2	25.788	.51714	.51134	25.219	.51768	.50176	25.55	.50942	.49699	25.638	.51044	.51279	.51465	.51180
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value														
Range														

Elem	V_2924	Zn2062
Units	ppm	ppm
Avg	**.50481**	**.51650**
Stddev	.00157	.00012
%RSD	.31131	.02284
#1	.50592	.51658
#2	.50369	.51641
Check ?	Chk Pass	Chk Pass
Value		
Range		

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1494.2**	**1107.3**	**33164.**	**10605.**
Stddev	4.4	8.8	13.	42.
%RSD	.29364	.79378	.03950	.39583
#1	1491.1	1101.1	33155.	10635.
#2	1497.3	1113.5	33173.	10575.

Sample Name: CCB-2388837 Acquired: 10/29/2014 21:53:11 Type: QC
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00081**	**-.00189**	**-.00095**	**.00132**	**.00027**	**.00003**	**.00113**	**-.00021**	**.00009**	**.00028**	**.00043**	**.00052**
Stddev	.00047	.00843	.00054	.00034	.00036	.00001	.00163	.00004	.00010	.00038	.00001	.00126
%RSD	58.706	445.27	56.892	25.528	134.16	20.772	144.88	17.267	112.42	137.04	2.0439	241.69
#1	.00114	-.00786	-.00133	.00155	.00053	.00004	-.00003	-.00019	.00002	.00001	.00043	.00142
#2	.00047	.00407	-.00057	.00108	.00001	.00003	.00228	-.00024	.00017	.00055	.00042	-.00037
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit												
Low Limit												

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.01715**	**-.00004**	**.03387**	**-.00004**	**-.00016**	**.00580**	**-.00092**	**.00071**	**-.0013**	**.00028**	**-.00064**	**.01041**
Stddev	.01854	.00010	.04939	.00040	.00008	.00201	.00005	.00135	.0035	.00026	.00985	.01118
%RSD	108.10	237.60	145.81	1131.3	51.010	34.687	5.7818	189.70	259.2	94.492	1548.8	107.40
#1	-.03027	.00003	.06879	.00025	-.00022	.00438	-.00095	.00166	-.0038	.00046	-.00760	.00250
#2	-.00404	-.00012	-.00105	-.00032	-.00010	.00723	-.00088	-.00024	.0011	.00009	.00633	.01831
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit												
Low Limit												

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00081**	**-.00001**	**.00056**	**-.00051**	**.00026**	**.00014**
Stddev	.00005	.00009	.00002	.00549	.00028	.00186
%RSD	5.6480	1090.7	3.9110	1071.0	106.10	1299.2
#1	-.00084	.00005	.00058	-.00440	.00046	-.00117
#2	-.00077	-.00007	.00055	.00337	.00007	.00146
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1700.4**	**1152.4**	**34849.**	**10818.**
Stddev	10.7	7.2	84.	91.
%RSD	.63133	.62209	.24247	.83898
#1	1708.0	1157.4	34909.	10754.
#2	1692.8	1147.3	34790.	10882.

Sample Name: CCVL-2388843 Acquired: 10/29/2014 21:56:05 Type: QC
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00634**	**.20607**	**.01199**	**.02031**	**.00210**	**.00197**	**.47866**	**.00178**	**.00382**	**.00421**	**.00906**	**.04848**
Stddev	.00009	.00476	.00140	.00026	.00003	.00004	.00225	.00009	.00000	.00017	.00033	.00080
%RSD	1.4132	2.3076	11.664	1.2959	1.4252	1.9781	.46921	5.2919	.11796	3.9517	3.6525	1.6516
#1	.00640	.20943	.01297	.02049	.00212	.00200	.48025	.00171	.00382	.00433	.00929	.04791
#2	.00627	.20271	.01100	.02012	.00208	.00194	.47707	.00185	.00382	.00410	.00882	.04904
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value												
Range												

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.48650**	**.02940**	**.20035**	**.00281**	**.01007**	**.96422**	**.00925**	**.01016**	**.1881**	**.01717**	**.02293**	**.48726**
Stddev	.00097	.00006	.00145	.00006	.00010	.00064	.00026	.00046	.0042	.00134	.00070	.00092
%RSD	.19918	.19976	.72355	2.0839	.99583	.06616	2.8020	4.5311	2.254	7.7991	3.0454	.18886
#1	.48581	.02936	.20137	.00277	.00999	.96467	.00943	.01048	.1851	.01623	.02244	.48661
#2	.48718	.02944	.19932	.00285	.01014	.96377	.00906	.00983	.1911	.01812	.02342	.48791
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value												
Range												

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00900**	**.00492**	**.00529**	**.01915**	**.00476**	**.00915**
Stddev	.00011	.00001	.00037	.00091	.00017	.00140
%RSD	1.2625	.15006	7.0164	4.7387	3.6053	15.277
#1	.00908	.00492	.00503	.01979	.00488	.01014
#2	.00892	.00491	.00555	.01851	.00464	.00816
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1691.5**	**1155.4**	**34658.**	**10798.**
Stddev	2.6	2.7	159.	22.
%RSD	.15601	.23648	.45833	.20526
#1	1689.6	1153.5	34546.	10783.
#2	1693.4	1157.3	34770.	10814.

Sample Name: 480-70034-c-2-bPDS Acquired: 10/29/2014 21:58:58 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05539**	**10.451**	**.23465**	**.50962**	**.34749**	**.20567**	**159.75**	**.21214**	**.20665**
Stddev	.00028	.037	.00075	.00221	.00172	.00100	.42	.00016	.00054
%RSD	.51432	.35768	.32161	.43382	.49390	.48612	.26426	.07348	.26263
#1	.05519	10.424	.23411	.50805	.34870	.20638	160.05	.21203	.20627
#2	.05559	10.477	.23518	.51118	.34628	.20497	159.45	.21225	.20704
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.20252**	**.21228**	**11.714**	**32.243**	**.21452**	**73.264**	**.37233**	**.20974**	**42.816**
Stddev	.00102	.00098	.049	.022	.00097	.049	.00036	.00073	.012
%RSD	.50586	.46147	.41935	.06674	.44999	.06636	.09610	.34882	.02734
#1	.20325	.21298	11.749	32.259	.21520	73.299	.37207	.20922	42.824
#2	.20180	.21159	11.679	32.228	.21384	73.230	.37258	.21025	42.808
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.21022**	**.21233**	**92.82**	**.21732**	**.21480**	**26.081**	**.20661**	**.49085**	**.20848**
Stddev	.00123	.00288	.00	.00003	.00582	.051	.00339	.00002	.00051
%RSD	.58669	1.3573	.0002	.01225	2.7084	.19436	1.6402	.00482	.24545
#1	.20934	.21029	92.82	.21734	.21891	26.117	.20421	.49086	.20884
#2	.21109	.21437	92.82	.21730	.21069	26.045	.20900	.49083	.20811
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.20920**	**.21159**	**.21047**
Stddev	.00267	.00030	.00271
%RSD	1.2750	.14347	1.2891
#1	.21109	.21181	.20856
#2	.20732	.21138	.21239
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1387.9**	**1040.9**	**31451.**	**10438.**
Stddev	4.4	1.8	77.	35.
%RSD	.31953	.17139	.24364	.33449
#1	1391.0	1042.2	31397.	10413.
#2	1384.8	1039.7	31505.	10463.
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-70034-c-2-c ms Acquired: 10/29/2014 22:01:38 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05228**	**10.241**	**.21867**	**.51852**	**.34594**	**.19550**	**162.29**	**.20414**	**.20297**
Stddev	.00054	.063	.00655	.00141	.00156	.00027	1.53	.00076	.00061
%RSD	1.0241	.61045	2.9964	.27241	.44998	.13723	.94521	.37015	.30100
#1	.05190	10.197	.22330	.51752	.34484	.19531	161.20	.20361	.20254
#2	.05266	10.285	.21403	.51952	.34704	.19569	163.37	.20468	.20340
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.19327**	**.20304**	**11.104**	**32.725**	**.21166**	**73.908**	**.36637**	**.20692**	**43.733**
Stddev	.00009	.00206	.028	.100	.00093	.163	.00060	.00018	.039
%RSD	.04674	1.0148	.25182	.30622	.43959	.22092	.16433	.08906	.08974
#1	.19334	.20158	11.084	32.654	.21231	73.793	.36595	.20705	43.706
#2	.19321	.20449	11.124	32.796	.21100	74.024	.36680	.20678	43.761
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.20417**	**.20634**	**95.95**	**.21080**	**.21601**	**26.326**	**.20207**	**.49595**	**.19982**
Stddev	.00208	.00097	.33	.00012	.00062	.174	.00083	.00190	.00132
%RSD	1.0186	.46976	.3480	.05690	.28853	.65953	.41106	.38287	.66202
#1	.20270	.20565	95.72	.21089	.21557	26.203	.20266	.49461	.19889
#2	.20564	.20702	96.19	.21072	.21646	26.449	.20148	.49729	.20076
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.20847**	**.20248**	**.20223**
Stddev	.00772	.00129	.00367
%RSD	3.7019	.63894	1.8170
#1	.20301	.20156	.20483
#2	.21392	.20339	.19963
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1377.5**	**1036.3**	**31606.**	**10533.**
Stddev	4.4	3.0	95.	37.
%RSD	.31850	.28483	.30182	.35282
#1	1380.6	1038.4	31674.	10560.
#2	1374.4	1034.3	31539.	10507.
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-70034-c-2-d msd Acquired: 10/29/2014 22:04:19 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05345**	**10.394**	**.22251**	**.51778**	**.34859**	**.19874**	**166.72**	**.20450**	**.20268**
Stddev	.00078	.010	.00878	.00173	.00005	.00064	.57	.00074	.00098
%RSD	1.4529	.09798	3.9442	.33315	.01411	.31990	.34166	.36411	.48193
#1	.05290	10.387	.22871	.51900	.34855	.19919	166.32	.20503	.20337
#2	.05400	10.402	.21630	.51656	.34862	.19829	167.13	.20398	.20199
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.19735**	**.20608**	**11.295**	**33.053**	**.21340**	**74.653**	**.36969**	**.20683**	**44.278**
Stddev	.00093	.00121	.003	.031	.00037	.057	.00040	.00017	.005
%RSD	.47088	.58830	.02958	.09305	.17365	.07587	.10768	.08165	.01055
#1	.19670	.20522	11.292	33.075	.21366	74.693	.36998	.20671	44.281
#2	.19801	.20694	11.297	33.031	.21314	74.613	.36941	.20695	44.274
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.20538**	**.20427**	**95.75**	**.21257**	**.20572**	**26.907**	**.20273**	**.50246**	**.20338**
Stddev	.00053	.00093	.01	.00208	.00816	.031	.00213	.00184	.00009
%RSD	.25978	.45304	.0092	.97642	3.9661	.11661	1.0494	.36658	.04226
#1	.20576	.20492	95.74	.21110	.19995	26.885	.20423	.50376	.20344
#2	.20500	.20361	95.75	.21404	.21149	26.930	.20122	.50115	.20332
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.21352**	**.20587**	**.20454**
Stddev	.01062	.00036	.00320
%RSD	4.9729	.17536	1.5665
#1	.22103	.20613	.20227
#2	.20601	.20562	.20680
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1386.8**	**1044.6**	**31420.**	**10399.**
Stddev	.3	1.3	50.	47.
%RSD	.02332	.12332	.15882	.44866
#1	1387.1	1045.5	31455.	10432.
#2	1386.6	1043.7	31385.	10366.
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-70034-c-3-b Acquired: 10/29/2014 22:07:00 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00036**	**.01807**	**.00633**	**3.2403**	**.59575**	**.00002**	**96.252**	**.00004**	**.00399**
Stddev	.00014	.00310	.00198	.0041	.00394	.00002	.029	.00001	.00019
%RSD	40.714	17.141	31.361	.12549	.66058	77.988	.03035	27.673	4.8468
#1	-.00025	.01588	.00493	3.2432	.59853	.00004	96.272	.00005	.00412
#2	-.00046	.02026	.00773	3.2375	.59297	.00001	96.231	.00003	.00385
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00270**	**.00222**	**9.9341**	**20.680**	**.03167**	**109.28**	**.01977**	**.00091**	**299.02**
Stddev	.00020	.00014	.0263	.108	.00006	.65	.00011	.00026	.95
%RSD	7.2494	6.5087	.26437	.52095	.18144	.59668	.55986	28.763	.31902
#1	.00256	.00233	9.9527	20.756	.03171	108.82	.01969	.00072	299.69
#2	.00283	.00212	9.9155	20.604	.03163	109.74	.01984	.00109	298.34
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.03046**	**.00168**	**1.823**	**-.00102**	**-.00656**	**12.869**	**.00109**	**1.0096**	**.00128**
Stddev	.00048	.00077	.014	.00111	.00127	.002	.00041	.0046	.00018
%RSD	1.5719	45.635	.7552	109.13	19.348	.01282	37.382	.45248	14.434
#1	.03080	.00114	1.833	-.00023	-.00746	12.870	.00080	1.0128	.00115
#2	.03013	.00222	1.813	-.00180	-.00566	12.868	.00138	1.0064	.00141
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00085**	**.00200**	**.00203**
Stddev	.00572	.00033	.00021
%RSD	670.97	16.337	10.525
#1	.00319	.00223	.00188
#2	-.00490	.00177	.00219
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1311.6**	**1004.9**	**30261.**	**10367.**
Stddev	2.3	.1	132.	16.
%RSD	.17680	.00498	.43705	.15683
#1	1310.0	1004.9	30354.	10355.
#2	1313.3	1004.8	30167.	10378.
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-70034-c-4-b Acquired: 10/29/2014 22:09:58 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00054**	**.01025**	**.00387**	**.24755**	**.04845**	**.00003**	**154.32**	**.00005**	**.00016**
Stddev	.00058	.00153	.00235	.00186	.00022	.00001	.38	.00021	.00002
%RSD	107.84	14.884	60.719	.75277	.44939	31.746	.24305	382.37	14.812
#1	-.00095	.01133	.00221	.24887	.04830	.00004	154.05	.00020	.00018
#2	-.00013	.00917	.00554	.24623	.04860	.00003	154.58	-.00009	.00014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00161**	**.00146**	**7.2371**	**8.5955**	**.00951**	**76.177**	**.41581**	**.00105**	**35.676**
Stddev	.00022	.00037	.0126	.0265	.00035	.023	.00063	.00031	.206
%RSD	13.875	25.042	.17421	.30815	3.6499	.02998	.15249	29.030	.57717
#1	.00177	.00120	7.2282	8.5767	.00926	76.161	.41537	.00127	35.531
#2	.00145	.00172	7.2460	8.6142	.00975	76.193	.41626	.00084	35.822
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00345**	**.00336**	**71.43**	**-.00324**	**.00437**	**10.388**	**-.00033**	**.49187**	**.00105**
Stddev	.00003	.00230	.26	.00075	.00659	.012	.00042	.00174	.00030
%RSD	.74139	68.516	.3650	23.202	150.78	.11476	130.21	.35448	28.059
#1	.00347	.00499	71.61	-.00271	-.00029	10.397	-.00063	.49063	.00084
#2	.00343	.00173	71.24	-.00378	.00903	10.380	-.00003	.49310	.00126
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00087**	**.00034**	**.00015**
Stddev	.00735	.00037	.00012
%RSD	844.48	106.98	76.275
#1	.00433	.00008	.00007
#2	-.00607	.00060	.00023
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1404.3**	**1027.7**	**31458.**	**10525.**
Stddev	2.3	2.3	144.	4.
%RSD	.16632	.22085	.45765	.03355
#1	1402.7	1026.0	31560.	10522.
#2	1406.0	1029.3	31356.	10527.
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-70034-c-5-b Acquired: 10/29/2014 22:12:44 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00040**	**.01088**	**.00285**	**.09254**	**.05783**	**-.00002**	**198.43**	**.00016**	**-.00021**
Stddev	.00004	.00366	.00295	.00019	.00067	.00001	2.89	.00003	.00030
%RSD	9.4343	33.667	103.62	.20205	1.1583	74.169	1.4573	16.641	139.31
#1	-.00042	.00829	.00493	.09267	.05735	-.00001	200.48	.00014	-.00042
#2	-.00037	.01347	.00076	.09240	.05830	-.00002	196.39	.00018	-.00000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00142**	**.00271**	**1.4929**	**3.3965**	**.01098**	**103.71**	**.05522**	**.00072**	**50.802**
Stddev	.00013	.00018	.0140	.0211	.00037	.81	.00045	.00047	.216
%RSD	9.1590	6.5012	.93475	.62142	3.3919	.78070	.80985	65.418	.42420
#1	.00152	.00284	1.5028	3.3816	.01124	103.14	.05491	.00039	50.649
#2	.00133	.00259	1.4830	3.4115	.01071	104.28	.05554	.00105	50.954
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00385**	**-.00055**	**164.9**	**-.00329**	**.01019**	**9.9488**	**-.00020**	**.76506**	**.00105**
Stddev	.00051	.00058	.1	.00071	.00567	.0098	.00023	.00051	.00021
%RSD	13.332	106.41	.0611	21.686	55.606	.09827	112.29	.06619	20.103
#1	.00421	-.00096	165.0	-.00379	.00619	9.9419	-.00004	.76470	.00090
#2	.00349	-.00014	164.8	-.00278	.01420	9.9557	-.00036	.76542	.00120
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.00279**	**-.00028**	**.00648**
Stddev	.00044	.00017	.00083
%RSD	15.659	58.397	12.869
#1	.00248	-.00017	.00589
#2	.00310	-.00040	.00707
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1371.8**	**1013.9**	**31134.**	**10436.**
Stddev	2.1	3.6	182.	65.
%RSD	.15408	.35611	.58544	.62649
#1	1373.3	1016.5	31263.	10389.
#2	1370.3	1011.4	31005.	10482.
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-70035-f-1-b Acquired: 10/29/2014 22:15:37 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00043**	**.01423**	**.01350**	**.16858**	**.11832**	**.00002**	**104.45**	**.00007**	**.00014**
Stddev	.00074	.00539	.00420	.00070	.00079	.00002	.30	.00013	.00010
%RSD	173.71	37.864	31.137	.41562	.66504	114.68	.29188	177.50	72.951
#1	.00010	.01042	.01647	.16907	.11888	.00000	104.24	.00016	.00007
#2	-.00095	.01804	.01053	.16808	.11777	.00004	104.67	-.00002	.00021
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00155**	**.00123**	**3.1104**	**2.5206**	**.00309**	**79.037**	**.00846**	**.00062**	**61.080**
Stddev	.00031	.00021	.0044	.0321	.00027	.532	.00004	.00025	.058
%RSD	20.053	16.706	.14041	1.2746	8.7964	.67283	.41984	40.131	.09536
#1	.00133	.00137	3.1073	2.4978	.00290	79.413	.00848	.00079	61.121
#2	.00178	.00108	3.1135	2.5433	.00328	78.661	.00843	.00044	61.039
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00289**	**.00247**	**1.610**	**-.00216**	**.00968**	**6.5329**	**.00016**	**2.0005**	**.00075**
Stddev	.00028	.00020	.034	.00480	.00978	.0184	.00052	.0012	.00019
%RSD	9.6825	8.2601	2.134	221.95	101.01	.28086	333.32	.06176	25.928
#1	.00308	.00262	1.634	-.00556	.01660	6.5199	.00053	1.9996	.00089
#2	.00269	.00233	1.586	.00123	.00277	6.5458	-.00021	2.0014	.00061
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00121**	**-.00019**	**.00256**
Stddev	.00452	.00029	.00054
%RSD	374.90	150.51	21.150
#1	.00199	-.00040	.00294
#2	-.00441	.00001	.00218
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1420.3**	**1046.6**	**31452.**	**10518.**
Stddev	.4	2.6	258.	28.
%RSD	.02568	.24435	.82177	.26493
#1	1420.1	1044.8	31269.	10538.
#2	1420.6	1048.4	31635.	10499.
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-70035-f-2-b Acquired: 10/29/2014 22:18:25 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00024**	**.00969**	**.00882**	**.42072**	**.24243**	**.00002**	**126.46**	**.00015**	**.00054**
Stddev	.00077	.00180	.00594	.00124	.00145	.00002	.29	.00006	.00004
%RSD	316.18	18.561	67.422	.29529	.60002	119.55	.23190	38.722	6.5594
#1	.00079	.01096	.00461	.42159	.24140	.00003	126.25	.00020	.00051
#2	-.00030	.00842	.01302	.41984	.24346	.00000	126.66	.00011	.00056
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00185**	**.00172**	**6.6777**	**4.7594**	**.00500**	**90.549**	**.01567**	**.00100**	**128.40**
Stddev	.00064	.00032	.0015	.0182	.00016	.562	.00012	.00004	.56
%RSD	34.748	18.914	.02310	.38223	3.2270	.62062	.73649	3.7673	.43567
#1	.00139	.00149	6.6766	4.7465	.00511	90.152	.01575	.00103	128.80
#2	.00230	.00194	6.6787	4.7723	.00488	90.947	.01559	.00097	128.00
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00752**	**.00157**	**.8989**	**-.00204**	**-.00231**	**8.1404**	**.00019**	**1.8870**	**.00127**
Stddev	.00011	.00046	.0312	.00299	.00359	.0141	.00001	.0002	.00017
%RSD	1.4086	28.956	3.467	146.65	155.33	.17338	4.5012	.00988	13.717
#1	.00759	.00189	.8769	.00008	-.00485	8.1504	.00019	1.8869	.00139
#2	.00744	.00125	.9210	-.00416	.00023	8.1304	.00020	1.8872	.00115
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00257**	**.00033**	**.00257**
Stddev	.00642	.00007	.00124
%RSD	249.85	20.893	48.274
#1	.00197	.00037	.00169
#2	-.00711	.00028	.00344
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1372.2**	**1029.3**	**30936.**	**10397.**
Stddev	1.8	3.2	128.	5.
%RSD	.13396	.30946	.41410	.04495
#1	1370.9	1027.0	31027.	10400.
#2	1373.5	1031.5	30845.	10393.
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-70035-f-3-b Acquired: 10/29/2014 22:21:18 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00038**	**.02989**	**.00497**	**.58320**	**.42560**	**.00001**	**142.54**	**-.00003**	**.00113**
Stddev	.00072	.00333	.00359	.00052	.00510	.00005	.24	.00001	.00005
%RSD	190.34	11.130	72.317	.08998	1.1974	497.44	.17036	39.834	4.8278
#1	-.00013	.03225	.00243	.58357	.42199	.00004	142.71	-.00002	.00116
#2	.00089	.02754	.00751	.58283	.42920	-.00002	142.37	-.00004	.00109
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00232**	**.00176**	**7.4671**	**8.0679**	**.00816**	**101.32**	**.03083**	**-.00010**	**167.26**
Stddev	.00068	.00036	.0239	.0248	.00053	.72	.00030	.00028	.37
%RSD	29.349	20.274	.31958	.30682	6.5289	.71191	.96463	275.23	.22081
#1	.00183	.00151	7.4502	8.0854	.00779	100.81	.03062	-.00030	167.00
#2	.00280	.00201	7.4839	8.0504	.00854	101.83	.03104	.00010	167.52
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00910**	**.00401**	**1.163**	**-.00400**	**-.00019**	**9.8093**	**-.00043**	**1.7045**	**.00079**
Stddev	.00048	.00016	.012	.00021	.00591	.0392	.00035	.0033	.00010
%RSD	5.2329	4.0702	1.006	5.3158	3123.4	.39990	82.331	.19446	13.059
#1	.00877	.00389	1.155	-.00385	-.00437	9.8370	-.00067	1.7022	.00087
#2	.00944	.00412	1.171	-.00415	.00399	9.7815	-.00018	1.7069	.00072
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00590**	**-.00006**	**.00178**
Stddev	.00306	.00015	.00025
%RSD	51.753	273.21	14.306
#1	-.00806	-.00017	.00196
#2	-.00374	.00005	.00160
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1339.8**	**1010.9**	**30487.**	**10448.**
Stddev	.7	1.4	307.	7.
%RSD	.05221	.13436	1.0068	.06606
#1	1340.3	1011.8	30704.	10443.
#2	1339.3	1009.9	30270.	10453.
Check ?	None	None	None	None
Value				
Range				

Sample Name: CCV-2388838 Acquired: 10/29/2014 22:24:18 Type: QC
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.53486**	**25.843**	**.51046**	**.50247**	**.51748**	**.50346**	**24.650**	**.50645**	**.50277**	**.51072**	**.50052**	**25.442**	**25.249**	**.50766**
Stddev	.00019	.039	.00298	.00243	.00071	.00125	.092	.00120	.00112	.00154	.00482	.057	.056	.00265
%RSD	.03615	.15252	.58285	.48266	.13634	.24891	.37498	.23700	.22362	.30123	.96217	.22588	.22010	.52217
#1	.53472	25.815	.50835	.50076	.51698	.50435	24.715	.50730	.50357	.50963	.49712	25.483	25.210	.50579
#2	.53500	25.870	.51256	.50418	.51798	.50258	24.584	.50560	.50198	.51181	.50393	25.402	25.289	.50954
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value														
Range														

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**26.170**	**.52685**	**.51730**	**25.123**	**.51878**	**.51008**	**25.67**	**.51347**	**.50306**	**25.355**	**.51105**	**.51025**	**.52144**	**.51323**
Stddev	.071	.00023	.00109	.017	.00155	.00342	.02	.00089	.00278	.074	.00435	.00043	.00160	.00696
%RSD	.27144	.04306	.21011	.06832	.29966	.67119	.0688	.17377	.55339	.29368	.85146	.08517	.30632	1.3555
#1	26.120	.52701	.51807	25.111	.51988	.51250	25.68	.51284	.50503	25.407	.51413	.50994	.52031	.51815
#2	26.220	.52669	.51654	25.135	.51768	.50765	25.66	.51410	.50109	25.302	.50797	.51056	.52257	.50831
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value														
Range														

Elem	V_2924	Zn2062
Units	ppm	ppm
Avg	**.50545**	**.52984**
Stddev	.00150	.00006
%RSD	.29699	.01112
#1	.50439	.52980
#2	.50651	.52988
Check ?	Chk Pass	Chk Pass
Value		
Range		

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1493.3**	**1104.4**	**32890.**	**10623.**
Stddev	1.8	3.6	46.	39.
%RSD	.12282	.32836	.14057	.36285
#1	1494.6	1107.0	32923.	10596.
#2	1492.0	1101.9	32858.	10650.

Sample Name: CCB-2388837 Acquired: 10/29/2014 22:27:03 Type: QC
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00027**	**.01037**	**.00277**	**.00148**	**-.00000**	**.00017**	**.04063**	**-.00016**	**.00001**	**-.00022**	**.00005**	**.00766**
Stddev	.00050	.01633	.00277	.00022	.00001	.00019	.04974	.00007	.00007	.00017	.00001	.01049
%RSD	183.31	157.52	99.746	14.717	4487.9	114.49	122.44	43.550	1375.8	77.318	26.369	136.97
#1	-.00008	-.00118	.00082	.00164	-.00001	.00003	.00545	-.00011	-.00005	-.00034	.00006	.00024
#2	.00062	.02192	.00473	.00133	.00001	.00030	.07580	-.00021	.00006	-.00010	.00004	.01508
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit												
Low Limit												

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00687**	**.00041**	**-.00183**	**-.00027**	**-.00023**	**.05311**	**-.00085**	**.00179**	**-.0038**	**-.00032**	**.00330**	**.01381**
Stddev	.01581	.00019	.00329	.00004	.00007	.05125	.00027	.00218	.0003	.00042	.00134	.00850
%RSD	230.14	46.577	180.20	15.205	28.886	96.496	31.126	121.92	6.960	128.90	40.643	61.582
#1	-.00431	.00027	-.00416	-.00030	-.00028	.01687	-.00067	.00025	-.0040	-.00062	.00235	.00780
#2	.01805	.00054	.00050	-.00024	-.00018	.08935	-.00104	.00333	-.0036	-.00003	.00425	.01982
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit												
Low Limit												

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00091**	**.00058**	**.00045**	**-.00064**	**-.00012**	**.00116**
Stddev	.00022	.00077	.00003	.00001	.00001	.00023
%RSD	24.391	133.68	7.1499	1.0921	4.5314	19.705
#1	-.00075	.00003	.00047	-.00065	-.00012	.00100
#2	-.00107	.00112	.00042	-.00064	-.00013	.00132
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1696.7**	**1149.7**	**34620.**	**10784.**
Stddev	3.3	.9	327.	23.
%RSD	.19390	.07841	.94444	.21572
#1	1694.3	1149.0	34851.	10800.
#2	1699.0	1150.3	34389.	10767.

Sample Name: CCVL-2388843 Acquired: 10/29/2014 22:29:57 Type: QC
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00637**	**.21329**	**.01419**	**.02149**	**.00208**	**.00207**	**.47621**	**.00190**	**.00378**	**.00445**	**.00859**	**.05122**
Stddev	.00037	.00163	.00322	.00025	.00006	.00002	.00072	.00001	.00011	.00017	.00010	.00084
%RSD	5.7421	.76231	22.727	1.1730	2.7630	1.0017	.15108	.47647	2.8111	3.8723	1.2108	1.6489
#1	.00611	.21214	.01647	.02167	.00212	.00208	.47672	.00189	.00370	.00458	.00867	.05182
#2	.00663	.21444	.01191	.02131	.00204	.00205	.47570	.00191	.00385	.00433	.00852	.05062
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value												
Range												

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.47733**	**.02917**	**.19987**	**.00280**	**.00984**	**.96622**	**.00932**	**.01089**	**.2034**	**.01988**	**.02744**	**.49538**
Stddev	.01122	.00032	.00111	.00008	.00009	.00298	.00048	.00124	.0257	.00347	.00199	.00768
%RSD	2.3509	1.1095	.55606	2.8388	.90107	.30790	5.1351	11.432	12.64	17.443	7.2489	1.5494
#1	.46939	.02940	.19909	.00286	.00978	.96833	.00898	.01177	.1852	.02233	.02604	.50081
#2	.48526	.02894	.20066	.00275	.00991	.96412	.00966	.01001	.2216	.01743	.02885	.48996
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value												
Range												

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00966**	**.00492**	**.00540**	**.01742**	**.00511**	**.01065**
Stddev	.00005	.00002	.00030	.00696	.00010	.00017
%RSD	.48131	.41800	5.5258	39.946	1.9384	1.6249
#1	.00969	.00490	.00519	.02235	.00518	.01078
#2	.00963	.00493	.00561	.01250	.00504	.01053
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1688.4**	**1152.6**	**34941.**	**10847.**
Stddev	2.7	2.7	135.	5.
%RSD	.16231	.23215	.38727	.04640
#1	1690.4	1154.5	34845.	10843.
#2	1686.5	1150.7	35037.	10850.

Sample Name: 480-70035-f-4-b Acquired: 10/29/2014 22:32:49 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00033**	**.02846**	**.01252**	**.45417**	**.43604**	**.00005**	**195.43**	**.00027**	**.00077**
Stddev	.00008	.01118	.00020	.00001	.00524	.00000	.36	.00004	.00026
%RSD	24.798	39.297	1.6300	.00170	1.2015	.51246	.18237	15.056	34.209
#1	-.00039	.02055	.01266	.45416	.43974	.00005	195.18	.00024	.00058
#2	-.00027	.03636	.01237	.45417	.43234	.00005	195.68	.00030	.00096
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00302**	**.00200**	**4.6363**	**5.3664**	**.00701**	**167.23**	**.02140**	**.00046**	**225.50**
Stddev	.00040	.00028	.0293	.0360	.00011	.19	.00004	.00086	.27
%RSD	13.102	13.898	.63097	.67034	1.6250	.11611	.20805	186.51	.11871
#1	.00330	.00219	4.6157	5.3918	.00693	167.37	.02143	-.00015	225.69
#2	.00274	.00180	4.6570	5.3410	.00709	167.09	.02137	.00107	225.31
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02760**	**.00384**	**2.448**	**-.00133**	**.00594**	**7.0490**	**.00150**	**5.4662**	**.00110**
Stddev	.00014	.00092	.007	.00399	.00537	.0194	.00023	.1074	.00023
%RSD	.51139	24.074	.3063	301.08	90.419	.27494	15.667	1.9647	21.204
#1	.02751	.00450	2.443	-.00415	.00974	7.0627	.00133	5.3903	.00093
#2	.02770	.00319	2.453	.00150	.00214	7.0353	.00166	5.5421	.00126
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00613**	**.00120**	**.00548**
Stddev	.00450	.00069	.00080
%RSD	73.383	57.479	14.571
#1	-.00295	.00071	.00605
#2	-.00931	.00168	.00492
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1293.8**	**986.01**	**29899.**	**10259.**
Stddev	2.0	.61	85.	73.
%RSD	.15280	.06140	.28395	.70755
#1	1295.2	986.44	29839.	10311.
#2	1292.4	985.58	29959.	10208.
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-70035-f-5-b Acquired: 10/29/2014 22:35:57 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00022**	**.01560**	**.00170**	**.20713**	**.12950**	**.00004**	**86.444**	**.00014**	**-.00027**
Stddev	.00032	.00252	.00322	.00040	.00024	.00002	.455	.00028	.00034
%RSD	146.26	16.181	189.39	.19128	.18756	50.880	.52592	198.59	123.39
#1	-.00045	.01381	.00397	.20685	.12967	.00003	86.122	-.00006	-.00003
#2	.00001	.01738	-.00058	.20741	.12933	.00006	86.765	.00034	-.00051
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00045**	**.00130**	**.15973**	**2.4952**	**.00727**	**60.114**	**.05309**	**.00064**	**35.335**
Stddev	.00044	.00000	.00209	.0113	.00038	.112	.00052	.00021	.053
%RSD	98.992	.18895	1.3055	.45305	5.1599	.18708	.97693	32.960	.14887
#1	.00013	.00131	.15826	2.5032	.00700	60.193	.05346	.00049	35.372
#2	.00076	.00130	.16120	2.4872	.00753	60.034	.05273	.00079	35.297
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00135**	**.00173**	**36.26**	**-.00291**	**.00253**	**9.1104**	**.00039**	**1.8743**	**.00084**
Stddev	.00027	.00322	.02	.00027	.00154	.0312	.00006	.0041	.00031
%RSD	20.069	185.72	.0620	9.1081	60.955	.34295	15.220	.21890	36.581
#1	.00116	-.00054	36.24	-.00310	.00144	9.0883	.00035	1.8772	.00106
#2	.00154	.00401	36.27	-.00272	.00362	9.1325	.00044	1.8714	.00062
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.00174**	**-.00002**	**.00158**
Stddev	.00167	.00026	.00052
%RSD	95.747	1694.8	33.211
#1	.00056	.00017	.00121
#2	.00292	-.00020	.00195
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1452.5**	**1049.0**	**31770.**	**10605.**
Stddev	1.1	2.1	43.	8.
%RSD	.07239	.20118	.13611	.07676
#1	1453.2	1050.4	31801.	10599.
#2	1451.7	1047.5	31740.	10611.
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-70035-f-6-b Acquired: 10/29/2014 22:38:44 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	**.02617**	**.00245**	**.07974**	**.11067**	**.00003**	**111.60**	**-.00005**	**.00104**
Stddev	.00037	.00227	.00228	.00093	.00099	.00003	.46	.00019	.00031
%RSD	1642.9	8.6559	93.216	1.1720	.89484	103.27	.40880	360.16	29.829
#1	-.00024	.02457	.00084	.08040	.10997	.00001	111.28	-.00019	.00126
#2	.00028	.02778	.00406	.07908	.11137	.00006	111.92	.00008	.00082
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00184**	**.00142**	**1.9946**	**5.8925**	**.00889**	**56.243**	**.22322**	**.00246**	**40.729**
Stddev	.00047	.00024	.0000	.0517	.00038	.548	.00148	.00026	.136
%RSD	25.743	17.272	.00015	.87692	4.3215	.97505	.66429	10.665	.33458
#1	.00150	.00124	1.9946	5.9290	.00916	55.856	.22217	.00265	40.825
#2	.00217	.00159	1.9946	5.8560	.00862	56.631	.22427	.00227	40.632
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00781**	**.00333**	**28.22**	**-.00087**	**-.00038**	**7.0177**	**-.00042**	**1.2794**	**.00082**
Stddev	.00105	.00129	.06	.00079	.00477	.0338	.00012	.0036	.00059
%RSD	13.395	38.772	.1986	90.072	1250.6	.48150	28.759	.28152	71.956
#1	.00707	.00425	28.18	-.00143	.00299	7.0416	-.00050	1.2820	.00123
#2	.00855	.00242	28.26	-.00032	-.00375	6.9938	-.00033	1.2769	.00040
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00323**	**-.00000**	**.00163**
Stddev	.00399	.00022	.00059
%RSD	123.75	14575.	36.333
#1	-.00040	-.00016	.00121
#2	-.00605	.00015	.00205
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1429.5**	**1041.4**	**31800.**	**10575.**
Stddev	.1	1.5	287.	10.
%RSD	.00762	.14721	.90196	.09247
#1	1429.6	1042.5	32003.	10582.
#2	1429.4	1040.3	31597.	10568.
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-70035-f-7-b Acquired: 10/29/2014 22:41:31 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00013**	**.00720**	**.00335**	**.06970**	**.07106**	**.00005**	**132.50**	**-.00005**	**-.00034**
Stddev	.00019	.00389	.00294	.00024	.00003	.00002	.64	.00004	.00001
%RSD	146.88	54.069	87.767	.34799	.04050	46.996	.48277	86.678	2.9885
#1	-.00001	.00445	.00543	.06987	.07108	.00003	132.95	-.00007	-.00035
#2	.00027	.00996	.00127	.06952	.07104	.00007	132.05	-.00002	-.00034
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00095**	**.00091**	**1.5273**	**4.3442**	**.00851**	**63.153**	**.09632**	**.00087**	**14.775**
Stddev	.00023	.00003	.0062	.0071	.00005	.143	.00043	.00049	.005
%RSD	24.336	3.7751	.40273	.16445	.58744	.22618	.45118	56.511	.03532
#1	.00111	.00089	1.5316	4.3492	.00855	63.052	.09601	.00122	14.778
#2	.00079	.00094	1.5229	4.3391	.00847	63.254	.09662	.00052	14.771
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00059**	**.00297**	**52.75**	**-.00230**	**.00152**	**8.5784**	**-.00079**	**.51012**	**.00102**
Stddev	.00033	.00128	.24	.00085	.00344	.0110	.00008	.00007	.00010
%RSD	55.329	43.051	.4459	36.819	226.16	.12857	10.117	.01353	10.103
#1	.00036	.00206	52.92	-.00289	.00395	8.5862	-.00085	.51016	.00095
#2	.00082	.00387	52.59	-.00170	-.00091	8.5706	-.00073	.51007	.00109
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00685**	**.00002**	**-.00015**
Stddev	.00302	.00038	.00125
%RSD	44.065	1760.1	818.67
#1	-.00899	-.00025	-.00104
#2	-.00472	.00029	.00073
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1434.0**	**1037.1**	**31587.**	**10526.**
Stddev	.9	2.3	18.	11.
%RSD	.06121	.22110	.05615	.10478
#1	1433.4	1035.5	31599.	10518.
#2	1434.6	1038.7	31574.	10534.
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-70035-f-8-b Acquired: 10/29/2014 22:44:18 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00062**	**.02357**	**.00050**	**.16721**	**.22864**	**.00003**	**78.380**	**-.00005**	**-.00017**
Stddev	.00057	.00405	.00234	.00126	.00055	.00001	.181	.00003	.00027
%RSD	91.450	17.179	466.72	.75545	.23899	35.705	.23080	63.216	155.71
#1	-.00022	.02070	-.00115	.16810	.22825	.00004	78.252	-.00007	-.00036
#2	-.00102	.02643	.00216	.16632	.22903	.00002	78.508	-.00003	.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00135**	**.00083**	**.76731**	**3.0264**	**.00843**	**48.673**	**.01686**	**.00136**	**18.030**
Stddev	.00018	.00021	.00204	.0231	.00054	.113	.00014	.00000	.172
%RSD	13.595	25.574	.26557	.76287	6.3532	.23205	.81766	.08957	.95130
#1	.00148	.00068	.76875	3.0427	.00880	48.593	.01696	.00136	18.151
#2	.00122	.00098	.76587	3.0101	.00805	48.752	.01677	.00136	17.909
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00111**	**.00262**	**16.52**	**-.00174**	**.00553**	**7.0942**	**-.00047**	**1.3431**	**.00096**
Stddev	.00013	.00138	.08	.00106	.00246	.0310	.00050	.0111	.00013
%RSD	11.656	52.655	.4687	61.155	44.521	.43646	105.73	.82433	14.012
#1	.00120	.00359	16.58	-.00099	.00379	7.1161	-.00012	1.3509	.00086
#2	.00102	.00164	16.47	-.00249	.00727	7.0723	-.00083	1.3352	.00106
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00238**	**.00017**	**.00554**
Stddev	.00384	.00011	.00268
%RSD	161.68	62.959	48.438
#1	.00034	.00009	.00743
#2	-.00510	.00024	.00364
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1475.7**	**1060.6**	**32315.**	**10641.**
Stddev	1.8	1.3	22.	25.
%RSD	.12533	.12284	.06820	.23528
#1	1474.4	1059.7	32330.	10623.
#2	1477.0	1061.5	32299.	10659.
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-70052-d-1-b Acquired: 10/29/2014 22:47:05 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00044**	**.00362**	**.00085**	**.50413**	**.02281**	**.00004**	**22.459**	**-.00018**	**.00011**
Stddev	.00107	.00239	.00007	.00007	.00030	.00003	.290	.00003	.00010
%RSD	244.02	66.171	8.5123	.01427	1.2957	89.931	1.2917	15.008	87.848
#1	.00120	.00192	.00090	.50418	.02260	.00001	22.254	-.00016	.00018
#2	-.00032	.00531	.00080	.50408	.02301	.00006	22.664	-.00020	.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00041**	**.00168**	**.00977**	**1.3403**	**.00802**	**20.001**	**.00391**	**.04288**	**54.383**
Stddev	.00027	.00027	.00069	.0142	.00004	.203	.00009	.00011	.081
%RSD	64.981	15.805	7.0642	1.0627	.53217	1.0163	2.1809	.25232	.14923
#1	.00022	.00149	.00929	1.3302	.00799	19.857	.00385	.04296	54.440
#2	.00061	.00187	.01026	1.3504	.00805	20.145	.00397	.04280	54.325
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00027**	**.00168**	**18.60**	**-.00044**	**.00160**	**6.9068**	**-.00009**	**.83442**	**.00085**
Stddev	.00027	.00012	.00	.00159	.00573	.0404	.00017	.00009	.00016
%RSD	99.650	7.3466	.0214	364.89	359.29	.58509	182.61	.01132	18.649
#1	-.00008	.00159	18.61	.00069	-.00246	6.8782	-.00021	.83436	.00074
#2	-.00046	.00176	18.60	-.00156	.00565	6.9354	.00003	.83449	.00097
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00717**	**-.00015**	**.00043**
Stddev	.00191	.00025	.00097
%RSD	26.636	172.61	227.43
#1	-.00852	-.00033	.00111
#2	-.00582	.00003	-.00026
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1512.9**	**1077.6**	**32579.**	**10734.**
Stddev	.1	.2	349.	28.
%RSD	.00942	.01909	1.0717	.26036
#1	1512.8	1077.4	32825.	10754.
#2	1513.0	1077.7	32332.	10714.
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-70053-b-1-b Acquired: 10/29/2014 22:49:52 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00037**	**.03262**	**.00883**	**.66642**	**.13968**	**.00002**	**490.16**	**.00035**	**.00517**
Stddev	.00018	.00449	.00966	.00275	.00085	.00002	1.24	.00002	.00003
%RSD	48.894	13.757	109.39	.41329	.60835	101.68	.25324	4.3667	.50359
#1	-.00049	.02944	.01566	.66448	.14028	.00001	489.28	.00034	.00515
#2	-.00024	.03579	.00200	.66837	.13908	.00003	491.04	.00037	.00518
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00366**	**.00415**	**1.5916**	**113.34**	**.01194**	**201.51**	**.68588**	**.01806**	**284.56**
Stddev	.00010	.00008	.0046	.45	.00051	1.56	.00660	.00027	.20
%RSD	2.6201	1.9894	.29047	.39997	4.2700	.77400	.96203	1.4773	.06936
#1	.00360	.00409	1.5883	113.66	.01158	202.62	.69055	.01787	284.70
#2	.00373	.00421	1.5949	113.02	.01230	200.41	.68122	.01825	284.42
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02182**	**.00560**	**273.0**	**-.00253**	**.00432**	**6.5165**	**.00015**	**1.0805**	**.00320**
Stddev	.00040	.00156	1.7	.00196	.00053	.0158	.00000	.0069	.00011
%RSD	1.8481	27.840	.6228	77.614	12.366	.24164	1.3255	.63372	3.3987
#1	.02211	.00449	271.8	-.00391	.00394	6.5053	.00015	1.0853	.00313
#2	.02154	.00670	274.2	-.00114	.00470	6.5276	.00015	1.0756	.00328
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00079**	**.00083**	**.00828**
Stddev	.00101	.00019	.00057
%RSD	127.19	22.525	6.9432
#1	-.00008	.00096	.00868
#2	-.00151	.00069	.00787
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1200.8**	**934.85**	**28190.**	**10059.**
Stddev	6.1	4.47	164.	1.
%RSD	.51205	.47846	.58334	.01264
#1	1205.1	938.01	28074.	10060.
#2	1196.4	931.69	28307.	10058.
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-70053-b-2-b Acquired: 10/29/2014 22:52:49 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00007**	**.00268**	**.00123**	**.19164**	**.15836**	**.00003**	**118.11**	**.00003**	**.00005**
Stddev	.00007	.01002	.00082	.00089	.00076	.00002	.41	.00008	.00009
%RSD	103.19	373.84	66.394	.46198	.47795	73.134	.34976	258.36	169.94
#1	.00002	.00976	.00181	.19102	.15889	.00005	117.82	.00009	.00011
#2	.00012	-.00440	.00065	.19227	.15782	.00002	118.41	-.00002	-.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00160**	**.00173**	**3.3368**	**2.2807**	**.00696**	**53.178**	**.09079**	**.00176**	**147.93**
Stddev	.00051	.00009	.0088	.0411	.00010	.218	.00044	.00016	.55
%RSD	32.041	5.3700	.26220	1.8039	1.4912	.40913	.48932	9.2118	.37464
#1	.00197	.00180	3.3430	2.3098	.00688	53.332	.09110	.00187	148.32
#2	.00124	.00167	3.3307	2.2516	.00703	53.024	.09048	.00164	147.54
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01071**	**.00324**	**23.58**	**-.00123**	**-.00204**	**6.7741**	**-.00040**	**.25860**	**.00135**
Stddev	.00160	.00325	.01	.00289	.00491	.0135	.00021	.00151	.00033
%RSD	14.981	100.19	.0324	234.14	240.69	.19855	53.223	.58208	24.386
#1	.00958	.00554	23.58	-.00328	.00143	6.7646	-.00025	.25966	.00112
#2	.01184	.00094	23.57	.00081	-.00552	6.7836	-.00055	.25753	.00158
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.00006**	**.00008**	**.00128**
Stddev	.00222	.00020	.00161
%RSD	3692.3	239.88	125.47
#1	.00163	.00022	.00014
#2	-.00151	-.00006	.00242
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1374.8**	**1025.4**	**31308.**	**10523.**
Stddev	2.0	2.6	79.	3.
%RSD	.14328	.25696	.25253	.02511
#1	1376.2	1027.3	31252.	10521.
#2	1373.4	1023.5	31364.	10525.
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-70075-f-1-b Acquired: 10/29/2014 22:55:40 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00034**	**.01506**	**.00135**	**.37113**	**.07437**	**-.00001**	**81.117**	**.00006**	**.00024**
Stddev	.00044	.01360	.00093	.00099	.00091	.00001	.079	.00001	.00021
%RSD	128.58	90.283	68.973	.26803	1.2292	164.10	.09710	11.455	85.254
#1	.00065	.00545	.00201	.37183	.07372	-.00002	81.061	.00007	.00010
#2	.00003	.02468	.00069	.37043	.07501	.00000	81.173	.00006	.00039
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00107**	**.00150**	**.26377**	**2.6320**	**.04365**	**36.064**	**.34142**	**.00198**	**84.017**
Stddev	.00060	.00005	.00303	.0155	.00059	.252	.00244	.00051	.186
%RSD	55.421	3.2926	1.1471	.58742	1.3471	.69977	.71599	25.655	.22116
#1	.00150	.00153	.26163	2.6429	.04323	35.885	.33969	.00234	83.886
#2	.00065	.00146	.26591	2.6211	.04406	36.242	.34315	.00162	84.149
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00267**	**-.00043**	**25.96**	**-.00183**	**.00712**	**10.907**	**-.00097**	**.58514**	**.00088**
Stddev	.00053	.00074	.02	.00101	.00708	.022	.00042	.00179	.00027
%RSD	19.968	173.14	.0733	55.048	99.382	.19795	43.623	.30571	30.522
#1	.00305	.00010	25.94	-.00112	.01213	10.892	-.00067	.58388	.00069
#2	.00230	-.00095	25.97	-.00254	.00212	10.922	-.00127	.58640	.00108
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.00322**	**.00004**	**.00542**
Stddev	.00275	.00024	.00160
%RSD	85.207	663.67	29.571
#1	.00128	-.00014	.00656
#2	.00516	.00021	.00429
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1441.1**	**1055.9**	**31730.**	**10479.**
Stddev	.2	2.5	217.	18.
%RSD	.01336	.23217	.68372	.16953
#1	1441.2	1054.1	31883.	10491.
#2	1441.0	1057.6	31577.	10466.
Check ?	None	None	None	None
Value				
Range				

Sample Name: CCV-2388838 Acquired: 10/29/2014 22:58:28 Type: QC
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.53028**	**25.866**	**.50248**	**.49848**	**.51958**	**.50466**	**24.560**	**.50266**	**.49969**	**.50599**	**.49758**	**25.474**	**25.215**	**.50833**
Stddev	.00109	.353	.00670	.00162	.00676	.00739	.513	.00021	.00175	.00031	.00011	.425	.321	.00665
%RSD	.20649	1.3642	1.3331	.32468	1.3020	1.4646	2.0891	.04197	.35118	.06063	.02187	1.6688	1.2730	1.3091
#1	.52950	26.115	.50722	.49963	.52436	.50988	24.922	.50251	.49845	.50578	.49765	25.775	25.442	.51304
#2	.53105	25.616	.49774	.49734	.51479	.49943	24.197	.50281	.50093	.50621	.49750	25.174	24.988	.50363
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value														
Range														

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**26.048**	**.52340**	**.51185**	**25.128**	**.51412**	**.50743**	**25.50**	**.51058**	**.50065**	**25.256**	**.50911**	**.50840**	**.51809**	**.50086**
Stddev	.015	.00116	.00110	.287	.00314	.00097	.03	.00129	.00076	.388	.00063	.00607	.00040	.00414
%RSD	.05904	.22237	.21430	1.1432	.61122	.19193	.1326	.25280	.15157	1.5366	.12416	1.1941	.07708	.82571
#1	26.038	.52423	.51263	25.331	.51189	.50812	25.53	.51150	.50119	25.530	.50955	.51269	.51837	.50378
#2	26.059	.52258	.51108	24.925	.51634	.50675	25.48	.50967	.50011	24.981	.50866	.50411	.51781	.49793
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value														
Range														

Elem	V_2924	Zn2062
Units	ppm	ppm
Avg	**.50205**	**.51957**
Stddev	.00028	.00020
%RSD	.05538	.03943
#1	.50186	.51972
#2	.50225	.51943
Check ?	Chk Pass	Chk Pass
Value		
Range		

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1501.1**	**1110.6**	**32949.**	**10623.**
Stddev	2.0	4.1	7.	180.
%RSD	.13114	.36486	.02214	1.6940
#1	1499.7	1107.8	32944.	10496.
#2	1502.5	1113.5	32954.	10751.

Sample Name: CCB-2388837 Acquired: 10/29/2014 23:01:12 Type: QC
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00008**	**-.00143**	**-.00156**	**.00139**	**-.00000**	**.00002**	**-.00129**	**-.00000**	**.00003**	**.00053**	**.00025**	**-.00057**
Stddev	.00109	.00220	.00172	.00045	.00002	.00004	.00133	.00013	.00015	.00086	.00022	.00018
%RSD	1336.7	153.36	110.61	32.161	751.42	195.51	103.10	5179.9	498.29	163.77	87.637	32.213
#1	.00085	.00012	-.00278	.00170	-.00002	.00005	-.00035	.00009	-.00008	-.00008	.00040	-.00044
#2	-.00069	-.00298	-.00034	.00107	.00001	-.00001	-.00223	-.00009	.00013	.00114	.00009	-.00071
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit												
Low Limit												

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00793**	**.00030**	**.00072**	**-.00029**	**.00014**	**.01240**	**.00002**	**.00062**	**.0201**	**-.00032**	**-.00128**	**.00109**
Stddev	.01604	.00033	.00814	.00001	.00009	.00243	.00023	.00210	.0279	.00153	.00209	.00850
%RSD	202.17	109.48	1132.6	2.9573	62.993	19.638	1474.6	338.72	138.4	472.05	163.48	781.73
#1	.01927	.00053	-.00503	-.00029	.00020	.01068	.00018	.00211	.0398	.00076	.00020	.00710
#2	-.00341	.00007	.00647	-.00030	.00008	.01412	-.00015	-.00087	.0004	-.00141	-.00276	-.00493
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit												
Low Limit												

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00070**	**.00001**	**.00074**	**-.00210**	**-.00001**	**.00005**
Stddev	.00051	.00002	.00007	.00309	.00014	.00000
%RSD	72.722	172.61	9.7341	147.43	975.02	1.1223
#1	-.00106	-.00000	.00069	-.00429	-.00011	.00005
#2	-.00034	.00003	.00079	.00009	.00008	.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1699.2**	**1153.7**	**35127.**	**10846.**
Stddev	2.7	3.3	70.	39.
%RSD	.15941	.28282	.19966	.36009
#1	1697.3	1151.4	35078.	10819.
#2	1701.1	1156.1	35177.	10874.

Sample Name: CCVL-2388843 Acquired: 10/29/2014 23:04:06 Type: QC
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00538**	**.20208**	**.01501**	**.02099**	**.00210**	**.00203**	**.50673**	**.00174**	**.00391**	**.00431**	**.00872**	**.05080**
Stddev	.00022	.00075	.00061	.00029	.00001	.00001	.00046	.00006	.00001	.00034	.00001	.00080
%RSD	4.1182	.37204	4.0596	1.3711	.37420	.54443	.09040	3.1696	.37312	7.8671	.06039	1.5740
#1	.00553	.20155	.01458	.02119	.00211	.00204	.50706	.00178	.00390	.00455	.00872	.05136
#2	.00522	.20261	.01544	.02078	.00210	.00203	.50641	.00170	.00392	.00407	.00872	.05023
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value												
Range												

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.48855**	**.02906**	**.21744**	**.00358**	**.01016**	**.98877**	**.01042**	**.01164**	**.1957**	**.01939**	**.02375**	**.50002**
Stddev	.01264	.00019	.00129	.00008	.00043	.00322	.00057	.00040	.0017	.00123	.00876	.00364
%RSD	2.5881	.66468	.59152	2.2859	4.1924	.32546	5.5175	3.4725	.8554	6.3245	36.883	.72722
#1	.47961	.02920	.21654	.00352	.01046	.99104	.01082	.01135	.1969	.02026	.01756	.50259
#2	.49749	.02893	.21835	.00364	.00986	.98649	.01001	.01193	.1945	.01852	.02995	.49745
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value												
Range												

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00945**	**.00505**	**.00565**	**.01999**	**.00490**	**.01088**
Stddev	.00001	.00004	.00002	.00317	.00012	.00061
%RSD	.08448	.81315	.40720	15.840	2.3575	5.6128
#1	.00946	.00502	.00567	.02223	.00498	.01044
#2	.00945	.00508	.00563	.01775	.00482	.01131
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1676.1**	**1148.0**	**34755.**	**10687.**
Stddev	.3	2.1	3.	41.
%RSD	.01747	.18341	.00921	.38525
#1	1675.9	1149.5	34752.	10716.
#2	1676.3	1146.5	34757.	10658.

Sample Name: 480-70075-f-2-b Acquired: 10/29/2014 23:06:58 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**5.2868**	**.01014**	**.33670**	**.01092**	**.00778**	**397.57**	**.00155**	**.42687**
Stddev	.00027	.0871	.00178	.00059	.00005	.00001	.52	.00005	.00073
%RSD	2527.0	1.6471	17.566	.17521	.47405	.15161	.13020	3.2960	.17000
#1	.00018	5.2252	.01140	.33712	.01088	.00779	397.21	.00151	.42635
#2	-.00020	5.3484	.00888	.33628	.01096	.00778	397.94	.00158	.42738
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576-2	Mo2020	Na8183
Line	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}2	202.030 {467}	818.326 { 41}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01496**	**.00599**	**256.83**	**6.8736**	**.16680**	**330.42**	F **72.746**	**-.00377**	**78.848**
Stddev	.00111	.00008	1.03	.0714	.00203	.06	.137	.00044	.221
%RSD	7.4362	1.3659	.40197	1.0386	1.2166	.01784	.18824	11.696	.27976
#1	.01575	.00593	256.10	6.8231	.16537	330.38	72.649	-.00346	78.692
#2	.01417	.00605	257.56	6.9241	.16824	330.47	72.842	-.00408	79.004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit							44.000		
Low Limit							-.00300		

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.6427**	**.01678**	**993.8**	**.00274**	W **-.01633**	**16.080**	**.00261**	**1.2011**	**.00185**
Stddev	.0042	.00081	.6	.00132	.00957	.177	.00001	.0148	.00023
%RSD	.25702	4.8112	.0644	48.316	58.567	1.0991	.48348	1.2321	12.461
#1	1.6457	.01735	993.4	.00180	-.02310	15.955	.00260	1.1907	.00201
#2	1.6398	.01621	994.3	.00367	-.00957	16.205	.00262	1.2116	.00168
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					45.000				
Low Limit					-.01500				

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.03956**	**.00755**	**2.3636**
Stddev	.00229	.00007	.0036
%RSD	5.7838	.96664	.15102
#1	.03794	.00761	2.3661
#2	.04118	.00750	2.3611
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1225.0**	**1048.5**	**32117.**	**11047.**
Stddev	2.3	.2	130.	24.
%RSD	.18908	.01835	.40588	.21306
#1	1226.6	1048.6	32209.	11063.
#2	1223.3	1048.4	32024.	11030.
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-70075-f-3-b Acquired: 10/29/2014 23:09:58 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00052**	**6.7931**	**.00622**	**.09383**	**.01080**	**.00652**	**155.01**	**.01913**	**.09533**
Stddev	.00042	.2418	.00223	.00044	.00003	.00030	4.68	.00006	.00000
%RSD	79.750	3.5595	35.902	.47353	.25707	4.5612	3.0179	.30883	.00231
#1	-.00023	6.6222	.00780	.09415	.01082	.00631	151.70	.01917	.09533
#2	-.00082	6.9641	.00464	.09352	.01078	.00673	158.31	.01909	.09533
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00169**	**.00523**	**4.3694**	**.59405**	**.07360**	**19.611**	**3.4109**	**-.00010**	**3.5005**
Stddev	.00000	.00007	.1403	.01781	.00250	.065	.0089	.00000	.1076
%RSD	.24869	1.2497	3.2114	2.9980	3.4019	.33113	.26027	3.6985	3.0744
#1	.00170	.00519	4.2702	.58146	.07183	19.657	3.4171	-.00010	3.4244
#2	.00169	.00528	4.4687	.60664	.07537	19.565	3.4046	-.00010	3.5766
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.50898**	**.00765**	**186.7**	**-.00187**	**.01406**	**13.505**	**.00011**	**.14436**	**.00091**
Stddev	.00061	.00138	.0	.00004	.00060	.466	.00020	.00433	.00011
%RSD	.11915	18.050	.0094	2.3563	4.2649	3.4513	185.10	2.9960	11.501
#1	.50941	.00668	186.7	-.00184	.01363	13.175	.00025	.14130	.00084
#2	.50855	.00863	186.6	-.00191	.01448	13.834	-.00003	.14742	.00099
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.00644**	**-.00003**	**1.1116**
Stddev	.00391	.00003	.0026
%RSD	60.805	133.78	.23551
#1	.00367	-.00005	1.1135
#2	.00920	-.00000	1.1098
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1454.8**	**1161.5**	**35443.**	**11888.**
Stddev	2.7	.1	216.	265.
%RSD	.18263	.00673	.60854	2.2307
#1	1456.6	1161.5	35290.	12075.
#2	1452.9	1161.4	35595.	11700.
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-70075-f-4-b Acquired: 10/29/2014 23:12:50 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00116**	**4.9056**	**.00514**	**.15326**	**.00646**	**.00140**	**397.83**	**.00292**	**.37192**
Stddev	.00069	.0272	.00058	.00087	.00003	.00001	.96	.00008	.00058
%RSD	59.201	.55420	11.255	.57056	.39276	.82107	.24148	2.8517	.15674
#1	-.00068	4.9248	.00554	.15264	.00644	.00141	398.51	.00286	.37151
#2	-.00165	4.8863	.00473	.15388	.00648	.00139	397.15	.00298	.37233
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576-2	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}2	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00879**	**.00184**	**56.766**	**4.1186**	**.28841**	**204.39**	**36.476**	**-.00051**	**23.786**
Stddev	.00033	.00006	.046	.0075	.00014	1.75	.237	.00044	.071
%RSD	3.7615	3.0584	.08131	.18203	.05011	.85721	.65010	85.979	.29929
#1	.00856	.00180	56.733	4.1239	.28831	203.15	36.309	-.00020	23.836
#2	.00903	.00188	56.799	4.1133	.28851	205.62	36.644	-.00082	23.736
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.92152**	**.01078**	**692.7**	**-.00289**	**-.00096**	**13.984**	**.00089**	**.68063**	**.00145**
Stddev	.00260	.00083	2.7	.00010	.01020	.004	.00020	.00128	.00014
%RSD	.28249	7.7136	.3842	3.4857	1063.8	.02994	22.531	.18817	9.5257
#1	.91968	.01019	690.9	-.00297	-.00817	13.987	.00075	.68153	.00155
#2	.92336	.01136	694.6	-.00282	.00625	13.981	.00103	.67972	.00135
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.03794**	**.00208**	**1.6852**
Stddev	.00745	.00011	.0117
%RSD	19.649	5.0962	.69264
#1	.03267	.00200	1.6770
#2	.04321	.00215	1.6935
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1287.9**	**1035.8**	**31614.**	**10963.**
Stddev	2.7	3.6	189.	25.
%RSD	.20581	.34992	.59792	.22796
#1	1289.8	1038.3	31748.	10981.
#2	1286.1	1033.2	31480.	10945.
Check ?	None	None	None	None
Value				
Range				

Sample Name: BLANK Acquired: 10/29/2014 23:15:44 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00041**	**-.00092**	**.00145**	**.00057**	**-.00005**	**.00007**	**.07600**	**-.00008**	**-.00007**
Stddev	.00028	.00528	.00462	.00007	.00001	.00004	.02658	.00005	.00002
%RSD	67.075	572.70	318.98	12.784	12.735	62.844	34.975	59.560	31.321
#1	-.00061	-.00466	-.00182	.00052	-.00005	.00004	.05720	-.00005	-.00005
#2	-.00022	.00281	.00472	.00062	-.00004	.00010	.09479	-.00012	-.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00085**	**.00014**	**.01461**	**-.00986**	**.00092**	**.01628**	**.00346**	**-.00042**	**.01323**
Stddev	.00021	.00016	.00851	.01360	.00000	.01127	.00180	.00020	.00189
%RSD	24.682	114.59	58.269	137.84	.24057	69.201	51.989	46.495	14.249
#1	.00099	.00026	.00859	-.01948	.00092	.02425	.00473	-.00028	.01190
#2	.00070	.00003	.02063	-.00025	.00092	.00832	.00219	-.00056	.01457
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00033**	**.00089**	**.0862**	**.00061**	**.00190**	**.00597**	**-.00035**	**.00010**	**.00013**
Stddev	.00042	.00054	.0921	.00088	.00095	.00360	.00088	.00008	.00018
%RSD	125.39	61.115	106.7	144.90	50.195	60.326	253.07	78.696	131.69
#1	.00063	.00050	.1513	-.00001	.00257	.00852	-.00097	.00005	.00026
#2	.00004	.00127	.0211	.00123	.00122	.00343	.00027	.00016	.00001
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00290**	**.00008**	**.00088**
Stddev	.00179	.00011	.00021
%RSD	61.534	139.39	23.793
#1	-.00416	.00000	.00103
#2	-.00164	.00015	.00073
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1677.9**	**1132.8**	**34455.**	**10728.**
Stddev	2.6	1.9	46.	52.
%RSD	.15714	.17211	.13258	.48801
#1	1676.0	1131.5	34423.	10691.
#2	1679.8	1134.2	34487.	10765.
Check ?	None	None	None	None
Value				
Range				

Sample Name: mb 480-210268/1-a Acquired: 10/29/2014 23:18:37 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00020**	**.01291**	**.00076**	**.00219**	**.00008**	**.00005**	**.03085**	**-.00031**	**.00006**
Stddev	.00010	.00248	.00067	.00020	.00001	.00003	.00148	.00005	.00003
%RSD	50.501	19.172	88.375	9.2884	8.6875	57.857	4.7983	16.530	48.181
#1	.00013	.01466	.00124	.00204	.00009	.00003	.03190	-.00027	.00009
#2	.00028	.01116	.00029	.00233	.00008	.00007	.02981	-.00035	.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00039**	**.00034**	**.00651**	**-.00978**	**.00030**	**.00030**	**.00084**	**-.00024**	**.00887**
Stddev	.00019	.00031	.00184	.00745	.00020	.00132	.00011	.00016	.00302
%RSD	49.788	91.553	28.220	76.252	67.645	444.56	12.601	65.388	34.004
#1	.00025	.00056	.00781	-.01505	.00016	-.00064	.00091	-.00013	.00674
#2	.00053	.00012	.00521	-.00450	.00044	.00123	.00076	-.00035	.01100
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00007**	**.00139**	F **.0041**	**-.00017**	**.00284**	**.00092**	**-.00042**	**.00013**	**.00054**
Stddev	.00001	.00085	.0037	.00095	.00070	.00949	.00056	.00004	.00003
%RSD	12.056	61.333	88.50	573.33	24.786	1036.5	132.57	31.351	5.3158
#1	-.00006	.00200	.0067	-.00084	.00334	.00762	-.00003	.00010	.00056
#2	-.00008	.00079	.0015	.00051	.00234	-.00579	-.00081	.00016	.00052
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			.0030						
Low Limit			-.0030						

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00129**	**.00014**	**.00168**
Stddev	.00064	.00000	.00112
%RSD	49.811	.12618	66.545
#1	-.00174	.00014	.00089
#2	-.00083	.00014	.00247
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1701.9**	**1151.8**	**35358.**	**10983.**
Stddev	4.5	1.2	137.	31.
%RSD	.26687	.10289	.38685	.27909
#1	1698.7	1150.9	35455.	10962.
#2	1705.1	1152.6	35261.	11005.
Check ?	None	None	None	None
Value				
Range				

Sample Name: lcs 480-210268/2-a Acquired: 10/29/2014 23:21:29 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05170**	**10.023**	**.19984**	**.20512**	**.21047**	**.19783**	**9.6532**	**.19644**	**.19547**
Stddev	.00001	.140	.00066	.00076	.00115	.00139	.0692	.00059	.00055
%RSD	.01023	1.3953	.33216	.37245	.54404	.70392	.71709	.29834	.28062
#1	.05170	10.122	.20030	.20566	.21128	.19881	9.6042	.19685	.19585
#2	.05170	9.9245	.19937	.20458	.20966	.19684	9.7021	.19602	.19508
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.19729**	**.19799**	**9.9295**	**9.9525**	**.20029**	**10.230**	**.20787**	**.20549**	**9.9364**
Stddev	.00016	.00110	.0225	.0881	.00264	.028	.00075	.00103	.1189
%RSD	.08256	.55435	.22675	.88466	1.3164	.27427	.36128	.50151	1.1971
#1	.19717	.19876	9.9454	10.015	.20216	10.249	.20840	.20622	10.020
#2	.19740	.19721	9.9136	9.8902	.19843	10.210	.20734	.20476	9.8523
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.19870**	**.19533**	**10.13**	**.20663**	**.19505**	**10.000**	**.18975**	**.20085**	**.20029**
Stddev	.00167	.00236	.01	.00322	.00913	.105	.00103	.00198	.00064
%RSD	.84233	1.2091	.1319	1.5582	4.6825	1.0504	.54225	.98737	.32046
#1	.19752	.19700	10.14	.20435	.20151	10.075	.19048	.20225	.19983
#2	.19988	.19366	10.12	.20891	.18859	9.9262	.18902	.19945	.20074
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.20363**	**.20314**	**.20090**
Stddev	.00688	.00009	.00110
%RSD	3.3806	.04329	.54614
#1	.20850	.20308	.20168
#2	.19877	.20320	.20013
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1578.8**	**1120.6**	**33835.**	**10863.**
Stddev	2.3	5.2	108.	52.
%RSD	.14369	.46729	.31814	.47786
#1	1577.2	1116.9	33759.	10826.
#2	1580.4	1124.3	33911.	10900.
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-69673-e-1-b Acquired: 10/29/2014 23:24:12 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00053**	**.00909**	**.00108**	**.06339**	**.02878**	**.00005**	**121.22**	**.00010**	**-.00006**
Stddev	.00045	.00606	.00367	.00050	.00020	.00001	.12	.00022	.00003
%RSD	84.567	66.656	340.90	.78871	.69176	16.687	.09964	211.16	49.929
#1	.00022	.00481	.00368	.06374	.02864	.00005	121.31	-.00005	-.00008
#2	.00085	.01338	-.00152	.06303	.02892	.00004	121.14	.00026	-.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00053**	**.00128**	**.19255**	**3.6695**	**.03333**	**59.609**	**.00484**	**.00344**	**4.9160**
Stddev	.00059	.00017	.00382	.0091	.00002	.583	.00004	.00071	.0187
%RSD	111.90	13.712	1.9856	.24777	.05863	.97726	.83262	20.780	.38014
#1	.00011	.00115	.19526	3.6759	.03335	59.197	.00487	.00293	4.9292
#2	.00095	.00140	.18985	3.6631	.03332	60.021	.00481	.00394	4.9028
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00077**	**.00254**	**74.10**	**-.00214**	**-.00548**	**5.2267**	**-.00030**	**8.9590**	**.00103**
Stddev	.00091	.00304	.25	.00151	.00451	.0456	.00100	.0400	.00018
%RSD	119.32	119.81	.3410	70.446	82.408	.87272	333.11	.44669	17.809
#1	.00012	.00469	74.28	-.00108	-.00228	5.1945	-.00101	8.9873	.00090
#2	.00141	.00039	73.92	-.00321	-.00867	5.2590	.00041	8.9307	.00116
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00260**	**.00012**	**.00244**
Stddev	.00479	.00008	.00073
%RSD	184.46	73.253	30.039
#1	-.00598	.00018	.00192
#2	.00079	.00006	.00296
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1454.3**	**1052.2**	**32314.**	**10601.**
Stddev	1.7	4.8	213.	28.
%RSD	.11774	.46056	.65905	.26306
#1	1453.1	1048.7	32465.	10581.
#2	1455.5	1055.6	32163.	10621.
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-69673-e-1-bPDS Acquired: 10/29/2014 23:27:06 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05397**	**10.214**	**.21787**	**.27017**	**.23246**	**.20254**	**128.09**	**.20727**	**.20026**
Stddev	.00138	.050	.00129	.00151	.00748	.00028	.15	.00037	.00155
%RSD	2.5537	.49412	.58983	.56073	3.2194	.14065	.11664	.17729	.77393
#1	.05494	10.249	.21697	.26910	.23775	.20234	127.99	.20753	.19916
#2	.05299	10.178	.21878	.27124	.22717	.20274	128.20	.20701	.20136
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.19723**	**.20604**	**10.273**	**13.734**	**.23461**	**67.811**	**.21036**	**.21049**	**14.892**
Stddev	.00593	.00763	.022	.068	.00205	1.987	.00508	.00039	.063
%RSD	3.0060	3.7018	.21449	.49351	.87338	2.9306	2.4167	.18422	.42041
#1	.20143	.21143	10.257	13.782	.23606	69.216	.21395	.21077	14.936
#2	.19304	.20064	10.288	13.686	.23317	66.405	.20676	.21022	14.848
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.20182**	**.20608**	**81.47**	**.21068**	**.21961**	**15.130**	**.20025**	**8.9351**	**.20094**
Stddev	.00129	.00357	.09	.00107	.00041	.017	.00325	.0219	.00478
%RSD	.63842	1.7310	.1098	.50616	.18500	.11420	1.6236	.24506	2.3765
#1	.20273	.20356	81.41	.21143	.21989	15.142	.19795	8.9506	.20432
#2	.20091	.20860	81.54	.20992	.21932	15.117	.20255	8.9196	.19756
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.21009**	**.20532**	**.20556**
Stddev	.00672	.00624	.00196
%RSD	3.2006	3.0405	.95439
#1	.21484	.20973	.20694
#2	.20533	.20090	.20417
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1427.1**	**1053.9**	**32244.**	**10592.**
Stddev	7.1	3.2	749.	21.
%RSD	.49923	.30131	2.3218	.19733
#1	1432.1	1056.1	31714.	10607.
#2	1422.1	1051.6	32773.	10578.
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-69673-e-1-bSD@5 Acquired: 10/29/2014 23:29:53 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00020**	**.00017**	**-.00242**	**.01265**	**.00573**	**.00004**	**24.250**	**.00002**	**.00004**
Stddev	.00006	.00658	.00356	.00029	.00002	.00001	.072	.00009	.00025
%RSD	29.096	3884.2	147.14	2.2912	.37424	40.833	.29761	465.85	655.33
#1	.00016	-.00449	.00010	.01245	.00575	.00003	24.199	-.00004	.00022
#2	.00024	.00483	-.00493	.01286	.00572	.00005	24.301	.00008	-.00014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00052**	**.00046**	**.03940**	**.69478**	**.00709**	**11.521**	**.00091**	**.00024**	**.94772**
Stddev	.00021	.00031	.00079	.00165	.00004	.006	.00003	.00018	.00395
%RSD	41.349	67.867	2.0048	.23742	.53523	.05005	3.1341	77.824	.41641
#1	.00067	.00024	.03884	.69362	.00712	11.517	.00093	.00011	.94493
#2	.00037	.00068	.03996	.69595	.00706	11.525	.00089	.00037	.95051
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00065**	**-.00012**	**13.75**	**-.00134**	**-.00271**	**1.0328**	**-.00069**	**1.8433**	**.00057**
Stddev	.00001	.00268	.01	.00026	.00174	.0015	.00047	.0010	.00014
%RSD	1.4838	2161.0	.0406	18.997	64.346	.14849	67.175	.05256	24.494
#1	.00064	.00177	13.75	-.00152	-.00148	1.0339	-.00102	1.8440	.00067
#2	.00065	-.00202	13.75	-.00116	-.00394	1.0317	-.00036	1.8426	.00047
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.00036**	**.00020**	**.00018**
Stddev	.00133	.00004	.00026
%RSD	367.30	18.861	148.42
#1	.00130	.00022	.00037
#2	-.00058	.00017	-.00001
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1609.4**	**1118.7**	**34158.**	**10788.**
Stddev	1.8	1.0	106.	10.
%RSD	.11221	.09181	.30965	.09379
#1	1610.7	1119.4	34083.	10780.
#2	1608.1	1118.0	34233.	10795.
Check ?	None	None	None	None
Value				
Range				

Sample Name: CCV-2388838 Acquired: 10/29/2014 23:32:44 Type: QC
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.52829**	**25.703**	**.50758**	**.49888**	**.51250**	**.49929**	**24.548**	**.50412**	**.50217**	**.50642**	**.49884**	**25.268**	**25.076**	**.50367**
Stddev	.00437	.506	.00137	.00011	.00533	.00559	.326	.00134	.00182	.00681	.00766	.238	.348	.00792
%RSD	.82813	1.9680	.26910	.02243	1.0395	1.1191	1.3269	.26619	.36201	1.3455	1.5349	.94000	1.3887	1.5729
#1	.53139	26.061	.50662	.49880	.51627	.50325	24.778	.50507	.50346	.51124	.50426	25.436	25.322	.50927
#2	.52520	25.346	.50855	.49895	.50874	.49534	24.318	.50317	.50089	.50161	.49343	25.100	24.829	.49807
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value														
Range														

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**25.929**	**.52068**	**.51347**	**24.913**	**.51776**	**.50546**	**25.57**	**.50990**	**.50480**	**25.130**	**.51171**	**.50600**	**.51868**	**.50574**
Stddev	.309	.00592	.00009	.422	.00003	.00372	.04	.00256	.00310	.404	.00135	.00709	.00680	.00032
%RSD	1.1903	1.1375	.01775	1.6935	.00585	.73584	.1487	.50144	.61410	1.6091	.26447	1.4016	1.3119	.06321
#1	26.147	.52487	.51341	25.211	.51773	.50809	25.55	.50809	.50261	25.416	.51076	.51101	.52349	.50552
#2	25.710	.51649	.51354	24.615	.51778	.50283	25.60	.51171	.50699	24.845	.51267	.50098	.51387	.50597
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value														
Range														

Elem	V_2924	Zn2062
Units	ppm	ppm
Avg	**.50448**	**.52241**
Stddev	.00704	.00265
%RSD	1.3947	.50649
#1	.50945	.52428
#2	.49950	.52054
Check ?	Chk Pass	Chk Pass
Value		
Range		

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1501.4**	**1113.2**	**33266.**	**10703.**
Stddev	.1	1.2	355.	74.
%RSD	.00880	.10680	1.0660	.69164
#1	1501.5	1114.1	33015.	10650.
#2	1501.4	1112.4	33517.	10755.

Sample Name: CCB-2388837 Acquired: 10/29/2014 23:35:29 Type: QC
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00040**	**.00021**	**-.00061**	**.00084**	**-.00001**	**.00014**	**.01015**	**-.00027**	**-.00007**	**.00066**	**.00016**	**.00351**
Stddev	.00019	.00165	.00028	.00024	.00000	.00007	.01106	.00000	.00015	.00033	.00009	.00227
%RSD	48.014	797.82	45.344	27.953	38.034	48.142	109.02	1.7934	233.67	50.287	52.998	64.775
#1	.00054	.00138	-.00042	.00101	-.00001	.00009	.00233	-.00028	-.00017	.00043	.00010	.00190
#2	.00027	-.00096	-.00081	.00068	-.00001	.00019	.01797	-.00027	.00004	.00089	.00022	.00511
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit												
Low Limit												

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00105**	**.00020**	**-.00290**	**-.00026**	**-.00015**	**.00931**	**-.00003**	**.00092**	**-.0030**	**-.00047**	**-.00153**	**.00886**
Stddev	.00465	.00003	.00216	.00004	.00033	.00437	.00131	.00046	.0033	.00050	.00580	.00772
%RSD	442.52	15.590	74.490	15.380	216.90	46.964	3847.3	50.427	106.8	107.13	379.84	87.189
#1	-.00224	.00018	-.00443	-.00023	.00008	.00622	-.00096	.00124	-.0007	-.00082	.00257	.01432
#2	.00434	.00023	-.00137	-.00028	-.00039	.01241	.00089	.00059	-.0053	-.00011	-.00563	.00340
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit												
Low Limit												

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00110**	**.00057**	**.00049**	**-.00025**	**.00013**	**.00014**
Stddev	.00044	.00065	.00013	.00285	.00014	.00039
%RSD	39.913	114.41	26.126	1133.2	106.69	270.31
#1	-.00141	.00011	.00058	.00176	.00003	.00042
#2	-.00079	.00103	.00040	-.00227	.00023	-.00013
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1708.5**	**1158.1**	**34838.**	**10909.**
Stddev	1.1	1.3	617.	100.
%RSD	.06157	.11594	1.7713	.91915
#1	1707.7	1157.2	35274.	10838.
#2	1709.2	1159.1	34401.	10980.

Sample Name: CCVL-2388843 Acquired: 10/29/2014 23:38:23 Type: QC
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00661**	**.20538**	**.01248**	**.02053**	**.00209**	**.00205**	**.48914**	**.00189**	**.00403**	**.00417**	**.00851**	**.04824**
Stddev	.00008	.00654	.00309	.00004	.00000	.00000	.00024	.00000	.00002	.00034	.00019	.00197
%RSD	1.2704	3.1847	24.766	.21165	.01885	.21628	.04945	.18952	.40892	8.1691	2.1999	4.0903
#1	.00655	.21000	.01029	.02050	.00209	.00205	.48897	.00189	.00402	.00393	.00864	.04963
#2	.00667	.20075	.01466	.02056	.00209	.00205	.48931	.00189	.00404	.00441	.00838	.04684
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value												
Range												

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.49049**	**.02890**	**.20494**	**.00272**	**.01011**	**.97091**	**.00897**	**.01165**	**.1904**	**.02006**	**.01917**	**.49893**
Stddev	.00221	.00003	.00104	.00003	.00024	.00017	.00108	.00018	.0031	.00310	.00070	.00715
%RSD	.45029	.11746	.50964	1.1010	2.3501	.01782	12.078	1.5567	1.621	15.438	3.6349	1.4339
#1	.48893	.02887	.20420	.00270	.00994	.97079	.00820	.01152	.1882	.01787	.01868	.50398
#2	.49205	.02892	.20567	.00274	.01028	.97103	.00974	.01178	.1926	.02225	.01967	.49387
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value												
Range												

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00898**	**.00499**	**.00572**	**.01949**	**.00452**	**.01099**
Stddev	.00036	.00001	.00003	.00399	.00022	.00000
%RSD	4.0415	.13243	.51036	20.484	4.9153	.02666
#1	.00924	.00499	.00574	.02231	.00468	.01099
#2	.00872	.00500	.00570	.01666	.00437	.01099
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1688.5**	**1151.7**	**34872.**	**10824.**
Stddev	.6	.1	26.	14.
%RSD	.03723	.01146	.07565	.12967
#1	1689.0	1151.6	34853.	10834.
#2	1688.1	1151.8	34890.	10814.

Sample Name: 480-69673-e-1-c ms Acquired: 10/29/2014 23:41:15 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05347**	**10.359**	**.20668**	**.27318**	**.23770**	**.19835**	**130.95**	**.20494**	**.20099**
Stddev	.00005	.057	.00118	.00135	.00020	.00116	1.10	.00094	.00120
%RSD	.08907	.55433	.56995	.49364	.08461	.58547	.83993	.45875	.59619
#1	.05344	10.400	.20585	.27414	.23756	.19917	130.17	.20560	.20183
#2	.05350	10.319	.20752	.27223	.23784	.19753	131.73	.20427	.20014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.19752**	**.20559**	**9.9540**	**13.935**	**.23954**	**69.393**	**.20945**	**.21153**	**15.164**
Stddev	.00098	.00096	.0083	.106	.00265	.054	.00036	.00091	.117
%RSD	.49533	.46856	.08296	.76178	1.1074	.07766	.17346	.42995	.76938
#1	.19682	.20491	9.9599	14.010	.24142	69.354	.20919	.21217	15.246
#2	.19821	.20627	9.9482	13.860	.23767	69.431	.20971	.21089	15.081
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.20461**	**.20568**	**83.99**	**.21314**	**.20779**	**15.476**	**.19947**	F **9.1546**	**.20431**
Stddev	.00025	.00074	.21	.00103	.00111	.059	.00051	.0968	.00072
%RSD	.12046	.36175	.2534	.48212	.53245	.38097	.25580	1.0577	.35006
#1	.20444	.20516	84.14	.21241	.20700	15.434	.19983	9.2231	.20481
#2	.20479	.20621	83.84	.21387	.20857	15.518	.19911	9.0862	.20380
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit								9.0000	
Low Limit								-.00500	

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.21038**	**.20553**	**.20193**
Stddev	.00312	.00075	.00203
%RSD	1.4810	.36536	1.0065
#1	.20818	.20500	.20337
#2	.21259	.20606	.20050
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1424.6**	**1054.9**	**31923.**	**10624.**
Stddev	1.1	.6	81.	37.
%RSD	.07773	.05438	.25268	.34586
#1	1423.8	1054.5	31981.	10650.
#2	1425.4	1055.3	31866.	10598.
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-69673-e-1-d msd Acquired: 10/29/2014 23:44:02 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05311**	**10.127**	**.20739**	**.27213**	**.23429**	**.19629**	**131.00**	**.20327**	**.19898**
Stddev	.00048	.020	.00180	.00022	.00075	.00006	.29	.00064	.00017
%RSD	.90548	.19311	.86694	.08102	.32149	.03010	.22267	.31250	.08467
#1	.05345	10.113	.20867	.27229	.23482	.19624	131.20	.20282	.19886
#2	.05277	10.140	.20612	.27198	.23375	.19633	130.79	.20372	.19910
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.19377**	**.20456**	**9.8365**	**13.794**	**.23543**	**69.182**	**.20523**	**.21055**	**14.978**
Stddev	.00066	.00159	.0092	.042	.00139	.080	.00033	.00056	.026
%RSD	.33808	.77796	.09399	.30345	.58984	.11590	.16318	.26590	.17628
#1	.19424	.20568	9.8431	13.764	.23445	69.239	.20500	.21015	14.959
#2	.19331	.20343	9.8300	13.824	.23641	69.125	.20547	.21094	14.997
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.20146**	**.20263**	**84.11**	**.21271**	**.21212**	**15.372**	**.19824**	F **9.1559**	**.20177**
Stddev	.00155	.00346	.02	.00119	.00142	.001	.00067	.1220	.00013
%RSD	.77150	1.7081	.0280	.55983	.67028	.00487	.33725	1.3323	.06239
#1	.20036	.20018	84.09	.21355	.21111	15.372	.19871	9.2422	.20186
#2	.20256	.20507	84.12	.21187	.21312	15.373	.19777	9.0697	.20169
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit								9.0000	
Low Limit								-.00500	

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.21281**	**.20283**	**.19921**
Stddev	.00648	.00037	.00280
%RSD	3.0449	.18487	1.4054
#1	.21739	.20310	.19723
#2	.20823	.20257	.20119
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1420.0**	**1049.9**	**31960.**	**10590.**
Stddev	3.2	1.0	97.	20.
%RSD	.22522	.09095	.30468	.19153
#1	1422.3	1050.6	31891.	10575.
#2	1417.7	1049.2	32028.	10604.
Check ?	None	None	None	None
Value				
Range				

Sample Name: BLANK Acquired: 10/29/2014 23:46:50 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00032**	**-.00178**	**.00006**	**.00100**	**.00000**	**.00003**	**.02212**	**.00003**	**-.00004**
Stddev	.00025	.00360	.00549	.00026	.00001	.00004	.00970	.00008	.00002
%RSD	77.277	202.08	9780.0	25.648	404.91	123.43	43.838	221.69	48.084
#1	.00050	.00076	-.00383	.00118	.00001	.00000	.01526	.00009	-.00005
#2	.00015	-.00433	.00394	.00082	-.00001	.00006	.02897	-.00002	-.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00044**	**.00049**	**.00137**	**.00828**	**.00066**	**.00108**	**.00005**	**-.00039**	**.00446**
Stddev	.00011	.00012	.00165	.01001	.00028	.00638	.00011	.00017	.00075
%RSD	25.861	23.811	120.22	120.86	41.726	589.89	240.34	44.105	16.732
#1	.00052	.00057	.00021	.00120	.00086	.00559	.00013	-.00051	.00499
#2	.00036	.00041	.00254	.01536	.00047	-.00343	-.00003	-.00027	.00393
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00061**	**.00196**	**.0117**	**-.00047**	**-.00195**	**-.00056**	**-.00015**	**.00153**	**.00033**
Stddev	.00030	.00014	.0215	.00105	.00024	.00166	.00036	.00058	.00047
%RSD	49.839	7.0011	184.2	222.90	12.325	297.57	246.93	38.139	141.47
#1	.00040	.00187	-.0035	-.00121	-.00212	.00062	-.00040	.00112	-.00000
#2	.00083	.00206	.0269	.00027	-.00178	-.00174	.00011	.00194	.00066
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.00034**	**-.00006**	**.00179**
Stddev	.00143	.00017	.00034
%RSD	421.79	282.95	19.221
#1	.00135	.00006	.00154
#2	-.00067	-.00018	.00203
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1682.0**	**1142.4**	**34383.**	**10680.**
Stddev	6.7	7.8	124.	76.
%RSD	.39617	.68231	.36122	.71487
#1	1677.3	1136.9	34295.	10626.
#2	1686.7	1147.9	34470.	10734.
Check ?	None	None	None	None
Value				
Range				

Sample Name: mb 480-210294/1-a Acquired: 10/29/2014 23:49:42 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00033**	**.00385**	**-.00063**	**.00230**	**.00003**	**.00004**	**.03447**	**-.00006**	**.00018**
Stddev	.00100	.00403	.00219	.00014	.00000	.00007	.00139	.00006	.00024
%RSD	301.09	104.85	345.79	6.2611	7.4331	155.20	4.0406	91.217	133.32
#1	.00104	.00670	-.00219	.00220	.00003	.00009	.03349	-.00010	.00001
#2	-.00037	.00099	.00092	.00241	.00003	-.00000	.03545	-.00002	.00035
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**.00011**	**.00179**	**-.00750**	**.00069**	**-.00308**	**-.00010**	**.00008**	**.00810**
Stddev	.00006	.00000	.00055	.01548	.00036	.00127	.00009	.00018	.00057
%RSD	130.29	3.8338	30.497	206.42	51.872	41.150	91.016	244.58	7.0245
#1	.00009	.00011	.00218	.00345	.00044	-.00218	-.00016	-.00005	.00850
#2	.00000	.00011	.00141	-.01844	.00094	-.00398	-.00003	.00021	.00770
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00039**	**-.00010**	F **.0262**	**-.00094**	**-.00227**	**-.00046**	**.00008**	**.00087**	**.00041**
Stddev	.00025	.00033	.0382	.00014	.00046	.00903	.00089	.00004	.00003
%RSD	62.973	346.33	146.1	14.821	20.144	1976.8	1100.8	4.9362	8.5130
#1	-.00022	-.00033	-.0009	-.00104	-.00259	.00593	-.00055	.00084	.00038
#2	-.00057	.00014	.0532	-.00084	-.00195	-.00684	.00071	.00090	.00043
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			.0030						
Low Limit			-.0030						

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.00179**	**-.00020**	**.00086**
Stddev	.00256	.00012	.00023
%RSD	142.84	57.754	26.539
#1	-.00002	-.00029	.00102
#2	.00360	-.00012	.00070
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1705.6**	**1155.5**	**35362.**	**10868.**
Stddev	2.7	7.8	425.	167.
%RSD	.16045	.67643	1.2009	1.5410
#1	1707.6	1161.0	35662.	10987.
#2	1703.7	1149.9	35062.	10750.
Check ?	None	None	None	None
Value				
Range				

Sample Name: lcs 480-210294/2-a Acquired: 10/29/2014 23:52:35 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05095**	**9.9543**	**.19721**	**.20389**	**.20874**	**.19426**	**9.4263**	**.19454**	**.19396**
Stddev	.00016	.1064	.00231	.00073	.00061	.00047	.1270	.00088	.00003
%RSD	.30447	1.0693	1.1724	.35726	.29258	.24338	1.3470	.45240	.01673
#1	.05084	10.030	.19884	.20440	.20831	.19460	9.5161	.19516	.19398
#2	.05106	9.8791	.19557	.20337	.20917	.19393	9.3366	.19392	.19393
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.19464**	**.19741**	**9.7020**	**9.8892**	**.19911**	**10.132**	**.20455**	**.20506**	**9.8841**
Stddev	.00172	.00028	.0541	.0293	.00023	.007	.00105	.00157	.0290
%RSD	.88184	.14419	.55790	.29625	.11712	.07173	.51162	.76716	.29385
#1	.19586	.19761	9.7403	9.8685	.19927	10.127	.20381	.20617	9.9046
#2	.19343	.19720	9.6637	9.9099	.19894	10.137	.20529	.20395	9.8636
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.19433**	**.19434**	**10.04**	**.20262**	**.19506**	**9.9071**	**.18929**	**.19937**	**.20004**
Stddev	.00033	.00071	.01	.00012	.00019	.1085	.00065	.00023	.00086
%RSD	.16726	.36583	.1424	.05908	.09551	1.0953	.34595	.11766	.43052
#1	.19410	.19485	10.05	.20254	.19493	9.9838	.18883	.19954	.19943
#2	.19456	.19384	10.03	.20271	.19519	9.8303	.18976	.19921	.20065
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.20477**	**.20319**	**.20207**
Stddev	.00119	.00060	.00028
%RSD	.58031	.29574	.13873
#1	.20393	.20277	.20227
#2	.20561	.20362	.20187
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1581.7**	**1120.4**	**33773.**	**10934.**
Stddev	1.4	.1	80.	67.
%RSD	.08974	.00700	.23612	.61206
#1	1582.7	1120.4	33829.	10886.
#2	1580.7	1120.3	33717.	10981.
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-69854-h-1-a Acquired: 10/29/2014 23:55:17 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00040**	**.01590**	**.00499**	**.49830**	**.11165**	**.00001**	**157.67**	**.00009**	**.00074**
Stddev	.00015	.00143	.00503	.00083	.00012	.00003	.11	.00009	.00000
%RSD	37.299	8.9672	100.70	.16646	.10939	275.16	.07103	93.515	.39734
#1	-.00050	.01691	.00855	.49888	.11174	.00004	157.59	.00016	.00074
#2	-.00029	.01490	.00144	.49771	.11157	-.00001	157.75	.00003	.00074
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00100**	**.00159**	**1.3026**	**11.508**	**.01317**	**51.062**	**.24720**	**.00061**	**41.464**
Stddev	.00021	.00007	.0059	.046	.00067	.170	.00040	.00095	.035
%RSD	21.113	4.1993	.45181	.40243	5.0624	.33248	.16013	156.32	.08508
#1	.00085	.00164	1.3067	11.476	.01364	51.182	.24748	.00128	41.439
#2	.00115	.00154	1.2984	11.541	.01270	50.942	.24692	-.00006	41.489
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00613**	**.00241**	**1.254**	**-.00072**	**.00543**	**10.298**	**-.00079**	**.35877**	**.00097**
Stddev	.00052	.00063	.003	.00054	.00073	.044	.00000	.00043	.00009
%RSD	8.4728	26.302	.2546	75.985	13.506	.42756	.43467	.11983	9.7365
#1	.00650	.00286	1.257	-.00110	.00595	10.266	-.00080	.35847	.00090
#2	.00576	.00196	1.252	-.00033	.00491	10.329	-.00079	.35907	.00104
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.00014**	**-.00014**	**.00030**
Stddev	.00032	.00026	.00028
%RSD	239.30	184.59	96.295
#1	-.00009	-.00033	.00009
#2	.00036	.00004	.00050
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1417.4**	**1043.6**	**31758.**	**10586.**
Stddev	3.9	3.9	55.	12.
%RSD	.27851	.37507	.17410	.11476
#1	1414.6	1040.9	31719.	10578.
#2	1420.2	1046.4	31797.	10595.
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-70047-a-1-a Acquired: 10/29/2014 23:58:04 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00007**	**.01698**	**-.00005**	**.00942**	**.09671**	**.00003**	**65.546**	**-.00008**	**.00303**
Stddev	.00090	.00217	.00427	.00013	.00081	.00002	.374	.00004	.00001
%RSD	1355.4	12.765	8748.4	1.3642	.83366	71.757	.57078	46.330	.28398
#1	.00057	.01545	-.00307	.00951	.09614	.00004	65.811	-.00011	.00303
#2	-.00071	.01851	.00297	.00933	.09728	.00001	65.282	-.00006	.00304
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00107**	**.00091**	**.02268**	**.64327**	**.00586**	**5.1180**	**.00816**	**-.00012**	**5.3578**
Stddev	.00004	.00070	.00089	.00994	.00040	.0155	.00004	.00023	.0174
%RSD	4.0819	76.519	3.9045	1.5448	6.8419	.30281	.49909	192.34	.32461
#1	.00110	.00042	.02330	.63624	.00615	5.1070	.00813	.00004	5.3455
#2	.00103	.00140	.02205	.65030	.00558	5.1289	.00819	-.00028	5.3701
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00029**	**.00230**	**6.602**	**-.00221**	**.00554**	**8.8834**	**-.00029**	**.20634**	**.00130**
Stddev	.00011	.00069	.009	.00191	.00016	.0056	.00181	.00049	.00015
%RSD	37.068	29.790	.1347	86.313	2.9466	.06251	622.98	.23794	11.342
#1	.00036	.00279	6.596	-.00355	.00566	8.8873	-.00157	.20599	.00140
#2	.00021	.00182	6.608	-.00086	.00543	8.8794	.00099	.20668	.00120
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00063**	**.00031**	**.00356**
Stddev	.00500	.00041	.00061
%RSD	794.38	131.81	17.007
#1	-.00417	.00060	.00313
#2	.00291	.00002	.00399
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1555.5**	**1097.1**	**33124.**	**10754.**
Stddev	.2	3.2	160.	7.
%RSD	.01520	.29603	.48421	.06841
#1	1555.7	1099.4	33238.	10760.
#2	1555.4	1094.8	33011.	10749.
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-70047-a-1-aPDS Acquired: 10/30/2014 0:00:54 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05252**	**10.115**	**.20626**	**.21279**	**.30063**	**.20518**	**72.539**	**.20305**	**.20228**
Stddev	.00018	.017	.00351	.00091	.00074	.00038	.473	.00069	.00029
%RSD	.34166	.17142	1.7021	.42738	.24488	.18297	.65206	.33945	.14493
#1	.05264	10.102	.20377	.21344	.30115	.20545	72.205	.20353	.20207
#2	.05239	10.127	.20874	.21215	.30010	.20492	72.874	.20256	.20249
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.19998**	**.20765**	**10.211**	**10.602**	**.20499**	**15.715**	**.21540**	**.20612**	**15.102**
Stddev	.00105	.00087	.016	.012	.00102	.076	.00074	.00111	.006
%RSD	.52568	.41958	.15656	.11024	.49700	.48125	.34531	.53938	.03891
#1	.19924	.20703	10.223	10.610	.20571	15.768	.21592	.20691	15.106
#2	.20073	.20826	10.200	10.594	.20427	15.661	.21487	.20534	15.097
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.20188**	**.20781**	**16.62**	**.20661**	**.20887**	**18.443**	**.19445**	**.39646**	**.20478**
Stddev	.00123	.00280	.01	.00217	.00887	.107	.00006	.00048	.00088
%RSD	.60809	1.3479	.0564	1.0505	4.2468	.58235	.02980	.12074	.43104
#1	.20101	.20583	16.61	.20814	.20259	18.367	.19441	.39680	.20416
#2	.20274	.20979	16.62	.20507	.21514	18.519	.19449	.39612	.20541
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.20488**	**.20725**	**.20822**
Stddev	.00334	.00041	.00053
%RSD	1.6302	.19727	.25473
#1	.20724	.20696	.20785
#2	.20251	.20754	.20860
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1507.9**	**1098.0**	**32825.**	**10773.**
Stddev	2.2	1.3	45.	40.
%RSD	.14435	.11570	.13599	.37106
#1	1509.5	1097.1	32794.	10801.
#2	1506.4	1098.9	32857.	10744.
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-70047-a-1-aSD@5 Acquired: 10/30/2014 0:03:35 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00009**	**.00934**	**-.00417**	**.00191**	**.01946**	**.00002**	**12.809**	**-.00016**	**.00053**
Stddev	.00026	.00449	.00453	.00038	.00012	.00003	.099	.00006	.00009
%RSD	284.86	48.089	108.71	20.003	.62508	175.42	.77151	39.001	16.716
#1	.00009	.00617	-.00096	.00218	.01955	-.00000	12.879	-.00012	.00047
#2	-.00027	.01252	-.00737	.00164	.01938	.00004	12.739	-.00021	.00059
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00089**	**.00058**	**.00575**	**.11970**	**.00132**	**.99457**	**.00154**	**-.00012**	**1.0436**
Stddev	.00009	.00031	.00052	.00662	.00013	.00256	.00009	.00028	.0081
%RSD	10.060	53.017	9.0454	5.5307	9.7754	.25730	5.7370	239.73	.77443
#1	.00095	.00080	.00612	.11501	.00123	.99638	.00161	.00008	1.0493
#2	.00083	.00037	.00538	.12438	.00141	.99276	.00148	-.00031	1.0378
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00032**	**.00114**	**1.242**	**-.00263**	**-.00438**	**1.7433**	**.00025**	**.04071**	**.00107**
Stddev	.00019	.00084	.002	.00019	.00422	.0018	.00009	.00027	.00047
%RSD	58.350	73.351	.1527	7.0656	96.354	.10475	33.537	.67101	44.291
#1	.00019	.00173	1.244	-.00250	-.00140	1.7420	.00031	.04091	.00141
#2	.00045	.00055	1.241	-.00276	-.00736	1.7446	.00019	.04052	.00074
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00209**	**.00025**	**.00104**
Stddev	.00107	.00030	.00067
%RSD	51.083	119.06	64.826
#1	-.00285	.00046	.00056
#2	-.00134	.00004	.00152
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1664.7**	**1143.6**	**34487.**	**10903.**
Stddev	2.8	2.9	8.	42.
%RSD	.16614	.25621	.02299	.38443
#1	1662.7	1141.5	34482.	10874.
#2	1666.6	1145.7	34493.	10933.
Check ?	None	None	None	None
Value				
Range				

Sample Name: CCV-2388838 Acquired: 10/30/2014 0:06:27 Type: QC
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.53429**	**25.752**	**.50616**	**.49449**	**.51098**	**.49894**	**24.595**	**.50298**	**.49997**	**.50804**	**.50072**	**25.170**	**25.031**	**.49909**
Stddev	.00030	.008	.00628	.00040	.00006	.00052	.117	.00175	.00061	.00088	.00290	.065	.104	.00296
%RSD	.05602	.02919	1.2406	.08171	.01096	.10348	.47711	.34772	.12214	.17314	.57919	.25822	.41712	.59263
#1	.53450	25.758	.51060	.49421	.51102	.49858	24.512	.50421	.49954	.50742	.50277	25.124	25.105	.50118
#2	.53408	25.747	.50172	.49478	.51094	.49931	24.678	.50174	.50040	.50866	.49867	25.216	24.957	.49700
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value														
Range														

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**26.059**	**.52466**	**.51149**	**24.827**	**.51357**	**.50522**	**25.41**	**.50877**	**.49877**	**25.190**	**.50962**	**.50561**	**.52137**	**.50448**
Stddev	.050	.00168	.00232	.092	.00111	.00200	.10	.00236	.01308	.025	.00185	.00032	.00259	.00048
%RSD	.19175	.32012	.45338	.36958	.21706	.39531	.3781	.46326	2.6222	.09913	.36380	.06275	.49753	.09428
#1	26.095	.52585	.51313	24.892	.51436	.50663	25.48	.51043	.50802	25.208	.51094	.50538	.52320	.50414
#2	26.024	.52347	.50985	24.762	.51278	.50380	25.35	.50710	.48952	25.172	.50831	.50583	.51953	.50481
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value														
Range														

Elem	V_2924	Zn2062
Units	ppm	ppm
Avg	**.50415**	**.52026**
Stddev	.00134	.00084
%RSD	.26621	.16139
#1	.50510	.52085
#2	.50320	.51966
Check ?	Chk Pass	Chk Pass
Value		
Range		

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1511.4**	**1121.0**	**33115.**	**10718.**
Stddev	3.0	4.5	28.	42.
%RSD	.19972	.40071	.08603	.38927
#1	1509.3	1117.9	33135.	10748.
#2	1513.6	1124.2	33095.	10689.

Sample Name: CCB-2388837 Acquired: 10/30/2014 0:09:12 Type: QC
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00008**	**-.00015**	**-.00125**	**.00066**	**.00063**	**.00009**	**.00160**	**-.00012**	**.00013**	**.00072**	**.00082**	**.00106**
Stddev	.00127	.00151	.00129	.00049	.00090	.00000	.00084	.00007	.00011	.00173	.00091	.00014
%RSD	1687.7	1013.7	103.15	73.474	143.77	3.3095	52.483	59.758	81.194	239.65	110.99	13.623
#1	.00097	.00092	-.00034	.00101	.00127	.00010	.00100	-.00007	.00006	.00194	.00147	.00116
#2	-.00082	-.00122	-.00216	.00032	-.00001	.00009	.00219	-.00017	.00021	-.00050	.00018	.00096
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit												
Low Limit												

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00382**	**-.00002**	**.03300**	**.00034**	**-.00003**	**.00151**	**-.00018**	**-.00003**	**.0008**	**.00019**	**-.00137**	**.00660**
Stddev	.00205	.00002	.04981	.00093	.00001	.00037	.00038	.00109	.0000	.00058	.00012	.01165
%RSD	53.586	92.508	150.92	275.70	53.506	24.802	208.31	3632.7	4.643	299.73	8.4603	176.44
#1	-.00238	-.00003	.06822	.00100	-.00002	.00177	.00009	.00074	.0008	-.00022	-.00145	.01484
#2	-.00527	-.00001	-.00222	-.00032	-.00004	.00124	-.00045	-.00080	.0009	.00060	-.00128	-.00163
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit												
Low Limit												

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00051**	**.00006**	**.00133**	**.00201**	**.00047**	**.00073**
Stddev	.00053	.00002	.00088	.00301	.00093	.00055
%RSD	104.92	29.133	65.749	150.02	198.18	75.037
#1	.00088	.00005	.00195	.00413	.00113	.00112
#2	.00013	.00007	.00071	-.00012	-.00019	.00034
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1706.2**	**1154.1**	**35053.**	**10794.**
Stddev	5.6	5.1	325.	55.
%RSD	.32923	.44434	.92677	.50519
#1	1710.2	1157.7	35283.	10755.
#2	1702.2	1150.4	34824.	10832.

Sample Name: CCVL-2388843 Acquired: 10/30/2014 0:12:06 Type: QC
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00651**	**.22181**	W **.01039**	**.02043**	**.00207**	**.00202**	**.48649**	**.00203**	**.00394**	**.00380**	**.00869**
Stddev	.00015	.01021	.00446	.00022	.00002	.00002	.00143	.00015	.00005	.00065	.00001
%RSD	2.3147	4.6043	42.922	1.0807	1.0343	1.1681	.29450	7.2431	1.3796	17.180	.10278
#1	.00641	.21459	.00723	.02058	.00206	.00200	.48751	.00213	.00398	.00426	.00868
#2	.00662	.22903	.01354	.02027	.00209	.00203	.48548	.00192	.00391	.00334	.00869
Check ?	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value			.01500								
Range			-30.000%								

Elem	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05129**	**.46844**	**.02943**	**.20605**	**.00292**	**.01024**	**.97234**	**.00939**	**.00814**	**.2036**	**.01842**
Stddev	.00017	.00836	.00027	.00457	.00009	.00033	.00048	.00069	.00035	.0204	.00112
%RSD	.33062	1.7853	.90252	2.2193	3.1080	3.2642	.04985	7.3688	4.3533	10.01	6.0789
#1	.05117	.47435	.02925	.20281	.00286	.01000	.97268	.00890	.00789	.2180	.01922
#2	.05141	.46252	.02962	.20928	.00299	.01047	.97200	.00988	.00839	.1891	.01763
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value											
Range											

Elem	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01980**	**.50269**	**.00909**	**.00495**	**.00535**	**.01424**	**.00499**	**.01001**
Stddev	.00105	.00377	.00005	.00002	.00005	.00703	.00018	.00092
%RSD	5.3147	.74991	.54442	.30782	1.0111	49.351	3.6134	9.1906
#1	.01905	.50003	.00906	.00496	.00539	.01920	.00487	.00936
#2	.02054	.50536	.00913	.00494	.00531	.00927	.00512	.01066
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1698.5**	**1160.7**	**34904.**	**10890.**
Stddev	5.1	3.8	15.	10.
%RSD	.30046	.32452	.04192	.09365
#1	1702.1	1163.4	34914.	10898.
#2	1694.9	1158.0	34893.	10883.

Sample Name: 480-70047-a-1-b ms Acquired: 10/30/2014 0:14:57 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05232**	**10.214**	**.20195**	**.21378**	**.30500**	**.19945**	**74.848**	**.19884**	**.20051**
Stddev	.00038	.025	.00309	.00287	.00102	.00041	.091	.00222	.00127
%RSD	.72950	.24361	1.5281	1.3430	.33568	.20568	.12173	1.1150	.63275
#1	.05259	10.231	.20413	.21175	.30572	.19974	74.912	.19727	.19961
#2	.05205	10.196	.19976	.21581	.30428	.19916	74.783	.20040	.20141
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.19742**	**.20307**	**9.8179**	**10.777**	**.20713**	**15.237**	**.21183**	**.20608**	**15.371**
Stddev	.00200	.00018	.0038	.056	.00101	.053	.00123	.00142	.091
%RSD	1.0139	.08950	.03852	.51680	.48633	.34466	.57934	.69016	.59513
#1	.19601	.20320	9.8152	10.817	.20784	15.274	.21270	.20507	15.436
#2	.19884	.20294	9.8205	10.738	.20642	15.200	.21096	.20709	15.306
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.20130**	**.20049**	**16.94**	**.20824**	**.20657**	**19.021**	**.19464**	**.40493**	**.20382**
Stddev	.00253	.00205	.18	.00232	.00391	.025	.00012	.00124	.00056
%RSD	1.2554	1.0224	1.040	1.1123	1.8930	.13106	.06178	.30697	.27460
#1	.19951	.19904	16.81	.20660	.20380	19.003	.19456	.40581	.20422
#2	.20308	.20193	17.06	.20988	.20933	19.039	.19473	.40405	.20342
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.20298**	**.20615**	**.20321**
Stddev	.00633	.00021	.00260
%RSD	3.1196	.09992	1.2778
#1	.19850	.20630	.20504
#2	.20746	.20601	.20137
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1505.3**	**1099.1**	**32879.**	**10751.**
Stddev	10.3	10.4	7.	18.
%RSD	.68470	.94453	.02271	.17085
#1	1512.6	1106.4	32874.	10764.
#2	1498.0	1091.8	32884.	10738.
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-70047-a-1-c msd Acquired: 10/30/2014 0:17:39 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05226**	**10.209**	**.19956**	**.21357**	**.30153**	**.19775**	**74.605**	**.19874**	**.20152**
Stddev	.00052	.042	.00358	.00075	.00301	.00062	.070	.00135	.00234
%RSD	.98877	.41428	1.7944	.35024	.99904	.31411	.09367	.68103	1.1604
#1	.05190	10.239	.20210	.21410	.29940	.19731	74.555	.19969	.20318
#2	.05263	10.179	.19703	.21304	.30366	.19819	74.654	.19778	.19987
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.19659**	**.20373**	**9.7285**	**10.712**	**.20634**	**15.156**	**.20975**	**.20495**	**15.325**
Stddev	.00193	.00158	.0170	.037	.00101	.113	.00269	.00109	.033
%RSD	.98160	.77465	.17490	.35011	.48881	.74445	1.2815	.53048	.21391
#1	.19522	.20262	9.7406	10.739	.20705	15.076	.20785	.20572	15.348
#2	.19795	.20485	9.7165	10.685	.20563	15.236	.21165	.20418	15.302
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.20085**	**.19993**	**16.89**	**.20659**	**.20298**	**19.034**	**.19481**	**.40316**	**.20161**
Stddev	.00028	.00348	.04	.00228	.00382	.051	.00109	.00108	.00218
%RSD	.13707	1.7389	.2269	1.1029	1.8816	.26979	.56001	.26755	1.0817
#1	.20066	.20239	16.92	.20820	.20028	19.070	.19558	.40392	.20007
#2	.20104	.19747	16.86	.20498	.20568	18.998	.19404	.40240	.20315
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.20639**	**.20496**	**.20358**
Stddev	.00832	.00248	.00574
%RSD	4.0295	1.2119	2.8218
#1	.21227	.20321	.19952
#2	.20051	.20672	.20765
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1507.1**	**1103.2**	**32862.**	**10793.**
Stddev	5.0	2.7	64.	4.
%RSD	.33296	.24512	.19408	.03664
#1	1503.6	1101.3	32907.	10795.
#2	1510.7	1105.1	32817.	10790.
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-70047-d-2-a Acquired: 10/30/2014 0:20:21 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00042**	**.00301**	**.00121**	**.31428**	**.61003**	**.00003**	**158.16**	**.00007**	**.00391**
Stddev	.00129	.01125	.00388	.00124	.00110	.00004	.30	.00005	.00001
%RSD	310.04	373.87	320.25	.39555	.18112	138.02	.19149	67.114	.20261
#1	.00050	.01096	.00396	.31341	.61082	.00000	158.37	.00010	.00391
#2	-.00133	-.00495	-.00153	.31516	.60925	.00005	157.94	.00004	.00392
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00157**	**.00156**	**9.8075**	**5.9434**	**.02163**	**51.227**	**.93295**	**.00038**	**112.61**
Stddev	.00108	.00003	.0140	.0237	.00019	.232	.00515	.00050	.23
%RSD	68.528	2.0570	.14255	.39923	.86566	.45329	.55224	131.65	.20278
#1	.00081	.00154	9.8174	5.9266	.02150	51.391	.93659	.00003	112.77
#2	.00233	.00158	9.7976	5.9602	.02176	51.062	.92930	.00074	112.45
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01231**	**.00384**	**13.42**	**-.00043**	**.00042**	**9.9474**	**.00046**	**1.3034**	**.00105**
Stddev	.00047	.00302	.02	.00163	.00703	.0288	.00021	.0005	.00049
%RSD	3.8011	78.621	.1170	381.32	1666.4	.28971	45.385	.03741	47.054
#1	.01198	.00170	13.41	.00073	-.00455	9.9678	.00031	1.3031	.00140
#2	.01264	.00597	13.43	-.00158	.00539	9.9270	.00061	1.3038	.00070
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00219**	**.00017**	**.00408**
Stddev	.00060	.00001	.00097
%RSD	27.303	7.0310	23.769
#1	-.00261	.00016	.00339
#2	-.00177	.00018	.00476
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1390.5**	**1042.6**	**31199.**	**10491.**
Stddev	4.3	3.6	134.	43.
%RSD	.31107	.34085	.42871	.40628
#1	1393.6	1045.1	31104.	10461.
#2	1387.5	1040.1	31293.	10522.
Check ?	None	None	None	None
Value				
Range				

Sample Name: BLANK Acquired: 10/30/2014 0:23:13 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00012**	**-.00680**	**.00015**	**.00082**	**.00013**	**.00002**	**.03852**	**-.00014**	**-.00012**
Stddev	.00010	.01812	.00382	.00037	.00021	.00006	.04302	.00011	.00022
%RSD	79.903	266.53	2622.1	44.946	164.22	419.04	111.68	77.935	188.87
#1	-.00005	.00601	-.00255	.00056	-.00002	-.00003	.06894	-.00006	.00004
#2	-.00019	-.01961	.00285	.00108	.00028	.00006	.00810	-.00022	-.00027
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**-.00011**	**.00199**	**-.02961**	**.00046**	**.01278**	**.00032**	**-.00040**	**.03697**
Stddev	.00056	.00002	.00022	.01885	.00013	.01376	.00027	.00015	.03164
%RSD	1577.4	18.042	11.233	63.680	28.431	107.65	85.002	37.673	85.583
#1	.00036	-.00013	.00215	-.04294	.00037	.00305	.00013	-.00050	.05935
#2	-.00043	-.00010	.00184	-.01627	.00056	.02251	.00052	-.00029	.01460
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00025**	**.00171**	**-.0088**	**-.00170**	**-.00027**	**.01242**	**-.00075**	**.00029**	**.00059**
Stddev	.00027	.00089	.0010	.00233	.00680	.00596	.00107	.00038	.00012
%RSD	108.48	52.103	10.83	137.17	2506.6	47.971	142.20	133.55	20.168
#1	-.00044	.00234	-.0095	-.00334	.00453	.01663	-.00151	.00056	.00051
#2	-.00006	.00108	-.0081	-.00005	-.00508	.00820	.00000	.00002	.00068
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.00113**	**-.00020**	**.00059**
Stddev	.00083	.00027	.00052
%RSD	73.924	136.21	87.436
#1	.00172	-.00039	.00023
#2	.00054	-.00001	.00096
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1693.5**	**1147.5**	**34349.**	**10683.**
Stddev	10.9	7.4	17.	59.
%RSD	.64160	.64432	.04911	.55573
#1	1685.8	1142.3	34361.	10641.
#2	1701.2	1152.8	34337.	10725.
Check ?	None	None	None	None
Value				
Range				

Sample Name: mb 480-210433/1-a Acquired: 10/30/2014 0:26:05 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**.00788**	**.00110**	**.00253**	**.00018**	**.00004**	**.04026**	**-.00025**	**.00007**
Stddev	.00025	.01077	.00162	.00019	.00000	.00002	.00217	.00008	.00002
%RSD	709.68	136.63	147.10	7.3060	2.2782	49.384	5.3980	33.541	27.170
#1	.00021	.00027	.00224	.00267	.00018	.00003	.04179	-.00019	.00005
#2	-.00014	.01550	-.00004	.00240	.00018	.00005	.03872	-.00030	.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00035**	**.00038**	**.00587**	**-.01470**	**.00026**	**-.00040**	**-.00019**	**.00000**	**.02552**
Stddev	.00006	.00011	.00151	.00169	.00007	.00447	.00004	.00005	.00193
%RSD	16.827	28.745	25.762	11.476	26.013	1115.5	19.421	4824.9	7.5550
#1	.00031	.00031	.00480	-.01590	.00031	.00276	-.00017	-.00003	.02415
#2	.00039	.00046	.00694	-.01351	.00022	-.00356	-.00022	.00004	.02688
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00032**	**-.00074**	F **.0031**	**-.00062**	**.00420**	**-.00690**	**-.00049**	**.00017**	**.00073**
Stddev	.00080	.00087	.0080	.00000	.00137	.00182	.00008	.00003	.00003
%RSD	250.83	116.81	258.6	.20435	32.698	26.314	16.073	15.007	4.7595
#1	-.00025	-.00013	-.0026	-.00062	.00323	-.00562	-.00044	.00019	.00075
#2	.00089	-.00136	.0088	-.00062	.00517	-.00818	-.00055	.00015	.00070
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			.0030						
Low Limit			-.0030						

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00242**	**-.00009**	**.00571**
Stddev	.00469	.00003	.00034
%RSD	193.80	29.370	6.0356
#1	.00090	-.00010	.00596
#2	-.00574	-.00007	.00547
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1709.5**	**1151.9**	**35571.**	**11053.**
Stddev	5.8	7.0	119.	47.
%RSD	.34141	.61187	.33508	.42369
#1	1713.6	1156.9	35655.	11086.
#2	1705.3	1146.9	35486.	11020.
Check ?	None	None	None	None
Value				
Range				

Sample Name: lcs 480-210433/2-a Acquired: 10/30/2014 0:28:57 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05151**	**9.9792**	**.19335**	**.20153**	**.20731**	**.19512**	**9.6933**	**.19474**	**.19543**
Stddev	.00068	.0902	.00047	.00154	.00007	.00114	.0633	.00125	.00008
%RSD	1.3106	.90371	.24486	.76443	.03479	.58560	.65268	.64261	.04128
#1	.05103	9.9155	.19369	.20044	.20736	.19431	9.6486	.19385	.19537
#2	.05199	10.043	.19302	.20262	.20726	.19593	9.7380	.19562	.19548
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.19802**	**.19922**	**9.7576**	**9.8635**	**.19601**	**10.094**	**.20435**	**.20352**	**9.8329**
Stddev	.00049	.00026	.0145	.0478	.00055	.012	.00116	.00155	.0442
%RSD	.24566	.12849	.14864	.48471	.28019	.11836	.56534	.76266	.44956
#1	.19836	.19940	9.7474	9.8297	.19562	10.103	.20353	.20242	9.8016
#2	.19768	.19904	9.7679	9.8973	.19639	10.086	.20517	.20462	9.8641
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.19529**	**.19503**	**10.05**	**.20311**	**.19950**	**10.119**	**.19230**	**.19890**	**.20032**
Stddev	.00008	.00024	.08	.00146	.00737	.036	.00033	.00075	.00059
%RSD	.04274	.12113	.8355	.72089	3.6918	.35905	.17079	.37548	.29425
#1	.19523	.19486	9.987	.20208	.19430	10.093	.19207	.19837	.20074
#2	.19535	.19519	10.11	.20415	.20471	10.144	.19253	.19943	.19991
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.20378**	**.20539**	**.20672**
Stddev	.00182	.00056	.00178
%RSD	.89231	.27363	.86019
#1	.20506	.20578	.20547
#2	.20249	.20499	.20798
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1585.7**	**1130.3**	**33737.**	**10824.**
Stddev	6.0	5.7	63.	44.
%RSD	.37567	.50070	.18574	.41099
#1	1589.9	1134.3	33781.	10855.
#2	1581.4	1126.3	33692.	10792.
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-70146-d-1-a Acquired: 10/30/2014 0:31:41 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00005**	**.25270**	**-.00057**	**.01378**	**.03322**	**.00008**	**85.695**	**-.00002**	**.00000**
Stddev	.00007	.00532	.00171	.00010	.00005	.00004	.723	.00005	.00011
%RSD	130.23	2.1037	300.87	.69525	.13643	45.509	.84347	234.47	4516.9
#1	-.00000	.24894	-.00178	.01384	.03318	.00005	85.184	-.00006	-.00007
#2	-.00010	.25646	.00064	.01371	.03325	.00010	86.206	.00001	.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00124**	**.00157**	**.14528**	**1.7181**	**.00359**	**6.7456**	**.00902**	**.00027**	**3.2202**
Stddev	.00085	.00040	.00049	.0021	.00008	.0074	.00010	.00022	.0227
%RSD	68.648	25.239	.33702	.12212	2.3417	.10939	1.1229	82.252	.70405
#1	.00064	.00129	.14563	1.7196	.00353	6.7404	.00895	.00011	3.2042
#2	.00185	.00185	.14494	1.7166	.00365	6.7508	.00909	.00042	3.2362
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00067**	**.00099**	**4.087**	**-.00089**	**.00175**	**4.2504**	**-.00022**	**.26229**	**.00811**
Stddev	.00024	.00065	.005	.00037	.00609	.0230	.00014	.00251	.00028
%RSD	36.032	65.937	.1305	41.455	347.17	.54043	62.161	.95711	3.3929
#1	.00084	.00145	4.091	-.00115	.00606	4.2341	-.00012	.26051	.00830
#2	.00050	.00053	4.084	-.00063	-.00255	4.2666	-.00032	.26406	.00791
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00382**	**.00030**	**.00814**
Stddev	.00315	.00023	.00070
%RSD	82.341	75.184	8.6402
#1	-.00605	.00014	.00864
#2	-.00160	.00046	.00765
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1541.3**	**1093.9**	**32805.**	**10698.**
Stddev	4.1	4.1	76.	98.
%RSD	.26853	.37316	.23049	.92018
#1	1538.3	1091.0	32859.	10768.
#2	1544.2	1096.8	32752.	10629.
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-70146-d-1-aPDS Acquired: 10/30/2014 0:34:29 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05313**	**10.164**	**.20888**	**.21556**	**.23531**	**.20287**	**92.774**	**.20405**	**.20123**
Stddev	.00027	.008	.00372	.00058	.00065	.00062	.753	.00046	.00021
%RSD	.51102	.07504	1.7815	.26744	.27418	.30760	.81191	.22497	.10522
#1	.05294	10.169	.20625	.21515	.23577	.20331	93.307	.20438	.20108
#2	.05332	10.158	.21151	.21596	.23486	.20242	92.241	.20373	.20137
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.20153**	**.21013**	**10.164**	**11.401**	**.19914**	**17.300**	**.21578**	**.20664**	**12.859**
Stddev	.00336	.00064	.059	.050	.00089	.004	.00018	.00043	.054
%RSD	1.6676	.30413	.58443	.44235	.44799	.02414	.08387	.20977	.42217
#1	.19915	.20968	10.206	11.366	.19851	17.303	.21565	.20634	12.821
#2	.20390	.21058	10.122	11.437	.19977	17.297	.21590	.20695	12.898
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.20055**	**.20626**	**13.83**	**.20490**	**.20745**	**14.193**	**.19544**	**.44267**	**.20975**
Stddev	.00096	.00334	.00	.00275	.00546	.133	.00071	.00234	.00041
%RSD	.48082	1.6197	.0148	1.3401	2.6333	.94010	.36455	.52753	.19764
#1	.19987	.20863	13.84	.20295	.21132	14.288	.19594	.44102	.21004
#2	.20123	.20390	13.83	.20684	.20359	14.099	.19493	.44432	.20946
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.20411**	**.20968**	**.21618**
Stddev	.00390	.00110	.00035
%RSD	1.9091	.52418	.16288
#1	.20686	.20891	.21593
#2	.20135	.21046	.21643
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1489.4**	**1090.1**	**32594.**	**10761.**
Stddev	4.9	4.3	61.	72.
%RSD	.32710	.39388	.18729	.66631
#1	1492.8	1093.1	32637.	10710.
#2	1485.9	1087.0	32551.	10812.
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-70146-d-1-aSD@5 Acquired: 10/30/2014 0:37:11 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00027**	**.05232**	**-.00218**	**.00282**	**.00676**	**.00007**	**16.970**	**-.00005**	**-.00002**
Stddev	.00003	.00426	.00110	.00036	.00002	.00005	.007	.00004	.00010
%RSD	11.872	8.1334	50.208	12.685	.30058	76.829	.04212	82.293	488.39
#1	.00029	.04931	-.00141	.00257	.00675	.00003	16.965	-.00008	.00005
#2	.00024	.05533	-.00296	.00308	.00678	.00011	16.975	-.00002	-.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00108**	**.00015**	**.02856**	**.32142**	**.00113**	**1.3039**	**.00159**	**-.00001**	**.62210**
Stddev	.00086	.00017	.00287	.01128	.00014	.0001	.00001	.00032	.00514
%RSD	79.125	117.34	10.037	3.5084	11.971	.00606	.39650	2345.8	.82649
#1	.00169	.00027	.02654	.32939	.00123	1.3040	.00158	-.00024	.61847
#2	.00048	.00003	.03059	.31344	.00103	1.3039	.00159	.00021	.62574
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00031**	**.00141**	**.7665**	**-.00035**	**-.00263**	**.84350**	**-.00049**	**.05133**	**.00133**
Stddev	.00006	.00144	.0164	.00162	.00024	.00339	.00082	.00015	.00001
%RSD	19.524	102.54	2.145	462.78	9.1121	.40159	167.28	.30005	.69002
#1	-.00035	.00242	.7781	.00080	-.00246	.84111	-.00107	.05122	.00134
#2	-.00027	.00039	.7549	-.00150	-.00280	.84590	.00009	.05144	.00133
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00205**	**.00024**	**.00119**
Stddev	.00492	.00015	.00162
%RSD	239.73	61.085	136.14
#1	-.00553	.00014	.00234
#2	.00143	.00035	.00004
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1648.2**	**1136.9**	**34226.**	**10761.**
Stddev	5.1	3.0	116.	20.
%RSD	.30894	.25974	.33839	.18640
#1	1651.8	1139.0	34308.	10747.
#2	1644.6	1134.8	34144.	10776.
Check ?	None	None	None	None
Value				
Range				

Sample Name: CCV-2388838 Acquired: 10/30/2014 0:40:04 Type: QC
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.53217**	**25.870**	**.51030**	**.50226**	**.50598**	**.49791**	**24.912**	**.50990**	**.50489**	**.51259**	**.50770**	**25.184**	**25.008**	**.50259**
Stddev	.00007	.071	.00174	.00333	.00348	.00324	.086	.00201	.00193	.00223	.00272	.122	.211	.00544
%RSD	.01283	.27476	.34121	.66370	.68749	.65046	.34687	.39450	.38140	.43437	.53513	.48300	.84455	1.0828
#1	.53222	25.820	.50907	.49990	.50353	.49562	24.850	.50847	.50352	.51102	.50578	25.098	24.859	.49874
#2	.53212	25.920	.51154	.50462	.50844	.50020	24.973	.51132	.50625	.51417	.50962	25.270	25.157	.50644
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value														
Range														

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**26.037**	**.52065**	**.51768**	**25.076**	**.51528**	**.51331**	**25.48**	**.51373**	**.50352**	**25.455**	**.51343**	**.50717**	**.51981**	**.50637**
Stddev	.043	.00057	.00151	.210	.00095	.00278	.12	.00340	.00148	.133	.00225	.00417	.00148	.00518
%RSD	.16545	.10890	.29092	.83683	.18437	.54122	.4611	.66109	.29379	.52379	.43876	.82299	.28443	1.0220
#1	26.007	.52105	.51662	24.928	.51461	.51135	25.40	.51133	.50248	25.361	.51183	.50422	.51876	.50271
#2	26.068	.52025	.51875	25.225	.51595	.51528	25.57	.51613	.50457	25.550	.51502	.51012	.52085	.51003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value														
Range														

Elem	V_2924	Zn2062
Units	ppm	ppm
Avg	**.50774**	**.52133**
Stddev	.00013	.00508
%RSD	.02611	.97373
#1	.50765	.52492
#2	.50783	.51774
Check ?	Chk Pass	Chk Pass
Value		
Range		

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1504.5**	**1112.0**	**33032.**	**10705.**
Stddev	5.5	3.8	8.	29.
%RSD	.36839	.34128	.02557	.27335
#1	1508.4	1114.7	33038.	10726.
#2	1500.6	1109.3	33026.	10684.

Sample Name: CCB-2388837 Acquired: 10/30/2014 0:42:48 Type: QC
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00041**	**-.00909**	**-.00269**	**.00079**	**-.00001**	**.00000**	**.00066**	**-.00010**	**.00015**	**.00059**	**.00019**	**-.00109**
Stddev	.00017	.00228	.00262	.00038	.00002	.00001	.00168	.00006	.00002	.00036	.00008	.00046
%RSD	42.700	25.138	97.362	47.687	138.96	391.76	253.80	59.241	15.550	60.710	43.320	41.973
#1	-.00029	-.00747	-.00084	.00052	-.00000	.00001	-.00053	-.00006	.00016	.00085	.00013	-.00142
#2	-.00053	-.01070	-.00454	.00105	-.00003	-.00000	.00185	-.00015	.00013	.00034	.00025	-.00077
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit												
Low Limit												

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.03203**	**.00074**	**-.00280**	**-.00030**	**-.00009**	**.00471**	**-.00037**	**.00023**	**-.0024**	**.00066**	**.00438**	**.01245**
Stddev	.00609	.00013	.00010	.00001	.00013	.00014	.00024	.00034	.0049	.00050	.00185	.00564
%RSD	18.998	17.246	3.4604	3.9406	141.28	2.8735	64.857	146.14	203.2	74.889	42.169	45.319
#1	-.03633	.00065	-.00287	-.00031	-.00000	.00480	-.00020	.00047	-.0059	.00031	.00569	.00846
#2	-.02773	.00083	-.00273	-.00029	-.00019	.00461	-.00054	-.00001	.0011	.00101	.00308	.01643
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit												
Low Limit												

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00054**	**.00004**	**.00043**	**-.00050**	**-.00018**	**.00111**
Stddev	.00009	.00002	.00014	.00370	.00008	.00171
%RSD	16.882	46.393	32.242	743.81	41.690	154.03
#1	-.00048	.00002	.00033	-.00311	-.00023	-.00010
#2	-.00061	.00005	.00053	.00212	-.00013	.00232
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1707.3**	**1156.0**	**34754.**	**10870.**
Stddev	3.2	2.4	323.	31.
%RSD	.18914	.20798	.92938	.28650
#1	1709.5	1157.7	34526.	10892.
#2	1705.0	1154.3	34983.	10848.

Sample Name: CCVL-2388843 Acquired: 10/30/2014 0:45:42 Type: QC
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00640**	**.20250**	**.01249**	**.02067**	**.00209**	**.00204**	**.49741**	**.00184**	**.00380**	**.00431**	**.00884**	**.04945**
Stddev	.00042	.00723	.00191	.00014	.00002	.00002	.00443	.00003	.00004	.00007	.00016	.00064
%RSD	6.6271	3.5714	15.263	.66626	.86027	.97766	.89088	1.7034	1.0170	1.6550	1.7880	1.2917
#1	.00610	.20762	.01115	.02077	.00207	.00205	.50054	.00182	.00377	.00426	.00873	.04900
#2	.00670	.19739	.01384	.02058	.00210	.00202	.49428	.00186	.00382	.00436	.00896	.04990
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value												
Range												

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.48020**	**.02925**	**.20380**	**.00278**	**.01018**	**.97247**	**.00915**	**.01193**	**.1893**	**.01774**	**.02114**	**.50863**
Stddev	.00312	.00025	.00402	.00002	.00022	.00051	.00082	.00015	.0009	.00058	.00915	.00437
%RSD	.64900	.86349	1.9728	.66021	2.1367	.05232	9.0036	1.2676	.4759	3.2786	43.303	.85889
#1	.48240	.02907	.20095	.00277	.01003	.97211	.00974	.01204	.1886	.01815	.02761	.51172
#2	.47799	.02943	.20664	.00280	.01033	.97283	.00857	.01183	.1899	.01733	.01467	.50554
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value												
Range												

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00892**	**.00497**	**.00548**	**.02012**	**.00491**	**.01101**
Stddev	.00046	.00005	.00011	.00064	.00010	.00083
%RSD	5.1741	1.0704	2.0437	3.1663	1.9645	7.5082
#1	.00924	.00501	.00540	.01967	.00497	.01043
#2	.00859	.00493	.00556	.02057	.00484	.01160
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1705.1**	**1164.1**	**34773.**	**10785.**
Stddev	7.5	5.0	116.	34.
%RSD	.44051	.43288	.33261	.31458
#1	1699.8	1160.5	34691.	10761.
#2	1710.5	1167.7	34855.	10809.

Sample Name: 480-70146-d-1-b ms Acquired: 10/30/2014 0:48:34 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05288**	**10.179**	**.19704**	**.21425**	**.23823**	**.19729**	**94.856**	**.19727**	**.19677**
Stddev	.00038	.010	.00106	.00045	.00110	.00051	.492	.00030	.00005
%RSD	.72796	.10203	.53817	.21108	.46180	.25823	.51892	.15316	.02398
#1	.05315	10.171	.19629	.21457	.23901	.19693	94.507	.19748	.19680
#2	.05261	10.186	.19779	.21393	.23746	.19765	95.204	.19705	.19674
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.19517**	**.19849**	**9.7857**	**11.596**	**.19990**	**16.840**	**.21204**	**.20363**	**13.007**
Stddev	.00144	.00196	.0454	.014	.00099	.086	.00085	.00070	.062
%RSD	.73535	.98570	.46361	.11797	.49759	.51057	.39900	.34379	.47446
#1	.19619	.19988	9.7537	11.587	.20061	16.901	.21264	.20412	13.051
#2	.19416	.19711	9.8178	11.606	.19920	16.779	.21144	.20313	12.964
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.19818**	**.19938**	**14.38**	**.20675**	**.20653**	**14.311**	**.19345**	**.45426**	**.20563**
Stddev	.00233	.00066	.00	.00012	.00492	.028	.00128	.00029	.00083
%RSD	1.1752	.33320	.0149	.05979	2.3847	.19656	.66038	.06371	.40269
#1	.19654	.19985	14.38	.20666	.20304	14.291	.19435	.45405	.20621
#2	.19983	.19891	14.38	.20684	.21001	14.331	.19255	.45446	.20504
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.20276**	**.20126**	**.20303**
Stddev	.00379	.00226	.00369
%RSD	1.8679	1.1227	1.8159
#1	.20544	.20285	.20563
#2	.20008	.19966	.20042
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1494.2**	**1098.6**	**32950.**	**10739.**
Stddev	.6	1.8	207.	39.
%RSD	.03864	.16046	.62841	.35858
#1	1494.6	1097.4	32803.	10766.
#2	1493.8	1099.9	33096.	10712.
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-70146-d-1-c msd Acquired: 10/30/2014 0:51:15 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05267**	**10.312**	**.19917**	**.21834**	**.23872**	**.19662**	**94.634**	**.19852**	**.19756**
Stddev	.00059	.021	.00119	.00024	.00137	.00048	.300	.00022	.00061
%RSD	1.1250	.19931	.59628	.11194	.57338	.24561	.31652	.11032	.30933
#1	.05225	10.297	.19833	.21817	.23776	.19697	94.422	.19868	.19712
#2	.05308	10.326	.20001	.21851	.23969	.19628	94.846	.19837	.19799
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.19464**	**.20068**	**9.7533**	**11.603**	**.20323**	**16.807**	**.21186**	**.20605**	**13.161**
Stddev	.00187	.00169	.0355	.003	.00143	.046	.00096	.00008	.019
%RSD	.96233	.84063	.36391	.02672	.70479	.27228	.45439	.03981	.14346
#1	.19596	.19949	9.7784	11.605	.20425	16.775	.21254	.20611	13.174
#2	.19331	.20187	9.7282	11.601	.20222	16.839	.21118	.20599	13.147
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.19884**	**.20285**	**14.45**	**.20705**	**.20553**	**14.363**	**.19663**	**.45349**	**.20541**
Stddev	.00006	.00263	.02	.00003	.00100	.057	.00268	.00011	.00070
%RSD	.03069	1.2967	.1365	.01410	.48449	.39419	1.3635	.02373	.34058
#1	.19880	.20099	14.43	.20707	.20624	14.323	.19474	.45357	.20590
#2	.19889	.20471	14.46	.20703	.20483	14.403	.19853	.45342	.20491
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.20097**	**.20304**	**.20434**
Stddev	.00384	.00120	.00156
%RSD	1.9108	.58969	.76587
#1	.20368	.20388	.20545
#2	.19825	.20219	.20323
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1488.2**	**1091.3**	**32865.**	**10790.**
Stddev	4.7	2.9	44.	16.
%RSD	.31334	.26270	.13268	.15268
#1	1491.5	1093.4	32896.	10778.
#2	1484.9	1089.3	32834.	10801.
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-70149-c-1-b Acquired: 10/30/2014 0:53:57 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00006**	**.02495**	**.01523**	**.39486**	**.73128**	**.00007**	**185.63**	**.00010**	**-.00003**
Stddev	.00023	.00273	.00023	.00158	.00415	.00002	2.79	.00007	.00010
%RSD	399.20	10.947	1.5290	.39917	.56738	31.942	1.5031	67.640	310.02
#1	.00010	.02688	.01539	.39374	.73421	.00008	183.66	.00005	.00004
#2	-.00022	.02302	.01507	.39597	.72834	.00005	187.60	.00015	-.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00247**	**.02040**	**9.8235**	**40.031**	**.02092**	**45.517**	**.84374**	**.00224**	**143.55**
Stddev	.00034	.00014	.0484	.118	.00020	.176	.00293	.00009	.98
%RSD	13.647	.67552	.49275	.29391	.96677	.38629	.34688	4.0103	.68442
#1	.00271	.02050	9.8577	40.114	.02078	45.393	.84167	.00231	144.25
#2	.00223	.02030	9.7893	39.947	.02107	45.642	.84581	.00218	142.86
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01405**	**.00662**	**.2603**	**-.00287**	**.00659**	**7.7471**	**.00049**	**3.0253**	**.00127**
Stddev	.00159	.00023	.0069	.00232	.00134	.0726	.00059	.0127	.00035
%RSD	11.282	3.4052	2.666	80.703	20.403	.93701	122.17	.41977	27.788
#1	.01517	.00646	.2554	-.00123	.00564	7.7984	.00007	3.0343	.00102
#2	.01293	.00678	.2652	-.00451	.00754	7.6958	.00090	3.0163	.00152
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00028**	**.00029**	**1.1811**
Stddev	.00119	.00010	.0080
%RSD	420.50	32.603	.67979
#1	-.00113	.00023	1.1754
#2	.00056	.00036	1.1867
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1355.8**	**1023.3**	**30893.**	**10430.**
Stddev	.3	4.1	82.	41.
%RSD	.02178	.39656	.26639	.39288
#1	1356.0	1026.2	30951.	10401.
#2	1355.6	1020.5	30835.	10459.
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-70153-f-1-a Acquired: 10/30/2014 0:57:01 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00032**	**1.7806**	**.00306**	**.01916**	**.05371**	**.00009**	**62.119**	**-.00012**	**.00050**
Stddev	.00007	.0006	.00172	.00027	.00017	.00004	.025	.00008	.00011
%RSD	22.149	.03127	56.237	1.4351	.32378	47.292	.04073	66.155	21.707
#1	-.00027	1.7802	.00428	.01935	.05358	.00012	62.137	-.00017	.00058
#2	-.00037	1.7809	.00185	.01896	.05383	.00006	62.101	-.00006	.00042
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00257**	**.00113**	**1.0085**	**2.1305**	**.00465**	**5.9612**	**.02970**	**.00026**	**12.322**
Stddev	.00020	.00000	.0037	.0080	.00034	.0082	.00007	.00010	.017
%RSD	7.6259	.09890	.36339	.37409	7.3936	.13822	.24852	40.735	.13800
#1	.00243	.00113	1.0111	2.1361	.00489	5.9554	.02965	.00018	12.334
#2	.00271	.00113	1.0059	2.1248	.00441	5.9670	.02975	.00033	12.310
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00200**	**.00328**	**8.702**	**-.00104**	**-.00004**	**11.512**	**-.00077**	**.18623**	**.04422**
Stddev	.00043	.00026	.005	.00127	.00873	.030	.00008	.00015	.00194
%RSD	21.544	7.9465	.0613	122.23	19885.	.25697	10.464	.07947	4.3915
#1	.00231	.00346	8.698	-.00193	-.00622	11.533	-.00082	.18634	.04560
#2	.00170	.00310	8.706	-.00014	.00613	11.491	-.00071	.18613	.04285
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.00296**	**.00272**	**.00882**
Stddev	.00423	.00010	.00080
%RSD	142.95	3.5964	9.0239
#1	-.00003	.00265	.00938
#2	.00595	.00279	.00826
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1551.0**	**1107.2**	**33278.**	**10774.**
Stddev	1.4	.0	42.	3.
%RSD	.08889	.00337	.12548	.02613
#1	1550.0	1107.1	33308.	10776.
#2	1552.0	1107.2	33249.	10772.
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-70153-f-2-a Acquired: 10/30/2014 0:59:49 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00003**	**.09599**	**-.00057**	**.27632**	**.10982**	**.00002**	**118.88**	**-.00011**	**.00117**
Stddev	.00012	.00107	.00401	.00020	.00011	.00001	2.90	.00024	.00012
%RSD	444.37	1.1119	702.04	.07138	.10128	34.317	2.4391	209.86	10.435
#1	-.00011	.09674	-.00340	.27646	.10990	.00002	120.93	-.00028	.00125
#2	.00006	.09523	.00226	.27619	.10974	.00003	116.83	.00006	.00108
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00224**	**.00162**	**.61711**	**16.573**	**.00548**	**13.641**	**1.6421**	**.00039**	**82.401**
Stddev	.00034	.00046	.00977	.139	.00038	.003	.0026	.00001	.592
%RSD	15.201	28.225	1.5834	.83843	6.9662	.01834	.15975	3.6824	.71902
#1	.00248	.00129	.62402	16.671	.00521	13.643	1.6439	.00038	82.820
#2	.00200	.00194	.61020	16.475	.00574	13.639	1.6402	.00040	81.982
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00720**	**.00303**	**11.31**	**-.00122**	**.00409**	**4.0713**	**-.00138**	**.43106**	**.00349**
Stddev	.00012	.00140	.05	.00003	.00522	.0751	.00044	.00513	.00042
%RSD	1.6471	46.222	.4828	2.7647	127.56	1.8445	32.124	1.1896	11.930
#1	.00728	.00402	11.35	-.00119	.00779	4.1244	-.00107	.43469	.00379
#2	.00712	.00204	11.27	-.00124	.00040	4.0182	-.00170	.42743	.00320
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.00230**	**.00042**	**.00607**
Stddev	.00420	.00013	.00097
%RSD	182.72	30.696	15.990
#1	.00526	.00033	.00676
#2	-.00067	.00051	.00538
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1436.5**	**1056.2**	**31958.**	**10586.**
Stddev	1.4	1.7	9.	171.
%RSD	.09879	.16152	.02796	1.6131
#1	1435.5	1055.0	31965.	10465.
#2	1437.5	1057.4	31952.	10706.
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-70154-a-2-a Acquired: 10/30/2014 1:02:36 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00039**	**.04697**	**.00276**	**.17226**	**.04328**	**.00003**	**63.783**	**-.00010**	**.00013**
Stddev	.00006	.00551	.00227	.00006	.00009	.00001	.970	.00001	.00002
%RSD	15.608	11.738	82.009	.03372	.20091	33.024	1.5213	14.219	17.454
#1	-.00035	.05087	.00116	.17230	.04334	.00004	63.097	-.00009	.00011
#2	-.00044	.04307	.00437	.17222	.04322	.00002	64.469	-.00011	.00014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00219**	**.00096**	**5.2098**	**.35830**	**.00274**	**16.265**	**.91580**	**.00239**	**38.566**
Stddev	.00014	.00011	.0508	.00287	.00000	.043	.00720	.00047	.188
%RSD	6.3163	11.244	.97428	.80006	.08561	.26194	.78643	19.692	.48683
#1	.00209	.00103	5.1740	.35627	.00274	16.296	.92089	.00206	38.434
#2	.00229	.00088	5.2457	.36032	.00274	16.235	.91071	.00272	38.699
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00070**	**.00341**	**1.255**	**-.00049**	**.00089**	**3.4662**	**.00005**	**.13358**	**.00172**
Stddev	.00087	.00042	.012	.00027	.00155	.0569	.00084	.00068	.00008
%RSD	123.29	12.450	.9312	54.518	175.55	1.6410	1594.3	.51128	4.9345
#1	.00009	.00311	1.247	-.00030	-.00021	3.4260	-.00054	.13310	.00178
#2	.00132	.00371	1.263	-.00068	.00199	3.5065	.00065	.13406	.00166
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.00350**	**.00110**	**.00429**
Stddev	.00196	.00010	.00063
%RSD	56.060	9.4657	14.767
#1	.00488	.00102	.00473
#2	.00211	.00117	.00384
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1504.9**	**1081.0**	**32512.**	**10751.**
Stddev	.1	.5	99.	86.
%RSD	.00895	.04644	.30508	.79664
#1	1504.9	1081.4	32441.	10811.
#2	1505.0	1080.6	32582.	10690.
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-70154-a-3-a Acquired: 10/30/2014 1:05:24 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00031**	**.18936**	**.03303**	**.16844**	**.07132**	**.00005**	**102.09**	**-.00010**	**.00208**
Stddev	.00035	.00470	.00334	.00084	.00068	.00006	.26	.00003	.00017
%RSD	113.07	2.4803	10.112	.49829	.94979	108.88	.25693	27.567	8.1012
#1	-.00056	.19268	.03067	.16903	.07180	.00001	102.28	-.00008	.00220
#2	-.00006	.18604	.03540	.16784	.07084	.00009	101.91	-.00012	.00196
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00513**	**.00198**	**24.838**	**1.7980**	**.00259**	**22.477**	**1.9940**	**.00731**	**72.527**
Stddev	.00047	.00001	.004	.0013	.00032	.152	.0056	.00013	.021
%RSD	9.1623	.40801	.01433	.07250	12.416	.67505	.27880	1.7399	.02897
#1	.00480	.00199	24.835	1.7971	.00236	22.584	1.9979	.00722	72.512
#2	.00546	.00198	24.840	1.7990	.00281	22.369	1.9901	.00740	72.542
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00180**	**.00261**	**2.576**	**-.00246**	**-.00260**	**8.9193**	**.00007**	**.19028**	**.00694**
Stddev	.00048	.00030	.016	.00271	.00577	.0077	.00008	.00075	.00011
%RSD	26.823	11.605	.6174	110.21	221.99	.08674	111.82	.39253	1.5839
#1	.00215	.00282	2.564	-.00437	.00148	8.9248	.00002	.18975	.00702
#2	.00146	.00239	2.587	-.00054	-.00668	8.9139	.00013	.19081	.00686
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.00286**	**.00530**	**.01343**
Stddev	.00302	.00014	.00035
%RSD	105.52	2.5611	2.6048
#1	.00073	.00520	.01368
#2	.00500	.00539	.01319
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1440.8**	**1058.9**	**32162.**	**10587.**
Stddev	.4	.0	263.	26.
%RSD	.02557	.00388	.81685	.24464
#1	1441.0	1059.0	31976.	10569.
#2	1440.5	1058.9	32348.	10606.
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-70154-a-4-a Acquired: 10/30/2014 1:08:11 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00024**	**.38792**	**.00115**	**.90241**	**.09837**	**.00014**	**41.206**	**.00005**	**.00097**
Stddev	.00056	.00813	.00091	.00700	.00012	.00006	.419	.00003	.00012
%RSD	230.79	2.0958	79.547	.77586	.12175	44.237	1.0175	49.608	12.348
#1	-.00015	.39367	.00180	.90736	.09829	.00009	40.909	.00007	.00106
#2	.00064	.38217	.00050	.89746	.09846	.00018	41.502	.00003	.00089
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00699**	**.00188**	**10.698**	**5.2032**	**.00180**	**12.991**	**3.2139**	**.00262**	**16.465**
Stddev	.00034	.00006	.098	.0464	.00036	.008	.0029	.00018	.067
%RSD	4.9250	3.1683	.91575	.89188	19.796	.06281	.08986	6.7119	.40398
#1	.00723	.00184	10.628	5.1704	.00155	12.985	3.2119	.00274	16.418
#2	.00674	.00192	10.767	5.2360	.00206	12.997	3.2159	.00249	16.512
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00172**	**.00388**	**4.984**	**-.00007**	**.00351**	**1.5033**	**.00026**	**.08732**	**.01582**
Stddev	.00069	.00227	.022	.00141	.00059	.0209	.00026	.00140	.00013
%RSD	40.356	58.565	.4432	2053.6	16.806	1.3870	99.366	1.6063	.84646
#1	.00221	.00227	5.000	.00093	.00309	1.4885	.00008	.08633	.01572
#2	.00123	.00549	4.968	-.00107	.00393	1.5180	.00045	.08831	.01591
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.00470**	**.00695**	**.01540**
Stddev	.00088	.00007	.00022
%RSD	18.745	1.0192	1.4276
#1	.00532	.00690	.01525
#2	.00407	.00700	.01556
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1543.0**	**1087.7**	**33164.**	**10833.**
Stddev	5.3	5.0	25.	99.
%RSD	.34453	.45618	.07546	.91028
#1	1539.3	1084.2	33182.	10903.
#2	1546.8	1091.2	33146.	10764.
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-70154-a-5-a Acquired: 10/30/2014 1:10:57 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00053**	**.03324**	**.03756**	**2.0129**	**.02876**	**.00006**	**58.139**	**-.00007**	**.00003**
Stddev	.00147	.00277	.00227	.0121	.00045	.00007	.688	.00001	.00019
%RSD	275.35	8.3269	6.0544	.60230	1.5522	120.96	1.1833	14.310	737.39
#1	.00157	.03520	.03917	2.0043	.02908	.00001	57.653	-.00007	.00016
#2	-.00051	.03128	.03595	2.0215	.02845	.00011	58.626	-.00006	-.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00164**	**.00115**	**.64666**	**19.815**	**.00242**	**7.5291**	**.19498**	**.04617**	**4.1748**
Stddev	.00056	.00002	.02289	.230	.00053	.0773	.00276	.00013	.0477
%RSD	34.025	1.3559	3.5402	1.1608	21.902	1.0266	1.4163	.28183	1.1434
#1	.00203	.00116	.66285	19.652	.00205	7.5838	.19693	.04608	4.2085
#2	.00124	.00114	.63048	19.977	.00280	7.4744	.19303	.04627	4.1410
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00060**	**.00372**	**10.68**	**-.00013**	**.00851**	**7.7646**	**-.00120**	**.12247**	**.00133**
Stddev	.00128	.00125	.04	.00078	.00249	.0450	.00085	.00126	.00047
%RSD	213.71	33.549	.4041	610.75	29.294	.58012	71.170	1.0312	35.593
#1	.00150	.00284	10.65	.00043	.00675	7.7328	-.00180	.12158	.00100
#2	-.00031	.00460	10.71	-.00068	.01028	7.7965	-.00060	.12336	.00166
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00120**	**.00136**	**.00429**
Stddev	.00790	.00010	.00091
%RSD	660.21	7.5060	21.203
#1	-.00678	.00143	.00364
#2	.00439	.00129	.00493
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1546.9**	**1094.9**	**32898.**	**10682.**
Stddev	3.8	4.6	253.	108.
%RSD	.24539	.41837	.77000	1.0146
#1	1549.5	1098.1	32719.	10759.
#2	1544.2	1091.6	33077.	10606.
Check ?	None	None	None	None
Value				
Range				

Sample Name: CCV-2388838 Acquired: 10/30/2014 1:13:44 Type: QC
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.53491**	**25.733**	**.51107**	**.50419**	**.51136**	**.49993**	**24.732**	**.50818**	**.50540**	**.51026**	**.49939**	**25.321**	**25.056**	**.50332**
Stddev	.00143	.122	.00154	.00005	.00147	.00029	.048	.00073	.00231	.00156	.00064	.001	.116	.00425
%RSD	.26672	.47417	.30077	.00909	.28693	.05812	.19479	.14311	.45804	.30631	.12728	.00551	.46240	.84451
#1	.53592	25.819	.51215	.50423	.51240	.50014	24.766	.50767	.50376	.50916	.49984	25.320	25.138	.50632
#2	.53390	25.646	.50998	.50416	.51032	.49973	24.698	.50869	.50704	.51137	.49894	25.322	24.975	.50031
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value														
Range														

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**26.009**	**.52372**	**.51785**	**25.048**	**.51285**	**.51095**	**25.44**	**.50947**	**.50864**	**25.239**	**.51139**	**.50680**	**.52101**	**.50440**
Stddev	.132	.00044	.00063	.241	.00066	.00075	.07	.00366	.00637	.124	.00334	.00239	.00005	.00290
%RSD	.50907	.08483	.12235	.96320	.12823	.14674	.2878	.71842	1.2520	.49068	.65302	.47078	.01029	.57495
#1	26.102	.52403	.51829	25.219	.51332	.51042	25.49	.51206	.51315	25.327	.50903	.50849	.52105	.50645
#2	25.915	.52340	.51740	24.878	.51239	.51148	25.39	.50688	.50414	25.152	.51375	.50512	.52097	.50235
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value														
Range														

Elem	V_2924	Zn2062
Units	ppm	ppm
Avg	**.50456**	**.52439**
Stddev	.00249	.00780
%RSD	.49411	1.4875
#1	.50280	.51888
#2	.50633	.52991
Check ?	Chk Pass	Chk Pass
Value		
Range		

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1505.7**	**1113.6**	**33165.**	**10670.**
Stddev	5.7	4.3	113.	7.
%RSD	.38144	.38532	.34214	.06425
#1	1501.7	1110.6	33085.	10665.
#2	1509.8	1116.6	33245.	10675.

Sample Name: CCB-2388837 Acquired: 10/30/2014 1:16:29 Type: QC
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00023**	**-.00030**	**-.00161**	**.00203**	**-.00002**	**.00010**	**-.00061**	**-.00025**	**-.00016**	**-.00033**	**-.00005**	**-.00074**
Stddev	.00048	.00459	.00234	.00001	.00001	.00001	.00095	.00010	.00000	.00016	.00006	.00100
%RSD	204.69	1550.4	145.15	.61709	36.999	11.545	154.84	40.096	1.9303	48.629	129.20	135.44
#1	-.00057	-.00354	-.00327	.00202	-.00002	.00011	-.00128	-.00032	-.00016	-.00022	-.00000	-.00145
#2	.00010	.00295	.00004	.00204	-.00003	.00009	.00006	-.00018	-.00016	-.00045	-.00009	-.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit												
Low Limit												

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.01178**	**.00052**	**-.00424**	**-.00024**	**-.00014**	**.00313**	**.00010**	**.00126**	**-.0078**	**-.00185**	**.00552**	**.00979**
Stddev	.00067	.00057	.00100	.00006	.00003	.00045	.00003	.00137	.0013	.00165	.00245	.00832
%RSD	5.7024	109.63	23.504	26.652	24.028	14.492	33.043	108.61	16.88	88.819	44.323	85.037
#1	-.01130	.00093	-.00354	-.00020	-.00016	.00345	.00008	.00223	-.0087	-.00302	.00725	.01568
#2	-.01225	.00012	-.00495	-.00029	-.00011	.00281	.00013	.00029	-.0069	-.00069	.00379	.00390
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit												
Low Limit												

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00070**	**.00006**	**.00059**	**-.00223**	**.00014**	**.00064**
Stddev	.00005	.00005	.00026	.00073	.00030	.00117
%RSD	7.5418	81.547	44.395	32.767	212.14	182.71
#1	.00074	.00010	.00078	-.00275	-.00007	.00147
#2	.00066	.00003	.00041	-.00172	.00035	-.00019
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1712.3**	**1164.2**	**34810.**	**10796.**
Stddev	10.5	5.6	46.	18.
%RSD	.61379	.48187	.13349	.16767
#1	1719.8	1168.1	34777.	10783.
#2	1704.9	1160.2	34843.	10809.

Sample Name: CCVL-2388843 Acquired: 10/30/2014 1:19:23 Type: QC
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00623**	**.20612**	**.01325**	**.02108**	**.00211**	**.00207**	**.48752**	**.00179**	**.00389**	**.00434**	**.00872**	**.04789**
Stddev	.00085	.00774	.00075	.00061	.00001	.00006	.00431	.00003	.00020	.00027	.00008	.00002
%RSD	13.699	3.7571	5.6774	2.8978	.46014	2.9246	.88493	1.4275	5.0371	6.1160	.87147	.03916
#1	.00562	.21159	.01379	.02151	.00212	.00203	.49057	.00178	.00403	.00453	.00877	.04791
#2	.00683	.20064	.01272	.02065	.00211	.00211	.48447	.00181	.00375	.00416	.00866	.04788
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value												
Range												

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.47147**	**.02900**	**.20377**	**.00291**	**.01025**	**.97450**	**.00984**	**.01107**	**.1905**	**.01729**	**.02669**	**.49739**
Stddev	.00045	.00007	.00325	.00004	.00015	.00245	.00033	.00320	.0020	.00076	.00329	.00716
%RSD	.09650	.23934	1.5963	1.3738	1.4986	.25111	3.3940	28.871	1.047	4.3699	12.322	1.4397
#1	.47179	.02905	.20608	.00293	.01035	.97277	.00961	.00881	.1919	.01675	.02436	.49233
#2	.47115	.02895	.20147	.00288	.01014	.97623	.01008	.01333	.1891	.01782	.02901	.50245
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value												
Range												

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00867**	**.00495**	**.00560**	**.01621**	**.00471**	**.01048**
Stddev	.00053	.00006	.00001	.00432	.00030	.00046
%RSD	6.0987	1.2474	.12756	26.668	6.3283	4.4310
#1	.00829	.00491	.00561	.01315	.00492	.01015
#2	.00904	.00499	.00560	.01926	.00450	.01081
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1695.7**	**1156.3**	**34976.**	**10850.**
Stddev	2.1	.9	9.	52.
%RSD	.12385	.07550	.02703	.47796
#1	1694.2	1155.7	34983.	10887.
#2	1697.2	1156.9	34969.	10814.

Sample Name: 480-70154-a-6-a Acquired: 10/30/2014 1:22:14 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00047**	**.01886**	**.03649**	**1.9893**	**.02784**	**.00006**	**57.370**	**-.00021**	**-.00005**
Stddev	.00069	.00111	.00416	.0037	.00010	.00003	.057	.00002	.00003
%RSD	145.72	5.9008	11.413	.18605	.36570	52.873	.09894	8.6924	58.158
#1	.00001	.01964	.03355	1.9866	.02791	.00004	57.410	-.00022	-.00007
#2	-.00096	.01807	.03944	1.9919	.02777	.00009	57.330	-.00019	-.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00145**	**.00099**	**.60979**	**19.368**	**.00202**	**7.3403**	**.19032**	**.04598**	**3.9920**
Stddev	.00083	.00003	.00540	.022	.00009	.0011	.00087	.00006	.0052
%RSD	57.158	3.2776	.88556	.11437	4.4749	.01516	.45897	.13598	.13020
#1	.00203	.00101	.60597	19.353	.00208	7.3411	.19094	.04594	3.9956
#2	.00086	.00097	.61361	19.384	.00196	7.3395	.18970	.04603	3.9883
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00066**	**.00324**	**10.49**	**-.00142**	**-.00026**	**7.6308**	**-.00071**	**.11952**	**.00157**
Stddev	.00020	.00134	.01	.00017	.00182	.0323	.00050	.00015	.00029
%RSD	29.710	41.530	.1135	12.226	707.83	.42314	69.516	.12183	18.498
#1	.00052	.00419	10.48	-.00130	-.00155	7.6536	-.00036	.11941	.00178
#2	.00080	.00229	10.50	-.00155	.00103	7.6080	-.00106	.11962	.00137
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00352**	**.00143**	**.00262**
Stddev	.00360	.00031	.00006
%RSD	102.20	21.334	2.4498
#1	-.00098	.00165	.00267
#2	-.00607	.00122	.00258
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1556.9**	**1105.9**	**33271.**	**10808.**
Stddev	6.3	1.9	70.	1.
%RSD	.40521	.16887	.21029	.00830
#1	1561.3	1107.2	33222.	10809.
#2	1552.4	1104.5	33321.	10807.
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-70154-a-7-a Acquired: 10/30/2014 1:25:01 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00006**	**.07823**	**.00092**	**.14439**	**.02012**	**.00006**	**12.113**	**-.00031**	**.00001**
Stddev	.00042	.00373	.00020	.00088	.00014	.00005	.098	.00014	.00006
%RSD	679.12	4.7679	22.267	.60680	.70822	77.232	.81144	45.369	867.19
#1	-.00023	.08087	.00077	.14501	.02002	.00003	12.183	-.00021	-.00004
#2	.00036	.07560	.00106	.14377	.02022	.00010	12.044	-.00041	.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00158**	**.00045**	**.58271**	**.50019**	**.00068**	**4.0670**	**.03728**	**.00019**	**3.9486**
Stddev	.00011	.00003	.00601	.01558	.00008	.0304	.00004	.00023	.0098
%RSD	7.1881	7.1954	1.0321	3.1158	12.043	.74739	.11834	120.81	.24918
#1	.00166	.00043	.58696	.48917	.00074	4.0455	.03731	.00003	3.9417
#2	.00150	.00047	.57846	.51121	.00063	4.0885	.03725	.00035	3.9556
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00012**	**.00270**	**1.757**	**.00025**	**.00136**	**.26945**	**-.00068**	**.02533**	**.00301**
Stddev	.00064	.00011	.008	.00152	.00328	.00549	.00007	.00009	.00023
%RSD	538.15	3.9808	.4396	598.55	241.42	2.0365	10.665	.34176	7.7093
#1	-.00033	.00262	1.763	.00133	.00368	.27333	-.00063	.02527	.00317
#2	.00057	.00278	1.752	-.00082	-.00096	.26557	-.00074	.02539	.00284
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00023**	**.00117**	**.00633**
Stddev	.00437	.00021	.00194
%RSD	1869.7	18.137	30.627
#1	.00286	.00132	.00770
#2	-.00333	.00102	.00496
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1641.1**	**1127.3**	**34014.**	**10833.**
Stddev	2.5	1.3	105.	23.
%RSD	.15143	.11546	.30752	.21312
#1	1639.3	1126.4	34088.	10816.
#2	1642.9	1128.3	33940.	10849.
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-70154-a-8-a Acquired: 10/30/2014 1:27:50 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00003**	**.07415**	**.00257**	**.20473**	**.02442**	**.00002**	**16.108**	**-.00017**	**-.00005**
Stddev	.00015	.00124	.00149	.00080	.00005	.00001	.163	.00005	.00000
%RSD	535.26	1.6658	57.856	.39320	.18528	64.404	1.0095	31.950	9.2421
#1	-.00013	.07503	.00152	.20416	.02445	.00003	16.223	-.00013	-.00004
#2	.00008	.07328	.00362	.20530	.02439	.00001	15.993	-.00021	-.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00091**	**.00070**	**.53886**	**.27214**	**.00092**	**5.3726**	**.03998**	**.00027**	**6.6674**
Stddev	.00005	.00038	.00100	.00802	.00014	.0249	.00003	.00000	.0033
%RSD	5.8986	54.349	.18582	2.9459	14.855	.46314	.08024	.74616	.04940
#1	.00087	.00043	.53815	.27781	.00082	5.3902	.04000	.00027	6.6697
#2	.00095	.00096	.53957	.26647	.00101	5.3550	.03995	.00027	6.6650
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00049**	**.00330**	**1.776**	**-.00191**	**.00386**	**.23278**	**.00034**	**.03433**	**.00297**
Stddev	.00115	.00178	.012	.00001	.00503	.00269	.00018	.00015	.00019
%RSD	237.09	54.102	.6924	.54606	130.15	1.1573	54.233	.43289	6.3473
#1	-.00033	.00204	1.767	-.00191	.00742	.23087	.00047	.03422	.00310
#2	.00130	.00456	1.785	-.00190	.00031	.23468	.00021	.03443	.00284
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00192**	**.00084**	**.00876**
Stddev	.00361	.00027	.00098
%RSD	187.95	31.725	11.150
#1	.00063	.00103	.00945
#2	-.00448	.00065	.00807
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1630.2**	**1128.3**	**34087.**	**10769.**
Stddev	.2	7.2	58.	60.
%RSD	.01080	.63910	.16968	.55933
#1	1630.3	1133.4	34046.	10726.
#2	1630.1	1123.2	34127.	10811.
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-70156-c-8-a Acquired: 10/30/2014 1:30:40 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00013**	**.01158**	**-.00620**	**.02729**	**.00001**	**-.00001**	**.01673**	**-.00002**	**.00010**
Stddev	.00088	.01254	.00304	.00033	.00002	.00002	.00130	.00002	.00018
%RSD	692.87	108.33	48.994	1.2139	430.92	145.10	7.7946	116.10	179.05
#1	-.00050	.00271	-.00405	.02753	-.00001	.00000	.01581	-.00000	.00022
#2	.00075	.02045	-.00835	.02706	.00002	-.00003	.01765	-.00003	-.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00035**	**.00205**	**.00074**	**-.02114**	**.00068**	**-.00255**	**-.00021**	**-.00030**	**.00343**
Stddev	.00029	.00028	.00098	.01635	.00029	.00353	.00001	.00044	.00226
%RSD	81.637	13.459	132.85	77.359	42.404	138.35	3.2399	147.41	65.851
#1	-.00056	.00185	.00004	-.03270	.00088	-.00505	-.00021	-.00062	.00503
#2	-.00015	.00224	.00143	-.00958	.00048	-.00006	-.00020	.00001	.00183
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00011**	**.00152**	**-.0031**	**.00087**	**.00735**	**.01019**	**-.00010**	**.00013**	**.00042**
Stddev	.00017	.00140	.0039	.00002	.00441	.00140	.00049	.00001	.00046
%RSD	151.99	92.194	126.3	2.6213	59.934	13.781	482.91	4.0677	110.75
#1	.00001	.00053	-.0059	.00086	.01047	.00919	.00024	.00012	.00009
#2	-.00023	.00250	-.0003	.00089	.00424	.01118	-.00045	.00013	.00074
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00239**	**.00013**	**.00542**
Stddev	.00070	.00020	.00094
%RSD	29.449	153.10	17.402
#1	-.00289	-.00001	.00475
#2	-.00189	.00027	.00609
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1708.4**	**1150.3**	**35202.**	**11015.**
Stddev	6.3	3.8	39.	19.
%RSD	.36944	.33258	.11058	.17564
#1	1703.9	1147.6	35230.	11029.
#2	1712.8	1153.0	35175.	11001.
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-70157-h-1-a Acquired: 10/30/2014 1:33:32 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00021**	**.02444**	**.00541**	**.31323**	**.18957**	**.00003**	**176.17**	**-.00004**	**.00471**
Stddev	.00021	.01179	.00060	.00138	.00144	.00004	1.21	.00017	.00008
%RSD	99.285	48.237	11.133	.43976	.76156	136.92	.68820	429.23	1.7245
#1	-.00035	.01611	.00498	.31420	.19059	.00006	175.31	.00008	.00477
#2	-.00006	.03278	.00583	.31225	.18855	.00000	177.03	-.00016	.00465
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00107**	**.00181**	**2.5651**	**4.8069**	**.00571**	**26.322**	**1.8477**	**.00015**	**69.557**
Stddev	.00075	.00001	.0218	.0075	.00041	.111	.0034	.00034	.053
%RSD	69.716	.39903	.85002	.15551	7.2607	.42028	.18111	227.20	.07663
#1	.00054	.00182	2.5496	4.8016	.00542	26.400	1.8501	-.00009	69.519
#2	.00160	.00181	2.5805	4.8122	.00601	26.244	1.8453	.00040	69.595
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00664**	**.00102**	**3.661**	**.00062**	**.00421**	**6.4666**	**-.00083**	**.62855**	**.00108**
Stddev	.00031	.00169	.014	.00148	.00715	.0097	.00001	.00027	.00004
%RSD	4.6813	165.92	.3909	237.16	169.88	.15009	.96491	.04302	3.7099
#1	.00686	.00221	3.651	.00167	.00927	6.4735	-.00083	.62836	.00106
#2	.00642	-.00018	3.671	-.00042	-.00085	6.4598	-.00082	.62874	.00111
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.00002**	**.00052**	**.00514**
Stddev	.00199	.00009	.00127
%RSD	8406.0	17.123	24.639
#1	-.00138	.00059	.00603
#2	.00143	.00046	.00424
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1401.0**	**1032.1**	**31356.**	**10603.**
Stddev	.6	.0	244.	65.
%RSD	.04433	.00083	.77824	.61461
#1	1400.6	1032.1	31183.	10650.
#2	1401.5	1032.1	31528.	10557.
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-70158-a-1-a Acquired: 10/30/2014 1:36:25 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00083**	**.02150**	**.00116**	**.31577**	**.19461**	**.00000**	**182.74**	**-.00015**	**.00473**
Stddev	.00117	.00055	.00645	.00058	.00028	.00007	.71	.00009	.00022
%RSD	142.09	2.5682	555.51	.18375	.14145	87517.	.38621	57.509	4.5664
#1	-.00000	.02111	.00572	.31618	.19441	-.00005	182.24	-.00009	.00457
#2	.00165	.02189	-.00340	.31536	.19480	.00005	183.24	-.00022	.00488
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00089**	**.00152**	**2.6016**	**4.9357**	**.00589**	**27.069**	**1.9009**	**-.00026**	**71.448**
Stddev	.00116	.00016	.0069	.0618	.00031	.024	.0082	.00019	.314
%RSD	129.69	10.469	.26400	1.2526	5.1790	.08750	.43345	74.888	.43956
#1	.00171	.00141	2.5967	4.8920	.00568	27.052	1.9067	-.00012	71.226
#2	.00007	.00163	2.6065	4.9794	.00611	27.086	1.8951	-.00039	71.670
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00722**	**.00482**	**3.698**	**-.00181**	**.00047**	**6.6230**	**-.00092**	**.64356**	**.00137**
Stddev	.00027	.00028	.002	.00003	.00306	.0249	.00070	.00629	.00023
%RSD	3.7216	5.8677	.0639	1.9205	655.43	.37582	75.588	.97689	16.791
#1	.00741	.00462	3.699	-.00184	.00263	6.6054	-.00043	.63911	.00121
#2	.00703	.00502	3.696	-.00179	-.00169	6.6406	-.00142	.64800	.00153
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00262**	**.00028**	**.00502**
Stddev	.00043	.00008	.00157
%RSD	16.553	27.488	31.275
#1	-.00292	.00033	.00612
#2	-.00231	.00022	.00391
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1402.1**	**1034.9**	**30944.**	**10464.**
Stddev	3.9	3.8	1.	26.
%RSD	.27878	.37154	.00272	.25194
#1	1399.3	1032.2	30944.	10483.
#2	1404.9	1037.7	30943.	10446.
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-70166-a-1-a Acquired: 10/30/2014 1:39:18 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00006**	**.35257**	**.00111**	**.03715**	**.11614**	**.00004**	**83.095**	**.00055**	**.00339**
Stddev	.00093	.00477	.00214	.00046	.00069	.00004	1.004	.00002	.00001
%RSD	1649.3	1.3542	193.22	1.2317	.59500	94.874	1.2077	2.9017	.29029
#1	-.00060	.34920	.00263	.03748	.11663	.00001	82.385	.00054	.00338
#2	.00072	.35595	-.00041	.03683	.11565	.00006	83.805	.00056	.00339
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02351**	**.09498**	**11.442**	**3.1830**	**.01093**	**16.691**	**.17833**	**.06031**	**259.54**
Stddev	.00051	.00008	.001	.0230	.00017	.058	.00031	.00077	.33
%RSD	2.1596	.08825	.00472	.72224	1.5859	.34914	.17525	1.2700	.12653
#1	.02315	.09492	11.441	3.1667	.01081	16.732	.17856	.05977	259.77
#2	.02387	.09504	11.442	3.1993	.01106	16.650	.17811	.06086	259.31
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01727**	**.01038**	**25.08**	**-.00158**	**.00626**	**5.6145**	**.00268**	**.13598**	**.00821**
Stddev	.00003	.00298	.09	.00213	.00315	.0807	.00124	.00077	.00082
%RSD	.14754	28.719	.3769	134.68	50.300	1.4372	46.333	.56463	9.9982
#1	.01728	.00828	25.01	-.00308	.00404	5.5574	.00180	.13544	.00763
#2	.01725	.01249	25.15	-.00008	.00849	5.6716	.00355	.13652	.00879
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00363**	**.00169**	**.84154**
Stddev	.00069	.00012	.00414
%RSD	18.976	7.1540	.49148
#1	-.00412	.00160	.83862
#2	-.00315	.00177	.84447
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1360.5**	**1022.2**	**30804.**	**10473.**
Stddev	7.3	8.6	99.	27.
%RSD	.53799	.84607	.32261	.25751
#1	1365.6	1028.3	30733.	10492.
#2	1355.3	1016.1	30874.	10454.
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-70167-a-1-a Acquired: 10/30/2014 1:42:09 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00006**	**.22586**	**.00288**	**.03335**	**.02171**	**.00001**	**21.085**	**.00028**	**.00074**
Stddev	.00077	.00261	.00091	.00019	.00011	.00003	.099	.00006	.00033
%RSD	1253.1	1.1546	31.477	.57739	.50797	302.41	.46860	21.201	44.574
#1	.00060	.22771	.00224	.03321	.02163	.00003	21.015	.00032	.00097
#2	-.00048	.22402	.00352	.03348	.02178	-.00001	21.155	.00024	.00050
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00999**	**.04087**	**6.1193**	**10.578**	**.00530**	**4.2996**	**.05419**	**.57087**	**156.30**
Stddev	.00002	.00034	.0194	.013	.00027	.0090	.00002	.00073	.15
%RSD	.19600	.83628	.31685	.12096	5.1526	.20888	.04110	.12775	.09516
#1	.01001	.04112	6.1056	10.569	.00549	4.2933	.05420	.57139	156.41
#2	.00998	.04063	6.1330	10.587	.00510	4.3060	.05417	.57036	156.20
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00756**	**.00667**	**29.27**	**-.00061**	**.00367**	**9.0040**	**.00074**	**.03708**	**.00741**
Stddev	.00039	.00093	.09	.00164	.00416	.0188	.00011	.00012	.00032
%RSD	5.1066	13.877	.3011	269.63	113.26	.20864	15.133	.31697	4.2789
#1	.00784	.00601	29.21	-.00177	.00662	8.9907	.00066	.03700	.00763
#2	.00729	.00732	29.34	.00055	.00073	9.0173	.00082	.03717	.00718
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00361**	**.00134**	**.50872**
Stddev	.00190	.00027	.00240
%RSD	52.622	19.948	.47230
#1	-.00227	.00153	.50702
#2	-.00495	.00115	.51041
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1448.5**	**1057.2**	**31513.**	**10585.**
Stddev	3.9	6.6	19.	34.
%RSD	.27259	.62656	.05900	.32388
#1	1451.3	1061.9	31499.	10609.
#2	1445.7	1052.6	31526.	10561.
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-70171-k-1-a Acquired: 10/30/2014 1:45:01 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00079**	**.09017**	**.02530**	**6.4572**	**.57703**	**-.00000**	**112.52**	**.00045**	**.02812**
Stddev	.00094	.00922	.00134	.0063	.00153	.00000	.16	.00006	.00043
%RSD	118.80	10.231	5.3135	.09784	.26577	102.19	.14233	14.321	1.5186
#1	-.00146	.09669	.02435	6.4527	.57594	-.00000	112.64	.00050	.02782
#2	-.00013	.08364	.02625	6.4616	.57811	-.00001	112.41	.00041	.02842
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04184**	**.00466**	**2.4284**	**457.14**	**.10320**	**154.80**	**.15982**	**.00298**	**1285.4**
Stddev	.00071	.00013	.0038	.97	.00041	.71	.00046	.00039	2.8
%RSD	1.6971	2.8398	.15557	.21226	.39894	.45898	.28931	13.026	.21796
#1	.04134	.00457	2.4258	457.83	.10349	154.30	.15950	.00326	1283.4
#2	.04235	.00476	2.4311	456.46	.10291	155.30	.16015	.00271	1287.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.10511**	**.00583**	**27.66**	**.00296**	**.01510**	**20.868**	**.00899**	**1.7951**	**.07477**
Stddev	.00069	.00054	.02	.00078	.00185	.034	.00164	.0013	.00047
%RSD	.65806	9.2975	.0741	26.520	12.276	.16252	18.306	.06941	.63207
#1	.10560	.00545	27.68	.00240	.01641	20.892	.00782	1.7960	.07444
#2	.10462	.00622	27.65	.00351	.01379	20.844	.01015	1.7942	.07511
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00979**	**.02612**	**.03468**
Stddev	.00546	.00017	.00117
%RSD	55.841	.66798	3.3739
#1	-.01365	.02599	.03385
#2	-.00592	.02624	.03551
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1121.6**	**921.89**	**26955.**	**9779.5**
Stddev	.6	2.35	134.	9.7
%RSD	.05012	.25498	.49638	.09886
#1	1122.0	923.55	27049.	9786.3
#2	1121.2	920.23	26860.	9772.6
Check ?	None	None	None	None
Value				
Range				

Sample Name: CCV-2388838 Acquired: 10/30/2014 1:47:59 Type: QC
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.54529**	**26.498**	**.50340**	**.50968**	**.51781**	**.50911**	**25.304**	**.51009**	**.50865**	**.52222**	**.51830**	**25.533**
Stddev	.00051	.242	.00464	.00009	.00080	.00121	.139	.00085	.00169	.00108	.00070	.108
%RSD	.09352	.91348	.92183	.01845	.15392	.23826	.55031	.16610	.33141	.20697	.13492	.42110
#1	.54565	26.327	.50668	.50962	.51725	.50825	25.205	.51069	.50984	.52146	.51780	25.456
#2	.54493	26.669	.50012	.50975	.51837	.50997	25.402	.50949	.50745	.52299	.51879	25.609
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value												
Range												

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**25.976**	**.51419**	**26.539**	**.53259**	**.51971**	**25.827**	**.51126**	**.51216**	**25.37**	**.51061**	**.51153**	F **28.236**
Stddev	.005	.00322	.029	.00075	.00073	.061	.00175	.00314	.08	.00148	.00058	.514
%RSD	.01809	.62603	.10846	.14154	.14034	.23596	.34278	.61275	.3172	.29058	.11268	1.8213
#1	25.980	.51191	26.519	.53205	.52022	25.783	.51250	.51438	25.43	.50956	.51112	28.600
#2	25.973	.51646	26.560	.53312	.51919	25.870	.51002	.50994	25.31	.51166	.51194	27.872
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value												25.000
Range												10.000%

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.51409**	**.52051**	**.53243**	**.50336**	**.51826**	**.53761**
Stddev	.00344	.00265	.00098	.00060	.00192	.00247
%RSD	.66975	.50969	.18361	.11959	.37002	.45957
#1	.51653	.51863	.53312	.50293	.51690	.53936
#2	.51166	.52239	.53174	.50378	.51961	.53586
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1515.7**	**1122.7**	**32664.**	**10584.**
Stddev	4.9	1.9	43.	56.
%RSD	.32021	.17336	.13144	.52632
#1	1512.3	1121.3	32695.	10624.
#2	1519.2	1124.0	32634.	10545.

Sample Name: CCB-2388837 Acquired: 10/30/2014 1:50:44 Type: QC
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00049**	**-.00161**	**-.00020**	**.00299**	**.00049**	**.00005**	**.00112**	**-.00031**	**.00005**	**.00081**	**.00012**	**.00058**
Stddev	.00051	.00366	.00254	.00032	.00065	.00001	.00100	.00009	.00006	.00054	.00039	.00004
%RSD	104.39	226.84	1260.9	10.777	132.11	16.478	89.509	28.393	123.18	65.935	317.81	6.4348
#1	.00013	-.00420	.00160	.00321	.00003	.00005	.00182	-.00038	.00001	.00043	-.00015	.00055
#2	.00085	.00098	-.00200	.00276	.00095	.00006	.00041	-.00025	.00008	.00119	.00040	.00060
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit												
Low Limit												

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.07373**	**.00070**	**.06742**	**.00024**	**.00029**	**.04625**	**-.00018**	**-.00008**	**-.0067**	**-.00153**	**-.00021**	**.07725**
Stddev	.01425	.00003	.08670	.00065	.00005	.00114	.00009	.00073	.0038	.00095	.00210	.01984
%RSD	19.324	4.8065	128.59	276.01	18.610	2.4644	50.823	923.48	56.64	61.789	988.91	25.686
#1	.08381	.00072	.00612	-.00022	.00025	.04544	-.00012	.00044	-.0040	-.00086	.00127	.09127
#2	.06366	.00067	.12873	.00070	.00033	.04705	-.00025	-.00060	-.0094	-.00220	-.00169	.06322
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit												
Low Limit												

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00097**	**.00006**	**.00065**	**-.00079**	**.00032**	**-.00060**
Stddev	.00002	.00001	.00043	.00210	.00028	.00155
%RSD	1.9285	19.955	66.580	264.44	86.969	257.91
#1	-.00098	.00007	.00034	-.00228	.00012	-.00169
#2	-.00096	.00005	.00096	.00069	.00051	.00049
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1704.4**	**1155.1**	**34651.**	**10682.**
Stddev	7.4	5.1	156.	48.
%RSD	.43376	.44573	.45021	.44989
#1	1699.2	1151.4	34762.	10716.
#2	1709.6	1158.7	34541.	10648.

Sample Name: CCVL-2388843 Acquired: 10/30/2014 1:53:37 Type: QC
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00640**	**.19638**	**.01265**	**.02203**	**.00208**	**.00209**	**.48480**	**.00181**	**.00389**	**.00504**	**.00866**	**.04825**
Stddev	.00002	.00572	.00155	.00036	.00003	.00002	.00549	.00005	.00013	.00038	.00013	.00067
%RSD	.29860	2.9109	12.238	1.6502	1.2628	.77034	1.1329	2.7117	3.4704	7.4932	1.5325	1.3920
#1	.00639	.19234	.01155	.02228	.00210	.00210	.48091	.00177	.00398	.00477	.00857	.04777
#2	.00641	.20042	.01374	.02177	.00207	.00208	.48868	.00184	.00379	.00530	.00875	.04872
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value												
Range												

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.52340**	**.02948**	**.20131**	**.00282**	**.01008**	**1.0017**	**.00935**	**.00990**	**.1885**	**.01874**	**.02929**	**.51784**
Stddev	.00288	.00001	.01243	.00001	.00014	.0101	.00067	.00080	.0034	.00001	.00016	.00772
%RSD	.55065	.02324	6.1741	.41628	1.4278	1.0111	7.1961	8.1279	1.821	.06412	.55829	1.4902
#1	.52544	.02948	.19252	.00283	.00998	.99457	.00982	.00933	.1861	.01875	.02941	.51238
#2	.52136	.02949	.21010	.00281	.01019	1.0089	.00887	.01047	.1910	.01873	.02917	.52330
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value												
Range												

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00911**	**.00491**	**.00560**	**.02137**	**.00484**	**.00968**
Stddev	.00076	.00005	.00029	.00167	.00020	.00156
%RSD	8.3464	.99447	5.1073	7.8220	4.1705	16.066
#1	.00965	.00488	.00581	.02019	.00499	.00858
#2	.00857	.00495	.00540	.02256	.00470	.01078
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1695.1**	**1157.3**	**34878.**	**10808.**
Stddev	2.4	.4	136.	69.
%RSD	.14366	.03356	.38940	.63576
#1	1693.4	1157.6	34782.	10857.
#2	1696.9	1157.0	34974.	10760.

Sample Name: 480-70165-a-1-a Acquired: 10/30/2014 1:56:29 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00534**	**144.41**	**5.6275**	F **117.84**	**5.5246**	**.00159**	**781.29**	**.02419**	**2.3298**
Stddev	.00020	.03	.0312	.82	.0095	.00003	14.41	.00017	.0093
%RSD	3.6967	.01842	.55509	.69595	.17228	2.0072	1.8450	.68393	.39813
#1	.00520	144.39	5.6496	118.42	5.5313	.00161	791.48	.02407	2.3232
#2	.00548	144.43	5.6054	117.26	5.5179	.00157	771.09	.02431	2.3364
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				14.000					
Low Limit				-.02000					

Elem	Cr2677	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183
Line	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.2090**	**10.092**	**358.74**	**380.88**	**2.2860**	**68.300**	**5.5472**	F **7.0861**	**1923.0**
Stddev	.0062	.017	2.70	.42	.0158	.035	.0056	.0286	1.7
%RSD	.51294	.16355	.75227	.10926	.69156	.05192	.10179	.40347	.08663
#1	1.2046	10.080	360.65	381.18	2.2749	68.275	5.5512	7.1063	1921.8
#2	1.2134	10.103	356.83	380.59	2.2972	68.325	5.5432	7.0659	1924.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit								4.6000	
Low Limit								-.01000	

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.3634**	**5.1232**	**694.6**	**.12353**	**.88712**	**83.304**	**.61997**	**5.6517**	**19.996**
Stddev	.0186	.0381	1.8	.00555	.00895	.120	.00451	.0345	.027
%RSD	.78692	.74422	.2642	4.4948	1.0094	.14420	.72728	.61019	.13595
#1	2.3502	5.0963	695.9	.11960	.89345	83.389	.61678	5.6761	19.977
#2	2.3765	5.1502	693.3	.12745	.88079	83.219	.62315	5.6273	20.015
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	F **-.07661**	**1.6161**	F **51.787**
Stddev	.01313	.0067	.250
%RSD	17.134	.41364	.48326
#1	-.06733	1.6114	51.610
#2	-.08589	1.6208	51.964
Check ?	Chk Fail	Chk Pass	Chk Fail
High Limit	36.000		18.000
Low Limit	-.02000		-.01000

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**951.48**	**873.28**	**26780.**	**10268.**
Stddev	.13	6.82	34.	30.
%RSD	.01384	.78142	.12587	.29258
#1	951.38	868.45	26756.	10246.
#2	951.57	878.10	26804.	10289.
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-70165-a-1-a@5 Acquired: 10/30/2014 1:59:34 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00058**	**28.474**	**.97465**	F **25.240**	**1.2189**	**.00051**	**176.36**	**.00451**	**.46728**
Stddev	.00029	.018	.00552	.027	.0030	.00004	.92	.00012	.00134
%RSD	49.822	.06496	.56596	.10507	.24868	8.1216	.52019	2.5636	.28736
#1	.00078	28.461	.97075	25.259	1.2168	.00048	177.01	.00443	.46823
#2	.00038	28.487	.97855	25.221	1.2210	.00054	175.71	.00459	.46633
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				14.000					
Low Limit				-.02000					

Elem	Cr2677	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183
Line	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.27628**	**1.8117**	**79.053**	**75.556**	**.44363**	**17.651**	**1.2871**	**1.5712**	**382.83**
Stddev	.00072	.0050	.339	.344	.00326	.084	.0066	.0004	1.25
%RSD	.26210	.27307	.42825	.45564	.73510	.47770	.51120	.02259	.32765
#1	.27680	1.8151	79.293	75.313	.44132	17.710	1.2917	1.5714	381.94
#2	.27577	1.8082	78.814	75.799	.44593	17.591	1.2824	1.5709	383.71
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.48281**	**1.0990**	**156.7**	**.02203**	**.14370**	**16.911**	**.12533**	**1.1743**	**4.3245**
Stddev	.00193	.0004	.3	.00163	.01583	.049	.00065	.0040	.0195
%RSD	.40062	.03391	.2226	7.3819	11.015	.28851	.52051	.34028	.45167
#1	.48417	1.0988	157.0	.02088	.13251	16.876	.12579	1.1715	4.3383
#2	.48144	1.0993	156.5	.02318	.15489	16.945	.12487	1.1771	4.3107
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.01836**	**.35271**	**13.503**
Stddev	.00979	.00247	.118
%RSD	53.339	.70077	.87340
#1	-.01143	.35445	13.587
#2	-.02528	.35096	13.420
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1263.6**	**990.21**	**29563.**	**10373.**
Stddev	.9	1.10	84.	53.
%RSD	.07074	.11143	.28325	.51103
#1	1263.0	990.99	29504.	10335.
#2	1264.2	989.43	29623.	10410.
Check ?	None	None	None	None
Value				
Range				

Sample Name: BLANK Acquired: 10/30/2014 2:02:31 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00124**	**.00204**	**-.00249**	**.09610**	**.00013**	**.00006**	**.01783**	**-.00021**	**.00005**
Stddev	.00077	.01118	.00256	.01120	.00002	.00001	.00926	.00002	.00007
%RSD	62.424	548.66	102.66	11.656	13.361	11.955	51.938	11.737	153.75
#1	.00069	-.00587	-.00068	.10402	.00012	.00006	.01128	-.00019	.00010
#2	.00178	.00994	-.00430	.08818	.00014	.00007	.02438	-.00023	-.00000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00030**	**-.00025**	**.00559**	**.16052**	**.00082**	**-.00308**	**.00004**	**.00010**	**.12572**
Stddev	.00012	.00009	.00501	.00910	.00026	.00320	.00005	.00032	.02426
%RSD	39.108	34.688	89.596	5.6686	32.020	104.01	107.68	332.34	19.292
#1	.00022	-.00019	.00205	.15409	.00063	-.00081	.00007	-.00013	.10857
#2	.00038	-.00031	.00913	.16696	.00100	-.00535	.00001	.00032	.14287
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00026**	**-.00006**	**.0278**	**-.00067**	**.00794**	**.03955**	**.00012**	**.00013**	**.00059**
Stddev	.00016	.00050	.0184	.00255	.00592	.01090	.00024	.00012	.00041
%RSD	60.536	802.28	66.11	382.71	74.580	27.551	198.96	93.592	69.730
#1	.00015	.00029	.0148	-.00247	.00375	.04726	-.00005	.00004	.00088
#2	.00037	-.00041	.0408	.00114	.01212	.03185	.00029	.00021	.00030
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00607**	**.00024**	**.00147**
Stddev	.00412	.00003	.00189
%RSD	67.937	11.148	128.58
#1	-.00315	.00025	.00281
#2	-.00898	.00022	.00013
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1690.9**	**1148.8**	**34269.**	**10542.**
Stddev	1.2	1.8	156.	33.
%RSD	.06935	.15508	.45515	.31283
#1	1690.1	1150.0	34159.	10519.
#2	1691.8	1147.5	34379.	10565.
Check ?	None	None	None	None
Value				
Range				

Sample Name: mb 480-210420/1-a Acquired: 10/30/2014 2:05:24 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00063**	**.00998**	**-.00155**	F **.04275**	**.00013**	**.00003**	**.03318**	**-.00021**	**.00020**
Stddev	.00020	.00083	.00073	.00278	.00004	.00002	.00294	.00015	.00001
%RSD	32.755	8.2761	47.289	6.4928	30.042	49.395	8.8727	71.710	5.2242
#1	.00048	.01056	-.00103	.04472	.00010	.00004	.03526	-.00010	.00019
#2	.00077	.00939	-.00207	.04079	.00016	.00002	.03109	-.00032	.00021
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				.02000					
Low Limit				-.00800					

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00054**	**-.00015**	**.00639**	**.05673**	**.00061**	**-.00141**	**-.00014**	**-.00012**	**.08389**
Stddev	.00004	.00003	.00064	.00977	.00013	.00330	.00003	.00006	.00976
%RSD	7.7192	22.132	9.9420	17.219	21.688	234.01	22.988	48.221	11.639
#1	.00051	-.00013	.00684	.04982	.00052	-.00375	-.00011	-.00017	.09080
#2	.00057	-.00018	.00594	.06364	.00071	.00092	-.00016	-.00008	.07699
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00033**	**.00100**	F **.0062**	**.00017**	**.00255**	**.00168**	**-.00031**	**.00019**	**.00107**
Stddev	.00046	.00000	.0077	.00126	.00097	.00002	.00021	.00001	.00015
%RSD	140.37	.21107	125.7	754.78	38.230	1.3807	68.156	3.0600	13.788
#1	.00000	.00099	.0116	.00106	.00186	.00170	-.00045	.00019	.00118
#2	.00066	.00100	.0007	-.00073	.00324	.00166	-.00016	.00020	.00097
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			.0030						
Low Limit			-.0030						

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00177**	**.00016**	**.00786**
Stddev	.00354	.00021	.00120
%RSD	199.59	133.24	15.225
#1	-.00428	.00031	.00702
#2	.00073	.00001	.00871
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1705.9**	**1152.1**	**35098.**	**10952.**
Stddev	4.0	5.4	6.	1.
%RSD	.23408	.46698	.01809	.00555
#1	1703.0	1148.3	35094.	10951.
#2	1708.7	1155.9	35103.	10952.
Check ?	None	None	None	None
Value				
Range				

Sample Name: lcs 480-210420/2-a Acquired: 10/30/2014 2:08:16 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05176**	**10.016**	**.19378**	F **.23306**	**.21077**	**.19469**	**9.6601**	**.19541**	**.19661**
Stddev	.00002	.074	.00465	.00204	.00101	.00031	.0195	.00003	.00007
%RSD	.03080	.73898	2.4016	.87548	.47773	.15716	.20162	.01418	.03358
#1	.05177	10.068	.19707	.23450	.21148	.19447	9.6739	.19539	.19656
#2	.05175	9.9636	.19049	.23162	.21006	.19490	9.6464	.19543	.19666
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				.23000					
Low Limit				.17000					

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.19519**	**.19831**	**9.8089**	**9.8733**	**.19782**	**10.166**	**.20598**	**.20577**	**9.9009**
Stddev	.00017	.00070	.0153	.0144	.00115	.006	.00085	.00071	.0044
%RSD	.08756	.35227	.15617	.14620	.57990	.06033	.41471	.34461	.04429
#1	.19507	.19881	9.7981	9.8631	.19863	10.161	.20658	.20627	9.9040
#2	.19531	.19782	9.8198	9.8835	.19701	10.170	.20538	.20527	9.8978
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.19530**	**.19535**	**10.07**	**.20091**	**.20008**	**10.128**	**.19069**	**.19905**	**.20258**
Stddev	.00067	.00150	.00	.00071	.00285	.072	.00118	.00049	.00162
%RSD	.34068	.76612	.0128	.35190	1.4232	.71233	.61650	.24370	.80120
#1	.19483	.19430	10.07	.20141	.19807	10.179	.18986	.19871	.20373
#2	.19577	.19641	10.07	.20041	.20210	10.077	.19152	.19940	.20143
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.20484**	**.20097**	**.21010**
Stddev	.00275	.00037	.00594
%RSD	1.3438	.18561	2.8289
#1	.20289	.20124	.21430
#2	.20678	.20071	.20590
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1587.2**	**1129.5**	**33833.**	**10805.**
Stddev	1.2	.7	165.	21.
%RSD	.07290	.06010	.48860	.19146
#1	1588.0	1129.0	33716.	10790.
#2	1586.4	1130.0	33950.	10819.
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-70154-b-1-a Acquired: 10/30/2014 2:10:59 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00089**	**.02897**	**.00234**	**.19681**	**.04099**	**.00005**	**65.496**	**.00005**	**.00013**
Stddev	.00057	.00446	.00087	.00101	.00016	.00004	.927	.00003	.00005
%RSD	63.858	15.383	37.418	.51239	.38893	73.641	1.4158	46.271	37.814
#1	-.00129	.02582	.00172	.19752	.04111	.00008	64.841	.00007	.00016
#2	-.00049	.03212	.00295	.19609	.04088	.00002	66.152	.00004	.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00165**	**.00084**	**2.6228**	**.42087**	**.00232**	**16.320**	**.90780**	**.00254**	**38.925**
Stddev	.00063	.00009	.0081	.00163	.00030	.080	.00101	.00034	.286
%RSD	38.147	10.734	.30852	.38719	12.878	.49230	.11126	13.342	.73388
#1	.00121	.00090	2.6170	.42202	.00211	16.377	.90852	.00230	38.723
#2	.00210	.00077	2.6285	.41971	.00254	16.263	.90709	.00278	39.127
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00169**	**.00488**	**1.237**	**-.00319**	**.00409**	**3.4955**	**-.00068**	**.13501**	**.00137**
Stddev	.00077	.00119	.011	.00090	.00076	.0368	.00019	.00050	.00033
%RSD	45.299	24.303	.8847	28.320	18.522	1.0516	27.788	.37318	23.883
#1	.00115	.00572	1.244	-.00255	.00463	3.4695	-.00054	.13466	.00160
#2	.00223	.00404	1.229	-.00383	.00356	3.5215	-.00081	.13537	.00114
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.00209**	**.00048**	**.00570**
Stddev	.00265	.00047	.00052
%RSD	127.06	96.994	9.1154
#1	.00396	.00081	.00533
#2	.00021	.00015	.00606
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1503.4**	**1081.5**	**32554.**	**10649.**
Stddev	1.8	2.5	14.	34.
%RSD	.12004	.22951	.04331	.31788
#1	1502.1	1079.8	32564.	10673.
#2	1504.7	1083.3	32544.	10625.
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-70154-b-1-aSD@5 Acquired: 10/30/2014 2:13:47 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00020**	**.01346**	**.00148**	**.05101**	**.00861**	**.00002**	**13.018**	**-.00015**	**-.00009**
Stddev	.00068	.00077	.00295	.00105	.00002	.00004	.029	.00008	.00006
%RSD	340.38	5.7195	199.47	2.0597	.21038	150.14	.22051	52.653	69.282
#1	-.00028	.01292	-.00061	.05176	.00862	-.00000	13.038	-.00010	-.00005
#2	.00069	.01401	.00357	.05027	.00859	.00005	12.997	-.00021	-.00013
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00021**	**.00054**	**.54499**	**.09908**	**.00083**	**3.2218**	**.18775**	**.00067**	**7.7033**
Stddev	.00006	.00021	.00375	.00559	.00031	.0012	.00007	.00089	.0328
%RSD	28.936	38.422	.68855	5.6413	36.937	.03640	.03695	132.73	.42589
#1	.00025	.00039	.54764	.09513	.00105	3.2226	.18780	.00131	7.7265
#2	.00017	.00069	.54233	.10303	.00062	3.2209	.18771	.00004	7.6801
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00000**	**.00197**	**.2323**	**-.00183**	**-.00290**	**.69000**	**-.00056**	**.02698**	**.00124**
Stddev	.00008	.00244	.0042	.00102	.00301	.01737	.00050	.00004	.00002
%RSD	3088.2	124.02	1.828	55.911	103.97	2.5174	88.960	.13677	1.9094
#1	-.00006	.00369	.2353	-.00255	-.00077	.70229	-.00091	.02695	.00122
#2	.00006	.00024	.2293	-.00111	-.00503	.67772	-.00021	.02701	.00125
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00022**	**-.00008**	**.00384**
Stddev	.00113	.00001	.00095
%RSD	511.76	17.730	24.872
#1	-.00102	-.00007	.00316
#2	.00058	-.00009	.00451
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1636.9**	**1136.0**	**34125.**	**10692.**
Stddev	.7	1.7	57.	46.
%RSD	.04552	.14723	.16726	.43101
#1	1636.4	1134.8	34085.	10660.
#2	1637.4	1137.2	34166.	10725.
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-70154-b-1-a PDS Acquired: 10/30/2014 2:16:37 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05359**	**10.082**	**.21514**	**.38336**	**.24459**	**.20607**	**72.453**	**.20427**	**.20373**
Stddev	.00011	.022	.00508	.00029	.00042	.00116	.488	.00028	.00017
%RSD	.19912	.21464	2.3615	.07470	.17372	.56297	.67408	.13885	.08280
#1	.05366	10.067	.21154	.38315	.24429	.20525	72.108	.20407	.20385
#2	.05351	10.097	.21873	.38356	.24489	.20690	72.798	.20447	.20361
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.20308**	**.20914**	**12.681**	**10.321**	**.20057**	**26.490**	**1.0879**	**.20701**	**47.244**
Stddev	.00031	.00014	.057	.012	.00113	.020	.0019	.00066	.163
%RSD	.15432	.06507	.44602	.11406	.56329	.07604	.17613	.31957	.34590
#1	.20331	.20923	12.641	10.330	.20136	26.504	1.0893	.20655	47.360
#2	.20286	.20904	12.721	10.313	.19977	26.476	1.0866	.20748	47.129
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.20631**	**.21126**	**11.44**	**.20371**	**.20170**	**13.502**	**.19890**	**.32702**	**.20558**
Stddev	.00221	.00104	.04	.00299	.00115	.020	.00080	.00030	.00128
%RSD	1.0708	.49252	.3753	1.4654	.57076	.14734	.40138	.09087	.62026
#1	.20787	.21200	11.41	.20159	.20088	13.488	.19834	.32723	.20648
#2	.20475	.21052	11.47	.20582	.20251	13.516	.19947	.32681	.20468
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.20681**	**.20967**	**.21307**
Stddev	.00375	.00003	.00186
%RSD	1.8115	.01347	.87485
#1	.20946	.20969	.21176
#2	.20416	.20965	.21439
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1478.3**	**1105.4**	**32684.**	**10707.**
Stddev	4.2	5.9	5.	35.
%RSD	.28314	.53740	.01597	.32896
#1	1481.3	1109.6	32688.	10732.
#2	1475.4	1101.2	32680.	10682.
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-70154-b-1-b ms Acquired: 10/30/2014 2:19:19 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05207**	**10.149**	**.19958**	**.38860**	**.24629**	**.19956**	**73.375**	**.19976**	**.20101**
Stddev	.00040	.009	.00263	.00131	.00046	.00007	.045	.00133	.00139
%RSD	.76462	.09222	1.3172	.33619	.18714	.03739	.06161	.66622	.69071
#1	.05235	10.142	.19772	.38953	.24662	.19951	73.343	.20070	.20199
#2	.05179	10.155	.20144	.38768	.24597	.19962	73.407	.19882	.20003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.20053**	**.20559**	**12.252**	**10.454**	**.20168**	**26.338**	**1.1015**	**.20816**	**48.419**
Stddev	.00119	.00023	.010	.031	.00018	.022	.0013	.00138	.133
%RSD	.59347	.11390	.07766	.29640	.08920	.08336	.11922	.66213	.27474
#1	.19969	.20542	12.259	10.476	.20181	26.354	1.1006	.20913	48.325
#2	.20137	.20576	12.246	10.432	.20156	26.322	1.1024	.20718	48.513
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.20227**	**.20341**	**11.66**	**.20773**	**.19716**	**13.695**	**.19947**	**.33227**	**.20366**
Stddev	.00147	.00114	.03	.00067	.00068	.009	.00071	.00109	.00022
%RSD	.72730	.56060	.2362	.32118	.34448	.06763	.35590	.32821	.10859
#1	.20331	.20260	11.68	.20725	.19764	13.689	.19997	.33150	.20382
#2	.20123	.20422	11.64	.20820	.19667	13.702	.19897	.33304	.20350
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.20390**	**.20721**	**.20739**
Stddev	.00261	.00000	.00144
%RSD	1.2778	.00187	.69650
#1	.20574	.20720	.20841
#2	.20206	.20721	.20637
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1465.4**	**1091.2**	**32380.**	**10735.**
Stddev	1.6	2.4	42.	2.
%RSD	.10802	.21879	.12939	.01738
#1	1464.3	1089.5	32409.	10734.
#2	1466.6	1092.9	32350.	10737.
Check ?	None	None	None	None
Value				
Range				

Sample Name: CCV-2388838 Acquired: 10/30/2014 2:22:01 Type: QC
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.53327**	**26.684**	**.51747**	**.51927**	**.51072**	**.50565**	**25.550**	**.51569**	**.51394**	**.52619**	**.52061**	**25.385**	**25.686**	**.51117**
Stddev	.00191	.277	.00053	.00100	.00500	.00578	.255	.00243	.00423	.00171	.00031	.339	.250	.00472
%RSD	.35765	1.0373	.10262	.19291	.97814	1.1437	.99800	.47143	.82347	.32550	.05920	1.3364	.97232	.92416
#1	.53462	26.488	.51710	.51998	.50719	.50156	25.369	.51741	.51694	.52740	.52040	25.145	25.509	.50783
#2	.53192	26.879	.51785	.51856	.51425	.50974	25.730	.51397	.51095	.52498	.52083	25.625	25.862	.51451
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value														
Range														

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**26.183**	**.52433**	**.52468**	**25.500**	**.51771**	**.51980**	**25.80**	**.51873**	**.51402**	**26.075**	**.52081**	**.51792**	**.52830**	**.50876**
Stddev	.063	.00052	.00254	.227	.00160	.00162	.02	.00140	.02069	.251	.00403	.00570	.00064	.00227
%RSD	.24130	.09853	.48471	.89031	.30879	.31241	.0781	.26918	4.0258	.96158	.77340	1.1008	.12147	.44539
#1	26.228	.52469	.52648	25.339	.51884	.52095	25.81	.51774	.52865	25.898	.52365	.51389	.52876	.51036
#2	26.139	.52396	.52288	25.661	.51658	.51865	25.78	.51971	.49939	26.252	.51796	.52195	.52785	.50716
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value														
Range														

Elem	V_2924	Zn2062
Units	ppm	ppm
Avg	**.52345**	**.53476**
Stddev	.00025	.00238
%RSD	.04815	.44589
#1	.52327	.53308
#2	.52363	.53645
Check ?	Chk Pass	Chk Pass
Value		
Range		

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1506.6**	**1114.0**	**32919.**	**10661.**
Stddev	4.1	3.2	113.	83.
%RSD	.27389	.28849	.34409	.77521
#1	1503.7	1111.7	32839.	10719.
#2	1509.5	1116.2	32999.	10603.

Sample Name: CCB-2388837 Acquired: 10/30/2014 2:24:46 Type: QC
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00046**	**.01165**	**.00219**	**.00998**	**.00003**	**.00012**	**.01008**	**-.00007**	**.00010**	**-.00023**	**-.00013**	**.00493**
Stddev	.00023	.00543	.00056	.00035	.00000	.00001	.00010	.00005	.00007	.00043	.00009	.00173
%RSD	50.421	46.568	25.473	3.4891	16.236	9.5866	.97642	70.633	64.717	191.53	65.579	35.140
#1	.00063	.01549	.00180	.01023	.00003	.00012	.01015	-.00004	.00006	.00008	-.00019	.00616
#2	.00030	.00782	.00259	.00974	.00002	.00013	.01001	-.00011	.00015	-.00053	-.00007	.00371
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit												
Low Limit												

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01418**	**.00023**	**-.00366**	**-.00030**	**-.00015**	**.02813**	**-.00009**	**-.00070**	**-.0008**	**.00091**	**-.00006**	**.00998**
Stddev	.00296	.00023	.00186	.00002	.00013	.00080	.00046	.00032	.0032	.00076	.00070	.00367
%RSD	20.885	97.560	50.928	7.5310	89.240	2.8489	486.52	46.159	398.2	83.087	1244.8	36.755
#1	.01628	.00007	-.00234	-.00028	-.00025	.02756	-.00042	-.00092	-.0030	.00145	.00044	.01258
#2	.01209	.00039	-.00497	-.00031	-.00006	.02869	.00023	-.00047	.0014	.00038	-.00055	.00739
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit												
Low Limit												

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00021**	**.00015**	**.00059**	**.00139**	**.00010**	**.00082**
Stddev	.00009	.00004	.00027	.00100	.00010	.00095
%RSD	45.077	28.652	45.863	72.141	95.989	115.62
#1	-.00014	.00018	.00040	.00210	.00003	.00015
#2	-.00028	.00012	.00078	.00068	.00017	.00150
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1718.2**	**1163.1**	**35201.**	**10870.**
Stddev	.4	4.5	150.	7.
%RSD	.02594	.38984	.42740	.06673
#1	1717.9	1159.9	35094.	10875.
#2	1718.5	1166.3	35307.	10865.

Sample Name: CCVL-2388843 Acquired: 10/30/2014 2:27:40 Type: QC
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00642**	**.20336**	**.01572**	W **.02815**	**.00219**	**.00203**	**.49052**	**.00177**	**.00391**	**.00480**	**.00889**
Stddev	.00027	.00505	.00062	.00006	.00003	.00003	.00165	.00018	.00007	.00018	.00016
%RSD	4.2417	2.4851	3.9231	.20325	1.1866	1.4359	.33650	10.372	1.7940	3.6610	1.7758
#1	.00623	.19978	.01616	.02819	.00221	.00201	.48935	.00164	.00386	.00468	.00900
#2	.00661	.20693	.01529	.02811	.00218	.00205	.49169	.00190	.00395	.00493	.00877
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value				.02000							
Range				30.000%							

Elem	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04894**	**.47069**	**.02927**	**.21255**	**.00294**	**.00989**	**.97857**	**.00904**	**.00940**	**.1938**	**.01869**
Stddev	.00269	.00615	.00024	.00476	.00005	.00019	.00443	.00006	.00212	.0000	.00012
%RSD	5.4972	1.3075	.81958	2.2373	1.6405	1.9495	.45228	.68134	22.530	.0099	.66099
#1	.05084	.47504	.02944	.20919	.00297	.01003	.97544	.00909	.00791	.1938	.01860
#2	.04704	.46634	.02910	.21591	.00290	.00975	.98170	.00900	.01090	.1938	.01878
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value											
Range											

Elem	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02190**	**.49981**	**.00846**	**.00491**	**.00503**	**.01882**	**.00507**	**.01161**
Stddev	.00063	.00116	.00000	.00008	.00014	.00255	.00014	.00089
%RSD	2.8708	.23121	.04836	1.6213	2.7017	13.543	2.6794	7.6357
#1	.02234	.49899	.00846	.00485	.00494	.01702	.00497	.01098
#2	.02146	.50063	.00845	.00496	.00513	.02062	.00516	.01223
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1699.6**	**1161.7**	**34853.**	**10814.**
Stddev	1.7	6.2	68.	24.
%RSD	.10031	.53194	.19652	.22191
#1	1700.8	1166.0	34901.	10797.
#2	1698.4	1157.3	34805.	10831.

Sample Name: 480-70154-b-1-c msd Acquired: 10/30/2014 2:30:31 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05283**	**10.186**	**.20171**	**.37572**	**.24549**	**.19893**	**73.484**	**.19838**	**.20058**
Stddev	.00018	.018	.00204	.00054	.00015	.00042	.344	.00095	.00083
%RSD	.33649	.17676	1.0118	.14374	.06227	.21157	.46763	.47790	.41315
#1	.05296	10.173	.20315	.37610	.24560	.19923	73.241	.19905	.20117
#2	.05271	10.198	.20027	.37534	.24539	.19864	73.727	.19771	.19999
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.20039**	**.20420**	**12.210**	**10.386**	**.20186**	**26.100**	**1.0832**	**.20635**	**48.244**
Stddev	.00300	.00017	.016	.021	.00055	.052	.0052	.00161	.125
%RSD	1.4991	.08143	.12888	.20054	.27225	.19774	.47497	.78161	.25831
#1	.19827	.20409	12.221	10.371	.20225	26.063	1.0796	.20749	48.332
#2	.20252	.20432	12.198	10.401	.20147	26.136	1.0869	.20521	48.156
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.20145**	**.19985**	**11.55**	**.20515**	**.20068**	**13.750**	**.19725**	**.33043**	**.20408**
Stddev	.00058	.00167	.03	.00708	.00313	.002	.00061	.00014	.00020
%RSD	.28805	.83594	.2986	3.4487	1.5574	.01317	.30832	.04281	.09662
#1	.20186	.20103	11.58	.21016	.20289	13.751	.19768	.33033	.20394
#2	.20104	.19867	11.53	.20015	.19847	13.749	.19682	.33053	.20422
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.21097**	**.20624**	**.20771**
Stddev	.00463	.00076	.00272
%RSD	2.1952	.36716	1.3092
#1	.21424	.20571	.20578
#2	.20770	.20678	.20963
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1479.8**	**1106.6**	**32607.**	**10720.**
Stddev	3.4	2.5	83.	38.
%RSD	.23032	.22583	.25311	.35311
#1	1477.4	1104.8	32665.	10746.
#2	1482.2	1108.3	32548.	10693.
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-70154-b-2-a Acquired: 10/30/2014 2:33:13 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00033**	**.05494**	**.00211**	**.17259**	**.03921**	**.00004**	**63.500**	**-.00009**	**.00022**
Stddev	.00046	.00195	.00058	.00069	.00013	.00002	.439	.00006	.00028
%RSD	138.46	3.5406	27.421	.39926	.33495	46.109	.69125	67.758	129.89
#1	-.00001	.05356	.00170	.17307	.03930	.00002	63.810	-.00013	.00042
#2	-.00066	.05631	.00252	.17210	.03912	.00005	63.189	-.00005	.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00175**	**.00114**	**2.5260**	**.35426**	**.00239**	**15.748**	**.87646**	**.00276**	**37.630**
Stddev	.00084	.00044	.0030	.01411	.00013	.025	.00310	.00000	.093
%RSD	47.881	38.812	.12047	3.9835	5.5310	.15875	.35383	.09259	.24701
#1	.00116	.00083	2.5239	.34429	.00229	15.766	.87865	.00276	37.696
#2	.00234	.00145	2.5282	.36424	.00248	15.731	.87427	.00276	37.564
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00118**	**.00227**	**1.185**	**.00068**	**.00013**	**3.3598**	**-.00039**	**.12924**	**.00127**
Stddev	.00106	.00422	.007	.00231	.00049	.0259	.00017	.00010	.00018
%RSD	89.877	186.20	.6244	338.61	386.08	.76968	42.816	.07927	14.177
#1	.00193	-.00072	1.179	.00231	-.00022	3.3780	-.00027	.12916	.00114
#2	.00043	.00525	1.190	-.00095	.00047	3.3415	-.00051	.12931	.00139
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.00184**	**.00052**	**.00492**
Stddev	.00063	.00005	.00140
%RSD	34.064	10.120	28.360
#1	.00140	.00048	.00591
#2	.00229	.00056	.00393
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1520.8**	**1099.0**	**32805.**	**10665.**
Stddev	1.6	1.5	38.	20.
%RSD	.10606	.13842	.11509	.18516
#1	1519.6	1097.9	32778.	10652.
#2	1521.9	1100.1	32832.	10679.
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-70154-b-3-a Acquired: 10/30/2014 2:36:02 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00037**	**.13623**	**.03716**	**.17212**	**.06420**	**.00007**	**102.85**	**-.00004**	**.00210**
Stddev	.00042	.00057	.00198	.00091	.00016	.00005	.34	.00022	.00004
%RSD	115.41	.41912	5.3192	.53086	.24563	65.814	.33123	594.69	1.8697
#1	-.00007	.13663	.03856	.17276	.06432	.00011	103.09	.00012	.00207
#2	-.00067	.13583	.03577	.17147	.06409	.00004	102.61	-.00019	.00213
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00381**	**.00096**	**21.202**	**1.7227**	**.00258**	**22.684**	**1.9580**	**.00573**	**71.855**
Stddev	.00104	.00002	.096	.0007	.00016	.010	.0014	.00013	.048
%RSD	27.438	2.3174	.45402	.03910	6.2386	.04346	.07232	2.3503	.06709
#1	.00307	.00094	21.270	1.7222	.00247	22.677	1.9570	.00563	71.821
#2	.00455	.00098	21.134	1.7232	.00270	22.691	1.9590	.00582	71.889
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00233**	**.00319**	**2.199**	**-.00258**	**.00215**	**8.5627**	**-.00016**	**.18813**	**.00492**
Stddev	.00023	.00050	.003	.00194	.00138	.0082	.00022	.00020	.00040
%RSD	9.9082	15.633	.1228	75.306	64.104	.09525	136.72	.10833	8.0876
#1	.00217	.00354	2.201	-.00395	.00312	8.5570	-.00001	.18828	.00520
#2	.00249	.00284	2.197	-.00121	.00118	8.5685	-.00031	.18799	.00464
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00187**	**.00404**	**.00964**
Stddev	.00306	.00036	.00093
%RSD	163.94	9.0255	9.6679
#1	-.00403	.00430	.01030
#2	.00030	.00379	.00898
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1456.4**	**1075.5**	**32091.**	**10569.**
Stddev	1.9	1.0	31.	49.
%RSD	.13198	.09475	.09581	.46017
#1	1455.1	1074.7	32113.	10534.
#2	1457.8	1076.2	32070.	10603.
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-70154-b-4-a Acquired: 10/30/2014 2:38:48 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**.04996**	**.00226**	**.90163**	**.03950**	**.00004**	**40.018**	**-.00013**	**.00014**
Stddev	.00019	.00230	.00121	.00310	.00004	.00006	.140	.00003	.00000
%RSD	1543.5	4.5992	53.302	.34419	.10589	183.80	.35003	22.908	.04823
#1	.00015	.05158	.00312	.89943	.03947	-.00001	39.919	-.00011	.00014
#2	-.00012	.04833	.00141	.90382	.03953	.00008	40.117	-.00016	.00014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00168**	**.00072**	**1.3175**	**4.7868**	**.00166**	**13.015**	**.35198**	**.00180**	**16.767**
Stddev	.00052	.00010	.0113	.0004	.00039	.014	.00023	.00030	.103
%RSD	30.903	13.472	.85979	.00896	23.754	.11064	.06523	16.916	.61513
#1	.00204	.00079	1.3095	4.7871	.00193	13.005	.35181	.00202	16.694
#2	.00131	.00065	1.3255	4.7865	.00138	13.025	.35214	.00159	16.840
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00106**	**.00286**	**4.539**	**-.00030**	**.00064**	**.89652**	**-.00073**	**.08236**	**.00192**
Stddev	.00070	.00235	.003	.00060	.00897	.01317	.00038	.00059	.00001
%RSD	66.419	82.075	.0756	202.46	1404.2	1.4685	52.178	.72190	.71533
#1	.00155	.00453	4.536	.00013	.00698	.88721	-.00100	.08194	.00191
#2	.00056	.00120	4.541	-.00072	-.00570	.90583	-.00046	.08278	.00193
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.00001**	**.00049**	**.00506**
Stddev	.00384	.00013	.00152
%RSD	30285.	27.532	29.971
#1	-.00270	.00058	.00613
#2	.00273	.00039	.00399
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1565.3**	**1107.4**	**33303.**	**10800.**
Stddev	2.6	3.2	42.	40.
%RSD	.16653	.29261	.12710	.37485
#1	1567.1	1109.7	33273.	10828.
#2	1563.4	1105.1	33333.	10771.
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-70154-b-5-a Acquired: 10/30/2014 2:41:35 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00013**	**.02867**	**.03277**	**2.0547**	**.02801**	**.00003**	**59.639**	**-.00018**	**-.00014**
Stddev	.00016	.00271	.00061	.0106	.00012	.00002	.546	.00004	.00019
%RSD	117.66	9.4582	1.8646	.51630	.41120	74.426	.91625	23.177	128.99
#1	-.00024	.03059	.03320	2.0622	.02810	.00004	59.252	-.00021	-.00001
#2	-.00002	.02675	.03234	2.0472	.02793	.00001	60.025	-.00015	-.00028
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00148**	**.00047**	**.26971**	**20.054**	**.00214**	**7.5073**	**.19327**	**.04582**	**4.1641**
Stddev	.00058	.00002	.00019	.013	.00006	.0056	.00006	.00050	.0041
%RSD	39.081	5.1784	.06861	.06322	2.6662	.07396	.03105	1.0902	.09935
#1	.00107	.00049	.26958	20.045	.00210	7.5113	.19323	.04618	4.1612
#2	.00188	.00045	.26984	20.063	.00218	7.5034	.19332	.04547	4.1671
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00044**	**.00227**	**10.79**	**-.00122**	**.00741**	**7.9070**	**.00006**	**.12337**	**.00115**
Stddev	.00047	.00056	.03	.00151	.00386	.0280	.00092	.00014	.00008
%RSD	106.39	24.719	.2858	124.49	52.122	.35407	1641.7	.11459	7.2155
#1	-.00077	.00187	10.81	-.00229	.00468	7.8872	-.00059	.12327	.00109
#2	-.00011	.00267	10.77	-.00015	.01014	7.9268	.00071	.12347	.00121
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.00022**	**.00095**	**.00530**
Stddev	.00409	.00015	.00056
%RSD	1894.5	15.965	10.543
#1	-.00268	.00085	.00491
#2	.00311	.00106	.00570
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1554.8**	**1101.1**	**33107.**	**10740.**
Stddev	3.0	5.2	114.	60.
%RSD	.19490	.47460	.34451	.56228
#1	1552.6	1097.4	33027.	10782.
#2	1556.9	1104.7	33188.	10697.
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-70154-b-6-a Acquired: 10/30/2014 2:44:22 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00079**	**.01698**	**.02821**	**1.9348**	**.02696**	**.00004**	**57.233**	**-.00020**	**-.00008**
Stddev	.00059	.00641	.00148	.0003	.00024	.00001	.373	.00010	.00010
%RSD	74.642	37.758	5.2353	.01573	.88214	27.520	.65188	48.337	116.08
#1	-.00037	.01244	.02926	1.9350	.02712	.00003	57.497	-.00013	-.00015
#2	-.00120	.02151	.02717	1.9346	.02679	.00005	56.969	-.00027	-.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00118**	**.00079**	**.27801**	**19.091**	**.00227**	**7.2211**	**.18676**	**.04399**	**3.9731**
Stddev	.00009	.00001	.00091	.047	.00009	.0357	.00029	.00023	.0192
%RSD	7.5405	.85889	.32837	.24732	3.9088	.49426	.15568	.51175	.48200
#1	.00124	.00079	.27737	19.057	.00233	7.2463	.18696	.04415	3.9595
#2	.00112	.00080	.27866	19.124	.00221	7.1958	.18655	.04383	3.9866
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00089**	**.00245**	**10.32**	**-.00104**	**-.00532**	**7.5340**	**-.00014**	**.11786**	**.00104**
Stddev	.00056	.00049	.03	.00060	.00510	.0042	.00015	.00056	.00019
%RSD	62.204	19.935	.3061	57.709	95.886	.05615	110.12	.47324	17.925
#1	.00129	.00210	10.34	-.00146	-.00171	7.5310	-.00003	.11747	.00091
#2	.00050	.00279	10.30	-.00061	-.00893	7.5370	-.00025	.11826	.00118
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00090**	**.00132**	**.00502**
Stddev	.00252	.00030	.00006
%RSD	280.44	22.902	1.0970
#1	-.00268	.00111	.00506
#2	.00088	.00154	.00498
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1565.4**	**1116.4**	**33355.**	**10715.**
Stddev	2.4	2.4	227.	21.
%RSD	.15017	.21531	.67925	.19639
#1	1563.8	1114.7	33195.	10700.
#2	1567.1	1118.1	33515.	10730.
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-70154-b-7-a Acquired: 10/30/2014 2:47:08 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00013**	**.00867**	**.00303**	**.14307**	**.01826**	**.00003**	**11.434**	**-.00011**	**.00001**
Stddev	.00063	.00697	.00053	.00122	.00006	.00001	.114	.00001	.00010
%RSD	496.18	80.376	17.369	.85268	.32959	41.749	.99856	12.280	1473.6
#1	.00057	.01359	.00340	.14394	.01831	.00002	11.515	-.00012	-.00007
#2	-.00032	.00374	.00266	.14221	.01822	.00003	11.353	-.00010	.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00076**	**.00063**	**.37234**	**.47731**	**.00073**	**3.8988**	**.03609**	**-.00000**	**3.7894**
Stddev	.00025	.00015	.00261	.01977	.00035	.0078	.00010	.00071	.0333
%RSD	32.414	24.312	.70136	4.1412	48.218	.20035	.27622	21348.	.87916
#1	.00093	.00074	.37419	.46333	.00097	3.8933	.03616	-.00050	3.7658
#2	.00058	.00052	.37050	.49128	.00048	3.9043	.03602	.00050	3.8130
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00017**	**.00074**	**1.592**	**-.00078**	**-.00225**	**.12735**	**.00001**	**.02398**	**.00081**
Stddev	.00007	.00163	.006	.00127	.00276	.00286	.00029	.00019	.00018
%RSD	43.848	221.54	.3557	161.83	122.59	2.2432	3866.8	.78226	22.476
#1	-.00022	.00189	1.596	-.00168	-.00030	.12533	-.00020	.02384	.00068
#2	-.00011	-.00042	1.588	.00011	-.00420	.12937	.00021	.02411	.00094
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.00577**	**.00064**	**.00625**
Stddev	.00138	.00022	.00042
%RSD	23.830	34.493	6.6664
#1	.00675	.00080	.00595
#2	.00480	.00048	.00654
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1657.9**	**1143.3**	**34400.**	**10870.**
Stddev	4.0	2.2	107.	31.
%RSD	.24306	.19353	.30988	.28531
#1	1655.1	1141.8	34324.	10848.
#2	1660.8	1144.9	34475.	10892.
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-70154-b-8-a Acquired: 10/30/2014 2:49:58 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00043**	**.01722**	**-.00005**	**.21119**	**.02370**	**.00004**	**16.011**	**-.00021**	**.00010**
Stddev	.00111	.00072	.00157	.00035	.00007	.00000	.015	.00009	.00004
%RSD	258.79	4.2030	2916.5	.16755	.29995	4.8463	.09095	42.548	41.521
#1	.00121	.01773	.00105	.21094	.02375	.00004	16.022	-.00027	.00007
#2	-.00035	.01670	-.00116	.21144	.02365	.00004	16.001	-.00015	.00012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00073**	**.00095**	**.32530**	**.27046**	**.00115**	**5.4165**	**.03776**	**.00032**	**6.6842**
Stddev	.00000	.00007	.00045	.01790	.00023	.0104	.00002	.00031	.0069
%RSD	.58427	7.0606	.13963	6.6189	19.662	.19248	.04089	96.093	.10337
#1	.00072	.00090	.32563	.28312	.00099	5.4239	.03778	.00010	6.6891
#2	.00073	.00099	.32498	.25780	.00131	5.4092	.03775	.00054	6.6793
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00007**	**.00198**	**1.745**	**.00058**	**.00285**	**.11754**	**-.00052**	**.03415**	**.00064**
Stddev	.00089	.00081	.009	.00058	.00255	.00010	.00015	.00002	.00003
%RSD	1191.7	40.722	.5412	100.17	89.449	.08114	28.591	.06346	4.4212
#1	-.00056	.00141	1.738	.00017	.00465	.11747	-.00062	.03413	.00062
#2	.00071	.00255	1.752	.00099	.00105	.11761	-.00041	.03416	.00065
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00029**	**.00043**	**.00562**
Stddev	.00576	.00013	.00034
%RSD	2003.9	29.992	6.0960
#1	.00378	.00034	.00538
#2	-.00436	.00052	.00586
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1633.8**	**1133.3**	**34125.**	**10845.**
Stddev	1.3	.1	27.	3.
%RSD	.07856	.01303	.07938	.02324
#1	1634.7	1133.2	34106.	10847.
#2	1632.9	1133.4	34145.	10843.
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-70156-a-1-a Acquired: 10/30/2014 2:52:48 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00027**	**.27432**	**.00033**	**.04152**	**.00851**	**.00012**	**7.6253**	**-.00021**	**.00080**
Stddev	.00012	.00264	.00348	.00062	.00005	.00002	.0688	.00004	.00011
%RSD	45.754	.96398	1046.0	1.4897	.58674	14.677	.90261	20.818	13.225
#1	-.00036	.27245	-.00213	.04196	.00854	.00014	7.6739	-.00018	.00072
#2	-.00018	.27619	.00279	.04108	.00847	.00011	7.5766	-.00025	.00087
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00227**	**.00049**	**1.2407**	**.55773**	**.00088**	**3.1310**	**.01545**	**-.00012**	**1.4735**
Stddev	.00042	.00010	.0087	.00080	.00033	.0115	.00012	.00035	.0010
%RSD	18.469	20.948	.70339	.14366	36.998	.36792	.78169	301.09	.06549
#1	.00257	.00042	1.2468	.55716	.00111	3.1392	.01554	.00013	1.4742
#2	.00197	.00057	1.2345	.55830	.00065	3.1229	.01537	-.00037	1.4728
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00106**	**.00092**	**3.058**	**.00127**	**-.00054**	**5.8888**	**-.00055**	**.02365**	**.00225**
Stddev	.00017	.00138	.022	.00036	.00705	.0530	.00017	.00012	.00020
%RSD	16.320	150.16	.7140	28.132	1309.9	.90051	30.725	.52701	9.0032
#1	.00094	-.00006	3.074	.00152	-.00552	5.9263	-.00066	.02374	.00240
#2	.00118	.00189	3.043	.00102	.00444	5.8513	-.00043	.02357	.00211
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.00212**	**.00352**	**.00510**
Stddev	.00624	.00002	.00054
%RSD	294.28	.61573	10.549
#1	.00653	.00351	.00472
#2	-.00229	.00354	.00548
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1669.0**	**1143.5**	**34655.**	**10939.**
Stddev	5.4	3.8	193.	46.
%RSD	.32394	.32901	.55775	.41811
#1	1665.2	1140.8	34519.	10907.
#2	1672.8	1146.1	34792.	10972.
Check ?	None	None	None	None
Value				
Range				

Sample Name: CCV-2388838 Acquired: 10/30/2014 2:55:40 Type: QC
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.53751**	**26.215**	**.51062**	**.50783**	**.51202**	**.50243**	**25.225**	**.51292**	**.50987**	**.51513**	**.51113**	**25.404**	**25.319**	**.50831**
Stddev	.00049	.013	.00333	.00035	.00012	.00020	.026	.00054	.00218	.00062	.00629	.004	.035	.00257
%RSD	.09143	.05109	.65298	.06891	.02339	.03976	.10249	.10472	.42832	.11983	1.2301	.01444	.13857	.50574
#1	.53786	26.205	.50826	.50808	.51211	.50229	25.207	.51330	.50833	.51470	.50669	25.402	25.343	.51013
#2	.53717	26.224	.51298	.50758	.51194	.50257	25.244	.51254	.51142	.51557	.51558	25.407	25.294	.50649
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value														
Range														

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**26.239**	**.52683**	**.52096**	**25.411**	**.51612**	**.51274**	**25.59**	**.51622**	**.50191**	**25.695**	**.51542**	**.51219**	**.52586**	**.50666**
Stddev	.086	.00045	.00014	.017	.00158	.00031	.06	.00034	.00301	.002	.00285	.00032	.00170	.00627
%RSD	.32831	.08481	.02703	.06659	.30648	.06113	.2456	.06608	.59962	.00783	.55369	.06266	.32407	1.2376
#1	26.178	.52652	.52106	25.399	.51500	.51252	25.55	.51646	.50403	25.694	.51340	.51242	.52466	.51109
#2	26.300	.52715	.52087	25.423	.51724	.51296	25.64	.51598	.49978	25.696	.51744	.51197	.52707	.50222
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value														
Range														

Elem	V_2924	Zn2062
Units	ppm	ppm
Avg	**.51250**	**.52959**
Stddev	.00221	.00492
%RSD	.43132	.92818
#1	.51093	.52611
#2	.51406	.53306
Check ?	Chk Pass	Chk Pass
Value		
Range		

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1514.6**	**1122.0**	**33167.**	**10693.**
Stddev	2.5	2.3	63.	6.
%RSD	.16801	.20645	.18965	.05506
#1	1516.4	1120.4	33211.	10697.
#2	1512.8	1123.6	33122.	10689.

Sample Name: CCB-2388837 Acquired: 10/30/2014 2:58:25 Type: QC
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00047**	**.00323**	**-.00261**	**.00433**	**.00002**	**.00010**	**.00378**	**.00003**	**.00012**	**-.00002**	**.00010**	**.00198**
Stddev	.00060	.00354	.00401	.00004	.00001	.00002	.00194	.00011	.00008	.00097	.00034	.00165
%RSD	126.65	109.45	153.56	.86534	36.781	19.884	51.281	316.45	64.894	5902.4	335.43	83.021
#1	.00005	.00574	-.00544	.00436	.00001	.00009	.00241	-.00004	.00007	.00067	-.00014	.00082
#2	.00090	.00073	.00022	.00431	.00002	.00012	.00516	.00011	.00018	-.00070	.00034	.00315
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit												
Low Limit												

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.01704**	**.00034**	**.00216**	**-.00035**	**-.00001**	**.01129**	**.00056**	**.00205**	**-.0034**	**-.00088**	**.00368**	**.00425**
Stddev	.00764	.00064	.00066	.00007	.00020	.00118	.00005	.00032	.0055	.00263	.00552	.00522
%RSD	44.855	189.56	30.705	21.001	1473.4	10.424	9.6082	15.435	165.1	298.52	150.09	123.06
#1	-.02245	.00079	.00169	-.00040	-.00016	.01046	.00060	.00228	-.0073	.00098	-.00023	.00794
#2	-.01164	-.00011	.00263	-.00030	.00013	.01212	.00052	.00183	.0006	-.00274	.00758	.00055
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit												
Low Limit												

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00032**	**.00009**	**.00031**	**-.00181**	**-.00006**	**.00027**
Stddev	.00052	.00004	.00028	.00196	.00014	.00092
%RSD	163.09	43.094	88.553	107.85	217.43	334.43
#1	.00005	.00006	.00012	-.00043	-.00016	.00092
#2	-.00068	.00012	.00051	-.00320	.00003	-.00037
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1719.8**	**1168.5**	**35086.**	**10854.**
Stddev	3.6	.3	46.	35.
%RSD	.20913	.02151	.13117	.31847
#1	1717.3	1168.4	35119.	10829.
#2	1722.4	1168.7	35053.	10878.

Sample Name: CCVL-2388843 Acquired: 10/30/2014 3:01:20 Type: QC
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00589**	**.20101**	**.01158**	**.02362**	**.00213**	**.00206**	**.50202**	**.00186**	**.00390**	**.00415**	**.00828**	**.05121**
Stddev	.00065	.00833	.00589	.00065	.00002	.00001	.00681	.00002	.00006	.00028	.00004	.00147
%RSD	10.960	4.1463	50.896	2.7708	1.1134	.69508	1.3569	1.1783	1.4218	6.6873	.45300	2.8681
#1	.00635	.20690	.01574	.02408	.00212	.00207	.49720	.00187	.00386	.00396	.00831	.05225
#2	.00544	.19511	.00741	.02316	.00215	.00205	.50684	.00184	.00394	.00435	.00826	.05017
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value												
Range												

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.46860**	**.02966**	**.20531**	**.00284**	**.00987**	**.97484**	**.00921**	**.01010**	**.1851**	**.01812**	**.02490**	**.51045**
Stddev	.00907	.00047	.00177	.00016	.00006	.00083	.00018	.00012	.0018	.00090	.00853	.00070
%RSD	1.9349	1.5975	.86201	5.4693	.59938	.08505	1.9327	1.1431	.9466	4.9748	34.262	.13696
#1	.47501	.02999	.20656	.00273	.00983	.97543	.00933	.01002	.1839	.01876	.01887	.51094
#2	.46219	.02932	.20406	.00295	.00991	.97426	.00908	.01019	.1863	.01749	.03093	.50995
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value												
Range												

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00893**	**.00500**	**.00564**	**.02178**	**.00471**	**.01058**
Stddev	.00035	.00002	.00003	.00240	.00042	.00108
%RSD	3.9554	.30928	.58565	11.014	8.9833	10.197
#1	.00918	.00501	.00566	.02008	.00441	.01134
#2	.00868	.00499	.00561	.02347	.00500	.00982
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1711.7**	**1175.4**	**34976.**	**10715.**
Stddev	8.2	1.7	72.	27.
%RSD	.48187	.14810	.20611	.25595
#1	1705.8	1174.2	35027.	10735.
#2	1717.5	1176.6	34925.	10696.

Sample Name: 480-70156-a-2-a Acquired: 10/30/2014 3:04:12 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00018**	**.05852**	**-.00123**	**.02962**	**.00479**	**.00009**	**10.045**	**-.00026**	**.00005**
Stddev	.00052	.00291	.00142	.00011	.00005	.00006	.101	.00011	.00009
%RSD	293.03	4.9728	115.06	.36503	.96971	71.557	1.0091	41.465	173.86
#1	-.00055	.06058	-.00224	.02970	.00482	.00004	10.117	-.00033	.00012
#2	.00019	.05647	-.00023	.02955	.00475	.00013	9.9738	-.00018	-.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00130**	**-.00012**	**.27162**	**1.3292**	**.00074**	**4.0737**	**.00081**	**.00013**	**2.5436**
Stddev	.00036	.00010	.00217	.0018	.00026	.0143	.00000	.00005	.0003
%RSD	27.465	81.396	.80055	.13512	35.520	.34988	.50391	41.371	.01048
#1	.00105	-.00005	.27008	1.3305	.00055	4.0838	.00082	.00017	2.5438
#2	.00156	-.00019	.27315	1.3280	.00093	4.0636	.00081	.00009	2.5434
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00026**	**.00334**	**6.474**	**-.00165**	**.00384**	**7.9632**	**-.00056**	**.07455**	**.00096**
Stddev	.00003	.00192	.005	.00101	.00077	.0844	.00006	.00002	.00009
%RSD	10.631	57.409	.0784	61.032	20.096	1.0602	10.718	.02614	9.0645
#1	.00024	.00198	6.471	-.00094	.00438	8.0229	-.00052	.07454	.00089
#2	.00028	.00470	6.478	-.00237	.00329	7.9035	-.00061	.07457	.00102
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00247**	**.00002**	**.00416**
Stddev	.00206	.00041	.00133
%RSD	83.284	1650.5	31.847
#1	-.00102	-.00026	.00510
#2	-.00392	.00031	.00322
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1668.4**	**1152.3**	**34439.**	**10863.**
Stddev	6.3	3.2	301.	63.
%RSD	.38014	.27842	.87378	.57606
#1	1663.9	1150.0	34226.	10818.
#2	1672.9	1154.6	34652.	10907.
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-70156-a-3-a Acquired: 10/30/2014 3:07:01 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00035**	**.22273**	**.00213**	**.03661**	**.00910**	**.00008**	**3.1877**	**-.00016**	**.00147**
Stddev	.00016	.00271	.00108	.00018	.00006	.00001	.0699	.00008	.00021
%RSD	45.406	1.2162	50.579	.48115	.60477	9.9932	2.1929	48.709	14.376
#1	-.00024	.22082	.00137	.03674	.00913	.00009	3.1383	-.00021	.00162
#2	-.00047	.22465	.00289	.03649	.00906	.00008	3.2372	-.00010	.00132
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00070**	**.00049**	**6.0048**	**.44242**	**.00083**	**1.8960**	**.02168**	**-.00011**	**1.4373**
Stddev	.00045	.00022	.1206	.00599	.00043	.0132	.00011	.00019	.0154
%RSD	64.450	44.033	2.0083	1.3543	51.179	.69575	.48653	175.39	1.0685
#1	.00103	.00064	5.9195	.44666	.00053	1.9053	.02160	-.00025	1.4265
#2	.00038	.00034	6.0901	.43818	.00114	1.8866	.02175	.00003	1.4482
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00094**	**.00245**	**4.980**	**.00115**	**-.00071**	**6.2245**	**.00036**	**.01293**	**.00183**
Stddev	.00026	.00108	.015	.00014	.00408	.0993	.00027	.00010	.00026
%RSD	27.732	43.936	.2914	12.288	574.11	1.5959	74.517	.77609	14.301
#1	.00075	.00321	4.991	.00105	.00218	6.1542	.00055	.01286	.00165
#2	.00112	.00169	4.970	.00125	-.00360	6.2947	.00017	.01300	.00202
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00288**	**.00162**	**.00649**
Stddev	.00380	.00021	.00044
%RSD	131.74	12.739	6.7598
#1	-.00020	.00148	.00680
#2	-.00556	.00177	.00618
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1687.9**	**1150.8**	**34683.**	**10979.**
Stddev	2.0	2.8	159.	181.
%RSD	.11768	.23996	.45889	1.6451
#1	1686.5	1152.7	34570.	11107.
#2	1689.4	1148.8	34795.	10851.
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-70156-a-4-a Acquired: 10/30/2014 3:09:51 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00025**	**.03603**	**.00472**	**.82372**	**.04194**	**.00003**	**47.226**	**-.00004**	**.00004**
Stddev	.00055	.00448	.00247	.00123	.00010	.00003	.246	.00003	.00007
%RSD	223.52	12.422	52.303	.14916	.23836	88.226	.52114	58.297	158.31
#1	-.00063	.03287	.00647	.82459	.04201	.00001	47.052	-.00006	-.00000
#2	.00014	.03920	.00297	.82285	.04187	.00006	47.400	-.00003	.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00126**	**.00067**	**1.8956**	**3.1704**	**.00871**	**15.872**	**.48664**	**.00799**	**4.2323**
Stddev	.00032	.00020	.0022	.0023	.00019	.011	.00088	.00002	.0051
%RSD	25.372	30.323	.11711	.07298	2.1947	.06860	.18002	.24923	.11973
#1	.00103	.00053	1.8971	3.1687	.00857	15.880	.48602	.00800	4.2287
#2	.00148	.00081	1.8940	3.1720	.00884	15.865	.48726	.00797	4.2358
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00106**	**.00153**	**.3304**	**-.00226**	**-.00266**	**7.7462**	**-.00048**	**.20972**	**.00102**
Stddev	.00004	.00034	.0007	.00084	.00181	.0216	.00026	.00002	.00041
%RSD	3.8307	22.484	.2180	37.089	68.014	.27824	53.812	.01072	40.428
#1	.00109	.00129	.3299	-.00167	-.00393	7.7309	-.00066	.20974	.00073
#2	.00103	.00178	.3309	-.00286	-.00138	7.7614	-.00030	.20970	.00131
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00064**	**.00010**	**.00458**
Stddev	.00460	.00003	.00074
%RSD	719.81	30.681	16.159
#1	.00262	.00008	.00406
#2	-.00389	.00012	.00511
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1572.6**	**1116.5**	**33434.**	**10770.**
Stddev	1.4	2.7	4.	47.
%RSD	.08879	.23844	.01047	.43257
#1	1571.6	1114.6	33436.	10803.
#2	1573.6	1118.4	33431.	10737.
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-70156-a-5-a Acquired: 10/30/2014 3:12:37 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00027**	**1.2465**	**.00009**	**1.0116**	**.04174**	**.00012**	**28.121**	**-.00003**	**.00165**
Stddev	.00023	.0015	.00273	.0044	.00003	.00000	.083	.00015	.00001
%RSD	84.907	.12423	2946.0	.43284	.06326	2.6972	.29544	549.11	.77953
#1	-.00011	1.2476	-.00184	1.0085	.04172	.00012	28.063	.00008	.00166
#2	-.00043	1.2454	.00203	1.0147	.04176	.00013	28.180	-.00013	.00164
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00570**	**.00128**	**11.090**	**1.8402**	**.00200**	**9.5351**	**.51382**	**.00065**	**15.079**
Stddev	.00019	.00003	.050	.0183	.00025	.0143	.00037	.00040	.018
%RSD	3.3325	2.4832	.45105	.99487	12.617	.14965	.07204	61.897	.11611
#1	.00556	.00130	11.055	1.8531	.00218	9.5250	.51356	.00036	15.067
#2	.00583	.00126	11.125	1.8272	.00182	9.5452	.51408	.00093	15.091
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00338**	**.00372**	**8.065**	**-.00027**	**.00561**	**8.6887**	**.00025**	**.06474**	**.03461**
Stddev	.00044	.00208	.038	.00088	.00372	.0272	.00070	.00026	.00044
%RSD	12.930	55.837	.4702	331.02	66.308	.31311	276.31	.39806	1.2807
#1	.00369	.00519	8.038	.00036	.00824	8.7080	-.00024	.06493	.03492
#2	.00307	.00225	8.092	-.00089	.00298	8.6695	.00075	.06456	.03429
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00063**	**.00406**	**.00462**
Stddev	.00184	.00004	.00026
%RSD	292.46	.94882	5.6362
#1	.00067	.00409	.00443
#2	-.00193	.00403	.00480
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1590.7**	**1132.9**	**33704.**	**10814.**
Stddev	4.6	2.7	18.	33.
%RSD	.28635	.23598	.05310	.30677
#1	1593.9	1134.8	33691.	10838.
#2	1587.5	1131.0	33717.	10791.
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-70156-a-6-a Acquired: 10/30/2014 3:15:23 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00057**	**.08035**	**.02684**	**4.9976**	**.03655**	**.00016**	**64.845**	**-.00016**	**-.00005**
Stddev	.00011	.00006	.00144	.0269	.00011	.00003	.062	.00004	.00003
%RSD	18.689	.07085	5.3687	.53795	.29264	17.672	.09589	22.709	60.586
#1	-.00065	.08039	.02582	4.9785	.03663	.00014	64.889	-.00018	-.00003
#2	-.00050	.08031	.02786	5.0166	.03648	.00018	64.801	-.00013	-.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00163**	**.00066**	**2.7625**	**20.413**	**.00233**	**6.7978**	**.34208**	**.01051**	**6.1331**
Stddev	.00033	.00008	.0080	.063	.00041	.0386	.00189	.00004	.0149
%RSD	20.407	12.443	.28924	.30622	17.756	.56755	.55361	.39636	.24344
#1	.00186	.00072	2.7682	20.369	.00262	6.8251	.34342	.01049	6.1437
#2	.00139	.00061	2.7569	20.457	.00204	6.7705	.34074	.01054	6.1226
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00155**	**.00223**	**1.032**	**-.00087**	**.00537**	**9.7420**	**.00020**	**.13832**	**.00212**
Stddev	.00006	.00119	.005	.00001	.00143	.0576	.00020	.00011	.00015
%RSD	4.0597	53.219	.5279	1.1935	26.606	.59150	100.92	.08267	7.2246
#1	.00159	.00139	1.036	-.00088	.00639	9.7012	.00034	.13824	.00222
#2	.00151	.00307	1.028	-.00086	.00436	9.7827	.00006	.13840	.00201
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.00159**	**.00271**	**.00621**
Stddev	.00577	.00027	.00151
%RSD	364.03	10.069	24.342
#1	-.00250	.00251	.00728
#2	.00567	.00290	.00514
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1545.3**	**1112.7**	**33275.**	**10724.**
Stddev	7.9	2.9	45.	7.
%RSD	.50829	.26034	.13394	.06088
#1	1550.9	1114.7	33244.	10720.
#2	1539.8	1110.6	33307.	10729.
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-70156-a-7-a Acquired: 10/30/2014 3:18:10 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00028**	**.11431**	**.02132**	**5.0738**	**.03664**	**.00017**	**66.878**	**-.00009**	**.00018**
Stddev	.00059	.00431	.00248	.0245	.00007	.00001	.179	.00027	.00017
%RSD	209.81	3.7714	11.631	.48350	.19897	4.5237	.26712	310.05	96.423
#1	.00070	.11736	.02308	5.0911	.03659	.00016	66.752	.00010	.00006
#2	-.00014	.11126	.01957	5.0565	.03669	.00017	67.005	-.00028	.00030
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00214**	**.00023**	**2.7599**	**20.791**	**.00207**	**6.8189**	**.33989**	**.01030**	**6.2627**
Stddev	.00041	.00028	.0082	.095	.00014	.0346	.00045	.00066	.0215
%RSD	19.158	123.98	.29709	.45609	6.8420	.50805	.13311	6.4324	.34330
#1	.00185	.00003	2.7541	20.724	.00197	6.8434	.33957	.01076	6.2475
#2	.00243	.00043	2.7657	20.858	.00216	6.7944	.34021	.00983	6.2779
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00063**	**.00086**	**1.028**	**-.00079**	**.00263**	**10.066**	**-.00069**	**.14109**	**.00192**
Stddev	.00056	.00069	.002	.00261	.00746	.004	.00060	.00070	.00030
%RSD	88.951	80.340	.1735	329.09	283.87	.03588	86.348	.49862	15.890
#1	.00023	.00037	1.029	-.00264	.00790	10.069	-.00027	.14059	.00213
#2	.00103	.00134	1.026	.00105	-.00265	10.064	-.00111	.14159	.00170
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00006**	**.00257**	**.00404**
Stddev	.00250	.00010	.00148
%RSD	3930.6	3.8217	36.585
#1	-.00183	.00264	.00300
#2	.00171	.00251	.00509
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1544.6**	**1108.3**	**33066.**	**10655.**
Stddev	2.2	2.7	28.	46.
%RSD	.13920	.24653	.08359	.43413
#1	1543.1	1106.4	33086.	10688.
#2	1546.2	1110.2	33047.	10622.
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-70156-b-9-a Acquired: 10/30/2014 3:20:56 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00046**	**.13593**	**-.00274**	**1.5619**	**.04693**	**.00003**	**32.355**	**-.00023**	**.00012**
Stddev	.00054	.00403	.00087	.0061	.00019	.00005	.257	.00002	.00001
%RSD	116.35	2.9652	31.942	.39229	.41522	157.08	.79361	6.9131	12.293
#1	.00008	.13878	-.00212	1.5576	.04707	.00007	32.537	-.00024	.00013
#2	.00084	.13308	-.00336	1.5662	.04679	-.00000	32.174	-.00021	.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00211**	**.00068**	**8.3655**	**3.4070**	**.00372**	**11.599**	**.42827**	**.00144**	**6.8952**
Stddev	.00014	.00016	.0140	.0147	.00013	.035	.00066	.00021	.0258
%RSD	6.5134	24.044	.16743	.43297	3.5504	.30174	.15520	14.232	.37425
#1	.00201	.00079	8.3754	3.4174	.00381	11.623	.42780	.00130	6.9135
#2	.00221	.00056	8.3556	3.3966	.00363	11.574	.42874	.00159	6.8770
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00119**	**.00139**	**.9050**	**-.00258**	**.00125**	**7.6191**	**-.00089**	**.15559**	**.00343**
Stddev	.00013	.00362	.0102	.00176	.00475	.0382	.00001	.00056	.00024
%RSD	11.202	261.03	1.126	68.311	380.63	.50149	.90362	.35675	6.9192
#1	.00128	.00395	.9122	-.00133	-.00211	7.6461	-.00088	.15598	.00326
#2	.00109	-.00117	.8978	-.00383	.00460	7.5921	-.00090	.15520	.00359
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.00018**	**.00123**	**.52754**
Stddev	.00505	.00017	.00673
%RSD	2805.2	13.544	1.2750
#1	-.00339	.00112	.52279
#2	.00375	.00135	.53230
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1588.9**	**1122.1**	**33876.**	**10796.**
Stddev	3.9	8.2	190.	55.
%RSD	.24240	.73353	.56199	.50956
#1	1591.6	1127.9	33742.	10757.
#2	1586.1	1116.3	34011.	10835.
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-70156-b-10-a Acquired: 10/30/2014 3:23:42 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**.02540**	**.00102**	**.11572**	**.06851**	**.00005**	**75.733**	**-.00005**	**-.00042**
Stddev	.00023	.00047	.00514	.00103	.00005	.00001	.277	.00013	.00003
%RSD	600.39	1.8356	503.59	.88664	.07155	13.934	.36609	253.64	7.0514
#1	.00012	.02573	.00465	.11645	.06847	.00004	75.929	-.00014	-.00044
#2	-.00020	.02507	-.00261	.11499	.06854	.00005	75.537	.00004	-.00040
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00096**	**.00087**	**.03449**	**1.7316**	**.01710**	**48.866**	**.02442**	**.00123**	**13.841**
Stddev	.00038	.00012	.00208	.0013	.00072	.005	.00009	.00053	.082
%RSD	39.345	13.479	6.0168	.07600	4.1937	.01012	.38171	43.290	.59161
#1	.00123	.00096	.03302	1.7307	.01760	48.863	.02448	.00160	13.783
#2	.00069	.00079	.03596	1.7325	.01659	48.870	.02435	.00085	13.899
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00045**	**.00179**	**17.94**	**-.00154**	**-.00020**	**8.0261**	**-.00068**	**.54675**	**.00097**
Stddev	.00015	.00084	.06	.00081	.00172	.0171	.00061	.00179	.00038
%RSD	34.155	46.930	.3527	52.199	840.04	.21275	89.388	.32720	38.653
#1	.00056	.00119	17.98	-.00097	-.00142	8.0382	-.00112	.54549	.00071
#2	.00034	.00238	17.89	-.00211	.00101	8.0140	-.00025	.54802	.00124
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00570**	**.00493**	**.00500**
Stddev	.00172	.00021	.00003
%RSD	30.241	4.2826	.64262
#1	-.00692	.00478	.00502
#2	-.00448	.00507	.00497
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1517.0**	**1093.5**	**32631.**	**10738.**
Stddev	1.2	1.7	71.	23.
%RSD	.07704	.15440	.21642	.21003
#1	1516.2	1092.3	32581.	10722.
#2	1517.8	1094.7	32681.	10754.
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-70156-b-11-a Acquired: 10/30/2014 3:26:30 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00019**	**.02869**	**.00029**	**.79061**	**.04904**	**.00002**	**59.810**	**-.00004**	**-.00004**
Stddev	.00001	.00364	.00349	.00150	.00000	.00003	.722	.00008	.00023
%RSD	3.9355	12.704	1201.2	.18960	.00463	118.88	1.2064	214.61	595.15
#1	.00018	.03127	-.00218	.79167	.04904	.00005	60.320	.00002	-.00020
#2	.00020	.02611	.00276	.78955	.04904	.00000	59.299	-.00009	.00013
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00128**	**.00103**	**.28452**	**1.7930**	**.00904**	**28.519**	**.57261**	**-.00035**	**6.1061**
Stddev	.00048	.00021	.00010	.0028	.00050	.083	.00150	.00065	.0033
%RSD	37.486	20.571	.03345	.15564	5.5754	.28933	.26242	184.49	.05393
#1	.00094	.00118	.28459	1.7949	.00868	28.577	.57367	.00011	6.1038
#2	.00161	.00088	.28445	1.7910	.00939	28.460	.57155	-.00081	6.1085
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00019**	**.00084**	**1.212**	**-.00207**	**.00239**	**8.4143**	**-.00022**	**.35423**	**.00104**
Stddev	.00040	.00177	.005	.00061	.01120	.0630	.00008	.00009	.00038
%RSD	215.92	211.56	.3920	29.543	468.27	.74873	34.733	.02454	36.867
#1	.00047	.00209	1.215	-.00164	-.00553	8.4588	-.00028	.35417	.00131
#2	-.00010	-.00041	1.209	-.00250	.01031	8.3698	-.00017	.35429	.00077
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00161**	**.00036**	**.01299**
Stddev	.00266	.00013	.00117
%RSD	164.78	35.627	9.0051
#1	-.00349	.00027	.01216
#2	.00027	.00044	.01382
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1548.8**	**1109.0**	**33058.**	**10803.**
Stddev	1.1	.6	23.	59.
%RSD	.06942	.05814	.07091	.54352
#1	1549.6	1108.6	33075.	10761.
#2	1548.1	1109.5	33042.	10844.
Check ?	None	None	None	None
Value				
Range				

Sample Name: CCV-2388838 Acquired: 10/30/2014 3:29:18 Type: QC
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.53697**	**26.624**	**.50840**	**.50541**	**.51161**	**.50756**	**25.802**	**.51141**	**.51053**	**.52432**	**.51788**	**25.568**	**25.610**	**.51465**
Stddev	.00285	.041	.00108	.00059	.00511	.00340	.084	.00053	.00171	.00402	.00261	.143	.120	.00240
%RSD	.53079	.15225	.21249	.11661	.99958	.67053	.32482	.10337	.33579	.76742	.50466	.55760	.46709	.46711
#1	.53495	26.595	.50916	.50499	.51522	.50996	25.742	.51103	.50932	.52148	.51972	25.669	25.695	.51635
#2	.53899	26.653	.50763	.50583	.50799	.50515	25.861	.51178	.51174	.52717	.51603	25.467	25.526	.51295
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value														
Range														

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**26.273**	**.52723**	**.51934**	**25.767**	**.51767**	**.51584**	**25.48**	**.50925**	**.50918**	**26.270**	**.51644**	**.52021**	**.52824**	**.50816**
Stddev	.059	.00412	.00091	.063	.00327	.00020	.04	.00146	.00008	.016	.00205	.00260	.00223	.00157
%RSD	.22354	.78192	.17509	.24441	.63110	.03968	.1447	.28631	.01659	.06196	.39777	.49988	.42200	.30860
#1	26.231	.52431	.51870	25.811	.51536	.51569	25.45	.51028	.50912	26.259	.51498	.52205	.52666	.50705
#2	26.314	.53014	.51999	25.722	.51998	.51598	25.50	.50822	.50924	26.282	.51789	.51837	.52981	.50927
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value														
Range														

Elem	V_2924	Zn2062
Units	ppm	ppm
Avg	**.52281**	**.53743**
Stddev	.00091	.00926
%RSD	.17484	1.7233
#1	.52217	.53088
#2	.52346	.54398
Check ?	Chk Pass	Chk Pass
Value		
Range		

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1518.9**	**1130.5**	**32899.**	**10622.**
Stddev	.0	2.3	44.	37.
%RSD	.00133	.20560	.13423	.35201
#1	1518.9	1128.8	32930.	10596.
#2	1518.9	1132.1	32867.	10649.

Sample Name: CCB-2388837 Acquired: 10/30/2014 3:32:03 Type: QC
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00021**	**-.00380**	**.00129**	**.00445**	**.00005**	**.00009**	**.00537**	**-.00023**	**.00012**	**.00079**	**-.00019**	**.00236**
Stddev	.00002	.00719	.00134	.00000	.00001	.00005	.00221	.00012	.00001	.00040	.00012	.00123
%RSD	8.7778	189.09	103.97	.10218	12.382	56.806	41.232	51.515	11.973	50.857	60.918	52.125
#1	-.00020	.00128	.00034	.00445	.00004	.00012	.00693	-.00031	.00011	.00108	-.00011	.00322
#2	-.00022	-.00889	.00223	.00445	.00005	.00005	.00380	-.00015	.00013	.00051	-.00027	.00149
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit												
Low Limit												

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.01828**	**.00031**	**.00113**	**-.00020**	**.00009**	**.00666**	**-.00006**	**-.00048**	**-.0094**	**-.00040**	**-.00172**	**.00337**
Stddev	.01185	.00048	.00528	.00004	.00036	.00134	.00021	.00076	.0007	.00043	.00028	.00632
%RSD	64.853	155.35	467.01	20.922	377.65	20.066	332.71	156.97	7.338	108.33	16.403	187.30
#1	-.00990	-.00003	.00487	-.00017	-.00016	.00761	-.00021	.00005	-.0099	-.00070	-.00152	-.00109
#2	-.02666	.00065	-.00261	-.00023	.00035	.00572	.00009	-.00102	-.0089	-.00009	-.00192	.00784
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit												
Low Limit												

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**.00008**	**.00092**	**-.00012**	**-.00008**	**.00110**
Stddev	.00024	.00000	.00015	.00227	.00007	.00022
%RSD	869.24	2.8097	16.781	1851.9	92.651	19.652
#1	.00020	.00007	.00081	-.00173	-.00013	.00126
#2	-.00014	.00008	.00102	.00148	-.00003	.00095
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1730.0**	**1178.6**	**35303.**	**10725.**
Stddev	7.9	5.5	94.	65.
%RSD	.45787	.46543	.26658	.60370
#1	1724.4	1174.7	35370.	10771.
#2	1735.6	1182.5	35236.	10679.

Sample Name: CCVL-2388843 Acquired: 10/30/2014 3:34:57 Type: QC
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00571**	**.20097**	**.01490**	**.02333**	**.00211**	**.00203**	**.48927**	**.00176**	**.00389**	**.00379**	**.00871**	**.04930**
Stddev	.00084	.01455	.00240	.00018	.00000	.00006	.00304	.00013	.00009	.00092	.00022	.00105
%RSD	14.630	7.2377	16.086	.76322	.03082	3.0926	.62139	7.4430	2.3835	24.285	2.5136	2.1299
#1	.00512	.21126	.01659	.02346	.00211	.00207	.48712	.00167	.00396	.00314	.00856	.04856
#2	.00630	.19069	.01320	.02320	.00211	.00198	.49142	.00186	.00383	.00444	.00887	.05004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value												
Range												

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.45854**	**.02963**	**.20231**	**.00279**	**.00984**	**.98335**	**.00985**	**.00924**	**.1916**	**.01937**	**.02398**	**.49449**
Stddev	.01542	.00023	.00061	.00000	.00024	.01142	.00009	.00291	.0066	.00041	.00047	.01162
%RSD	3.3621	.76825	.30297	.04894	2.4677	1.1615	.91527	31.522	3.442	2.1050	1.9671	2.3493
#1	.46944	.02979	.20275	.00279	.01001	.99143	.00979	.00718	.1963	.01965	.02364	.50270
#2	.44764	.02947	.20188	.00279	.00967	.97527	.00991	.01129	.1869	.01908	.02431	.48628
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value												
Range												

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00946**	**.00498**	**.00549**	**.01722**	**.00511**	**.01065**
Stddev	.00103	.00001	.00026	.00694	.00003	.00051
%RSD	10.878	.30040	4.6857	40.287	.65958	4.7816
#1	.01019	.00497	.00531	.01231	.00514	.01029
#2	.00873	.00499	.00567	.02212	.00509	.01102
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1708.4**	**1165.9**	**34909.**	**10865.**
Stddev	.5	4.8	32.	5.
%RSD	.02967	.41206	.09068	.04592
#1	1708.0	1162.5	34886.	10862.
#2	1708.7	1169.3	34931.	10869.

Sample Name: 480-70156-b-12-a Acquired: 10/30/2014 3:37:48 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00039**	**.01446**	**.00024**	**.24107**	**.06366**	**.00007**	**52.446**	**-.00004**	**-.00008**
Stddev	.00005	.00087	.00235	.00071	.00059	.00002	.094	.00027	.00002
%RSD	13.908	6.0037	964.95	.29531	.92114	25.983	.17841	770.79	29.421
#1	.00043	.01507	.00191	.24056	.06324	.00008	52.512	-.00023	-.00010
#2	.00035	.01384	-.00142	.24157	.06407	.00005	52.380	.00016	-.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00101**	**.00081**	**.18754**	**1.4620**	**.00959**	**28.416**	**.12102**	**.00007**	**10.288**
Stddev	.00116	.00028	.00228	.0024	.00010	.244	.00118	.00026	.026
%RSD	114.28	34.597	1.2182	.16690	1.0418	.85846	.97359	366.62	.25558
#1	.00019	.00061	.18593	1.4637	.00966	28.243	.12018	.00026	10.270
#2	.00183	.00101	.18916	1.4602	.00952	28.588	.12185	-.00011	10.307
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00025**	**.00201**	**.1161**	**-.00214**	**.00220**	**7.5119**	**-.00035**	**.32842**	**.00096**
Stddev	.00050	.00081	.0034	.00284	.00309	.0302	.00115	.00156	.00003
%RSD	199.26	40.338	2.950	132.39	140.21	.40223	334.00	.47544	3.4606
#1	-.00010	.00144	.1137	-.00014	.00438	7.4905	-.00116	.32732	.00094
#2	.00061	.00258	.1185	-.00415	.00002	7.5332	.00047	.32952	.00099
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.00255**	**.00042**	**.00494**
Stddev	.00189	.00024	.00312
%RSD	74.321	57.744	63.017
#1	.00121	.00025	.00715
#2	.00388	.00059	.00274
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1555.6**	**1108.1**	**33439.**	**10784.**
Stddev	.3	1.7	329.	21.
%RSD	.01866	.15164	.98289	.19878
#1	1555.4	1109.3	33672.	10799.
#2	1555.8	1106.9	33207.	10768.
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-70169-b-1-a Acquired: 10/30/2014 3:40:36 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00064**	**.03694**	**.00724**	**.10748**	**.04081**	**-.00001**	**272.65**	**-.00004**	**.00359**
Stddev	.00069	.01288	.00182	.00023	.00003	.00003	.37	.00011	.00005
%RSD	107.73	34.865	25.174	.21685	.06272	480.64	.13621	279.68	1.2560
#1	.00112	.04605	.00853	.10765	.04083	.00001	272.92	.00004	.00362
#2	.00015	.02783	.00595	.10732	.04079	-.00002	272.39	-.00012	.00356
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00263**	**.00170**	**.32660**	**3.7329**	**.00616**	**99.689**	**2.0454**	**.00203**	**24.264**
Stddev	.00090	.00012	.00290	.0035	.00047	.127	.0059	.00007	.046
%RSD	34.409	6.8281	.88835	.09445	7.6564	.12717	.28977	3.6888	.18838
#1	.00199	.00178	.32455	3.7354	.00582	99.779	2.0496	.00198	24.296
#2	.00327	.00161	.32866	3.7304	.00649	99.600	2.0412	.00208	24.231
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01416**	**.00101**	**247.7**	**-.00211**	**-.00136**	**9.0483**	**-.00048**	**.50894**	**.00137**
Stddev	.00064	.00127	.0	.00016	.00137	.0056	.00124	.00210	.00026
%RSD	4.5130	125.25	.0152	7.6362	101.19	.06162	260.04	.41282	19.162
#1	.01371	.00191	247.6	-.00200	-.00233	9.0523	-.00135	.51043	.00156
#2	.01461	.00012	247.7	-.00222	-.00039	9.0444	.00040	.50746	.00119
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00296**	**-.00032**	**.42986**
Stddev	.00699	.00011	.00235
%RSD	236.23	34.578	.54620
#1	.00198	-.00040	.43152
#2	-.00791	-.00024	.42820
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1388.1**	**1026.9**	**31003.**	**10445.**
Stddev	.6	.2	107.	47.
%RSD	.04532	.02004	.34486	.44637
#1	1387.6	1027.0	30927.	10412.
#2	1388.5	1026.7	31079.	10478.
Check ?	None	None	None	None
Value				
Range				

Sample Name: BLANK Acquired: 10/30/2014 3:43:29 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00019**	**.00439**	**-.00281**	**.00287**	**-.00001**	**.00005**	**.01798**	**-.00005**	**.00009**
Stddev	.00095	.00093	.00478	.00003	.00000	.00000	.00213	.00005	.00012
%RSD	492.69	21.270	170.11	1.0427	1.8930	7.6850	11.827	105.59	132.98
#1	.00087	.00505	.00057	.00289	-.00001	.00006	.01948	-.00008	.00018
#2	-.00048	.00373	-.00619	.00285	-.00001	.00005	.01647	-.00001	.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00042**	**.00030**	**-.00011**	**-.01892**	**.00021**	**-.00368**	**.00020**	**-.00005**	**.00582**
Stddev	.00023	.00016	.00101	.00145	.00022	.00275	.00010	.00018	.00166
%RSD	54.705	52.866	950.33	7.6632	101.81	74.564	48.374	377.44	28.451
#1	.00058	.00019	-.00082	-.01994	.00006	-.00563	.00027	.00008	.00700
#2	.00026	.00041	.00061	-.01789	.00036	-.00174	.00013	-.00017	.00465
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00013**	**.00041**	**.0039**	**-.00150**	**.00422**	**.00338**	**.00004**	**.00004**	**.00051**
Stddev	.00023	.00105	.0069	.00064	.00373	.00308	.00022	.00004	.00022
%RSD	173.03	255.26	179.8	42.825	88.265	91.191	609.01	105.30	42.310
#1	.00003	.00116	.0088	-.00196	.00686	.00556	.00019	.00007	.00036
#2	-.00029	-.00033	-.0010	-.00105	.00159	.00120	-.00012	.00001	.00066
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00433**	**.00006**	**.00067**
Stddev	.00574	.00024	.00071
%RSD	132.63	384.62	106.80
#1	-.00838	-.00011	.00016
#2	-.00027	.00023	.00117
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1697.5**	**1150.2**	**34288.**	**10653.**
Stddev	11.3	10.7	173.	10.
%RSD	.66575	.92793	.50464	.09251
#1	1689.5	1142.7	34165.	10660.
#2	1705.5	1157.8	34410.	10646.
Check ?	None	None	None	None
Value				
Range				

Sample Name: mb 480-210509/1-a Acquired: 10/30/2014 3:46:21 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00050**	**.00231**	**-.00298**	**.00276**	**.00037**	**.00002**	**.04654**	**.00006**	**-.00017**
Stddev	.00077	.00959	.00088	.00012	.00000	.00002	.00044	.00017	.00003
%RSD	155.66	416.07	29.723	4.2106	1.1376	87.248	.93853	267.35	15.282
#1	.00104	-.00448	-.00235	.00284	.00037	.00004	.04685	.00018	-.00015
#2	-.00005	.00909	-.00360	.00268	.00037	.00001	.04623	-.00006	-.00018
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00078**	**.00041**	**.00396**	**.01094**	**.00070**	**.00015**	**.00014**	**-.00003**	**.02546**
Stddev	.00057	.00031	.00138	.01378	.00042	.00796	.00002	.00019	.00141
%RSD	72.948	74.451	34.847	126.02	59.057	5292.9	17.993	618.55	5.5550
#1	.00038	.00019	.00298	.02068	.00100	-.00548	.00012	-.00017	.02646
#2	.00118	.00063	.00494	.00119	.00041	.00578	.00015	.00010	.02446
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00075**	**.00081**	F **.0067**	**-.00022**	**.00901**	**.16726**	F **.03876**	**.00025**	**.00067**
Stddev	.00032	.00007	.0016	.00116	.00345	.00027	.00026	.00001	.00020
%RSD	42.092	8.1386	23.81	523.09	38.229	.16336	.66158	3.3102	30.114
#1	-.00053	.00086	.0056	-.00105	.01145	.16745	.03894	.00025	.00081
#2	-.00097	.00076	.0078	.00060	.00658	.16707	.03858	.00026	.00053
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			.0030				.01000		
Low Limit			-.0030				-.01000		

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.00055**	**.00014**	**.00384**
Stddev	.00110	.00002	.00006
%RSD	199.98	13.864	1.6560
#1	.00133	.00015	.00388
#2	-.00023	.00012	.00379
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1669.8**	**1102.8**	**33979.**	**10629.**
Stddev	17.7	10.6	160.	32.
%RSD	1.0623	.95907	.46951	.29840
#1	1657.3	1095.3	33866.	10607.
#2	1682.4	1110.3	34092.	10652.
Check ?	None	None	None	None
Value				
Range				

Sample Name: lcssrm 480-210509/2- Acquired: 10/30/2014 3:49:14 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.39307**	**67.548**	**1.2775**	**1.0613**	**2.1807**	**1.1031**	**50.768**	**1.2681**	**.61729**
Stddev	.00244	1.164	.0023	.0017	.0363	.0200	1.030	.0031	.00147
%RSD	.62037	1.7230	.18304	.15700	1.6635	1.8121	2.0295	.24506	.23867
#1	.39135	68.371	1.2792	1.0625	2.2063	1.1172	51.496	1.2703	.61833
#2	.39479	66.725	1.2759	1.0601	2.1550	1.0889	50.039	1.2659	.61625
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.97869**	**.58597**	**87.678**	**24.752**	**.06399**	**29.597**	**4.6436**	**.69819**	**6.1616**
Stddev	.01099	.00629	1.448	.497	.00084	.172	.0253	.00415	.1047
%RSD	1.1226	1.0731	1.6516	2.0080	1.3112	.58087	.54571	.59442	1.6997
#1	.97092	.58153	88.702	25.103	.06459	29.475	4.6257	.70113	6.2356
#2	.98646	.59042	86.654	24.400	.06340	29.718	4.6615	.69526	6.0875
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.7963**	**2.1801**	**1.840**	**.74209**	**1.3643**	**21.508**	**.98856**	**.91246**	**2.7128**
Stddev	.0089	.0118	.014	.00120	.0120	.427	.00358	.01719	.0163
%RSD	.31635	.54217	.7537	.16143	.87561	1.9855	.36195	1.8838	.59994
#1	2.8025	2.1885	1.849	.74294	1.3728	21.809	.99109	.92461	2.7013
#2	2.7900	2.1717	1.830	.74125	1.3559	21.206	.98603	.90030	2.7244
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**2.2996**	F **.96837**	F **2.5578**
Stddev	.0084	.00949	.0321
%RSD	.36674	.98017	1.2571
#1	2.3055	.96165	2.5350
#2	2.2936	.97508	2.5805
Check ?	Chk Pass	Chk Fail	Chk Fail
High Limit		1.2900	2.7000
Low Limit		1.5300	3.9300

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1457.2**	**1150.5**	**34209.**	**11565.**
Stddev	4.9	3.0	48.	200.
%RSD	.33509	.25771	.13973	1.7313
#1	1453.7	1148.4	34242.	11423.
#2	1460.7	1152.6	34175.	11706.
Check ?	None	None	None	None
Value				
Range				

Sample Name: lcdsrm 480-210509/3- Acquired: 10/30/2014 3:51:56 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.42512**	**74.363**	**1.3764**	**1.1499**	**2.3315**	**1.2038**	**57.149**	**1.3831**	**.67461**
Stddev	.00148	.414	.0013	.0063	.0284	.0148	.588	.0067	.00128
%RSD	.34711	.55658	.09547	.54718	1.2184	1.2273	1.0286	.48699	.18912
#1	.42617	74.656	1.3773	1.1544	2.3516	1.2142	57.565	1.3878	.67551
#2	.42408	74.070	1.3755	1.1455	2.3114	1.1933	56.733	1.3783	.67371
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.0716**	**.65329**	**96.924**	**27.011**	**.06897**	**31.500**	**4.9832**	**.76357**	**6.8141**
Stddev	.0076	.00027	1.216	.325	.00096	.053	.0309	.00228	.0329
%RSD	.71139	.04164	1.2543	1.2033	1.3932	.16806	.61930	.29909	.48345
#1	1.0769	.65309	97.783	27.240	.06965	31.538	5.0050	.76518	6.8374
#2	1.0662	.65348	96.064	26.781	.06829	31.463	4.9614	.76195	6.7908
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.0463**	**2.3948**	**2.032**	**.81288**	**1.4821**	**20.599**	**1.0680**	**.99893**	**2.9129**
Stddev	.0153	.0144	.025	.00294	.0121	.072	.0056	.01017	.0037
%RSD	.50365	.59955	1.248	.36227	.81302	.34873	.52541	1.0178	.12782
#1	3.0572	2.4050	2.050	.81496	1.4906	20.650	1.0720	1.0061	2.9155
#2	3.0355	2.3847	2.014	.81080	1.4736	20.548	1.0641	.99175	2.9102
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**2.4604**	F **1.0654**	F **2.7777**
Stddev	.0096	.0055	.0339
%RSD	.39052	.51266	1.2192
#1	2.4672	1.0692	2.8016
#2	2.4536	1.0615	2.7537
Check ?	Chk Pass	Chk Fail	Chk Fail
High Limit		1.2900	2.7000
Low Limit		1.5300	3.9300

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1438.8**	**1142.1**	**33997.**	**11384.**
Stddev	7.7	7.4	160.	123.
%RSD	.53577	.65181	.47135	1.0828
#1	1433.3	1136.8	33884.	11297.
#2	1444.2	1147.4	34111.	11471.
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-70110-b-1-b Acquired: 10/30/2014 3:54:39 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00079**	**.55577**	**-.00153**	**.00844**	**.05093**	**.00024**	**4.7472**	**.00035**	**.00063**
Stddev	.00003	.00453	.00039	.00094	.00042	.00002	.0152	.00023	.00010
%RSD	3.8773	.81468	25.805	11.134	.82799	7.8383	.31961	64.181	15.777
#1	.00077	.55257	-.00181	.00911	.05063	.00025	4.7579	.00051	.00070
#2	.00081	.55897	-.00125	.00778	.05122	.00022	4.7365	.00019	.00056
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00364**	**.21410**	**1.8643**	**.52031**	**.00086**	**.63235**	**.02449**	**.00238**	**.70037**
Stddev	.00045	.00063	.0028	.01040	.00018	.00391	.00055	.00004	.00176
%RSD	12.329	.29287	.14851	1.9985	20.760	.61760	2.2598	1.7668	.25127
#1	.00396	.21455	1.8663	.51296	.00098	.62959	.02410	.00235	.70162
#2	.00332	.21366	1.8623	.52766	.00073	.63512	.02489	.00240	.69913
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00274**	**.00585**	**2.759**	**.00071**	**.00015**	**.57555**	**.04053**	**.01252**	**.02364**
Stddev	.00026	.00084	.018	.00129	.00730	.02808	.00060	.00008	.00077
%RSD	9.6538	14.318	.6643	182.42	4842.6	4.8791	1.4729	.65712	3.2594
#1	.00293	.00644	2.772	.00162	.00531	.59540	.04011	.01246	.02309
#2	.00255	.00526	2.746	-.00021	-.00501	.55569	.04095	.01258	.02418
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00594**	**.00128**	**.17971**
Stddev	.00116	.00039	.00046
%RSD	19.472	30.658	.25776
#1	-.00512	.00100	.17938
#2	-.00676	.00156	.18003
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1666.6**	**1113.6**	**34063.**	**10860.**
Stddev	7.9	1.6	41.	58.
%RSD	.47318	.14607	.12052	.53828
#1	1661.1	1112.4	34034.	10819.
#2	1672.2	1114.7	34092.	10901.
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-69918-d-1-e Acquired: 10/30/2014 3:57:30 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	W **-.00302**	**28.916**	**.02166**	**.01121**	**.10342**	**.00098**	**10.645**	**.00046**	**.01311**
Stddev	.00048	.026	.00214	.00005	.00003	.00002	.011	.00006	.00008
%RSD	16.036	.09014	9.9021	.48487	.02569	2.2595	.10386	12.449	.64099
#1	-.00268	28.897	.02318	.01117	.10344	.00097	10.637	.00051	.01317
#2	-.00336	28.934	.02014	.01124	.10340	.00100	10.653	.00042	.01305
Check ?	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	2.0000								
Low Limit	-.00300								

Elem	Cr2677	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02770**	**.03234**	**45.579**	**2.2162**	**.03566**	**5.6095**	**1.0932**	**.00183**	**.35689**
Stddev	.00008	.00004	.076	.0296	.00028	.0018	.0012	.00026	.00387
%RSD	.30666	.12421	.16728	1.3342	.78853	.03217	.11263	14.291	1.0850
#1	.02776	.03231	45.525	2.1953	.03586	5.6108	1.0941	.00201	.35963
#2	.02764	.03236	45.633	2.2371	.03546	5.6082	1.0924	.00164	.35415
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01807**	**.09296**	**1.106**	**.00106**	**-.00020**	**9.9526**	**.03542**	**.03971**	**1.9119**
Stddev	.00063	.00004	.010	.00075	.00594	.0567	.00021	.00006	.0062
%RSD	3.4618	.04143	.9181	71.094	2934.1	.56974	.60219	.15334	.32474
#1	.01763	.09299	1.113	.00052	.00400	9.9927	.03557	.03967	1.9162
#2	.01851	.09293	1.099	.00159	-.00440	9.9126	.03526	.03976	1.9075
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00897**	**.06259**	**.17018**
Stddev	.00316	.00018	.00066
%RSD	35.264	.29176	.38892
#1	-.00674	.06272	.17065
#2	-.01121	.06246	.16971
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1583.0**	**1186.3**	**35756.**	**11501.**
Stddev	3.7	.8	48.	31.
%RSD	.23676	.06410	.13339	.26520
#1	1580.3	1185.8	35723.	11523.
#2	1585.6	1186.9	35790.	11480.
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-70054-a-2-a Acquired: 10/30/2014 4:00:15 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00053**	**3.9860**	**.24823**	**.28872**	F **10.733**	**.00011**	**45.990**	**.00907**	**.05043**
Stddev	.00024	.0266	.00068	.00144	.148	.00001	.381	.00038	.00035
%RSD	44.942	.66643	.27528	.50037	1.3773	5.4839	.82898	4.1626	.68797
#1	-.00036	4.0048	.24775	.28974	10.838	.00010	46.260	.00880	.05019
#2	-.00070	3.9672	.24871	.28770	10.629	.00011	45.720	.00933	.05068
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					9.0000				
Low Limit					-.00200				

Elem	Cr2677	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.79840**	**2.0385**	**274.75**	**.98442**	**.02688**	**5.2976**	**4.4315**	**1.4588**	**1.7748**
Stddev	.00779	.0469	1.75	.00242	.00031	.1105	.0467	.0038	.0084
%RSD	.97545	2.3004	.63633	.24601	1.1367	2.0849	1.0538	.26329	.47543
#1	.80391	2.0717	275.98	.98271	.02667	5.3757	4.4645	1.4615	1.7688
#2	.79290	2.0053	273.51	.98613	.02710	5.2195	4.3985	1.4561	1.7808
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.45239**	**3.7328**	**49.01**	**.18409**	**.00294**	**6.5449**	**.13020**	**.26074**	**.79858**
Stddev	.00389	.0006	.14	.00105	.00030	.0222	.00008	.00053	.01553
%RSD	.86048	.01609	.2795	.57094	10.305	.33856	.05969	.20140	1.9441
#1	.44964	3.7333	49.11	.18483	.00273	6.5605	.13026	.26037	.80956
#2	.45515	3.7324	48.92	.18334	.00315	6.5292	.13015	.26111	.78760
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.01322**	**.04683**	**2.6615**
Stddev	.00079	.00050	.0060
%RSD	5.9478	1.0653	.22583
#1	-.01377	.04719	2.6572
#2	-.01266	.04648	2.6657
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1494.9**	**1056.3**	**31904.**	**10717.**
Stddev	4.1	5.5	409.	74.
%RSD	.27757	.52395	1.2820	.68832
#1	1492.0	1052.4	31615.	10665.
#2	1497.9	1060.3	32193.	10770.
Check ?	None	None	None	None
Value				
Range				

Sample Name: CCV-2388838 Acquired: 10/30/2014 4:03:08 Type: QC
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.54005**	**26.960**	**.51529**	**.51011**	**.50936**	**.50835**	**26.295**	**.51670**	**.51317**	**.52932**	**.52131**	**25.639**	**25.726**	**.51675**
Stddev	.00201	.094	.00223	.00008	.00113	.00182	.165	.00076	.00060	.00137	.00182	.141	.017	.00012
%RSD	.37224	.34818	.43190	.01567	.22279	.35865	.62729	.14686	.11635	.25870	.34827	.55173	.06451	.02404
#1	.53863	26.894	.51686	.51017	.50856	.50706	26.178	.51616	.51275	.53029	.52260	25.539	25.714	.51683
#2	.54148	27.027	.51372	.51006	.51016	.50963	26.411	.51723	.51359	.52835	.52003	25.739	25.737	.51666
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value														
Range														

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**26.318**	**.53391**	**.52373**	**26.018**	**.51780**	**.51870**	**25.66**	**.52021**	**.51583**	**26.648**	**.51650**	**.52374**	**.53398**	**.51464**
Stddev	.055	.00095	.00013	.062	.00190	.00003	.05	.00007	.00124	.178	.00154	.00212	.00083	.00117
%RSD	.20736	.17743	.02562	.23712	.36759	.00514	.2036	.01422	.23953	.66620	.29773	.40440	.15462	.22711
#1	26.279	.53324	.52364	25.974	.51914	.51872	25.70	.52016	.51496	26.522	.51758	.52224	.53340	.51546
#2	26.356	.53458	.52383	26.061	.51645	.51868	25.62	.52027	.51671	26.773	.51541	.52524	.53456	.51381
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value														
Range														

Elem	V_2924	Zn2062
Units	ppm	ppm
Avg	**.52489**	**.54013**
Stddev	.00036	.00101
%RSD	.06856	.18616
#1	.52464	.53942
#2	.52515	.54084
Check ?	Chk Pass	Chk Pass
Value		
Range		

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1529.8**	**1131.3**	**33263.**	**10702.**
Stddev	2.1	.7	25.	31.
%RSD	.13758	.06061	.07491	.28504
#1	1528.3	1130.8	33281.	10724.
#2	1531.3	1131.8	33246.	10681.

Sample Name: CCB-2388837 Acquired: 10/30/2014 4:05:52 Type: QC
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00071**	**.00278**	**-.00236**	**.00271**	**.00017**	**.00007**	**.00302**	**.00003**	**.00010**	**.00039**	**-.00014**	**.00549**
Stddev	.00038	.00726	.00098	.00073	.00004	.00001	.00030	.00010	.00014	.00011	.00006	.00063
%RSD	53.660	261.39	41.624	26.774	20.437	15.689	9.8409	389.44	139.02	28.006	46.597	11.419
#1	.00044	.00791	-.00306	.00322	.00015	.00008	.00323	.00010	.00019	.00031	-.00018	.00504
#2	.00098	-.00236	-.00167	.00220	.00020	.00007	.00281	-.00005	.00000	.00047	-.00009	.00593
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit												
Low Limit												

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.01325**	**.00073**	**.00007**	**-.00016**	**.00060**	**.00448**	**.00032**	**.00122**	**-.0026**	**-.00106**	**.00615**	**.00843**
Stddev	.02252	.00017	.00200	.00003	.00028	.00241	.00120	.00101	.0140	.00094	.00100	.00948
%RSD	169.89	23.600	2818.4	19.732	46.125	53.824	374.44	82.395	549.5	88.788	16.245	112.41
#1	.00267	.00061	-.00134	-.00014	.00080	.00278	.00116	.00051	.0074	-.00040	.00685	.00173
#2	-.02918	.00085	.00148	-.00018	.00041	.00619	-.00053	.00193	-.0125	-.00173	.00544	.01514
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit												
Low Limit												

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00044**	**.00009**	**.00045**	**-.00202**	**-.00008**	**-.00013**
Stddev	.00022	.00002	.00045	.00258	.00017	.00121
%RSD	49.048	24.922	100.45	127.47	216.33	905.56
#1	-.00060	.00008	.00077	-.00385	-.00020	.00072
#2	-.00029	.00011	.00013	-.00020	.00004	-.00099
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1733.2**	**1175.8**	**35379.**	**10912.**
Stddev	8.3	4.9	105.	85.
%RSD	.47847	.41347	.29594	.78172
#1	1739.1	1179.3	35305.	10972.
#2	1727.3	1172.4	35453.	10851.

Sample Name: CCVL-2388843 Acquired: 10/30/2014 4:08:47 Type: QC
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00678**	**.19942**	**.01504**	**.02211**	**.00219**	**.00204**	**.49389**	**.00184**	**.00384**	**.00422**	**.00867**	**.05125**
Stddev	.00009	.00561	.00289	.00029	.00001	.00004	.00085	.00009	.00005	.00016	.00006	.00186
%RSD	1.3410	2.8117	19.241	1.3148	.36271	2.1541	.17173	4.8205	1.1820	3.7672	.65521	3.6247
#1	.00684	.19546	.01708	.02190	.00218	.00207	.49329	.00177	.00380	.00433	.00863	.05256
#2	.00671	.20339	.01299	.02231	.00220	.00201	.49449	.00190	.00387	.00411	.00871	.04994
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value												
Range												

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.46371**	**.02885**	**.20331**	**.00289**	**.01034**	**.97171**	**.00943**	**.01094**	**.1864**	**.01910**	**.02877**	**.49514**
Stddev	.00156	.00033	.00674	.00016	.00000	.00642	.00013	.00004	.0047	.00190	.00290	.00039
%RSD	.33731	1.1389	3.3163	5.4620	.03088	.66100	1.3440	.32726	2.501	9.9450	10.066	.07943
#1	.46261	.02909	.19855	.00278	.01034	.97625	.00934	.01092	.1897	.02044	.03082	.49486
#2	.46482	.02862	.20808	.00301	.01034	.96717	.00952	.01097	.1831	.01776	.02672	.49542
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value												
Range												

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00847**	**.00497**	**.00566**	**.01828**	**.00459**	**.01068**
Stddev	.00011	.00006	.00006	.00080	.00017	.00009
%RSD	1.3304	1.1082	1.1111	4.3700	3.7336	.82751
#1	.00839	.00501	.00562	.01884	.00471	.01061
#2	.00855	.00493	.00570	.01771	.00447	.01074
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1721.2**	**1179.3**	**35131.**	**10899.**
Stddev	1.7	1.9	56.	12.
%RSD	.09760	.16351	.16072	.10691
#1	1720.0	1177.9	35091.	10907.
#2	1722.4	1180.6	35171.	10891.

Sample Name: 480-70101-b-1-c Acquired: 10/30/2014 4:11:38 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00138**	**95.616**	**.04383**	**.19446**	**.40957**	**.00318**	**829.86**	**.00064**	**.05136**
Stddev	.00024	.574	.00627	.00116	.00051	.00003	5.88	.00012	.00013
%RSD	17.709	.60024	14.316	.59584	.12337	.88503	.70882	19.193	.25058
#1	-.00121	96.022	.04826	.19528	.40993	.00316	825.70	.00055	.05127
#2	-.00155	95.210	.03939	.19364	.40921	.00320	834.02	.00073	.05145
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.33881**	**.12722**	**89.043**	**5.5974**	**.08521**	**57.733**	**1.2859**	**.09352**	**1.5866**
Stddev	.00027	.00046	.701	.0131	.00088	.287	.0099	.00006	.0082
%RSD	.08101	.35950	.78772	.23452	1.0350	.49796	.76692	.06481	.51626
#1	.33900	.12690	88.547	5.6067	.08583	57.937	1.2929	.09356	1.5924
#2	.33861	.12754	89.539	5.5881	.08458	57.530	1.2790	.09348	1.5808
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.33297**	**.05172**	**17.35**	**.00386**	**.00465**	**126.44**	**.05359**	**.48257**	**3.5885**
Stddev	.00142	.00238	.11	.00073	.00935	.38	.00056	.00098	.0160
%RSD	.42765	4.6108	.6285	18.910	200.92	.30292	1.0366	.20411	.44480
#1	.33196	.05003	17.42	.00438	.01126	126.17	.05398	.48327	3.5998
#2	.33398	.05340	17.27	.00335	-.00196	126.71	.05319	.48187	3.5772
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	F **-.02826**	**.15959**	**.26360**
Stddev	.00203	.00039	.00599
%RSD	7.1843	.24521	2.2721
#1	-.02683	.15931	.26783
#2	-.02970	.15987	.25936
Check ?	Chk Fail	Chk Pass	Chk Pass
High Limit	36.000		
Low Limit	-.02000		

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1214.4**	**1069.2**	**30933.**	**10631.**
Stddev	11.5	11.6	67.	22.
%RSD	.94424	1.0832	.21687	.20414
#1	1206.3	1061.0	30886.	10646.
#2	1222.5	1077.4	30981.	10616.
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-70101-b-2-c Acquired: 10/30/2014 4:14:27 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00118**	**84.525**	**.06761**	**.04969**	**.70373**	**.00412**	**727.20**	**.00072**	**.05248**
Stddev	.00002	.393	.00022	.00028	.00012	.00009	9.53	.00020	.00030
%RSD	1.5249	.46525	.32933	.55601	.01764	2.0650	1.3104	27.152	.56505
#1	-.00119	84.247	.06745	.04950	.70382	.00406	720.46	.00086	.05269
#2	-.00117	84.803	.06777	.04989	.70364	.00418	733.94	.00058	.05227
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2714	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.14293**	**.16204**	**145.18**	**10.184**	**.15074**	**51.925**	**2.8954**	**.01654**	**1.4338**
Stddev	.00049	.00129	1.23	.027	.00000	.127	.0182	.00006	.0059
%RSD	.34158	.79577	.84712	.26336	.00075	.24537	.62857	.35727	.41195
#1	.14258	.16296	144.31	10.165	.15075	51.835	2.8826	.01658	1.4296
#2	.14327	.16113	146.05	10.203	.15074	52.015	2.9083	.01649	1.4380
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.19678**	**.07000**	**26.12**	**-.00061**	**.02152**	**14.137**	**.04973**	**2.8524**	**2.1260**
Stddev	.00043	.00200	.01	.00227	.01641	.053	.00193	.0087	.0099
%RSD	.22095	2.8520	.0423	373.51	76.238	.37327	3.8732	.30518	.46747
#1	.19647	.06859	26.13	.00100	.03313	14.100	.04837	2.8462	2.1190
#2	.19708	.07141	26.11	-.00221	.00992	14.175	.05109	2.8585	2.1331
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	F **-.02042**	**.14026**	**.29145**
Stddev	.00686	.00064	.00253
%RSD	33.580	.45837	.86646
#1	-.02527	.14072	.28966
#2	-.01557	.13981	.29323
Check ?	Chk Fail	Chk Pass	Chk Pass
High Limit	36.000		
Low Limit	-.02000		

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1237.2**	**1082.2**	**31413.**	**10720.**
Stddev	1.0	3.4	22.	49.
%RSD	.08262	.31239	.06924	.45785
#1	1236.5	1079.8	31398.	10755.
#2	1237.9	1084.6	31428.	10685.
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-70091-a-1-a Acquired: 10/30/2014 4:17:22 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00151**	**1.7594**	**-.00052**	**.01106**	**.01108**	**-.00002**	**300.95**	**.00077**	**.01284**
Stddev	.00003	.0604	.00174	.00001	.00010	.00012	.94	.00029	.00012
%RSD	1.7331	3.4355	332.78	.11415	.91806	503.77	.31331	37.182	.96102
#1	-.00153	1.8021	.00071	.01105	.01115	.00006	301.62	.00097	.01292
#2	-.00149	1.7167	-.00176	.01107	.01101	-.00011	300.28	.00057	.01275
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01619**	**.00487**	**.78793**	**.19418**	**.00432**	**1.6884**	**.01645**	**.00353**	**65.343**
Stddev	.00103	.00000	.11097	.00680	.00001	.0069	.00047	.00006	.587
%RSD	6.3620	.05168	14.084	3.5025	.34683	.41075	2.8447	1.6527	.89874
#1	.01692	.00488	.86639	.18937	.00431	1.6933	.01679	.00349	64.928
#2	.01547	.00487	.70946	.19899	.00433	1.6835	.01612	.00357	65.758
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00231**	**.01562**	**22.31**	**-.00178**	**.00692**	**120.24**	**.03978**	**.15241**	**7.3140**
Stddev	.00064	.00145	.31	.00108	.00068	.37	.00111	.00221	.0348
%RSD	27.600	9.3152	1.401	60.590	9.7625	.30725	2.7861	1.4520	.47603
#1	.00186	.01459	22.53	-.00102	.00740	120.50	.03899	.15397	7.2894
#2	.00276	.01665	22.09	-.00254	.00645	119.98	.04056	.15084	7.3386
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.01479**	**.01039**	**.01781**
Stddev	.00883	.00009	.00108
%RSD	59.703	.91045	6.0426
#1	-.02104	.01033	.01705
#2	-.00855	.01046	.01857
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1363.6**	**1022.1**	**30431.**	**10294.**
Stddev	11.8	9.0	97.	12.
%RSD	.86466	.88134	.31740	.11573
#1	1355.3	1015.8	30362.	10303.
#2	1371.9	1028.5	30499.	10286.
Check ?	None	None	None	None
Value				
Range				

Sample Name: 70151-a-1-a@5 Acquired: 10/30/2014 4:20:16 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**2.0084**	**-.00155**	**.00488**	**.03304**	**.00019**	**3.6075**	**.00040**	**.00068**
Stddev	.00007	.0034	.00261	.00008	.00013	.00003	.0318	.00007	.00007
%RSD	171.27	.16876	168.73	1.5598	.40066	15.333	.88084	17.254	9.9693
#1	-.00009	2.0108	-.00339	.00483	.03313	.00017	3.6299	.00045	.00073
#2	.00001	2.0060	.00030	.00493	.03294	.00021	3.5850	.00036	.00063
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00618**	**.00653**	**3.0814**	**.10023**	**.00120**	**.33413**	**.14582**	**.00075**	**.11812**
Stddev	.00081	.00006	.0034	.00667	.00036	.00078	.00070	.00020	.00549
%RSD	13.123	.95117	.11040	6.6513	29.897	.23423	.47707	26.724	4.6461
#1	.00561	.00649	3.0790	.09552	.00094	.33468	.14631	.00061	.12200
#2	.00676	.00658	3.0838	.10495	.00145	.33357	.14533	.00089	.11424
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00301**	**.02414**	**1.022**	**.00168**	**.00165**	**2.1994**	**.00549**	**.00971**	**.08333**
Stddev	.00054	.00203	.004	.00066	.00312	.0477	.00000	.00001	.00128
%RSD	18.125	8.4005	.4273	39.449	188.95	2.1692	.03909	.08800	1.5325
#1	.00339	.02558	1.019	.00121	.00385	2.2332	.00549	.00972	.08424
#2	.00262	.02271	1.025	.00214	-.00055	2.1657	.00549	.00971	.08243
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00371**	**.00876**	**.03880**
Stddev	.00128	.00019	.00013
%RSD	34.417	2.1336	.34163
#1	-.00281	.00889	.03889
#2	-.00462	.00863	.03870
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1716.2**	**1184.7**	**35098.**	**10864.**
Stddev	1.3	.4	127.	14.
%RSD	.07465	.03685	.36169	.12472
#1	1717.1	1185.0	35009.	10874.
#2	1715.3	1184.4	35188.	10854.
Check ?	None	None	None	None
Value				
Range				

Sample Name: 70151-a-1-aSD@25 Acquired: 10/30/2014 4:23:06 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00016**	**.38967**	**.00155**	**.00215**	**.00661**	**.00005**	**.70204**	**-.00008**	**.00017**
Stddev	.00018	.00261	.00129	.00007	.00001	.00002	.00565	.00009	.00016
%RSD	116.69	.66911	83.302	3.3238	.12828	38.904	.80458	107.44	91.537
#1	.00003	.38782	.00247	.00220	.00660	.00004	.70603	-.00002	.00006
#2	.00028	.39151	.00064	.00210	.00661	.00007	.69805	-.00014	.00029
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00114**	**.00109**	**.61112**	**.00835**	**.00083**	**.05941**	**.02891**	**.00008**	**.02587**
Stddev	.00021	.00019	.00038	.00304	.00000	.00190	.00023	.00013	.00355
%RSD	18.842	17.065	.06172	36.382	.20011	3.1984	.80130	153.59	13.712
#1	.00129	.00096	.61139	.01049	.00083	.06075	.02875	-.00001	.02838
#2	.00098	.00122	.61085	.00620	.00084	.05807	.02908	.00017	.02336
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00052**	**.00531**	**.1935**	**-.00091**	**.00187**	**.44980**	**.00103**	**.00203**	**.01778**
Stddev	.00036	.00091	.0010	.00017	.00523	.01627	.00004	.00019	.00008
%RSD	68.344	17.216	.5349	18.426	279.36	3.6166	3.9745	9.4593	.42403
#1	.00027	.00467	.1928	-.00079	.00557	.46131	.00100	.00216	.01773
#2	.00077	.00596	.1942	-.00103	-.00183	.43830	.00106	.00189	.01784
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.00011**	**.00173**	**.00826**
Stddev	.00224	.00010	.00031
%RSD	2073.3	5.9830	3.7688
#1	-.00147	.00166	.00804
#2	.00169	.00180	.00848
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1725.9**	**1183.1**	**35327.**	**10882.**
Stddev	2.1	2.3	63.	23.
%RSD	.12206	.19753	.17939	.20801
#1	1724.4	1181.5	35371.	10866.
#2	1727.4	1184.8	35282.	10898.
Check ?	None	None	None	None
Value				
Range				

Sample Name: 70151-a-1-aPDS@5 Acquired: 10/30/2014 4:25:58 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.10416**	**21.672**	**.39742**	**.39022**	**.43341**	**.39488**	**22.801**	**.39357**	**.39773**
Stddev	.00020	.057	.00437	.00130	.00114	.00019	.172	.00100	.00129
%RSD	.19458	.26277	1.1005	.33253	.26223	.04778	.75628	.25458	.32312
#1	.10402	21.712	.39432	.39113	.43260	.39475	22.923	.39428	.39863
#2	.10430	21.632	.40051	.38930	.43421	.39502	22.679	.39286	.39682
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.40854**	**.40955**	**22.511**	**19.330**	**.38109**	**21.129**	**.54691**	**.40005**	**19.399**
Stddev	.00043	.00150	.070	.030	.00099	.001	.00036	.00137	.013
%RSD	.10493	.36605	.30984	.15507	.25899	.00368	.06548	.34341	.06667
#1	.40885	.40849	22.560	19.309	.38040	21.128	.54716	.39908	19.408
#2	.40824	.41061	22.462	19.351	.38179	21.129	.54666	.40102	19.389
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.39386**	**.42662**	**1.019**	**.38770**	**.38890**	**2.0627**	**.00641**	**.39749**	**.48080**
Stddev	.00041	.00005	.002	.00225	.00228	.0380	.00012	.00157	.00113
%RSD	.10407	.01108	.1982	.58047	.58619	1.8416	1.8041	.39588	.23500
#1	.39415	.42658	1.020	.38611	.39051	2.0358	.00633	.39638	.48000
#2	.39357	.42665	1.018	.38929	.38729	2.0895	.00649	.39861	.48160
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.39967**	**.42149**	**.45551**
Stddev	.00839	.00067	.00581
%RSD	2.0982	.15868	1.2748
#1	.40560	.42102	.45141
#2	.39374	.42197	.45962
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1548.9**	**1145.4**	**33224.**	**10743.**
Stddev	1.9	.4	106.	30.
%RSD	.12130	.03322	.31776	.28296
#1	1550.3	1145.7	33299.	10721.
#2	1547.6	1145.2	33149.	10764.
Check ?	None	None	None	None
Value				
Range				

Sample Name: 70151-a-1-b ms@5 Acquired: 10/30/2014 4:28:46 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01398**	**6.0137**	**.05129**	**.05713**	**.09357**	**.05152**	**6.5588**	**.05143**	**.05188**
Stddev	.00087	.0446	.00148	.00007	.00012	.00004	.0165	.00001	.00008
%RSD	6.2154	.74111	2.8773	.12727	.12310	.08471	.25178	.02389	.14861
#1	.01460	6.0453	.05024	.05707	.09365	.05155	6.5704	.05142	.05183
#2	.01337	5.9822	.05233	.05718	.09348	.05149	6.5471	.05143	.05194
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.06833**	**.06082**	**6.5158**	**2.9430**	**.05220**	**3.1121**	**.20946**	**.05479**	**2.7147**
Stddev	.00025	.00037	.0121	.0314	.00037	.0078	.00040	.00033	.0002
%RSD	.37194	.60689	.18498	1.0667	.70589	.24931	.19037	.59505	.00871
#1	.06815	.06056	6.5244	2.9652	.05246	3.1175	.20974	.05502	2.7148
#2	.06851	.06108	6.5073	2.9208	.05194	3.1066	.20918	.05456	2.7145
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05479**	**.09401**	**3.711**	**.04965**	**.05277**	**4.8481**	**.05697**	**.06319**	**.17472**
Stddev	.00022	.00017	.019	.00111	.00943	.0202	.00121	.00030	.00057
%RSD	.40749	.18497	.5052	2.2259	17.874	.41658	2.1305	.47558	.32383
#1	.05495	.09389	3.698	.05043	.04610	4.8624	.05611	.06340	.17512
#2	.05463	.09413	3.725	.04887	.05944	4.8338	.05782	.06298	.17432
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.05286**	**.06679**	**.09586**
Stddev	.00302	.00024	.00088
%RSD	5.7064	.36225	.92153
#1	.05499	.06696	.09524
#2	.05072	.06662	.09649
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1661.1**	**1169.2**	**34570.**	**10713.**
Stddev	.9	2.8	24.	37.
%RSD	.05144	.24241	.06910	.34295
#1	1661.7	1171.2	34553.	10687.
#2	1660.5	1167.2	34587.	10739.
Check ?	None	None	None	None
Value				
Range				

Sample Name: 70151-a-1-c msd@5 Acquired: 10/30/2014 4:31:32 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01733**	**6.7676**	**.06549**	**.07306**	**.11002**	**.06656**	**7.8306**	**.06605**	**.06662**
Stddev	.00063	.0013	.00001	.00058	.00011	.00009	.0503	.00025	.00041
%RSD	3.6091	.01923	.01642	.79285	.10140	.14182	.64290	.37999	.62181
#1	.01688	6.7685	.06550	.07265	.10994	.06663	7.8662	.06588	.06691
#2	.01777	6.7666	.06549	.07347	.11009	.06649	7.7950	.06623	.06633
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.08341**	**.07825**	**7.3057**	**3.6641**	**.06679**	**3.9174**	**.23276**	**.07022**	**3.4875**
Stddev	.00049	.00097	.0061	.0242	.00013	.0093	.00159	.00050	.0076
%RSD	.58551	1.2412	.08307	.65911	.18831	.23818	.68121	.71101	.21682
#1	.08307	.07757	7.3014	3.6470	.06670	3.9240	.23388	.07058	3.4821
#2	.08376	.07894	7.3100	3.6812	.06688	3.9108	.23164	.06987	3.4928
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.06802**	**.11523**	**4.631**	**.06662**	**.06718**	**7.2218**	**.07039**	**.07993**	**.19732**
Stddev	.00025	.00094	.019	.00215	.00077	.0547	.00042	.00004	.00013
%RSD	.37367	.81837	.4045	3.2276	1.1428	.75719	.60351	.05238	.06492
#1	.06820	.11456	4.644	.06510	.06663	7.1831	.07009	.07996	.19741
#2	.06784	.11589	4.617	.06814	.06772	7.2605	.07069	.07990	.19723
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.06593**	**.08588**	**.10883**
Stddev	.00272	.00018	.00058
%RSD	4.1240	.20513	.52921
#1	.06401	.08600	.10842
#2	.06786	.08575	.10924
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1644.6**	**1156.8**	**34194.**	**10765.**
Stddev	.0	1.7	21.	11.
%RSD	.00015	.15105	.06145	.09943
#1	1644.6	1155.6	34209.	10758.
#2	1644.6	1158.0	34180.	10773.
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-70151-a-2-a@5 Acquired: 10/30/2014 4:34:17 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00041**	**2.0967**	**-.00107**	**.00550**	**.03403**	**.00022**	**3.3297**	**.00050**	**.00065**
Stddev	.00096	.0307	.00022	.00024	.00003	.00000	.0055	.00004	.00017
%RSD	233.22	1.4636	20.661	4.3997	.10103	1.4810	.16363	8.8213	26.778
#1	-.00027	2.1184	-.00123	.00533	.03401	.00022	3.3336	.00047	.00077
#2	.00109	2.0750	-.00092	.00567	.03405	.00023	3.3259	.00053	.00053
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01072**	**.00998**	**3.2288**	**.14504**	**.00077**	**.34836**	**.12876**	**.00132**	**.11603**
Stddev	.00092	.00001	.0117	.02524	.00060	.00072	.00020	.00025	.00237
%RSD	8.5581	.07649	.36235	17.401	78.259	.20635	.15352	18.979	2.0409
#1	.01137	.00997	3.2370	.16289	.00120	.34887	.12890	.00150	.11436
#2	.01007	.00998	3.2205	.12720	.00034	.34785	.12862	.00114	.11770
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00253**	**.03670**	**1.053**	**-.00042**	**.00766**	**2.9032**	**.00654**	**.00951**	**.10413**
Stddev	.00013	.00179	.007	.00152	.00464	.0002	.00080	.00008	.00017
%RSD	4.9955	4.8643	.6900	360.93	60.620	.00759	12.189	.84437	.16275
#1	.00244	.03544	1.058	-.00150	.00438	2.9030	.00598	.00957	.10401
#2	.00262	.03797	1.047	.00065	.01094	2.9033	.00711	.00945	.10425
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00498**	**.01023**	**.04353**
Stddev	.00077	.00044	.00036
%RSD	15.495	4.3273	.82648
#1	-.00444	.01054	.04328
#2	-.00553	.00991	.04379
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1705.1**	**1174.9**	**34977.**	**10828.**
Stddev	1.5	2.1	116.	26.
%RSD	.08509	.18234	.33275	.23689
#1	1706.2	1176.4	34895.	10810.
#2	1704.1	1173.4	35059.	10846.
Check ?	None	None	None	None
Value				
Range				

Sample Name: CCV-2388838 Acquired: 10/30/2014 4:37:09 Type: QC
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.54227**	**26.782**	**.51608**	**.50548**	**.51222**	**.51142**	**26.133**	**.51758**	**.51564**	**.52933**	**.51768**	**25.779**	**25.795**	**.51058**
Stddev	.00032	.012	.00091	.00147	.00145	.00039	.041	.00002	.00045	.00379	.00580	.088	.031	.00191
%RSD	.05911	.04360	.17654	.29063	.28302	.07548	.15528	.00403	.08722	.71539	1.1203	.34107	.11978	.37496
#1	.54204	26.791	.51543	.50652	.51325	.51170	26.161	.51760	.51596	.52665	.51358	25.841	25.817	.50923
#2	.54250	26.774	.51672	.50444	.51120	.51115	26.104	.51757	.51532	.53201	.52178	25.717	25.773	.51194
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value														
Range														

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**26.485**	**.53215**	**.52410**	**25.718**	**.52040**	**.52183**	**25.64**	**.51309**	**.49989**	**26.503**	**.52045**	**.52277**	**.53419**	**.50834**
Stddev	.069	.00023	.00098	.031	.00061	.00063	.01	.00077	.00447	.058	.00195	.00046	.00202	.00836
%RSD	.26128	.04240	.18672	.12082	.11751	.11985	.0376	.15063	.89338	.21739	.37416	.08712	.37740	1.6448
#1	26.436	.53231	.52479	25.696	.51997	.52139	25.63	.51254	.49673	26.462	.51907	.52245	.53277	.51425
#2	26.534	.53199	.52341	25.740	.52083	.52227	25.64	.51363	.50305	26.544	.52182	.52310	.53562	.50242
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value														
Range														

Elem	V_2924	Zn2062
Units	ppm	ppm
Avg	**.52150**	**.54435**
Stddev	.00462	.00001
%RSD	.88663	.00256
#1	.51823	.54436
#2	.52477	.54434
Check ?	Chk Pass	Chk Pass
Value		
Range		

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1523.6**	**1134.5**	**33133.**	**10577.**
Stddev	.4	3.3	152.	55.
%RSD	.02586	.29068	.45729	.51897
#1	1523.9	1132.1	33240.	10538.
#2	1523.4	1136.8	33026.	10615.

Sample Name: CCB-2388837 Acquired: 10/30/2014 4:39:53 Type: QC
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00027**	**-.00074**	**.00163**	**.00222**	**.00009**	**.00001**	**-.00093**	**-.00018**	**.00010**	**.00041**	**-.00023**	**.00072**
Stddev	.00036	.00424	.00268	.00099	.00007	.00001	.00141	.00004	.00015	.00006	.00005	.00057
%RSD	130.16	576.91	163.97	44.866	78.413	54.564	151.95	25.208	143.01	13.868	21.465	78.495
#1	-.00002	-.00373	-.00026	.00292	.00014	.00002	.00007	-.00015	.00020	.00045	-.00027	.00032
#2	-.00052	.00226	.00352	.00151	.00004	.00001	-.00192	-.00021	-.00000	.00037	-.00020	.00112
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit												
Low Limit												

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00155**	**.00011**	**-.00115**	**-.00024**	**-.00008**	**.00295**	**-.00009**	**.00266**	**-.0097**	**-.00058**	**.00058**	**.00984**
Stddev	.01101	.00040	.00618	.00011	.00005	.00117	.00034	.00018	.0106	.00123	.00149	.01138
%RSD	710.39	357.12	535.93	44.876	71.643	39.613	356.44	6.8496	109.1	214.11	258.19	115.68
#1	-.00933	.00039	.00322	-.00032	-.00011	.00378	-.00033	.00279	-.0022	.00030	-.00048	.01789
#2	.00623	-.00017	-.00552	-.00016	-.00004	.00213	.00014	.00253	-.0172	-.00145	.00163	.00179
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit												
Low Limit												

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00097**	**.00002**	**.00076**	**.00201**	**.00005**	**.00087**
Stddev	.00047	.00001	.00006	.00530	.00028	.00048
%RSD	48.298	23.744	7.6835	263.52	609.47	54.778
#1	-.00130	.00003	.00072	-.00174	.00024	.00053
#2	-.00064	.00002	.00081	.00576	-.00015	.00121
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1729.4**	**1177.0**	**34882.**	**10697.**
Stddev	2.1	2.5	4.	25.
%RSD	.12364	.21145	.01104	.23379
#1	1730.9	1178.8	34880.	10680.
#2	1727.9	1175.3	34885.	10715.

Sample Name: CCVL-2388843 Acquired: 10/30/2014 4:42:48 Type: QC
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00595**	W **.27605**	**.01072**	**.02196**	**.00215**	**.00205**	**.50239**	**.00169**	**.00389**	**.00463**	**.00870**
Stddev	.00008	.00342	.00040	.00016	.00001	.00005	.00556	.00001	.00008	.00004	.00004
%RSD	1.3949	1.2373	3.7641	.71879	.61797	2.3893	1.1066	.64319	2.0207	.84111	.45469
#1	.00601	.27364	.01101	.02207	.00214	.00202	.50632	.00170	.00383	.00466	.00867
#2	.00589	.27847	.01044	.02185	.00216	.00209	.49846	.00168	.00394	.00461	.00873
Check ?	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value		.20000									
Range		30.000%									

Elem	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05028**	**.49235**	**.02952**	**.20342**	**.00292**	**.00976**	**.97777**	**.00900**	**.01237**	**.1859**	**.01934**
Stddev	.00233	.00015	.00003	.00033	.00005	.00016	.00153	.00017	.00082	.0001	.00111
%RSD	4.6371	.03042	.08505	.16127	1.7525	1.6492	.15696	1.8851	6.6006	.0588	5.7157
#1	.05193	.49246	.02954	.20365	.00296	.00987	.97886	.00888	.01294	.1858	.02012
#2	.04863	.49225	.02951	.20319	.00288	.00964	.97669	.00912	.01179	.1860	.01856
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value											
Range											

Elem	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02544**	**.51162**	**.00933**	**.00499**	**.00524**	**.01995**	**.00507**	W **.01311**
Stddev	.00327	.00453	.00011	.00003	.00007	.00092	.00042	.00025
%RSD	12.869	.88607	1.1397	.60442	1.3325	4.6169	8.2900	1.9025
#1	.02313	.50841	.00925	.00497	.00519	.01930	.00537	.01329
#2	.02776	.51482	.00940	.00502	.00529	.02060	.00478	.01293
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn
Value								.01000
Range								30.000%

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1717.5**	**1177.0**	**34915.**	**10755.**
Stddev	.6	3.5	38.	21.
%RSD	.03640	.29846	.10846	.19640
#1	1717.1	1179.5	34888.	10740.
#2	1718.0	1174.5	34942.	10770.

Sample Name: 480-70151-a-3-a@5 Acquired: 10/30/2014 4:45:39 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00008**	**.91678**	**-.00083**	**.00259**	**.01525**	**.00023**	**.92729**	**-.00001**	**.00052**
Stddev	.00002	.00202	.00183	.00023	.00010	.00032	.00292	.00002	.00020
%RSD	27.157	.21988	220.32	8.9149	.65865	139.17	.31529	186.40	38.212
#1	-.00006	.91536	-.00212	.00276	.01518	.00000	.92522	-.00002	.00038
#2	-.00010	.91821	.00046	.00243	.01532	.00045	.92935	.00000	.00066
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00401**	**.00200**	**1.4931**	**.08687**	**.00124**	**.15425**	**.03030**	**.00048**	**.04241**
Stddev	.00018	.00007	.0115	.00375	.00002	.00540	.00004	.00024	.01551
%RSD	4.4302	3.4924	.76758	4.3138	1.6378	3.5010	.14768	49.852	36.563
#1	.00388	.00205	1.4850	.08422	.00123	.15044	.03027	.00064	.03145
#2	.00413	.00195	1.5012	.08952	.00126	.15807	.03034	.00031	.05338
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00084**	**.00660**	**.7154**	**.00158**	**-.00708**	**.88987**	**.00630**	**.00439**	**.04467**
Stddev	.00071	.00242	.0072	.00079	.00059	.01161	.00008	.00027	.00070
%RSD	84.344	36.669	1.001	50.084	8.3339	1.3047	1.2174	6.1014	1.5667
#1	.00034	.00489	.7204	.00214	-.00750	.88166	.00635	.00420	.04417
#2	.00135	.00831	.7103	.00102	-.00667	.89808	.00624	.00458	.04516
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00127**	**.00446**	**.01535**
Stddev	.00280	.00051	.00173
%RSD	220.66	11.465	11.299
#1	.00071	.00482	.01412
#2	-.00324	.00410	.01657
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1711.4**	**1168.6**	**34852.**	**10698.**
Stddev	2.5	3.0	116.	22.
%RSD	.14712	.26097	.33421	.20450
#1	1709.6	1166.4	34934.	10683.
#2	1713.2	1170.7	34769.	10714.
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-70151-a-4-a@5 Acquired: 10/30/2014 4:48:30 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00044**	**1.5321**	**.00004**	**.00266**	**.01472**	**.00013**	**.86480**	**-.00001**	**.00068**
Stddev	.00083	.0068	.00371	.00012	.00005	.00001	.00007	.00004	.00012
%RSD	188.22	.44280	8289.1	4.6580	.32634	4.4966	.00811	254.07	17.062
#1	.00103	1.5369	-.00258	.00257	.01476	.00013	.86475	.00001	.00076
#2	-.00015	1.5273	.00267	.00275	.01469	.00014	.86485	-.00004	.00060
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00440**	**.00216**	**2.2106**	**.15075**	**.00143**	**.21622**	**.04176**	**.00044**	**.04788**
Stddev	.00007	.00004	.0009	.00393	.00001	.00269	.00009	.00012	.00533
%RSD	1.5948	1.8558	.03890	2.6102	.62343	1.2446	.22197	27.557	11.131
#1	.00435	.00213	2.2100	.14796	.00142	.21813	.04183	.00035	.05164
#2	.00445	.00219	2.2112	.15353	.00144	.21432	.04170	.00053	.04411
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00151**	**.01144**	**.5974**	**-.00109**	**.00486**	**1.7059**	**.00629**	**.00338**	**.08460**
Stddev	.00060	.00086	.0079	.00150	.00512	.0175	.00004	.00001	.00180
%RSD	39.592	7.4940	1.326	138.24	105.34	1.0253	.63305	.38716	2.1305
#1	.00109	.01204	.6030	-.00002	.00124	1.6935	.00632	.00339	.08588
#2	.00194	.01083	.5918	-.00215	.00848	1.7182	.00626	.00337	.08333
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00079**	**.00649**	**.04439**
Stddev	.00184	.00005	.00073
%RSD	233.09	.77100	1.6523
#1	.00051	.00646	.04491
#2	-.00210	.00653	.04387
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1706.4**	**1168.6**	**34633.**	**10834.**
Stddev	1.5	.8	7.	19.
%RSD	.08935	.07207	.01894	.17313
#1	1707.5	1169.2	34638.	10820.
#2	1705.3	1168.1	34629.	10847.
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-70105-e-6-a Acquired: 10/30/2014 4:51:22 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**.03116**	**.06671**	**.17554**	**.87115**	**.00002**	**22.376**	**-.00004**	**-.00005**
Stddev	.00033	.00384	.00376	.00025	.00238	.00002	.025	.00002	.00001
%RSD	1086.9	12.337	5.6424	.14397	.27374	164.49	.11061	55.664	17.566
#1	-.00020	.02844	.06404	.17537	.86947	-.00000	22.394	-.00006	-.00004
#2	.00027	.03388	.06937	.17572	.87284	.00003	22.359	-.00003	-.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00060**	**.00203**	**1.8217**	**1.1695**	**.01332**	**5.8508**	**.05168**	**.00876**	**76.864**
Stddev	.00020	.00008	.0158	.0180	.00072	.0219	.00018	.00014	.049
%RSD	34.260	3.8222	.86474	1.5385	5.3707	.37359	.34721	1.5575	.06383
#1	.00045	.00209	1.8105	1.1568	.01383	5.8354	.05155	.00886	76.899
#2	.00074	.00198	1.8328	1.1822	.01282	5.8663	.05180	.00867	76.829
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00023**	**-.00007**	**.0108**	**-.00320**	**.00153**	**3.7242**	**-.00038**	**.29170**	**.00049**
Stddev	.00016	.00061	.0084	.00203	.00337	.0176	.00054	.00038	.00001
%RSD	69.407	911.45	78.49	63.608	219.90	.47295	142.86	.12958	2.8240
#1	-.00012	-.00049	.0048	-.00176	-.00085	3.7367	-.00076	.29144	.00048
#2	-.00035	.00036	.0167	-.00464	.00391	3.7118	.00000	.29197	.00050
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00109**	**.00025**	**.00832**
Stddev	.00206	.00005	.00021
%RSD	188.02	19.144	2.4704
#1	-.00255	.00029	.00817
#2	.00036	.00022	.00846
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1538.3**	**1118.2**	**32793.**	**10679.**
Stddev	1.9	.9	54.	.
%RSD	.12534	.08301	.16402	.00437
#1	1539.6	1118.8	32831.	10679.
#2	1536.9	1117.5	32755.	10679.
Check ?	None	None	None	None
Value				
Range				

Sample Name: 480-70105-e-6-b ms Acquired: 10/30/2014 4:54:16 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05380**	**10.244**	**.29951**	**.38200**	**1.1083**	**.19959**	**32.715**	**.20329**	**.20488**
Stddev	.00077	.050	.00717	.00122	.0032	.00052	.369	.00040	.00132
%RSD	1.4381	.49151	2.3930	.31900	.29298	.25901	1.1271	.19486	.64303
#1	.05435	10.280	.29445	.38287	1.1060	.19996	32.976	.20357	.20581
#2	.05326	10.208	.30458	.38114	1.1106	.19923	32.455	.20301	.20395
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na8183
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.20569**	**.20982**	**12.482**	**11.198**	**.20849**	**16.168**	**.26090**	**.21633**	**87.689**
Stddev	.00112	.00145	.060	.011	.00081	.095	.00012	.00127	.038
%RSD	.54669	.69146	.48407	.09734	.38862	.58935	.04616	.58637	.04314
#1	.20649	.21085	12.524	11.190	.20791	16.235	.26098	.21723	87.716
#2	.20490	.20880	12.439	11.206	.20906	16.100	.26081	.21543	87.663
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.20156**	**.20293**	**10.29**	**.20582**	**.20040**	**14.310**	**.19521**	**.49707**	**.20647**
Stddev	.00111	.00260	.01	.00389	.00279	.101	.00096	.00008	.00114
%RSD	.55160	1.2837	.0724	1.8909	1.3936	.70551	.49325	.01701	.55248
#1	.20077	.20477	10.29	.20307	.20237	14.381	.19589	.49713	.20727
#2	.20235	.20109	10.28	.20857	.19843	14.238	.19453	.49701	.20566
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**.20352**	**.21183**	**.22002**
Stddev	.00123	.00193	.00160
%RSD	.60424	.90894	.72714
#1	.20439	.21319	.22115
#2	.20265	.21047	.21889
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1494.8**	**1113.0**	**32441.**	**10625.**
Stddev	1.0	.9	159.	60.
%RSD	.06750	.08274	.48979	.56366
#1	1495.5	1113.6	32328.	10583.
#2	1494.1	1112.3	32553.	10668.
Check ?	None	None	None	None
Value				
Range				

Sample Name: BLANK Acquired: 10/30/2014 4:57:04 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00008**	**.00068**	**-.00048**	**.00158**	**.00005**	**.00009**	**.00252**	**-.00016**	**.00000**
Stddev	.00029	.00005	.00138	.00048	.00001	.00004	.00160	.00005	.00006
%RSD	375.10	7.2631	286.70	30.504	17.006	48.922	63.696	30.434	3679.9
#1	-.00013	.00071	.00050	.00192	.00006	.00012	.00138	-.00020	.00005
#2	.00028	.00064	-.00146	.00124	.00005	.00006	.00365	-.00013	-.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00040**	**-.00031**	**.00062**	**-.03020**	**.00048**	**-.00235**	**.00006**	**.00001**	**.01344**
Stddev	.00063	.00029	.00039	.00948	.00020	.00122	.00008	.00002	.00096
%RSD	157.82	94.683	63.662	31.379	42.495	51.853	136.85	156.86	7.1785
#1	.00085	-.00010	.00034	-.03690	.00062	-.00322	.00012	.00003	.01275
#2	-.00005	-.00051	.00090	-.02350	.00033	-.00149	.00000	-.00000	.01412
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00030**	**.00054**	**-.0122**	**-.00047**	**-.00265**	**.00604**	**-.00002**	**.00007**	**.00063**
Stddev	.00062	.00069	.0124	.00295	.00567	.00201	.00045	.00003	.00008
%RSD	205.11	126.22	101.0	631.63	213.69	33.272	2501.7	43.458	12.307
#1	.00074	.00006	-.0035	.00162	.00136	.00462	.00030	.00005	.00068
#2	-.00014	.00103	-.0210	-.00255	-.00666	.00746	-.00034	.00009	.00058
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00088**	**-.00009**	**.00031**
Stddev	.00215	.00002	.00078
%RSD	244.75	16.673	252.05
#1	.00064	-.00010	-.00024
#2	-.00240	-.00008	.00086
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1707.1**	**1158.3**	**34090.**	**10676.**
Stddev	12.0	10.2	10.	6.
%RSD	.70396	.88475	.02907	.05836
#1	1698.6	1151.0	34097.	10672.
#2	1715.6	1165.5	34083.	10681.
Check ?	None	None	None	None
Value				
Range				

Sample Name: icsa-2359635 Acquired: 10/30/2014 4:59:56 Type: QC
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00148**	**540.96**	**.00849**	**.00543**	**.00017**	**.00001**	**500.48**	**.00041**	**-.00127**	**.00099**	**.00253**	**188.66**
Stddev	.00066	.52	.01114	.00069	.00001	.00004	.33	.00009	.00070	.00014	.00010	.21
%RSD	44.419	.09551	131.27	12.772	8.2232	430.30	.06626	20.706	55.322	14.416	4.0116	.10961
#1	-.00102	541.33	.01637	.00494	.00018	-.00002	500.25	.00035	-.00077	.00089	.00246	188.52
#2	-.00195	540.60	.00061	.00592	.00016	.00004	500.72	.00047	-.00177	.00109	.00260	188.81
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit												
Low Limit												

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.01593**	**.00691**	**493.89**	**.00394**	**-.00251**	**.03667**	**.00954**	**.00056**	**-.0725**	**.00708**	**.00317**	**.04217**
Stddev	.00359	.00039	1.22	.00000	.00028	.01161	.00138	.00171	.0052	.00336	.00737	.00325
%RSD	22.528	5.7048	.24801	.08485	11.331	31.648	14.489	306.29	7.190	47.529	232.27	7.7175
#1	-.01339	.00663	494.76	.00393	-.00231	.02846	.01051	.00177	-.0761	.00470	.00838	.03987
#2	-.01847	.00719	493.03	.00394	-.00271	.04487	.00856	-.00065	-.0688	.00945	-.00204	.04447
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
High Limit												
Low Limit												

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00094**	**.01466**	**.00238**	**-.01897**	**.00428**	**.00628**
Stddev	.00034	.00007	.00054	.01166	.00029	.00069
%RSD	35.856	.50288	22.775	61.456	6.7700	11.051
#1	-.00118	.01461	.00200	-.02721	.00408	.00677
#2	-.00070	.01471	.00276	-.01072	.00449	.00579
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1209.7**	**1037.7**	**29528.**	**10195.**
Stddev	.5	1.4	53.	16.
%RSD	.04180	.13349	.17915	.15251
#1	1210.0	1036.7	29565.	10206.
#2	1209.3	1038.6	29490.	10184.

Sample Name: icsab-2261635 Acquired: 10/30/2014 5:02:52 Type: QC
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **.24159**	**518.85**	**.10827**	**.01233**	**.47141**	**.47920**	**478.99**	**1.0232**	**.50295**	**.49076**	**.56134**	**93.202**
Stddev	.00034	.19	.00962	.00015	.00058	.00043	.95	.0068	.00394	.00185	.00149	.174
%RSD	.14103	.03682	8.8824	1.2316	.12365	.09059	.19818	.66090	.78250	.37599	.26597	.18634
#1	.24135	518.71	.10147	.01244	.47100	.47951	478.31	1.0280	.50573	.48945	.56028	93.325
#2	.24183	518.98	.11507	.01222	.47182	.47889	479.66	1.0185	.50016	.49206	.56240	93.079
Check ?	Chk Fail	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.20000											
Range	20.000%											

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01435**	**.50231**	**481.49**	**.47953**	**.00003**	**.09652**	**.97030**	**.04864**	**.5880**	**.60537**	**.05575**	**1.1548**
Stddev	.01647	.00170	.45	.00014	.00029	.00038	.01249	.00644	.0035	.00929	.01136	.0114
%RSD	114.78	.33817	.09426	.02852	1157.6	.39462	1.2873	13.239	.5932	1.5345	20.381	.98490
#1	.02600	.50111	481.81	.47962	-.00018	.09679	.97913	.04409	.5905	.61194	.06379	1.1467
#2	.00270	.50351	481.17	.47943	.00023	.09625	.96147	.05319	.5856	.59881	.04772	1.1628
Check ?	None	None	Chk Pass	Chk Pass	None	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value												
Range												

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00289**	**.49733**	**.00293**	**.08482**	**.49631**	**.96155**
Stddev	.00160	.00005	.00036	.00279	.00354	.00658
%RSD	55.403	.01031	12.111	3.2922	.71329	.68401
#1	-.00176	.49729	.00318	.08285	.49380	.96620
#2	-.00402	.49737	.00268	.08680	.49881	.95690
Check ?	None	None	None	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1213.0**	**1036.0**	**29344.**	**10080.**
Stddev	8.3	7.0	12.	7.
%RSD	.68172	.67197	.03977	.07068
#1	1207.1	1031.1	29352.	10075.
#2	1218.8	1040.9	29335.	10085.

Sample Name: BLANK Acquired: 10/30/2014 5:05:46 Type: Unk
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00009**	**.01496**	**-.00030**	**.00106**	**.00002**	**.00005**	**.01777**	**-.00023**	**-.00015**
Stddev	.00022	.00789	.00392	.00023	.00004	.00003	.00046	.00008	.00010
%RSD	241.89	52.754	1325.8	22.052	183.33	49.834	2.5607	34.578	69.206
#1	-.00007	.00938	-.00306	.00090	.00005	.00004	.01745	-.00028	-.00008
#2	.00025	.02054	.00247	.00123	-.00001	.00007	.01810	-.00017	-.00022
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00063**	**-.00008**	**.00499**	**-.00792**	**.00046**	**.04103**	**-.00027**	**-.00005**	**.01432**
Stddev	.00022	.00002	.00062	.01498	.00018	.04508	.00001	.00011	.00039
%RSD	34.698	20.838	12.349	189.06	40.020	109.87	4.3932	239.47	2.7348
#1	.00078	-.00007	.00543	.00267	.00059	.07290	-.00027	.00003	.01460
#2	.00047	-.00010	.00456	-.01851	.00033	.00915	-.00028	-.00012	.01404
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Line	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}	334.904 {101}
IS Ref	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)	(Y_3774)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00038**	**.00372**	**-.0071**	**-.00167**	**.00234**	**.00470**	**.00009**	**.00009**	**.00046**
Stddev	.00084	.00131	.0058	.00220	.00212	.01156	.00061	.00006	.00039
%RSD	219.54	35.169	81.38	131.20	90.813	245.97	648.02	71.052	85.960
#1	.00098	.00465	-.0112	-.00012	.00384	-.00348	-.00034	.00004	.00073
#2	-.00021	.00280	-.0030	-.00323	.00084	.01288	.00053	.00013	.00018
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V_2924	Zn2062
Line	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm
Avg	**-.00073**	**-.00025**	**.00178**
Stddev	.00181	.00023	.00080
%RSD	247.00	91.702	44.837
#1	-.00202	-.00009	.00235
#2	.00055	-.00041	.00122
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1719.2**	**1166.7**	**34645.**	**10694.**
Stddev	3.3	1.5	111.	50.
%RSD	.18973	.13129	.31994	.46642
#1	1716.9	1167.7	34567.	10730.
#2	1721.5	1165.6	34724.	10659.
Check ?	None	None	None	None
Value				
Range				

Sample Name: ccvl-2388843 Acquired: 10/30/2014 5:08:38 Type: QC
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00624**	**.19721**	**.01241**	**.02101**	**.00211**	**.00199**	**.49149**	**.00174**	**.00399**	**.00444**	**.00877**	**.04917**
Stddev	.00004	.00622	.00263	.00016	.00002	.00001	.00007	.00001	.00013	.00004	.00027	.00094
%RSD	.67812	3.1531	21.208	.77751	.87422	.29039	.01356	.61195	3.2030	1.0112	3.0546	1.9135
#1	.00621	.20161	.01427	.02090	.00212	.00199	.49144	.00173	.00390	.00448	.00895	.04851
#2	.00627	.19282	.01055	.02113	.00210	.00198	.49154	.00175	.00408	.00441	.00858	.04984
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value												
Range												

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.46585**	**.02890**	**.20651**	**.00280**	**.01027**	**.96755**	**.00879**	**.01077**	**.1699**	**.01741**	**.02603**	**.50340**
Stddev	.00599	.00045	.00252	.00014	.00019	.00300	.00125	.00149	.0015	.00020	.00851	.00951
%RSD	1.2862	1.5508	1.2221	4.9258	1.8862	.30969	14.228	13.848	.9123	1.1680	32.707	1.8888
#1	.46161	.02858	.20829	.00270	.01014	.96543	.00967	.01183	.1688	.01727	.03204	.49668
#2	.47008	.02921	.20473	.00290	.01041	.96967	.00790	.00972	.1710	.01756	.02001	.51012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value												
Range												

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00916**	**.00494**	**.00561**	**.01531**	**.00500**	**.01152**
Stddev	.00053	.00000	.00016	.00234	.00028	.00008
%RSD	5.7529	.01634	2.8111	15.279	5.6170	.73083
#1	.00953	.00494	.00550	.01697	.00520	.01157
#2	.00879	.00494	.00572	.01366	.00480	.01146
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1727.0**	**1181.4**	**35076.**	**10778.**
Stddev	.8	1.8	96.	42.
%RSD	.04808	.15357	.27412	.39181
#1	1726.4	1180.1	35008.	10808.
#2	1727.6	1182.7	35144.	10748.

Sample Name: CCV-2388838 Acquired: 10/30/2014 5:11:31 Type: QC
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.54647**	**27.043**	**.51381**	**.50714**	**.50756**	**.51009**	**26.443**	**.51993**	**.51864**	**.53601**	**.52745**	**25.626**	**25.891**	**.51427**
Stddev	.00153	.057	.00329	.00295	.00229	.00111	.047	.00037	.00080	.00097	.00151	.029	.108	.00366
%RSD	.28049	.21067	.64124	.58153	.45078	.21811	.17932	.07126	.15445	.18173	.28641	.11137	.41644	.71206
#1	.54538	27.003	.51148	.50506	.50594	.50930	26.409	.51966	.51921	.53532	.52852	25.606	25.815	.51168
#2	.54755	27.083	.51614	.50923	.50918	.51087	26.476	.52019	.51807	.53670	.52638	25.646	25.968	.51686
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value														
Range														

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**26.576**	**.53458**	**.52634**	**26.024**	**.51768**	**.52654**	**25.49**	**.51120**	**.52187**	**26.746**	**.52429**	**.52662**	**.53666**	**.50878**
Stddev	.045	.00063	.00268	.089	.00026	.00068	.00	.00339	.00082	.024	.00144	.00264	.00003	.00459
%RSD	.16866	.11851	.50962	.34288	.05024	.12853	.0080	.66382	.15779	.09058	.27488	.50045	.00582	.90166
#1	26.544	.53413	.52444	25.961	.51750	.52606	25.49	.50880	.52246	26.729	.52531	.52475	.53664	.51203
#2	26.608	.53503	.52823	26.087	.51786	.52702	25.49	.51360	.52129	26.764	.52327	.52848	.53668	.50554
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value														
Range														

Elem	V_2924	Zn2062
Units	ppm	ppm
Avg	**.52996**	**.54793**
Stddev	.00020	.00112
%RSD	.03744	.20512
#1	.52982	.54714
#2	.53010	.54873
Check ?	Chk Pass	Chk Pass
Value		
Range		

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1525.6**	**1134.4**	**32856.**	**10549.**
Stddev	.0	1.8	57.	9.
%RSD	.00157	.15920	.17368	.08530
#1	1525.6	1135.7	32816.	10555.
#2	1525.7	1133.1	32897.	10542.

Sample Name: CCB-2388837 Acquired: 10/30/2014 5:14:15 Type: QC
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00018**	**-.00102**	**-.00174**	**.00185**	**.00013**	**.00008**	**.00121**	**-.00022**	**-.00010**	**.00047**	**-.00044**	**.00210**
Stddev	.00026	.00400	.00029	.00041	.00001	.00001	.00048	.00003	.00004	.00046	.00023	.00089
%RSD	143.76	392.42	16.412	22.074	7.2601	7.3114	39.913	13.137	38.384	98.315	51.467	42.650
#1	.00000	.00181	-.00154	.00214	.00012	.00008	.00087	-.00020	-.00013	.00080	-.00060	.00147
#2	-.00037	-.00385	-.00194	.00156	.00014	.00008	.00156	-.00024	-.00007	.00014	-.00028	.00273
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit												
Low Limit												

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01144**	**.00018**	**-.00221**	**-.00017**	**-.00011**	**.00553**	**.00005**	**.00287**	**-.0113**	**.00033**	**-.00015**	**.00905**
Stddev	.00880	.00013	.00094	.00002	.00023	.00303	.00013	.00188	.0090	.00093	.00079	.00150
%RSD	76.899	73.983	42.337	14.338	202.57	54.907	266.70	65.296	79.34	280.39	514.26	16.596
#1	.01766	.00008	-.00287	-.00015	-.00027	.00338	.00014	.00420	-.0050	.00099	.00041	.00799
#2	.00522	.00027	-.00155	-.00019	.00005	.00767	-.00004	.00155	-.0177	-.00033	-.00072	.01011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit												
Low Limit												

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00054**	**.00007**	**.00093**	**.00061**	**.00011**	**.00052**
Stddev	.00114	.00002	.00055	.00487	.00009	.00030
%RSD	213.55	28.971	59.561	795.95	78.625	57.690
#1	-.00135	.00009	.00132	.00405	.00018	.00073
#2	.00027	.00006	.00054	-.00283	.00005	.00031
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1732.2**	**1179.2**	**34940.**	**10670.**
Stddev	3.0	3.2	110.	39.
%RSD	.17213	.27475	.31465	.36272
#1	1734.3	1181.5	34862.	10697.
#2	1730.1	1177.0	35018.	10643.

Sample Name: CCV-2388838 Acquired: 10/30/2014 5:17:09 Type: QC
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.54738**	**26.724**	**.51519**	**.50832**	**.50948**	**.50924**	**26.245**	**.51989**	**.51862**	**.53360**	**.52425**	**25.640**	**25.677**	**.50781**
Stddev	.00118	.064	.00113	.00199	.00144	.00076	.120	.00210	.00094	.00625	.00187	.015	.070	.00024
%RSD	.21623	.24063	.21844	.39111	.28239	.14863	.45620	.40460	.18074	1.1706	.35658	.05997	.27290	.04815
#1	.54654	26.769	.51439	.50691	.50846	.50977	26.330	.51840	.51796	.52919	.52293	25.651	25.727	.50798
#2	.54821	26.678	.51598	.50972	.51050	.50870	26.161	.52137	.51929	.53802	.52557	25.629	25.628	.50764
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value														
Range														

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**26.551**	**.53497**	**.52539**	**25.727**	**.51482**	**.52068**	**25.54**	**.51363**	**.51417**	**26.537**	**.52160**	**.52166**	**.53513**	**.50514**
Stddev	.049	.00224	.00128	.008	.00058	.00284	.04	.00023	.00754	.065	.00270	.00041	.00166	.00905
%RSD	.18518	.41814	.24346	.03120	.11354	.54473	.1570	.04450	1.4670	.24471	.51833	.07866	.30941	1.7912
#1	26.516	.53339	.52448	25.722	.51523	.52268	25.51	.51347	.50883	26.583	.51969	.52137	.53396	.49874
#2	26.586	.53655	.52629	25.733	.51440	.51867	25.57	.51379	.51950	26.491	.52351	.52195	.53630	.51154
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value														
Range														

Elem	V_2924	Zn2062
Units	ppm	ppm
Avg	**.52492**	**.54357**
Stddev	.00361	.00105
%RSD	.68691	.19356
#1	.52237	.54283
#2	.52747	.54432
Check ?	Chk Pass	Chk Pass
Value		
Range		

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1526.3**	**1133.1**	**33013.**	**10586.**
Stddev	.4	1.5	70.	15.
%RSD	.02326	.13101	.21155	.13724
#1	1526.0	1134.1	33062.	10575.
#2	1526.5	1132.0	32964.	10596.

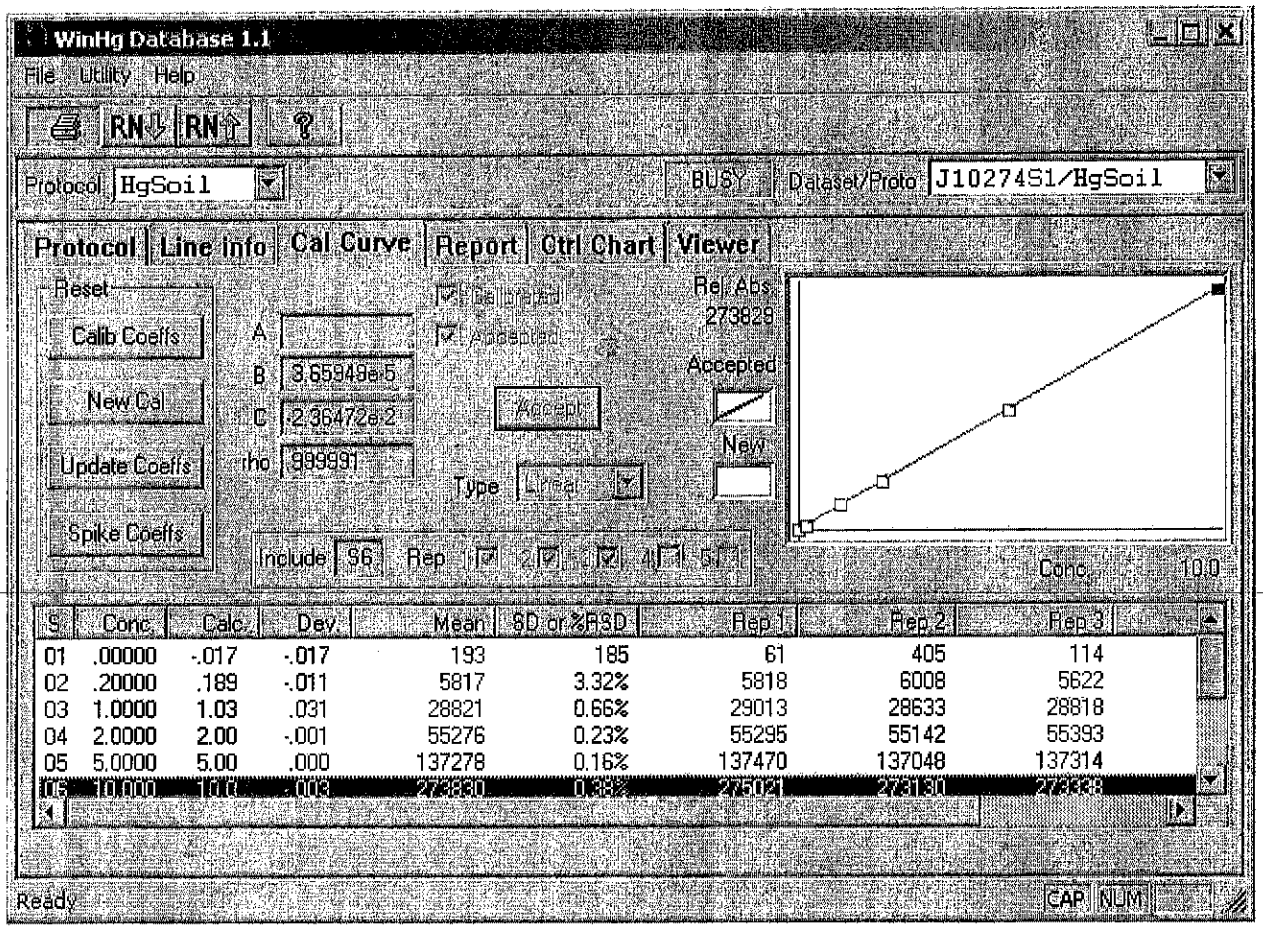
Sample Name: CCB-2388837 Acquired: 10/30/2014 5:19:53 Type: QC
Method: ICAP 1 MARCH 2014(v153) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00009**	**.00453**	**-.00349**	**.00226**	**.00008**	**.00004**	**-.00060**	**-.00022**	**.00006**	**.00079**	**-.00056**	**.00030**
Stddev	.00058	.01161	.00313	.00036	.00000	.00003	.00304	.00005	.00003	.00086	.00016	.00096
%RSD	651.89	256.42	89.776	15.836	2.5159	57.744	502.59	24.106	47.277	108.76	28.222	316.69
#1	.00050	.01273	-.00127	.00252	.00008	.00006	-.00275	-.00018	.00008	.00140	-.00067	.00098
#2	-.00032	-.00368	-.00570	.00201	.00008	.00003	.00154	-.00026	.00004	.00018	-.00045	-.00038
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit												
Low Limit												

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.01718**	**.00055**	**-.00137**	**-.00028**	**-.00003**	**.00033**	**-.00057**	**.00027**	**-.0095**	**-.00049**	**.00018**	**.01592**
Stddev	.00408	.00019	.00336	.00004	.00066	.00199	.00041	.00047	.0044	.00006	.00367	.00153
%RSD	23.763	34.413	244.43	13.321	2198.9	595.01	70.624	174.00	46.92	12.970	2092.8	9.6317
#1	-.01429	.00042	.00100	-.00026	-.00049	-.00107	-.00029	.00060	-.0063	-.00054	.00277	.01700
#2	-.02007	.00069	-.00375	-.00031	.00043	.00174	-.00086	-.00006	-.0126	-.00045	-.00242	.01483
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit												
Low Limit												

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**.00008**	**.00010**	**-.00136**	**.00005**	**.00049**
Stddev	.00093	.00005	.00024	.00233	.00022	.00019
%RSD	2496.2	60.958	228.85	171.36	432.09	39.431
#1	.00062	.00005	.00027	-.00300	.00021	.00063
#2	-.00069	.00011	-.00006	.00029	-.00011	.00035
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1727.9**	**1169.5**	**34972.**	**10705.**
Stddev	2.0	2.7	70.	4.
%RSD	.11390	.23330	.19952	.04161
#1	1729.3	1171.4	34923.	10701.
#2	1726.5	1167.6	35021.	10708.



L3
10/27/14

210223
1

Cal: J10274C2

Run: ~~J10274w~~ LK 10/27/14 J10274S1

Batch: 210199

Line	Conc.	Units	SD/RSD	1	2	3	4	5

210233

*** Check Standard: 2 Ck2ICV Seq: 1 12:52:17 27 Oct 14 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		106.	3.18	3.00	ppb	.000

*** Check Standard: 1 Ck1CCB Seq: 2 12:54:10 27 Oct 14 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.020	.200	ppb	.000

*** Check Standard: 4 Ck4CCVL Seq: 3 12:55:53 27 Oct 14 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		104.	.208	.200	ppb	.000

*** Check Standard: 3 Ck3CCV Seq: 4 12:57:38 27 Oct 14 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		105.	2.10	2.00	ppb	.000

*** Check Standard: 1 Ck1CCB Seq: 5 12:59:24 27 Oct 14 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.034	.200	ppb	.000

*** Sample ID: mb 480-210199/1-a Seq: 6 13:01:06 27 Oct 14 HG

Hg	-.033	ppb	.000	-.033

*** Sample ID: lcssrm 480-210199/2- Seq: 7 13:02:51 27 Oct 14 HG

Hg	4.10	ppb	.000	4.10

*** Sample ID: 480-70091-b-1-a Seq: 8 13:04:44 27 Oct 14 HG

Hg	.135	ppb	.000	.135

*** Sample ID: 480-70101-f-1-a Seq: 9 13:06:28 27 Oct 14 HG

Hg	-.010	ppb	.000	-.010

*** Sample ID: 480-70101-f-2-a Seq: 10 13:08:13 27 Oct 14 HG

Hg	.028	ppb	.000	.028

*** Sample ID: 480-70110-d-1-a Seq: 11 13:10:01 27 Oct 14 HG

Hg	.090	ppb	.000	.090

*** Sample ID: 480-69918-c-1-a Seq: 12 13:11:45 27 Oct 14 HG

Hg	.386	ppb	.000	.386

*** Sample ID: 480-69974-a-3-a Seq: 13 13:13:30 27 Oct 14 HG

Hg	1.22	ppb	.000	1.22

*** Sample ID: 480-69988-a-12-b Seq: 14 13:15:13 27 Oct 14 HG

Hg	.145	ppb	.000	.145

*** Sample ID: 480-69988-a-13-b Seq: 15 13:16:59 27 Oct 14 HG

Hg	.128	ppb	.000	.128

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Check Standard: 3 Ck3CCV Seq: 16 13:18:47 27 Oct 14 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		105.	2.10	2.00	ppb	.000

*** Check Standard: 1 Ck1CCB Seq: 17 13:20:31 27 Oct 14 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.022	.200	ppb	.000

*** Sample ID: Seq: 18 13:22:14 27 Oct 14 HG
480-69988-a-14-b

Hg	.124	ppb	.000	.124

*** Sample ID: Seq: 19 13:24:00 27 Oct 14 HG
480-69988-a-15-d

Hg	.052	ppb	.000	.052

*** Sample ID: Seq: 20 13:25:48 27 Oct 14 HG
480-69988-a-15-dSD@5

Hg	-.020	ppb	.000	-.020

*** Sample ID: Seq: 21 13:27:41 27 Oct 14 HG
480-69988-a-15-e ms

Hg	4.46	ppb	.000	4.46

*** Sample ID: Seq: 22 13:29:24 27 Oct 14 HG
480-69988-b-15-d msd

Hg	4.48	ppb	.000	4.48

*** Sample ID: Seq: 23 13:31:10 27 Oct 14 HG
480-69988-a-16-b

Hg	.023	ppb	.000	.023

*** Sample ID: Seq: 24 13:32:53 27 Oct 14 HG
480-69988-a-17-b

Hg	.040	ppb	.000	.040

*** Sample ID: Seq: 25 13:34:36 27 Oct 14 HG
480-69988-a-18-b

Hg	.047	ppb	.000	.047

*** Sample ID: Seq: 26 13:36:22 27 Oct 14 HG
480-69988-a-19-b

Hg	.119	ppb	.000	.119

*** Sample ID: Seq: 27 13:38:07 27 Oct 14 HG
480-69988-a-20-b

Hg	.053	ppb	.000	.053

*** Check Standard: 3 Ck3CCV Seq: 28 13:39:51 27 Oct 14 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		104.	2.09	2.00	ppb	.000

*** Check Standard: 1 Ck1CCB Seq: 29 13:41:34 27 Oct 14 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.011	.200	ppb	.000

*** Check Standard: 4 Ck4CCVL Seq: 30 13:43:19 27 Oct 14 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		101.	.201	.200	ppb	.000

METALS BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-70101-1

SDG No.:

Batch Number: 210509 Batch Start Date: 10/28/14 11:03 Batch Analyst: Burghardt, Sarah L

Batch Method: 3050B Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	CalcMsg	InitialAmount	FinalAmount	MED_SRM_D080 00010		
MB 480-210509/1		3050B, 6010C		CALC NOT SET TO RUN	+0.4762 g	50 mL			
LCSSRM 480-210509/2		3050B, 6010C		CALC NOT SET TO RUN	+0.4921 g	50 mL	0.5 g		
LCDSRM 480-210509/3		3050B, 6010C		CALC NOT SET TO RUN	+0.4919 g	50 mL	0.5 g		
480-70101-B-1	AS-CONC-PIERS	3050B, 6010C	T	CALC NOT SET TO RUN	+0.4947 g	50 mL			
480-70101-B-2	AS-CONC-OUTLET	3050B, 6010C	T	CALC NOT SET TO RUN	+0.5315 g	50 mL			

Batch Notes	
Balance ID	25850472
Blank Soil Lot Number	1563549
First End time	14:28
Filter Paper Lot Number	40317756 (Push Filters)
Hydrogen peroxide lot number	0000078702
Lot # of hydrochloric acid	0000040272
Lot # of Nitric Acid	0000078427
Hot Block ID number	G
Oven, Bath or Block Temperature 2	Auto Degrees C
Pipette ID	MDL4
First Start time	11:03
Temperature	93.5 Degrees C
ID number of the thermometer	130570425
Digestion Tube/Cup Lot #	1309222
Uncorrected Temperature 2	Auto Degrees C

Basis	Basis Description
T	Total/NA

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

METALS BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-70101-1

SDG No.:

Batch Number: 210199 Batch Start Date: 10/27/14 11:05 Batch Analyst: Kasprzyk, Layne R

Batch Method: 7471B Batch End Date: 10/27/14 11:35

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	MED_SRM_D080 00009			
MB 480-210199/1		7471B, 7471B		+0.6438 g	50 mL				
LCSSRM 480-210199/2		7471B, 7471B		+0.0496 g	50 mL	+0.0496 g			
480-70101-F-1	AS-CONC-PIERS	7471B, 7471B	T	+0.6438 g	50 mL				
480-70101-F-2	AS-CONC-OUTLET	7471B, 7471B	T	+0.6539 g	50 mL				

Batch Notes	
Hydroxylamine Hydrochloride Lot	2319828
Balance ID	25850472
Batch Comment	Cal Batch: 210233
Blank Soil Lot Number	2053596
Lot # of hydrochloric acid	2331112
Lot # of Nitric Acid	2343030
Hot Block ID number	HG-A
Potassium Permanganate Lot Number	2321830
Oven, Bath or Block Temperature 1	94.6 Celsius
Pipette ID	HGL-5
Stannous Chloride Lot Number	2319827
ID number of the thermometer	S/N5292
Digestion Tube/Cup Lot #	1309222
Uncorrected Temperature	93.0 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 Buffalo Job Number: 480-70101-1

SDG No.:

Project: Altech Specialty Steel; Dunkirk, NY

Client Sample ID	Lab Sample ID
AS-CONC-PIERS	480-70101-1
AS-CONC-OUTLET	480-70101-2

Comments:

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job Number: 480-70101-1

SDG Number:

Matrix: Solid Instrument ID: NOEQUIP

Method: Moisture RL Date: 08/17/2009 12:10

Analyte	Wavelength/ Mass	RL (%)	
Percent Moisture		0.1	
Percent Solids		0.1	

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job Number: 480-70101-1

SDG Number:

Matrix: Solid Instrument ID: NOEQUIP

Method: Moisture XRL Date: 08/17/2009 12:10

Analyte	Wavelength/ Mass	XRL (%)	
Percent Moisture		0.1	
Percent Solids		0.1	

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 480-70101-1

SDG No.:

Instrument ID: NOEQUIP Method: Moisture

Start Date: 10/24/2014 20:36 End Date: 10/24/2014 20:36

Lab Sample ID	D / F	Type	Time	Analytes																				
				% Sol	Moist																			
ZZZZZZ			20:36																					
ZZZZZZ			20:36																					
ZZZZZZ			20:36																					
ZZZZZZ			20:36																					
ZZZZZZ			20:36																					
ZZZZZZ			20:36																					
480-70101-1	1	T	20:36	X	X																			
480-70101-2	1	T	20:36	X	X																			
ZZZZZZ			20:36																					
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Prep Types

T = Total/NA

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-70101-1

SDG No.:

Batch Number: 210003 Batch Start Date: 10/24/14 20:36 Batch Analyst: Wallace, Cameron

Batch Method: Moisture Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	DISH#	DishWeight	SampleMassWet	SampleMassDry		
480-70101-A-1	AS-CONC-PIERS	Moisture	T	5	4.30 g	11.59 g	11.15 g		
480-70101-A-2	AS-CONC-OUTLET	Moisture	T	6	4.30 g	10.37 g	10.20 g		

Batch Notes	
Batch Comment	PP-FH-06-14
Date samples were placed in the oven	10-24-14
Time samples were place in the oven	21:00

Basis	Basis Description
T	Total/NA

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

Shipping and Receiving Documents

10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

Samples

Chain of Custody Record

TestAmerica

480-70101 Chain of Custody

Client Information	Sampler: Scott Clary	Lab PM: Deyo, Melissa L	53-13295.1
Client Contact: Mr. Scott Clary	Phone: 724-612-4237	E-Mail: melissa.deyo@testameric	of 47
Company: Horizon Environmental Services			
Address: 590 A Callery Road	Due Date Requested:		
City: Cranberry Township	TAT Requested (days): ~~7~~ 5 day		
State, Zip: PA, 16066			
Phone: 724-538-8522(Tel)	PO #: Purchase Order not required		
Email: scoff@horizonenviro.net	WO #:		
Project Name: Altech Specialty Steel; Dunkirk, NY	Project #: 48009222		
Site:	SSOW#:		

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2SO3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - ph 4-5
L - EDA	Z - other (specify)

Other:

CAT-B

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8082A - PCBs	8270D - TCL Semivolatiles	8260C - TCL Volatiles	6010C, 7471B	6010C, 7470A, 8081B, 8270D	8260C - TCLP Volatiles	8260C - TCL list OLM04.2	8270D - TCL SVOA - OLM04.2	6010C, 7470A	8082A_LL - (MOD) Local Method	8260C - TCL list OLM04.2	8082A, 8270D	Total Number of containers	Special Instructions/Note:
			Preservation Code:		X	X	N	N	N	N	N	N	A	N	D	N	N	N	X	
AS-CONC-PIERS	10/23/14	2:00pm	C	Solid			X	X	X	X										
AS-CONC-OUTLET	10/23/14	2:30pm	C	Solid			X	X	X	X										
				Solid																
				Solid																
				Solid																
				Solid																
				Solid																
				Solid																
				Solid																
				Solid																
				Solid																
				Solid																

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by:	Date/Time: 10/24/14 8:00am	Company: HES	Received by:	Date/Time: 10/24/14 14:50	Company: TAS
Relinquished by:	Date/Time: 10/24/14 16:05	Company: TAS	Received by:	Date/Time: 10/24/14 1605	Company:
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 3.0 #1

Login Sample Receipt Checklist

Client: Horizon Environmental Services

Job Number: 480-70101-1

Login Number: 70101

List Source: TestAmerica Buffalo

List Number: 1

Creator: Janish, Carl M

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	hes
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	