TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 480-58807-1

Job Description: Mt Kisco

Sampling Event: TCLP Haz Waste Characteristics - Soil

For:
Sterling Environmental Engineering PC
24 Wade Road
Latham, NY 12110

Attention: Jennifer DiCerbo

Approved for release.
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Project Management Assistant I
5/15/2014 10:43 AM

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05/15/2014

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Comments
No additional comments.

Receipt
The samples were received on 4/28/2014 9:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 13 coolers at receipt time were 2.3º C, 3.1º C, 4.9º C, 5.3º C, 7.3º C, 9.0º C, 9.0º C, 9.2º C, 9.3º C, 10.6º C, 10.7º C, 11.1º C and 11.3º C.

GC/MS VOA
Method(s) 8260C: The following sample(s) was diluted due to the nature of the TCLP sample matrix: (LB 480-178952/1-A), P1-1(Sed) (480-58807-1), P1-2(Sed) (480-58807-2), P2-1(Sed) (480-58807-3), P2-2(Sed) (480-58807-4). Elevated reporting limits (RLs) are provided.

No other analytical or quality issues were noted.

GC/MS Semi VOA
Method(s) 8270D: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for preparation batch 480-180799 recovered outside control limits for the following analytes: 3-Methylphenol and 4-Methylphenol. These analytes were biased high in the LCS/LCSD and were not detected in the associated samples; therefore, the data have been reported.

No other analytical or quality issues were noted.

GC Semi VOA
Method(s) 8081B: All primary data is reported from the RTX-CLPII column.

Method(s) 8081B: The percent difference in a multi-component continuing calibration verification is assessed on the basis of the total amount, individual peak calculations are only listed for completeness.

Method(s) 8081B: The extraction laboratory blank (LB 480-180381/1-F) contained the analyte gamma-BHC (Lindane) above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method(s) 8082A: The surrogate percent difference in the associated continuing calibration verifications (CCV) for Decachlorobiphenyl exceeded 20%, indicating a high bias. (CCV 480-179084/85), (CCV 480-179084/92)

Method(s) 8082A: All primary data is reported from the ZB-5 column.

Method(s) 8082A: The surrogate percent difference in the associated continuing calibration verification CCV 480-179084/73 for Decachlorobiphenyl exceeded 20% on the ZB-5 column, indicating a high bias.

Method(s) 8151A: Surrogate recovery for the following samples was outside control limits: (LB 480-180381/1-E), P1-1(Sed) (480-58807-1), P1-2(Sed) (480-58807-2), P2-1(Sed) (480-58807-3), P2-2(Sed) (480-58807-4). This is routine for TCLP herbicides, due to the pH effects created during the leaching process, inhibiting the herbicide extraction procedure.

Method(s) 8151A: All primary data is reported from the RTX-CLPI column.

No other analytical or quality issues were noted.

Metals
Method(s) 6010C: The TCLP Extractor Blank, LB 480-178938, contained total barium above the reporting limit (RL). The associated samples P1-1(Sed) (480-58807-1), P1-2(Sed) (480-58807-2), P2-1(Sed) (480-58807-3), P2-2(Sed) (480-58807-4) contained detects for this analyte at concentrations greater than 10X the value found in the TCLP Extractor Blank; therefore, re-extraction and/or re-analysis of the samples was not performed.

Method(s) 6010C: The TCLP Extractor Blank, LB 480-178938, contained total chromium above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples P1-1(Sed) (480-58807-1), P1-2(Sed) (480-58807-2), P2-1(Sed) (480-58807-3), P2-2(Sed) (480-58807-4) was not performed.

Method(s) 7470A: The laboratory control sample (LCS) associated with batch 179227 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported per project manager instruction. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

No other analytical or quality issues were noted.

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

Organic Prep
Method(s) 3510C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with batch 180799.

Method(s) 3510C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with batch 180803

Method(s) 3550C: During extraction, the technician accidentally added an additional 1.0mL Hexane. Final volume became 11mL instead of the 8082 Method's 10mL: P1-1(Sed) (480-58807-1), P1-2(Sed) (480-58807-2). The reporting limits (RLs) are elevated proportionately.

No other analytical or quality issues were noted.

SAMPLE SUMMARY

Client: Sterling Environmental Engineering PC

Job Number: 480-58807-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
480-58807-1	P1-1(Sed)	Solid	04/25/2014 0000	04/28/2014 0930
480-58807-2	P1-2(Sed)	Solid	04/25/2014 0000	04/28/2014 0930
480-58807-3	P2-1(Sed)	Solid	04/25/2014 0000	04/28/2014 0930
480-58807-4	P2-2(Sed)	Solid	04/25/2014 0000	04/28/2014 0930

EXECUTIVE SUMMARY - Detections

Client: Sterling Environmental Engineering PC Job Number: 480-58807-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
480-58807-1	**P1-1(SED)**					
PCB-1254		2.5		0.31	mg/Kg	8082A
PCB-1260		1.3		0.31	mg/Kg	8082A
Flashpoint		>176.0		50.0	Degrees F	1010A
pH		5.34		0.100	SU	9045D
Percent Moisture		15		0.10	%	Moisture
Percent Solids		85		0.10	%	Moisture
TCLP						
1,2-Dichloroethane		0.054		0.010	mg/L	8260C
Chlordane (technical)		0.00051	J	0.0020	mg/L	8081B
gamma-BHC (Lindane)		0.000043	J B	0.00020	mg/L	8081B
Barium		1.1	B	0.0020	mg/L	6010C
Cadmium		0.024		0.0020	mg/L	6010C
Chromium		0.027	B	0.0040	mg/L	6010C
Lead		0.49		0.010	mg/L	6010C
Silver		0.017		0.0060	mg/L	6010C
Mercury		0.0081	*	0.00020	mg/L	7470A
480-58807-2	**P1-2(SED)**					
PCB-1254		0.84		0.30	mg/Kg	8082A
PCB-1260		0.52		0.30	mg/Kg	8082A
Flashpoint		>176.0		50.0	Degrees F	1010A
pH		5.73		0.100	SU	9045D
Percent Moisture		17		0.10	%	Moisture
Percent Solids		83		0.10	%	Moisture
TCLP						
Chlordane (technical)		0.00052	J	0.0020	mg/L	8081B
gamma-BHC (Lindane)		0.000043	J B	0.00020	mg/L	8081B
Heptachlor epoxide		0.000041	J	0.00020	mg/L	8081B
Barium		0.80	B	0.0020	mg/L	6010C
Cadmium		0.042		0.0020	mg/L	6010C
Chromium		0.0023	J B	0.0040	mg/L	6010C
Lead		0.084		0.010	mg/L	6010C
Mercury		0.00014	J *	0.00020	mg/L	7470A

EXECUTIVE SUMMARY - Detections

Client: Sterling Environmental Engineering PC

Job Number: 480-58807-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
480-58807-3	**P2-1(SED)**					
Flashpoint		>176.0		50.0	Degrees F	1010A
pH		5.82		0.100	SU	9045D
Percent Moisture		13		0.10	%	Moisture
Percent Solids		87		0.10	%	Moisture
TCLP						
1,2-Dichloroethane		0.0075	J	0.010	mg/L	8260C
Barium		0.46	B	0.0020	mg/L	6010C
Cadmium		0.0026		0.0020	mg/L	6010C
Chromium		0.0017	J B	0.0040	mg/L	6010C
Lead		0.18		0.010	mg/L	6010C
Mercury		0.00022	*	0.00020	mg/L	7470A
480-58807-4	**P2-2(SED)**					
Flashpoint		>176.0		50.0	Degrees F	1010A
pH		6.58		0.100	SU	9045D
Percent Moisture		18		0.10	%	Moisture
Percent Solids		82		0.10	%	Moisture
TCLP						
Barium		0.40	B	0.0020	mg/L	6010C
Cadmium		0.0026		0.0020	mg/L	6010C
Chromium		0.0016	J B	0.0040	mg/L	6010C
Lead		0.092		0.010	mg/L	6010C
Mercury		0.00012	J *	0.00020	mg/L	7470A

METHOD SUMMARY

Client: Sterling Environmental Engineering PC

Job Number: 480-58807-1

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
TCLP Volatiles	TAL BUF	SW846 8260C	
TCLP Extraction	TAL BUF		SW846 1311
Purge and Trap	TAL BUF		SW846 5030C
Semivolatile Organic Compounds (GC/MS)	TAL BUF	SW846 8270D	
TCLP Extraction	TAL BUF		SW846 1311
Liquid-Liquid Extraction (Separatory Funnel)	TAL BUF		SW846 3510C
Organochlorine Pesticides (GC)	TAL BUF	SW846 8081B	
TCLP Extraction	TAL BUF		SW846 1311
Liquid-Liquid Extraction (Separatory Funnel)	TAL BUF		SW846 3510C
Polychlorinated Biphenyls (PCBs) by Gas Chromatography	TAL BUF	SW846 8082A	
Ultrasonic Extraction	TAL BUF		SW846 3550C
TCLP Herbicides	TAL BUF	SW846 8151	
TCLP Extraction	TAL BUF		SW846 1311
Extraction (Herbicides)	TAL BUF		SW846 8151A
Metals (ICP)	TAL BUF	SW846 6010C	
TCLP Extraction	TAL BUF		SW846 1311
Preparation, Total Metals	TAL BUF		SW846 3010A
TCLP Mercury	TAL BUF	SW846 7470A	
TCLP Extraction	TAL BUF		SW846 1311
Preparation, Mercury	TAL BUF		SW846 7470A
Ignitability, Pensky-Martens Closed Cup Method	TAL BUF	SW846 1010A	
Cyanide, Reactive	TAL BUF	SW846 9012	
Cyanide, Reactive	TAL BUF		SW846 7.3.3
Sulfide, Reactive	TAL BUF	SW846 9034	
Sulfide, Reactive	TAL BUF		SW846 7.3.4
pH	TAL BUF	SW846 9045D	
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: Sterling Environmental Engineering PC

Job Number: 480-58807-1

Method	Analyst	Analyst ID
SW846 8260C	Goliszek, Gregory T	GTG
SW846 8270D	Ly, Hau T	HTL
SW846 8081B	Wolf, Leah M	LMW
SW846 8082A	Michalek, Jason M	JMM
SW846 8151	Besco, Donna G	DGB
SW846 6010C	Hanks, Lisa M	LMH
SW846 7470A	Kasprzyk, Layne R	LRK
SW846 1010A	Pietras, Rosemary	RP
SW846 9012	Wolfe, Larry A	LAW
SW846 9034	Wolfe, Larry A	LAW
SW846 9045D	Brado, James M	JMB
EPA Moisture	Robison, Zachary J	ZJR

Client: Sterling Environmental Engineering PC

Job Number: 480-58807-1

Client Sample ID: **P1-1(Sed)**

Lab Sample ID: 480-58807-1
Client Matrix: Solid

Date Sampled: 04/25/2014 0000
Date Received: 04/28/2014 0930

8260C TCLP Volatiles-TCLP

Analysis Method:	8260C	Analysis Batch:	480-179119	Instrument ID:	HP5973G
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	G29951.D
Dilution:	10	Leach Batch:	480-178952	Initial Weight/Volume:	5 mL
Analysis Date:	04/30/2014 1736			Final Weight/Volume:	5 mL
Prep Date:	04/30/2014 1736				
Leach Date:	04/29/2014 1432				

Analyte	DryWt Corrected: N	Result (mg/L)	Qualifier	MDL	RL
1,1-Dichloroethene		ND		0.0029	0.010
1,2-Dichloroethane		0.054		0.0021	0.010
2-Butanone (MEK)		ND		0.013	0.050
Benzene		ND		0.0041	0.010
Carbon tetrachloride		ND		0.0027	0.010
Chlorobenzene		ND		0.0075	0.010
Chloroform		ND		0.0034	0.010
Tetrachloroethene		ND		0.0036	0.010
Trichloroethene		ND		0.0046	0.010
Vinyl chloride		ND		0.0090	0.010

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	98		66 - 137
4-Bromofluorobenzene (Surr)	104		73 - 120
Toluene-d8 (Surr)	100		71 - 126

Client: Sterling Environmental Engineering PC

Job Number: 480-58807-1

Client Sample ID: **P1-2(Sed)**

Lab Sample ID: 480-58807-2
Client Matrix: Solid

Date Sampled: 04/25/2014 0000
Date Received: 04/28/2014 0930

8260C TCLP Volatiles-TCLP

Analysis Method:	8260C	Analysis Batch:	480-179119	Instrument ID:	HP5973G
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	G29952.D
Dilution:	10	Leach Batch:	480-178952	Initial Weight/Volume:	5 mL
Analysis Date:	04/30/2014 1759			Final Weight/Volume:	5 mL
Prep Date:	04/30/2014 1759				
Leach Date:	04/29/2014 1432				

Analyte	DryWt Corrected: N	Result (mg/L)	Qualifier	MDL	RL
1,1-Dichloroethene		ND		0.0029	0.010
1,2-Dichloroethane		ND		0.0021	0.010
2-Butanone (MEK)		ND		0.013	0.050
Benzene		ND		0.0041	0.010
Carbon tetrachloride		ND		0.0027	0.010
Chlorobenzene		ND		0.0075	0.010
Chloroform		ND		0.0034	0.010
Tetrachloroethene		ND		0.0036	0.010
Trichloroethene		ND		0.0046	0.010
Vinyl chloride		ND		0.0090	0.010

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	96		66 - 137
4-Bromofluorobenzene (Surr)	101		73 - 120
Toluene-d8 (Surr)	100		71 - 126

Client: Sterling Environmental Engineering PC | Job Number: 480-58807-1

Client Sample ID: **P2-1(Sed)**

Lab Sample ID: 480-58807-3 | Date Sampled: 04/25/2014 0000
Client Matrix: Solid | Date Received: 04/28/2014 0930

8260C TCLP Volatiles-TCLP

Analysis Method:	8260C	Analysis Batch:	480-179119	Instrument ID:	HP5973G
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	G29953.D
Dilution:	10	Leach Batch:	480-178952	Initial Weight/Volume:	5 mL
Analysis Date:	04/30/2014 1822			Final Weight/Volume:	5 mL
Prep Date:	04/30/2014 1822				
Leach Date:	04/29/2014 1432				

Analyte	DryWt Corrected: N	Result (mg/L)	Qualifier	MDL	RL
1,1-Dichloroethene		ND		0.0029	0.010
1,2-Dichloroethane		0.0075	J	0.0021	0.010
2-Butanone (MEK)		ND		0.013	0.050
Benzene		ND		0.0041	0.010
Carbon tetrachloride		ND		0.0027	0.010
Chlorobenzene		ND		0.0075	0.010
Chloroform		ND		0.0034	0.010
Tetrachloroethene		ND		0.0036	0.010
Trichloroethene		ND		0.0046	0.010
Vinyl chloride		ND		0.0090	0.010

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	98		66 - 137
4-Bromofluorobenzene (Surr)	101		73 - 120
Toluene-d8 (Surr)	98		71 - 126

Client: Sterling Environmental Engineering PC

Job Number: 480-58807-1

Client Sample ID: **P2-2(Sed)**

Lab Sample ID: 480-58807-4

Client Matrix: Solid

Date Sampled: 04/25/2014 0000

Date Received: 04/28/2014 0930

8260C TCLP Volatiles-TCLP

Analysis Method:	8260C	Analysis Batch:	480-179119	Instrument ID:	HP5973G
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	G29954.D
Dilution:	10	Leach Batch:	480-178952	Initial Weight/Volume:	5 mL
Analysis Date:	04/30/2014 1845			Final Weight/Volume:	5 mL
Prep Date:	04/30/2014 1845				
Leach Date:	04/29/2014 1432				

Analyte	DryWt Corrected: N	Result (mg/L)	Qualifier	MDL	RL
1,1-Dichloroethene		ND		0.0029	0.010
1,2-Dichloroethane		ND		0.0021	0.010
2-Butanone (MEK)		ND		0.013	0.050
Benzene		ND		0.0041	0.010
Carbon tetrachloride		ND		0.0027	0.010
Chlorobenzene		ND		0.0075	0.010
Chloroform		ND		0.0034	0.010
Tetrachloroethene		ND		0.0036	0.010
Trichloroethene		ND		0.0046	0.010
Vinyl chloride		ND		0.0090	0.010

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	99		66 - 137
4-Bromofluorobenzene (Surr)	99		73 - 120
Toluene-d8 (Surr)	99		71 - 126

Client: Sterling Environmental Engineering PC

Job Number: 480-58807-1

Client Sample ID: **P1-1(Sed)**

Lab Sample ID: 480-58807-1
Client Matrix: Solid

Date Sampled: 04/25/2014 0000
Date Received: 04/28/2014 0930

8270D Semivolatile Organic Compounds (GC/MS)-TCLP

Analysis Method:	8270D	Analysis Batch:	480-180978	Instrument ID:	HP5973V
Prep Method:	3510C	Prep Batch:	480-180799	Lab File ID:	V0243.D
Dilution:	1.0	Leach Batch:	480-180381	Initial Weight/Volume:	250 mL
Analysis Date:	05/08/2014 2122			Final Weight/Volume:	1 mL
Prep Date:	05/08/2014 0629			Injection Volume:	1 uL
Leach Date:	05/06/2014 1210				

Analyte	DryWt Corrected: N	Result (mg/L)	Qualifier	MDL	RL
1,4-Dichlorobenzene		ND		0.00046	0.010
2,4,5-Trichlorophenol		ND		0.00048	0.0050
2,4,6-Trichlorophenol		ND		0.00061	0.0050
2,4-Dinitrotoluene		ND		0.00045	0.0050
2-Methylphenol		ND		0.00040	0.0050
3-Methylphenol		ND	*	0.00040	0.010
4-Methylphenol		ND	*	0.00036	0.010
Hexachlorobenzene		ND		0.00051	0.0050
Hexachlorobutadiene		ND		0.00068	0.0050
Hexachloroethane		ND		0.00059	0.0050
Nitrobenzene		ND		0.00029	0.0050
Pentachlorophenol		ND		0.0022	0.010
Pyridine		ND		0.00041	0.025

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4,6-Tribromophenol	81		52 - 132
2-Fluorobiphenyl	76		48 - 120
2-Fluorophenol	38		20 - 120
Nitrobenzene-d5	75		46 - 120
Phenol-d5	28		16 - 120
p-Terphenyl-d14	87		67 - 150

Client: Sterling Environmental Engineering PC

Job Number: 480-58807-1

Client Sample ID: **P1-2(Sed)**

Lab Sample ID: 480-58807-2
Client Matrix: Solid

Date Sampled: 04/25/2014 0000
Date Received: 04/28/2014 0930

8270D Semivolatile Organic Compounds (GC/MS)-TCLP

Analysis Method:	8270D	Analysis Batch:	480-180978	Instrument ID:	HP5973V
Prep Method:	3510C	Prep Batch:	480-180799	Lab File ID:	V0244.D
Dilution:	1.0	Leach Batch:	480-180381	Initial Weight/Volume:	250 mL
Analysis Date:	05/08/2014 2146			Final Weight/Volume:	1 mL
Prep Date:	05/08/2014 0629			Injection Volume:	1 uL
Leach Date:	05/06/2014 1210				

Analyte	DryWt Corrected: N	Result (mg/L)	Qualifier	MDL	RL
1,4-Dichlorobenzene		ND		0.00046	0.010
2,4,5-Trichlorophenol		ND		0.00048	0.0050
2,4,6-Trichlorophenol		ND		0.00061	0.0050
2,4-Dinitrotoluene		ND		0.00045	0.0050
2-Methylphenol		ND		0.00040	0.0050
3-Methylphenol		ND	*	0.00040	0.010
4-Methylphenol		ND	*	0.00036	0.010
Hexachlorobenzene		ND		0.00051	0.0050
Hexachlorobutadiene		ND		0.00068	0.0050
Hexachloroethane		ND		0.00059	0.0050
Nitrobenzene		ND		0.00029	0.0050
Pentachlorophenol		ND		0.0022	0.010
Pyridine		ND		0.00041	0.025

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4,6-Tribromophenol	76		52 - 132
2-Fluorobiphenyl	78		48 - 120
2-Fluorophenol	39		20 - 120
Nitrobenzene-d5	78		46 - 120
Phenol-d5	30		16 - 120
p-Terphenyl-d14	88		67 - 150

Client: Sterling Environmental Engineering PC

Job Number: 480-58807-1

Client Sample ID: **P2-1(Sed)**

Lab Sample ID: 480-58807-3
Client Matrix: Solid

Date Sampled: 04/25/2014 0000
Date Received: 04/28/2014 0930

8270D Semivolatile Organic Compounds (GC/MS)-TCLP

Analysis Method:	8270D	Analysis Batch:	480-180978	Instrument ID:	HP5973V
Prep Method:	3510C	Prep Batch:	480-180799	Lab File ID:	V0245.D
Dilution:	1.0	Leach Batch:	480-180381	Initial Weight/Volume:	250 mL
Analysis Date:	05/08/2014 2210			Final Weight/Volume:	1 mL
Prep Date:	05/08/2014 0629			Injection Volume:	1 uL
Leach Date:	05/06/2014 1210				

Analyte	DryWt Corrected: N	Result (mg/L)	Qualifier	MDL	RL
1,4-Dichlorobenzene		ND		0.00046	0.010
2,4,5-Trichlorophenol		ND		0.00048	0.0050
2,4,6-Trichlorophenol		ND		0.00061	0.0050
2,4-Dinitrotoluene		ND		0.00045	0.0050
2-Methylphenol		ND		0.00040	0.0050
3-Methylphenol		ND	*	0.00040	0.010
4-Methylphenol		ND	*	0.00036	0.010
Hexachlorobenzene		ND		0.00051	0.0050
Hexachlorobutadiene		ND		0.00068	0.0050
Hexachloroethane		ND		0.00059	0.0050
Nitrobenzene		ND		0.00029	0.0050
Pentachlorophenol		ND		0.0022	0.010
Pyridine		ND		0.00041	0.025

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4,6-Tribromophenol	78		52 - 132
2-Fluorobiphenyl	74		48 - 120
2-Fluorophenol	41		20 - 120
Nitrobenzene-d5	75		46 - 120
Phenol-d5	29		16 - 120
p-Terphenyl-d14	86		67 - 150

Client: Sterling Environmental Engineering PC

Job Number: 480-58807-1

Client Sample ID: **P2-2(Sed)**

Lab Sample ID: 480-58807-4

Client Matrix: Solid

Date Sampled: 04/25/2014 0000

Date Received: 04/28/2014 0930

8270D Semivolatile Organic Compounds (GC/MS)-TCLP

Analysis Method:	8270D	Analysis Batch:	480-180978	Instrument ID:	HP5973V
Prep Method:	3510C	Prep Batch:	480-180799	Lab File ID:	V0246.D
Dilution:	1.0	Leach Batch:	480-180381	Initial Weight/Volume:	250 mL
Analysis Date:	05/08/2014 2235			Final Weight/Volume:	1 mL
Prep Date:	05/08/2014 0629			Injection Volume:	1 uL
Leach Date:	05/06/2014 1210				

Analyte	DryWt Corrected: N	Result (mg/L)	Qualifier	MDL	RL
1,4-Dichlorobenzene		ND		0.00046	0.010
2,4,5-Trichlorophenol		ND		0.00048	0.0050
2,4,6-Trichlorophenol		ND		0.00061	0.0050
2,4-Dinitrotoluene		ND		0.00045	0.0050
2-Methylphenol		ND		0.00040	0.0050
3-Methylphenol		ND	*	0.00040	0.010
4-Methylphenol		ND	*	0.00036	0.010
Hexachlorobenzene		ND		0.00051	0.0050
Hexachlorobutadiene		ND		0.00068	0.0050
Hexachloroethane		ND		0.00059	0.0050
Nitrobenzene		ND		0.00029	0.0050
Pentachlorophenol		ND		0.0022	0.010
Pyridine		ND		0.00041	0.025

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4,6-Tribromophenol	77		52 - 132
2-Fluorobiphenyl	80		48 - 120
2-Fluorophenol	43		20 - 120
Nitrobenzene-d5	82		46 - 120
Phenol-d5	31		16 - 120
p-Terphenyl-d14	86		67 - 150

Client: Sterling Environmental Engineering PC

Job Number: 480-58807-1

Client Sample ID: **P1-1(Sed)**

Lab Sample ID: 480-58807-1
Client Matrix: Solid

Date Sampled: 04/25/2014 0000
Date Received: 04/28/2014 0930

8081B Organochlorine Pesticides (GC)-TCLP

Analysis Method:	8081B	Analysis Batch:	480-181145	Instrument ID:	HP6890-5
Prep Method:	3510C	Prep Batch:	480-180803	Initial Weight/Volume:	250 mL
Dilution:	1.0	Leach Batch:	480-180381	Final Weight/Volume:	10 mL
Analysis Date:	05/09/2014 1150			Injection Volume:	1 uL
Prep Date:	05/08/2014 0712			Result Type:	PRIMARY
Leach Date:	05/06/2014 1210				

Analyte	DryWt Corrected: N	Result (mg/L)	Qualifier	MDL	RL
Chlordane (technical)		0.00051	J	0.000029	0.0020
Endrin		ND		0.000014	0.00020
gamma-BHC (Lindane)		0.000043	J B	0.0000060	0.00020
Heptachlor		ND		0.0000085	0.00020
Heptachlor epoxide		ND		0.0000053	0.00020
Methoxychlor		ND		0.000014	0.00020
Toxaphene		ND		0.00012	0.0020

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	60		20 - 120
Tetrachloro-m-xylene	80		36 - 120

Client: Sterling Environmental Engineering PC

Job Number: 480-58807-1

Client Sample ID: **P1-1(Sed)**

Lab Sample ID: 480-58807-1
Client Matrix: Solid

Date Sampled: 04/25/2014 0000
Date Received: 04/28/2014 0930

8081B Organochlorine Pesticides (GC)-TCLP

Analysis Method:	8081B	Analysis Batch:	480-181145	Instrument ID:	HP6890-5
Prep Method:	3510C	Prep Batch:	480-180803	Initial Weight/Volume:	250 mL
Dilution:	1.0	Leach Batch:	480-180381	Final Weight/Volume:	10 mL
Analysis Date:	05/09/2014 1150			Injection Volume:	1 uL
Prep Date:	05/08/2014 0712			Result Type:	SECONDARY
Leach Date:	05/06/2014 1210				

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	43		20 - 120
Tetrachloro-m-xylene	62		36 - 120

Client: Sterling Environmental Engineering PC

Job Number: 480-58807-1

Client Sample ID: **P1-2(Sed)**

Lab Sample ID: 480-58807-2
Client Matrix: Solid

Date Sampled: 04/25/2014 0000
Date Received: 04/28/2014 0930

8081B Organochlorine Pesticides (GC)-TCLP

Analysis Method:	8081B	Analysis Batch:	480-181145	Instrument ID:	HP6890-5
Prep Method:	3510C	Prep Batch:	480-180803	Initial Weight/Volume:	250 mL
Dilution:	1.0	Leach Batch:	480-180381	Final Weight/Volume:	10 mL
Analysis Date:	05/09/2014 1207			Injection Volume:	1 uL
Prep Date:	05/08/2014 0712			Result Type:	PRIMARY
Leach Date:	05/06/2014 1210				

Analyte	DryWt Corrected: N	Result (mg/L)	Qualifier	MDL	RL
Chlordane (technical)		0.00052	J	0.000029	0.0020
Endrin		ND		0.000014	0.00020
gamma-BHC (Lindane)		0.000043	J B	0.0000060	0.00020
Heptachlor		ND		0.0000085	0.00020
Heptachlor epoxide		0.000041	J	0.0000053	0.00020
Methoxychlor		ND		0.000014	0.00020
Toxaphene		ND		0.00012	0.0020

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	63		20 - 120
Tetrachloro-m-xylene	84		36 - 120

Client: Sterling Environmental Engineering PC

Job Number: 480-58807-1

Client Sample ID: **P1-2(Sed)**

Lab Sample ID: 480-58807-2
Client Matrix: Solid

Date Sampled: 04/25/2014 0000
Date Received: 04/28/2014 0930

8081B Organochlorine Pesticides (GC)-TCLP

Analysis Method:	8081B	Analysis Batch:	480-181145	Instrument ID:	HP6890-5
Prep Method:	3510C	Prep Batch:	480-180803	Initial Weight/Volume:	250 mL
Dilution:	1.0	Leach Batch:	480-180381	Final Weight/Volume:	10 mL
Analysis Date:	05/09/2014 1207			Injection Volume:	1 uL
Prep Date:	05/08/2014 0712			Result Type:	SECONDARY
Leach Date:	05/06/2014 1210				

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	50		20 - 120
Tetrachloro-m-xylene	66		36 - 120

Client: Sterling Environmental Engineering PC

Job Number: 480-58807-1

Client Sample ID: **P2-1(Sed)**

Lab Sample ID: 480-58807-3
Client Matrix: Solid

Date Sampled: 04/25/2014 0000
Date Received: 04/28/2014 0930

8081B Organochlorine Pesticides (GC)-TCLP

Analysis Method:	8081B	Analysis Batch:	480-181145	Instrument ID:	HP6890-5
Prep Method:	3510C	Prep Batch:	480-180803	Initial Weight/Volume:	250 mL
Dilution:	1.0	Leach Batch:	480-180381	Final Weight/Volume:	10 mL
Analysis Date:	05/09/2014 1225			Injection Volume:	1 uL
Prep Date:	05/08/2014 0712			Result Type:	PRIMARY
Leach Date:	05/06/2014 1210				

Analyte	DryWt Corrected: N	Result (mg/L)	Qualifier	MDL	RL
Chlordane (technical)		ND		0.000029	0.0020
Endrin		ND		0.000014	0.00020
gamma-BHC (Lindane)		ND		0.0000060	0.00020
Heptachlor		ND		0.0000085	0.00020
Heptachlor epoxide		ND		0.0000053	0.00020
Methoxychlor		ND		0.000014	0.00020
Toxaphene		ND		0.00012	0.0020

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	75		20 - 120
Tetrachloro-m-xylene	81		36 - 120

Client: Sterling Environmental Engineering PC

Job Number: 480-58807-1

Client Sample ID: **P2-1(Sed)**

Lab Sample ID: 480-58807-3
Client Matrix: Solid

Date Sampled: 04/25/2014 0000
Date Received: 04/28/2014 0930

8081B Organochlorine Pesticides (GC)-TCLP

Analysis Method:	8081B	Analysis Batch:	480-181145	Instrument ID:	HP6890-5
Prep Method:	3510C	Prep Batch:	480-180803	Initial Weight/Volume:	250 mL
Dilution:	1.0	Leach Batch:	480-180381	Final Weight/Volume:	10 mL
Analysis Date:	05/09/2014 1225			Injection Volume:	1 uL
Prep Date:	05/08/2014 0712			Result Type:	SECONDARY
Leach Date:	05/06/2014 1210				

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	57		20 - 120
Tetrachloro-m-xylene	61		36 - 120

Client: Sterling Environmental Engineering PC

Job Number: 480-58807-1

Client Sample ID: **P2-2(Sed)**

Lab Sample ID: 480-58807-4
Client Matrix: Solid

Date Sampled: 04/25/2014 0000
Date Received: 04/28/2014 0930

8081B Organochlorine Pesticides (GC)-TCLP

Analysis Method:	8081B	Analysis Batch:	480-181145	Instrument ID:	HP6890-5
Prep Method:	3510C	Prep Batch:	480-180803	Initial Weight/Volume:	250 mL
Dilution:	1.0	Leach Batch:	480-180381	Final Weight/Volume:	10 mL
Analysis Date:	05/09/2014 1242			Injection Volume:	1 uL
Prep Date:	05/08/2014 0712			Result Type:	PRIMARY
Leach Date:	05/06/2014 1210				

Analyte	DryWt Corrected: N	Result (mg/L)	Qualifier	MDL	RL
Chlordane (technical)		ND		0.000029	0.0020
Endrin		ND		0.000014	0.00020
gamma-BHC (Lindane)		ND		0.0000060	0.00020
Heptachlor		ND		0.0000085	0.00020
Heptachlor epoxide		ND		0.0000053	0.00020
Methoxychlor		ND		0.000014	0.00020
Toxaphene		ND		0.00012	0.0020

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	80		20 - 120
Tetrachloro-m-xylene	84		36 - 120

Client: Sterling Environmental Engineering PC

Job Number: 480-58807-1

Client Sample ID: **P2-2(Sed)**

Lab Sample ID: 480-58807-4
Client Matrix: Solid

Date Sampled: 04/25/2014 0000
Date Received: 04/28/2014 0930

8081B Organochlorine Pesticides (GC)-TCLP

Analysis Method:	8081B	Analysis Batch:	480-181145	Instrument ID:	HP6890-5
Prep Method:	3510C	Prep Batch:	480-180803	Initial Weight/Volume:	250 mL
Dilution:	1.0	Leach Batch:	480-180381	Final Weight/Volume:	10 mL
Analysis Date:	05/09/2014 1242			Injection Volume:	1 uL
Prep Date:	05/08/2014 0712			Result Type:	SECONDARY
Leach Date:	05/06/2014 1210				

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	62		20 - 120
Tetrachloro-m-xylene	63		36 - 120

Client: Sterling Environmental Engineering PC

Job Number: 480-58807-1

Client Sample ID: **P1-1(Sed)**

Lab Sample ID: 480-58807-1
Client Matrix: Solid
% Moisture: 15.0
Date Sampled: 04/25/2014 0000
Date Received: 04/28/2014 0930

8082A Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082A	Analysis Batch:	480-179084	Instrument ID:	PE-02
Prep Method:	3550C	Prep Batch:	480-178927	Initial Weight/Volume:	+2.08 g
Dilution:	1.0			Final Weight/Volume:	11 mL
Analysis Date:	04/30/2014 1422			Injection Volume:	1 uL
Prep Date:	04/29/2014 1237			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
PCB-1016		ND		0.061	0.31
PCB-1221		ND		0.061	0.31
PCB-1232		ND		0.061	0.31
PCB-1242		ND		0.061	0.31
PCB-1248		ND		0.061	0.31
PCB-1254		2.5		0.15	0.31
PCB-1260		1.3		0.15	0.31

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	92		46 - 175
DCB Decachlorobiphenyl	109		47 - 176

Client: Sterling Environmental Engineering PC

Job Number: 480-58807-1

Client Sample ID: **P1-1(Sed)**

Lab Sample ID: 480-58807-1
Client Matrix: Solid
% Moisture: 15.0
Date Sampled: 04/25/2014 0000
Date Received: 04/28/2014 0930

8082A Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082A	Analysis Batch:	480-179084	Instrument ID:	PE-02
Prep Method:	3550C	Prep Batch:	480-178927	Initial Weight/Volume:	+2.08 g
Dilution:	1.0			Final Weight/Volume:	11 mL
Analysis Date:	04/30/2014 1422			Injection Volume:	1 uL
Prep Date:	04/29/2014 1237			Result Type:	SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	84		46 - 175
DCB Decachlorobiphenyl	153		47 - 176

Client: Sterling Environmental Engineering PC

Job Number: 480-58807-1

Client Sample ID: **P1-2(Sed)**

Lab Sample ID: 480-58807-2
Client Matrix: Solid
% Moisture: 17.3

Date Sampled: 04/25/2014 0000
Date Received: 04/28/2014 0930

8082A Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082A	Analysis Batch:	480-179084	Instrument ID:	PE-02
Prep Method:	3550C	Prep Batch:	480-178927	Initial Weight/Volume:	+2.23 g
Dilution:	1.0			Final Weight/Volume:	11 mL
Analysis Date:	04/30/2014 1436			Injection Volume:	1 uL
Prep Date:	04/29/2014 1237			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
PCB-1016		ND		0.058	0.30
PCB-1221		ND		0.058	0.30
PCB-1232		ND		0.058	0.30
PCB-1242		ND		0.058	0.30
PCB-1248		ND		0.058	0.30
PCB-1254		0.84		0.14	0.30
PCB-1260		0.52		0.14	0.30

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	95		46 - 175
DCB Decachlorobiphenyl	125		47 - 176

Client: Sterling Environmental Engineering PC | Job Number: 480-58807-1

Client Sample ID: **P1-2(Sed)**

Lab Sample ID:	480-58807-2			Date Sampled:	04/25/2014 0000
Client Matrix:	Solid	% Moisture:	17.3	Date Received:	04/28/2014 0930

8082A Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082A	Analysis Batch:	480-179084	Instrument ID:	PE-02
Prep Method:	3550C	Prep Batch:	480-178927	Initial Weight/Volume:	+2.23 g
Dilution:	1.0			Final Weight/Volume:	11 mL
Analysis Date:	04/30/2014 1436			Injection Volume:	1 uL
Prep Date:	04/29/2014 1237			Result Type:	SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	86		46 - 175
DCB Decachlorobiphenyl	105		47 - 176

Client: Sterling Environmental Engineering PC | Job Number: 480-58807-1

Client Sample ID: **P2-1(Sed)**

Lab Sample ID: 480-58807-3 | Date Sampled: 04/25/2014 0000
Client Matrix: Solid | % Moisture: 12.6 | Date Received: 04/28/2014 0930

8082A Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082A	Analysis Batch:	480-179084	Instrument ID:	PE-02
Prep Method:	3550C	Prep Batch:	480-178927	Initial Weight/Volume:	+2.16 g
Dilution:	1.0			Final Weight/Volume:	10 mL
Analysis Date:	04/30/2014 1451			Injection Volume:	1 uL
Prep Date:	04/29/2014 1237			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
PCB-1016		ND		0.052	0.27
PCB-1221		ND		0.052	0.27
PCB-1232		ND		0.052	0.27
PCB-1242		ND		0.052	0.27
PCB-1248		ND		0.052	0.27
PCB-1254		ND		0.12	0.27
PCB-1260		ND		0.12	0.27

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	118		46 - 175
DCB Decachlorobiphenyl	137		47 - 176

Client: Sterling Environmental Engineering PC | Job Number: 480-58807-1

Client Sample ID: **P2-1(Sed)**

Lab Sample ID: 480-58807-3 | Date Sampled: 04/25/2014 0000
Client Matrix: Solid | % Moisture: 12.6 | Date Received: 04/28/2014 0930

8082A Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082A	Analysis Batch:	480-179084	Instrument ID:	PE-02
Prep Method:	3550C	Prep Batch:	480-178927	Initial Weight/Volume:	+2.16 g
Dilution:	1.0			Final Weight/Volume:	10 mL
Analysis Date:	04/30/2014 1451			Injection Volume:	1 uL
Prep Date:	04/29/2014 1237			Result Type:	SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	110		46 - 175
DCB Decachlorobiphenyl	133		47 - 176

Client: Sterling Environmental Engineering PC | Job Number: 480-58807-1

Client Sample ID: **P2-2(Sed)**

Lab Sample ID: 480-58807-4 | Date Sampled: 04/25/2014 0000
Client Matrix: Solid | % Moisture: 17.6 | Date Received: 04/28/2014 0930

8082A Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082A	Analysis Batch:	480-179084	Instrument ID:	PE-02
Prep Method:	3550C	Prep Batch:	480-178927	Initial Weight/Volume:	+2.56 g
Dilution:	1.0			Final Weight/Volume:	10 mL
Analysis Date:	04/30/2014 1505			Injection Volume:	1 uL
Prep Date:	04/29/2014 1237			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
PCB-1016		ND		0.046	0.24
PCB-1221		ND		0.046	0.24
PCB-1232		ND		0.046	0.24
PCB-1242		ND		0.046	0.24
PCB-1248		ND		0.046	0.24
PCB-1254		ND		0.11	0.24
PCB-1260		ND		0.11	0.24

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	126		46 - 175
DCB Decachlorobiphenyl	140		47 - 176

Client: Sterling Environmental Engineering PC

Job Number: 480-58807-1

Client Sample ID: **P2-2(Sed)**

Lab Sample ID: 480-58807-4
Client Matrix: Solid
% Moisture: 17.6

Date Sampled: 04/25/2014 0000
Date Received: 04/28/2014 0930

8082A Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082A	Analysis Batch:	480-179084	Instrument ID:	PE-02
Prep Method:	3550C	Prep Batch:	480-178927	Initial Weight/Volume:	+2.56 g
Dilution:	1.0			Final Weight/Volume:	10 mL
Analysis Date:	04/30/2014 1505			Injection Volume:	1 uL
Prep Date:	04/29/2014 1237			Result Type:	SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	112		46 - 175
DCB Decachlorobiphenyl	135		47 - 176

Client: Sterling Environmental Engineering PC

Job Number: 480-58807-1

Client Sample ID: **P1-1(Sed)**

Lab Sample ID: 480-58807-1
Client Matrix: Solid

Date Sampled: 04/25/2014 0000
Date Received: 04/28/2014 0930

8151 TCLP Herbicides-TCLP

Analysis Method:	8151	Analysis Batch:	480-181242	Instrument ID:	HP5890-13
Prep Method:	8151A	Prep Batch:	480-180800	Initial Weight/Volume:	250 mL
Dilution:	1.0	Leach Batch:	480-180381	Final Weight/Volume:	10 mL
Analysis Date:	05/12/2014 1336			Injection Volume:	1 uL
Prep Date:	05/08/2014 0641			Result Type:	PRIMARY
Leach Date:	05/06/2014 1210				

Analyte	DryWt Corrected: N	Result (mg/L)	Qualifier	MDL	RL
2,4-D		ND		0.00040	0.0020
Silvex (2,4,5-TP)		ND		0.00036	0.0020

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4-Dichlorophenylacetic acid	35	X	40 - 135

Client: Sterling Environmental Engineering PC

Job Number: 480-58807-1

Client Sample ID: **P1-1(Sed)**

Lab Sample ID: 480-58807-1
Client Matrix: Solid

Date Sampled: 04/25/2014 0000
Date Received: 04/28/2014 0930

8151 TCLP Herbicides-TCLP

Analysis Method:	8151	Analysis Batch:	480-181242	Instrument ID:	HP5890-13
Prep Method:	8151A	Prep Batch:	480-180800	Initial Weight/Volume:	250 mL
Dilution:	1.0	Leach Batch:	480-180381	Final Weight/Volume:	10 mL
Analysis Date:	05/12/2014 1336			Injection Volume:	1 uL
Prep Date:	05/08/2014 0641			Result Type:	SECONDARY
Leach Date:	05/06/2014 1210				

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4-Dichlorophenylacetic acid	39	X	40 - 135

Client: Sterling Environmental Engineering PC

Job Number: 480-58807-1

Client Sample ID: **P1-2(Sed)**

Lab Sample ID: 480-58807-2
Client Matrix: Solid

Date Sampled: 04/25/2014 0000
Date Received: 04/28/2014 0930

8151 TCLP Herbicides-TCLP

Analysis Method:	8151	Analysis Batch:	480-181242	Instrument ID:	HP5890-13
Prep Method:	8151A	Prep Batch:	480-180800	Initial Weight/Volume:	250 mL
Dilution:	1.0	Leach Batch:	480-180381	Final Weight/Volume:	10 mL
Analysis Date:	05/12/2014 1406			Injection Volume:	1 uL
Prep Date:	05/08/2014 0641			Result Type:	PRIMARY
Leach Date:	05/06/2014 1210				

Analyte	DryWt Corrected: N	Result (mg/L)	Qualifier	MDL	RL
2,4-D		ND		0.00040	0.0020
Silvex (2,4,5-TP)		ND		0.00036	0.0020

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4-Dichlorophenylacetic acid	36	X	40 - 135

Client: Sterling Environmental Engineering PC

Job Number: 480-58807-1

Client Sample ID: **P1-2(Sed)**

Lab Sample ID: 480-58807-2
Client Matrix: Solid

Date Sampled: 04/25/2014 0000
Date Received: 04/28/2014 0930

8151 TCLP Herbicides-TCLP

Analysis Method:	8151	Analysis Batch:	480-181242	Instrument ID:	HP5890-13
Prep Method:	8151A	Prep Batch:	480-180800	Initial Weight/Volume:	250 mL
Dilution:	1.0	Leach Batch:	480-180381	Final Weight/Volume:	10 mL
Analysis Date:	05/12/2014 1406			Injection Volume:	1 uL
Prep Date:	05/08/2014 0641			Result Type:	SECONDARY
Leach Date:	05/06/2014 1210				

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4-Dichlorophenylacetic acid	40		40 - 135

Client: Sterling Environmental Engineering PC

Job Number: 480-58807-1

Client Sample ID: **P2-1(Sed)**

Lab Sample ID: 480-58807-3
Client Matrix: Solid

Date Sampled: 04/25/2014 0000
Date Received: 04/28/2014 0930

8151 TCLP Herbicides-TCLP

Analysis Method:	8151	Analysis Batch:	480-181242	Instrument ID:	HP5890-13
Prep Method:	8151A	Prep Batch:	480-180800	Initial Weight/Volume:	250 mL
Dilution:	1.0	Leach Batch:	480-180381	Final Weight/Volume:	10 mL
Analysis Date:	05/12/2014 1435			Injection Volume:	1 uL
Prep Date:	05/08/2014 0641			Result Type:	PRIMARY
Leach Date:	05/06/2014 1210				

Analyte	DryWt Corrected: N	Result (mg/L)	Qualifier	MDL	RL
2,4-D		ND		0.00040	0.0020
Silvex (2,4,5-TP)		ND		0.00036	0.0020

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4-Dichlorophenylacetic acid	31	X	40 - 135

Client: Sterling Environmental Engineering PC

Job Number: 480-58807-1

Client Sample ID: **P2-1(Sed)**

Lab Sample ID: 480-58807-3
Client Matrix: Solid

Date Sampled: 04/25/2014 0000
Date Received: 04/28/2014 0930

8151 TCLP Herbicides-TCLP

Analysis Method:	8151	Analysis Batch:	480-181242	Instrument ID:	HP5890-13
Prep Method:	8151A	Prep Batch:	480-180800	Initial Weight/Volume:	250 mL
Dilution:	1.0	Leach Batch:	480-180381	Final Weight/Volume:	10 mL
Analysis Date:	05/12/2014 1435			Injection Volume:	1 uL
Prep Date:	05/08/2014 0641			Result Type:	SECONDARY
Leach Date:	05/06/2014 1210				

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4-Dichlorophenylacetic acid	32	X	40 - 135

Client: Sterling Environmental Engineering PC

Job Number: 480-58807-1

Client Sample ID: **P2-2(Sed)**

Lab Sample ID: 480-58807-4
Client Matrix: Solid

Date Sampled: 04/25/2014 0000
Date Received: 04/28/2014 0930

8151 TCLP Herbicides-TCLP

Analysis Method:	8151	Analysis Batch:	480-181242	Instrument ID:	HP5890-13
Prep Method:	8151A	Prep Batch:	480-180800	Initial Weight/Volume:	250 mL
Dilution:	1.0	Leach Batch:	480-180381	Final Weight/Volume:	10 mL
Analysis Date:	05/12/2014 1505			Injection Volume:	1 uL
Prep Date:	05/08/2014 0641			Result Type:	PRIMARY
Leach Date:	05/06/2014 1210				

Analyte	DryWt Corrected: N	Result (mg/L)	Qualifier	MDL	RL
2,4-D		ND		0.00040	0.0020
Silvex (2,4,5-TP)		ND		0.00036	0.0020

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4-Dichlorophenylacetic acid	31	X	40 - 135

Client: Sterling Environmental Engineering PC

Job Number: 480-58807-1

Client Sample ID: **P2-2(Sed)**

Lab Sample ID: 480-58807-4
Client Matrix: Solid

Date Sampled: 04/25/2014 0000
Date Received: 04/28/2014 0930

8151 TCLP Herbicides-TCLP

Analysis Method:	8151	Analysis Batch:	480-181242	Instrument ID:	HP5890-13
Prep Method:	8151A	Prep Batch:	480-180800	Initial Weight/Volume:	250 mL
Dilution:	1.0	Leach Batch:	480-180381	Final Weight/Volume:	10 mL
Analysis Date:	05/12/2014 1505			Injection Volume:	1 uL
Prep Date:	05/08/2014 0641			Result Type:	SECONDARY
Leach Date:	05/06/2014 1210				

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4-Dichlorophenylacetic acid	35	X	40 - 135

Client: Sterling Environmental Engineering PC

Job Number: 480-58807-1

Client Sample ID: **P1-1(Sed)**

Lab Sample ID: 480-58807-1
Client Matrix: Solid

Date Sampled: 04/25/2014 0000
Date Received: 04/28/2014 0930

6010C Metals (ICP)-TCLP

Analysis Method:	6010C	Analysis Batch:	480-179601	Instrument ID:	ICAP2
Prep Method:	3010A	Prep Batch:	480-179139	Lab File ID:	i2050114a-3.asc
Dilution:	1.0	Leach Batch:	480-178938	Initial Weight/Volume:	50 mL
Analysis Date:	05/01/2014 1544			Final Weight/Volume:	50 mL
Prep Date:	04/30/2014 1035				
Leach Date:	04/29/2014 1344				

Analyte	DryWt Corrected: N	Result (mg/L)	Qualifier	MDL	RL
Arsenic		ND		0.0056	0.015
Barium		1.1	B	0.00070	0.0020
Cadmium		0.024		0.00050	0.0020
Chromium		0.027	B	0.0010	0.0040
Lead		0.49		0.0030	0.010
Selenium		ND		0.0087	0.025
Silver		0.017		0.0017	0.0060

7470A TCLP Mercury-TCLP

Analysis Method:	7470A	Analysis Batch:	480-180600	Instrument ID:	LEEMAN2
Prep Method:	7470A	Prep Batch:	480-179227	Lab File ID:	H05014TC.PRN
Dilution:	1.0	Leach Batch:	480-178938	Initial Weight/Volume:	30 mL
Analysis Date:	05/01/2014 1155			Final Weight/Volume:	50 mL
Prep Date:	05/01/2014 0850				
Leach Date:	04/29/2014 1344				

Analyte	DryWt Corrected: N	Result (mg/L)	Qualifier	MDL	RL
Mercury		0.0081	*	0.00012	0.00020

Client: Sterling Environmental Engineering PC

Job Number: 480-58807-1

Client Sample ID: **P1-2(Sed)**

Lab Sample ID: 480-58807-2
Client Matrix: Solid

Date Sampled: 04/25/2014 0000
Date Received: 04/28/2014 0930

6010C Metals (ICP)-TCLP

Analysis Method:	6010C	Analysis Batch:	480-179601	Instrument ID:	ICAP2
Prep Method:	3010A	Prep Batch:	480-179139	Lab File ID:	i2050114a-3.asc
Dilution:	1.0	Leach Batch:	480-178938	Initial Weight/Volume:	50 mL
Analysis Date:	05/01/2014 1547			Final Weight/Volume:	50 mL
Prep Date:	04/30/2014 1035				
Leach Date:	04/29/2014 1344				

Analyte	DryWt Corrected: N	Result (mg/L)	Qualifier	MDL	RL
Arsenic		ND		0.0056	0.015
Barium		0.80	B	0.00070	0.0020
Cadmium		0.042		0.00050	0.0020
Chromium		0.0023	J B	0.0010	0.0040
Lead		0.084		0.0030	0.010
Selenium		ND		0.0087	0.025
Silver		ND		0.0017	0.0060

7470A TCLP Mercury-TCLP

Analysis Method:	7470A	Analysis Batch:	480-180600	Instrument ID:	LEEMAN2
Prep Method:	7470A	Prep Batch:	480-179227	Lab File ID:	H05014TC.PRN
Dilution:	1.0	Leach Batch:	480-178938	Initial Weight/Volume:	30 mL
Analysis Date:	05/01/2014 1157			Final Weight/Volume:	50 mL
Prep Date:	05/01/2014 0850				
Leach Date:	04/29/2014 1344				

Analyte	DryWt Corrected: N	Result (mg/L)	Qualifier	MDL	RL
Mercury		0.00014	J *	0.00012	0.00020

Client: Sterling Environmental Engineering PC

Job Number: 480-58807-1

Client Sample ID: **P2-1(Sed)**

Lab Sample ID: 480-58807-3
Client Matrix: Solid

Date Sampled: 04/25/2014 0000
Date Received: 04/28/2014 0930

6010C Metals (ICP)-TCLP

Analysis Method:	6010C	Analysis Batch:	480-179601	Instrument ID:	ICAP2
Prep Method:	3010A	Prep Batch:	480-179139	Lab File ID:	i2050114a-3.asc
Dilution:	1.0	Leach Batch:	480-178938	Initial Weight/Volume:	50 mL
Analysis Date:	05/01/2014 1550			Final Weight/Volume:	50 mL
Prep Date:	04/30/2014 1035				
Leach Date:	04/29/2014 1344				

Analyte	DryWt Corrected: N	Result (mg/L)	Qualifier	MDL	RL
Arsenic		ND		0.0056	0.015
Barium		0.46	B	0.00070	0.0020
Cadmium		0.0026		0.00050	0.0020
Chromium		0.0017	J B	0.0010	0.0040
Lead		0.18		0.0030	0.010
Selenium		ND		0.0087	0.025
Silver		ND		0.0017	0.0060

7470A TCLP Mercury-TCLP

Analysis Method:	7470A	Analysis Batch:	480-180600	Instrument ID:	LEEMAN2
Prep Method:	7470A	Prep Batch:	480-179227	Lab File ID:	H05014TC.PRN
Dilution:	1.0	Leach Batch:	480-178938	Initial Weight/Volume:	30 mL
Analysis Date:	05/01/2014 1202			Final Weight/Volume:	50 mL
Prep Date:	05/01/2014 0850				
Leach Date:	04/29/2014 1344				

Analyte	DryWt Corrected: N	Result (mg/L)	Qualifier	MDL	RL
Mercury		0.00022	*	0.00012	0.00020

Client: Sterling Environmental Engineering PC

Job Number: 480-58807-1

Client Sample ID: **P2-2(Sed)**

Lab Sample ID: 480-58807-4
Client Matrix: Solid

Date Sampled: 04/25/2014 0000
Date Received: 04/28/2014 0930

6010C Metals (ICP)-TCLP

Analysis Method:	6010C	Analysis Batch:	480-179601	Instrument ID:	ICAP2
Prep Method:	3010A	Prep Batch:	480-179139	Lab File ID:	i2050114a-3.asc
Dilution:	1.0	Leach Batch:	480-178938	Initial Weight/Volume:	50 mL
Analysis Date:	05/01/2014 1553			Final Weight/Volume:	50 mL
Prep Date:	04/30/2014 1035				
Leach Date:	04/29/2014 1344				

Analyte	DryWt Corrected: N	Result (mg/L)	Qualifier	MDL	RL
Arsenic		ND		0.0056	0.015
Barium		0.40	B	0.00070	0.0020
Cadmium		0.0026		0.00050	0.0020
Chromium		0.0016	J B	0.0010	0.0040
Lead		0.092		0.0030	0.010
Selenium		ND		0.0087	0.025
Silver		ND		0.0017	0.0060

7470A TCLP Mercury-TCLP

Analysis Method:	7470A	Analysis Batch:	480-180600	Instrument ID:	LEEMAN2
Prep Method:	7470A	Prep Batch:	480-179227	Lab File ID:	H05014TC.PRN
Dilution:	1.0	Leach Batch:	480-178938	Initial Weight/Volume:	30 mL
Analysis Date:	05/01/2014 1203			Final Weight/Volume:	50 mL
Prep Date:	05/01/2014 0850				
Leach Date:	04/29/2014 1344				

Analyte	DryWt Corrected: N	Result (mg/L)	Qualifier	MDL	RL
Mercury		0.00012	J *	0.00012	0.00020

General Chemistry

Client Sample ID: **P1-1(Sed)**

Lab Sample ID: 480-58807-1 Date Sampled: 04/25/2014 0000
Client Matrix: Solid Date Received: 04/28/2014 0930

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Cyanide, Reactive	ND		mg/Kg	0.0030	10.0	1.0	9012
Analysis Batch: 480-180033	Analysis Date: 05/05/2014 0638						DryWt Corrected: N
Prep Batch: 480-179770	Prep Date: 05/02/2014 0050						
Sulfide, Reactive	ND		mg/Kg	0.57	10.0	1.0	9034
Analysis Batch: 480-180094	Analysis Date: 05/05/2014 0930						DryWt Corrected: N
Prep Batch: 480-179766	Prep Date: 05/02/2014 0050						

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Flashpoint	>176.0		Degrees F	50.0	50.0	1.0	1010A
Analysis Batch: 480-179279	Analysis Date: 04/30/2014 0908						DryWt Corrected: N
pH	5.34		SU	0.100	0.100	1.0	9045D
Analysis Batch: 480-179029	Analysis Date: 04/29/2014 2150						DryWt Corrected: N
Percent Moisture	15		%	0.10	0.10	1.0	Moisture
Analysis Batch: 480-178745	Analysis Date: 04/28/2014 1628						DryWt Corrected: N
Percent Solids	85		%	0.10	0.10	1.0	Moisture
Analysis Batch: 480-178745	Analysis Date: 04/28/2014 1628						DryWt Corrected: N

General Chemistry

Client Sample ID: **P1-2(Sed)**

Lab Sample ID: 480-58807-2 Date Sampled: 04/25/2014 0000
Client Matrix: Solid Date Received: 04/28/2014 0930

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Cyanide, Reactive	ND		mg/Kg	0.0030	10.0	1.0	9012
Analysis Batch: 480-180033	Analysis Date: 05/05/2014 0639						DryWt Corrected: N
Prep Batch: 480-179770	Prep Date: 05/02/2014 0050						
Sulfide, Reactive	ND		mg/Kg	0.57	10.0	1.0	9034
Analysis Batch: 480-180094	Analysis Date: 05/05/2014 0930						DryWt Corrected: N
Prep Batch: 480-179766	Prep Date: 05/02/2014 0050						

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Flashpoint	>176.0		Degrees F	50.0	50.0	1.0	1010A
Analysis Batch: 480-179279	Analysis Date: 04/30/2014 0908						DryWt Corrected: N
pH	5.73		SU	0.100	0.100	1.0	9045D
Analysis Batch: 480-179029	Analysis Date: 04/29/2014 2150						DryWt Corrected: N
Percent Moisture	17		%	0.10	0.10	1.0	Moisture
Analysis Batch: 480-178745	Analysis Date: 04/28/2014 1628						DryWt Corrected: N
Percent Solids	83		%	0.10	0.10	1.0	Moisture
Analysis Batch: 480-178745	Analysis Date: 04/28/2014 1628						DryWt Corrected: N

General Chemistry

Client Sample ID: **P2-1(Sed)**

Lab Sample ID: 480-58807-3 Date Sampled: 04/25/2014 0000
Client Matrix: Solid Date Received: 04/28/2014 0930

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Cyanide, Reactive	ND		mg/Kg	0.0030	10.0	1.0	9012
Analysis Batch: 480-180033	Analysis Date: 05/05/2014 0640						DryWt Corrected: N
Prep Batch: 480-179770	Prep Date: 05/02/2014 0050						
Sulfide, Reactive	ND		mg/Kg	0.57	10.0	1.0	9034
Analysis Batch: 480-180094	Analysis Date: 05/05/2014 0930						DryWt Corrected: N
Prep Batch: 480-179766	Prep Date: 05/02/2014 0050						

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Flashpoint	>176.0		Degrees F	50.0	50.0	1.0	1010A
Analysis Batch: 480-179279	Analysis Date: 04/30/2014 0908						DryWt Corrected: N
pH	5.82		SU	0.100	0.100	1.0	9045D
Analysis Batch: 480-179029	Analysis Date: 04/29/2014 2150						DryWt Corrected: N
Percent Moisture	13		%	0.10	0.10	1.0	Moisture
Analysis Batch: 480-178745	Analysis Date: 04/28/2014 1628						DryWt Corrected: N
Percent Solids	87		%	0.10	0.10	1.0	Moisture
Analysis Batch: 480-178745	Analysis Date: 04/28/2014 1628						DryWt Corrected: N

General Chemistry

Client Sample ID: **P2-2(Sed)**

Lab Sample ID: 480-58807-4 Date Sampled: 04/25/2014 0000
Client Matrix: Solid Date Received: 04/28/2014 0930

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Cyanide, Reactive	ND		mg/Kg	0.0030	10.0	1.0	9012
Analysis Batch: 480-180033	Analysis Date: 05/05/2014 0642						DryWt Corrected: N
Prep Batch: 480-179770	Prep Date: 05/02/2014 0050						
Sulfide, Reactive	ND		mg/Kg	0.57	10.0	1.0	9034
Analysis Batch: 480-180094	Analysis Date: 05/05/2014 0930						DryWt Corrected: N
Prep Batch: 480-179766	Prep Date: 05/02/2014 0050						

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Flashpoint	>176.0		Degrees F	50.0	50.0	1.0	1010A
Analysis Batch: 480-179279	Analysis Date: 04/30/2014 0908						DryWt Corrected: N
pH	6.58		SU	0.100	0.100	1.0	9045D
Analysis Batch: 480-179029	Analysis Date: 04/29/2014 2150						DryWt Corrected: N
Percent Moisture	18		%	0.10	0.10	1.0	Moisture
Analysis Batch: 480-178745	Analysis Date: 04/28/2014 1628						DryWt Corrected: N
Percent Solids	82		%	0.10	0.10	1.0	Moisture
Analysis Batch: 480-178745	Analysis Date: 04/28/2014 1628						DryWt Corrected: N

Client: Sterling Environmental Engineering PC

Job Number: 480-58807-1

Surrogate Recovery Report

8260C TCLP Volatiles

Client Matrix: Solid TCLP

Lab Sample ID	Client Sample ID	DCA %Rec	TOL %Rec	BFB %Rec
480-58807-1	P1-1(Sed)	98	100	104
480-58807-2	P1-2(Sed)	96	100	101
480-58807-3	P2-1(Sed)	98	98	101
480-58807-4	P2-2(Sed)	99	99	99
MB 480-179119/7		100	100	101
LB 480-178952/1-A		98	98	104
LCS 480-179119/5		95	101	101

Surrogate	Acceptance Limits
DCA = 1,2-Dichloroethane-d4 (Surr)	66-137
TOL = Toluene-d8 (Surr)	71-126
BFB = 4-Bromofluorobenzene (Surr)	73-120

Client: Sterling Environmental Engineering PC

Job Number: 480-58807-1

Surrogate Recovery Report

8270D Semivolatile Organic Compounds (GC/MS)

Client Matrix: Solid TCLP

Lab Sample ID	Client Sample ID	2FP %Rec	PHL %Rec	NBZ %Rec	FBP %Rec	TBP %Rec	TPH %Rec
480-58807-1	P1-1(Sed)	38	28	75	76	81	87
480-58807-2	P1-2(Sed)	39	30	78	78	76	88
480-58807-3	P2-1(Sed)	41	29	75	74	78	86
480-58807-4	P2-2(Sed)	43	31	82	80	77	86
MB 480-180799/1-A		52	34	83	79	70	84
LB 480-180381/1-D		38	26	71	71	80	89
LCS 480-180799/2-A		51	36	88	88	79	88
LCSD 480-180799/3-A		51	37	85	85	82	90

Surrogate	Acceptance Limits
2FP = 2-Fluorophenol	20-120
PHL = Phenol-d5	16-120
NBZ = Nitrobenzene-d5	46-120
FBP = 2-Fluorobiphenyl	48-120
TBP = 2,4,6-Tribromophenol	52-132
TPH = p-Terphenyl-d14	67-150

Client: Sterling Environmental Engineering PC

Job Number: 480-58807-1

Surrogate Recovery Report

8081B Organochlorine Pesticides (GC)

Client Matrix: Solid TCLP

Lab Sample ID	Client Sample ID	TCX1 %Rec	TCX2 %Rec	DCB1 %Rec	DCB2 %Rec
480-58807-1	P1-1(Sed)	62	80	43	60
480-58807-2	P1-2(Sed)	66	84	50	63
480-58807-3	P2-1(Sed)	61	81	57	75
480-58807-4	P2-2(Sed)	63	84	62	80
MB 480-180803/1-A		66	82	49	63
LB 480-180381/1-F		66	76	64	80
LCS 480-180803/2-A		72	87	63	72
LCSD 480-180803/3-A		74	90	34	64

Surrogate	Acceptance Limits
TCX = Tetrachloro-m-xylene	36-120
DCB = DCB Decachlorobiphenyl	20-120

Client: Sterling Environmental Engineering PC

Job Number: 480-58807-1

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
480-58807-1	P1-1(Sed)	92	84	109	153
480-58807-2	P1-2(Sed)	95	86	125	105
480-58807-3	P2-1(Sed)	118	110	137	133
480-58807-4	P2-2(Sed)	126	112	140	135
MB 480-178927/1-A		115	107	133	135
LCS 480-178927/2-A		141	131	148	144

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

Client: Sterling Environmental Engineering PC

Job Number: 480-58807-1

Surrogate Recovery Report

8151 TCLP Herbicides

Client Matrix: Solid TCLP

Lab Sample ID	Client Sample ID	DCPA1 %Rec	DCPA2 %Rec
480-58807-1	P1-1(Sed)	35X	39X
480-58807-2	P1-2(Sed)	36X	40
480-58807-3	P2-1(Sed)	31X	32X
480-58807-4	P2-2(Sed)	31X	35X
MB 480-180800/1-A		97	102
LB 480-180381/1-E		33X	34X
LCS 480-180800/2-A		104	105
LCSD 480-180800/3-A		99	89

Surrogate	Acceptance Limits
DCPA = 2,4-Dichlorophenylacetic acid	40-135

Method Blank - Batch: 480-179119

Method: 8260C
Preparation: 5030C

Lab Sample ID:	MB 480-179119/7	Analysis Batch:	480-179119	Instrument ID:	HP5973G
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	G29940.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	04/30/2014 1325	Units:	mg/L	Final Weight/Volume:	5 mL
Prep Date:	04/30/2014 1325				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
1,1-Dichloroethene	ND		0.00029	0.0010
1,2-Dichloroethane	ND		0.00021	0.0010
2-Butanone (MEK)	ND		0.0013	0.0050
Benzene	ND		0.00041	0.0010
Carbon tetrachloride	ND		0.00027	0.0010
Chlorobenzene	ND		0.00075	0.0010
Chloroform	ND		0.00034	0.0010
Tetrachloroethene	ND		0.00036	0.0010
Trichloroethene	ND		0.00046	0.0010
Vinyl chloride	ND		0.00090	0.0010

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	100	66 - 137
4-Bromofluorobenzene (Surr)	101	73 - 120
Toluene-d8 (Surr)	100	71 - 126

TCLP SPLPE Leachate Blank - Batch: 480-179119

Method: 8260C
Preparation: 5030C
TCLP

Lab Sample ID:	LB 480-178952/1-A	Analysis Batch:	480-179119	Instrument ID:	HP5973G
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	G29949.D
Dilution:	10	Leach Batch:	480-178952	Initial Weight/Volume:	5 mL
Analysis Date:	04/30/2014 1650	Units:	mg/L	Final Weight/Volume:	5 mL
Prep Date:	04/30/2014 1650				
Leach Date:	04/29/2014 1432				

Analyte	Result	Qual	MDL	RL
1,1-Dichloroethene	ND		0.0029	0.010
1,2-Dichloroethane	ND		0.0021	0.010
2-Butanone (MEK)	ND		0.013	0.050
Benzene	ND		0.0041	0.010
Carbon tetrachloride	ND		0.0027	0.010
Chlorobenzene	ND		0.0075	0.010
Chloroform	ND		0.0034	0.010
Tetrachloroethene	ND		0.0036	0.010
Trichloroethene	ND		0.0046	0.010
Vinyl chloride	ND		0.0090	0.010

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	98	66 - 137
4-Bromofluorobenzene (Surr)	104	73 - 120
Toluene-d8 (Surr)	98	71 - 126

Client: Sterling Environmental Engineering PC

Job Number: 480-58807-1

Lab Control Sample - Batch: 480-179119

Method: 8260C
Preparation: 5030C

Lab Sample ID:	LCS 480-179119/5	Analysis Batch:	480-179119	Instrument ID:	HP5973G
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	G29938.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	04/30/2014 1239	Units:	mg/L	Final Weight/Volume:	5 mL
Prep Date:	04/30/2014 1239				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
1,1-Dichloroethene	0.0250	0.0230	92	58 - 121	
1,2-Dichloroethane	0.0250	0.0226	90	75 - 127	
Benzene	0.0250	0.0229	91	71 - 124	
Chlorobenzene	0.0250	0.0236	94	72 - 120	
Tetrachloroethene	0.0250	0.0241	96	74 - 122	
Trichloroethene	0.0250	0.0225	90	74 - 123	

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	95	66 - 137
4-Bromofluorobenzene (Surr)	101	73 - 120
Toluene-d8 (Surr)	101	71 - 126

Client: Sterling Environmental Engineering PC

Job Number: 480-58807-1

Method Blank - Batch: 480-180799

Method: 8270D
Preparation: 3510C

Lab Sample ID:	MB 480-180799/1-A	Analysis Batch:	480-180978	Instrument ID:	HP5973V
Client Matrix:	Water	Prep Batch:	480-180799	Lab File ID:	V0230.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1000 mL
Analysis Date:	05/08/2014 1605	Units:	mg/L	Final Weight/Volume:	1 mL
Prep Date:	05/08/2014 0629			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
1,4-Dichlorobenzene	ND		0.00012	0.0025
2,4,5-Trichlorophenol	ND		0.00012	0.0013
2,4,6-Trichlorophenol	ND		0.00015	0.0013
2,4-Dinitrotoluene	ND		0.00011	0.0013
2-Methylphenol	ND		0.00010	0.0013
3-Methylphenol	ND		0.00010	0.0025
4-Methylphenol	ND		0.000090	0.0025
Hexachlorobenzene	ND		0.00013	0.0013
Hexachlorobutadiene	ND		0.00017	0.0013
Hexachloroethane	ND		0.00015	0.0013
Nitrobenzene	ND		0.000073	0.0013
Pentachlorophenol	ND		0.00055	0.0025
Pyridine	ND		0.00010	0.0063

Surrogate	% Rec	Acceptance Limits
2,4,6-Tribromophenol	70	52 - 132
2-Fluorobiphenyl	79	48 - 120
2-Fluorophenol	52	20 - 120
Nitrobenzene-d5	83	46 - 120
Phenol-d5	34	16 - 120
p-Terphenyl-d14	84	67 - 150

Client: Sterling Environmental Engineering PC

Job Number: 480-58807-1

TCLP SPLPE Leachate Blank - Batch: 480-180799

Method: 8270D
Preparation: 3510C
TCLP

Lab Sample ID:	LB 480-180381/1-D	Analysis Batch:	480-180978	Instrument ID:	HP5973V
Client Matrix:	Solid	Prep Batch:	480-180799	Lab File ID:	V0234.D
Dilution:	1.0	Leach Batch:	480-180381	Initial Weight/Volume:	250 mL
Analysis Date:	05/08/2014 1743	Units:	mg/L	Final Weight/Volume:	1 mL
Prep Date:	05/08/2014 0629			Injection Volume:	1 uL
Leach Date:	05/06/2014 1210				

Analyte	Result	Qual	MDL	RL
1,4-Dichlorobenzene	ND		0.00046	0.010
2,4,5-Trichlorophenol	ND		0.00048	0.0050
2,4,6-Trichlorophenol	ND		0.00061	0.0050
2,4-Dinitrotoluene	ND		0.00045	0.0050
2-Methylphenol	ND		0.00040	0.0050
3-Methylphenol	ND		0.00040	0.010
4-Methylphenol	ND		0.00036	0.010
Hexachlorobenzene	ND		0.00051	0.0050
Hexachlorobutadiene	ND		0.00068	0.0050
Hexachloroethane	ND		0.00059	0.0050
Nitrobenzene	ND		0.00029	0.0050
Pentachlorophenol	ND		0.0022	0.010
Pyridine	ND		0.00041	0.025

Surrogate	% Rec	Acceptance Limits
2,4,6-Tribromophenol	80	52 - 132
2-Fluorobiphenyl	71	48 - 120
2-Fluorophenol	38	20 - 120
Nitrobenzene-d5	71	46 - 120
Phenol-d5	26	16 - 120
p-Terphenyl-d14	89	67 - 150

Client: Sterling Environmental Engineering PC

Job Number: 480-58807-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 480-180799

Method: 8270D
Preparation: 3510C

LCS Lab Sample ID:	LCS 480-180799/2-A	Analysis Batch:	480-180978	Instrument ID:	HP5973V
Client Matrix:	Water	Prep Batch:	480-180799	Lab File ID:	V0231.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1000 mL
Analysis Date:	05/08/2014 1630	Units:	mg/L	Final Weight/Volume:	1 mL
Prep Date:	05/08/2014 0629			Injection Volume:	1 uL
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 480-180799/3-A	Analysis Batch:	480-180978	Instrument ID:	HP5973V
Client Matrix:	Water	Prep Batch:	480-180799	Lab File ID:	V0232.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1000 mL
Analysis Date:	05/08/2014 1655	Units:	mg/L	Final Weight/Volume:	1 mL
Prep Date:	05/08/2014 0629			Injection Volume:	1 uL
Leach Date:	N/A				

	% Rec.					
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
1,4-Dichlorobenzene	63	65	32 - 120	2	36		
2,4-Dinitrotoluene	102	99	65 - 154	3	20		
Hexachloroethane	63	59	14 - 101	5	46		
Pentachlorophenol	72	73	39 - 136	1	37		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
2,4,6-Tribromophenol	79	82	52 - 132
2-Fluorobiphenyl	88	85	48 - 120
2-Fluorophenol	51	51	20 - 120
Nitrobenzene-d5	88	85	46 - 120
Phenol-d5	36	37	16 - 120
p-Terphenyl-d14	88	90	67 - 150

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 480-180799

Method: 8270D
Preparation: 3510C

LCS Lab Sample ID:	LCS 480-180799/2-A	Units:	mg/L	LCSD Lab Sample ID:	LCSD 480-180799/3-A
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	05/08/2014 1630			Analysis Date:	05/08/2014 1655
Prep Date:	05/08/2014 0629			Prep Date:	05/08/2014 0629
Leach Date:	N/A			Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
1,4-Dichlorobenzene	0.0500	0.0500	0.0317	0.0323
2,4-Dinitrotoluene	0.0500	0.0500	0.0508	0.0494
Hexachloroethane	0.0500	0.0500	0.0313	0.0297
Pentachlorophenol	0.100	0.100	0.0722	0.0728

Method Blank - Batch: 480-180803

Method: 8081B
Preparation: 3510C

Lab Sample ID:	MB 480-180803/1-A	Analysis Batch:	480-181145	Instrument ID:	HP6890-5
Client Matrix:	Water	Prep Batch:	480-180803	Lab File ID:	5_10111.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1000 mL
Analysis Date:	05/09/2014 1022	Units:	mg/L	Final Weight/Volume:	10 mL
Prep Date:	05/08/2014 0712			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Result	Qual	MDL	RL
Chlordane (technical)	ND		0.0000073	0.00050
Endrin	ND		0.0000035	0.000050
gamma-BHC (Lindane)	ND		0.0000015	0.000050
Heptachlor	ND		0.0000021	0.000050
Heptachlor epoxide	ND		0.0000013	0.000050
Methoxychlor	ND		0.0000035	0.000050
Toxaphene	ND		0.000030	0.00050

Surrogate	% Rec	Acceptance Limits
DCB Decachlorobiphenyl	63	20 - 120
Tetrachloro-m-xylene	82	36 - 120

Surrogate	% Rec	Acceptance Limits
DCB Decachlorobiphenyl	49	20 - 120
Tetrachloro-m-xylene	66	36 - 120

TCLP SPLPE Leachate Blank - Batch: 480-180803

Method: 8081B
Preparation: 3510C
TCLP

Lab Sample ID:	LB 480-180381/1-F	Analysis Batch:	480-181145	Instrument ID:	HP6890-5
Client Matrix:	Solid	Prep Batch:	480-180803	Lab File ID:	5_10114.D
Dilution:	1.0	Leach Batch:	480-180381	Initial Weight/Volume:	250 mL
Analysis Date:	05/09/2014 1115	Units:	mg/L	Final Weight/Volume:	10 mL
Prep Date:	05/08/2014 0712			Injection Volume:	1 uL
Leach Date:	05/06/2014 1210			Column ID:	PRIMARY

Analyte	Result	Qual	MDL	RL
Chlordane (technical)	ND		0.000029	0.0020
Endrin	ND		0.000014	0.00020
gamma-BHC (Lindane)	0.0000465	J	0.0000060	0.00020
Heptachlor	ND		0.0000085	0.00020
Heptachlor epoxide	ND		0.0000053	0.00020
Methoxychlor	ND		0.000014	0.00020
Toxaphene	ND		0.00012	0.0020

Surrogate	% Rec	Acceptance Limits
DCB Decachlorobiphenyl	80	20 - 120
Tetrachloro-m-xylene	76	36 - 120

Client: Sterling Environmental Engineering PC Job Number: 480-58807-1

Surrogate	% Rec	Acceptance Limits
DCB Decachlorobiphenyl	64	20 - 120
Tetrachloro-m-xylene	66	36 - 120

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 480-180803

Method: 8081B
Preparation: 3510C

LCS Lab Sample ID:	LCS 480-180803/2-A	Analysis Batch:	480-181145	Instrument ID:	HP6890-5
Client Matrix:	Water	Prep Batch:	480-180803	Lab File ID:	5_10112.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1000 mL
Analysis Date:	05/09/2014 1040	Units:	mg/L	Final Weight/Volume:	10 mL
Prep Date:	05/08/2014 0712			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

LCSD Lab Sample ID:	LCSD 480-180803/3-A	Analysis Batch:	480-181145	Instrument ID:	HP6890-5
Client Matrix:	Water	Prep Batch:	480-180803	Lab File ID:	5_10113.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1000 mL
Analysis Date:	05/09/2014 1057	Units:	mg/L	Final Weight/Volume:	10 mL
Prep Date:	05/08/2014 0712			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Endrin	109	110	52 - 143	1	24		
gamma-BHC (Lindane)	99	100	56 - 127	1	24		
Heptachlor	101	99	51 - 125	2	25		
Heptachlor epoxide	102	103	50 - 140	0	23		
Methoxychlor	107	105	50 - 151	1	26		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
DCB Decachlorobiphenyl	72	64	20 - 120
Tetrachloro-m-xylene	87	90	36 - 120

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
DCB Decachlorobiphenyl	63	34	20 - 120
Tetrachloro-m-xylene	72	74	36 - 120

Client: Sterling Environmental Engineering PC

Job Number: 480-58807-1

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 480-180803

Method: 8081B
Preparation: 3510C

LCS Lab Sample ID:	LCS 480-180803/2-A	Units:	mg/L	LCSD Lab Sample ID:	LCSD 480-180803/3-A
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	05/09/2014 1040			Analysis Date:	05/09/2014 1057
Prep Date:	05/08/2014 0712			Prep Date:	05/08/2014 0712
Leach Date:	N/A			Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Endrin	0.000500	0.000500	0.000546	0.000551
gamma-BHC (Lindane)	0.000500	0.000500	0.000497	0.000502
Heptachlor	0.000500	0.000500	0.000506	0.000495
Heptachlor epoxide	0.000500	0.000500	0.000512	0.000514
Methoxychlor	0.000500	0.000500	0.000535	0.000527

Client: Sterling Environmental Engineering PC

Job Number: 480-58807-1

Method Blank - Batch: 480-178927

Method: 8082A
Preparation: 3550C

Lab Sample ID:	MB 480-178927/1-A	Analysis Batch:	480-179084	Instrument ID:	PE-02
Client Matrix:	Solid	Prep Batch:	480-178927	Lab File ID:	PE02_49_025.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	+2.16 g
Analysis Date:	04/30/2014 1045	Units:	mg/Kg	Final Weight/Volume:	10 mL
Prep Date:	04/29/2014 1237			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Result	Qual	MDL	RL
PCB-1016	ND		0.045	0.23
PCB-1221	ND		0.045	0.23
PCB-1232	ND		0.045	0.23
PCB-1242	ND		0.045	0.23
PCB-1248	ND		0.045	0.23
PCB-1254	ND		0.11	0.23
PCB-1260	ND		0.11	0.23

Surrogate	% Rec	Acceptance Limits
Tetrachloro-m-xylene	115	46 - 175
DCB Decachlorobiphenyl	133	47 - 176

Surrogate	% Rec	Acceptance Limits
Tetrachloro-m-xylene	107	46 - 175
DCB Decachlorobiphenyl	135	47 - 176

Lab Control Sample - Batch: 480-178927

Method: 8082A
Preparation: 3550C

Lab Sample ID:	LCS 480-178927/2-A	Analysis Batch:	480-179084	Instrument ID:	PE-02
Client Matrix:	Solid	Prep Batch:	480-178927	Lab File ID:	PE02_49_026.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	+2.68 g
Analysis Date:	04/30/2014 1100	Units:	mg/Kg	Final Weight/Volume:	10 mL
Prep Date:	04/29/2014 1237			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
PCB-1016	1.87	2.32	124	51 - 185	
PCB-1260	1.87	2.28	122	61 - 184	

Surrogate	% Rec	Acceptance Limits
Tetrachloro-m-xylene	141	46 - 175
DCB Decachlorobiphenyl	148	47 - 176

Surrogate	% Rec	Acceptance Limits
Tetrachloro-m-xylene	131	46 - 175
DCB Decachlorobiphenyl	144	47 - 176

Method Blank - Batch: 480-180800

Method: 8151
Preparation: 8151A

Lab Sample ID:	MB 480-180800/1-A	Analysis Batch:	480-181242	Instrument ID:	HP5890-13
Client Matrix:	Water	Prep Batch:	480-180800	Lab File ID:	13_59003.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1000 mL
Analysis Date:	05/12/2014 1137	Units:	mg/L	Final Weight/Volume:	10 mL
Prep Date:	05/08/2014 0641			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Result	Qual	MDL	RL
2,4-D	ND		0.00010	0.00050
Silvex (2,4,5-TP)	ND		0.000090	0.00050

Surrogate	% Rec	Acceptance Limits
2,4-Dichlorophenylacetic acid	97	40 - 135

Surrogate	% Rec	Acceptance Limits
2,4-Dichlorophenylacetic acid	102	40 - 135

TCLP SPLPE Leachate Blank - Batch: 480-180800

Method: 8151
Preparation: 8151A
TCLP

Lab Sample ID:	LB 480-180381/1-E	Analysis Batch:	480-181242	Instrument ID:	HP5890-13
Client Matrix:	Solid	Prep Batch:	480-180800	Lab File ID:	13_59006.D
Dilution:	1.0	Leach Batch:	480-180381	Initial Weight/Volume:	250 mL
Analysis Date:	05/12/2014 1306	Units:	mg/L	Final Weight/Volume:	10 mL
Prep Date:	05/08/2014 0641			Injection Volume:	1 uL
Leach Date:	05/06/2014 1210			Column ID:	PRIMARY

Analyte	Result	Qual	MDL	RL
2,4-D	ND		0.00040	0.0020
Silvex (2,4,5-TP)	ND		0.00036	0.0020

Surrogate	% Rec		Acceptance Limits
2,4-Dichlorophenylacetic acid	33	X	40 - 135

Surrogate	% Rec		Acceptance Limits
2,4-Dichlorophenylacetic acid	34	X	40 - 135

Client: Sterling Environmental Engineering PC

Job Number: 480-58807-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 480-180800

Method: 8151
Preparation: 8151A

LCS Lab Sample ID:	LCS 480-180800/2-A	Analysis Batch:	480-181242	Instrument ID:	HP5890-13
Client Matrix:	Water	Prep Batch:	480-180800	Lab File ID:	13_59004.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1000 mL
Analysis Date:	05/12/2014 1207	Units:	mg/L	Final Weight/Volume:	10 mL
Prep Date:	05/08/2014 0641			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

LCSD Lab Sample ID:	LCSD 480-180800/3-A	Analysis Batch:	480-181242	Instrument ID:	HP5890-13
Client Matrix:	Water	Prep Batch:	480-180800	Lab File ID:	13_59005.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1000 mL
Analysis Date:	05/12/2014 1237	Units:	mg/L	Final Weight/Volume:	10 mL
Prep Date:	05/08/2014 0641			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
2,4-D	69	95	39 - 157	31	50		
Silvex (2,4,5-TP)	77	85	35 - 173	11	50		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
2,4-Dichlorophenylacetic acid	104	99	40 - 135

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
2,4-Dichlorophenylacetic acid	105	89	40 - 135

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 480-180800

Method: 8151
Preparation: 8151A

LCS Lab Sample ID:	LCS 480-180800/2-A	Units:	mg/L	LCSD Lab Sample ID:	LCSD 480-180800/3-A
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	05/12/2014 1207			Analysis Date:	05/12/2014 1237
Prep Date:	05/08/2014 0641			Prep Date:	05/08/2014 0641
Leach Date:	N/A			Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
2,4-D	0.00200	0.00200	0.00138	0.00189
Silvex (2,4,5-TP)	0.00200	0.00200	0.00153	0.00171

Client: Sterling Environmental Engineering PC

Job Number: 480-58807-1

TCLP SPLPE Leachate Blank - Batch: 480-179139

Method: 6010C
Preparation: 3010A
TCLP

Lab Sample ID:	LB 480-178938/1-B	Analysis Batch:	480-179601	Instrument ID:	ICAP2
Client Matrix:	Solid	Prep Batch:	480-179139	Lab File ID:	i2050114a-3.asc
Dilution:	1.0	Leach Batch:	480-178938	Initial Weight/Volume:	50 mL
Analysis Date:	05/01/2014 1449	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	04/30/2014 1035				
Leach Date:	04/29/2014 1344				

Analyte	Result	Qual	MDL	RL
Arsenic	ND		0.0056	0.015
Barium	0.00406		0.00070	0.0020
Cadmium	ND		0.00050	0.0020
Chromium	0.00234	J	0.0010	0.0040
Lead	ND		0.0030	0.010
Selenium	ND		0.0087	0.025
Silver	ND		0.0017	0.0060

Method Blank - Batch: 480-179139

Method: 6010C
Preparation: 3010A

Lab Sample ID:	MB 480-179139/2-A	Analysis Batch:	480-179601	Instrument ID:	ICAP2
Client Matrix:	Water	Prep Batch:	480-179139	Lab File ID:	i2050114a-3.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	05/01/2014 1452	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	04/30/2014 1035				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Arsenic	ND		0.0056	0.015
Barium	ND		0.00070	0.0020
Cadmium	ND		0.00050	0.0020
Chromium	ND		0.0010	0.0040
Lead	ND		0.0030	0.010
Selenium	ND		0.0087	0.025
Silver	ND		0.0017	0.0060

Client: Sterling Environmental Engineering PC

Job Number: 480-58807-1

Lab Control Sample - Batch: 480-179139

Method: 6010C
Preparation: 3010A

Lab Sample ID:	LCS 480-179139/3-A	Analysis Batch:	480-179601	Instrument ID:	ICAP2
Client Matrix:	Water	Prep Batch:	480-179139	Lab File ID:	i2050114a-3.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	05/01/2014 1455	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	04/30/2014 1035				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Arsenic	1.00	1.09	109	80 - 120	
Barium	1.00	0.970	97	80 - 120	
Cadmium	1.00	1.04	104	80 - 120	
Chromium	1.00	0.994	99	80 - 120	
Lead	1.00	1.02	102	80 - 120	
Selenium	1.00	1.10	110	80 - 120	
Silver	1.00	1.05	105	80 - 120	

TCLP SPLPE Leachate Blank - Batch: 480-179227

Method: 7470A
Preparation: 7470A
TCLP

Lab Sample ID:	LB 480-178938/1-C	Analysis Batch:	480-180600	Instrument ID:	LEEMAN2
Client Matrix:	Solid	Prep Batch:	480-179227	Lab File ID:	H05014TC.PRN
Dilution:	1.0	Leach Batch:	480-178938	Initial Weight/Volume:	30 mL
Analysis Date:	05/01/2014 1131	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	05/01/2014 0850				
Leach Date:	04/29/2014 1344				

Analyte	Result	Qual	MDL	RL
Mercury	ND		0.00012	0.00020

Method Blank - Batch: 480-179227

Method: 7470A
Preparation: 7470A

Lab Sample ID:	MB 480-179227/2-A	Analysis Batch:	480-180600	Instrument ID:	LEEMAN2
Client Matrix:	Water	Prep Batch:	480-179227	Lab File ID:	H05014TC.PRN
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30 mL
Analysis Date:	05/01/2014 1132	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	05/01/2014 0850				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Mercury	ND		0.00012	0.00020

Lab Control Sample - Batch: 480-179227

Method: 7470A
Preparation: 7470A

Lab Sample ID:	LCS 480-179227/3-A	Analysis Batch:	480-180600	Instrument ID:	LEEMAN2
Client Matrix:	Water	Prep Batch:	480-179227	Lab File ID:	H05014TC.PRN
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30 mL
Analysis Date:	05/01/2014 1134	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	05/01/2014 0850				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	0.00668	0.00480	72	80 - 120	

Client: Sterling Environmental Engineering PC

Job Number: 480-58807-1

Lab Control Sample - Batch: 480-179279

Method: 1010A
Preparation: N/A

Lab Sample ID:	LCS 480-179279/1	Analysis Batch:	480-179279	Instrument ID:	No Equipment Assigned
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	25 mL
Analysis Date:	04/30/2014 0908	Units:	Degrees F	Final Weight/Volume:	25 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Flashpoint	81.0	80.00	99	97.5 - 102.5	

Client: Sterling Environmental Engineering PC

Job Number: 480-58807-1

Method Blank - Batch: 480-179770

Method: 9012
Preparation: 7.3.3

Lab Sample ID:	MB 480-179770/1-A	Analysis Batch:	480-180033	Instrument ID:	No Equipment Assigned
Client Matrix:	Solid	Prep Batch:	480-179770	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	05/05/2014 0629	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	05/02/2014 0050				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Cyanide, Reactive	ND		0.0030	10.0

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 480-179770

Method: 9012
Preparation: 7.3.3

LCS Lab Sample ID:	LCS 480-179770/2-A	Analysis Batch:	480-180033	Instrument ID:	No Equipment Assigned
Client Matrix:	Solid	Prep Batch:	480-179770	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	05/05/2014 0630	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	05/02/2014 0050				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 480-179770/3-A	Analysis Batch:	480-180033	Instrument ID:	No Equipment Assigned
Client Matrix:	Solid	Prep Batch:	480-179770	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	05/05/2014 0632	Units:	mg/Kg	Final Weight/Volume:	5 mL
Prep Date:	05/02/2014 0050				
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Cyanide, Reactive	30	30	10 - 100	2	20		

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 480-179770

Method: 9012
Preparation: 7.3.3

LCS Lab Sample ID:	LCS 480-179770/2-A	Units:	mg/Kg	LCSD Lab Sample ID:	LCSD 480-179770/3-A
Client Matrix:	Solid			Client Matrix:	Solid
Dilution:	1.0			Dilution:	1.0
Analysis Date:	05/05/2014 0630			Analysis Date:	05/05/2014 0632
Prep Date:	05/02/2014 0050			Prep Date:	05/02/2014 0050
Leach Date:	N/A			Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Cyanide, Reactive	1000	1000	303.8	298.8

Client: Sterling Environmental Engineering PC

Job Number: 480-58807-1

Method Blank - Batch: 480-179766

Method: 9034
Preparation: 7.3.4

Lab Sample ID:	MB 480-179766/1-A	Analysis Batch:	480-180094	Instrument ID:	No Equipment Assigned
Client Matrix:	Solid	Prep Batch:	480-179766	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	100 mL
Analysis Date:	05/05/2014 0930	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	05/02/2014 0050				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Sulfide, Reactive	ND		0.57	10.0

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 480-179766

Method: 9034
Preparation: 7.3.4

LCS Lab Sample ID:	LCS 480-179766/2-A	Analysis Batch:	480-180094	Instrument ID:	No Equipment Assigned
Client Matrix:	Solid	Prep Batch:	480-179766	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	100 mL
Analysis Date:	05/05/2014 0930	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	05/02/2014 0050				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 480-179766/3-A	Analysis Batch:	480-180094	Instrument ID:	No Equipment Assigned
Client Matrix:	Solid	Prep Batch:	480-179766	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	100 mL
Analysis Date:	05/05/2014 0930	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	05/02/2014 0050				
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Sulfide, Reactive	76	80	10 - 100	5	20		

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 480-179766

Method: 9034
Preparation: 7.3.4

LCS Lab Sample ID:	LCS 480-179766/2-A	Units:	mg/Kg	LCSD Lab Sample ID:	LCSD 480-179766/3-A
Client Matrix:	Solid			Client Matrix:	Solid
Dilution:	1.0			Dilution:	1.0
Analysis Date:	05/05/2014 0930			Analysis Date:	05/05/2014 0930
Prep Date:	05/02/2014 0050			Prep Date:	05/02/2014 0050
Leach Date:	N/A			Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Sulfide, Reactive	1000	1000	761.4	801.5

Client: Sterling Environmental Engineering PC

Job Number: 480-58807-1

Lab Control Sample - Batch: 480-179029

Method: 9045D
Preparation: N/A

Lab Sample ID:	LCS 480-179029/1	Analysis Batch:	480-179029	Instrument ID:	No Equipment Assigned
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	25 mL
Analysis Date:	04/29/2014 2150	Units:	SU	Final Weight/Volume:	25 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
pH	7.00	7.020	100	99 - 101	

DATA REPORTING QUALIFIERS

Client: Sterling Environmental Engineering PC Job Number: 480-58807-1

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
GC Semi VOA		
	B	Compound was found in the blank and sample.
	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
Metals		
	B	Compound was found in the blank and sample.
	*	LCS or LCSD 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: Sterling Environmental Engineering PC

Job Number: 480-58807-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Prep Batch: 480-178952					
LB 480-178952/1-A	TCLP SPLPE Leachate Blank	P	Solid	1311	
480-58807-1	P1-1(Sed)	P	Solid	1311	
480-58807-2	P1-2(Sed)	P	Solid	1311	
480-58807-3	P2-1(Sed)	P	Solid	1311	
480-58807-4	P2-2(Sed)	P	Solid	1311	
Analysis Batch:480-179119					
LB 480-178952/1-A	TCLP SPLPE Leachate Blank	P	Solid	8260C	
LCS 480-179119/5	Lab Control Sample	T	Water	8260C	
MB 480-179119/7	Method Blank	T	Water	8260C	
480-58807-1	P1-1(Sed)	P	Solid	8260C	
480-58807-2	P1-2(Sed)	P	Solid	8260C	
480-58807-3	P2-1(Sed)	P	Solid	8260C	
480-58807-4	P2-2(Sed)	P	Solid	8260C	

Report Basis

P = TCLP

T = Total

Client: Sterling Environmental Engineering PC

Job Number: 480-58807-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS Semi VOA					
Prep Batch: 480-180381					
LB 480-180381/1-D	TCLP SPLPE Leachate Blank	P	Solid	1311	
480-58807-1	P1-1(Sed)	P	Solid	1311	
480-58807-2	P1-2(Sed)	P	Solid	1311	
480-58807-3	P2-1(Sed)	P	Solid	1311	
480-58807-4	P2-2(Sed)	P	Solid	1311	
Prep Batch: 480-180799					
LCS 480-180799/2-A	Lab Control Sample	T	Water	3510C	
LCSD 480-180799/3-A	Lab Control Sample Duplicate	T	Water	3510C	
MB 480-180799/1-A	Method Blank	T	Water	3510C	
LB 480-180381/1-D	TCLP SPLPE Leachate Blank	P	Solid	3510C	480-180381
480-58807-1	P1-1(Sed)	P	Solid	3510C	480-180381
480-58807-2	P1-2(Sed)	P	Solid	3510C	480-180381
480-58807-3	P2-1(Sed)	P	Solid	3510C	480-180381
480-58807-4	P2-2(Sed)	P	Solid	3510C	480-180381
Analysis Batch:480-180978					
LB 480-180381/1-D	TCLP SPLPE Leachate Blank	P	Solid	8270D	480-180799
LCS 480-180799/2-A	Lab Control Sample	T	Water	8270D	480-180799
LCSD 480-180799/3-A	Lab Control Sample Duplicate	T	Water	8270D	480-180799
MB 480-180799/1-A	Method Blank	T	Water	8270D	480-180799
480-58807-1	P1-1(Sed)	P	Solid	8270D	480-180799
480-58807-2	P1-2(Sed)	P	Solid	8270D	480-180799
480-58807-3	P2-1(Sed)	P	Solid	8270D	480-180799
480-58807-4	P2-2(Sed)	P	Solid	8270D	480-180799

Report Basis

P = TCLP

T = Total

Client: Sterling Environmental Engineering PC

Job Number: 480-58807-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC Semi VOA					
Prep Batch: 480-178927					
LCS 480-178927/2-A	Lab Control Sample	T	Solid	3550C	
MB 480-178927/1-A	Method Blank	T	Solid	3550C	
480-58807-1	P1-1(Sed)	T	Solid	3550C	
480-58807-2	P1-2(Sed)	T	Solid	3550C	
480-58807-3	P2-1(Sed)	T	Solid	3550C	
480-58807-4	P2-2(Sed)	T	Solid	3550C	
Analysis Batch:480-179084					
LCS 480-178927/2-A	Lab Control Sample	T	Solid	8082A	480-178927
MB 480-178927/1-A	Method Blank	T	Solid	8082A	480-178927
480-58807-1	P1-1(Sed)	T	Solid	8082A	480-178927
480-58807-2	P1-2(Sed)	T	Solid	8082A	480-178927
480-58807-3	P2-1(Sed)	T	Solid	8082A	480-178927
480-58807-4	P2-2(Sed)	T	Solid	8082A	480-178927
Prep Batch: 480-180381					
LB 480-180381/1-E	TCLP SPLPE Leachate Blank	P	Solid	1311	
LB 480-180381/1-F	TCLP SPLPE Leachate Blank	P	Solid	1311	
480-58807-1	P1-1(Sed)	P	Solid	1311	
480-58807-2	P1-2(Sed)	P	Solid	1311	
480-58807-3	P2-1(Sed)	P	Solid	1311	
480-58807-4	P2-2(Sed)	P	Solid	1311	
Prep Batch: 480-180800					
LCS 480-180800/2-A	Lab Control Sample	T	Water	8151A	
LCSD 480-180800/3-A	Lab Control Sample Duplicate	T	Water	8151A	
MB 480-180800/1-A	Method Blank	T	Water	8151A	
LB 480-180381/1-E	TCLP SPLPE Leachate Blank	P	Solid	8151A	480-180381
480-58807-1	P1-1(Sed)	P	Solid	8151A	480-180381
480-58807-2	P1-2(Sed)	P	Solid	8151A	480-180381
480-58807-3	P2-1(Sed)	P	Solid	8151A	480-180381
480-58807-4	P2-2(Sed)	P	Solid	8151A	480-180381
Prep Batch: 480-180803					
LCS 480-180803/2-A	Lab Control Sample	T	Water	3510C	
LCSD 480-180803/3-A	Lab Control Sample Duplicate	T	Water	3510C	
MB 480-180803/1-A	Method Blank	T	Water	3510C	
LB 480-180381/1-F	TCLP SPLPE Leachate Blank	P	Solid	3510C	480-180381
480-58807-1	P1-1(Sed)	P	Solid	3510C	480-180381
480-58807-2	P1-2(Sed)	P	Solid	3510C	480-180381
480-58807-3	P2-1(Sed)	P	Solid	3510C	480-180381
480-58807-4	P2-2(Sed)	P	Solid	3510C	480-180381

Client: Sterling Environmental Engineering PC

Job Number: 480-58807-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC Semi VOA					
Analysis Batch:480-181145					
LB 480-180381/1-F	TCLP SPLPE Leachate Blank	P	Solid	8081B	480-180803
LCS 480-180803/2-A	Lab Control Sample	T	Water	8081B	480-180803
LCSD 480-180803/3-A	Lab Control Sample Duplicate	T	Water	8081B	480-180803
MB 480-180803/1-A	Method Blank	T	Water	8081B	480-180803
480-58807-1	P1-1(Sed)	P	Solid	8081B	480-180803
480-58807-2	P1-2(Sed)	P	Solid	8081B	480-180803
480-58807-3	P2-1(Sed)	P	Solid	8081B	480-180803
480-58807-4	P2-2(Sed)	P	Solid	8081B	480-180803
Analysis Batch:480-181242					
LB 480-180381/1-E	TCLP SPLPE Leachate Blank	P	Solid	8151	480-180800
LCS 480-180800/2-A	Lab Control Sample	T	Water	8151	480-180800
LCSD 480-180800/3-A	Lab Control Sample Duplicate	T	Water	8151	480-180800
MB 480-180800/1-A	Method Blank	T	Water	8151	480-180800
480-58807-1	P1-1(Sed)	P	Solid	8151	480-180800
480-58807-2	P1-2(Sed)	P	Solid	8151	480-180800
480-58807-3	P2-1(Sed)	P	Solid	8151	480-180800
480-58807-4	P2-2(Sed)	P	Solid	8151	480-180800

Report Basis

P = TCLP

T = Total

Client: Sterling Environmental Engineering PC Job Number: 480-58807-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 480-178938					
LB 480-178938/1-B	TCLP SPLPE Leachate Blank	P	Solid	1311	
LB 480-178938/1-C	TCLP SPLPE Leachate Blank	P	Solid	1311	
480-58807-1	P1-1(Sed)	P	Solid	1311	
480-58807-2	P1-2(Sed)	P	Solid	1311	
480-58807-3	P2-1(Sed)	P	Solid	1311	
480-58807-4	P2-2(Sed)	P	Solid	1311	
Prep Batch: 480-179139					
LCS 480-179139/3-A	Lab Control Sample	T	Water	3010A	
MB 480-179139/2-A	Method Blank	T	Water	3010A	
LB 480-178938/1-B	TCLP SPLPE Leachate Blank	P	Solid	3010A	480-178938
480-58807-1	P1-1(Sed)	P	Solid	3010A	480-178938
480-58807-2	P1-2(Sed)	P	Solid	3010A	480-178938
480-58807-3	P2-1(Sed)	P	Solid	3010A	480-178938
480-58807-4	P2-2(Sed)	P	Solid	3010A	480-178938
Prep Batch: 480-179227					
LCS 480-179227/3-A	Lab Control Sample	T	Water	7470A	
MB 480-179227/2-A	Method Blank	T	Water	7470A	
LB 480-178938/1-C	TCLP SPLPE Leachate Blank	P	Solid	7470A	480-178938
480-58807-1	P1-1(Sed)	P	Solid	7470A	480-178938
480-58807-2	P1-2(Sed)	P	Solid	7470A	480-178938
480-58807-3	P2-1(Sed)	P	Solid	7470A	480-178938
480-58807-4	P2-2(Sed)	P	Solid	7470A	480-178938
Analysis Batch:480-179601					
LB 480-178938/1-B	TCLP SPLPE Leachate Blank	P	Solid	6010C	480-179139
LCS 480-179139/3-A	Lab Control Sample	T	Water	6010C	480-179139
MB 480-179139/2-A	Method Blank	T	Water	6010C	480-179139
480-58807-1	P1-1(Sed)	P	Solid	6010C	480-179139
480-58807-2	P1-2(Sed)	P	Solid	6010C	480-179139
480-58807-3	P2-1(Sed)	P	Solid	6010C	480-179139
480-58807-4	P2-2(Sed)	P	Solid	6010C	480-179139
Analysis Batch:480-180600					
LB 480-178938/1-C	TCLP SPLPE Leachate Blank	P	Solid	7470A	480-179227
LCS 480-179227/3-A	Lab Control Sample	T	Water	7470A	480-179227
MB 480-179227/2-A	Method Blank	T	Water	7470A	480-179227
480-58807-1	P1-1(Sed)	P	Solid	7470A	480-179227
480-58807-2	P1-2(Sed)	P	Solid	7470A	480-179227
480-58807-3	P2-1(Sed)	P	Solid	7470A	480-179227
480-58807-4	P2-2(Sed)	P	Solid	7470A	480-179227

Client: Sterling Environmental Engineering PC

Job Number: 480-58807-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch

Report Basis

P = TCLP

T = Total

Client: Sterling Environmental Engineering PC

Job Number: 480-58807-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:480-178745					
480-58807-1	P1-1(Sed)	T	Solid	Moisture	
480-58807-2	P1-2(Sed)	T	Solid	Moisture	
480-58807-3	P2-1(Sed)	T	Solid	Moisture	
480-58807-4	P2-2(Sed)	T	Solid	Moisture	
Analysis Batch:480-179029					
LCS 480-179029/1	Lab Control Sample	T	Solid	9045D	
480-58807-1	P1-1(Sed)	T	Solid	9045D	
480-58807-2	P1-2(Sed)	T	Solid	9045D	
480-58807-3	P2-1(Sed)	T	Solid	9045D	
480-58807-4	P2-2(Sed)	T	Solid	9045D	
Analysis Batch:480-179279					
LCS 480-179279/1	Lab Control Sample	T	Solid	1010A	
480-58807-1	P1-1(Sed)	T	Solid	1010A	
480-58807-2	P1-2(Sed)	T	Solid	1010A	
480-58807-3	P2-1(Sed)	T	Solid	1010A	
480-58807-4	P2-2(Sed)	T	Solid	1010A	
Prep Batch: 480-179766					
LCS 480-179766/2-A	Lab Control Sample	T	Solid	7.3.4	
LCSD 480-179766/3-A	Lab Control Sample Duplicate	T	Solid	7.3.4	
MB 480-179766/1-A	Method Blank	T	Solid	7.3.4	
480-58807-1	P1-1(Sed)	T	Solid	7.3.4	
480-58807-2	P1-2(Sed)	T	Solid	7.3.4	
480-58807-3	P2-1(Sed)	T	Solid	7.3.4	
480-58807-4	P2-2(Sed)	T	Solid	7.3.4	
Prep Batch: 480-179770					
LCS 480-179770/2-A	Lab Control Sample	T	Solid	7.3.3	
LCSD 480-179770/3-A	Lab Control Sample Duplicate	T	Solid	7.3.3	
MB 480-179770/1-A	Method Blank	T	Solid	7.3.3	
480-58807-1	P1-1(Sed)	T	Solid	7.3.3	
480-58807-2	P1-2(Sed)	T	Solid	7.3.3	
480-58807-3	P2-1(Sed)	T	Solid	7.3.3	
480-58807-4	P2-2(Sed)	T	Solid	7.3.3	
Analysis Batch:480-180033					
LCS 480-179770/2-A	Lab Control Sample	T	Solid	9012	480-179770
LCSD 480-179770/3-A	Lab Control Sample Duplicate	T	Solid	9012	480-179770
MB 480-179770/1-A	Method Blank	T	Solid	9012	480-179770
480-58807-1	P1-1(Sed)	T	Solid	9012	480-179770
480-58807-2	P1-2(Sed)	T	Solid	9012	480-179770
480-58807-3	P2-1(Sed)	T	Solid	9012	480-179770
480-58807-4	P2-2(Sed)	T	Solid	9012	480-179770

Client: Sterling Environmental Engineering PC

Job Number: 480-58807-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:480-180094					
LCS 480-179766/2-A	Lab Control Sample	T	Solid	9034	480-179766
LCSD 480-179766/3-A	Lab Control Sample Duplicate	T	Solid	9034	480-179766
MB 480-179766/1-A	Method Blank	T	Solid	9034	480-179766
480-58807-1	P1-1(Sed)	T	Solid	9034	480-179766
480-58807-2	P1-2(Sed)	T	Solid	9034	480-179766
480-58807-3	P2-1(Sed)	T	Solid	9034	480-179766
480-58807-4	P2-2(Sed)	T	Solid	9034	480-179766

Report Basis
T = Total

Client: Sterling Environmental Engineering PC Job Number: 480-58807-1

Laboratory Chronicle

Lab ID: 480-58807-1 **Client ID:** P1-1(Sed)

Sample Date/Time: 04/25/2014 00:00 Received Date/Time: 04/28/2014 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	480-58807-B-1-C		480-179119		04/30/2014 17:36	10	TAL BUF	GTG
A:8260C	480-58807-B-1-C		480-179119		04/30/2014 17:36	10	TAL BUF	GTG
P:3510C	480-58807-B-1-G		480-180978	480-180799	05/08/2014 06:29	1	TAL BUF	MCZ
A:8270D	480-58807-B-1-G		480-180978	480-180799	05/08/2014 21:22	1	TAL BUF	HTL
P:3510C	480-58807-B-1-I		480-181145	480-180803	05/08/2014 07:12	1	TAL BUF	MCZ
A:8081B	480-58807-B-1-I		480-181145	480-180803	05/09/2014 11:50	1	TAL BUF	LMW
P:3550C	480-58807-B-1-A		480-179084	480-178927	04/29/2014 12:37	1	TAL BUF	JRL
A:8082A	480-58807-B-1-A		480-179084	480-178927	04/30/2014 14:22	1	TAL BUF	JMM
P:8151A	480-58807-B-1-H		480-181242	480-180800	05/08/2014 06:41	1	TAL BUF	MCZ
A:8151	480-58807-B-1-H		480-181242	480-180800	05/12/2014 13:36	1	TAL BUF	DGB
P:3010A	480-58807-B-1-D		480-179601	480-179139	04/30/2014 10:35	1	TAL BUF	EHD
A:6010C	480-58807-B-1-D		480-179601	480-179139	05/01/2014 15:44	1	TAL BUF	LMH
P:7470A	480-58807-B-1-E		480-180600	480-179227	05/01/2014 08:50	1	TAL BUF	EHD
A:7470A	480-58807-B-1-E		480-180600	480-179227	05/01/2014 11:55	1	TAL BUF	LRK
A:1010A	480-58807-A-1		480-179279		04/30/2014 09:08	1	TAL BUF	RP
P:7.3.3	480-58807-C-1-B		480-180033	480-179770	05/02/2014 00:50	1	TAL BUF	LAW
A:9012	480-58807-C-1-B		480-180033	480-179770	05/05/2014 06:38	1	TAL BUF	LAW
P:7.3.4	480-58807-C-1-A		480-180094	480-179766	05/02/2014 00:50	1	TAL BUF	LAW
A:9034	480-58807-C-1-A		480-180094	480-179766	05/05/2014 09:30	1	TAL BUF	LAW
A:9045D	480-58807-A-1		480-179029		04/29/2014 21:50	1	TAL BUF	JMB
A:Moisture	480-58807-A-1		480-178745		04/28/2014 16:28	1	TAL BUF	ZJR

Client: Sterling Environmental Engineering PC Job Number: 480-58807-1

Laboratory Chronicle

Lab ID: 480-58807-2 **Client ID:** P1-2(Sed)

Sample Date/Time: 04/25/2014 00:00 Received Date/Time: 04/28/2014 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	480-58807-C-2-C		480-179119		04/30/2014 17:59	10	TAL BUF	GTG
A:8260C	480-58807-C-2-C		480-179119		04/30/2014 17:59	10	TAL BUF	GTG
P:3510C	480-58807-C-2-G		480-180978	480-180799	05/08/2014 06:29	1	TAL BUF	MCZ
A:8270D	480-58807-C-2-G		480-180978	480-180799	05/08/2014 21:46	1	TAL BUF	HTL
P:3510C	480-58807-C-2-I		480-181145	480-180803	05/08/2014 07:12	1	TAL BUF	MCZ
A:8081B	480-58807-C-2-I		480-181145	480-180803	05/09/2014 12:07	1	TAL BUF	LMW
P:3550C	480-58807-C-2-A		480-179084	480-178927	04/29/2014 12:37	1	TAL BUF	JRL
A:8082A	480-58807-C-2-A		480-179084	480-178927	04/30/2014 14:36	1	TAL BUF	JMM
P:8151A	480-58807-C-2-H		480-181242	480-180800	05/08/2014 06:41	1	TAL BUF	MCZ
A:8151	480-58807-C-2-H		480-181242	480-180800	05/12/2014 14:06	1	TAL BUF	DGB
P:3010A	480-58807-C-2-D		480-179601	480-179139	04/30/2014 10:35	1	TAL BUF	EHD
A:6010C	480-58807-C-2-D		480-179601	480-179139	05/01/2014 15:47	1	TAL BUF	LMH
P:7470A	480-58807-C-2-E		480-180600	480-179227	05/01/2014 08:50	1	TAL BUF	EHD
A:7470A	480-58807-C-2-E		480-180600	480-179227	05/01/2014 11:57	1	TAL BUF	LRK
A:1010A	480-58807-A-2		480-179279		04/30/2014 09:08	1	TAL BUF	RP
P:7.3.3	480-58807-B-2-B		480-180033	480-179770	05/02/2014 00:50	1	TAL BUF	LAW
A:9012	480-58807-B-2-B		480-180033	480-179770	05/05/2014 06:39	1	TAL BUF	LAW
P:7.3.4	480-58807-B-2-A		480-180094	480-179766	05/02/2014 00:50	1	TAL BUF	LAW
A:9034	480-58807-B-2-A		480-180094	480-179766	05/05/2014 09:30	1	TAL BUF	LAW
A:9045D	480-58807-A-2		480-179029		04/29/2014 21:50	1	TAL BUF	JMB
A:Moisture	480-58807-A-2		480-178745		04/28/2014 16:28	1	TAL BUF	ZJR

Client: Sterling Environmental Engineering PC Job Number: 480-58807-1

Laboratory Chronicle

Lab ID: 480-58807-3 **Client ID:** P2-1(Sed)

Sample Date/Time: 04/25/2014 00:00 Received Date/Time: 04/28/2014 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	480-58807-B-3-C		480-179119		04/30/2014 18:22	10	TAL BUF	GTG
A:8260C	480-58807-B-3-C		480-179119		04/30/2014 18:22	10	TAL BUF	GTG
P:3510C	480-58807-B-3-I		480-180978	480-180799	05/08/2014 06:29	1	TAL BUF	MCZ
A:8270D	480-58807-B-3-I		480-180978	480-180799	05/08/2014 22:10	1	TAL BUF	HTL
P:3510C	480-58807-B-3-K		480-181145	480-180803	05/08/2014 07:12	1	TAL BUF	MCZ
A:8081B	480-58807-B-3-K		480-181145	480-180803	05/09/2014 12:25	1	TAL BUF	LMW
P:3550C	480-58807-B-3-A		480-179084	480-178927	04/29/2014 12:37	1	TAL BUF	JRL
A:8082A	480-58807-B-3-A		480-179084	480-178927	04/30/2014 14:51	1	TAL BUF	JMM
P:8151A	480-58807-B-3-J		480-181242	480-180800	05/08/2014 06:41	1	TAL BUF	MCZ
A:8151	480-58807-B-3-J		480-181242	480-180800	05/12/2014 14:35	1	TAL BUF	DGB
P:3010A	480-58807-B-3-D		480-179601	480-179139	04/30/2014 10:35	1	TAL BUF	EHD
A:6010C	480-58807-B-3-D		480-179601	480-179139	05/01/2014 15:50	1	TAL BUF	LMH
P:7470A	480-58807-B-3-E		480-180600	480-179227	05/01/2014 08:50	1	TAL BUF	EHD
A:7470A	480-58807-B-3-E		480-180600	480-179227	05/01/2014 12:02	1	TAL BUF	LRK
A:1010A	480-58807-A-3		480-179279		04/30/2014 09:08	1	TAL BUF	RP
P:7.3.3	480-58807-B-3-G		480-180033	480-179770	05/02/2014 00:50	1	TAL BUF	LAW
A:9012	480-58807-B-3-G		480-180033	480-179770	05/05/2014 06:40	1	TAL BUF	LAW
P:7.3.4	480-58807-B-3-F		480-180094	480-179766	05/02/2014 00:50	1	TAL BUF	LAW
A:9034	480-58807-B-3-F		480-180094	480-179766	05/05/2014 09:30	1	TAL BUF	LAW
A:9045D	480-58807-A-3		480-179029		04/29/2014 21:50	1	TAL BUF	JMB
A:Moisture	480-58807-A-3		480-178745		04/28/2014 16:28	1	TAL BUF	ZJR

Client: Sterling Environmental Engineering PC Job Number: 480-58807-1

Laboratory Chronicle

Lab ID: 480-58807-4 **Client ID:** P2-2(Sed)

Sample Date/Time: 04/25/2014 00:00 Received Date/Time: 04/28/2014 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	480-58807-C-4-C		480-179119		04/30/2014 18:45	10	TAL BUF	GTG
A:8260C	480-58807-C-4-C		480-179119		04/30/2014 18:45	10	TAL BUF	GTG
P:3510C	480-58807-C-4-I		480-180978	480-180799	05/08/2014 06:29	1	TAL BUF	MCZ
A:8270D	480-58807-C-4-I		480-180978	480-180799	05/08/2014 22:35	1	TAL BUF	HTL
P:3510C	480-58807-C-4-K		480-181145	480-180803	05/08/2014 07:12	1	TAL BUF	MCZ
A:8081B	480-58807-C-4-K		480-181145	480-180803	05/09/2014 12:42	1	TAL BUF	LMW
P:3550C	480-58807-C-4-A		480-179084	480-178927	04/29/2014 12:37	1	TAL BUF	JRL
A:8082A	480-58807-C-4-A		480-179084	480-178927	04/30/2014 15:05	1	TAL BUF	JMM
P:8151A	480-58807-C-4-J		480-181242	480-180800	05/08/2014 06:41	1	TAL BUF	MCZ
A:8151	480-58807-C-4-J		480-181242	480-180800	05/12/2014 15:05	1	TAL BUF	DGB
P:3010A	480-58807-C-4-D		480-179601	480-179139	04/30/2014 10:35	1	TAL BUF	EHD
A:6010C	480-58807-C-4-D		480-179601	480-179139	05/01/2014 15:53	1	TAL BUF	LMH
P:7470A	480-58807-C-4-E		480-180600	480-179227	05/01/2014 08:50	1	TAL BUF	EHD
A:7470A	480-58807-C-4-E		480-180600	480-179227	05/01/2014 12:03	1	TAL BUF	LRK
A:1010A	480-58807-A-4		480-179279		04/30/2014 09:08	1	TAL BUF	RP
P:7.3.3	480-58807-C-4-G		480-180033	480-179770	05/02/2014 00:50	1	TAL BUF	LAW
A:9012	480-58807-C-4-G		480-180033	480-179770	05/05/2014 06:42	1	TAL BUF	LAW
P:7.3.4	480-58807-C-4-F		480-180094	480-179766	05/02/2014 00:50	1	TAL BUF	LAW
A:9034	480-58807-C-4-F		480-180094	480-179766	05/05/2014 09:30	1	TAL BUF	LAW
A:9045D	480-58807-A-4		480-179029		04/29/2014 21:50	1	TAL BUF	JMB
A:Moisture	480-58807-A-4		480-178745		04/28/2014 16:28	1	TAL BUF	ZJR

Client: Sterling Environmental Engineering PC

Job Number: 480-58807-1

Laboratory Chronicle

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
P:5030C	MB 480-179119/7		480-179119		04/30/2014 13:25	1	TAL BUF	GTG
A:8260C	MB 480-179119/7		480-179119		04/30/2014 13:25	1	TAL BUF	GTG
P:3510C	MB 480-180799/1-A		480-180978	480-180799	05/08/2014 06:29	1	TAL BUF	MCZ
A:8270D	MB 480-180799/1-A		480-180978	480-180799	05/08/2014 16:05	1	TAL BUF	HTL
P:3510C	MB 480-180803/1-A		480-181145	480-180803	05/08/2014 07:12	1	TAL BUF	MCZ
A:8081B	MB 480-180803/1-A		480-181145	480-180803	05/09/2014 10:22	1	TAL BUF	LMW
P:3550C	MB 480-178927/1-A		480-179084	480-178927	04/29/2014 12:37	1	TAL BUF	JRL
A:8082A	MB 480-178927/1-A		480-179084	480-178927	04/30/2014 10:45	1	TAL BUF	JMM
P:8151A	MB 480-180800/1-A		480-181242	480-180800	05/08/2014 06:41	1	TAL BUF	MCZ
A:8151	MB 480-180800/1-A		480-181242	480-180800	05/12/2014 11:37	1	TAL BUF	DGB
P:3010A	MB 480-179139/2-A		480-179601	480-179139	04/30/2014 10:35	1	TAL BUF	EHD
A:6010C	MB 480-179139/2-A		480-179601	480-179139	05/01/2014 14:52	1	TAL BUF	LMH
P:7470A	MB 480-179227/2-A		480-180600	480-179227	05/01/2014 08:50	1	TAL BUF	EHD
A:7470A	MB 480-179227/2-A		480-180600	480-179227	05/01/2014 11:32	1	TAL BUF	LRK
P:7.3.3	MB 480-179770/1-A		480-180033	480-179770	05/02/2014 00:50	1	TAL BUF	LAW
A:9012	MB 480-179770/1-A		480-180033	480-179770	05/05/2014 06:29	1	TAL BUF	LAW
P:7.3.4	MB 480-179766/1-A		480-180094	480-179766	05/02/2014 00:50	1	TAL BUF	LAW
A:9034	MB 480-179766/1-A		480-180094	480-179766	05/05/2014 09:30	1	TAL BUF	LAW

Lab ID: LB **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:5030C	LB 480-178952/1-A		480-179119		04/30/2014 16:50	10	TAL BUF	GTG
A:8260C	LB 480-178952/1-A		480-179119		04/30/2014 16:50	10	TAL BUF	GTG
P:3510C	LB 480-180381/1-D		480-180978	480-180799	05/08/2014 06:29	1	TAL BUF	MCZ
A:8270D	LB 480-180381/1-D		480-180978	480-180799	05/08/2014 17:43	1	TAL BUF	HTL
P:3510C	LB 480-180381/1-F		480-181145	480-180803	05/08/2014 07:12	1	TAL BUF	MCZ
A:8081B	LB 480-180381/1-F		480-181145	480-180803	05/09/2014 11:15	1	TAL BUF	LMW
P:8151A	LB 480-180381/1-E		480-181242	480-180800	05/08/2014 06:41	1	TAL BUF	MCZ
A:8151	LB 480-180381/1-E		480-181242	480-180800	05/12/2014 13:06	1	TAL BUF	DGB
P:3010A	LB 480-178938/1-B		480-179601	480-179139	04/30/2014 10:35	1	TAL BUF	EHD
A:6010C	LB 480-178938/1-B		480-179601	480-179139	05/01/2014 14:49	1	TAL BUF	LMH
P:7470A	LB 480-178938/1-C		480-180600	480-179227	05/01/2014 08:50	1	TAL BUF	EHD
A:7470A	LB 480-178938/1-C		480-180600	480-179227	05/01/2014 11:31	1	TAL BUF	LRK

Client: Sterling Environmental Engineering PC Job Number: 480-58807-1

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
P:5030C	LCS 480-179119/5		480-179119		04/30/2014 12:39	1	TAL BUF	GTG
A:8260C	LCS 480-179119/5		480-179119		04/30/2014 12:39	1	TAL BUF	GTG
P:3510C	LCS 480-180799/2-A		480-180978	480-180799	05/08/2014 06:29	1	TAL BUF	MCZ
A:8270D	LCS 480-180799/2-A		480-180978	480-180799	05/08/2014 16:30	1	TAL BUF	HTL
P:3510C	LCS 480-180803/2-A		480-181145	480-180803	05/08/2014 07:12	1	TAL BUF	MCZ
A:8081B	LCS 480-180803/2-A		480-181145	480-180803	05/09/2014 10:40	1	TAL BUF	LMW
P:3550C	LCS 480-178927/2-A		480-179084	480-178927	04/29/2014 12:37	1	TAL BUF	JRL
A:8082A	LCS 480-178927/2-A		480-179084	480-178927	04/30/2014 11:00	1	TAL BUF	JMM
P:8151A	LCS 480-180800/2-A		480-181242	480-180800	05/08/2014 06:41	1	TAL BUF	MCZ
A:8151	LCS 480-180800/2-A		480-181242	480-180800	05/12/2014 12:07	1	TAL BUF	DGB
P:3010A	LCS 480-179139/3-A		480-179601	480-179139	04/30/2014 10:35	1	TAL BUF	EHD
A:6010C	LCS 480-179139/3-A		480-179601	480-179139	05/01/2014 14:55	1	TAL BUF	LMH
P:7470A	LCS 480-179227/3-A		480-180600	480-179227	05/01/2014 08:50	1	TAL BUF	EHD
A:7470A	LCS 480-179227/3-A		480-180600	480-179227	05/01/2014 11:34	1	TAL BUF	LRK
A:1010A	LCS 480-179279/1		480-179279		04/30/2014 09:08	1	TAL BUF	RP
P:7.3.3	LCS 480-179770/2-A		480-180033	480-179770	05/02/2014 00:50	1	TAL BUF	LAW
A:9012	LCS 480-179770/2-A		480-180033	480-179770	05/05/2014 06:30	1	TAL BUF	LAW
P:7.3.4	LCS 480-179766/2-A		480-180094	480-179766	05/02/2014 00:50	1	TAL BUF	LAW
A:9034	LCS 480-179766/2-A		480-180094	480-179766	05/05/2014 09:30	1	TAL BUF	LAW
A:9045D	LCS 480-179029/1		480-179029		04/29/2014 21:50	1	TAL BUF	JMB

Lab ID: LCSD **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:3510C	LCSD 480-180799/3-A		480-180978	480-180799	05/08/2014 06:29	1	TAL BUF	MCZ
A:8270D	LCSD 480-180799/3-A		480-180978	480-180799	05/08/2014 16:55	1	TAL BUF	HTL
P:3510C	LCSD 480-180803/3-A		480-181145	480-180803	05/08/2014 07:12	1	TAL BUF	MCZ
A:8081B	LCSD 480-180803/3-A		480-181145	480-180803	05/09/2014 10:57	1	TAL BUF	LMW
P:8151A	LCSD 480-180800/3-A		480-181242	480-180800	05/08/2014 06:41	1	TAL BUF	MCZ
A:8151	LCSD 480-180800/3-A		480-181242	480-180800	05/12/2014 12:37	1	TAL BUF	DGB
P:7.3.3	LCSD 480-179770/3-A		480-180033	480-179770	05/02/2014 00:50	1	TAL BUF	LAW
A:9012	LCSD 480-179770/3-A		480-180033	480-179770	05/05/2014 06:32	1	TAL BUF	LAW
P:7.3.4	LCSD 480-179766/3-A		480-180094	480-179766	05/02/2014 00:50	1	TAL BUF	LAW
A:9034	LCSD 480-179766/3-A		480-180094	480-179766	05/05/2014 09:30	1	TAL BUF	LAW

Client: Sterling Environmental Engineering PC

Job Number: 480-58807-1

Laboratory Chronicle

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.: 480-58807-1

SDG No.:

Matrix: Solid (TCLP) Level: Low

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

Client Sample ID	Lab Sample ID	DCA #	TOL #	BFB #
P1-1(Sed)	480-58807-1	98	100	104
P1-2(Sed)	480-58807-2	96	100	101
P2-1(Sed)	480-58807-3	98	98	101
P2-2(Sed)	480-58807-4	99	99	99
	MB 480-179119/7	100	100	101
	LB 480-178952/1-A	98	98	104
	LCS 480-179119/5	95	101	101

	QC LIMITS
DCA = 1,2-Dichloroethane-d4 (Surr)	66-137
TOL = Toluene-d8 (Surr)	71-126
BFB = 4-Bromofluorobenzene (Surr)	73-120

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.: 480-58807-1

SDG No.:

Matrix: Water Level: Low Lab File ID: G29938.D

Lab ID: LCS 480-179119/5 Client ID:

COMPOUND	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC	QC LIMITS REC	#
1,1-Dichloroethene	0.0250	0.0230	92	58-121	
1,2-Dichloroethane	0.0250	0.0226	90	75-127	
Benzene	0.0250	0.0229	91	71-124	
Chlorobenzene	0.0250	0.0236	94	72-120	
Tetrachloroethene	0.0250	0.0241	96	74-122	
Trichloroethene	0.0250	0.0225	90	74-123	

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.: 480-58807-1

SDG No.:

Lab File ID: G29940.D Lab Sample ID: MB 480-179119/7

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

Instrument ID: HP5973G Date Analyzed: 04/30/2014 13:25

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 480-179119/5	G29938.D	04/30/2014 12:39
	LB 480-178952/1-A	G29949.D	04/30/2014 16:50
P1-1(Sed)	480-58807-1	G29951.D	04/30/2014 17:36
P1-2(Sed)	480-58807-2	G29952.D	04/30/2014 17:59
P2-1(Sed)	480-58807-3	G29953.D	04/30/2014 18:22
P2-2(Sed)	480-58807-4	G29954.D	04/30/2014 18:45

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

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1

SDG No.:

Lab File ID: G29138.D BFB Injection Date: 04/10/2014

Instrument ID: HP5973G BFB Injection Time: 16:49

Analysis Batch No.: 175032

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	23.6	
75	30.0 - 60.0 % of mass 95	47.5	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.6	
173	Less than 2.0 % of mass 174	0.6	(1.0)1
174	50.0 - 120.00 % of mass 95	62.3	
175	5.0 - 9.0 % of mass 174	4.9	(7.9)1
176	95.0 - 101.0 % of mass 174	59.7	(95.8)1
177	5.0 - 9.0 % of mass 176	3.5	(5.9)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 480-175032/4	G29140.D	04/10/2014	17:45
	IC 480-175032/5	G29141.D	04/10/2014	18:08
	IC 480-175032/6	G29142.D	04/10/2014	18:31
	IC 480-175032/7	G29143.D	04/10/2014	18:54
	ICIS 480-175032/8	G29144.D	04/10/2014	19:18
	IC 480-175032/9	G29145.D	04/10/2014	19:40
	IC 480-175032/10	G29146.D	04/10/2014	20:03

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

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1

SDG No.:

Lab File ID: G29935.D BFB Injection Date: 04/30/2014

Instrument ID: HP5973G BFB Injection Time: 09:52

Analysis Batch No.: 179119

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	24.6	
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	6.5	
173	Less than 2.0 % of mass 174	0.9	(1.5)1
174	50.0 - 120.00 % of mass 95	59.1	
175	5.0 - 9.0 % of mass 174	4.9	(8.2)1
176	95.0 - 101.0 % of mass 174	58.6	(99.1)1
177	5.0 - 9.0 % of mass 176	3.8	(6.5)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 480-179119/3	G29936.D	04/30/2014	11:41
	LCS 480-179119/5	G29938.D	04/30/2014	12:39
	MB 480-179119/7	G29940.D	04/30/2014	13:25
	LB 480-178952/1-A	G29949.D	04/30/2014	16:50
P1-1(Sed)	480-58807-1	G29951.D	04/30/2014	17:36
P1-2(Sed)	480-58807-2	G29952.D	04/30/2014	17:59
P2-1(Sed)	480-58807-3	G29953.D	04/30/2014	18:22
P2-2(Sed)	480-58807-4	G29954.D	04/30/2014	18:45

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

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1

SDG No.:

Sample No.: ICIS 480-175032/8 Date Analyzed: 04/10/2014 19:18

Instrument ID: HP5973G GC Column: ZB-624 (60) ID: 0.25(mm)

Lab File ID (Standard): G29144.D Heated Purge: (Y/N) N

Calibration ID: 18027

		FB		CBZ		DCB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		699547	5.62	292794	8.62	247644	10.99
UPPER LIMIT		1399094	6.12	585588	9.12	495288	11.49
LOWER LIMIT		349774	5.12	146397	8.12	123822	10.49
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCVIS 480-179119/3		475911	5.62	198024	8.62	171875	10.99

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.: 480-58807-1

SDG No.:

Sample No.: CCVIS 480-179119/3 Date Analyzed: 04/30/2014 11:41

Instrument ID: HP5973G GC Column: ZB-624 (60) ID: 0.25(mm)

Lab File ID (Standard): G29936.D Heated Purge: (Y/N) N

Calibration ID: 18032

		FB		CBZ		DCB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		475911	5.62	198024	8.62	171875	10.99
UPPER LIMIT		951822	6.12	396048	9.12	343750	11.49
LOWER LIMIT		237956	5.12	99012	8.12	85938	10.49
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 480-179119/5		545411	5.62	222455	8.61	191674	10.99
MB 480-179119/7		520831	5.62	214095	8.62	189145	10.99
LB 480-178952/1-A		542365	5.62	223665	8.62	200946	10.99
480-58807-1	P1-1(Sed)	537492	5.62	215999	8.62	194469	10.99
480-58807-2	P1-2(Sed)	533248	5.62	216010	8.62	192522	10.99
480-58807-3	P2-1(Sed)	535852	5.62	221356	8.62	196228	10.99
480-58807-4	P2-2(Sed)	524002	5.62	217693	8.62	193224	10.99

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.: 480-58807-1

SDG No.:

Client Sample ID: P1-1(Sed) | Lab Sample ID: 480-58807-1

Matrix: Solid (TCLP) | Lab File ID: G29951.D

Analysis Method: 8260C | Date Collected: 04/25/2014 00:00

Sample wt/vol: 5(mL) | Date Analyzed: 04/30/2014 17:36

Soil Aliquot Vol: | Dilution Factor: 10

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

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

Analysis Batch No.: 179119 | Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-35-4	1,1-Dichloroethene	ND		0.010	0.0029
107-06-2	1,2-Dichloroethane	0.054		0.010	0.0021
78-93-3	2-Butanone (MEK)	ND		0.050	0.013
71-43-2	Benzene	ND		0.010	0.0041
56-23-5	Carbon tetrachloride	ND		0.010	0.0027
108-90-7	Chlorobenzene	ND		0.010	0.0075
67-66-3	Chloroform	ND		0.010	0.0034
127-18-4	Tetrachloroethene	ND		0.010	0.0036
79-01-6	Trichloroethene	ND		0.010	0.0046
75-01-4	Vinyl chloride	ND		0.010	0.0090

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	98		66-137
460-00-4	4-Bromofluorobenzene (Surr)	104		73-120
2037-26-5	Toluene-d8 (Surr)	100		71-126

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973G\20140430-31607.b\G29951.D
Lims ID: 480-58807-B-1-C Lab Sample ID: 480-58807-1
Client ID: P1-1(Sed)
Sample Type: Client
Inject. Date: 30-Apr-2014 17:36:30 ALS Bottle#: 48 Worklist Smp#: 26
Purge Vol: 5.000 mL Dil. Factor: 10.0000
Sample Info: 480-58807-B-1-C
Misc. Info.: 480-0031607-026 =480-0031607-026
Operator ID: NQ Instrument ID: HP5973G

Method: \\Bufchrom\ChromData\HP5973G\20140430-31607.b\G-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 30-Apr-2014 19:56:57 Calib Date: 10-Apr-2014 23:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5973G\20140410-30960.b\G29156.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK026

First Level Reviewer: goliszekg Date: 30-Apr-2014 19:57:56

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	96	5.620	5.620	0.000	98	537492	25.0	
* 2 Chlorobenzene-d5	82	8.620	8.620	0.000	88	215999	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.991	10.985	0.006	97	194469	25.0	
$ 4 1,2-Dichloroethane-d4 (Sur	67	5.334	5.334	0.000	0	85368	24.4	
$ 5 Toluene-d8 (Surr)	98	7.132	7.132	0.000	94	500408	24.9	
$ 6 4-Bromofluorobenzene (Surr	174	9.857	9.857	0.000	81	128298	26.0	
13 Vinyl chloride	62		1.707					
20 1,1-Dichloroethene	96		2.889					
44 2-Butanone (MEK)	43		4.584					
50 Chloroform	85		4.871					
53 Carbon tetrachloride	117		5.145					
56 Benzene	78		5.352					
57 1,2-Dichloroethane	62	5.407	5.401	0.006	83	52461	5.42	
61 Trichloroethene	95		5.962					
80 Tetrachloroethene	166		7.742					
86 Chlorobenzene	112		8.644					

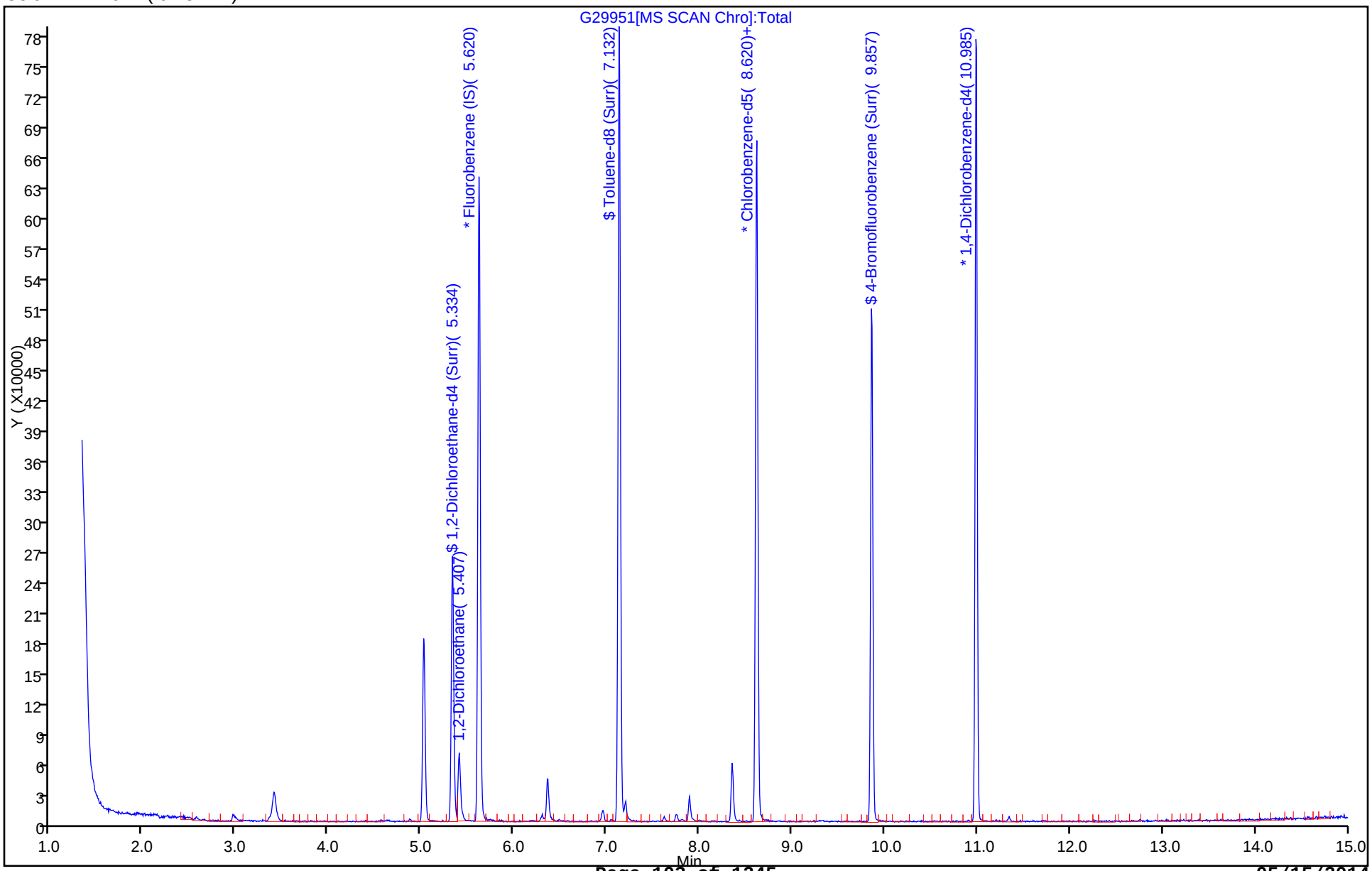
Report Date: 30-Apr-2014 19:57:57 Chrom Revision: 2.2 14-Apr-2014 13:40:08

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973G\20140430-31607.b\G29951.D

Injection Date:	30-Apr-2014 17:36:30	Instrument ID:	HP5973G	Operator ID:	NQ
Lims ID:	480-58807-B-1-C	Lab Sample ID:	480-58807-1	Worklist Smp#:	26
Client ID:	P1-1(Sed)				
Purge Vol:	5.000 mL	Dil. Factor:	10.0000	ALS Bottle#:	48
Method:	G-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



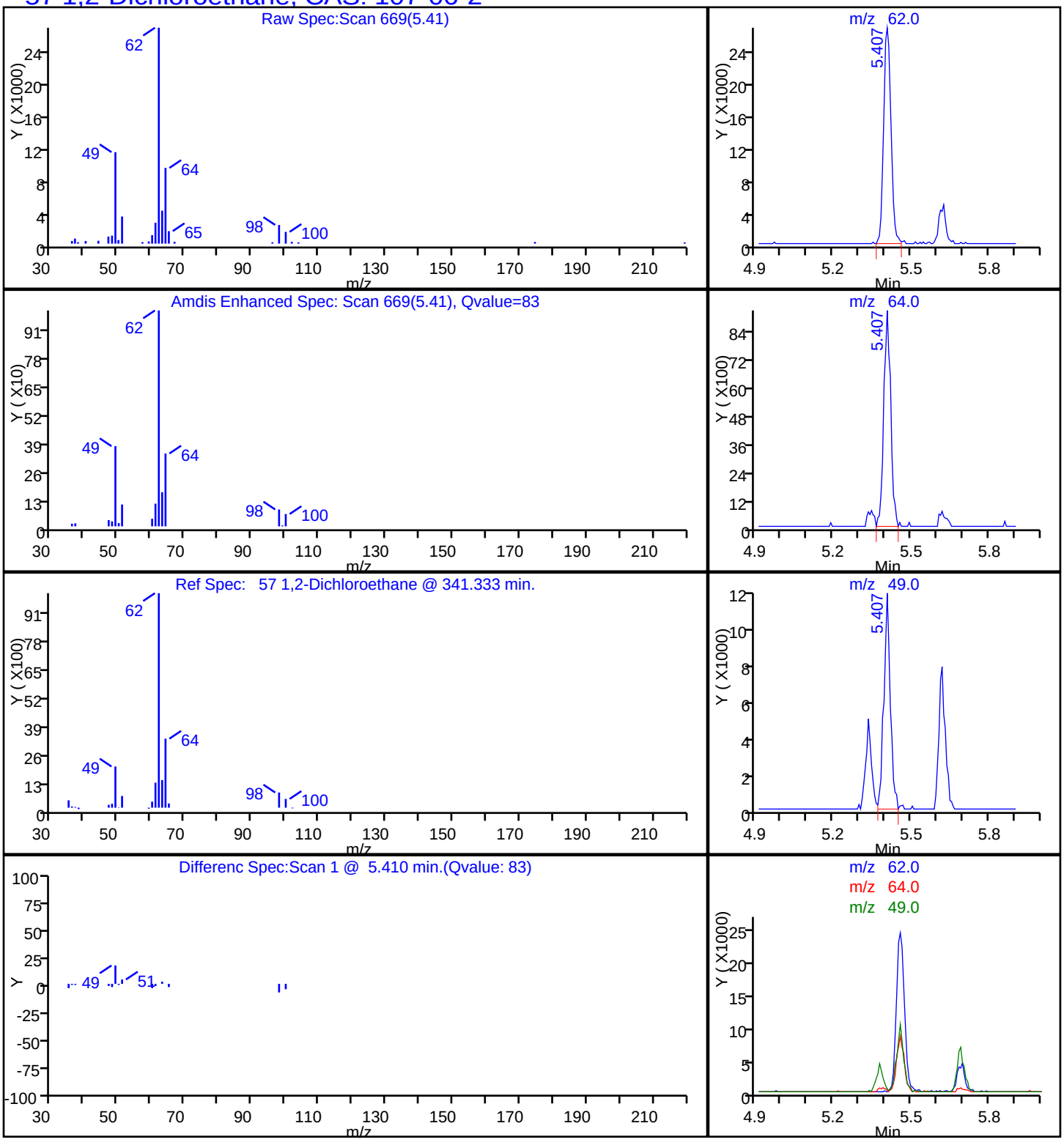
Report Date: 30-Apr-2014 19:57:57 Chrom Revision: 2.2 14-Apr-2014 13:40:08

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973G\20140430-31607.b\G29951.D

Injection Date:	30-Apr-2014 17:36:30	Instrument ID:	HP5973G		
Lims ID:	480-58807-B-1-C	Lab Sample ID:	480-58807-1		
Client ID:	P1-1(Sed)				
Operator ID:	NQ	ALS Bottle#:	48	Worklist Smp#:	26
Purge Vol:	5.000 mL	Dil. Factor:	10.0000		
Method:	G-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

57 1,2-Dichloroethane, CAS: 107-06-2



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-58807-1

SDG No.:

Client Sample ID: P1-2(Sed) | Lab Sample ID: 480-58807-2

Matrix: Solid (TCLP) | Lab File ID: G29952.D

Analysis Method: 8260C | Date Collected: 04/25/2014 00:00

Sample wt/vol: 5(mL) | Date Analyzed: 04/30/2014 17:59

Soil Aliquot Vol: | Dilution Factor: 10

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

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

Analysis Batch No.: 179119 | Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-35-4	1,1-Dichloroethene	ND		0.010	0.0029
107-06-2	1,2-Dichloroethane	ND		0.010	0.0021
78-93-3	2-Butanone (MEK)	ND		0.050	0.013
71-43-2	Benzene	ND		0.010	0.0041
56-23-5	Carbon tetrachloride	ND		0.010	0.0027
108-90-7	Chlorobenzene	ND		0.010	0.0075
67-66-3	Chloroform	ND		0.010	0.0034
127-18-4	Tetrachloroethene	ND		0.010	0.0036
79-01-6	Trichloroethene	ND		0.010	0.0046
75-01-4	Vinyl chloride	ND		0.010	0.0090

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	96		66-137
460-00-4	4-Bromofluorobenzene (Surr)	101		73-120
2037-26-5	Toluene-d8 (Surr)	100		71-126

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973G\20140430-31607.b\G29952.D
Lims ID: 480-58807-C-2-C Lab Sample ID: 480-58807-2
Client ID: P1-2(Sed)
Sample Type: Client
Inject. Date: 30-Apr-2014 17:59:30 ALS Bottle#: 49 Worklist Smp#: 27
Purge Vol: 5.000 mL Dil. Factor: 10.0000
Sample Info: 480-58807-C-2-C
Misc. Info.: 480-0031607-027 =480-0031607-027
Operator ID: NQ Instrument ID: HP5973G

Method: \\Bufchrom\ChromData\HP5973G\20140430-31607.b\G-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 30-Apr-2014 19:56:57 Calib Date: 10-Apr-2014 23:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5973G\20140410-30960.b\G29156.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK026

First Level Reviewer: goliszekg Date: 30-Apr-2014 20:00:06

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	96	5.620	5.620	0.000	98	533248	25.0	
* 2 Chlorobenzene-d5	82	8.620	8.620	0.000	89	216010	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.991	10.985	0.006	97	192522	25.0	
$ 4 1,2-Dichloroethane-d4 (Sur	67	5.334	5.334	0.000	0	82999	23.9	
$ 5 Toluene-d8 (Surr)	98	7.132	7.132	0.000	94	503516	25.1	
$ 6 4-Bromofluorobenzene (Surr	174	9.857	9.857	0.000	81	124516	25.3	
13 Vinyl chloride	62		1.707					
20 1,1-Dichloroethene	96		2.889					
44 2-Butanone (MEK)	43		4.584					
50 Chloroform	85		4.871					
53 Carbon tetrachloride	117		5.145					
56 Benzene	78		5.352					
57 1,2-Dichloroethane	62		5.401					
61 Trichloroethene	95		5.962					
80 Tetrachloroethene	166		7.742					
86 Chlorobenzene	112		8.644					

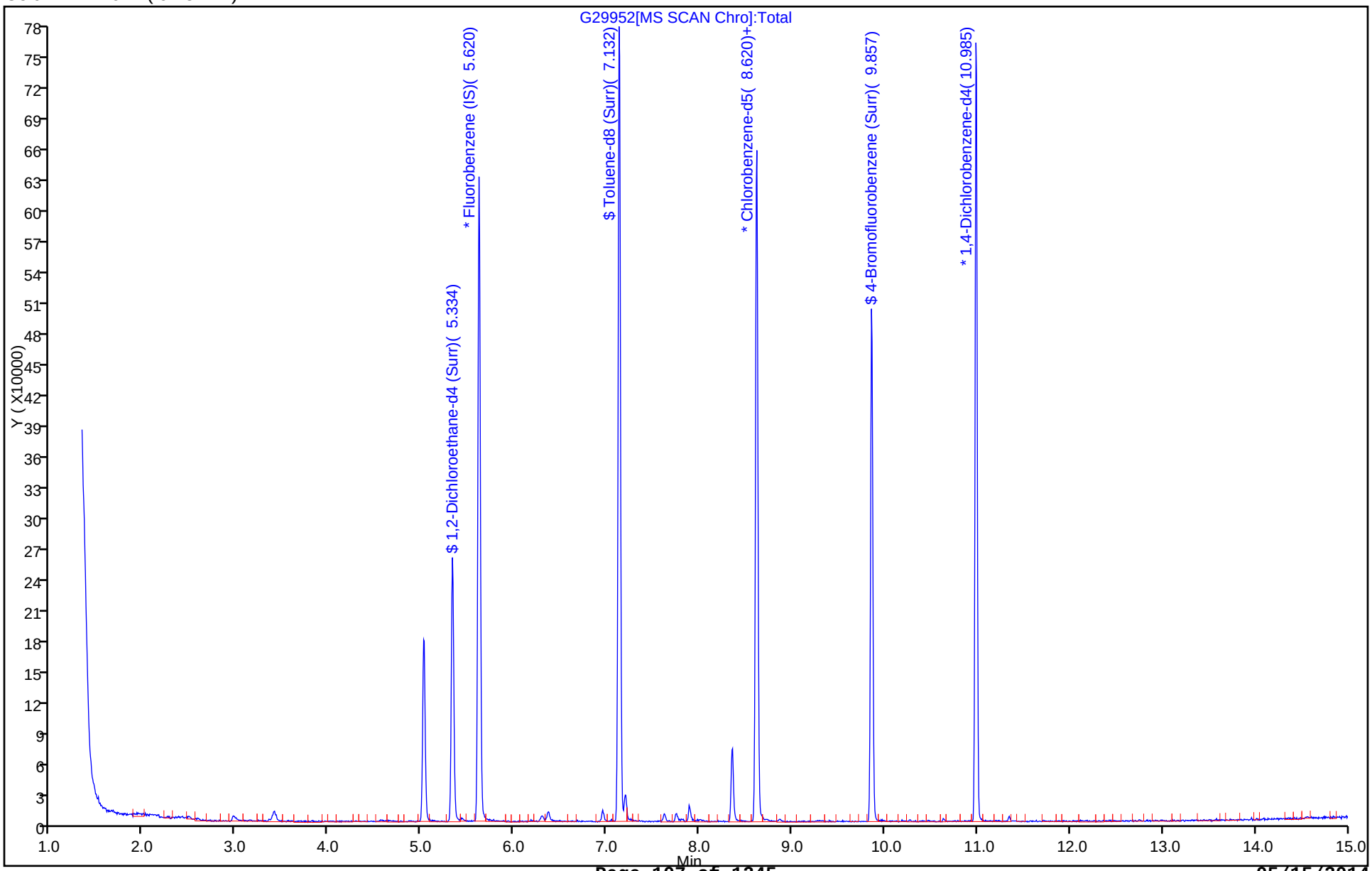
Report Date: 30-Apr-2014 20:00:06 Chrom Revision: 2.2 14-Apr-2014 13:40:08

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973G\20140430-31607.b\G29952.D

Injection Date:	30-Apr-2014 17:59:30	Instrument ID:	HP5973G	Operator ID:	NQ
Lims ID:	480-58807-C-2-C	Lab Sample ID:	480-58807-2	Worklist Smp#:	27
Client ID:	P1-2(Sed)				
Purge Vol:	5.000 mL	Dil. Factor:	10.0000	ALS Bottle#:	49
Method:	G-8260	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.: 480-58807-1

SDG No.:

Client Sample ID: P2-1(Sed) | Lab Sample ID: 480-58807-3

Matrix: Solid (TCLP) | Lab File ID: G29953.D

Analysis Method: 8260C | Date Collected: 04/25/2014 00:00

Sample wt/vol: 5(mL) | Date Analyzed: 04/30/2014 18:22

Soil Aliquot Vol: | Dilution Factor: 10

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

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

Analysis Batch No.: 179119 | Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-35-4	1,1-Dichloroethene	ND		0.010	0.0029
107-06-2	1,2-Dichloroethane	0.0075	J	0.010	0.0021
78-93-3	2-Butanone (MEK)	ND		0.050	0.013
71-43-2	Benzene	ND		0.010	0.0041
56-23-5	Carbon tetrachloride	ND		0.010	0.0027
108-90-7	Chlorobenzene	ND		0.010	0.0075
67-66-3	Chloroform	ND		0.010	0.0034
127-18-4	Tetrachloroethene	ND		0.010	0.0036
79-01-6	Trichloroethene	ND		0.010	0.0046
75-01-4	Vinyl chloride	ND		0.010	0.0090

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	98		66-137
460-00-4	4-Bromofluorobenzene (Surr)	101		73-120
2037-26-5	Toluene-d8 (Surr)	98		71-126

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973G\20140430-31607.b\G29953.D
Lims ID: 480-58807-B-3-C Lab Sample ID: 480-58807-3
Client ID: P2-1(Sed)
Sample Type: Client
Inject. Date: 30-Apr-2014 18:22:30 ALS Bottle#: 50 Worklist Smp#: 28
Purge Vol: 5.000 mL Dil. Factor: 10.0000
Sample Info: 480-58807-B-3-C
Misc. Info.: 480-0031607-028 =480-0031607-028
Operator ID: NQ Instrument ID: HP5973G

Method: \\Bufchrom\ChromData\HP5973G\20140430-31607.b\G-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 30-Apr-2014 19:56:57 Calib Date: 10-Apr-2014 23:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5973G\20140410-30960.b\G29156.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK026

First Level Reviewer: goliszekg Date: 30-Apr-2014 20:00:12

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	96	5.620	5.620	0.000	98	535852	25.0	
* 2 Chlorobenzene-d5	82	8.620	8.620	0.000	87	221356	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.991	10.985	0.006	97	196228	25.0	
$ 4 1,2-Dichloroethane-d4 (Sur	67	5.334	5.334	0.000	0	85457	24.5	
$ 5 Toluene-d8 (Surr)	98	7.132	7.132	0.000	94	506067	24.6	
$ 6 4-Bromofluorobenzene (Surr	174	9.863	9.857	0.006	82	127935	25.3	
13 Vinyl chloride	62		1.707					
20 1,1-Dichloroethene	96		2.889					
44 2-Butanone (MEK)	43		4.584					
50 Chloroform	85		4.871					
53 Carbon tetrachloride	117		5.145					
56 Benzene	78		5.352					
57 1,2-Dichloroethane	62	5.407	5.401	0.006	61	7262	0.7531	
61 Trichloroethene	95		5.962					
80 Tetrachloroethene	166		7.742					
86 Chlorobenzene	112		8.644					

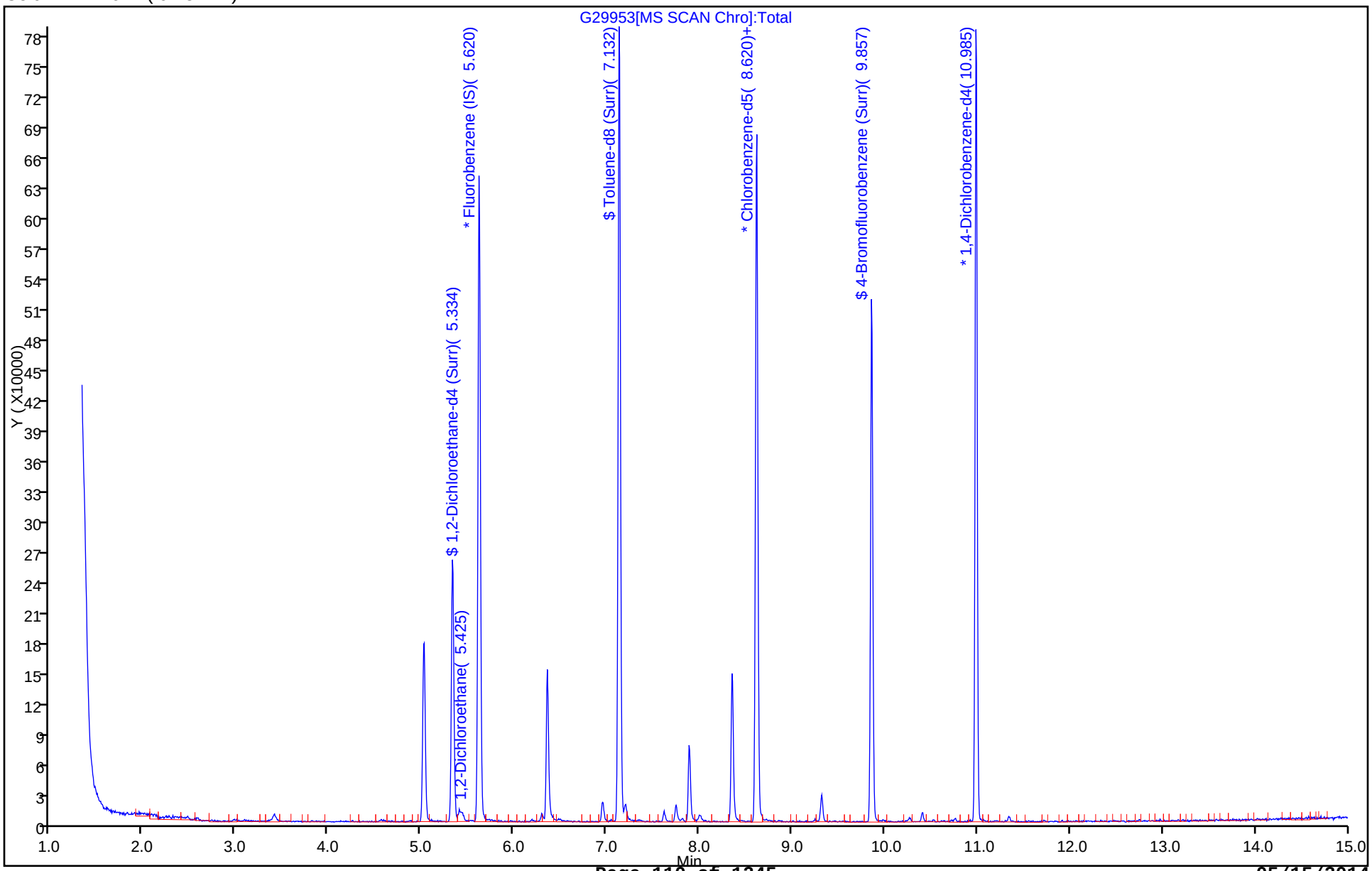
Report Date: 30-Apr-2014 20:00:12 Chrom Revision: 2.2 14-Apr-2014 13:40:08

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973G\20140430-31607.b\G29953.D

Injection Date:	30-Apr-2014 18:22:30	Instrument ID:	HP5973G	Operator ID:	NQ
Lims ID:	480-58807-B-3-C	Lab Sample ID:	480-58807-3	Worklist Smp#:	28
Client ID:	P2-1(Sed)				
Purge Vol:	5.000 mL	Dil. Factor:	10.0000	ALS Bottle#:	50
Method:	G-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



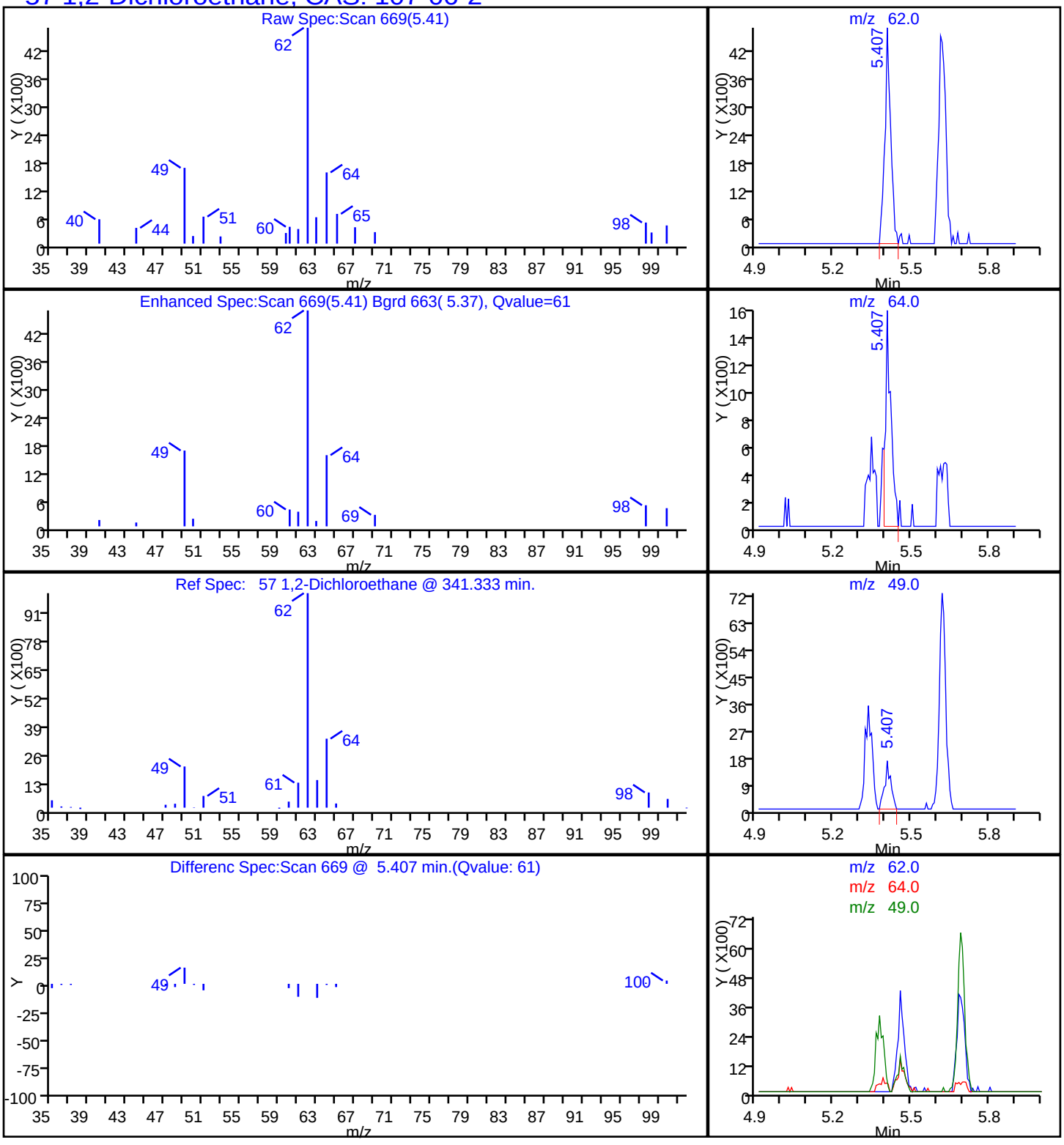
Report Date: 30-Apr-2014 20:00:12 Chrom Revision: 2.2 14-Apr-2014 13:40:08

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973G\20140430-31607.b\G29953.D

Injection Date:	30-Apr-2014 18:22:30	Instrument ID:	HP5973G		
Lims ID:	480-58807-B-3-C	Lab Sample ID:	480-58807-3		
Client ID:	P2-1(Sed)				
Operator ID:	NQ	ALS Bottle#:	50	Worklist Smp#:	28
Purge Vol:	5.000 mL	Dil. Factor:	10.0000		
Method:	G-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

57 1,2-Dichloroethane, CAS: 107-06-2



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-58807-1

SDG No.:

Client Sample ID: P2-2(Sed) | Lab Sample ID: 480-58807-4

Matrix: Solid (TCLP) | Lab File ID: G29954.D

Analysis Method: 8260C | Date Collected: 04/25/2014 00:00

Sample wt/vol: 5(mL) | Date Analyzed: 04/30/2014 18:45

Soil Aliquot Vol: | Dilution Factor: 10

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

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

Analysis Batch No.: 179119 | Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-35-4	1,1-Dichloroethene	ND		0.010	0.0029
107-06-2	1,2-Dichloroethane	ND		0.010	0.0021
78-93-3	2-Butanone (MEK)	ND		0.050	0.013
71-43-2	Benzene	ND		0.010	0.0041
56-23-5	Carbon tetrachloride	ND		0.010	0.0027
108-90-7	Chlorobenzene	ND		0.010	0.0075
67-66-3	Chloroform	ND		0.010	0.0034
127-18-4	Tetrachloroethene	ND		0.010	0.0036
79-01-6	Trichloroethene	ND		0.010	0.0046
75-01-4	Vinyl chloride	ND		0.010	0.0090

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		66-137
460-00-4	4-Bromofluorobenzene (Surr)	99		73-120
2037-26-5	Toluene-d8 (Surr)	99		71-126

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973G\20140430-31607.b\G29954.D
Lims ID: 480-58807-C-4-C Lab Sample ID: 480-58807-4
Client ID: P2-2(Sed)
Sample Type: Client
Inject. Date: 30-Apr-2014 18:45:30 ALS Bottle#: 51 Worklist Smp#: 29
Purge Vol: 5.000 mL Dil. Factor: 10.0000
Sample Info: 480-58807-C-4-C
Misc. Info.: 480-0031607-029 =480-0031607-029
Operator ID: NQ Instrument ID: HP5973G

Method: \\Bufchrom\ChromData\HP5973G\20140430-31607.b\G-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 30-Apr-2014 19:56:57 Calib Date: 10-Apr-2014 23:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5973G\20140410-30960.b\G29156.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK026

First Level Reviewer: goliszekg Date: 30-Apr-2014 20:00:18

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	96	5.620	5.620	0.000	98	524002	25.0	
* 2 Chlorobenzene-d5	82	8.620	8.620	0.000	87	217693	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.991	10.985	0.006	97	193224	25.0	
$ 4 1,2-Dichloroethane-d4 (Sur	67	5.334	5.334	0.000	0	84409	24.8	
$ 5 Toluene-d8 (Surr)	98	7.132	7.132	0.000	93	501500	24.8	
$ 6 4-Bromofluorobenzene (Surr	174	9.863	9.857	0.006	80	122376	24.6	
13 Vinyl chloride	62		1.707					
20 1,1-Dichloroethene	96		2.889					
44 2-Butanone (MEK)	43		4.584					
50 Chloroform	85		4.871					
53 Carbon tetrachloride	117		5.145					
56 Benzene	78		5.352					
57 1,2-Dichloroethane	62		5.401					
61 Trichloroethene	95		5.962					
80 Tetrachloroethene	166		7.742					
86 Chlorobenzene	112		8.644					

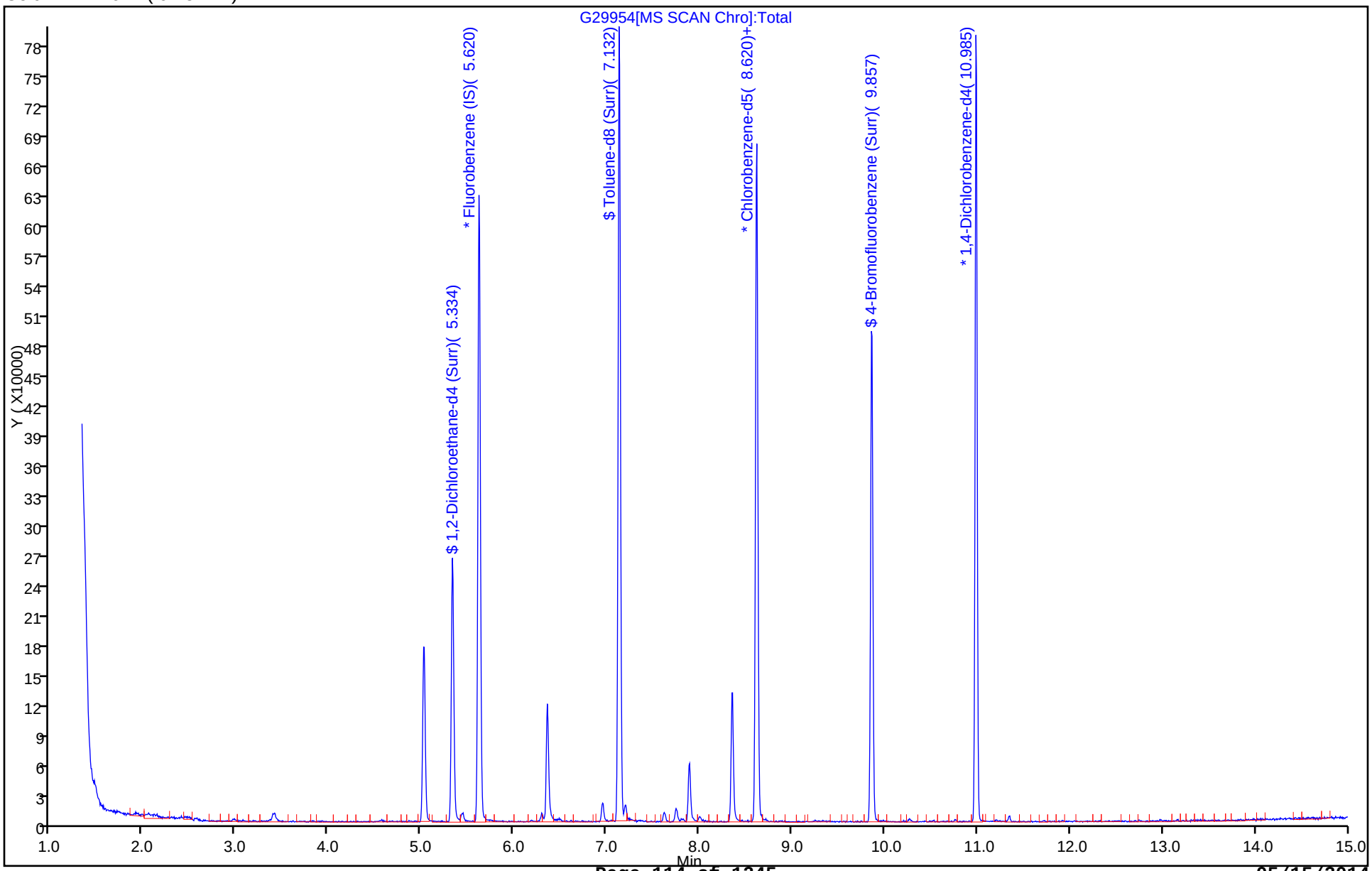
Report Date: 30-Apr-2014 20:00:18 Chrom Revision: 2.2 14-Apr-2014 13:40:08

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973G\20140430-31607.b\G29954.D

Injection Date:	30-Apr-2014 18:45:30	Instrument ID:	HP5973G	Operator ID:	NQ
Lims ID:	480-58807-C-4-C	Lab Sample ID:	480-58807-4	Worklist Smp#:	29
Client ID:	P2-2(Sed)				
Purge Vol:	5.000 mL	Dil. Factor:	10.0000	ALS Bottle#:	51
Method:	G-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



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

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1 Analy Batch No.: 175032

SDG No.:

Instrument ID: HP5973G GC Column: ZB-624 (60) ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/10/2014 17:45 Calibration End Date: 04/10/2014 20:03 Calibration ID: 18027

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-175032/5	G29141.D
Level 2	IC 480-175032/6	G29142.D
Level 3	IC 480-175032/7	G29143.D
Level 4	IC 480-175032/4	G29140.D
Level 5	ICIS 480-175032/8	G29144.D
Level 6	IC 480-175032/9	G29145.D
Level 7	IC 480-175032/10	G29146.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	0.3953 0.3845	0.3558 0.3590	0.3750		0.3695	Ave		0.3732			0.1000	4.0		20.0			
Chloromethane	0.7341 0.6526	0.6887 0.6315	0.6639		0.6375	Ave		0.6681			0.1000	5.7		20.0			
Vinyl chloride	0.4636 0.4856	0.4921 0.4648	0.4645		0.4687	Ave		0.4732			0.1000	2.6		20.0			
Butadiene	0.5272 0.5942	0.5923 0.5516	0.5723		0.5668	Ave		0.5674				4.5		20.0			
Bromomethane	0.1616 0.1617	0.1662 0.1585	0.1584		0.1475	Ave		0.1590			0.1000	4.0		20.0			
Chloroethane	0.2507 0.2439	0.2731 0.2525	0.2496		0.2485	Ave		0.2531			0.1000	4.0		20.0			
Dichlorofluoromethane	0.1821 0.3906	0.2932 0.4222	0.3210		0.3642	Lin1	-0.343	0.4072							0.9960		0.9900
Trichlorofluoromethane	0.2323 0.4296	0.3505 0.4275	0.3675		0.3909	Ave		0.3664			0.1000	20.0		20.0			
Ethyl ether	0.3712 0.3448	0.3387 0.3421	0.3338		0.3342	Ave		0.3442				4.1		20.0			
Acrolein	0.0720 0.0809	0.0720 0.0791	0.0701		0.0779	Ave		0.0753				5.9		20.0			
1,1,2-Trichloro-1,2,2-trifluoroethane	0.3079 0.3222	0.3227 0.2940	0.3019		0.2964	Ave		0.3075			0.1000	4.1		20.0			
1,1-Dichloroethene	0.3366 0.3594	0.3387 0.3511	0.3390		0.3364	Ave		0.3435			0.1000	2.8		20.0			
Acetone	0.1736 0.1578	0.1511 0.1575	0.1474		0.1494	Ave		0.1562			0.1000	6.1		20.0			
Iodomethane	0.3941 0.4634	0.4657 0.4486	0.4232		0.4520	Ave		0.4412				6.3		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.: 480-58807-1 Analy Batch No.: 175032

SDG No.:

Instrument ID: HP5973G GC Column: ZB-624 (60) ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/10/2014 17:45 Calibration End Date: 04/10/2014 20:03 Calibration ID: 18027

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	0.7098 0.9188	0.7890 0.9106	0.8121		0.8909	Ave		0.8385			0.1000	9.8		20.0			
Allyl chloride	0.6455 0.7274	0.6745 0.7200	0.6453		0.7212	Ave		0.6890				5.6		20.0			
Methyl acetate	0.4385 0.4390	0.4404 0.4211	0.4275		0.4281	Ave		0.4324			0.1000	1.8		20.0			
Methylene Chloride	0.5243 0.3482	0.3919 0.3338	0.3527		0.3455	Ave		0.3827			0.1000	19.0		20.0			
2-Methyl-2-propanol	0.0394 0.0583	0.0483 0.0619	0.0446		0.0556	Ave		0.0513				17.0		20.0			
Methyl tert-butyl ether	0.8686 0.9004	0.8793 0.8972	0.8541		0.8755	Ave		0.8792			0.1000	2.0		20.0			
trans-1,2-Dichloroethene	0.2658 0.2943	0.2856 0.2843	0.2865		0.2880	Ave		0.2841			0.1000	3.4		20.0			
Acrylonitrile	0.2184 0.2244	0.2229 0.2129	0.2163	0.2203	0.2180	Ave		0.2190				1.8		20.0			
Hexane	0.6609 0.6351	0.6090 0.6056	0.5922		0.6336	Ave		0.6227				4.0		20.0			
1,1-Dichloroethane	0.5361 0.5864	0.5651 0.5539	0.5503		0.5646	Ave		0.5594			0.2000	3.0		20.0			
Vinyl acetate	0.7536 0.9569	0.7943 0.9349	0.8361		0.8956	Ave		0.8619				9.3		20.0			
2,2-Dichloropropane	0.1605 0.1721	0.1497 0.1651	0.1458		0.1624	Ave		0.1593				6.2		20.0			
cis-1,2-Dichloroethene	0.2986 0.2913	0.2721 0.2798	0.2791		0.2822	Ave		0.2838			0.1000	3.4		20.0			
2-Butanone (MEK)	0.2515 0.2808	0.2666 0.2717	0.2632		0.2693	Ave		0.2672			0.1000	3.6		20.0			
Chlorobromomethane	0.1433 0.1387	0.1323 0.1327	0.1295		0.1340	Ave		0.1351				3.7		20.0			
Tetrahydrofuran	0.2192 0.1966	0.1997 0.1963	0.1814		0.1889	Ave		0.1970				6.4		20.0			
Chloroform	0.3249 0.2982	0.2848 0.2905	0.2754		0.2918	Ave		0.2943			0.2000	5.7		20.0			
1,1,1-Trichloroethane	0.2404 0.3214	0.2796 0.3252	0.2734		0.3072	Ave		0.2912			0.1000	11.0		20.0			
Cyclohexane	0.8275 0.9015	0.8315 0.8672	0.8491		0.8808	Ave		0.8596			0.1000	3.4		20.0			
Carbon tetrachloride	0.2143 0.2949	0.2309 0.3097	0.2280		0.2562	Ave		0.2557			0.1000	15.0		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.: 480-58807-1 Analy Batch No.: 175032

SDG No.:

Instrument ID: HP5973G GC Column: ZB-624 (60) ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/10/2014 17:45 Calibration End Date: 04/10/2014 20:03 Calibration ID: 18027

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								
1,1-Dichloropropene	0.3155 0.3655	0.3471 0.3514	0.3454		0.3520	Ave		0.3461				4.8		20.0			
Isobutyl alcohol	0.0151 0.0330	0.0214 0.0344	0.0248		0.0297	Lin1	-0.772	0.0334							0.9950		0.9900
Benzene	1.0930 1.1019	1.0731 1.0502	1.0696		1.0627	Ave		1.0751			0.5000	1.8		20.0			
1,2-Dichloroethane	0.4616 0.4611	0.4411 0.4457	0.4413		0.4485	Ave		0.4499			0.1000	2.1		20.0			
n-Heptane	0.7845 0.7429	0.6932 0.6996	0.6993		0.7291	Ave		0.7248				4.9		20.0			
Trichloroethene	0.2834 0.2737	0.2600 0.2687	0.2635		0.2744	Ave		0.2706			0.2000	3.1		20.0			
Methylcyclohexane	0.4889 0.5462	0.4892 0.5323	0.4870		0.5145	Ave		0.5097			0.1000	5.0		20.0			
1,2-Dichloropropane	0.3370 0.3417	0.3196 0.3327	0.3244		0.3302	Ave		0.3310			0.1000	2.4		20.0			
Dibromomethane	0.1652 0.1622	0.1525 0.1546	0.1471		0.1519	Ave		0.1556			0.1000	4.4		20.0			
1,4-Dioxane	0.0076 0.0084	0.0072 0.0083	0.0077		0.0087	Ave		0.0080				6.9		20.0			
Bromodichloromethane	0.2500 0.3335	0.2743 0.3426	0.2760		0.3169	Ave		0.2989			0.2000	12.0		20.0			
2-Chloroethyl vinyl ether	0.2176 0.2596	0.2230 0.2593	0.2278		0.2422	Ave		0.2383				7.7		20.0			
cis-1,3-Dichloropropene	0.3288 0.4321	0.3387 0.4370	0.3514		0.3950	Ave		0.3805			0.2000	13.0		20.0			
4-Methyl-2-pentanone (MIBK)	1.1986 1.3163	1.2725 1.1956	1.2508		1.2638	Ave		1.2496			0.1000	3.7		20.0			
Toluene	1.7543 1.7419	1.7245 1.6150	1.6686		1.6855	Ave		1.6983			0.4000	3.1		20.0			
trans-1,3-Dichloropropene	0.5557 0.9233	0.6667 0.9254	0.7069		0.8063	Ave		0.7640			0.1000	19.0		20.0			
Ethyl methacrylate	0.7529 1.0121	0.8522 0.9819	0.8773		0.9420	Ave		0.9031				11.0		20.0			
1,1,2-Trichloroethane	0.5104 0.4945	0.4942 0.4661	0.4592		0.4726	Ave		0.4828			0.1000	4.1		20.0			
Tetrachloroethene	0.5879 0.5991	0.5839 0.5694	0.5840		0.5887	Ave		0.5855			0.2000	1.7		20.0			
1,3-Dichloropropane	1.1121 1.1284	1.0251 1.0737	1.0772		1.0878	Ave		1.0840				3.3		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.: 480-58807-1 Analy Batch No.: 175032

SDG No.:

Instrument ID: HP5973G GC Column: ZB-624 (60) ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/10/2014 17:45 Calibration End Date: 04/10/2014 20:03 Calibration ID: 18027

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	0.7881 0.9377	0.8896 0.8742	0.8888		0.9053	Ave		0.8806			0.1000	5.7		20.0			
Dibromochloromethane	0.2817 0.5681	0.3836 0.6010	0.4124		0.4882	Lin1	-0.520	0.5770			0.1000				0.9920		0.9900
1,2-Dibromoethane	0.5487 0.6292	0.5732 0.6011	0.5751		0.5997	Ave		0.5879				4.8		20.0			
Chlorobenzene	1.8063 1.8675	1.8549 1.7845	1.8230		1.8356	Ave		1.8287			0.5000	1.7		20.0			
1,1,1,2-Tetrachloroethane	0.3515 0.5365	0.4084 0.5333	0.4210		0.4743	Ave		0.4542				16.0		20.0			
Ethylbenzene	3.0937 3.2600	3.1038 3.0588	3.1053		3.1258	Ave		3.1246			0.1000	2.2		20.0			
m,p-Xylene	1.1547 1.3047	1.2413 1.2343	1.2121		1.2332	Ave		1.2301			0.1000	3.9		20.0			
o-Xylene	1.1273 1.2513	1.1027 1.1952	1.1245		1.2160	Ave		1.1695			0.3000	5.1		20.0			
Styrene	1.8260 2.1993	2.0074 2.0942	2.0731		2.0858	Ave		2.0476			0.3000	6.1		20.0			
Bromoform	0.1569 0.2973	0.1643 0.3295	0.1907		0.2394	Lin	-1.237	0.3357			0.1000				0.9960		0.9900
Isopropylbenzene	3.2085 3.8373	3.7167 3.4991	3.6370		3.7087	Ave		3.6012			0.1000	6.2		20.0			
Bromobenzene	0.7968 0.8460	0.8314 0.7827	0.7976		0.8080	Ave		0.8104				2.9		20.0			
1,1,2,2-Tetrachloroethane	0.8704 0.9999	0.9141 0.9284	0.9211		0.9401	Ave		0.9290			0.3000	4.5		20.0			
1,2,3-Trichloropropane	0.3154 0.3399	0.3344 0.3141	0.3216		0.3336	Ave		0.3265				3.3		20.0			
trans-1,4-Dichloro-2-butene	0.3320 0.4583	0.3571 0.4475	0.3759		0.4083	Ave		0.3965				13.0		20.0			
N-Propylbenzene	4.1572 4.4671	4.2410 4.0388	4.2788		4.2716	Ave		4.2424				3.4		20.0			
2-Chlorotoluene	0.8816 0.8714	0.8622 0.8054	0.8501		0.8513	Ave		0.8537				3.1		20.0			
1,3,5-Trimethylbenzene	2.8794 3.2909	3.0556 3.0821	3.0841		3.1848	Ave		3.0961				4.4		20.0			
4-Chlorotoluene	0.8958 0.9184	0.9071 0.8565	0.8569		0.8917	Ave		0.8877				2.9		20.0			
tert-Butylbenzene	0.6504 0.7138	0.6788 0.6568	0.6509		0.6785	Ave		0.6715				3.6		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.: 480-58807-1 Analy Batch No.: 175032

SDG No.:

Instrument ID: HP5973G GC Column: ZB-624 (60) ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/10/2014 17:45 Calibration End Date: 04/10/2014 20:03 Calibration ID: 18027

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	2.8840 3.4099	3.2783 3.1880	3.1362		3.2729	Ave		3.1949				5.6		20.0			
sec-Butylbenzene	3.6177 4.1508	4.0292 3.8688	3.9939		4.0446	Ave		3.9508				4.7		20.0			
1,3-Dichlorobenzene	1.6822 1.6655	1.6259 1.5579	1.6346		1.6468	Ave		1.6355			0.6000	2.6		20.0			
4-Isopropyltoluene	3.2710 3.5984	3.3981 3.3642	3.4062		3.4477	Ave		3.4143				3.2		20.0			
1,4-Dichlorobenzene	1.8158 1.7177	1.7209 1.6063	1.6494		1.6901	Ave		1.7000			0.5000	4.2		20.0			
n-Butylbenzene	2.8520 3.2553	3.0605 3.0987	3.0762		3.1056	Ave		3.0747				4.2		20.0			
1,2-Dichlorobenzene	1.5884 1.6324	1.6020 1.5673	1.6171		1.6053	Ave		1.6021			0.4000	1.4		20.0			
1,2-Dibromo-3-Chloropropane	0.1332 0.2221	0.1595 0.2266	0.1527		0.1931	Lin1	-0.171	0.2203			0.0500				0.9930		0.9900
1,2,4-Trichlorobenzene	0.9787 1.1618	1.0674 1.1202	1.0546		1.0749	Ave		1.0763			0.2000	5.8		20.0			
Hexachlorobutadiene	0.4747 0.4727	0.4313 0.4712	0.4057		0.4338	Ave		0.4482				6.4		20.0			
Naphthalene	3.0441 4.2001	3.7423 4.0199	3.7383		3.9093	Ave		3.7757				11.0		20.0			
1,2,3-Trichlorobenzene	1.0321 1.1189	1.0826 1.0851	1.0030		1.0588	Ave		1.0634				3.9		20.0			
Dibromofluoromethane (Surr)	0.2084 0.2213	0.2182 0.2171	0.2105	0.2043	0.2147	Ave		0.2135				2.8		20.0			
1,2-Dichloroethane-d4 (Surr)	0.1662 0.1646	0.1654 0.1548	0.1618	0.1634	0.1612	Ave		0.1625				2.4		20.0			
Toluene-d8 (Surr)	2.3141 2.4121	2.3846 2.2809	2.3423	2.2435	2.3059	Ave		2.3262				2.5		20.0			
4-Bromofluorobenzene (Surr)	0.5444 0.6041	0.5802 0.5821	0.5772	0.5459	0.5600	Ave		0.5706				3.8		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 RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1 Analy Batch No.: 175032

SDG No.:

Instrument ID: HP5973G GC Column: ZB-624 (60) ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/10/2014 17:45 Calibration End Date: 04/10/2014 20:03 Calibration ID: 18027

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-175032/5	G29141.D
Level 2	IC 480-175032/6	G29142.D
Level 3	IC 480-175032/7	G29143.D
Level 4	IC 480-175032/4	G29140.D
Level 5	ICIS 480-175032/8	G29144.D
Level 6	IC 480-175032/9	G29145.D
Level 7	IC 480-175032/10	G29146.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			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
Dichlorodifluoromethane	FB	Ave	11078 526687	47670 1009059	104652		258503	1.00 50.0	5.00 100	10.0		25.0
Chloromethane	FB	Ave	20571 893965	92285 1774784	185270		445994	1.00 50.0	5.00 100	10.0		25.0
Vinyl chloride	FB	Ave	12992 665233	65933 1306217	129630		327883	1.00 50.0	5.00 100	10.0		25.0
Butadiene	FB	Ave	14773 813939	79367 1550190	159714		396518	1.00 50.0	5.00 100	10.0		25.0
Bromomethane	FB	Ave	4529 221550	22263 445435	44205		103214	1.00 50.0	5.00 100	10.0		25.0
Chloroethane	FB	Ave	7024 334152	36591 709649	69664		173852	1.00 50.0	5.00 100	10.0		25.0
Dichlorofluoromethane	FB	Lin1	5104 535034	39285 1186633	89575		254764	1.00 50.0	5.00 100	10.0		25.0
Trichlorofluoromethane	FB	Ave	6511 588553	46962 1201439	102557		273454	1.00 50.0	5.00 100	10.0		25.0
Ethyl ether	FB	Ave	10403 472386	45380 961589	93165		233774	1.00 50.0	5.00 100	10.0		25.0
Acrolein	FB	Ave	10092 553884	48250 1110870	97779		272315	5.00 250	25.0 500	50.0		125
1,1,2-Trichloro-1,2,2-trifluoroetha ne	FB	Ave	8628 441337	43237 826339	84259		207336	1.00 50.0	5.00 100	10.0		25.0
1,1-Dichloroethene	FB	Ave	9432 492354	45384 986758	94605		235322	1.00 50.0	5.00 100	10.0		25.0
Acetone	FB	Ave	24320 1081016	101265 2213466	205722		522699	5.00 250	25.0 500	50.0		125
Iodomethane	FB	Ave	11045 634788	62407 1260865	118094		316229	1.00 50.0	5.00 100	10.0		25.0
Carbon disulfide	FB	Ave	19891 1258628	105717 2559125	226623		623256	1.00 50.0	5.00 100	10.0		25.0

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

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1 Analy Batch No.: 175032

SDG No.:

Instrument ID: HP5973G GC Column: ZB-624 (60) ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/10/2014 17:45 Calibration End Date: 04/10/2014 20:03 Calibration ID: 18027

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			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
Allyl chloride	FB	Ave	18090 996452	90376 2023464	180080		504545	1.00 50.0	5.00 100	10.0		25.0
Methyl acetate	FB	Ave	61434 3006591	295061 5917190	596551		1497382	5.00 250	25.0 500	50.0		125
Methylene Chloride	FB	Ave	14692 477043	52517 938179	98438		241678	1.00 50.0	5.00 100	10.0		25.0
2-Methyl-2-propanol	FB	Ave	11032 798754	64665 1740780	124424		389110	10.0 500	50.0 1000	100		250
Methyl tert-butyl ether	FB	Ave	24340 1233390	117824 2521688	238340		612468	1.00 50.0	5.00 100	10.0		25.0
trans-1,2-Dichloroethene	FB	Ave	7448 403181	38271 798979	79958		201450	1.00 50.0	5.00 100	10.0		25.0
Acrylonitrile	FB	Ave	61210 3073377	298687 5984827	603553	30630	1525339	10.0 500	50.0 1000	100	5.00	250
Hexane	FB	Ave	18521 869977	81596 1701976	165266		443210	1.00 50.0	5.00 100	10.0		25.0
1,1-Dichloroethane	FB	Ave	15022 803262	75724 1556752	153571		394934	1.00 50.0	5.00 100	10.0		25.0
Vinyl acetate	FB	Ave	42239 2621805	212851 5254812	466640		1253002	2.00 100	10.0 200	20.0		50.0
2,2-Dichloropropane	FB	Ave	4498 235695	20063 464058	40687		113596	1.00 50.0	5.00 100	10.0		25.0
cis-1,2-Dichloroethene	FB	Ave	8368 399107	36456 786390	77884		197396	1.00 50.0	5.00 100	10.0		25.0
2-Butanone (MEK)	FB	Ave	35235 1923521	178641 3817829	367233		942106	5.00 250	25.0 500	50.0		125
Chlorobromomethane	FB	Ave	4017 190006	17729 372914	36153		93706	1.00 50.0	5.00 100	10.0		25.0
Tetrahydrofuran	FB	Ave	12283 538513	53527 1103300	101271		264315	2.00 100	10.0 200	20.0		50.0
Chloroform	FB	Ave	9106 408450	38165 816453	76847		204149	1.00 50.0	5.00 100	10.0		25.0
1,1,1-Trichloroethane	FB	Ave	6737 440240	37466 913931	76310		214896	1.00 50.0	5.00 100	10.0		25.0
Cyclohexane	FB	Ave	23188 1234972	111421 2437242	236956		616154	1.00 50.0	5.00 100	10.0		25.0
Carbon tetrachloride	FB	Ave	6005 404037	30942 870449	63616		179221	1.00 50.0	5.00 100	10.0		25.0
1,1-Dichloropropene	FB	Ave	8841 500655	46506 987524	96395		246231	1.00 50.0	5.00 100	10.0		25.0
Isobutyl alcohol	FB	Lin1	10576 1128647	71843 2419775	172867		518634	25.0 1250	125 2500	250		625

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

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1 Analy Batch No.: 175032

SDG No.:

Instrument ID: HP5973G GC Column: ZB-624 (60) ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/10/2014 17:45 Calibration End Date: 04/10/2014 20:03 Calibration ID: 18027

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			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	30629 1509535	143791 2951701	298491		743415	1.00 50.0	5.00 100	10.0		25.0
1,2-Dichloroethane	FB	Ave	12934 631651	59099 1252618	123166		313779	1.00 50.0	5.00 100	10.0		25.0
n-Heptane	FB	Ave	21983 1017709	92889 1966348	195153		510048	1.00 50.0	5.00 100	10.0		25.0
Trichloroethene	FB	Ave	7941 374946	34836 755093	73524		191929	1.00 50.0	5.00 100	10.0		25.0
Methylcyclohexane	FB	Ave	13701 748227	65552 1496127	135908		359883	1.00 50.0	5.00 100	10.0		25.0
1,2-Dichloropropane	FB	Ave	9443 468149	42830 935097	90529		231016	1.00 50.0	5.00 100	10.0		25.0
Dibromomethane	FB	Ave	4630 222204	20436 434536	41039		106270	1.00 50.0	5.00 100	10.0		25.0
1,4-Dioxane	CBZ	Ave	1807 95683	8051 199509	17709		50731	20.0 1000	100 2000	200		500
Bromodichloromethane	FB	Ave	7006 456889	36757 963016	77010		221676	1.00 50.0	5.00 100	10.0		25.0
2-Chloroethyl vinyl ether	FB	Ave	6099 355681	29887 728695	63581		169440	1.00 50.0	5.00 100	10.0		25.0
cis-1,3-Dichloropropene	FB	Ave	9214 591874	45385 1228148	98054		276304	1.00 50.0	5.00 100	10.0		25.0
4-Methyl-2-pentanone (MIBK)	CBZ	Ave	70787 3767050	355244 7185848	721579		1850226	5.00 250	25.0 500	50.0		125
Toluene	CBZ	Ave	20720 997007	96285 1941267	192532		493518	1.00 50.0	5.00 100	10.0		25.0
trans-1,3-Dichloropropene	CBZ	Ave	6563 528477	37225 1112279	81567		236085	1.00 50.0	5.00 100	10.0		25.0
Ethyl methacrylate	CBZ	Ave	8893 579257	47581 1180272	101221		275808	1.00 50.0	5.00 100	10.0		25.0
1,1,2-Trichloroethane	CBZ	Ave	6028 283054	27593 560303	52982		138366	1.00 50.0	5.00 100	10.0		25.0
Tetrachloroethene	CBZ	Ave	6944 342926	32599 684401	67384		172363	1.00 50.0	5.00 100	10.0		25.0
1,3-Dichloropropane	CBZ	Ave	13135 645849	57238 1290543	124287		318506	1.00 50.0	5.00 100	10.0		25.0
2-Hexanone	CBZ	Ave	46542 2683647	248356 5253760	512785		1325358	5.00 250	25.0 500	50.0		125
Dibromochloromethane	CBZ	Lin1	3261 318645	20989 707908	46635		140084	0.980 49.0	4.90 98.0	9.80		24.5
1,2-Dibromoethane	CBZ	Ave	6481 360157	32006 722512	66362		175585	1.00 50.0	5.00 100	10.0		25.0

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

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1 Analy Batch No.: 175032

SDG No.:

Instrument ID: HP5973G GC Column: ZB-624 (60) ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/10/2014 17:45 Calibration End Date: 04/10/2014 20:03 Calibration ID: 18027

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			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	21335 1068909	103568 2144917	210344		537466	1.00 50.0	5.00 100	10.0		25.0
1,1,1,2-Tetrachloroethane	CBZ	Ave	4152 307064	22801 641029	48580		138886	1.00 50.0	5.00 100	10.0		25.0
Ethylbenzene	CBZ	Ave	36540 1865911	173298 3676726	358304		915202	1.00 50.0	5.00 100	10.0		25.0
m,p-Xylene	CBZ	Ave	13638 746755	69307 1483677	139857		361084	1.00 50.0	5.00 100	10.0		25.0
o-Xylene	CBZ	Ave	13315 716198	61569 1436659	129748		356044	1.00 50.0	5.00 100	10.0		25.0
Styrene	CBZ	Ave	21567 1258770	112083 2517236	239199		610702	1.00 50.0	5.00 100	10.0		25.0
Bromoform	CBZ	Lin	1853 170175	9174 396095	22007		70100	1.00 50.0	5.00 100	10.0		25.0
Isopropylbenzene	DCB	Ave	31946 1859283	174590 3725279	353426		918428	1.00 50.0	5.00 100	10.0		25.0
Bromobenzene	DCB	Ave	7933 409898	39053 833311	77509		200093	1.00 50.0	5.00 100	10.0		25.0
1,1,2,2-Tetrachloroethane	DCB	Ave	8666 484484	42940 988355	89507		232800	1.00 50.0	5.00 100	10.0		25.0
1,2,3-Trichloropropane	DCB	Ave	3140 164702	15708 334377	31254		82617	1.00 50.0	5.00 100	10.0		25.0
trans-1,4-Dichloro-2-butene	DCB	Ave	3306 222065	16777 476370	36530		101108	1.00 50.0	5.00 100	10.0		25.0
N-Propylbenzene	DCB	Ave	41392 2164450	199220 4299783	415795		1057843	1.00 50.0	5.00 100	10.0		25.0
2-Chlorotoluene	DCB	Ave	8778 422198	40504 857481	82608		210824	1.00 50.0	5.00 100	10.0		25.0
1,3,5-Trimethylbenzene	DCB	Ave	28669 1594517	143536 3281311	299698		788687	1.00 50.0	5.00 100	10.0		25.0
4-Chlorotoluene	DCB	Ave	8919 444994	42610 911841	83272		220827	1.00 50.0	5.00 100	10.0		25.0
tert-Butylbenzene	DCB	Ave	6476 345877	31885 699292	63252		168017	1.00 50.0	5.00 100	10.0		25.0
1,2,4-Trimethylbenzene	DCB	Ave	28715 1652198	153996 3394086	304764		810507	1.00 50.0	5.00 100	10.0		25.0
sec-Butylbenzene	DCB	Ave	36020 2011193	189270 4118866	388109		1001620	1.00 50.0	5.00 100	10.0		25.0
1,3-Dichlorobenzene	DCB	Ave	16749 806979	76376 1658550	158840		407821	1.00 50.0	5.00 100	10.0		25.0
4-Isopropyltoluene	DCB	Ave	32568 1743495	159624 3581670	331002		853790	1.00 50.0	5.00 100	10.0		25.0

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

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1 Analy Batch No.: 175032

SDG No.:

Instrument ID: HP5973G GC Column: ZB-624 (60) ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/10/2014 17:45 Calibration End Date: 04/10/2014 20:03 Calibration ID: 18027

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			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	18079 832268	80840 1710166	160281		418548	1.00 50.0	5.00 100	10.0		25.0
n-Butylbenzene	DCB	Ave	28396 1577285	143766 3298965	298928		769079	1.00 50.0	5.00 100	10.0		25.0
1,2-Dichlorobenzene	DCB	Ave	15815 790958	75253 1668550	157142		397535	1.00 50.0	5.00 100	10.0		25.0
1,2-Dibromo-3-Chloropropane	DCB	Lin1	1326 107624	7493 241281	14838		47822	1.00 50.0	5.00 100	10.0		25.0
1,2,4-Trichlorobenzene	DCB	Ave	9745 562925	50140 1192630	102477		266195	1.00 50.0	5.00 100	10.0		25.0
Hexachlorobutadiene	DCB	Ave	4726 229057	20258 501644	39429		107424	1.00 50.0	5.00 100	10.0		25.0
Naphthalene	DCB	Ave	30309 2035077	175793 4279758	363274		968110	1.00 50.0	5.00 100	10.0		25.0
1,2,3-Trichlorobenzene	DCB	Ave	10276 542126	50857 1155180	97465		262194	1.00 50.0	5.00 100	10.0		25.0
Dibromofluoromethane (Surr)	FB	Ave	145995 151574	146200 152573	146870	141998	150214	25.0 25.0	25.0 25.0	25.0	25.0	25.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	116466 112708	110840 108751	112868	113558	112800	25.0 25.0	25.0 25.0	25.0	25.0	25.0
Toluene-d8 (Surr)	CBZ	Ave	683315 690281	665708 685425	675654	652073	675158	25.0 25.0	25.0 25.0	25.0	25.0	25.0
4-Bromofluorobenzene (Surr)	CBZ	Ave	160758 172879	161984 174916	166496	158668	163953	25.0 25.0	25.0 25.0	25.0	25.0	25.0

Curve Type Legend:

Ave = Average ISTD
Lin = Linear ISTD
Lin1 = Linear 1/conc ISTD

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973G\20140410-30960.b\G29140.D
Lims ID: IC 0.5
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 10-Apr-2014 17:45:30 ALS Bottle#: 2 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 0.5
Misc. Info.: 480-0030960-004 =480-0030960-004
Operator ID: RAL Instrument ID: HP5973G
Sublist: chrom-G-8260*sub20

Method: \\Bufchrom\ChromData\HP5973G\20140410-30960.b\G-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 11-Apr-2014 08:54:25 Calib Date: 10-Apr-2014 23:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5973G\20140410-30960.b\G29156.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK040

First Level Reviewer: larsonr Date: 11-Apr-2014 08:54:25

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/L	Flags
* 147 Fluorobenzene (IS)	96	5.620	5.620	0.0	98	695177	25.0	
* 2 Chlorobenzene-d5	82	8.620	8.620	0.0	88	290649	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.991	10.991	0.0	97	244009	25.0	
$ 148 Dibromofluoromethane (Surr)	113	5.023	5.023	0.0	79	141998	23.9	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	5.334	5.334	0.0	0	113558	25.1	
$ 5 Toluene-d8 (Surr)	98	7.132	7.132	0.0	94	652073	24.1	
$ 6 4-Bromofluorobenzene (Surr)	174	9.857	9.863	-0.006	80	158668	23.9	
10 Dichlorodifluoromethane	85		1.444					
12 Chloromethane	50		1.591					
13 Vinyl chloride	62		1.712					
144 Butadiene	54		1.731					
14 Bromomethane	94		2.011					
15 Chloroethane	64		2.139					
16 Dichlorofluoromethane	67		2.365					
17 Trichlorofluoromethane	101		2.389					
18 Ethyl ether	59		2.633					
19 Acrolein	56		2.798					
21 1,1,2-Trichloro-1,2,2-trifluoroe	101		2.889					
20 1,1-Dichloroethene	96		2.895					
22 Acetone	43		2.956					
23 Iodomethane	142		3.054					
24 Carbon disulfide	76		3.102					
26 3-Chloro-1-propene	41		3.218					
28 Methyl acetate	43		3.261					
29 Methylene Chloride	84		3.407					
30 2-Methyl-2-propanol	59		3.517					
31 Methyl tert-butyl ether	73		3.590					
32 trans-1,2-Dichloroethene	96		3.596					
33 Acrylonitrile	53	3.633	3.621	0.012	96	30630	5.05	
34 Hexane	57		3.816					

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/L	Flags
36 1,1-Dichloroethane	63		4.011					
38 Vinyl acetate	43		4.060					
42 2,2-Dichloropropane	77		4.535					
43 cis-1,2-Dichloroethene	96		4.559					
44 2-Butanone (MEK)	43		4.590					
48 Chlorobromomethane	128		4.791					
49 Tetrahydrofuran	42		4.828					
50 Chloroform	85		4.870					
51 1,1,1-Trichloroethane	97		4.998					
52 Cyclohexane	56		5.029					
53 Carbon tetrachloride	117		5.145					
54 1,1-Dichloropropene	75		5.157					
55 Isobutyl alcohol	43		5.340					
56 Benzene	78		5.352					
57 1,2-Dichloroethane	62		5.401					
59 n-Heptane	43		5.553					
61 Trichloroethene	95		5.962					
62 Methylcyclohexane	83		6.102					
63 1,2-Dichloropropane	63		6.193					
65 Dibromomethane	93		6.327					
66 1,4-Dioxane	88		6.346					
67 Dichlorobromomethane	83		6.480					
70 2-Chloroethyl vinyl ether	63		6.754					
72 cis-1,3-Dichloropropene	75		6.900					
73 4-Methyl-2-pentanone (MIBK)	43		7.035					
74 Toluene	92		7.199					
76 trans-1,3-Dichloropropene	75		7.461					
78 Ethyl methacrylate	69		7.516					
79 1,1,2-Trichloroethane	83		7.650					
80 Tetrachloroethene	166		7.742					
81 1,3-Dichloropropane	76		7.815					
82 2-Hexanone	43		7.876					
83 Chlorodibromomethane	129		8.053					
84 Ethylene Dibromide	107		8.162					
86 Chlorobenzene	112		8.650					
88 1,1,1,2-Tetrachloroethane	131		8.742					
89 Ethylbenzene	91		8.742					
90 m-Xylene & p-Xylene	106		8.863					
91 o-Xylene	106		9.290					
92 Styrene	104		9.321					
93 Bromoform	173		9.552					
95 Isopropylbenzene	105		9.674					
97 Bromobenzene	156		10.010					
98 1,1,2,2-Tetrachloroethane	83		10.040					
99 1,2,3-Trichloropropane	110		10.077					
100 trans-1,4-Dichloro-2-butene	53		10.089					
101 N-Propylbenzene	91		10.095					
102 2-Chlorotoluene	126		10.199					
104 1,3,5-Trimethylbenzene	105		10.272					
105 4-Chlorotoluene	126		10.302					
106 tert-Butylbenzene	134		10.589					
107 1,2,4-Trimethylbenzene	105		10.638					

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/L	Flags
109 sec-Butylbenzene	105		10.796					
110 1,3-Dichlorobenzene	146		10.924					
111 4-Isopropyltoluene	119		10.930					
113 1,4-Dichlorobenzene	146		11.009					
115 n-Butylbenzene	91		11.314					
116 1,2-Dichlorobenzene	146		11.363					
117 1,2-Dibromo-3-Chloropropane	75		12.076					
119 1,2,4-Trichlorobenzene	180		12.765					
120 Hexachlorobutadiene	225		12.881					
121 Naphthalene	128		12.979					
122 1,2,3-Trichlorobenzene	180		13.180					
S 123 Total BTEX	1		30.000					
S 124 Xylenes, Total	1		30.000					
S 125 1,2-Dichloroethene, Total	1		30.000					
S 126 1,3-Dichloropropene, Total	1		30.000					

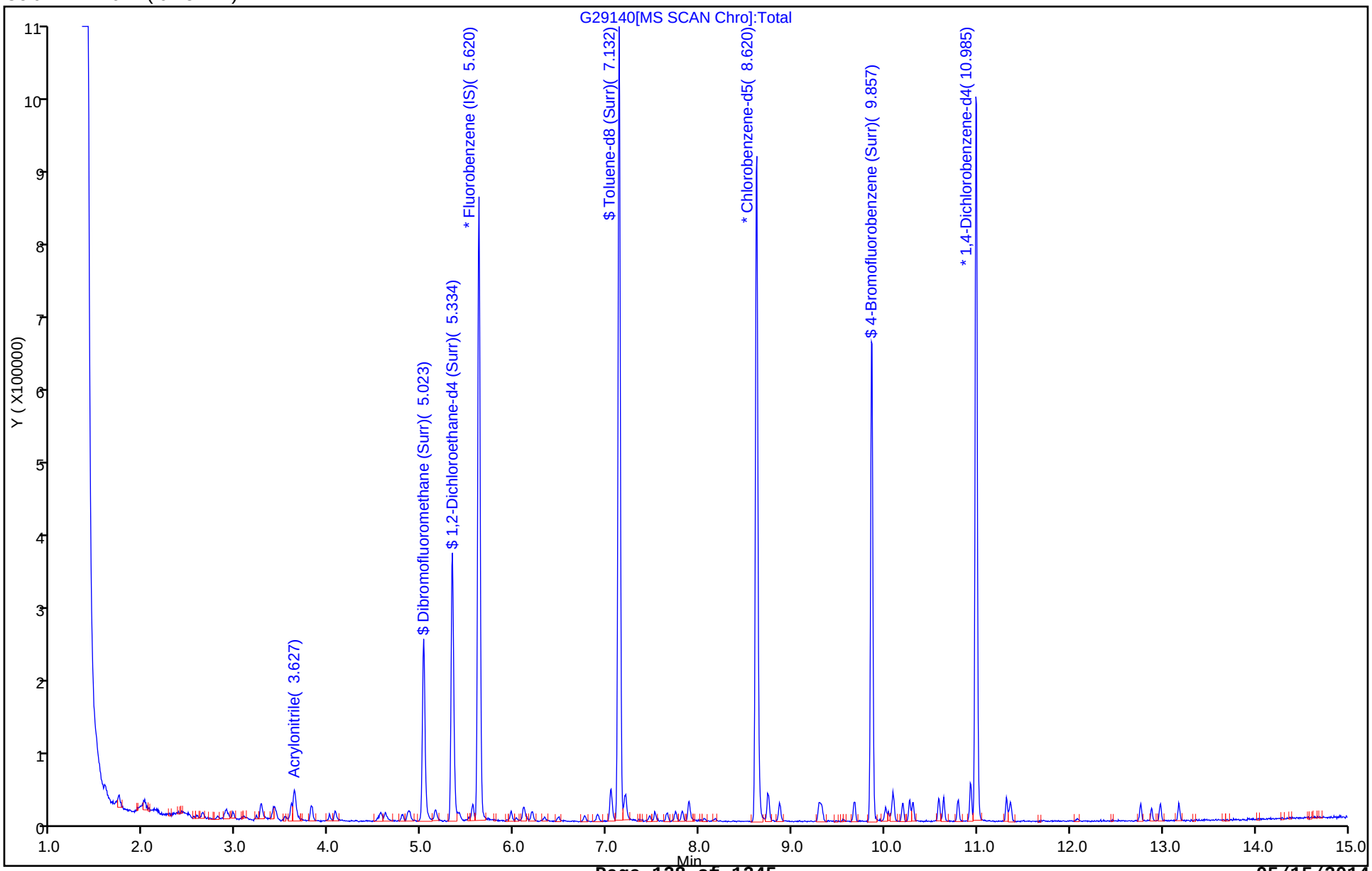
Report Date: 11-Apr-2014 08:54:26 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973G\20140410-30960.b\G29140.D

Injection Date:	10-Apr-2014 17:45:30	Instrument ID:	HP5973G	Operator ID:	RAL
Lims ID:	IC 0.5			Worklist Smp#:	4
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	G-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973G\20140410-30960.b\G29141.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 10-Apr-2014 18:08:30 ALS Bottle#: 3 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC
Misc. Info.: 480-0030960-005 =480-0030960-005
Operator ID: RAL Instrument ID: HP5973G
Sublist: chrom-G-8260*sub20

Method: \\Bufchrom\ChromData\HP5973G\20140410-30960.b\G-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 11-Apr-2014 09:17:20 Calib Date: 10-Apr-2014 23:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5973G\20140410-30960.b\G29156.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK040

First Level Reviewer: larsonr Date: 11-Apr-2014 09:17:20

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/L	Flags
* 147 Fluorobenzene (IS)	96	5.620	5.620	0.0	98	700574	25.0	
* 2 Chlorobenzene-d5	82	8.620	8.620	0.0	86	295280	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.991	10.991	0.0	97	248916	25.0	
$ 148 Dibromofluoromethane (Surr)	113	5.023	5.023	0.0	79	145995	24.4	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	5.334	5.334	0.0	0	116466	25.6	
$ 5 Toluene-d8 (Surr)	98	7.132	7.132	0.0	94	683315	24.9	
$ 6 4-Bromofluorobenzene (Surr)	174	9.863	9.863	0.0	82	160758	23.9	
10 Dichlorodifluoromethane	85	1.444	1.444	0.0	68	11078	1.06	
12 Chloromethane	50	1.591	1.591	0.0	87	20571	1.10	
13 Vinyl chloride	62	1.706	1.712	-0.006	68	12992	0.9781	
144 Butadiene	54	1.737	1.731	0.006	89	14773	0.9291	
14 Bromomethane	94	2.011	2.011	0.0	47	4529	1.02	
15 Chloroethane	64	2.145	2.139	0.006	65	7024	0.99	
16 Dichlorofluoromethane	67	2.359	2.365	-0.006	49	5104	1.29	
17 Trichlorofluoromethane	101	2.383	2.389	-0.006	54	6511	0.6341	
18 Ethyl ether	59	2.639	2.633	0.006	90	10403	1.08	
19 Acrolein	56	2.804	2.798	0.006	83	10092	4.78	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.889	2.889	0.0	28	8628	1.00	
20 1,1-Dichloroethene	96	2.895	2.895	0.0	80	9432	0.9798	
22 Acetone	43	2.962	2.956	0.006	91	24320	5.56	
23 Iodomethane	142	3.066	3.054	0.012	83	11045	0.8934	
24 Carbon disulfide	76	3.090	3.102	-0.012	77	19891	0.8465	
26 3-Chloro-1-propene	41	3.218	3.218	0.0	49	18090	0.9369	
28 Methyl acetate	43	3.267	3.261	0.006	97	61434	5.07	
29 Methylene Chloride	84	3.413	3.407	0.006	79	14692	1.37	
30 2-Methyl-2-propanol	59	3.523	3.517	0.006	89	11032	7.67	M
31 Methyl tert-butyl ether	73	3.596	3.590	0.006	83	24340	0.9879	
32 trans-1,2-Dichloroethene	96	3.602	3.596	0.006	53	7448	0.9356	
33 Acrylonitrile	53	3.633	3.621	0.012	96	61210	9.97	
34 Hexane	57	3.810	3.816	-0.006	85	18521	1.06	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/L	Flags
36 1,1-Dichloroethane	63	4.011	4.011	0.0	80	15022	0.9583	
38 Vinyl acetate	43	4.066	4.060	0.006	96	42239	1.75	
42 2,2-Dichloropropane	77	4.541	4.535	0.006	52	4498	1.01	
43 cis-1,2-Dichloroethene	96	4.566	4.559	0.007	61	8368	1.05	
44 2-Butanone (MEK)	43	4.602	4.590	0.012	96	35235	4.71	
48 Chlorobromomethane	128	4.797	4.791	0.006	76	4017	1.06	
49 Tetrahydrofuran	42	4.846	4.828	0.018	85	12283	2.22	
50 Chloroform	85	4.870	4.870	0.0	74	9106	1.10	
51 1,1,1-Trichloroethane	97	4.998	4.998	0.0	69	6737	0.8256	
52 Cyclohexane	56	5.029	5.029	0.0	28	23188	0.9626	
53 Carbon tetrachloride	117	5.145	5.145	0.0	48	6005	0.8381	
54 1,1-Dichloropropene	75	5.157	5.157	0.0	80	8841	0.9115	
55 Isobutyl alcohol	43	5.352	5.340	0.012	40	10576	34.4	
56 Benzene	78	5.352	5.352	0.0	81	30629	1.02	
57 1,2-Dichloroethane	62	5.407	5.401	0.006	85	12934	1.03	
59 n-Heptane	43	5.553	5.553	0.0	87	21983	1.08	
61 Trichloroethene	95	5.968	5.962	0.006	80	7941	1.05	
62 Methylcyclohexane	83	6.108	6.102	0.006	86	13701	0.9593	
63 1,2-Dichloropropane	63	6.193	6.193	0.0	76	9443	1.02	
65 Dibromomethane	93	6.334	6.327	0.007	82	4630	1.06	
66 1,4-Dioxane	88	6.352	6.346	0.006	54	1807	20.0	M
67 Dichlorobromomethane	83	6.480	6.480	0.0	65	7006	0.8365	
70 2-Chloroethyl vinyl ether	63	6.754	6.754	0.0	64	6099	0.9134	M
72 cis-1,3-Dichloropropene	75	6.894	6.900	-0.006	65	9214	0.8642	
73 4-Methyl-2-pentanone (MIBK)	43	7.041	7.035	0.006	96	70787	4.80	
74 Toluene	92	7.205	7.199	0.006	92	20720	1.03	
76 trans-1,3-Dichloropropene	75	7.461	7.461	0.0	63	6563	0.7273	
78 Ethyl methacrylate	69	7.516	7.516	0.0	80	8893	0.8338	
79 1,1,2-Trichloroethane	83	7.650	7.650	0.0	79	6028	1.06	
80 Tetrachloroethene	166	7.754	7.742	0.012	86	6944	1.00	
81 1,3-Dichloropropane	76	7.821	7.815	0.006	84	13135	1.03	
82 2-Hexanone	43	7.882	7.876	0.006	97	46542	4.47	
83 Chlorodibromomethane	129	8.047	8.053	-0.006	46	3261	1.38	M
84 Ethylene Dibromide	107	8.162	8.162	0.0	59	6481	0.9334	
86 Chlorobenzene	112	8.650	8.650	0.0	81	21335	0.9878	
88 1,1,1,2-Tetrachloroethane	131	8.736	8.742	-0.006	24	4152	0.7740	
89 Ethylbenzene	91	8.742	8.742	0.0	93	36540	0.99	
90 m-Xylene & p-Xylene	106	8.864	8.863	0.001	0	13638	0.9387	
91 o-Xylene	106	9.290	9.290	0.0	92	13315	0.9639	
92 Styrene	104	9.321	9.321	0.0	92	21567	0.8918	
93 Bromoform	173	9.565	9.552	0.013	64	1853	4.15	
95 Isopropylbenzene	105	9.674	9.674	0.0	92	31946	0.8910	
97 Bromobenzene	156	10.010	10.010	0.0	88	7933	0.9832	
98 1,1,2,2-Tetrachloroethane	83	10.040	10.040	0.0	71	8666	0.9369	
99 1,2,3-Trichloropropane	110	10.083	10.077	0.006	58	3140	0.9659	
100 trans-1,4-Dichloro-2-butene	53	10.101	10.089	0.012	12	3306	0.8374	
101 N-Propylbenzene	91	10.095	10.095	0.0	93	41392	0.9799	
102 2-Chlorotoluene	126	10.199	10.199	0.0	92	8778	1.03	
104 1,3,5-Trimethylbenzene	105	10.272	10.272	0.0	90	28669	0.9300	
105 4-Chlorotoluene	126	10.302	10.302	0.0	91	8919	1.01	
106 tert-Butylbenzene	134	10.583	10.589	-0.006	89	6476	0.9686	
107 1,2,4-Trimethylbenzene	105	10.638	10.638	0.0	95	28715	0.9027	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/L	Flags
109 sec-Butylbenzene	105	10.796	10.796	0.0	87	36020	0.9157	
110 1,3-Dichlorobenzene	146	10.924	10.924	0.0	78	16749	1.03	
111 4-Isopropyltoluene	119	10.930	10.930	0.0	95	32568	0.9580	
113 1,4-Dichlorobenzene	146	11.009	11.009	0.0	66	18079	1.07	
115 n-Butylbenzene	91	11.314	11.314	0.0	93	28396	0.9276	
116 1,2-Dichlorobenzene	146	11.363	11.363	0.0	86	15815	0.99	
117 1,2-Dibromo-3-Chloropropane	75	12.070	12.076	-0.006	4	1326	1.38	
119 1,2,4-Trichlorobenzene	180	12.765	12.765	0.0	79	9745	0.9094	
120 Hexachlorobutadiene	225	12.881	12.881	0.0	76	4726	1.06	
121 Naphthalene	128	12.979	12.979	0.0	92	30309	0.8062	
122 1,2,3-Trichlorobenzene	180	13.180	13.180	0.0	88	10276	0.9705	
S 123 Total BTEX	1				0		4.94	
S 124 Xylenes, Total	1				0		1.90	
S 125 1,2-Dichloroethene, Total	1				0		1.99	
S 126 1,3-Dichloropropene, Total	1				0		1.59	

QC Flag Legend

Review Flags
M - Manually Integrated

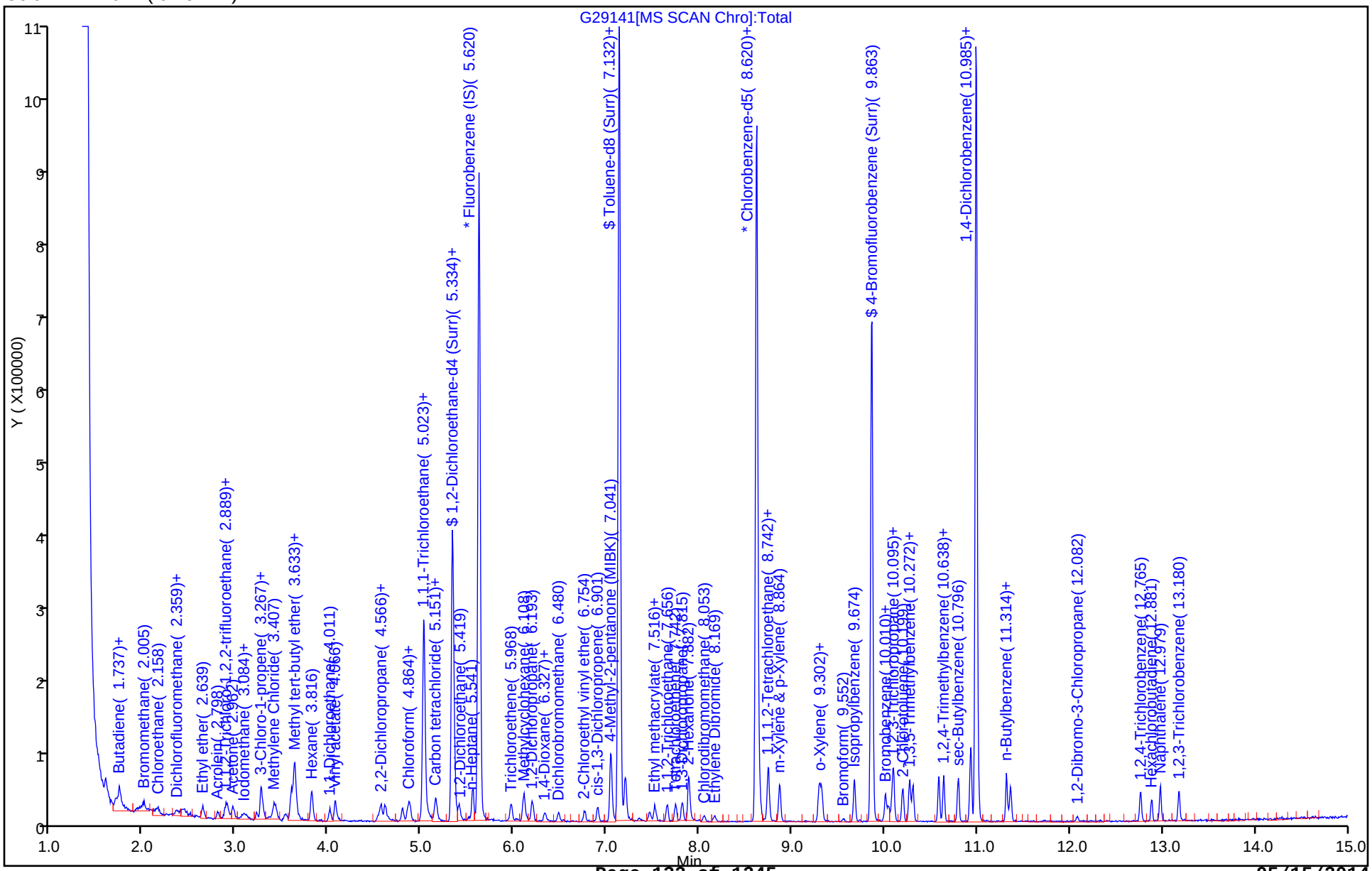
Report Date: 11-Apr-2014 09:17:21 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973G\20140410-30960.b\G29141.D

Injection Date:	10-Apr-2014 18:08:30	Instrument ID:	HP5973G	Operator ID:	RAL
Lims ID:	IC			Worklist Smp#:	5
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	G-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



Manual Integration/User Assign Peak Report

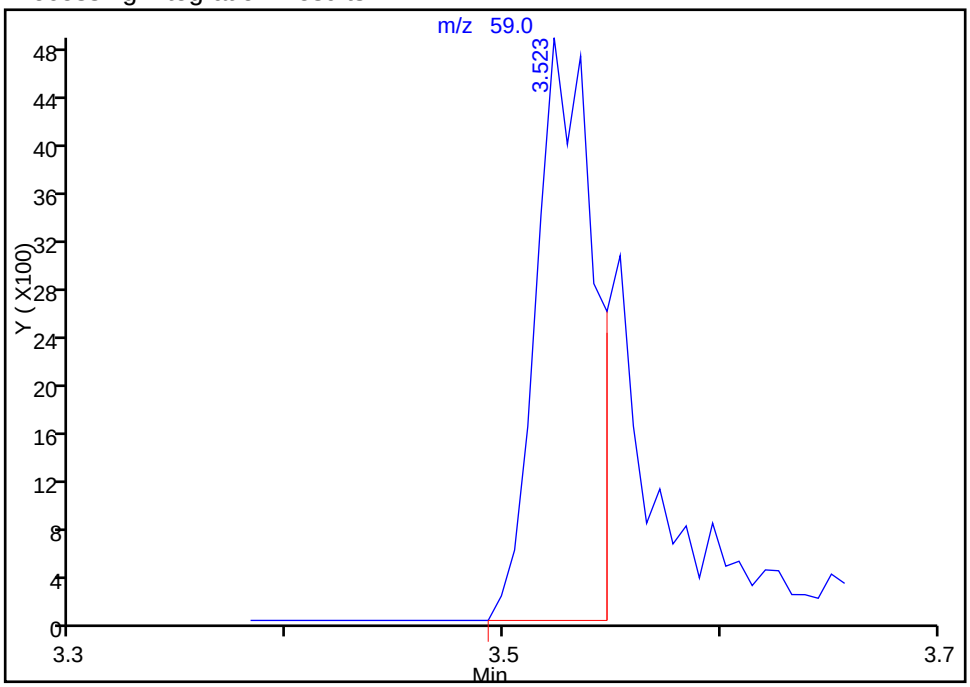
TestAmerica Buffalo

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Injection Date: 10-Apr-2014 18:08:30 Instrument ID: HP5973G
Lims ID: IC
Client ID:
Operator ID: RAL ALS Bottle#: 3 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: G-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

30 2-Methyl-2-propanol, CAS: 75-65-0

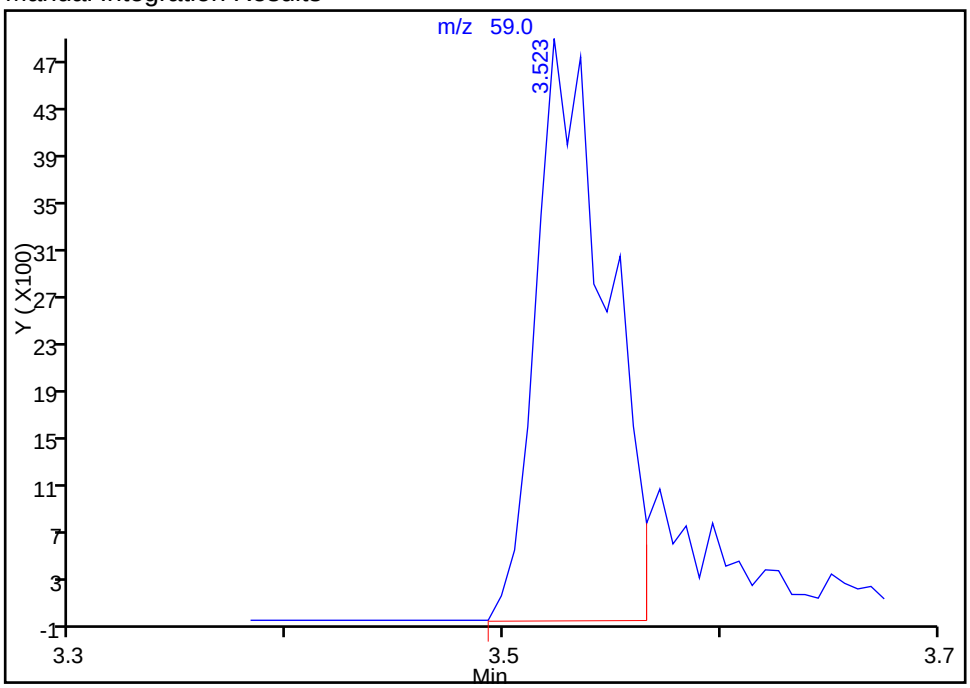
Processing Integration Results

RT: 3.52
Response: 9013
Amount: 12.609909



Manual Integration Results

RT: 3.52
Response: 11032
Amount: 7.666972



Reviewer: larsonr, 11-Apr-2014 09:17:20
Audit Action: Manually Integrated
Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

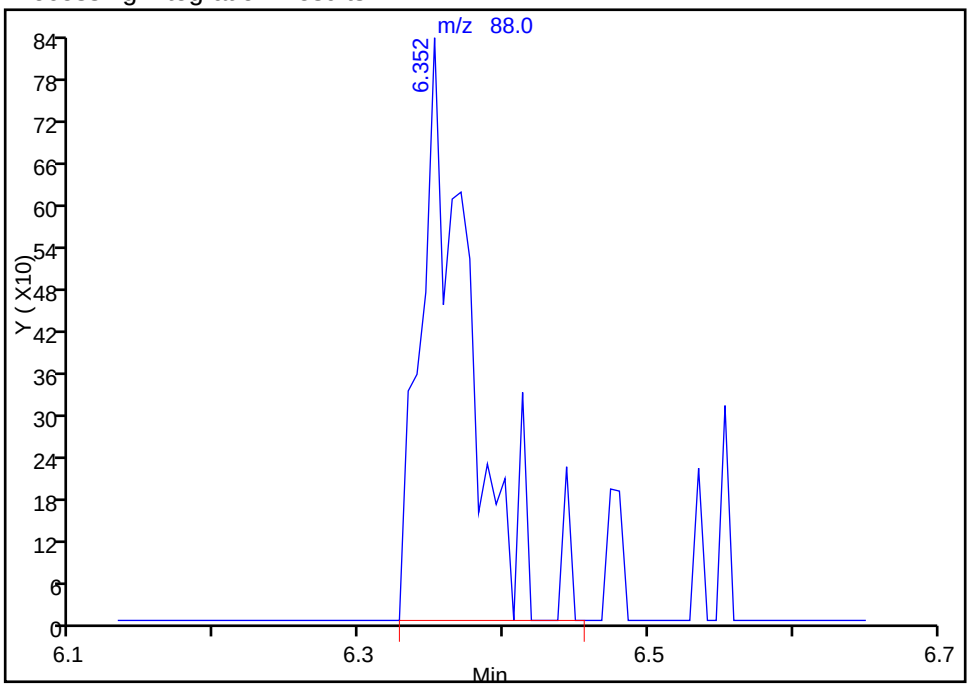
TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973G\20140410-30960.b\G29141.D
Injection Date: 10-Apr-2014 18:08:30 Instrument ID: HP5973G
Lims ID: IC
Client ID:
Operator ID: RAL ALS Bottle#: 3 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: G-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

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

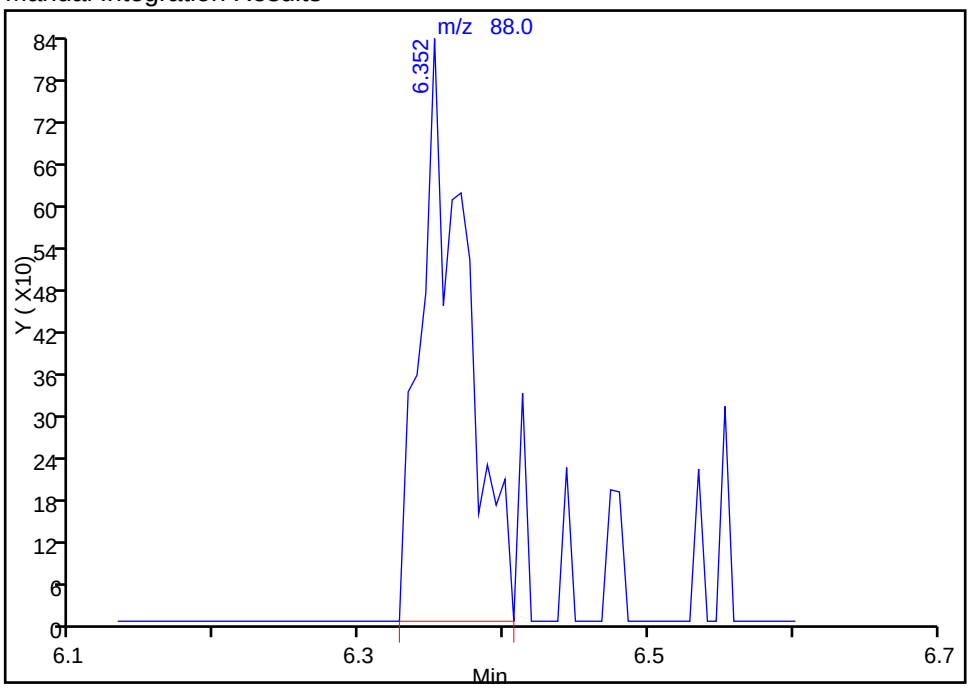
Processing Integration Results

RT: 6.35
Response: 2008
Amount: 21.855471



Manual Integration Results

RT: 6.35
Response: 1807
Amount: 20.032969



Reviewer: larsonr, 11-Apr-2014 09:17:20
Audit Action: Manually Integrated
Audit Reason: Peak Tail

Manual Integration/User Assign Peak Report

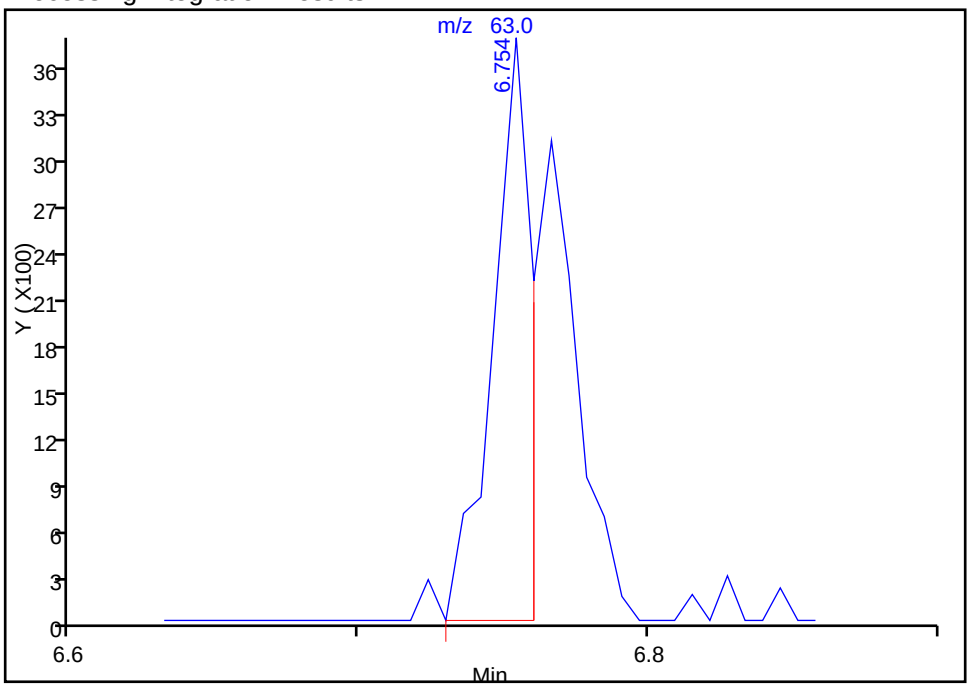
TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973G\20140410-30960.b\G29141.D
Injection Date: 10-Apr-2014 18:08:30 Instrument ID: HP5973G
Lims ID: IC
Client ID:
Operator ID: RAL ALS Bottle#: 3 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: G-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

70 2-Chloroethyl vinyl ether, CAS: 110-75-8

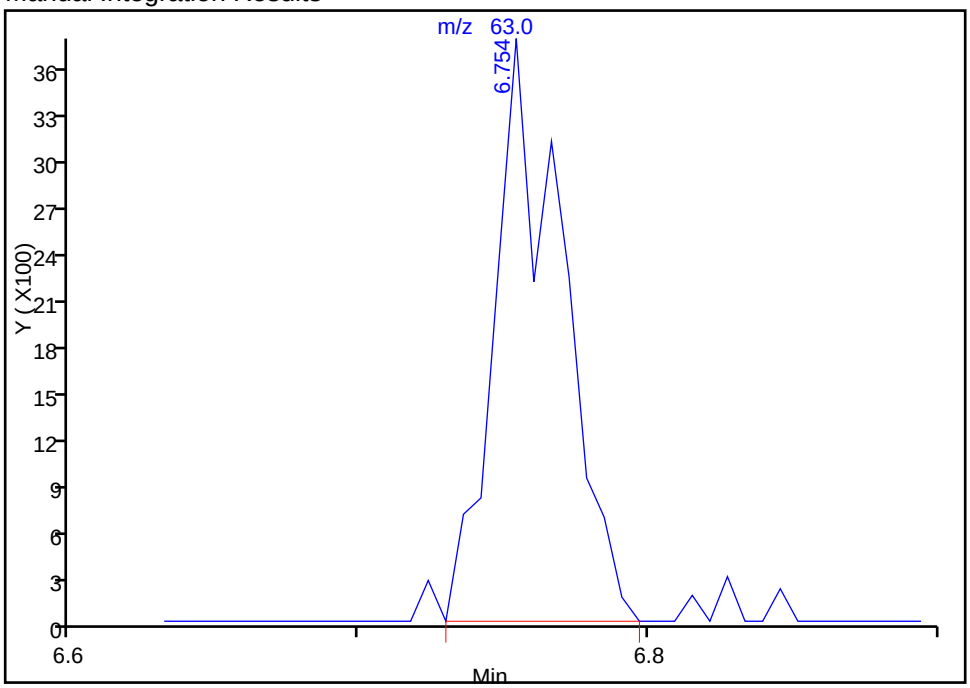
Processing Integration Results

RT: 6.75
Response: 3534
Amount: 1.092307



Manual Integration Results

RT: 6.75
Response: 6099
Amount: 0.913406



Reviewer: larsonr, 11-Apr-2014 09:17:20
Audit Action: Manually Integrated
Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

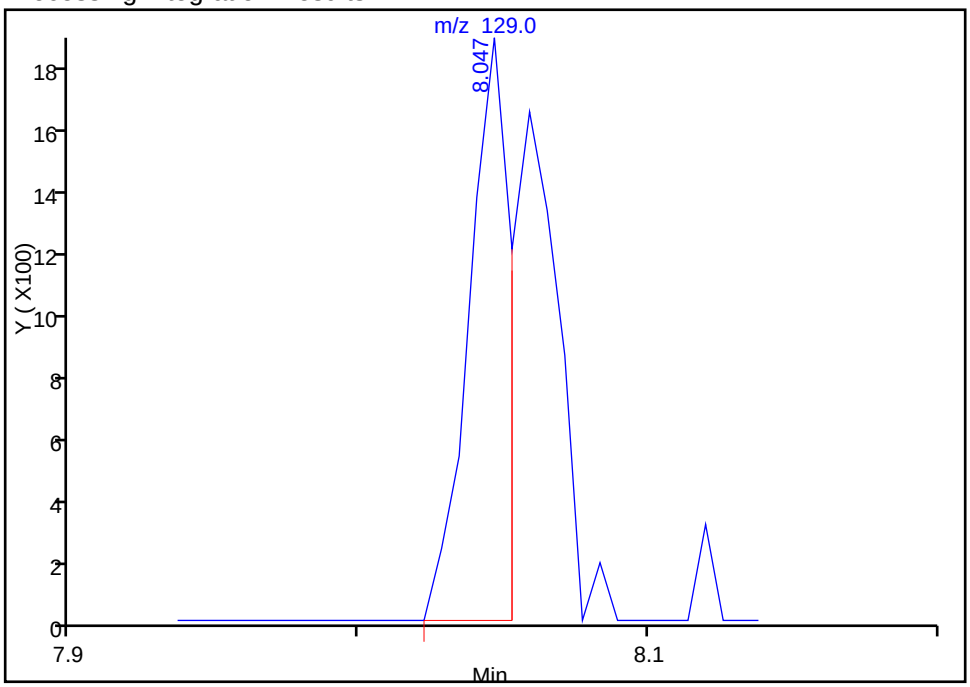
TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973G\20140410-30960.b\G29141.D
Injection Date: 10-Apr-2014 18:08:30 Instrument ID: HP5973G
Lims ID: IC
Client ID:
Operator ID: RAL ALS Bottle#: 3 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: G-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

83 Chlorodibromomethane, CAS: 124-48-1

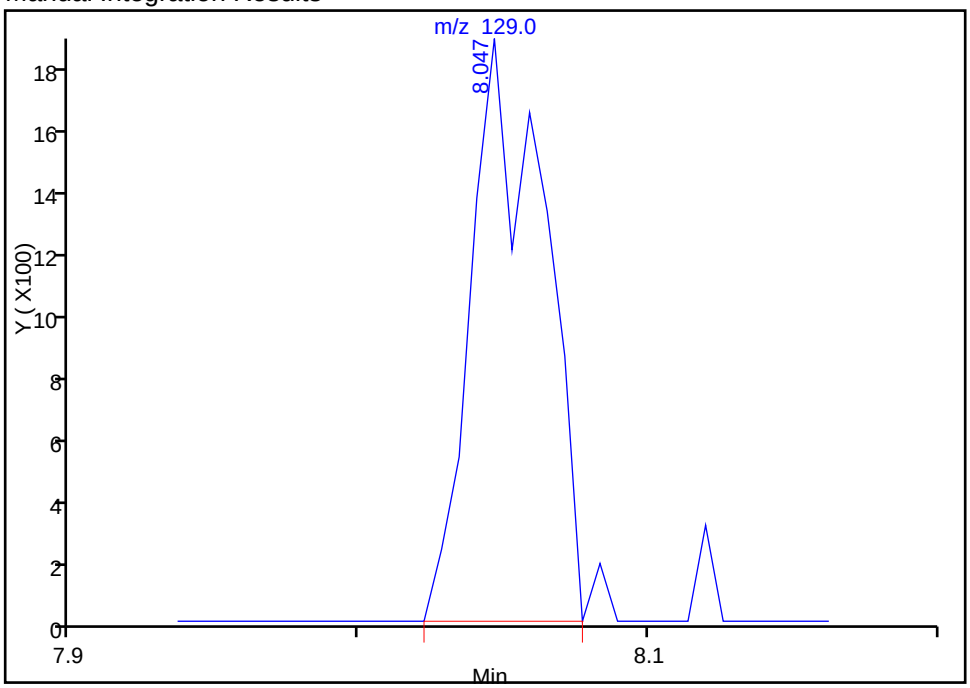
Processing Integration Results

RT: 8.05
Response: 1881
Amount: 1.337830



Manual Integration Results

RT: 8.05
Response: 3261
Amount: 1.379991



Reviewer: larsonr, 11-Apr-2014 09:17:20
Audit Action: Manually Integrated
Audit Reason: Split Peak

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973G\20140410-30960.b\G29142.D
Lims ID: IC 2
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 10-Apr-2014 18:31:30 ALS Bottle#: 4 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 2
Misc. Info.: 480-0030960-006 =480-0030960-006
Operator ID: RAL Instrument ID: HP5973G
Sublist: chrom-G-8260*sub20

Method: \\Bufchrom\ChromData\HP5973G\20140410-30960.b\G-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 11-Apr-2014 09:19:33 Calib Date: 10-Apr-2014 23:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5973G\20140410-30960.b\G29156.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK040

First Level Reviewer: larsonr Date: 11-Apr-2014 09:19:33

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/L	Flags
* 147 Fluorobenzene (IS)	96	5.620	5.620	0.0	98	669964	25.0	
* 2 Chlorobenzene-d5	82	8.620	8.620	0.0	88	279169	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.991	10.991	0.0	95	234874	25.0	
$ 148 Dibromofluoromethane (Surr)	113	5.023	5.023	0.0	83	146200	25.6	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	5.334	5.334	0.0	0	110840	25.5	
$ 5 Toluene-d8 (Surr)	98	7.132	7.132	0.0	94	665708	25.6	
$ 6 4-Bromofluorobenzene (Surr)	174	9.857	9.863	-0.006	81	161984	25.4	
10 Dichlorodifluoromethane	85	1.438	1.444	-0.006	96	47670	4.77	
12 Chloromethane	50	1.590	1.591	-0.001	99	92285	5.15	
13 Vinyl chloride	62	1.700	1.712	-0.012	78	65933	5.20	M
144 Butadiene	54	1.731	1.731	0.0	89	79367	5.22	
14 Bromomethane	94	2.011	2.011	0.0	87	22263	5.23	
15 Chloroethane	64	2.139	2.139	0.0	91	36591	5.40	
16 Dichlorofluoromethane	67	2.353	2.365	-0.012	93	39285	4.44	
17 Trichlorofluoromethane	101	2.371	2.389	-0.018	80	46962	4.78	
18 Ethyl ether	59	2.633	2.633	0.0	97	45380	4.92	
19 Acrolein	56	2.798	2.798	0.0	90	48250	23.9	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.877	2.889	-0.012	36	43237	5.25	
20 1,1-Dichloroethene	96	2.883	2.895	-0.012	79	45384	4.93	
22 Acetone	43	2.962	2.956	0.006	98	101265	24.2	
23 Iodomethane	142	3.054	3.054	0.0	98	62407	5.28	
24 Carbon disulfide	76	3.102	3.102	0.0	99	105717	4.70	
26 3-Chloro-1-propene	41	3.218	3.218	0.0	86	90376	4.89	
28 Methyl acetate	43	3.261	3.261	0.0	98	295061	25.5	
29 Methylene Chloride	84	3.407	3.407	0.0	81	52517	5.12	
30 2-Methyl-2-propanol	59	3.523	3.517	0.006	96	64665	47.0	
31 Methyl tert-butyl ether	73	3.596	3.590	0.006	90	117824	5.00	
32 trans-1,2-Dichloroethene	96	3.596	3.596	0.0	88	38271	5.03	
33 Acrylonitrile	53	3.627	3.621	0.006	99	298687	50.9	
34 Hexane	57	3.816	3.816	0.0	96	81596	4.89	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/L	Flags
36 1,1-Dichloroethane	63	4.011	4.011	0.0	84	75724	5.05	
38 Vinyl acetate	43	4.066	4.060	0.006	96	212851	9.22	
42 2,2-Dichloropropane	77	4.535	4.535	0.0	78	20063	4.70	
43 cis-1,2-Dichloroethene	96	4.559	4.559	0.0	69	36456	4.79	
44 2-Butanone (MEK)	43	4.596	4.590	0.006	96	178641	24.9	
48 Chlorobromomethane	128	4.797	4.791	0.006	83	17729	4.90	
49 Tetrahydrofuran	42	4.840	4.828	0.012	93	53527	10.1	
50 Chloroform	85	4.870	4.870	0.0	83	38165	4.84	
51 1,1,1-Trichloroethane	97	4.998	4.998	0.0	87	37466	4.80	
52 Cyclohexane	56	5.023	5.029	-0.006	94	111421	4.84	
53 Carbon tetrachloride	117	5.145	5.145	0.0	54	30942	4.52	
54 1,1-Dichloropropene	75	5.151	5.157	-0.006	90	46506	5.01	
55 Isobutyl alcohol	43	5.346	5.340	0.006	68	71843	103.2	
56 Benzene	78	5.352	5.352	0.0	95	143791	4.99	
57 1,2-Dichloroethane	62	5.407	5.401	0.006	91	59099	4.90	
59 n-Heptane	43	5.553	5.553	0.0	94	92889	4.78	
61 Trichloroethene	95	5.968	5.962	0.006	92	34836	4.80	
62 Methylcyclohexane	83	6.108	6.102	0.006	95	65552	4.80	
63 1,2-Dichloropropane	63	6.193	6.193	0.0	90	42830	4.83	
65 Dibromomethane	93	6.327	6.327	0.0	83	20436	4.90	
66 1,4-Dioxane	88	6.352	6.346	0.006	74	8051	94.4	
67 Dichlorobromomethane	83	6.480	6.480	0.0	89	36757	4.59	
70 2-Chloroethyl vinyl ether	63	6.760	6.754	0.006	86	29887	4.68	
72 cis-1,3-Dichloropropene	75	6.894	6.900	-0.006	84	45385	4.45	
73 4-Methyl-2-pentanone (MIBK)	43	7.041	7.035	0.006	98	355244	25.5	
74 Toluene	92	7.199	7.199	0.0	97	96285	5.08	
76 trans-1,3-Dichloropropene	75	7.461	7.461	0.0	95	37225	4.36	
78 Ethyl methacrylate	69	7.522	7.516	0.006	90	47581	4.72	
79 1,1,2-Trichloroethane	83	7.650	7.650	0.0	89	27593	5.12	
80 Tetrachloroethene	166	7.742	7.742	0.0	87	32599	4.99	
81 1,3-Dichloropropane	76	7.815	7.815	0.0	97	57238	4.73	
82 2-Hexanone	43	7.882	7.876	0.006	99	248356	25.3	
83 Chlorodibromomethane	129	8.053	8.053	0.0	78	20989	4.16	
84 Ethylene Dibromide	107	8.162	8.162	0.0	94	32006	4.88	
86 Chlorobenzene	112	8.650	8.650	0.0	91	103568	5.07	
88 1,1,1,2-Tetrachloroethane	131	8.742	8.742	0.0	35	22801	4.50	
89 Ethylbenzene	91	8.742	8.742	0.0	98	173298	4.97	
90 m-Xylene & p-Xylene	106	8.863	8.863	0.0	0	69307	5.05	
91 o-Xylene	106	9.290	9.290	0.0	99	61569	4.71	
92 Styrene	104	9.321	9.321	0.0	94	112083	4.90	
93 Bromoform	173	9.558	9.552	0.006	79	9174	6.13	
95 Isopropylbenzene	105	9.674	9.674	0.0	95	174590	5.16	
97 Bromobenzene	156	10.010	10.010	0.0	97	39053	5.13	
98 1,1,2,2-Tetrachloroethane	83	10.040	10.040	0.0	82	42940	4.92	
99 1,2,3-Trichloropropane	110	10.077	10.077	0.0	71	15708	5.12	
100 trans-1,4-Dichloro-2-butene	53	10.095	10.089	0.006	49	16777	4.50	
101 N-Propylbenzene	91	10.095	10.095	0.0	98	199220	5.00	
102 2-Chlorotoluene	126	10.199	10.199	0.0	96	40504	5.05	
104 1,3,5-Trimethylbenzene	105	10.272	10.272	0.0	92	143536	4.93	
105 4-Chlorotoluene	126	10.302	10.302	0.0	90	42610	5.11	
106 tert-Butylbenzene	134	10.589	10.589	0.0	93	31885	5.05	
107 1,2,4-Trimethylbenzene	105	10.637	10.638	-0.001	97	153996	5.13	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/L	Flags
109 sec-Butylbenzene	105	10.796	10.796	0.0	94	189270	5.10	
110 1,3-Dichlorobenzene	146	10.924	10.924	0.0	95	76376	4.97	
111 4-Isopropyltoluene	119	10.930	10.930	0.0	97	159624	4.98	
113 1,4-Dichlorobenzene	146	11.009	11.009	0.0	91	80840	5.06	
115 n-Butylbenzene	91	11.314	11.314	0.0	97	143766	4.98	
116 1,2-Dichlorobenzene	146	11.363	11.363	0.0	94	75253	5.00	
117 1,2-Dibromo-3-Chloropropane	75	12.076	12.076	0.0	51	7493	4.40	
119 1,2,4-Trichlorobenzene	180	12.765	12.765	0.0	93	50140	4.96	
120 Hexachlorobutadiene	225	12.887	12.881	0.006	88	20258	4.81	
121 Naphthalene	128	12.979	12.979	-0.001	96	175793	4.96	
122 1,2,3-Trichlorobenzene	180	13.180	13.180	0.0	92	50857	5.09	
S 123 Total BTEX	1				0		24.8	
S 124 Xylenes, Total	1				0		9.76	
S 125 1,2-Dichloroethene, Total	1				0		9.82	
S 126 1,3-Dichloropropene, Total	1				0		8.81	

QC Flag Legend

Review Flags
M - Manually Integrated

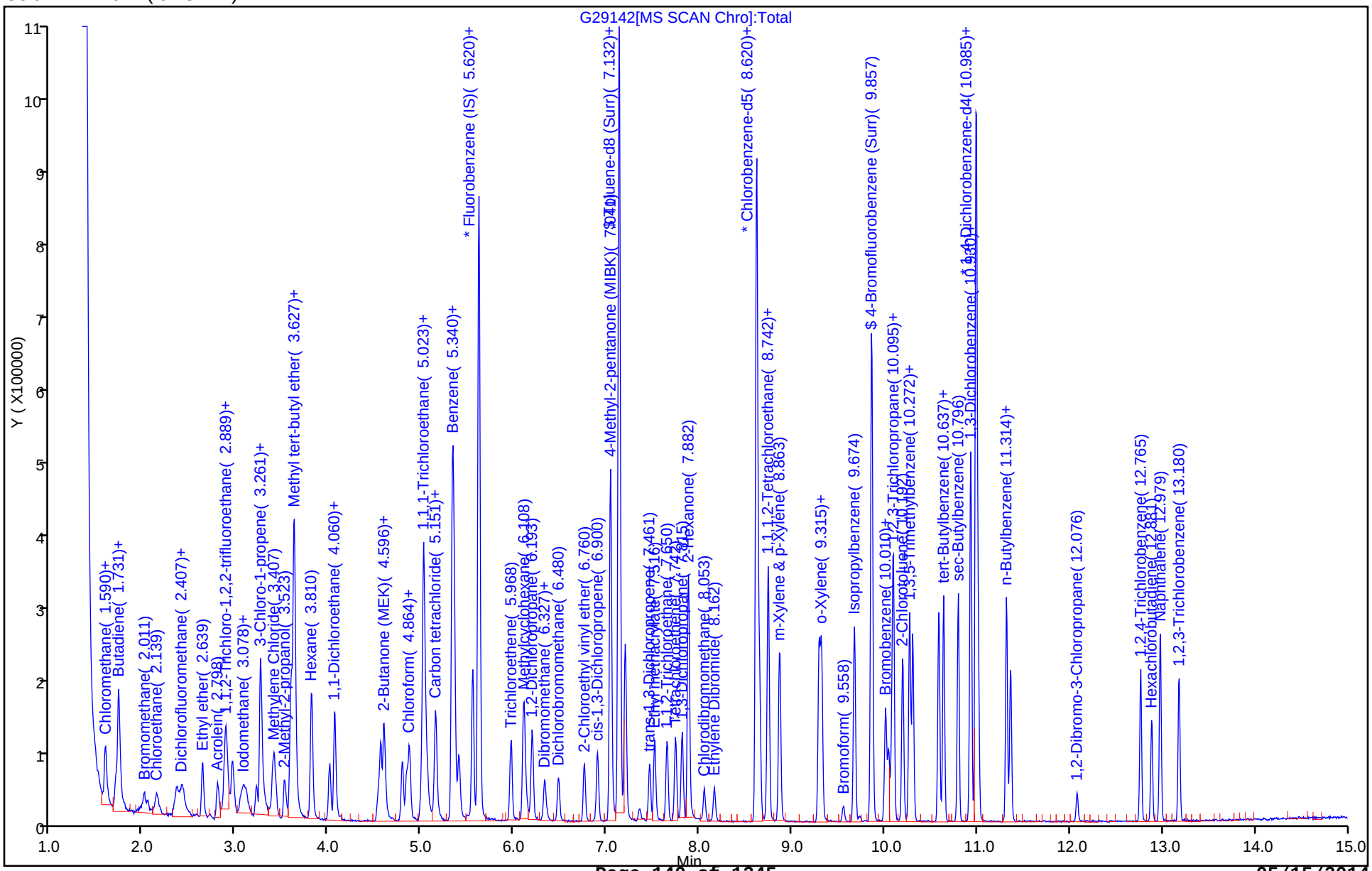
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TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973G\20140410-30960.b\G29142.D

Injection Date:	10-Apr-2014 18:31:30	Instrument ID:	HP5973G	Operator ID:	RAL
Lims ID:	IC 2			Worklist Smp#:	6
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	G-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



Manual Integration/User Assign Peak Report

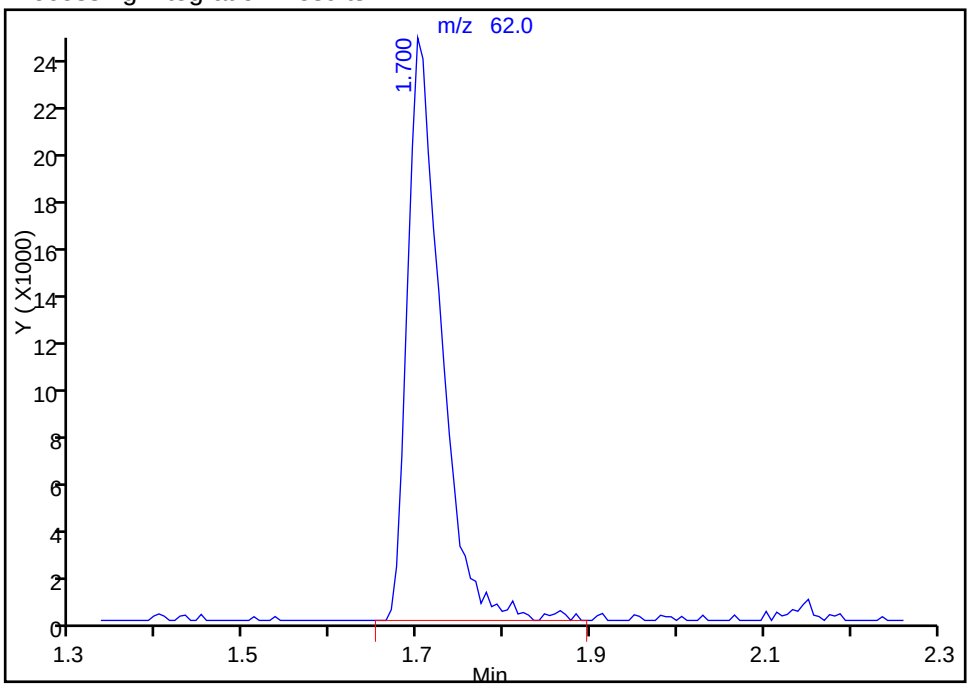
TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973G\20140410-30960.b\G29142.D
Injection Date: 10-Apr-2014 18:31:30 Instrument ID: HP5973G
Lims ID: IC 2
Client ID:
Operator ID: RAL ALS Bottle#: 4 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: G-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

13 Vinyl chloride, CAS: 75-01-4

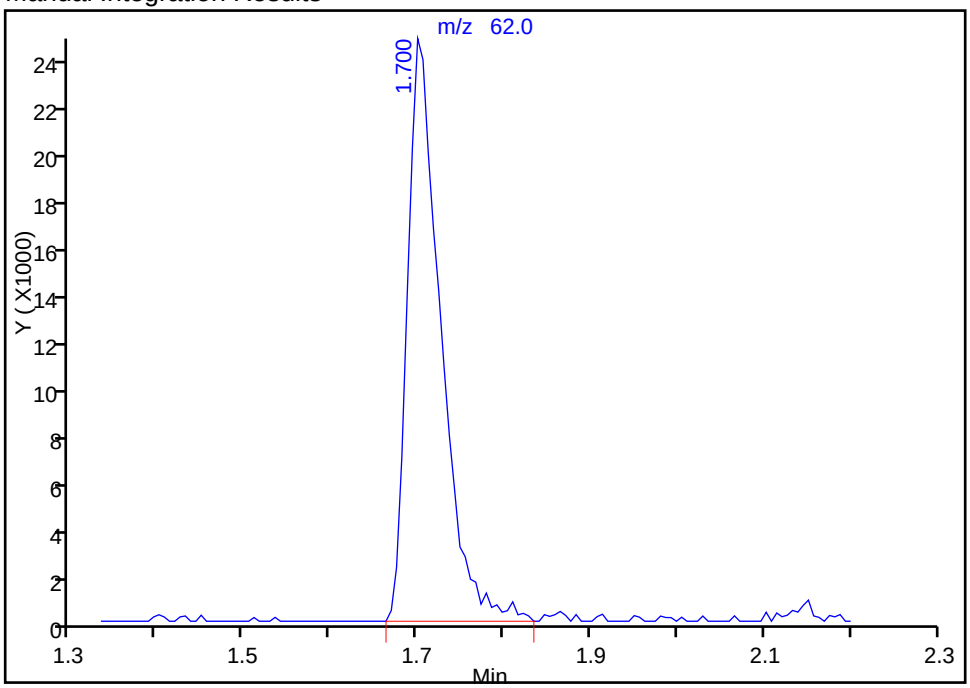
Processing Integration Results

RT: 1.70
Response: 66552
Amount: 5.239467



Manual Integration Results

RT: 1.70
Response: 65933
Amount: 5.199181



Reviewer: larsonr, 11-Apr-2014 09:18:04
Audit Action: Manually Integrated
Audit Reason: Peak Tail

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973G\20140410-30960.b\G29143.D
Lims ID: IC 3
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 10-Apr-2014 18:54:30 ALS Bottle#: 5 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 3
Misc. Info.: 480-0030960-007 =480-0030960-007
Operator ID: RAL Instrument ID: HP5973G
Sublist: chrom-G-8260*sub20

Method: \\Bufchrom\ChromData\HP5973G\20140410-30960.b\G-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 11-Apr-2014 09:20:34 Calib Date: 10-Apr-2014 23:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5973G\20140410-30960.b\G29156.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK040

First Level Reviewer: larsonr Date: 11-Apr-2014 09:20:34

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/L	Flags
* 147 Fluorobenzene (IS)	96	5.620	5.620	0.0	98	697667	25.0	
* 2 Chlorobenzene-d5	82	8.614	8.614	0.0	88	288458	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.991	10.991	0.0	92	242940	25.0	
$ 148 Dibromofluoromethane (Surr)	113	5.023	5.023	0.0	81	146870	24.6	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	5.334	5.334	0.0	0	112868	24.9	
$ 5 Toluene-d8 (Surr)	98	7.132	7.132	0.0	94	675654	25.2	
$ 6 4-Bromofluorobenzene (Surr)	174	9.857	9.857	0.0	81	166496	25.3	
10 Dichlorodifluoromethane	85	1.444	1.444	0.0	86	104652	10.0	
12 Chloromethane	50	1.591	1.591	0.0	88	185270	9.94	
13 Vinyl chloride	62	1.706	1.706	0.0	82	129630	9.82	
144 Butadiene	54	1.731	1.731	0.0	90	159714	10.1	
14 Bromomethane	94	2.005	2.005	0.0	91	44205	9.96	
15 Chloroethane	64	2.151	2.151	0.0	89	69664	9.86	
16 Dichlorofluoromethane	67	2.353	2.353	0.0	79	89575	8.73	
17 Trichlorofluoromethane	101	2.377	2.377	0.0	93	102557	10.0	
18 Ethyl ether	59	2.639	2.639	0.0	96	93165	9.70	
19 Acrolein	56	2.798	2.798	0.0	91	97779	46.5	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.895	2.895	0.0	43	84259	9.82	
20 1,1-Dichloroethene	96	2.895	2.895	0.0	84	94605	9.87	
22 Acetone	43	2.956	2.956	0.0	100	205722	47.2	
23 Iodomethane	142	3.060	3.060	0.0	97	118094	9.59	
24 Carbon disulfide	76	3.096	3.096	0.0	100	226623	9.68	
26 3-Chloro-1-propene	41	3.218	3.218	0.0	79	180080	9.37	
28 Methyl acetate	43	3.261	3.261	0.0	98	596551	49.4	
29 Methylene Chloride	84	3.407	3.407	0.0	82	98438	9.22	
30 2-Methyl-2-propanol	59	3.523	3.523	0.0	97	124424	86.8	
31 Methyl tert-butyl ether	73	3.590	3.590	0.0	91	238340	9.71	
32 trans-1,2-Dichloroethene	96	3.596	3.596	0.0	88	79958	10.1	
33 Acrylonitrile	53	3.627	3.627	0.0	99	603553	98.7	
34 Hexane	57	3.816	3.816	0.0	95	165266	9.51	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/L	Flags
36 1,1-Dichloroethane	63	4.011	4.011	0.0	83	153571	9.84	
38 Vinyl acetate	43	4.060	4.060	0.0	96	466640	19.4	
42 2,2-Dichloropropane	77	4.535	4.535	0.0	81	40687	9.15	
43 cis-1,2-Dichloroethene	96	4.560	4.560	0.0	73	77884	9.83	
44 2-Butanone (MEK)	43	4.590	4.590	0.0	97	367233	49.3	
48 Chlorobromomethane	128	4.791	4.791	0.0	81	36153	9.59	
49 Tetrahydrofuran	42	4.834	4.834	0.0	94	101271	18.4	
50 Chloroform	85	4.864	4.864	0.0	83	76847	9.36	
51 1,1,1-Trichloroethane	97	4.998	4.998	0.0	90	76310	9.39	
52 Cyclohexane	56	5.023	5.023	0.0	79	236956	9.88	
53 Carbon tetrachloride	117	5.145	5.145	0.0	44	63616	8.92	
54 1,1-Dichloropropene	75	5.157	5.157	0.0	90	96395	9.98	
55 Isobutyl alcohol	43	5.346	5.346	0.0	92	172867	208.3	
56 Benzene	78	5.352	5.352	0.0	94	298491	9.95	
57 1,2-Dichloroethane	62	5.407	5.407	0.0	87	123166	9.81	
59 n-Heptane	43	5.553	5.553	0.0	95	195153	9.65	
61 Trichloroethene	95	5.968	5.968	0.0	92	73524	9.74	
62 Methylcyclohexane	83	6.108	6.108	0.0	94	135908	9.56	
63 1,2-Dichloropropane	63	6.193	6.193	0.0	91	90529	9.80	
65 Dibromomethane	93	6.334	6.334	0.0	89	41039	9.45	
66 1,4-Dioxane	88	6.346	6.346	0.0	91	17709	198.6	M
67 Dichlorobromomethane	83	6.480	6.480	0.0	91	77010	9.23	
70 2-Chloroethyl vinyl ether	63	6.754	6.754	0.0	87	63581	9.56	
72 cis-1,3-Dichloropropene	75	6.901	6.901	0.0	86	98054	9.23	
73 4-Methyl-2-pentanone (MIBK)	43	7.041	7.041	0.0	97	721579	50.0	
74 Toluene	92	7.199	7.199	0.0	98	192532	9.83	
76 trans-1,3-Dichloropropene	75	7.461	7.461	0.0	96	81567	9.25	
78 Ethyl methacrylate	69	7.516	7.516	0.0	93	101221	9.71	
79 1,1,2-Trichloroethane	83	7.650	7.650	0.0	88	52982	9.51	
80 Tetrachloroethene	166	7.742	7.742	0.0	87	67384	9.97	
81 1,3-Dichloropropane	76	7.815	7.815	0.0	97	124287	9.94	
82 2-Hexanone	43	7.876	7.876	0.0	99	512785	50.5	
83 Chlorodibromomethane	129	8.053	8.053	0.0	89	46635	7.91	
84 Ethylene Dibromide	107	8.156	8.156	0.0	95	66362	9.78	
86 Chlorobenzene	112	8.650	8.650	0.0	91	210344	9.97	
88 1,1,1,2-Tetrachloroethane	131	8.742	8.742	0.0	81	48580	9.27	
89 Ethylbenzene	91	8.742	8.742	0.0	99	358304	9.94	
90 m-Xylene & p-Xylene	106	8.864	8.864	0.0	0	139857	9.85	
91 o-Xylene	106	9.296	9.296	0.0	96	129748	9.62	
92 Styrene	104	9.321	9.321	0.0	95	239199	10.1	
93 Bromoform	173	9.552	9.552	0.0	92	22007	9.37	
95 Isopropylbenzene	105	9.674	9.674	0.0	96	353426	10.1	
97 Bromobenzene	156	10.010	10.010	0.0	97	77509	9.84	
98 1,1,2,2-Tetrachloroethane	83	10.040	10.040	0.0	86	89507	9.91	
99 1,2,3-Trichloropropane	110	10.083	10.083	0.0	74	31254	9.85	
100 trans-1,4-Dichloro-2-butene	53	10.089	10.089	0.0	35	36530	9.48	
101 N-Propylbenzene	91	10.095	10.095	0.0	97	415795	10.1	
102 2-Chlorotoluene	126	10.193	10.193	0.0	96	82608	9.96	
104 1,3,5-Trimethylbenzene	105	10.272	10.272	0.0	93	299698	9.96	
105 4-Chlorotoluene	126	10.302	10.302	0.0	96	83272	9.65	
106 tert-Butylbenzene	134	10.589	10.589	0.0	93	63252	9.69	
107 1,2,4-Trimethylbenzene	105	10.638	10.638	0.0	98	304764	9.82	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/L	Flags
109 sec-Butylbenzene	105	10.796	10.796	0.0	94	388109	10.1	
110 1,3-Dichlorobenzene	146	10.924	10.924	0.0	95	158840	10.0	
111 4-Isopropyltoluene	119	10.930	10.930	0.0	95	331002	9.98	
113 1,4-Dichlorobenzene	146	11.009	11.009	0.0	91	160281	9.70	
115 n-Butylbenzene	91	11.314	11.314	0.0	98	298928	10.0	
116 1,2-Dichlorobenzene	146	11.357	11.357	0.0	95	157142	10.1	
117 1,2-Dibromo-3-Chloropropane	75	12.076	12.076	0.0	61	14838	7.71	
119 1,2,4-Trichlorobenzene	180	12.765	12.765	0.0	93	102477	9.80	
120 Hexachlorobutadiene	225	12.881	12.881	0.0	92	39429	9.05	
121 Naphthalene	128	12.979	12.979	0.0	97	363274	9.90	
122 1,2,3-Trichlorobenzene	180	13.180	13.180	0.0	93	97465	9.43	
S 123 Total BTEX	1				0		49.2	
S 124 Xylenes, Total	1				0		19.5	
S 125 1,2-Dichloroethene, Total	1				0		19.9	
S 126 1,3-Dichloropropene, Total	1				0		18.5	

QC Flag Legend

Review Flags
M - Manually Integrated

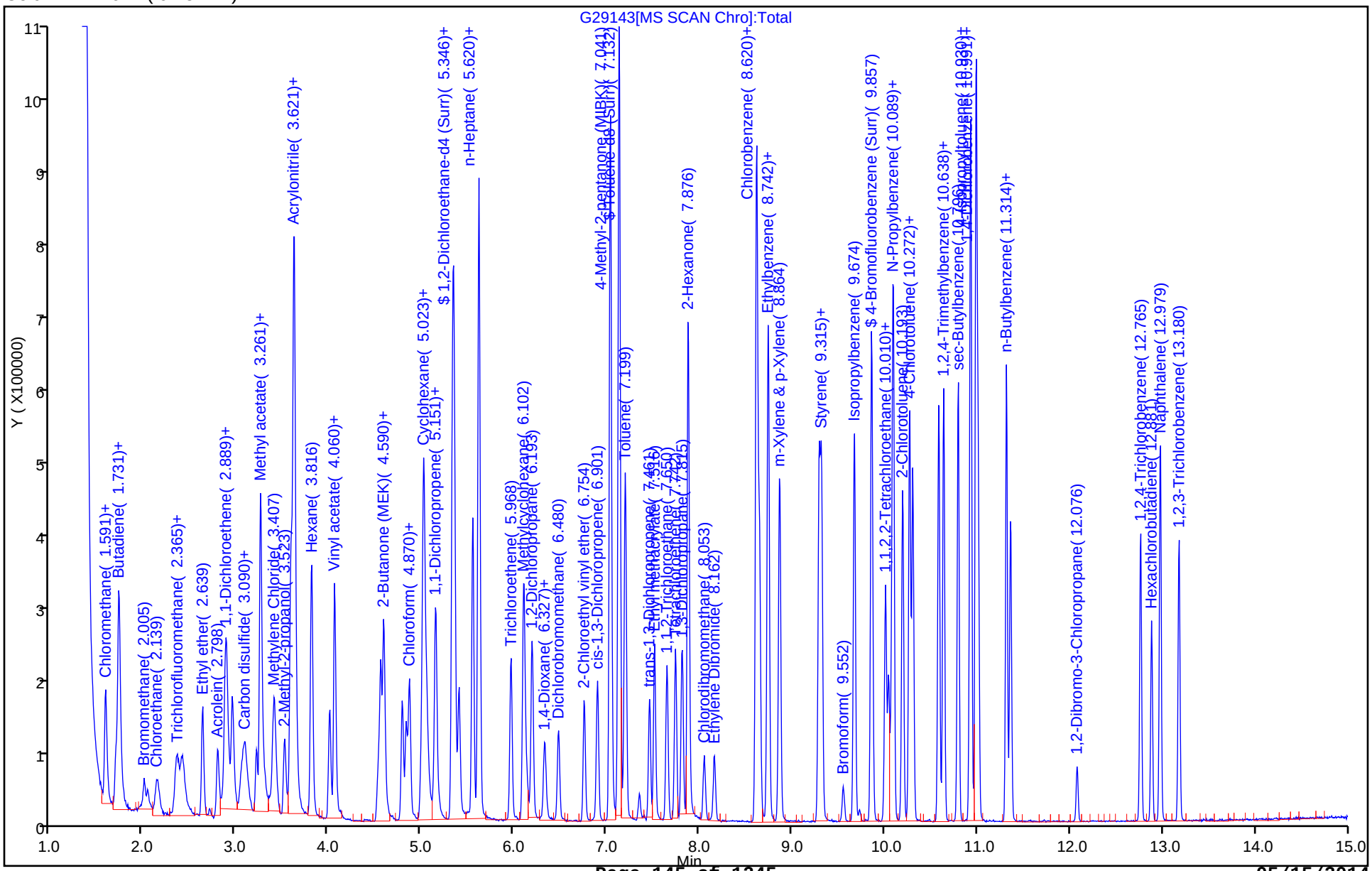
Report Date: 11-Apr-2014 09:20:36 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973G\20140410-30960.b\G29143.D

Injection Date:	10-Apr-2014 18:54:30	Instrument ID:	HP5973G	Operator ID:	RAL
Lims ID:	IC 3			Worklist Smp#:	7
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	G-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



Manual Integration/User Assign Peak Report

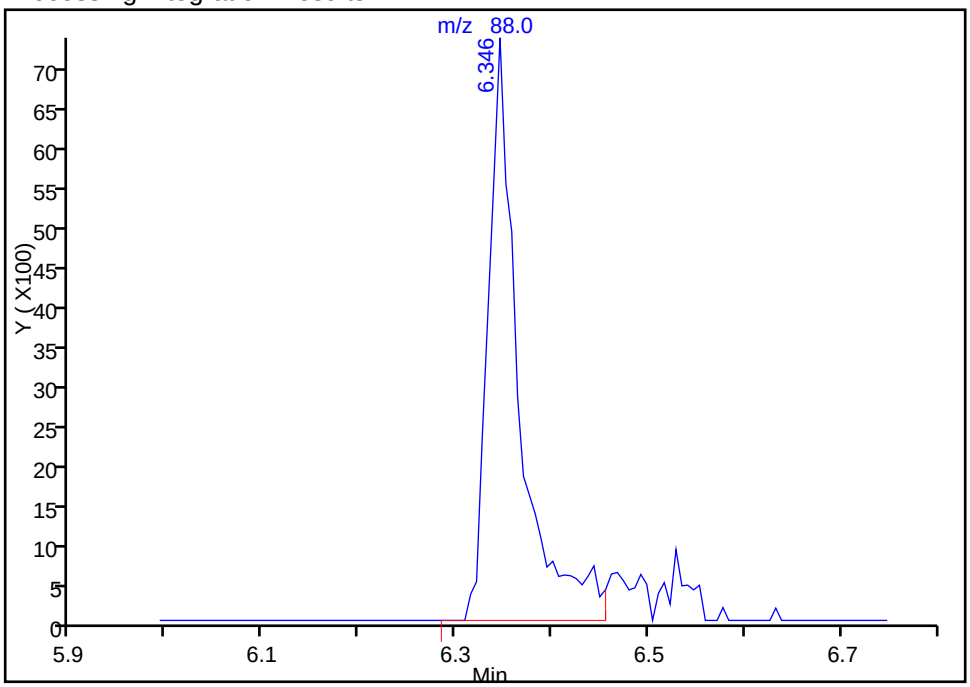
TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973G\20140410-30960.b\G29143.D
Injection Date: 10-Apr-2014 18:54:30 Instrument ID: HP5973G
Lims ID: IC 3
Client ID:
Operator ID: RAL ALS Bottle#: 5 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: G-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

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

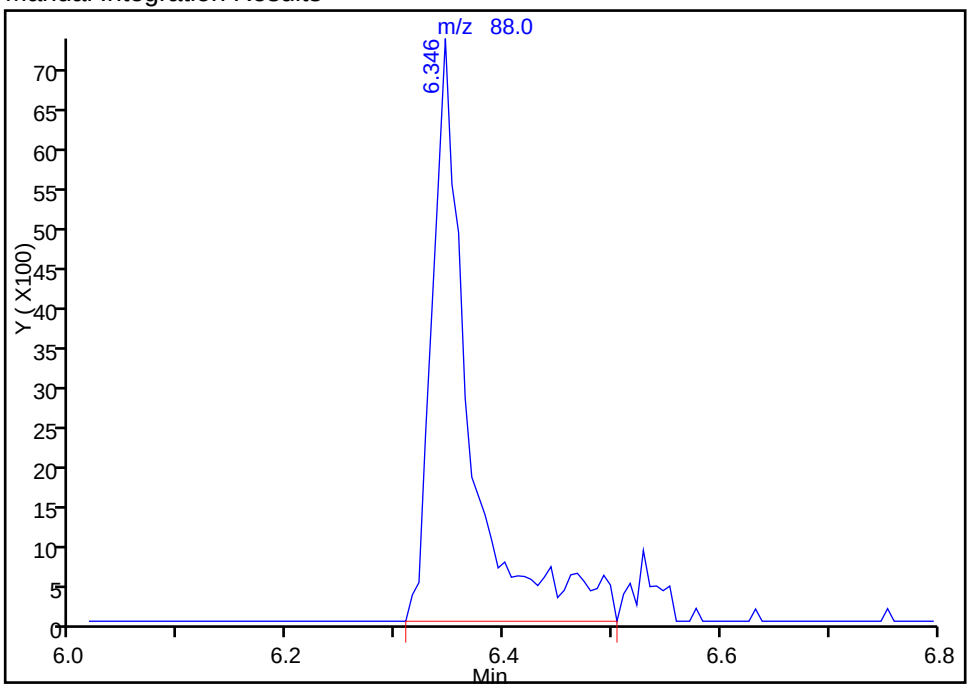
Processing Integration Results

RT: 6.35
Response: 16425
Amount: 186.3992



Manual Integration Results

RT: 6.35
Response: 17709
Amount: 198.5596



Reviewer: larsonr, 11-Apr-2014 09:20:34
Audit Action: Manually Integrated
Audit Reason: Split Peak

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973G\20140410-30960.b\G29144.D
Lims ID: ICIS 4
Client ID:
Sample Type: ICIS Calib Level: 5
Inject. Date: 10-Apr-2014 19:18:30 ALS Bottle#: 6 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: ICIS 4
Misc. Info.: 480-0030960-008 =480-0030960-008
Operator ID: RAL Instrument ID: HP5973G
Sublist: chrom-G-8260*sub20

Method: \\Bufchrom\ChromData\HP5973G\20140410-30960.b\G-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 11-Apr-2014 09:59:56 Calib Date: 10-Apr-2014 23:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5973G\20140410-30960.b\G29156.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK040

First Level Reviewer: larsonr Date: 11-Apr-2014 09:21:22

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/L	Flags
* 147 Fluorobenzene (IS)	96	5.620	5.620	0.0	85	699547	25.0	
* 2 Chlorobenzene-d5	82	8.620	8.620	0.0	88	292794	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.991	10.991	0.0	76	247644	25.0	
$ 148 Dibromofluoromethane (Surr)	113	5.023	5.023	0.0	58	150214	25.1	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	5.334	5.334	0.0	0	112800	24.8	
$ 5 Toluene-d8 (Surr)	98	7.132	7.132	0.0	92	675158	24.8	
$ 6 4-Bromofluorobenzene (Surr)	174	9.863	9.863	0.0	83	163953	24.5	
10 Dichlorodifluoromethane	85	1.444	1.444	0.0	86	258503	24.8	
12 Chloromethane	50	1.591	1.591	0.0	89	445994	23.9	
13 Vinyl chloride	62	1.712	1.712	0.0	82	327883	24.8	
144 Butadiene	54	1.731	1.731	0.0	90	396518	25.0	
14 Bromomethane	94	2.011	2.011	0.0	89	103214	23.2	
15 Chloroethane	64	2.139	2.139	0.0	92	173852	24.6	
16 Dichlorofluoromethane	67	2.365	2.365	0.0	81	254764	23.2	
17 Trichlorofluoromethane	101	2.389	2.389	0.0	83	273454	26.7	
18 Ethyl ether	59	2.633	2.633	0.0	97	233774	24.3	
19 Acrolein	56	2.798	2.798	0.0	93	272315	129.2	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.889	2.889	0.0	48	207336	24.1	
20 1,1-Dichloroethene	96	2.895	2.895	0.0	88	235322	24.5	
22 Acetone	43	2.956	2.956	0.0	98	522699	119.6	
23 Iodomethane	142	3.054	3.054	0.0	96	316229	25.6	
24 Carbon disulfide	76	3.102	3.102	0.0	99	623256	26.6	
26 3-Chloro-1-propene	41	3.218	3.218	0.0	64	504545	26.2	
28 Methyl acetate	43	3.261	3.261	0.0	98	1497382	123.8	
29 Methylene Chloride	84	3.407	3.407	0.0	81	241678	22.6	
30 2-Methyl-2-propanol	59	3.517	3.517	0.0	97	389110	270.8	
31 Methyl tert-butyl ether	73	3.590	3.590	0.0	90	612468	24.9	
32 trans-1,2-Dichloroethene	96	3.596	3.596	0.0	58	201450	25.3	
33 Acrylonitrile	53	3.621	3.621	0.0	98	1525339	248.9	
34 Hexane	57	3.816	3.816	0.0	95	443210	25.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/L	Flags
36 1,1-Dichloroethane	63	4.011	4.011	0.0	85	394934	25.2	
38 Vinyl acetate	43	4.060	4.060	0.0	96	1253002	52.0	
42 2,2-Dichloropropane	77	4.535	4.535	0.0	86	113596	25.5	
43 cis-1,2-Dichloroethene	96	4.559	4.559	0.0	74	197396	24.9	
44 2-Butanone (MEK)	43	4.590	4.590	0.0	91	942106	126.0	
48 Chlorobromomethane	128	4.791	4.791	0.0	82	93706	24.8	
49 Tetrahydrofuran	42	4.828	4.828	0.0	95	264315	47.9	
50 Chloroform	85	4.870	4.870	0.0	72	204149	24.8	
51 1,1,1-Trichloroethane	97	4.998	4.998	0.0	91	214896	26.4	
52 Cyclohexane	56	5.029	5.029	0.0	90	616154	25.6	
53 Carbon tetrachloride	117	5.145	5.145	0.0	55	179221	25.1	
54 1,1-Dichloropropene	75	5.157	5.157	0.0	90	246231	25.4	
55 Isobutyl alcohol	43	5.340	5.340	0.0	94	518634	577.2	
56 Benzene	78	5.352	5.352	0.0	94	743415	24.7	
57 1,2-Dichloroethane	62	5.401	5.401	0.0	71	313779	24.9	
59 n-Heptane	43	5.553	5.553	0.0	95	510048	25.1	
61 Trichloroethene	95	5.962	5.962	0.0	92	191929	25.3	
62 Methylcyclohexane	83	6.102	6.102	0.0	95	359883	25.2	
63 1,2-Dichloropropane	63	6.193	6.193	0.0	91	231016	24.9	
65 Dibromomethane	93	6.327	6.327	0.0	92	106270	24.4	
66 1,4-Dioxane	88	6.346	6.346	0.0	92	50731	543.1	
67 Dichlorobromomethane	83	6.480	6.480	0.0	92	221676	26.5	
70 2-Chloroethyl vinyl ether	63	6.754	6.754	0.0	88	169440	25.4	
72 cis-1,3-Dichloropropene	75	6.900	6.900	0.0	86	276304	26.0	
73 4-Methyl-2-pentanone (MIBK)	43	7.035	7.035	0.0	98	1850226	126.4	
74 Toluene	92	7.199	7.199	0.0	95	493518	24.8	
76 trans-1,3-Dichloropropene	75	7.461	7.461	0.0	92	236085	26.4	
78 Ethyl methacrylate	69	7.516	7.516	0.0	86	275808	26.1	
79 1,1,2-Trichloroethane	83	7.650	7.650	0.0	87	138366	24.5	
80 Tetrachloroethene	166	7.742	7.742	0.0	89	172363	25.1	
81 1,3-Dichloropropane	76	7.815	7.815	0.0	95	318506	25.1	
82 2-Hexanone	43	7.876	7.876	0.0	99	1325358	128.5	
83 Chlorodibromomethane	129	8.053	8.053	0.0	88	140084	21.6	
84 Ethylene Dibromide	107	8.162	8.162	0.0	97	175585	25.5	
86 Chlorobenzene	112	8.650	8.650	0.0	92	537466	25.1	
88 1,1,1,2-Tetrachloroethane	131	8.742	8.742	0.0	37	138886	26.1	
89 Ethylbenzene	91	8.742	8.742	0.0	98	915202	25.0	
90 m-Xylene & p-Xylene	106	8.863	8.863	0.0	0	361084	25.1	
91 o-Xylene	106	9.290	9.290	0.0	98	356044	26.0	
92 Styrene	104	9.321	9.321	0.0	94	610702	25.5	
93 Bromoform	173	9.552	9.552	0.0	93	70100	21.5	
95 Isopropylbenzene	105	9.674	9.674	0.0	96	918428	25.7	
97 Bromobenzene	156	10.010	10.010	0.0	98	200093	24.9	
98 1,1,2,2-Tetrachloroethane	83	10.040	10.040	0.0	83	232800	25.3	
99 1,2,3-Trichloropropane	110	10.077	10.077	0.0	63	82617	25.5	
100 trans-1,4-Dichloro-2-butene	53	10.089	10.089	0.0	41	101108	25.7	
101 N-Propylbenzene	91	10.095	10.095	0.0	97	1057843	25.2	
102 2-Chlorotoluene	126	10.199	10.199	0.0	96	210824	24.9	
104 1,3,5-Trimethylbenzene	105	10.272	10.272	0.0	95	788687	25.7	
105 4-Chlorotoluene	126	10.302	10.302	0.0	89	220827	25.1	
106 tert-Butylbenzene	134	10.589	10.589	0.0	93	168017	25.3	
107 1,2,4-Trimethylbenzene	105	10.638	10.638	0.0	69	810507	25.6	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/L	Flags
109 sec-Butylbenzene	105	10.796	10.796	0.0	94	1001620	25.6	
110 1,3-Dichlorobenzene	146	10.924	10.924	0.0	78	407821	25.2	
111 4-Isopropyltoluene	119	10.930	10.930	0.0	95	853790	25.2	
113 1,4-Dichlorobenzene	146	11.009	11.009	0.0	92	418548	24.9	
115 n-Butylbenzene	91	11.314	11.314	0.0	98	769079	25.3	
116 1,2-Dichlorobenzene	146	11.363	11.363	0.0	90	397535	25.0	
117 1,2-Dibromo-3-Chloropropane	75	12.076	12.076	0.0	68	47822	22.7	
119 1,2,4-Trichlorobenzene	180	12.765	12.765	0.0	94	266195	25.0	
120 Hexachlorobutadiene	225	12.881	12.881	0.0	93	107424	24.2	
121 Naphthalene	128	12.979	12.979	0.0	97	968110	25.9	
122 1,2,3-Trichlorobenzene	180	13.180	13.180	0.0	93	262194	24.9	
S 123 Total BTEX	1				0		125.6	
S 124 Xylenes, Total	1				0		51.1	
S 125 1,2-Dichloroethene, Total	1				0		50.2	
S 126 1,3-Dichloropropene, Total	1				0		52.3	

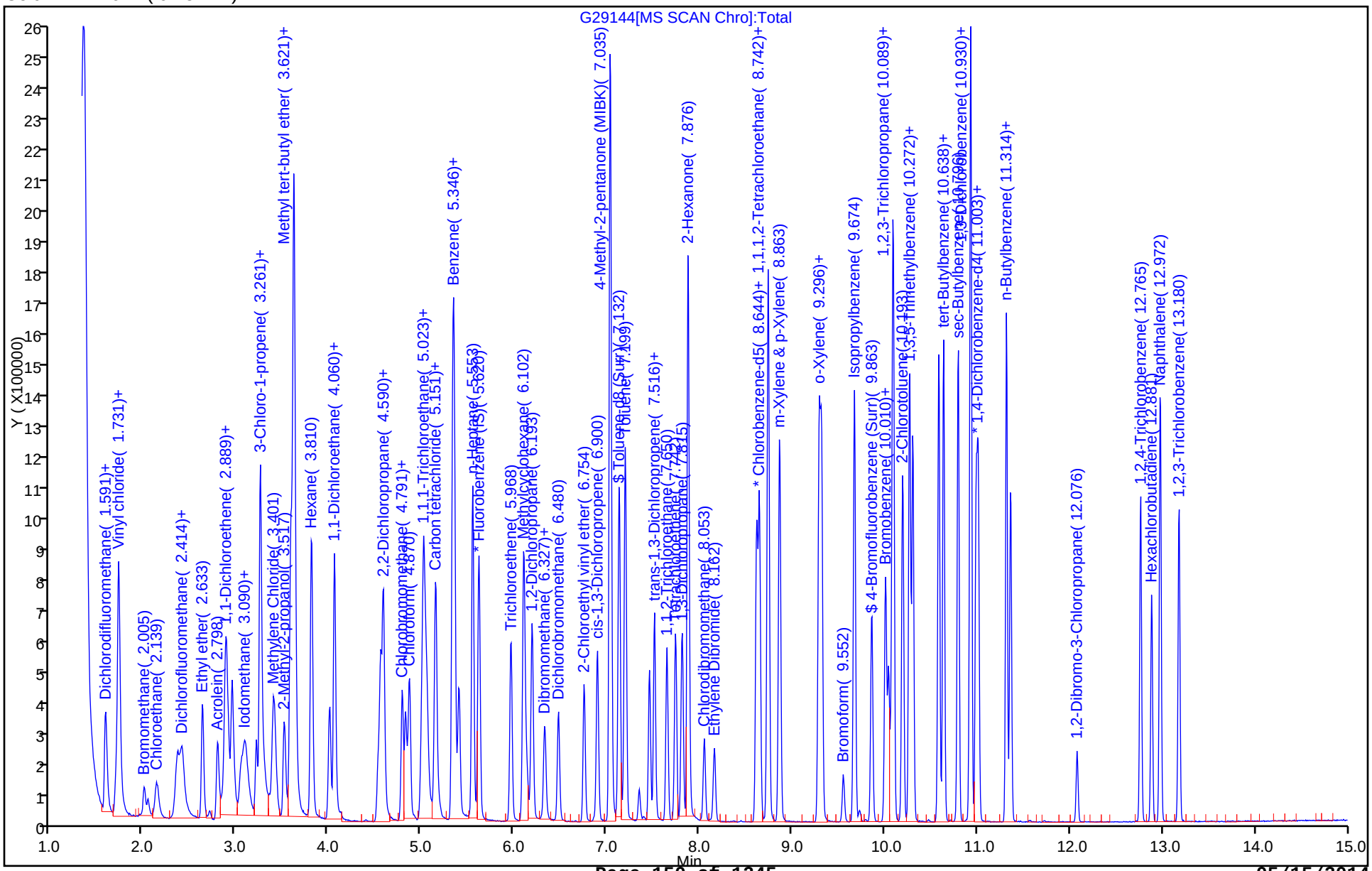
Report Date: 11-Apr-2014 09:59:57 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973G\20140410-30960.b\G29144.D

Injection Date:	10-Apr-2014 19:18:30	Instrument ID:	HP5973G	Operator ID:	RAL
Lims ID:	ICIS 4			Worklist Smp#:	8
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	G-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973G\20140410-30960.b\G29145.D
Lims ID: IC 5
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 10-Apr-2014 19:40:30 ALS Bottle#: 7 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 5
Misc. Info.: 480-0030960-009 =480-0030960-009
Operator ID: RAL Instrument ID: HP5973G
Sublist: chrom-G-8260*sub20

Method: \\Bufchrom\ChromData\HP5973G\20140410-30960.b\G-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 11-Apr-2014 09:28:10 Calib Date: 10-Apr-2014 23:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5973G\20140410-30960.b\G29156.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK040

First Level Reviewer: larsonr Date: 11-Apr-2014 09:28:10

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/L	Flags
* 147 Fluorobenzene (IS)	96	5.620	5.620	0.0	98	684945	25.0	
* 2 Chlorobenzene-d5	82	8.620	8.620	0.0	88	286180	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.985	10.991	-0.006	69	242263	25.0	
$ 148 Dibromofluoromethane (Surr)	113	5.023	5.023	0.0	56	151574	25.9	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	5.334	5.334	0.0	0	112708	25.3	
$ 5 Toluene-d8 (Surr)	98	7.132	7.132	0.0	93	690281	25.9	
$ 6 4-Bromofluorobenzene (Surr)	174	9.864	9.863	0.001	82	172879	26.5	
10 Dichlorodifluoromethane	85	1.444	1.444	0.0	87	526687	51.5	
12 Chloromethane	50	1.597	1.591	0.006	89	893965	48.8	
13 Vinyl chloride	62	1.719	1.712	0.007	83	665233	51.3	
144 Butadiene	54	1.737	1.731	0.006	90	813939	52.4	
14 Bromomethane	94	2.042	2.011	0.031	90	221550	50.9	
15 Chloroethane	64	2.146	2.139	0.007	93	334152	48.2	
16 Dichlorofluoromethane	67	2.365	2.365	0.0	81	535034	48.8	
17 Trichlorofluoromethane	101	2.389	2.389	0.0	85	588553	58.6	
18 Ethyl ether	59	2.639	2.633	0.006	96	472386	50.1	
19 Acrolein	56	2.798	2.798	0.0	95	553884	268.4	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.895	2.889	0.006	45	441337	52.4	
20 1,1-Dichloroethene	96	2.895	2.895	0.0	79	492354	52.3	
22 Acetone	43	2.956	2.956	0.0	100	1081016	252.7	
23 Iodomethane	142	3.060	3.054	0.006	97	634788	52.5	
24 Carbon disulfide	76	3.103	3.102	0.001	100	1258628	54.8	
26 3-Chloro-1-propene	41	3.225	3.218	0.007	84	996452	52.8	
28 Methyl acetate	43	3.261	3.261	0.0	98	3006591	253.8	
29 Methylene Chloride	84	3.407	3.407	0.0	83	477043	45.5	
30 2-Methyl-2-propanol	59	3.517	3.517	0.0	98	798754	567.8	
31 Methyl tert-butyl ether	73	3.590	3.590	0.0	90	1233390	51.2	
32 trans-1,2-Dichloroethene	96	3.603	3.596	0.007	89	403181	51.8	
33 Acrylonitrile	53	3.627	3.621	0.006	99	3073377	512.1	
34 Hexane	57	3.816	3.816	0.0	94	869977	51.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/L	Flags
36 1,1-Dichloroethane	63	4.011	4.011	0.0	85	803262	52.4	
38 Vinyl acetate	43	4.060	4.060	0.0	96	2621805	111.0	
42 2,2-Dichloropropane	77	4.535	4.535	0.0	88	235695	54.0	
43 cis-1,2-Dichloroethene	96	4.560	4.559	0.001	74	399107	51.3	
44 2-Butanone (MEK)	43	4.590	4.590	0.0	97	1923521	262.8	
48 Chlorobromomethane	128	4.797	4.791	0.006	84	190006	51.3	
49 Tetrahydrofuran	42	4.828	4.828	0.0	95	538513	99.8	
50 Chloroform	85	4.871	4.870	0.001	83	408450	50.7	
51 1,1,1-Trichloroethane	97	5.005	4.998	0.007	93	440240	55.2	
52 Cyclohexane	56	5.029	5.029	0.0	92	1234972	52.4	
53 Carbon tetrachloride	117	5.151	5.145	0.006	80	404037	57.7	
54 1,1-Dichloropropene	75	5.157	5.157	0.0	91	500655	52.8	
55 Isobutyl alcohol	43	5.334	5.340	-0.006	96	1128647	1254.7	
56 Benzene	78	5.352	5.352	0.0	95	1509535	51.2	
57 1,2-Dichloroethane	62	5.407	5.401	0.006	88	631651	51.2	
59 n-Heptane	43	5.553	5.553	0.0	96	1017709	51.3	
61 Trichloroethene	95	5.968	5.962	0.006	93	374946	50.6	
62 Methylcyclohexane	83	6.108	6.102	0.006	96	748227	53.6	
63 1,2-Dichloropropane	63	6.193	6.193	0.0	92	468149	51.6	
65 Dibromomethane	93	6.328	6.327	0.001	92	222204	52.1	
66 1,4-Dioxane	88	6.340	6.346	-0.006	91	95683	1048.0	M
67 Dichlorobromomethane	83	6.480	6.480	0.0	92	456889	55.8	
70 2-Chloroethyl vinyl ether	63	6.754	6.754	0.0	88	355681	54.5	
72 cis-1,3-Dichloropropene	75	6.901	6.900	0.001	87	591874	56.8	
73 4-Methyl-2-pentanone (MIBK)	43	7.035	7.035	0.0	98	3767050	263.3	
74 Toluene	92	7.199	7.199	0.0	98	997007	51.3	
76 trans-1,3-Dichloropropene	75	7.462	7.461	0.001	93	528477	60.4	
78 Ethyl methacrylate	69	7.516	7.516	0.0	93	579257	56.0	
79 1,1,2-Trichloroethane	83	7.651	7.650	0.001	88	283054	51.2	
80 Tetrachloroethene	166	7.742	7.742	0.0	87	342926	51.2	
81 1,3-Dichloropropane	76	7.815	7.815	0.0	96	645849	52.0	
82 2-Hexanone	43	7.876	7.876	0.0	99	2683647	266.2	
83 Chlorodibromomethane	129	8.053	8.053	0.0	89	318645	49.1	
84 Ethylene Dibromide	107	8.163	8.162	0.001	98	360157	53.5	
86 Chlorobenzene	112	8.650	8.650	0.0	92	1068909	51.1	
88 1,1,1,2-Tetrachloroethane	131	8.742	8.742	0.0	82	307064	59.1	
89 Ethylbenzene	91	8.742	8.742	0.0	98	1865911	52.2	
90 m-Xylene & p-Xylene	106	8.864	8.863	0.001	0	746755	53.0	
91 o-Xylene	106	9.290	9.290	0.0	98	716198	53.5	
92 Styrene	104	9.321	9.321	0.0	94	1258770	53.7	
93 Bromoform	173	9.553	9.552	0.001	95	170175	48.0	
95 Isopropylbenzene	105	9.675	9.674	0.001	96	1859283	53.3	
97 Bromobenzene	156	10.010	10.010	0.0	98	409898	52.2	
98 1,1,2,2-Tetrachloroethane	83	10.040	10.040	0.0	87	484484	53.8	
99 1,2,3-Trichloropropane	110	10.077	10.077	0.0	81	164702	52.1	
100 trans-1,4-Dichloro-2-butene	53	10.089	10.089	0.0	66	222065	57.8	
101 N-Propylbenzene	91	10.095	10.095	0.0	98	2164450	52.6	
102 2-Chlorotoluene	126	10.193	10.199	-0.006	95	422198	51.0	
104 1,3,5-Trimethylbenzene	105	10.272	10.272	0.0	82	1594517	53.1	
105 4-Chlorotoluene	126	10.302	10.302	0.0	96	444994	51.7	
106 tert-Butylbenzene	134	10.583	10.589	-0.006	94	345877	53.1	
107 1,2,4-Trimethylbenzene	105	10.638	10.638	0.0	98	1652198	53.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/L	Flags
109 sec-Butylbenzene	105	10.796	10.796	0.0	95	2011193	52.5	
110 1,3-Dichlorobenzene	146	10.924	10.924	0.0	96	806979	50.9	
111 4-Isopropyltoluene	119	10.930	10.930	0.0	95	1743495	52.7	
113 1,4-Dichlorobenzene	146	11.010	11.009	0.001	92	832268	50.5	
115 n-Butylbenzene	91	11.314	11.314	0.0	97	1577285	52.9	
116 1,2-Dichlorobenzene	146	11.357	11.363	-0.006	93	790958	50.9	
117 1,2-Dibromo-3-Chloropropane	75	12.076	12.076	0.0	77	107624	51.2	
119 1,2,4-Trichlorobenzene	180	12.765	12.765	0.0	91	562925	54.0	
120 Hexachlorobutadiene	225	12.881	12.881	0.0	93	229057	52.7	
121 Naphthalene	128	12.973	12.979	-0.006	97	2035077	55.6	
122 1,2,3-Trichlorobenzene	180	13.180	13.180	0.0	93	542126	52.6	
S 123 Total BTEX	1				0		261.2	
S 124 Xylenes, Total	1				0		106.5	
S 125 1,2-Dichloroethene, Total	1				0		103.1	
S 126 1,3-Dichloropropene, Total	1				0		117.2	

QC Flag Legend

Review Flags
M - Manually Integrated

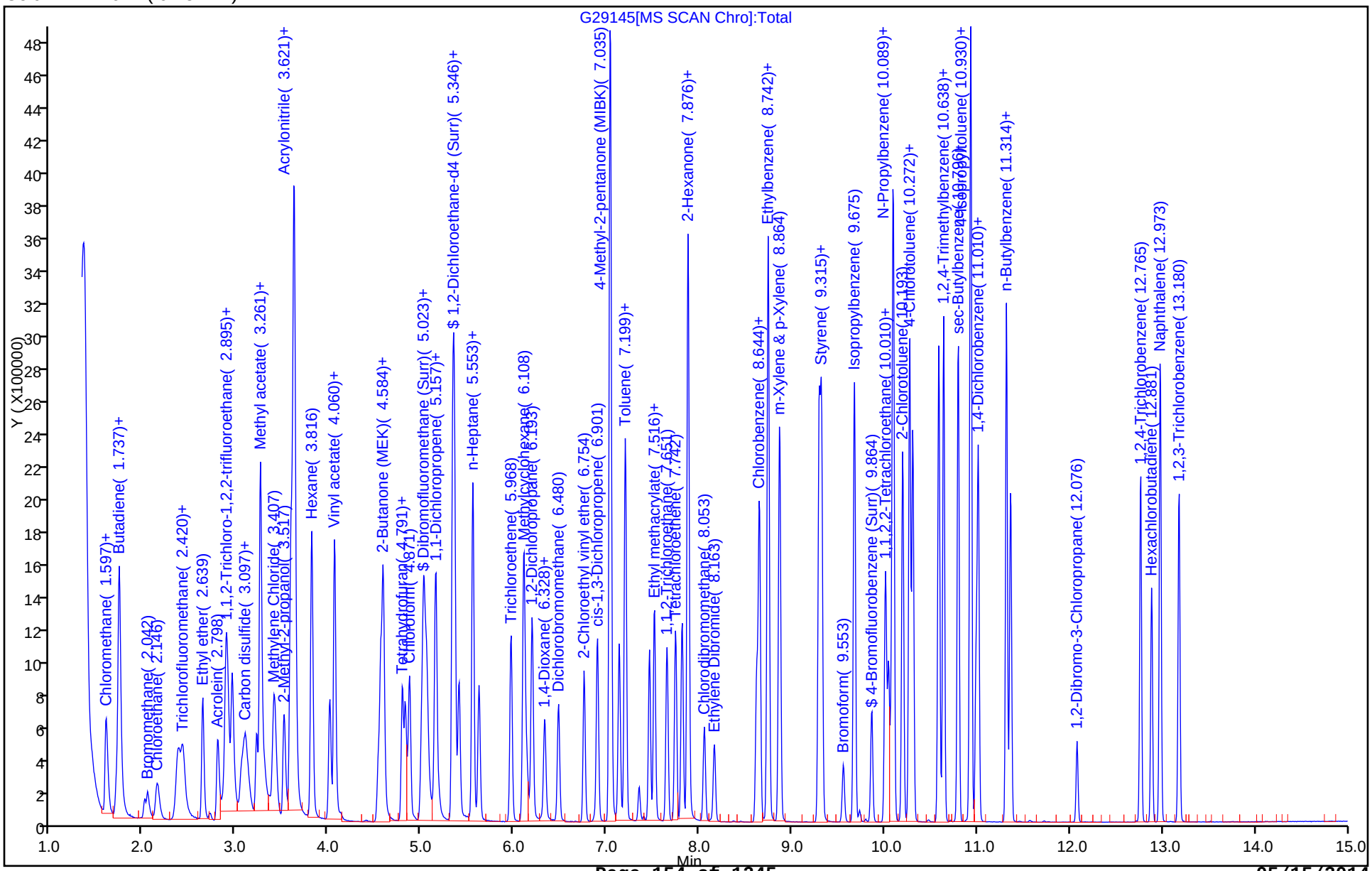
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TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973G\20140410-30960.b\G29145.D

Injection Date:	10-Apr-2014 19:40:30	Instrument ID:	HP5973G	Operator ID:	RAL
Lims ID:	IC 5			Worklist Smp#:	9
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	G-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



Manual Integration/User Assign Peak Report

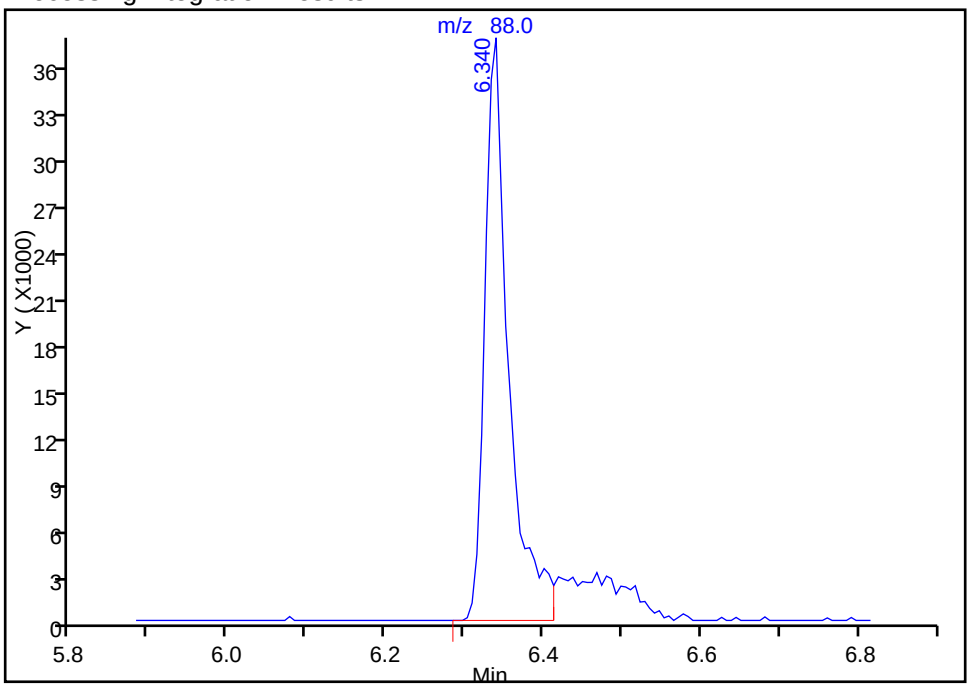
TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973G\20140410-30960.b\G29145.D
Injection Date: 10-Apr-2014 19:40:30 Instrument ID: HP5973G
Lims ID: IC 5
Client ID:
Operator ID: RAL ALS Bottle#: 7 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: G-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

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

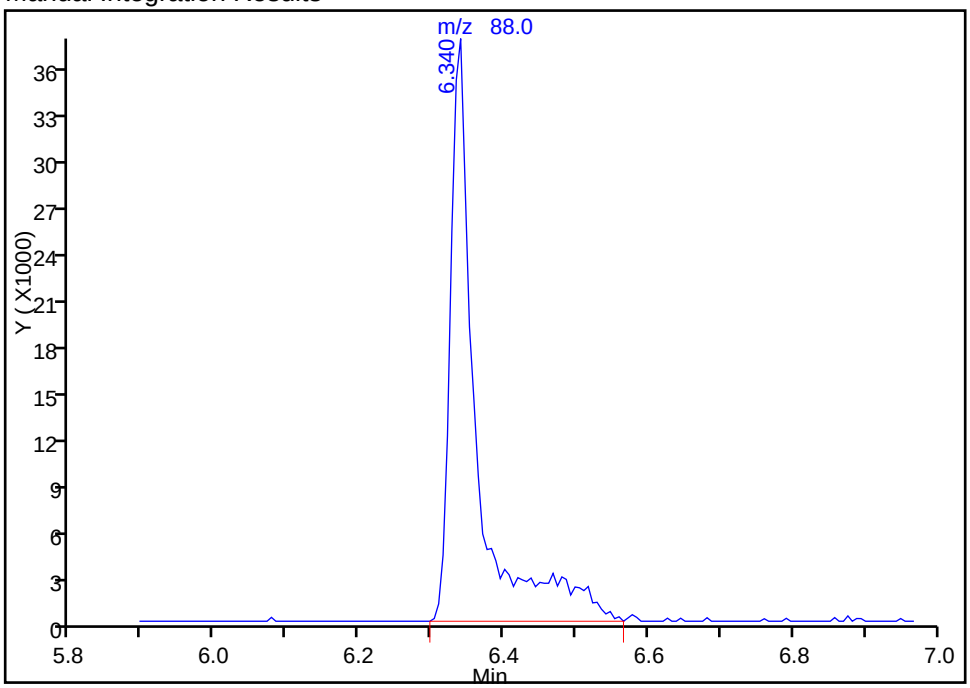
Processing Integration Results

RT: 6.34
Response: 78784
Amount: 890.3856



Manual Integration Results

RT: 6.34
Response: 95683
Amount: 1048.0121



Reviewer: larsonr, 11-Apr-2014 09:28:10
Audit Action: Manually Integrated
Audit Reason: Split Peak

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973G\20140410-30960.b\G29146.D
Lims ID: IC 6
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 10-Apr-2014 20:03:30 ALS Bottle#: 8 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 6
Misc. Info.: 480-0030960-010 =480-0030960-010
Operator ID: RAL Instrument ID: HP5973G
Sublist: chrom-G-8260*sub20

Method: \\Bufchrom\ChromData\HP5973G\20140410-30960.b\G-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 11-Apr-2014 09:51:31 Calib Date: 10-Apr-2014 23:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5973G\20140410-30960.b\G29156.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK040

First Level Reviewer: larsonr Date: 11-Apr-2014 09:51:31

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/L	Flags
* 147 Fluorobenzene (IS)	96	5.620	5.620	0.0	98	702626	25.0	
* 2 Chlorobenzene-d5	82	8.620	8.620	0.0	88	300500	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.991	10.985	0.006	63	266158	25.0	
$ 148 Dibromofluoromethane (Surr)	113	5.023	5.023	0.0	44	152573	25.4	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	5.334	5.334	0.0	0	108751	23.8	
$ 5 Toluene-d8 (Surr)	98	7.132	7.132	0.0	94	685425	24.5	
$ 6 4-Bromofluorobenzene (Surr)	174	9.863	9.863	0.0	82	174916	25.5	
10 Dichlorodifluoromethane	85	1.444	1.444	0.0	88	1009059	96.2	
12 Chloromethane	50	1.597	1.591	0.006	89	1774784	94.5	
13 Vinyl chloride	62	1.719	1.712	0.007	83	1306217	98.2	
144 Butadiene	54	1.737	1.731	0.006	90	1550190	97.2	
14 Bromomethane	94	2.042	2.011	0.031	90	445435	99.7	
15 Chloroethane	64	2.152	2.139	0.013	93	709649	99.8	
16 Dichlorofluoromethane	67	2.371	2.365	0.006	81	1186633	104.5	
17 Trichlorofluoromethane	101	2.383	2.389	-0.006	84	1201439	116.7	
18 Ethyl ether	59	2.633	2.633	0.0	97	961589	99.4	
19 Acrolein	56	2.798	2.798	0.0	95	1110870	524.8	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.895	2.889	0.006	46	826339	95.6	
20 1,1-Dichloroethene	96	2.895	2.895	0.0	84	986758	102.2	
22 Acetone	43	2.956	2.956	0.0	100	2213466	504.3	
23 Iodomethane	142	3.060	3.054	0.006	97	1260865	101.7	
24 Carbon disulfide	76	3.103	3.102	0.001	100	2559125	108.6	
26 3-Chloro-1-propene	41	3.218	3.218	0.0	89	2023464	104.5	
28 Methyl acetate	43	3.255	3.261	-0.006	98	5917190	486.9	
29 Methylene Chloride	84	3.413	3.407	0.006	83	938179	87.2	
30 2-Methyl-2-propanol	59	3.511	3.517	-0.006	99	1740780	1206.3	
31 Methyl tert-butyl ether	73	3.584	3.590	-0.006	94	2521688	102.1	
32 trans-1,2-Dichloroethene	96	3.596	3.596	0.0	89	798979	100.1	
33 Acrylonitrile	53	3.621	3.621	0.0	98	5984827	972.2	
34 Hexane	57	3.816	3.816	0.0	95	1701976	97.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/L	Flags
36 1,1-Dichloroethane	63	4.011	4.011	0.0	85	1556752	99.0	
38 Vinyl acetate	43	4.060	4.060	0.0	96	5254812	216.9	
42 2,2-Dichloropropane	77	4.529	4.535	-0.006	93	464058	103.7	
43 cis-1,2-Dichloroethene	96	4.560	4.559	0.001	74	786390	98.6	
44 2-Butanone (MEK)	43	4.584	4.590	-0.006	96	3817829	508.4	
48 Chlorobromomethane	128	4.791	4.791	0.0	82	372914	98.2	
49 Tetrahydrofuran	42	4.822	4.828	-0.006	95	1103300	199.3	
50 Chloroform	85	4.871	4.870	0.001	83	816453	98.7	
51 1,1,1-Trichloroethane	97	4.999	4.998	0.001	93	913931	111.7	
52 Cyclohexane	56	5.029	5.029	0.0	93	2437242	100.9	
53 Carbon tetrachloride	117	5.145	5.145	0.0	80	870449	121.1	
54 1,1-Dichloropropene	75	5.157	5.157	0.0	91	987524	101.5	
55 Isobutyl alcohol	43	5.334	5.340	-0.006	97	2419775	2597.2	
56 Benzene	78	5.352	5.352	0.0	95	2951701	97.7	
57 1,2-Dichloroethane	62	5.407	5.401	0.006	88	1252618	99.1	
59 n-Heptane	43	5.553	5.553	0.0	96	1966348	96.5	
61 Trichloroethene	95	5.968	5.962	0.006	94	755093	99.3	
62 Methylcyclohexane	83	6.108	6.102	0.006	95	1496127	104.4	
63 1,2-Dichloropropane	63	6.193	6.193	0.0	92	935097	100.5	
65 Dibromomethane	93	6.328	6.327	0.001	92	434536	99.4	
66 1,4-Dioxane	88	6.334	6.346	-0.012	90	199509	2081.1	
67 Dichlorobromomethane	83	6.480	6.480	0.0	92	963016	114.6	
70 2-Chloroethyl vinyl ether	63	6.754	6.754	0.0	87	728695	108.8	
72 cis-1,3-Dichloropropene	75	6.901	6.900	0.001	87	1228148	114.9	
73 4-Methyl-2-pentanone (MIBK)	43	7.035	7.035	0.0	97	7185848	478.4	
74 Toluene	92	7.199	7.199	0.0	98	1941267	95.1	
76 trans-1,3-Dichloropropene	75	7.461	7.461	0.0	94	1112279	121.1	
78 Ethyl methacrylate	69	7.516	7.516	0.0	93	1180272	108.7	
79 1,1,2-Trichloroethane	83	7.650	7.650	0.0	87	560303	96.5	
80 Tetrachloroethene	166	7.742	7.742	0.0	88	684401	97.2	
81 1,3-Dichloropropane	76	7.815	7.815	0.0	96	1290543	99.0	
82 2-Hexanone	43	7.876	7.876	0.0	98	5253760	496.3	
83 Chlorodibromomethane	129	8.053	8.053	0.0	89	707908	103.0	
84 Ethylene Dibromide	107	8.163	8.162	0.001	98	722512	102.3	
86 Chlorobenzene	112	8.650	8.650	0.0	92	2144917	97.6	
88 1,1,1,2-Tetrachloroethane	131	8.742	8.742	0.0	88	641029	117.4	
89 Ethylbenzene	91	8.742	8.742	0.0	98	3676726	97.9	
90 m-Xylene & p-Xylene	106	8.864	8.863	0.001	0	1483677	100.3	
91 o-Xylene	106	9.296	9.290	0.006	96	1436659	102.2	
92 Styrene	104	9.321	9.321	0.0	94	2517236	102.3	
93 Bromoform	173	9.553	9.552	0.001	96	396095	101.9	
95 Isopropylbenzene	105	9.674	9.674	0.0	97	3725279	97.2	
97 Bromobenzene	156	10.010	10.010	0.0	98	833311	96.6	
98 1,1,2,2-Tetrachloroethane	83	10.046	10.040	0.006	89	988355	99.9	
99 1,2,3-Trichloropropane	110	10.083	10.077	0.006	80	334377	96.2	
100 trans-1,4-Dichloro-2-butene	53	10.089	10.089	0.0	74	476370	112.8	
101 N-Propylbenzene	91	10.095	10.095	0.0	97	4299783	95.2	
102 2-Chlorotoluene	126	10.199	10.199	0.0	96	857481	94.3	
104 1,3,5-Trimethylbenzene	105	10.272	10.272	0.0	85	3281311	99.5	
105 4-Chlorotoluene	126	10.302	10.302	0.0	89	911841	96.5	
106 tert-Butylbenzene	134	10.589	10.589	0.0	94	699292	97.8	
107 1,2,4-Trimethylbenzene	105	10.638	10.638	0.0	98	3394086	99.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/L	Flags
109 sec-Butylbenzene	105	10.796	10.796	0.0	95	4118866	97.9	
110 1,3-Dichlorobenzene	146	10.924	10.924	0.0	95	1658550	95.3	
111 4-Isopropyltoluene	119	10.930	10.930	0.0	95	3581670	98.5	
113 1,4-Dichlorobenzene	146	11.010	11.009	0.001	91	1710166	94.5	
115 n-Butylbenzene	91	11.314	11.314	0.0	97	3298965	100.8	
116 1,2-Dichlorobenzene	146	11.363	11.363	0.0	94	1668550	97.8	
117 1,2-Dibromo-3-Chloropropane	75	12.076	12.076	0.0	78	241281	103.6	
119 1,2,4-Trichlorobenzene	180	12.765	12.765	0.0	91	1192630	104.1	
120 Hexachlorobutadiene	225	12.887	12.881	0.006	95	501644	105.1	
121 Naphthalene	128	12.973	12.979	-0.006	97	4279758	106.5	
122 1,2,3-Trichlorobenzene	180	13.180	13.180	0.0	93	1155180	102.0	
S 123 Total BTEX	1				0		493.2	
S 124 Xylenes, Total	1				0		202.5	
S 125 1,2-Dichloroethene, Total	1				0		198.6	
S 126 1,3-Dichloropropene, Total	1				0		236.0	

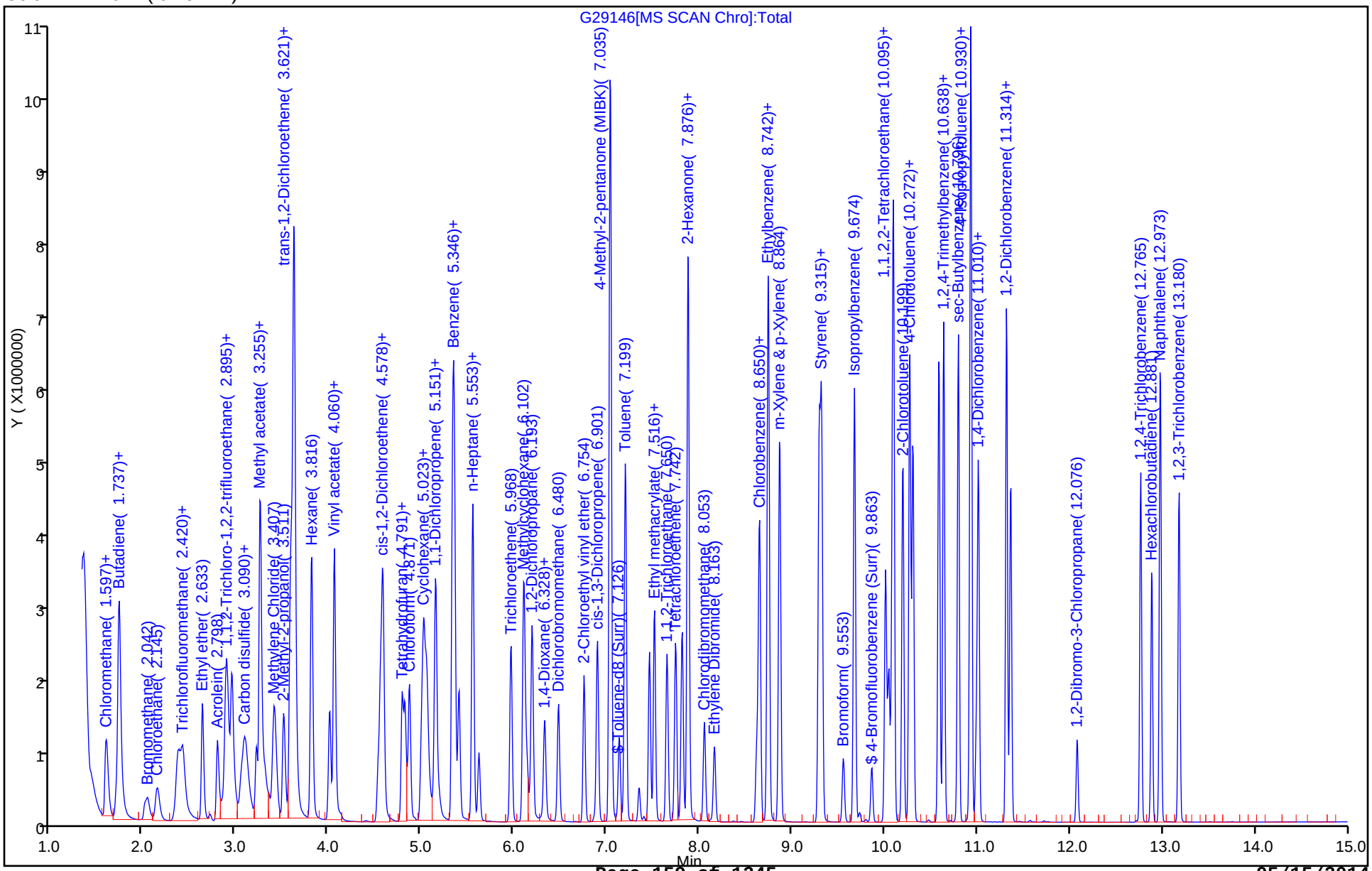
Report Date: 11-Apr-2014 09:51:32 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973G\20140410-30960.b\G29146.D

Injection Date:	10-Apr-2014 20:03:30	Instrument ID:	HP5973G	Operator ID:	RAL
Lims ID:	IC 6			Worklist Smp#:	10
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	G-8260	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.: 480-58807-1

SDG No.:

Lab Sample ID: CCVIS 480-179119/3 Calibration Date: 04/30/2014 11:41

Instrument ID: HP5973G Calib Start Date: 04/10/2014 17:45

GC Column: ZB-624 (60) ID: 0.25(mm) Calib End Date: 04/10/2014 20:03

Lab File ID: G29936.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.3732	0.3500	0.1000	23.4	25.0	-6.2	20.0
Chloromethane	Ave	0.6681	0.7039	0.1000	26.3	25.0	5.4	20.0
Vinyl chloride	Ave	0.4732	0.5114	0.1000	27.0	25.0	8.1	20.0
Bromomethane	Ave	0.1590	0.1688	0.1000	26.5	25.0	6.2	20.0
Chloroethane	Ave	0.2531	0.2350	0.1000	23.2	25.0	-7.1	20.0
Dichlorofluoromethane	Lin1		0.3753		23.9	25.0	-4.5	20.0
Trichlorofluoromethane	Ave	0.3664	0.3894	0.1000	26.6	25.0	6.3	20.0
Ethyl ether	Ave	0.3442	0.3535		25.7	25.0	2.7	20.0
Acrolein	Ave	0.0753	0.0620		103	125	-17.7	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.3075	0.2696	0.1000	21.9	25.0	-12.3	20.0
1,1-Dichloroethene	Ave	0.3435	0.3524	0.1000	25.6	25.0	2.6	20.0
Acetone	Ave	0.1562	0.1509	0.1000	121	125	-3.3	20.0
Iodomethane	Ave	0.4412	0.4815		27.3	25.0	9.1	20.0
Carbon disulfide	Ave	0.8385	0.9102	0.1000	27.1	25.0	8.5	20.0
Allyl chloride	Ave	0.6890	0.7231		26.2	25.0	5.0	20.0
Methyl acetate	Ave	0.4324	0.4526	0.1000	131	125	4.7	20.0
Methylene Chloride	Ave	0.3827	0.3453	0.1000	22.6	25.0	-9.8	20.0
2-Methyl-2-propanol	Ave	0.0513	0.0495		241	250	-3.7	20.0
Methyl tert-butyl ether	Ave	0.8792	0.9318	0.1000	26.5	25.0	6.0	20.0
trans-1,2-Dichloroethene	Ave	0.2841	0.2859	0.1000	25.2	25.0	0.6	20.0
Acrylonitrile	Ave	0.2190	0.2208		252	250	0.8	20.0
Hexane	Ave	0.6227	0.5081		20.4	25.0	-18.4	20.0
1,1-Dichloroethane	Ave	0.5594	0.6001	0.2000	26.8	25.0	7.3	20.0
Vinyl acetate	Ave	0.8619	0.8090		46.9	50.0	-6.1	20.0
2,2-Dichloropropane	Ave	0.1593	0.1826		28.7	25.0	14.7	20.0
cis-1,2-Dichloroethene	Ave	0.2838	0.2961	0.1000	26.1	25.0	4.3	20.0
2-Butanone (MEK)	Ave	0.2672	0.2661	0.1000	124	125	-0.4	20.0
Chlorobromomethane	Ave	0.1351	0.1385		25.6	25.0	2.5	20.0
Tetrahydrofuran	Ave	0.1970	0.1896		48.1	50.0	-3.8	20.0
Chloroform	Ave	0.2943	0.3016	0.2000	25.6	25.0	2.5	20.0
1,1,1-Trichloroethane	Ave	0.2912	0.3222	0.1000	27.7	25.0	10.7	20.0
Cyclohexane	Ave	0.8596	0.7611	0.1000	22.1	25.0	-11.5	20.0
Carbon tetrachloride	Ave	0.2557	0.2907	0.1000	28.4	25.0	13.7	20.0
1,1-Dichloropropene	Ave	0.3461	0.3603		26.0	25.0	4.1	20.0
Isobutyl alcohol	Lin1		0.0294		572	625	-8.5	20.0
Benzene	Ave	1.075	1.094	0.5000	25.4	25.0	1.7	20.0
1,2-Dichloroethane	Ave	0.4499	0.4707	0.1000	26.2	25.0	4.6	20.0
n-Heptane	Ave	0.7248	0.6391		22.0	25.0	-11.8	20.0
Trichloroethene	Ave	0.2706	0.2748	0.2000	25.4	25.0	1.6	20.0
Methylcyclohexane	Ave	0.5097	0.4322	0.1000	21.2	25.0	-15.2	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1

SDG No.:

Lab Sample ID: CCVIS 480-179119/3 Calibration Date: 04/30/2014 11:41

Instrument ID: HP5973G Calib Start Date: 04/10/2014 17:45

GC Column: ZB-624 (60) ID: 0.25(mm) Calib End Date: 04/10/2014 20:03

Lab File ID: G29936.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloropropane	Ave	0.3310	0.3362	0.1000	25.4	25.0	1.6	20.0
Dibromomethane	Ave	0.1556	0.1607	0.1000	25.8	25.0	3.3	20.0
1,4-Dioxane	Ave	0.0080	0.0087		546	500	9.1	20.0
Bromodichloromethane	Ave	0.2989	0.3361	0.2000	28.1	25.0	12.5	20.0
2-Chloroethyl vinyl ether	Ave	0.2383	0.2489		26.1	25.0	4.4	20.0
cis-1,3-Dichloropropene	Ave	0.3805	0.4358	0.2000	28.6	25.0	14.5	20.0
4-Methyl-2-pentanone (MIBK)	Ave	1.250	1.292	0.1000	129	125	3.4	20.0
Toluene	Ave	1.698	1.757	0.4000	25.9	25.0	3.4	20.0
trans-1,3-Dichloropropene	Ave	0.7640	0.8876	0.1000	29.0	25.0	16.2	20.0
Ethyl methacrylate	Ave	0.9031	0.9809		27.2	25.0	8.6	20.0
1,1,2-Trichloroethane	Ave	0.4828	0.4837	0.1000	25.0	25.0	0.2	20.0
Tetrachloroethene	Ave	0.5855	0.6195	0.2000	26.5	25.0	5.8	20.0
1,3-Dichloropropane	Ave	1.084	1.133		26.1	25.0	4.5	20.0
2-Hexanone	Ave	0.8806	0.9194	0.1000	130	125	4.4	20.0
Dibromochloromethane	Lin1		0.5579	0.1000	24.6	24.5	0.4	20.0
1,2-Dibromoethane	Ave	0.5879	0.6150		26.2	25.0	4.6	20.0
Chlorobenzene	Ave	1.829	1.896	0.5000	25.9	25.0	3.7	20.0
1,1,1,2-Tetrachloroethane	Ave	0.4542	0.5466		30.1	25.0	20.4*	20.0
Ethylbenzene	Ave	3.125	3.256	0.1000	26.1	25.0	4.2	20.0
m,p-Xylene	Ave	1.230	1.325	0.1000	26.9	25.0	7.7	20.0
o-Xylene	Ave	1.170	1.254	0.3000	26.8	25.0	7.2	20.0
Styrene	Ave	2.048	2.196	0.3000	26.8	25.0	7.2	20.0
Bromoform	Lin		0.2704	0.1000	23.8	25.0	-4.7	20.0
Isopropylbenzene	Ave	3.601	3.880	0.1000	26.9	25.0	7.8	20.0
Bromobenzene	Ave	0.8104	0.8379		25.8	25.0	3.4	20.0
1,1,2,2-Tetrachloroethane	Ave	0.9290	0.9792	0.3000	26.4	25.0	5.4	20.0
1,2,3-Trichloropropane	Ave	0.3265	0.3432		26.3	25.0	5.1	20.0
trans-1,4-Dichloro-2-butene	Ave	0.3965	0.4309		27.2	25.0	8.7	20.0
N-Propylbenzene	Ave	4.242	4.522		26.6	25.0	6.6	20.0
2-Chlorotoluene	Ave	0.8537	0.9005		26.4	25.0	5.5	20.0
1,3,5-Trimethylbenzene	Ave	3.096	3.344		27.0	25.0	8.0	20.0
4-Chlorotoluene	Ave	0.8877	0.9193		25.9	25.0	3.6	20.0
tert-Butylbenzene	Ave	0.6715	0.7286		27.1	25.0	8.5	20.0
1,2,4-Trimethylbenzene	Ave	3.195	3.482		27.2	25.0	9.0	20.0
sec-Butylbenzene	Ave	3.951	4.266		27.0	25.0	8.0	20.0
1,3-Dichlorobenzene	Ave	1.635	1.744	0.6000	26.7	25.0	6.6	20.0
4-Isopropyltoluene	Ave	3.414	3.762		27.5	25.0	10.2	20.0
1,4-Dichlorobenzene	Ave	1.700	1.779	0.5000	26.2	25.0	4.6	20.0
n-Butylbenzene	Ave	3.075	3.380		27.5	25.0	9.9	20.0
1,2-Dichlorobenzene	Ave	1.602	1.697	0.4000	26.5	25.0	5.9	20.0
1,2-Dibromo-3-Chloropropane	Lin1		0.1973	0.0500	23.2	25.0	-7.3	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1

SDG No.:

Lab Sample ID: CCVIS 480-179119/3 Calibration Date: 04/30/2014 11:41

Instrument ID: HP5973G Calib Start Date: 04/10/2014 17:45

GC Column: ZB-624 (60) ID: 0.25(mm) Calib End Date: 04/10/2014 20:03

Lab File ID: G29936.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
1,2,4-Trichlorobenzene	Ave	1.076	1.142	0.2000	26.5	25.0	6.1	20.0
Hexachlorobutadiene	Ave	0.4482	0.4640		25.9	25.0	3.5	20.0
Naphthalene	Ave	3.776	3.905		25.9	25.0	3.4	20.0
1,2,3-Trichlorobenzene	Ave	1.063	1.105		26.0	25.0	3.9	20.0
Dibromofluoromethane (Surr)	Ave	0.2135	0.2424		28.4	25.0	13.6	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.1625	0.1839		28.3	25.0	13.2	20.0
Toluene-d8 (Surr)	Ave	2.326	2.610		28.0	25.0	12.2	20.0
4-Bromofluorobenzene (Surr)	Ave	0.5706	0.6447		28.2	25.0	13.0	20.0

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973G\20140430-31607.b\G29936.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 30-Apr-2014 11:41:30 ALS Bottle#: 33 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: CCVIS
Misc. Info.: 480-0031607-003 =480-0031607-003
Operator ID: NQ Instrument ID: HP5973G
Sublist: chrom-G-8260*sub20

Method: \\Bufchrom\ChromData\HP5973G\20140430-31607.b\G-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 30-Apr-2014 12:01:05 Calib Date: 10-Apr-2014 23:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5973G\20140410-30960.b\G29156.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK026

First Level Reviewer: nguyendudziaknq Date: 30-Apr-2014 12:01:05

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	96	5.620	5.620	0.000	98	475911	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.620	8.620	0.000	88	198024	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.985	10.985	0.000	81	171875	25.0	25.0	
$ 148 Dibromofluoromethane (Surr	113	5.023	5.023	0.000	78	115382	25.0	28.4	
$ 4 1,2-Dichloroethane-d4 (Sur	67	5.328	5.328	0.000	0	87535	25.0	28.3	
$ 5 Toluene-d8 (Surr)	98	7.132	7.132	0.000	92	516757	25.0	28.0	
$ 6 4-Bromofluorobenzene (Surr	174	9.857	9.857	0.000	81	127668	25.0	28.2	
10 Dichlorodifluoromethane	85	1.438	1.438	0.000	87	166569	25.0	23.4	
12 Chloromethane	50	1.591	1.591	0.000	89	335014	25.0	26.3	
13 Vinyl chloride	62	1.707	1.707	0.000	82	243392	25.0	27.0	
144 Butadiene	54	1.737	1.737	0.000	90	277461	25.0	25.7	
14 Bromomethane	94	2.030	2.030	0.000	90	80329	25.0	26.5	
15 Chloroethane	64	2.139	2.139	0.000	92	111840	25.0	23.2	
16 Dichlorofluoromethane	67	2.359	2.359	0.000	97	178586	25.0	23.9	
17 Trichlorofluoromethane	101	2.371	2.371	0.000	82	185316	25.0	26.6	
18 Ethyl ether	59	2.633	2.633	0.000	97	168255	25.0	25.7	
19 Acrolein	56	2.798	2.798	0.000	95	147507	125.0	102.9	M
21 1,1,2-Trichloro-1,2,2-trif	101	2.883	2.883	0.000	42	128311	25.0	21.9	
20 1,1-Dichloroethene	96	2.889	2.889	0.000	84	167689	25.0	25.6	
22 Acetone	43	2.956	2.956	0.000	99	359158	125.0	120.8	
23 Iodomethane	142	3.054	3.054	0.000	96	229134	25.0	27.3	
24 Carbon disulfide	76	3.090	3.090	0.000	100	433179	25.0	27.1	
26 3-Chloro-1-propene	41	3.212	3.212	0.000	85	344135	25.0	26.2	
28 Methyl acetate	43	3.255	3.255	0.000	98	1077066	125.0	130.8	
29 Methylene Chloride	84	3.407	3.407	0.000	86	164316	25.0	22.6	
30 2-Methyl-2-propanol	59	3.517	3.517	0.000	97	235421	250.0	240.8	
31 Methyl tert-butyl ether	73	3.584	3.584	0.000	91	443455	25.0	26.5	
32 trans-1,2-Dichloroethene	96	3.596	3.596	0.000	91	136057	25.0	25.2	
33 Acrylonitrile	53	3.621	3.621	0.000	97	1051023	250.0	252.1	
34 Hexane	57	3.810	3.810	0.000	95	241805	25.0	20.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
36 1,1-Dichloroethane	63	4.005	4.005	0.000	85	285586	25.0	26.8	
38 Vinyl acetate	43	4.060	4.060	0.000	96	770021	50.0	46.9	
42 2,2-Dichloropropane	77	4.535	4.535	0.000	86	86907	25.0	28.7	
43 cis-1,2-Dichloroethene	96	4.560	4.560	0.000	73	140893	25.0	26.1	
44 2-Butanone (MEK)	43	4.584	4.584	0.000	97	633117	125.0	124.5	
48 Chlorobromomethane	128	4.791	4.791	0.000	83	65904	25.0	25.6	
49 Tetrahydrofuran	42	4.828	4.828	0.000	94	180486	50.0	48.1	
50 Chloroform	85	4.871	4.871	0.000	83	143522	25.0	25.6	
51 1,1,1-Trichloroethane	97	4.999	4.999	0.000	96	153347	25.0	27.7	
52 Cyclohexane	56	5.023	5.023	0.000	91	362233	25.0	22.1	
53 Carbon tetrachloride	117	5.145	5.145	0.000	80	138353	25.0	28.4	
54 1,1-Dichloropropene	75	5.151	5.151	0.000	90	171465	25.0	26.0	
55 Isobutyl alcohol	43	5.334	5.334	0.000	96	349323	625.0	571.7	
56 Benzene	78	5.352	5.352	0.000	95	520537	25.0	25.4	
57 1,2-Dichloroethane	62	5.401	5.401	0.000	86	223992	25.0	26.2	
59 n-Heptane	43	5.553	5.553	0.000	95	304168	25.0	22.0	
61 Trichloroethene	95	5.962	5.962	0.000	92	130794	25.0	25.4	
62 Methylcyclohexane	83	6.102	6.102	0.000	94	205709	25.0	21.2	
63 1,2-Dichloropropane	63	6.193	6.193	0.000	92	159981	25.0	25.4	
65 Dibromomethane	93	6.322	6.322	0.000	89	76456	25.0	25.8	
66 1,4-Dioxane	88	6.340	6.340	0.000	90	34473	500.0	545.7	
67 Dichlorobromomethane	83	6.474	6.474	0.000	92	159970	25.0	28.1	
70 2-Chloroethyl vinyl ether	63	6.754	6.754	0.000	87	118439	25.0	26.1	
72 cis-1,3-Dichloropropene	75	6.901	6.901	0.000	86	207389	25.0	28.6	
73 4-Methyl-2-pentanone (MIBK	43	7.035	7.035	0.000	98	1279516	125.0	129.3	
74 Toluene	92	7.199	7.199	0.000	98	347874	25.0	25.9	
76 trans-1,3-Dichloropropene	75	7.462	7.462	0.000	93	175766	25.0	29.0	
78 Ethyl methacrylate	69	7.510	7.510	0.000	93	194243	25.0	27.2	
79 1,1,2-Trichloroethane	83	7.651	7.651	0.000	87	95793	25.0	25.0	
80 Tetrachloroethene	166	7.742	7.742	0.000	88	122673	25.0	26.5	
81 1,3-Dichloropropane	76	7.809	7.809	0.000	96	224290	25.0	26.1	
82 2-Hexanone	43	7.876	7.876	0.000	99	910296	125.0	130.5	
83 Chlorodibromomethane	129	8.053	8.053	0.000	89	108267	24.5	24.6	
84 Ethylene Dibromide	107	8.157	8.157	0.000	99	121784	25.0	26.2	
86 Chlorobenzene	112	8.644	8.644	0.000	91	375407	25.0	25.9	
88 1,1,1,2-Tetrachloroethane	131	8.742	8.742	0.000	86	108245	25.0	30.1	
89 Ethylbenzene	91	8.742	8.742	0.000	98	644740	25.0	26.1	
90 m-Xylene & p-Xylene	106	8.864	8.864	0.000	0	262313	25.0	26.9	
91 o-Xylene	106	9.290	9.290	0.000	98	248270	25.0	26.8	
92 Styrene	104	9.315	9.315	0.000	94	434781	25.0	26.8	
93 Bromoform	173	9.553	9.553	0.000	95	53537	25.0	23.8	
95 Isopropylbenzene	105	9.675	9.675	0.000	96	666951	25.0	26.9	
97 Bromobenzene	156	10.010	10.010	0.000	98	144020	25.0	25.8	
98 1,1,2,2-Tetrachloroethane	83	10.040	10.040	0.000	87	168307	25.0	26.4	
99 1,2,3-Trichloropropane	110	10.077	10.077	0.000	77	58981	25.0	26.3	
100 trans-1,4-Dichloro-2-buten	53	10.089	10.089	0.000	58	74062	25.0	27.2	
101 N-Propylbenzene	91	10.095	10.095	0.000	97	777267	25.0	26.6	
102 2-Chlorotoluene	126	10.193	10.193	0.000	96	154776	25.0	26.4	
104 1,3,5-Trimethylbenzene	105	10.266	10.266	0.000	93	574812	25.0	27.0	
105 4-Chlorotoluene	126	10.302	10.302	0.000	97	157998	25.0	25.9	
106 tert-Butylbenzene	134	10.583	10.583	0.000	94	125233	25.0	27.1	
107 1,2,4-Trimethylbenzene	105	10.638	10.638	0.000	98	598402	25.0	27.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	10.796	10.796	0.000	94	733302	25.0	27.0	
110 1,3-Dichlorobenzene	146	10.924	10.924	0.000	95	299707	25.0	26.7	
111 4-Isopropyltoluene	119	10.930	10.930	0.000	97	646559	25.0	27.5	
113 1,4-Dichlorobenzene	146	11.010	11.010	0.000	92	305736	25.0	26.2	
115 n-Butylbenzene	91	11.314	11.314	0.000	97	580887	25.0	27.5	
116 1,2-Dichlorobenzene	146	11.357	11.357	0.000	94	291606	25.0	26.5	
117 1,2-Dibromo-3-Chloropropan	75	12.076	12.076	0.000	70	33911	25.0	23.2	
119 1,2,4-Trichlorobenzene	180	12.765	12.765	0.000	93	196231	25.0	26.5	
120 Hexachlorobutadiene	225	12.881	12.881	0.000	94	79754	25.0	25.9	
121 Naphthalene	128	12.973	12.973	0.000	97	671102	25.0	25.9	
122 1,2,3-Trichlorobenzene	180	13.180	13.180	0.000	94	189934	25.0	26.0	
S 125 1,2-Dichloroethene, Total	1				0			51.2	
S 126 1,3-Dichloropropene, Total	1				0			57.7	
S 123 Total BTEX	1				0			131.1	
S 124 Xylenes, Total	1				0			53.7	

QC Flag Legend

Review Flags
M - Manually Integrated

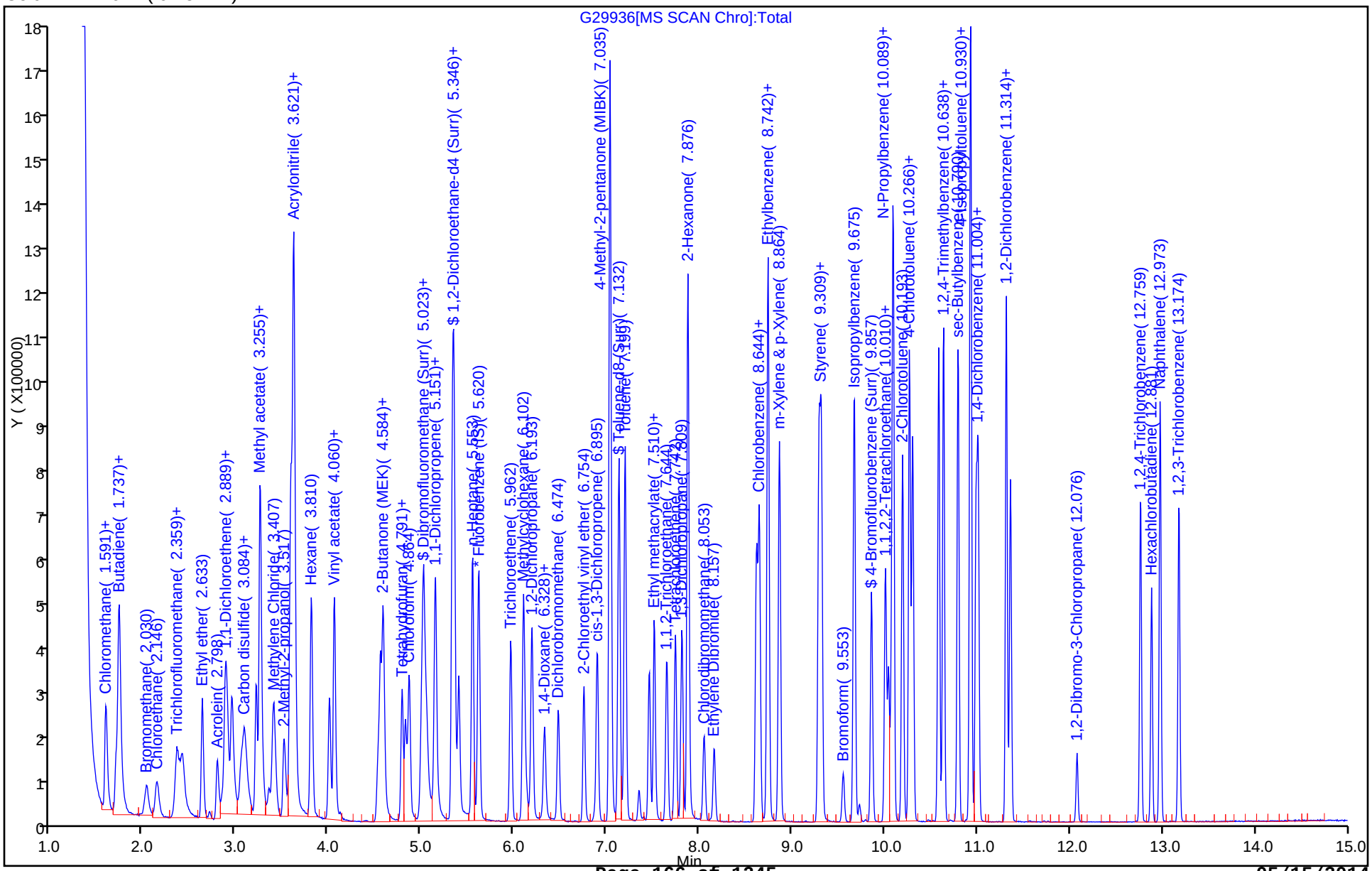
Report Date: 30-Apr-2014 12:01:06 Chrom Revision: 2.2 14-Apr-2014 13:40:08

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973G\20140430-31607.b\G29936.D

Injection Date:	30-Apr-2014 11:41:30	Instrument ID:	HP5973G	Operator ID:	NQ
Lims ID:	CCVIS			Worklist Smp#:	3
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	33
Method:	G-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



Manual Integration/User Assign Peak Report

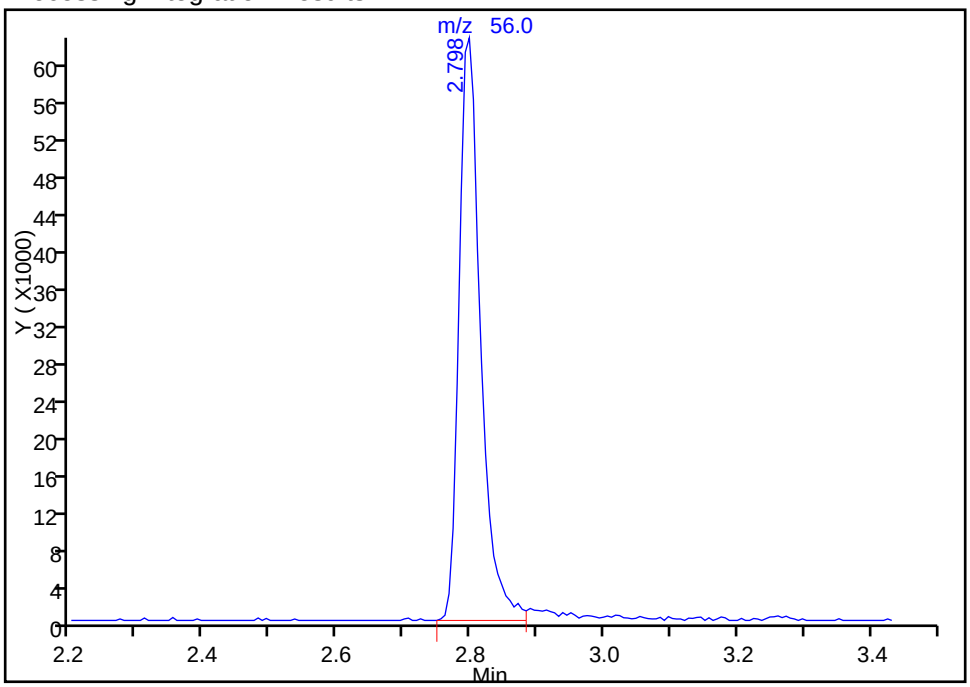
TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973G\20140430-31607.b\G29936.D
Injection Date: 30-Apr-2014 11:41:30 Instrument ID: HP5973G
Lims ID: CCVIS
Client ID:
Operator ID: NQ ALS Bottle#: 33 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: G-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

19 Acrolein, CAS: 107-02-8

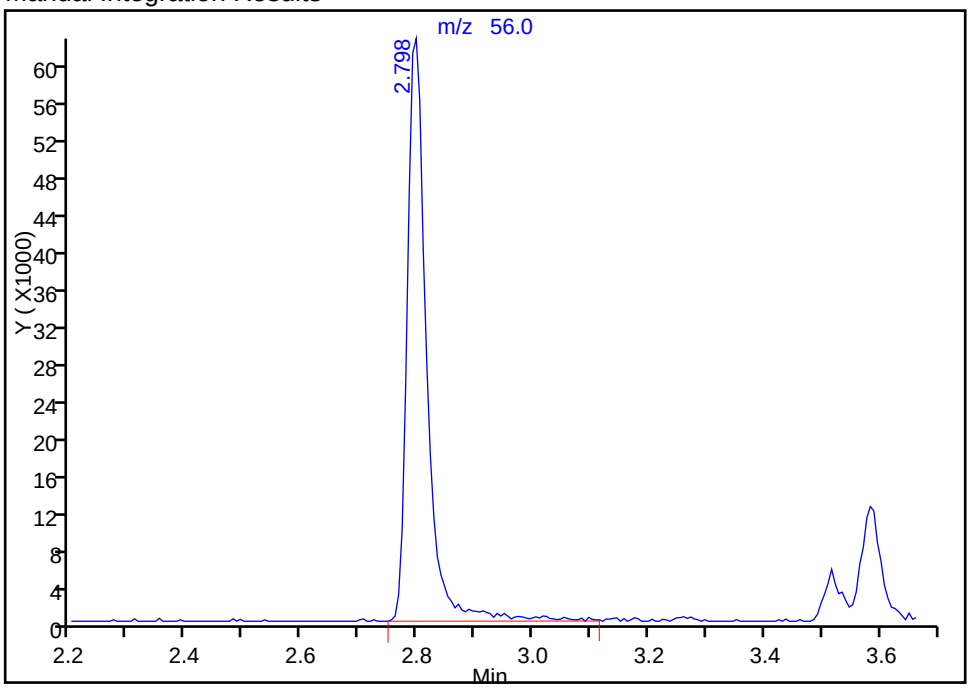
Processing Integration Results

RT: 2.80
Response: 141035
Amount: 98.368762



Manual Integration Results

RT: 2.80
Response: 147507
Amount: 102.8828



Reviewer: nguyendudziaknq, 30-Apr-2014 12:01:05
Audit Action: Manually Integrated
Audit Reason: Peak Tail

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973G\20140410-30960.b\G29138.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 10-Apr-2014 16:49:30 ALS Bottle#: 25 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: BFB
Misc. Info.: 480-0030960-002 =480-0030960-002
Operator ID: RAL Instrument ID: HP5973G

Method: \\Bufchrom\ChromData\HP5973G\20140410-30960.b\G-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 10-Apr-2014 17:05:36 Calib Date: 01-Apr-2014 17:50:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5973G\20140401-30645.b\G28822.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK030

First Level Reviewer: larsonr Date: 10-Apr-2014 17:05:36

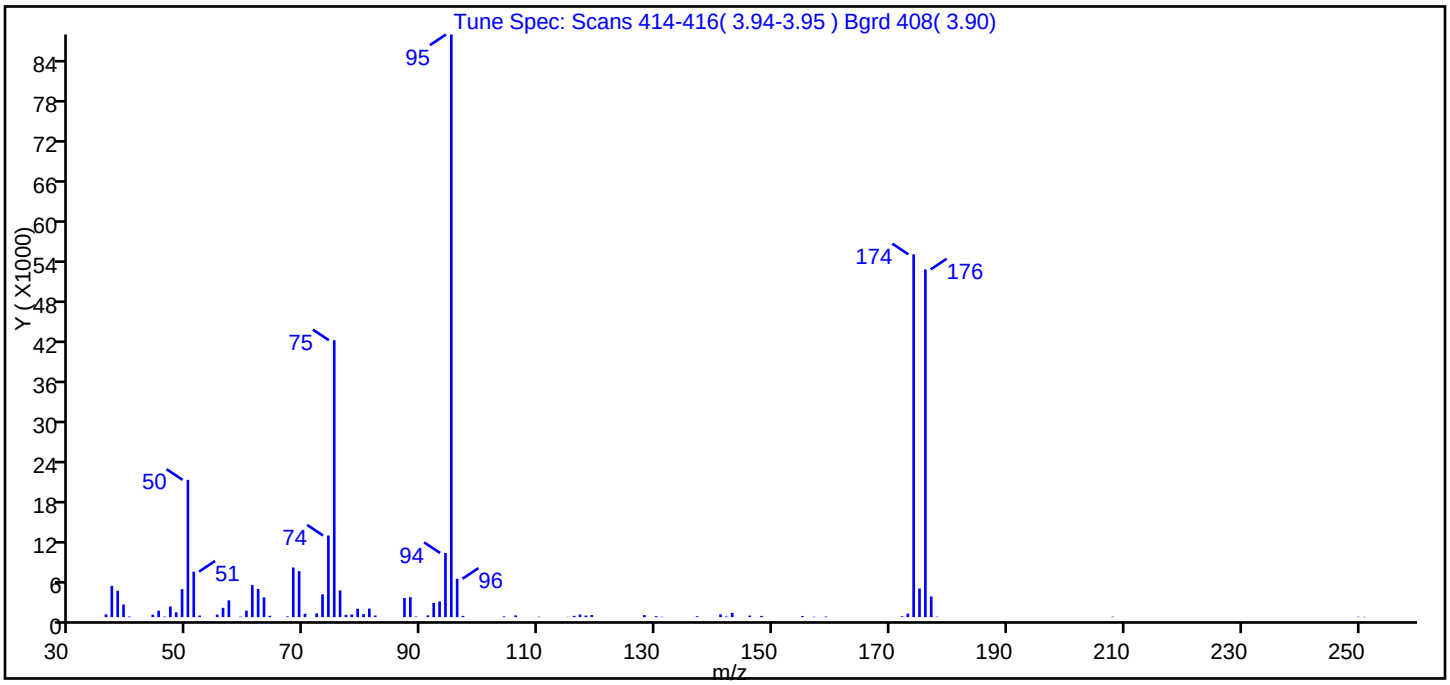
Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/L	Flags
$ 35 BFB	95	3.942	3.942	0.0	0	192954	NR	

MS Tune Report

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973G\20140410-30960.b\G29138.D
Injection Date: 10-Apr-2014 16:49:30 Instrument ID: HP5973G
Lims ID: BFB
Client ID:
Operator ID: RAL ALS Bottle#: 25 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: G-8260 Limit Group: MV - 8260C ICAL
Tune Method: BFB Method 8260

$ 35 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	23.60
75	30.00 - 60.00% of mass 95	47.50
96	5.00 - 9.00% of mass 95	6.60
173	Less than 2.00% of mass 174	0.60 (1.00)
174	50.00 - 120.00% of mass 95	62.30
175	5.00 - 9.00% of mass 174	4.90 (7.90)
176	95.00 - 101.00% of mass 174	59.70 (95.80)
177	5.00 - 9.00% of mass 176	3.50 (5.90)

Data File: \\Bufchrom\ChromData\HP5973G\20140410-30960.b\G29138.D\G-8260.rslt\spectra.d
Injection Date: 10-Apr-2014 16:49:30
Spectrum: Tune Spec: Scans 414-416(3.94-3.95) Bgrd 408(3.90)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 78

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	415	62.00	4215	89.00	86	141.00	419
37.00	4674	63.00	2959	91.00	269	142.00	99
38.00	3938	64.00	202	92.00	2116	143.00	632
39.00	1888	67.00	114	93.00	2348	146.00	235
40.00	95	68.00	7419	94.00	9581	148.00	185
44.00	358	69.00	6873	95.00	87056	155.00	177
45.00	965	70.00	492	96.00	5735	157.00	58
46.00	85	72.00	567	97.00	187	159.00	97
47.00	1597	73.00	3409	104.00	113	172.00	123
48.00	725	74.00	12196	106.00	257	173.00	523
49.00	4180	75.00	41368	110.00	67	174.00	54208
50.00	20512	76.00	3998	115.00	55	175.00	4277
51.00	6801	77.00	348	116.00	196	176.00	51952
52.00	235	78.00	396	117.00	391	177.00	3090
55.00	384	79.00	1256	118.00	236	178.00	67
56.00	1388	80.00	453	119.00	316	208.00	65
57.00	2513	81.00	1277	128.00	317	250.00	61
59.00	76	82.00	247	130.00	156	251.00	51
60.00	961	87.00	2853	131.00	53		
61.00	4789	88.00	2985	137.00	139		

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973G\20140430-31607.b\G29935.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 30-Apr-2014 09:52:30 ALS Bottle#: 32 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: BFB
Misc. Info.: 480-0031607-002 =480-0031607-002
Operator ID: NQ Instrument ID: HP5973G

Method: \\Bufchrom\ChromData\HP5973G\20140430-31607.b\G-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 30-Apr-2014 10:03:45 Calib Date: 10-Apr-2014 23:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5973G\20140410-30960.b\G29156.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK026

First Level Reviewer: nguyendudziaknq Date: 30-Apr-2014 10:03:45

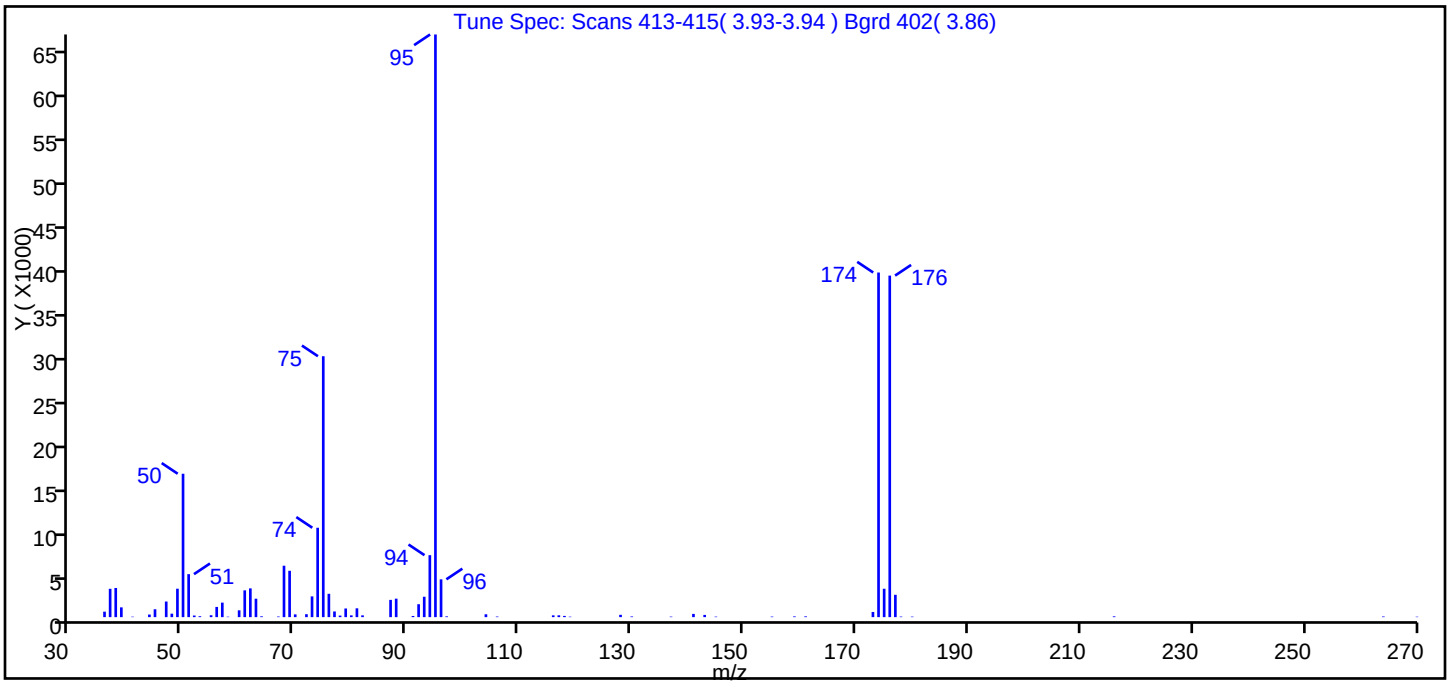
Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
$ 35 BFB	95	3.936	3.936	0.000	0	149584	NR	NR	

MS Tune Report

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973G\20140430-31607.b\G29935.D
Injection Date: 30-Apr-2014 09:52:30 Instrument ID: HP5973G
Lims ID: BFB
Client ID:
Operator ID: NQ ALS Bottle#: 32 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: G-8260 Limit Group: MV - 8260C ICAL
Tune Method: BFB Method 8260

$ 35 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	24.60
75	30.00 - 60.00% of mass 95	44.80
96	5.00 - 9.00% of mass 95	6.50
173	Less than 2.00% of mass 174	0.90 (1.50)
174	50.00 - 120.00% of mass 95	59.10
175	5.00 - 9.00% of mass 174	4.90 (8.20)
176	95.00 - 101.00% of mass 174	58.60 (99.10)
177	5.00 - 9.00% of mass 176	3.80 (6.50)

Data File: \\Bufchrom\ChromData\HP5973G\20140430-31607.b\G29935.D\G-8260.rslt\spectra.d
Injection Date: 30-Apr-2014 09:52:30
Spectrum: Tune Spec: Scans 413-415(3.93-3.94) Bgrd 402(3.86)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 72

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	624	60.00	778	81.00	1006	130.00	78
37.00	3228	61.00	3053	82.00	204	137.00	60
38.00	3323	62.00	3276	87.00	1966	141.00	370
39.00	1115	63.00	2100	88.00	2105	143.00	254
41.00	52	64.00	92	91.00	133	145.00	59
44.00	296	67.00	69	92.00	1474	155.00	64
45.00	899	68.00	5858	93.00	2325	159.00	82
47.00	1780	69.00	5281	94.00	7061	161.00	87
48.00	396	70.00	315	95.00	66384	173.00	590
49.00	3240	72.00	336	96.00	4309	174.00	39264
50.00	16338	73.00	2363	97.00	88	175.00	3234
51.00	4898	74.00	10184	104.00	326	176.00	38912
52.00	184	75.00	29728	106.00	68	177.00	2546
53.00	103	76.00	2659	116.00	204	178.00	64
55.00	215	77.00	648	117.00	210	180.00	59
56.00	1164	78.00	177	118.00	140	216.00	89
57.00	1655	79.00	987	119.00	54	264.00	73
58.00	52	80.00	202	128.00	264	270.00	50

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-58807-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 480-179119/7

Matrix: Solid | Lab File ID: G29940.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 04/30/2014 13:25

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.: 179119 | Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-35-4	1,1-Dichloroethene	ND		0.0010	0.00029
107-06-2	1,2-Dichloroethane	ND		0.0010	0.00021
78-93-3	2-Butanone (MEK)	ND		0.0050	0.0013
71-43-2	Benzene	ND		0.0010	0.00041
56-23-5	Carbon tetrachloride	ND		0.0010	0.00027
108-90-7	Chlorobenzene	ND		0.0010	0.00075
67-66-3	Chloroform	ND		0.0010	0.00034
127-18-4	Tetrachloroethene	ND		0.0010	0.00036
79-01-6	Trichloroethene	ND		0.0010	0.00046
75-01-4	Vinyl chloride	ND		0.0010	0.00090

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		66-137
460-00-4	4-Bromofluorobenzene (Surr)	101		73-120
2037-26-5	Toluene-d8 (Surr)	100		71-126

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973G\20140430-31607.b\G29940.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 30-Apr-2014 13:25:30 ALS Bottle#: 37 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: MB
Misc. Info.: 480-0031607-007 =480-0031607-007
Operator ID: NQ Instrument ID: HP5973G

Method: \\Bufchrom\ChromData\HP5973G\20140430-31607.b\G-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 30-Apr-2014 13:47:27 Calib Date: 10-Apr-2014 23:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5973G\20140410-30960.b\G29156.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK026

First Level Reviewer: nguyendudziaknq Date: 30-Apr-2014 13:47:27

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	96	5.620	5.620	0.000	98	520831	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.620	8.620	0.000	87	214095	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.985	10.985	0.000	97	189145	25.0	25.0	
$ 148 Dibromofluoromethane (Surr	113	5.023	5.023	0.000	63	112754	25.0	25.3	
$ 4 1,2-Dichloroethane-d4 (Sur	67	5.334	5.334	0.000	0	84637	25.0	25.0	
$ 5 Toluene-d8 (Surr)	98	7.132	7.132	0.000	94	498204	25.0	25.0	
$ 6 4-Bromofluorobenzene (Surr	174	9.863	9.857	0.006	83	122767	25.0	25.1	
10 Dichlorodifluoromethane	85		1.438						
11 Chlorodifluoromethane	51		1.469						
12 Chloromethane	50		1.591						
13 Vinyl chloride	62		1.707						
144 Butadiene	54		1.737						
14 Bromomethane	94		2.030						
15 Chloroethane	64		2.139						
16 Dichlorofluoromethane	67		2.359						
17 Trichlorofluoromethane	101		2.371						
141 Ethanol	45		2.615						
18 Ethyl ether	59		2.633						
68 Propene oxide	58		2.712						
19 Acrolein	56		2.798						
21 1,1,2-Trichloro-1,2,2-trif	101		2.883						
20 1,1-Dichloroethene	96		2.889						
22 Acetone	43		2.956						
23 Iodomethane	142		3.054						
24 Carbon disulfide	76		3.090						
25 Isopropyl alcohol	45		3.133						
26 3-Chloro-1-propene	41		3.212						
27 Acetonitrile	40		3.249						
28 Methyl acetate	43		3.255						
29 Methylene Chloride	84		3.407						
30 2-Methyl-2-propanol	59		3.517						

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
31 Methyl tert-butyl ether	73		3.584						
32 trans-1,2-Dichloroethene	96		3.596						
33 Acrylonitrile	53		3.621						
34 Hexane	57		3.810						
36 1,1-Dichloroethane	63		4.005						
37 Isopropyl ether	45		4.035						
38 Vinyl acetate	43		4.060						
39 2-Chloro-1,3-butadiene	53		4.078						
40 1,1-Dimethoxyethane	75		4.102						
41 Tert-butyl ethyl ether	59		4.377						
42 2,2-Dichloropropane	77		4.535						
43 cis-1,2-Dichloroethene	96		4.560						
44 2-Butanone (MEK)	43		4.584						
45 Ethyl acetate	43		4.627						
46 Propionitrile	54		4.669						
47 Methacrylonitrile	41		4.791						
48 Chlorobromomethane	128		4.791						
49 Tetrahydrofuran	42		4.828						
50 Chloroform	85		4.871						
51 1,1,1-Trichloroethane	97		4.999						
52 Cyclohexane	56		5.023						
53 Carbon tetrachloride	117		5.145						
54 1,1-Dichloropropene	75		5.151						
55 Isobutyl alcohol	43		5.334						
56 Benzene	78		5.352						
140 t-Amyl alcohol	59		5.395						
146 Isooctane	57		5.401						
57 1,2-Dichloroethane	62		5.401						
58 Tert-amyl methyl ether	73		5.431						
59 n-Heptane	43		5.553						
1 1,4-Difluorobenzene	114		5.724						
60 n-Butanol	56		5.956						
61 Trichloroethene	95		5.962						
145 Ethyl acrylate	55		6.071						
62 Methylcyclohexane	83		6.102						
63 1,2-Dichloropropane	63		6.193						
64 Methyl methacrylate	41		6.291						
65 Dibromomethane	93		6.322						
66 1,4-Dioxane	88		6.340						
67 Dichlorobromomethane	83		6.474						
69 2-Nitropropane	43		6.712						
70 2-Chloroethyl vinyl ether	63		6.754						
71 Epichlorohydrin	57		6.840						
72 cis-1,3-Dichloropropene	75		6.901						
73 4-Methyl-2-pentanone (MIBK	43		7.035						
74 Toluene	92		7.199						
75 2-Methylthiophene	97		7.333						
76 trans-1,3-Dichloropropene	75		7.462						
77 3-Methylthiophene	97		7.498						
78 Ethyl methacrylate	69		7.510						
79 1,1,2-Trichloroethane	83		7.651						
80 Tetrachloroethene	166		7.742						

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
81 1,3-Dichloropropane	76		7.809						
82 2-Hexanone	43		7.876						
83 Chlorodibromomethane	129		8.053						
84 Ethylene Dibromide	107		8.157						
139 1-Chlorohexane	55		8.595						
85 3-Chlorobenzotrifluoride	180		8.614						
86 Chlorobenzene	112		8.644						
87 4-Chlorobenzotrifluoride	180		8.675						
88 1,1,1,2-Tetrachloroethane	131		8.742						
89 Ethylbenzene	91		8.742						
90 m-Xylene & p-Xylene	106		8.864						
91 o-Xylene	106		9.290						
92 Styrene	104		9.315						
93 Bromoform	173		9.553						
94 2-Chlorobenzotrifluoride	180		9.583						
95 Isopropylbenzene	105		9.675						
96 Cyclohexanone	55		9.821						
97 Bromobenzene	156		10.010						
98 1,1,2,2-Tetrachloroethane	83		10.040						
99 1,2,3-Trichloropropane	110		10.077						
100 trans-1,4-Dichloro-2-buten	53		10.089						
101 N-Propylbenzene	91		10.095						
102 2-Chlorotoluene	126		10.193						
103 3-Chlorotoluene	126		10.254						
104 1,3,5-Trimethylbenzene	105		10.266						
105 4-Chlorotoluene	126		10.302						
106 tert-Butylbenzene	134		10.583						
108 Pentachloroethane	167		10.632						
107 1,2,4-Trimethylbenzene	105		10.638						
109 sec-Butylbenzene	105		10.796						
112 Dicyclopentadiene	66		10.863						
110 1,3-Dichlorobenzene	146		10.924						
111 4-Isopropyltoluene	119		10.930						
113 1,4-Dichlorobenzene	146		11.010						
114 1,2,3-Trimethylbenzene	105		11.040						
143 Benzyl chloride	126		11.150						
115 n-Butylbenzene	91		11.314						
116 1,2-Dichlorobenzene	146		11.357						
117 1,2-Dibromo-3-Chloropropan	75		12.076						
118 1,3,5-Trichlorobenzene	180		12.229						
119 1,2,4-Trichlorobenzene	180		12.765						
120 Hexachlorobutadiene	225		12.881						
121 Naphthalene	128		12.973						
122 1,2,3-Trichlorobenzene	180		13.180						
142 2-Methylnaphthalene	142		13.887						
138 Pentachloroethane TIC	1		0.000						
135 Halothane	1		0.000						
136 1-Bromopropane TIC	1		0.000						
134 Propene oxide TIC	1		0.000						
137 Ethylene oxide TIC	1		0.000						
S 125 1,2-Dichloroethene, Total	1		30.000						
S 126 1,3-Dichloropropene, Total	1		30.000						

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
S 123 Total BTEX	1		30.000						
S 124 Xylenes, Total	1		30.000						
T 130 Aziridine TIC	1		0.000						
T 128 Hexachloroethane TIC	1		0.000						
T 131 bis(chloromethyl)ether TIC	1		0.000						
T 133 1-Bromopropane	1		0.000						
T 132 Bromoethane TIC	1		0.000						
T 129 tert-amyl alcohol TIC	1		0.000						
T 8 bis(2-chloromethyl)ether T	1		0.000						
T 127 Ethanol TIC	45		0.000						
T 9 Ethylene oxide	1		0.000						

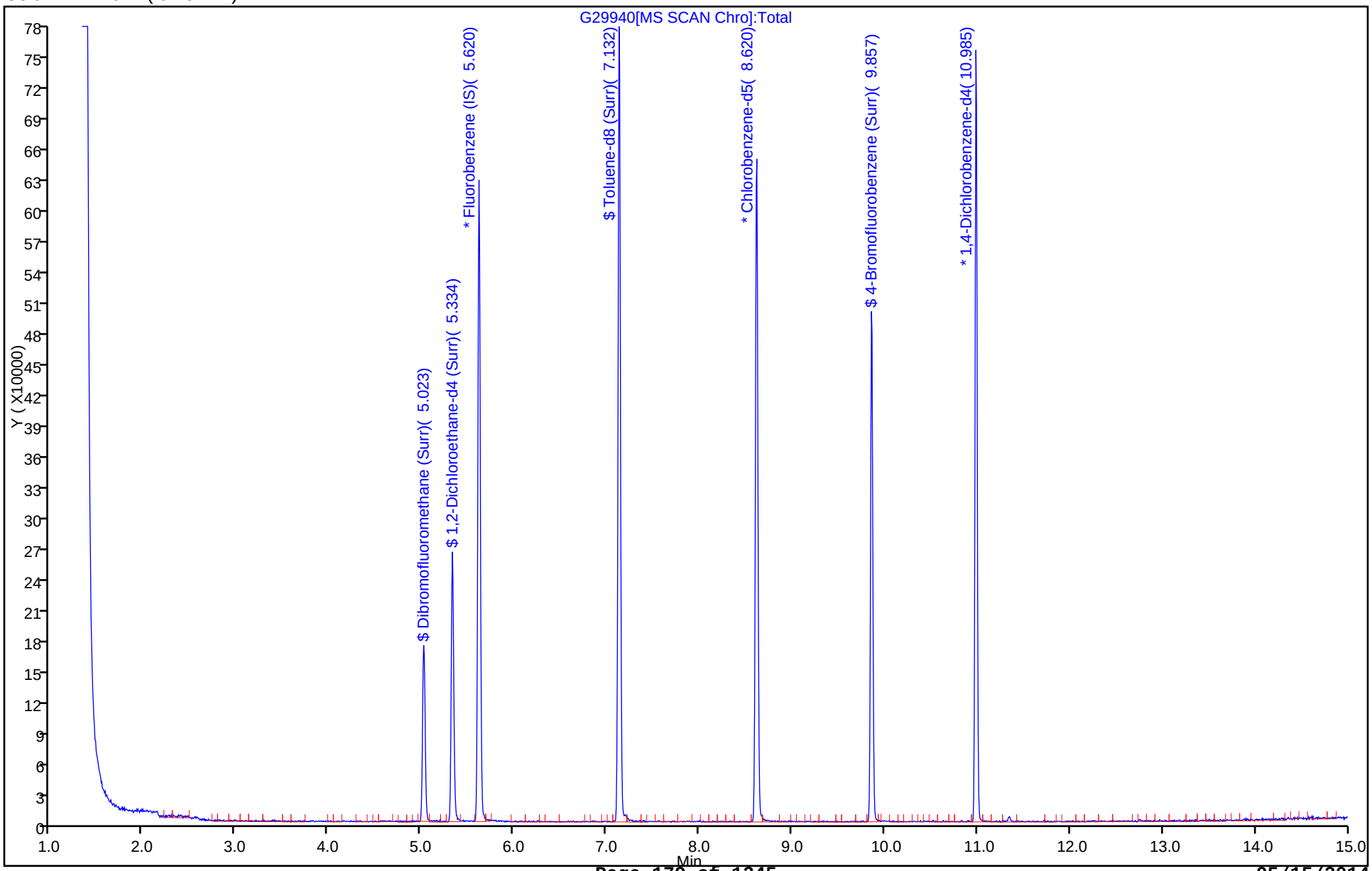
Report Date: 30-Apr-2014 13:47:28 Chrom Revision: 2.2 14-Apr-2014 13:40:08

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973G\20140430-31607.b\G29940.D

Injection Date:	30-Apr-2014 13:25:30	Instrument ID:	HP5973G	Operator ID:	NQ
Lims ID:	MB			Worklist Smp#:	7
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	37
Method:	G-8260	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.: 480-58807-1

SDG No.:

Client Sample ID: | Lab Sample ID: LB 480-178952/1-A

Matrix: Solid (TCLP) | Lab File ID: G29949.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 04/30/2014 16:50

Soil Aliquot Vol: | Dilution Factor: 10

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

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

Analysis Batch No.: 179119 | Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-35-4	1,1-Dichloroethene	ND		0.010	0.0029
107-06-2	1,2-Dichloroethane	ND		0.010	0.0021
78-93-3	2-Butanone (MEK)	ND		0.050	0.013
71-43-2	Benzene	ND		0.010	0.0041
56-23-5	Carbon tetrachloride	ND		0.010	0.0027
108-90-7	Chlorobenzene	ND		0.010	0.0075
67-66-3	Chloroform	ND		0.010	0.0034
127-18-4	Tetrachloroethene	ND		0.010	0.0036
79-01-6	Trichloroethene	ND		0.010	0.0046
75-01-4	Vinyl chloride	ND		0.010	0.0090

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	98		66-137
460-00-4	4-Bromofluorobenzene (Surr)	104		73-120
2037-26-5	Toluene-d8 (Surr)	98		71-126

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973G\20140430-31607.b\G29949.D
Lims ID: LB 480-178952/1-A
Client ID:
Sample Type: LB
Inject. Date: 30-Apr-2014 16:50:30 ALS Bottle#: 46 Worklist Smp#: 24
Purge Vol: 5.000 mL Dil. Factor: 10.0000
Sample Info: LB 480-178952/1-A
Misc. Info.: 480-0031607-024 =480-0031607-024
Operator ID: NQ Instrument ID: HP5973G

Method: \\Bufchrom\ChromData\HP5973G\20140430-31607.b\G-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 30-Apr-2014 19:56:57 Calib Date: 10-Apr-2014 23:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5973G\20140410-30960.b\G29156.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK026

First Level Reviewer: goliszekg Date: 30-Apr-2014 19:56:57

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	96	5.620	5.620	0.000	98	542365	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.620	8.620	0.000	87	223665	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.985	10.985	0.000	97	200946	25.0	25.0	
$ 148 Dibromofluoromethane (Surr	113	5.023	5.023	0.000	57	111566	25.0	24.1	
$ 4 1,2-Dichloroethane-d4 (Sur	67	5.340	5.334	0.006	0	86123	25.0	24.4	
$ 5 Toluene-d8 (Surr)	98	7.132	7.132	0.000	94	507651	25.0	24.4	
$ 6 4-Bromofluorobenzene (Surr	174	9.863	9.857	0.006	83	132564	25.0	26.0	
10 Dichlorodifluoromethane	85		1.438						
11 Chlorodifluoromethane	51		1.469						
12 Chloromethane	50		1.591						
13 Vinyl chloride	62		1.707						
144 Butadiene	54		1.737						
14 Bromomethane	94		2.030						
15 Chloroethane	64		2.139						
16 Dichlorofluoromethane	67		2.359						
17 Trichlorofluoromethane	101		2.371						
141 Ethanol	45		2.615						
18 Ethyl ether	59		2.633						
68 Propene oxide	58		2.712						
19 Acrolein	56		2.798						
21 1,1,2-Trichloro-1,2,2-trif	101		2.883						
20 1,1-Dichloroethene	96		2.889						
22 Acetone	43		2.956						
23 Iodomethane	142		3.054						
24 Carbon disulfide	76		3.090						
25 Isopropyl alcohol	45		3.133						
26 3-Chloro-1-propene	41		3.212						
27 Acetonitrile	40		3.249						
28 Methyl acetate	43		3.255						
29 Methylene Chloride	84	3.401	3.407	-0.006	78	6768		0.8151	
30 2-Methyl-2-propanol	59		3.517						

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
31 Methyl tert-butyl ether	73		3.584						
32 trans-1,2-Dichloroethene	96		3.596						
33 Acrylonitrile	53		3.621						
34 Hexane	57		3.810						
36 1,1-Dichloroethane	63		4.005						
37 Isopropyl ether	45		4.035						
38 Vinyl acetate	43		4.060						
39 2-Chloro-1,3-butadiene	53		4.078						
40 1,1-Dimethoxyethane	75		4.102						
41 Tert-butyl ethyl ether	59		4.377						
42 2,2-Dichloropropane	77		4.535						
43 cis-1,2-Dichloroethene	96		4.560						
44 2-Butanone (MEK)	43		4.584						
45 Ethyl acetate	43		4.627						
46 Propionitrile	54		4.669						
47 Methacrylonitrile	41		4.791						
48 Chlorobromomethane	128		4.791						
49 Tetrahydrofuran	42		4.828						
50 Chloroform	85		4.871						
51 1,1,1-Trichloroethane	97		4.999						
52 Cyclohexane	56		5.023						
53 Carbon tetrachloride	117		5.145						
54 1,1-Dichloropropene	75		5.151						
55 Isobutyl alcohol	43		5.334						
56 Benzene	78		5.352						
140 t-Amyl alcohol	59		5.395						
146 Isooctane	57		5.401						
57 1,2-Dichloroethane	62		5.401						
58 Tert-amyl methyl ether	73		5.431						
59 n-Heptane	43		5.553						
1 1,4-Difluorobenzene	114		5.724						
60 n-Butanol	56		5.956						
61 Trichloroethene	95		5.962						
145 Ethyl acrylate	55		6.071						
62 Methylcyclohexane	83		6.102						
63 1,2-Dichloropropane	63		6.193						
64 Methyl methacrylate	41		6.291						
65 Dibromomethane	93		6.322						
66 1,4-Dioxane	88		6.340						
67 Dichlorobromomethane	83		6.474						
69 2-Nitropropane	43		6.712						
70 2-Chloroethyl vinyl ether	63		6.754						
71 Epichlorohydrin	57		6.840						
72 cis-1,3-Dichloropropene	75		6.901						
73 4-Methyl-2-pentanone (MIBK	43		7.035						
74 Toluene	92	7.199	7.199	0.000	78	4094		0.2694	
75 2-Methylthiophene	97		7.333						
76 trans-1,3-Dichloropropene	75		7.462						
77 3-Methylthiophene	97		7.498						
78 Ethyl methacrylate	69		7.510						
79 1,1,2-Trichloroethane	83		7.651						
80 Tetrachloroethene	166		7.742						

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
81 1,3-Dichloropropane	76		7.809						
82 2-Hexanone	43		7.876						
83 Chlorodibromomethane	129		8.053						
84 Ethylene Dibromide	107		8.157						
139 1-Chlorohexane	55		8.595						
85 3-Chlorobenzotrifluoride	180		8.614						
86 Chlorobenzene	112		8.644						
87 4-Chlorobenzotrifluoride	180		8.675						
88 1,1,1,2-Tetrachloroethane	131		8.742						
89 Ethylbenzene	91		8.742						
90 m-Xylene & p-Xylene	106		8.864						
91 o-Xylene	106		9.290						
92 Styrene	104	9.321	9.315	0.006	85	19198		1.05	
93 Bromoform	173		9.553						
94 2-Chlorobenzotrifluoride	180		9.583						
95 Isopropylbenzene	105		9.675						
96 Cyclohexanone	55		9.821						
97 Bromobenzene	156		10.010						
98 1,1,2,2-Tetrachloroethane	83		10.040						
99 1,2,3-Trichloropropane	110		10.077						
100 trans-1,4-Dichloro-2-buten	53		10.089						
101 N-Propylbenzene	91		10.095						
102 2-Chlorotoluene	126		10.193						
103 3-Chlorotoluene	126		10.254						
104 1,3,5-Trimethylbenzene	105		10.266						
105 4-Chlorotoluene	126		10.302						
106 tert-Butylbenzene	134		10.583						
108 Pentachloroethane	167		10.632						
107 1,2,4-Trimethylbenzene	105		10.638						
109 sec-Butylbenzene	105		10.796						
112 Dicyclopentadiene	66		10.863						
110 1,3-Dichlorobenzene	146		10.924						
111 4-Isopropyltoluene	119		10.930						
113 1,4-Dichlorobenzene	146		11.010						
114 1,2,3-Trimethylbenzene	105		11.040						
143 Benzyl chloride	126		11.150						
115 n-Butylbenzene	91		11.314						
116 1,2-Dichlorobenzene	146		11.357						
117 1,2-Dibromo-3-Chloropropan	75		12.076						
118 1,3,5-Trichlorobenzene	180		12.229						
119 1,2,4-Trichlorobenzene	180		12.765						
120 Hexachlorobutadiene	225		12.881						
121 Naphthalene	128		12.973						
122 1,2,3-Trichlorobenzene	180		13.180						
142 2-Methylnaphthalene	142	13.893	13.887	0.006	1	463		0.0259	
135 Halothane	1		0.000						
138 Pentachloroethane TIC	1		0.000						
136 1-Bromopropane TIC	1		0.000						
137 Ethylene oxide TIC	1		0.000						
134 Propene oxide TIC	1		0.000						
S 123 Total BTEX	1				0			0.2694	
S 124 Xylenes, Total	1		30.000						

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
S 125 1,2-Dichloroethene, Total	1		30.000						
S 126 1,3-Dichloropropene, Total	1		30.000						
T 8 bis(2-chloromethyl)ether T	1		0.000						
T 129 tert-amyl alcohol TIC	1		0.000						
T 9 Ethylene oxide	1		0.000						
T 127 Ethanol TIC	45		0.000						
T 132 Bromoethane TIC	1		0.000						
T 128 Hexachloroethane TIC	1		0.000						
T 130 Aziridine TIC	1		0.000						
T 133 1-Bromopropane	1		0.000						
T 131 bis(chloromethyl)ether TIC	1		0.000						

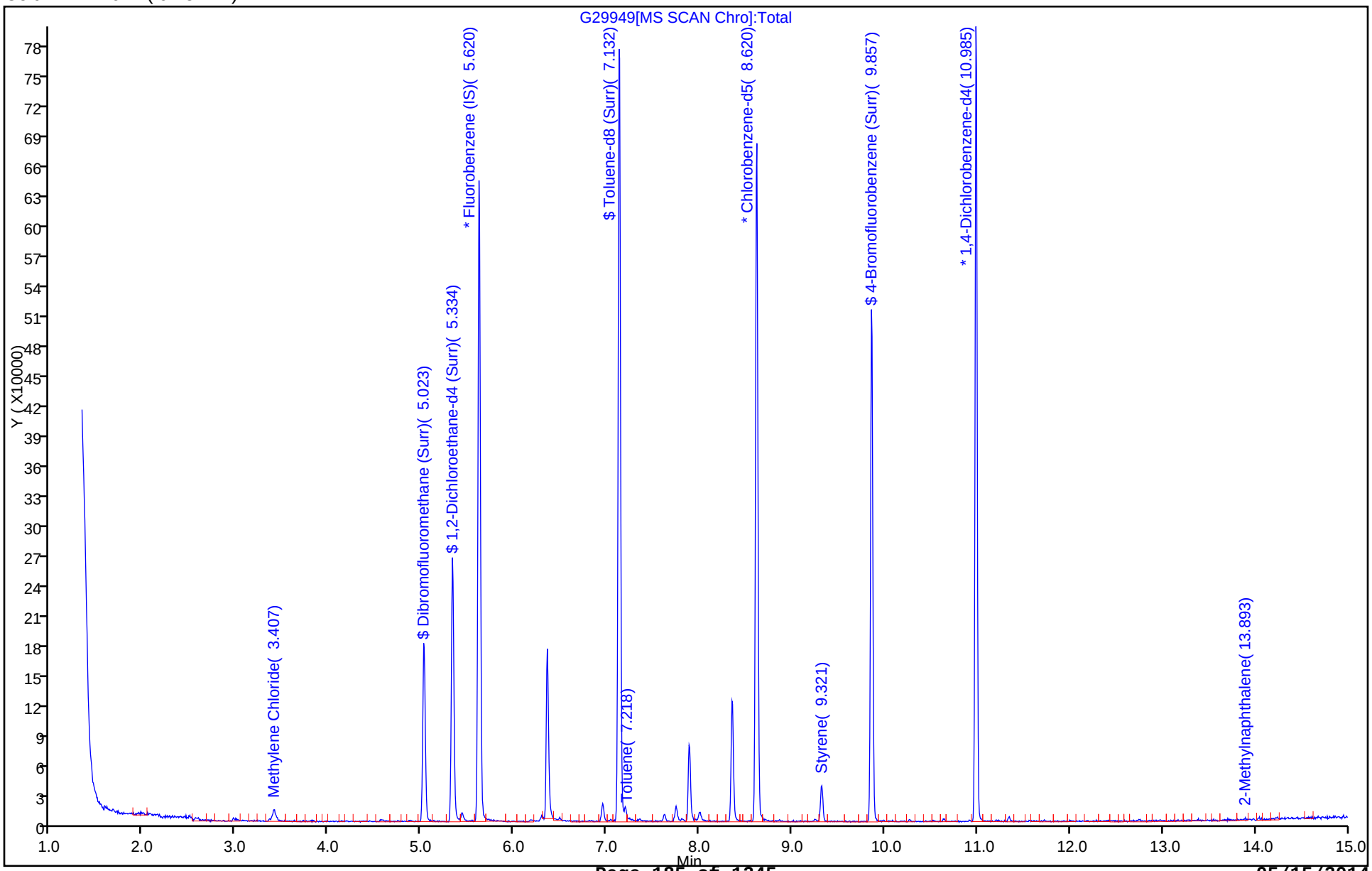
Report Date: 30-Apr-2014 19:56:57 Chrom Revision: 2.2 14-Apr-2014 13:40:08

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973G\20140430-31607.b\G29949.D

Injection Date:	30-Apr-2014 16:50:30	Instrument ID:	HP5973G	Operator ID:	NQ
Lims ID:	LB 480-178952/1-A			Worklist Smp#:	24
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	10.0000	ALS Bottle#:	46
Method:	G-8260	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.: 480-58807-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 480-179119/5

Matrix: Solid | Lab File ID: G29938.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 04/30/2014 12:39

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.: 179119 | Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-35-4	1,1-Dichloroethene	0.0230		0.0010	0.00029
107-06-2	1,2-Dichloroethane	0.0226		0.0010	0.00021
78-93-3	2-Butanone (MEK)	0.112		0.0050	0.0013
71-43-2	Benzene	0.0229		0.0010	0.00041
56-23-5	Carbon tetrachloride	0.0252		0.0010	0.00027
108-90-7	Chlorobenzene	0.0236		0.0010	0.00075
67-66-3	Chloroform	0.0233		0.0010	0.00034
127-18-4	Tetrachloroethene	0.0241		0.0010	0.00036
79-01-6	Trichloroethene	0.0225		0.0010	0.00046
75-01-4	Vinyl chloride	0.0247		0.0010	0.00090

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	95		66-137
460-00-4	4-Bromofluorobenzene (Surr)	101		73-120
2037-26-5	Toluene-d8 (Surr)	101		71-126

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973G\20140430-31607.b\G29938.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 30-Apr-2014 12:39:30 ALS Bottle#: 35 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCS
Misc. Info.: 480-0031607-005 =480-0031607-005
Operator ID: NQ Instrument ID: HP5973G

Method: \\Bufchrom\ChromData\HP5973G\20140430-31607.b\G-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 30-Apr-2014 13:16:55 Calib Date: 10-Apr-2014 23:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5973G\20140410-30960.b\G29156.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK026

First Level Reviewer: nguyendudziaknq Date: 30-Apr-2014 13:16:55

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	96	5.620	5.620	0.000	98	545411	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.614	8.620	-0.006	88	222455	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.985	10.985	0.000	78	191674	25.0	25.0	
$ 148 Dibromofluoromethane (Surr	113	5.023	5.023	0.000	78	118387	25.0	25.4	
$ 4 1,2-Dichloroethane-d4 (Sur	67	5.334	5.334	0.000	0	84566	25.0	23.9	
$ 5 Toluene-d8 (Surr)	98	7.132	7.132	0.000	94	521141	25.0	25.2	
$ 6 4-Bromofluorobenzene (Surr	174	9.857	9.857	0.000	81	127811	25.0	25.2	
10 Dichlorodifluoromethane	85	1.438	1.438	0.000	86	169108	25.0	20.8	
12 Chloromethane	50	1.591	1.591	0.000	89	345762	25.0	23.7	
13 Vinyl chloride	62	1.712	1.707	0.005	82	254997	25.0	24.7	
144 Butadiene	54	1.737	1.737	0.000	91	289923	25.0	23.4	
14 Bromomethane	94	2.011	2.030	-0.019	90	78286	25.0	22.6	
15 Chloroethane	64	2.145	2.139	0.006	92	125315	25.0	22.7	
16 Dichlorofluoromethane	67	2.365	2.359	0.006	81	188423	25.0	22.1	
17 Trichlorofluoromethane	101	2.371	2.371	0.000	82	202867	25.0	25.4	
18 Ethyl ether	59	2.633	2.633	0.000	97	168840	25.0	22.5	
19 Acrolein	56	2.798	2.798	0.000	91	150280	125.0	91.5	
21 1,1,2-Trichloro-1,2,2-trif	101	2.901	2.883	0.018	43	113729	25.0	17.0	
20 1,1-Dichloroethene	96	2.889	2.889	0.000	84	172298	25.0	23.0	
22 Acetone	43	2.956	2.956	0.000	99	381741	125.0	112.1	
23 Iodomethane	142	3.054	3.054	0.000	97	223485	25.0	23.2	
24 Carbon disulfide	76	3.090	3.090	0.000	100	450876	25.0	24.6	
26 3-Chloro-1-propene	41	3.218	3.212	0.006	92	342851	25.0	22.8	
28 Methyl acetate	43	3.261	3.255	0.006	98	1111901	125.0	117.9	
29 Methylene Chloride	84	3.407	3.407	0.000	83	171903	25.0	20.6	
30 2-Methyl-2-propanol	59	3.517	3.517	0.000	98	274501	250.0	245.0	
31 Methyl tert-butyl ether	73	3.584	3.584	0.000	90	451202	25.0	23.5	
32 trans-1,2-Dichloroethene	96	3.596	3.596	0.000	86	144281	25.0	23.3	
33 Acrylonitrile	53	3.621	3.621	0.000	97	1055663	250.0	220.9	
34 Hexane	57	3.810	3.810	0.000	95	252604	25.0	18.6	
36 1,1-Dichloroethane	63	4.005	4.005	0.000	85	288160	25.0	23.6	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
38 Vinyl acetate	43	4.060	4.060	0.000	96	770464	50.0	41.0	
42 2,2-Dichloropropane	77	4.535	4.535	0.000	88	89969	25.0	25.9	
43 cis-1,2-Dichloroethene	96	4.559	4.560	-0.001	73	144112	25.0	23.3	
44 2-Butanone (MEK)	43	4.590	4.584	0.006	97	652373	125.0	111.9	
48 Chlorobromomethane	128	4.791	4.791	0.000	82	65393	25.0	22.2	
49 Tetrahydrofuran	42	4.828	4.828	0.000	95	184424	50.0	42.9	
50 Chloroform	85	4.870	4.871	-0.001	83	149494	25.0	23.3	
51 1,1,1-Trichloroethane	97	4.998	4.999	-0.001	91	156370	25.0	24.6	
52 Cyclohexane	56	5.029	5.023	0.006	92	366840	25.0	19.6	
53 Carbon tetrachloride	117	5.145	5.145	0.000	78	140320	25.0	25.2	
54 1,1-Dichloropropene	75	5.151	5.151	0.000	91	176968	25.0	23.4	
55 Isobutyl alcohol	43	5.340	5.334	0.006	96	374522	625.0	536.3	
56 Benzene	78	5.352	5.352	0.000	96	535954	25.0	22.9	
57 1,2-Dichloroethane	62	5.401	5.401	0.000	94	221772	25.0	22.6	
59 n-Heptane	43	5.553	5.553	0.000	95	302060	25.0	19.1	
61 Trichloroethene	95	5.968	5.962	0.006	92	132935	25.0	22.5	
62 Methylcyclohexane	83	6.102	6.102	0.000	96	212187	25.0	19.1	
63 1,2-Dichloropropane	63	6.193	6.193	0.000	93	165629	25.0	22.9	
65 Dibromomethane	93	6.327	6.322	0.005	90	76415	25.0	22.5	
66 1,4-Dioxane	88	6.340	6.340	0.000	88	31540	500.0	444.4	
67 Dichlorobromomethane	83	6.480	6.474	0.006	91	158914	25.0	24.4	
70 2-Chloroethyl vinyl ether	63	6.754	6.754	0.000	88	120613	25.0	23.2	
72 cis-1,3-Dichloropropene	75	6.900	6.901	-0.001	87	203983	25.0	24.6	
73 4-Methyl-2-pentanone (MIBK	43	7.035	7.035	0.000	98	1306132	125.0	117.5	
74 Toluene	92	7.199	7.199	0.000	97	349524	25.0	23.1	
76 trans-1,3-Dichloropropene	75	7.461	7.462	-0.001	93	177109	25.0	26.1	
78 Ethyl methacrylate	69	7.516	7.510	0.006	94	196415	25.0	24.4	
79 1,1,2-Trichloroethane	83	7.650	7.651	-0.001	89	98766	25.0	23.0	
80 Tetrachloroethene	166	7.742	7.742	0.000	87	125395	25.0	24.1	
81 1,3-Dichloropropane	76	7.815	7.809	0.006	96	222372	25.0	23.1	
82 2-Hexanone	43	7.876	7.876	0.000	99	933501	125.0	119.1	
83 Chlorodibromomethane	129	8.053	8.053	0.000	89	107995	24.5	21.9	
84 Ethylene Dibromide	107	8.162	8.157	0.005	99	124433	25.0	23.8	
86 Chlorobenzene	112	8.650	8.644	0.006	92	383937	25.0	23.6	
88 1,1,1,2-Tetrachloroethane	131	8.742	8.742	0.000	84	111611	25.0	27.6	
89 Ethylbenzene	91	8.742	8.742	0.000	98	666950	25.0	24.0	
90 m-Xylene & p-Xylene	106	8.864	8.864	0.000	0	266818	25.0	24.4	
91 o-Xylene	106	9.290	9.290	0.000	98	256641	25.0	24.7	
92 Styrene	104	9.315	9.315	0.000	94	433703	25.0	23.8	
93 Bromoform	173	9.559	9.553	0.005	96	52848	25.0	21.4	
95 Isopropylbenzene	105	9.674	9.675	-0.001	96	670948	25.0	24.3	
97 Bromobenzene	156	10.010	10.010	0.000	98	145471	25.0	23.4	
98 1,1,2,2-Tetrachloroethane	83	10.040	10.040	0.000	94	167573	25.0	23.5	
99 1,2,3-Trichloropropane	110	10.077	10.077	0.000	77	57847	25.0	23.1	
100 trans-1,4-Dichloro-2-buten	53	10.089	10.089	0.000	63	72508	25.0	23.9	
101 N-Propylbenzene	91	10.095	10.095	0.000	98	786938	25.0	24.2	
102 2-Chlorotoluene	126	10.193	10.193	0.000	95	154859	25.0	23.7	
104 1,3,5-Trimethylbenzene	105	10.266	10.266	0.000	92	587510	25.0	24.7	
105 4-Chlorotoluene	126	10.302	10.302	0.000	96	161380	25.0	23.7	
106 tert-Butylbenzene	134	10.583	10.583	0.000	94	125600	25.0	24.4	
107 1,2,4-Trimethylbenzene	105	10.638	10.638	0.000	97	604460	25.0	24.7	
109 sec-Butylbenzene	105	10.796	10.796	0.000	94	742381	25.0	24.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
110 1,3-Dichlorobenzene	146	10.924	10.924	0.000	95	298810	25.0	23.8	
111 4-Isopropyltoluene	119	10.930	10.930	0.000	97	648296	25.0	24.8	
113 1,4-Dichlorobenzene	146	11.009	11.010	-0.001	92	309412	25.0	23.7	
115 n-Butylbenzene	91	11.314	11.314	0.000	98	590603	25.0	25.1	
116 1,2-Dichlorobenzene	146	11.357	11.357	0.000	95	293201	25.0	23.9	
117 1,2-Dibromo-3-Chloropropan	75	12.076	12.076	0.000	71	33314	25.0	20.5	
119 1,2,4-Trichlorobenzene	180	12.765	12.765	0.000	94	193052	25.0	23.4	
120 Hexachlorobutadiene	225	12.881	12.881	0.000	96	81071	25.0	23.6	
121 Naphthalene	128	12.972	12.973	-0.001	97	661951	25.0	22.9	
122 1,2,3-Trichlorobenzene	180	13.180	13.180	0.000	93	188814	25.0	23.2	

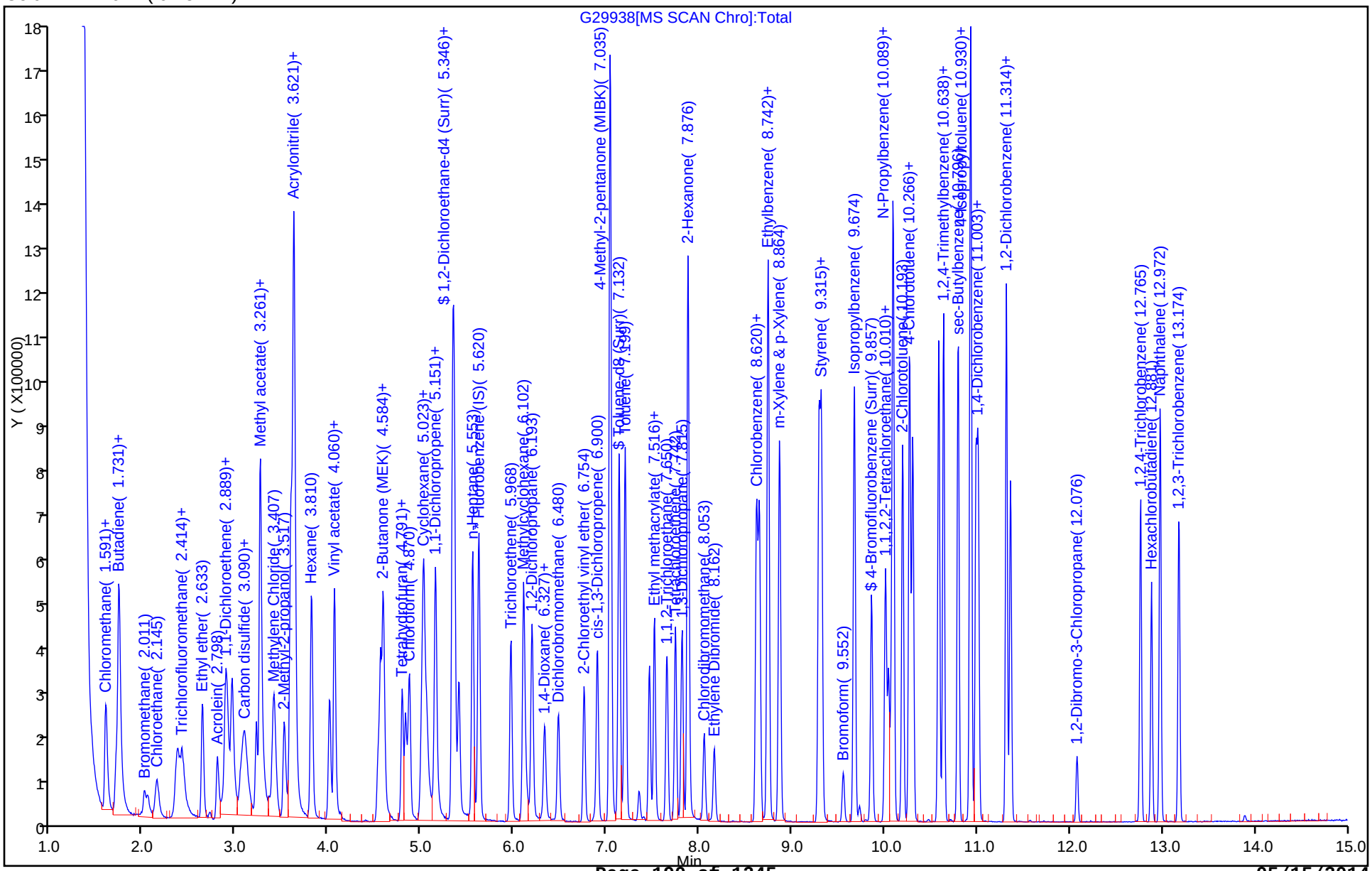
Report Date: 30-Apr-2014 13:16:56 Chrom Revision: 2.2 14-Apr-2014 13:40:08

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973G\20140430-31607.b\G29938.D

Injection Date:	30-Apr-2014 12:39:30	Instrument ID:	HP5973G	Operator ID:	NQ
Lims ID:	LCS			Worklist Smp#:	5
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	35
Method:	G-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1

SDG No.:

Instrument ID: HP5973G Start Date: 04/10/2014 16:49

Analysis Batch Number: 175032 End Date: 04/11/2014 01:24

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 480-175032/2		04/10/2014 16:49	1	G29138.D	ZB-624 (60) 0.25(mm)
IC 480-175032/4		04/10/2014 17:45	1	G29140.D	ZB-624 (60) 0.25(mm)
IC 480-175032/5		04/10/2014 18:08	1	G29141.D	ZB-624 (60) 0.25(mm)
IC 480-175032/6		04/10/2014 18:31	1	G29142.D	ZB-624 (60) 0.25(mm)
IC 480-175032/7		04/10/2014 18:54	1	G29143.D	ZB-624 (60) 0.25(mm)
ICIS 480-175032/8		04/10/2014 19:18	1	G29144.D	ZB-624 (60) 0.25(mm)
IC 480-175032/9		04/10/2014 19:40	1	G29145.D	ZB-624 (60) 0.25(mm)
IC 480-175032/10		04/10/2014 20:03	1	G29146.D	ZB-624 (60) 0.25(mm)
MDLV 480-175032/12		04/10/2014 20:49	1		ZB-624 (60) 0.25(mm)
IC 480-175032/14		04/10/2014 21:34	1		ZB-624 (60) 0.25(mm)
IC 480-175032/15		04/10/2014 21:57	1		ZB-624 (60) 0.25(mm)
IC 480-175032/16		04/10/2014 22:20	1		ZB-624 (60) 0.25(mm)
IC 480-175032/17		04/10/2014 22:43	1		ZB-624 (60) 0.25(mm)
IC 480-175032/18		04/10/2014 23:06	1		ZB-624 (60) 0.25(mm)
IC 480-175032/19		04/10/2014 23:29	1		ZB-624 (60) 0.25(mm)
IC 480-175032/20		04/10/2014 23:52	1		ZB-624 (60) 0.25(mm)
MDLV 480-175032/22		04/11/2014 00:38	1		ZB-624 (60) 0.25(mm)
ICV 480-175032/24		04/11/2014 01:24	1		ZB-624 (60) 0.25(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1

SDG No.:

Instrument ID: HP5973G Start Date: 04/30/2014 09:52

Analysis Batch Number: 179119 End Date: 04/30/2014 19:30

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 480-179119/2		04/30/2014 09:52	1	G29935.D	ZB-624 (60) 0.25(mm)
CCVIS 480-179119/3		04/30/2014 11:41	1	G29936.D	ZB-624 (60) 0.25(mm)
CCV 480-179119/4		04/30/2014 12:16	1		ZB-624 (60) 0.25(mm)
LCS 480-179119/5		04/30/2014 12:39	1	G29938.D	ZB-624 (60) 0.25(mm)
MB 480-179119/7		04/30/2014 13:25	1	G29940.D	ZB-624 (60) 0.25(mm)
ZZZZZ		04/30/2014 13:47	20		ZB-624 (60) 0.25(mm)
ZZZZZ		04/30/2014 14:10	4		ZB-624 (60) 0.25(mm)
ZZZZZ		04/30/2014 14:33	200		ZB-624 (60) 0.25(mm)
ZZZZZ		04/30/2014 15:19	8		ZB-624 (60) 0.25(mm)
ZZZZZ		04/30/2014 15:41	100		ZB-624 (60) 0.25(mm)
ZZZZZ		04/30/2014 16:04	40		ZB-624 (60) 0.25(mm)
ZZZZZ		04/30/2014 16:27	1		ZB-624 (60) 0.25(mm)
LB 480-178952/1-A		04/30/2014 16:50	10	G29949.D	ZB-624 (60) 0.25(mm)
ZZZZZ		04/30/2014 17:13	10		ZB-624 (60) 0.25(mm)
480-58807-1	P1-1(Sed)	04/30/2014 17:36	10	G29951.D	ZB-624 (60) 0.25(mm)
480-58807-2	P1-2(Sed)	04/30/2014 17:59	10	G29952.D	ZB-624 (60) 0.25(mm)
480-58807-3	P2-1(Sed)	04/30/2014 18:22	10	G29953.D	ZB-624 (60) 0.25(mm)
480-58807-4	P2-2(Sed)	04/30/2014 18:45	10	G29954.D	ZB-624 (60) 0.25(mm)
ZZZZZ		04/30/2014 19:07	200		ZB-624 (60) 0.25(mm)
ZZZZZ		04/30/2014 19:30	200		ZB-624 (60) 0.25(mm)

GC/MS VOA Worksheet

Batch Number: 480-179119
Method: 8260C
Analyst: Goliszek, Gregory T

Date Open: Apr 30 2014 9:52AM
Batch End:

Lab ID	Client ID	Method Chain	Basis	Initial pH	Initial weight/volume of sample	Final weight/volume of sample	Instrument	2MTP_WRK_00031	3MTP_WRK_00034
BFB~480-179119/2		8260C			1 uL	1 uL	HP5973G		
CCVIS~480-179119/3		8260C			5 mL	5 mL	HP5973G		
CCV~480-179119/4		8260C			5 mL	5 mL	HP5973G	12.5 uL	12.5 uL
LCS~480-179119/5		8260C			5 mL	5 mL	HP5973G		
MB~480-179119/7		8260C			5 mL	5 mL	HP5973G		
480-58575-C-1	MW-1	8260C	T	<2 SU	5 mL	5 mL	HP5973G		
480-58575-C-2	MW-2	8260C	T	<2 SU	5 mL	5 mL	HP5973G		
480-58575-C-3	MW-4	8260C	T	<2 SU	5 mL	5 mL	HP5973G		
480-58575-C-6	MW-7	8260C	T	<2 SU	5 mL	5 mL	HP5973G		
480-58575-B-7	MW-8	8260C	T	<2 SU	5 mL	5 mL	HP5973G		
480-58587-H-1	Cell 13	8260C	T	7 SU	5 mL	5 mL	HP5973G		
LB~480-178952/1-A				5 SU	5 mL	5 mL	HP5973G		
480-58767-A-1-B		8260C	P	5 SU	5 mL	5 mL	HP5973G		
480-58807-B-1-C		8260C	P	5 SU	5 mL	5 mL	HP5973G		
480-58807-C-2-C		8260C	P	5 SU	5 mL	5 mL	HP5973G		
480-58807-B-3-C		8260C	P	5 SU	5 mL	5 mL	HP5973G		
480-58807-C-4-C		8260C	P	5 SU	5 mL	5 mL	HP5973G		
480-58368-B-4	W141R	8260C	T	<2 SU	5 mL	5 mL	HP5973G		
480-58575-B-3~MS		8260C	T	<2 SU	5 mL	5 mL	HP5973G		
480-58575-B-3~MSD		8260C	T	<2 SU	5 mL	5 mL	HP5973G		

GC/MS VOA Worksheet

Batch Number: 480-179119
Method: 8260C
Analyst: Goliszek, Gregory T

Date Open: Apr 30 2014 9:52AM
Batch End:

Lab ID	Client ID	Method Chain	Basis	8260 CORP mix_00010	ADD CORP mix_00008	BFB_WRK_00033	G_8260_IS_00043	G_8260_Surr_00064	GAS CORP mix_00023
BFB~480-179119/2		8260C				1 uL			
CCVIS~480-179119/3		8260C		12.5 uL			1 uL	1 uL	12.5 uL
CCV~480-179119/4		8260C			12.5 uL		1 uL	1 uL	
LCS~480-179119/5		8260C		12.5 uL			1 uL	1 uL	12.5 uL
MB~480-179119/7		8260C					1 uL	1 uL	
480-58575-C-1	MW-1	8260C	T				1 uL	1 uL	
480-58575-C-2	MW-2	8260C	T				1 uL	1 uL	
480-58575-C-3	MW-4	8260C	T				1 uL	1 uL	
480-58575-C-6	MW-7	8260C	T				1 uL	1 uL	
480-58575-B-7	MW-8	8260C	T				1 uL	1 uL	
480-58587-H-1	Cell 13	8260C	T				1 uL	1 uL	
LB~480-178952/1-A							1 uL	1 uL	
480-58767-A-1-B		8260C	P				1 uL	1 uL	
480-58807-B-1-C		8260C	P				1 uL	1 uL	
480-58807-C-2-C		8260C	P				1 uL	1 uL	
480-58807-B-3-C		8260C	P				1 uL	1 uL	
480-58807-C-4-C		8260C	P				1 uL	1 uL	
480-58368-B-4	W141R	8260C	T				1 uL	1 uL	
480-58575-B-3~MS		8260C	T	12.5 uL			1 uL	1 uL	12.5 uL
480-58575-B-3~MSD		8260C	T	12.5 uL			1 uL	1 uL	12.5 uL

GC/MS VOA BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1

SDG No.:

Batch Number: 178952 Batch Start Date: 04/29/14 14:31 Batch Analyst: Boyd, Matthew R

Batch Method: 1311 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	PartSizeRed	VesselNumber	FiltCompDate	FiltCompTime
LB 480-178952/1		1311, 8260C			500 mL		4	4/30/14	11:05
480-58807-B-1	P1-1(Sed)	1311, 8260C	P	25.49 g	500 mL	No	1	4/30/14	11:05
480-58807-C-2	P1-2(Sed)	1311, 8260C	P	25.33 g	500 mL	No	3	4/30/14	11:05
480-58807-B-3	P2-1(Sed)	1311, 8260C	P	25.82 g	500 mL	No	7	4/30/14	11:05
480-58807-C-4	P2-2(Sed)	1311, 8260C	P	25.05 g	500 mL	No	20	4/30/14	11:05

Lab Sample ID	Client Sample ID	Method Chain	Basis	LeachatepH	LeachVolume	TCLP%Solids	Pressure_Init	Pressure_Final	
LB 480-178952/1		1311, 8260C		4.91	120 mL		50 psi absolute	50 psi absolute	
480-58807-B-1	P1-1(Sed)	1311, 8260C	P	5.00	120 mL	100 %	50 psi absolute	50 psi absolute	
480-58807-C-2	P1-2(Sed)	1311, 8260C	P	5.09	120 mL	100 %	50 psi absolute	50 psi absolute	
480-58807-B-3	P2-1(Sed)	1311, 8260C	P	5.05	120 mL	100 %	50 psi absolute	50 psi absolute	
480-58807-C-4	P2-2(Sed)	1311, 8260C	P	5.06	120 mL	100 %	50 psi absolute	50 psi absolute	

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

GC/MS VOA BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1

SDG No.:

Batch Number: 178952 Batch Start Date: 04/29/14 14:31 Batch Analyst: Boyd, Matthew R

Batch Method: 1311 Batch End Date:

Batch Notes	
Balance ID	B037067151
pH Buffer 1 ID	1808926 (10)
pH Buffer 2 ID	1808950 (7)
pH Buffer 3 ID	1808949 (4)
pH Buffer 4 ID	1324094 (2)
First End time	07:36
Final Room Temperature	23.00 Celsius
Initial Room Temperature	21.90 Celsius
Minumum Temperature	21.90 Celsius
pH Meter Calibration Slope	97.6%
Room Temperature during Rotation	21.90-23.00 Degrees C
Room Temperature Thermometer ID	122273689
First Start time	15:36
TCLP Fluid 1 ID	1989115; 2039241
TCLP Fluid pH	4.88; 4.97 SU
Temperature	23.00 Celsius
Maximum Temperature	23.00 Celsius
ID number of the thermometer	12227689
Tumbler Rotations per Minute	30 RPM MRB 4/29/14
Uncorrected Final Room Temperature	22.90 Celsius
Uncorrected Initial Room Temperature	21.80 Celsius
Uncorrected Room Temperature	21.80-22.90 Celsius
Uncorrected Temperature	22.90 Celsius
Uncorrected Maximum Temperature	22.90 Celsius
Uncorrected Minimum Temperature	21.80 Celsius

Basis	Basis Description
P	TCLP

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.: 480-58807-1

SDG No.:

Matrix: Solid (TCLP) Level: Low

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

Client Sample ID	Lab Sample ID	2FP #	PHL #	NBZ #	FBP #	TBP #	TPH #
P1-1(Sed)	480-58807-1	38	28	75	76	81	87
P1-2(Sed)	480-58807-2	39	30	78	78	76	88
P2-1(Sed)	480-58807-3	41	29	75	74	78	86
P2-2(Sed)	480-58807-4	43	31	82	80	77	86
	MB 480-180799/1-A	52	34	83	79	70	84
	LB 480-180381/1-D	38	26	71	71	80	89
	LCS 480-180799/2-A	51	36	88	88	79	88
	LCSD 480-180799/3-A	51	37	85	85	82	90

	QC LIMITS
2FP = 2-Fluorophenol	20-120
PHL = Phenol-d5	16-120
NBZ = Nitrobenzene-d5	46-120
FBP = 2-Fluorobiphenyl	48-120
TBP = 2,4,6-Tribromophenol	52-132
TPH = p-Terphenyl-d14	67-150

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.: 480-58807-1

SDG No.:

Matrix: Water Level: Low Lab File ID: V0231.D

Lab ID: LCS 480-180799/2-A Client ID:

COMPOUND	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC	QC LIMITS REC	#
1,4-Dichlorobenzene	0.0500	0.0317	63	32-120	
2,4-Dinitrotoluene	0.0500	0.0508	102	65-154	
Hexachloroethane	0.0500	0.0313	63	14-101	
Pentachlorophenol	0.100	0.0722	72	39-136	

Column to be used to flag recovery and RPD values

FORM III 8270D

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1

SDG No.:

Matrix: Water Level: Low Lab File ID: V0232.D

Lab ID: LCSD 480-180799/3-A Client ID:

COMPOUND	SPIKE ADDED (mg/L)	LCSD CONCENTRATION (mg/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,4-Dichlorobenzene	0.0500	0.0323	65	2	36	32-120	
2,4-Dinitrotoluene	0.0500	0.0494	99	3	20	65-154	
Hexachloroethane	0.0500	0.0297	59	5	46	14-101	
Pentachlorophenol	0.100	0.0728	73	1	37	39-136	

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.: 480-58807-1

SDG No.:

Lab File ID: V0230.D Lab Sample ID: MB 480-180799/1-A

Matrix: Water Date Extracted: 05/08/2014 06:29

Instrument ID: HP5973V Date Analyzed: 05/08/2014 16:05

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 480-180799/2-A	V0231.D	05/08/2014 16:30
	LCSD 480-180799/3-A	V0232.D	05/08/2014 16:55
	LB 480-180381/1-D	V0234.D	05/08/2014 17:43
P1-1(Sed)	480-58807-1	V0243.D	05/08/2014 21:22
P1-2(Sed)	480-58807-2	V0244.D	05/08/2014 21:46
P2-1(Sed)	480-58807-3	V0245.D	05/08/2014 22:10
P2-2(Sed)	480-58807-4	V0246.D	05/08/2014 22:35

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

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1

SDG No.:

Lab File ID: V0079.D DFTPP Injection Date: 05/05/2014

Instrument ID: HP5973V DFTPP Injection Time: 08:32

Analysis Batch No.: 180025

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10-80% of Base Peak	45.9	
68	Less than 2% of mass 69	0.0	(0.0)1
69	Mass 69 Relative abundance	45.2	
70	Less than 2% of mass 69	0.0	(0.0)1
127	10-80% of Base Peak	48.2	
197	Less than 2% of mass 198	0.0	
198	Base peak	100.0	
199	5-9% of mass 198	5.7	
275	10-60% of Base Peak	24.8	
365	Greater than 1% of mass 198	2.8	
441	present but less than 24% of mass 442	11.2	(14.7)2
442	Greater than 50% of mass 198	76.1	
443	15-24% of mass 442	15.1	(19.8)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
	IC 480-180025/3	V0080.D	05/05/2014	08:54
	IC 480-180025/4	V0081.D	05/05/2014	09:23
	ICIS 480-180025/5	V0082.D	05/05/2014	09:47
	IC 480-180025/6	V0083.D	05/05/2014	10:12
	IC 480-180025/7	V0084.D	05/05/2014	10:36
	IC 480-180025/8	V0085.D	05/05/2014	11:00

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

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1

SDG No.:

Lab File ID: V0227.D DFTPP Injection Date: 05/08/2014

Instrument ID: HP5973V DFTPP Injection Time: 15:00

Analysis Batch No.: 180978

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10-80% of Base Peak	45.9	
68	Less than 2% of mass 69	0.5	(1.2)1
69	Mass 69 Relative abundance	42.9	
70	Less than 2% of mass 69	0.0	(0.0)1
127	10-80% of Base Peak	46.0	
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	26.6	
365	Greater than 1% of mass 198	4.2	
441	present but less than 24% of mass 442	11.7	(15.7)2
442	Greater than 50% of mass 198	74.3	
443	15-24% of mass 442	14.2	(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
	CCVIS 480-180978/3	V0228.D	05/08/2014	15:16
	MB 480-180799/1-A	V0230.D	05/08/2014	16:05
	LCS 480-180799/2-A	V0231.D	05/08/2014	16:30
	LCSD 480-180799/3-A	V0232.D	05/08/2014	16:55
	LB 480-180381/1-D	V0234.D	05/08/2014	17:43
P1-1(Sed)	480-58807-1	V0243.D	05/08/2014	21:22
P1-2(Sed)	480-58807-2	V0244.D	05/08/2014	21:46
P2-1(Sed)	480-58807-3	V0245.D	05/08/2014	22:10
P2-2(Sed)	480-58807-4	V0246.D	05/08/2014	22:35

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

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1

SDG No.:

Sample No.: ICIS 480-180025/5 Date Analyzed: 05/05/2014 09:47

Instrument ID: HP5973V GC Column: RXI-5Sil MS ID: 0.25(mm)

Lab File ID (Standard): V0082.D Heated Purge: (Y/N) N

Calibration ID: 18294

		DCB		NPT		ANT	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		65340	6.08	218285	7.57	141940	9.64
UPPER LIMIT		130680	6.58	436570	8.07	283880	10.14
LOWER LIMIT		32670	5.58	109143	7.07	70970	9.14
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCVIS 480-180978/3		86817	6.08	290235	7.57	187053	9.64

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.: 480-58807-1

SDG No.:

Sample No.: ICIS 480-180025/5 Date Analyzed: 05/05/2014 09:47

Instrument ID: HP5973V GC Column: RXI-5Sil MS ID: 0.25(mm)

Lab File ID (Standard): V0082.D Heated Purge: (Y/N) N

Calibration ID: 18294

		PHN		CRY		PRY	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		240557	11.24	251313	13.64	227248	14.90
UPPER LIMIT		481114	11.74	502626	14.14	454496	15.40
LOWER LIMIT		120279	10.74	125657	13.14	113624	14.40
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCVIS 480-180978/3		330607	11.24	400864	13.64	388016	14.90

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.: 480-58807-1

SDG No.:

Sample No.: CCVIS 480-180978/3 Date Analyzed: 05/08/2014 15:16

Instrument ID: HP5973V GC Column: RXI-5Sil MS ID: 0.25(mm)

Lab File ID (Standard): V0228.D Heated Purge: (Y/N) N

Calibration ID: 18297

		DCB		NPT		ANT	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		86817	6.08	290235	7.57	187053	9.64
UPPER LIMIT		173634	6.58	580470	8.07	374106	10.14
LOWER LIMIT		43409	5.58	145118	7.07	93527	9.14
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 480-180799/1-A		65205	6.08	221356	7.57	143927	9.64
LCS 480-180799/2-A		61970	6.08	201403	7.57	133237	9.64
LCSD 480-180799/3-A		62233	6.07	209401	7.57	136416	9.64
LB 480-180381/1-D		77031	6.08	250028	7.57	162031	9.64
480-58807-1	P1-1(Sed)	63223	6.08	198610	7.57	131443	9.63
480-58807-2	P1-2(Sed)	66669	6.07	217850	7.57	139376	9.63
480-58807-3	P2-1(Sed)	72533	6.08	242061	7.57	160660	9.64
480-58807-4	P2-2(Sed)	70685	6.08	233401	7.57	155192	9.63

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.: 480-58807-1

SDG No.:

Sample No.: CCVIS 480-180978/3 Date Analyzed: 05/08/2014 15:16

Instrument ID: HP5973V GC Column: RXI-5Sil MS ID: 0.25(mm)

Lab File ID (Standard): V0228.D Heated Purge: (Y/N) N

Calibration ID: 18297

		PHN		CRY		PRY	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		330607	11.24	400864	13.64	388016	14.90
UPPER LIMIT		661214	11.74	801728	14.14	776032	15.40
LOWER LIMIT		165304	10.74	200432	13.14	194008	14.40
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 480-180799/1-A		264327	11.23	302695	13.63	288717	14.89
LCS 480-180799/2-A		241316	11.24	288137	13.64	292747	14.90
LCSD 480-180799/3-A		238693	11.23	280845	13.64	283764	14.89
LB 480-180381/1-D		300812	11.23	323852	13.63	314749	14.89
480-58807-1	P1-1(Sed)	246457	11.23	267250	13.63	281019	14.89
480-58807-2	P1-2(Sed)	261087	11.23	283018	13.63	291023	14.89
480-58807-3	P2-1(Sed)	289029	11.23	327838	13.63	330086	14.89
480-58807-4	P2-2(Sed)	288886	11.23	317252	13.63	324187	14.89

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.: 480-58807-1

SDG No.:

Client Sample ID: P1-1(Sed) | Lab Sample ID: 480-58807-1

Matrix: Solid (TCLP) | Lab File ID: V0243.D

Analysis Method: 8270D | Date Collected: 04/25/2014 00:00

Extract. Method: 3510C | Date Extracted: 05/08/2014 06:29

Sample wt/vol: 250(mL) | Date Analyzed: 05/08/2014 21:22

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.: 180978 | Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
106-46-7	1,4-Dichlorobenzene	ND		0.010	0.00046
95-95-4	2,4,5-Trichlorophenol	ND		0.0050	0.00048
88-06-2	2,4,6-Trichlorophenol	ND		0.0050	0.00061
121-14-2	2,4-Dinitrotoluene	ND		0.0050	0.00045
95-48-7	2-Methylphenol	ND		0.0050	0.00040
108-39-4	3-Methylphenol	ND	*	0.010	0.00040
106-44-5	4-Methylphenol	ND	*	0.010	0.00036
118-74-1	Hexachlorobenzene	ND		0.0050	0.00051
87-68-3	Hexachlorobutadiene	ND		0.0050	0.00068
67-72-1	Hexachloroethane	ND		0.0050	0.00059
98-95-3	Nitrobenzene	ND		0.0050	0.00029
87-86-5	Pentachlorophenol	ND		0.010	0.0022
110-86-1	Pyridine	ND		0.025	0.00041

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol	81		52-132
321-60-8	2-Fluorobiphenyl	76		48-120
367-12-4	2-Fluorophenol	38		20-120
4165-60-0	Nitrobenzene-d5	75		46-120
4165-62-2	Phenol-d5	28		16-120
1718-51-0	p-Terphenyl-d14	87		67-150

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973V\20140508-31911.b\V0243.D
Lims ID: 480-58807-B-1-G Lab Sample ID: 480-58807-1
Client ID: P1-1(Sed)
Sample Type: Client
Inject. Date: 08-May-2014 21:22:30 ALS Bottle#: 18 Worklist Smp#: 18
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 480-0031911-018
Operator ID: hl Instrument ID: HP5973V

Method: \\Bufchrom\ChromData\HP5973V\20140508-31911.b\V-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 09-May-2014 01:38:13 Calib Date: 05-May-2014 14:41:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5973V\20140505-31759.b\V0093.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK012

First Level Reviewer: rimmera Date: 09-May-2014 01:38:13

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
*	1 1,4-Dichlorobenzene-d4	152	6.077	6.077	0.000	93	63223	40.0	
*	2 Naphthalene-d8	136	7.568	7.573	-0.005	99	198610	40.0	
*	3 Acenaphthene-d10	164	9.630	9.635	-0.005	93	131443	40.0	
*	4 Phenanthrene-d10	188	11.232	11.233	-0.001	96	246457	40.0	
*	5 Chrysene-d12	240	13.631	13.637	-0.006	97	267250	40.0	
*	6 Perylene-d12	264	14.892	14.892	0.000	98	281019	40.0	
$	7 2-Fluorophenol	112	4.549	4.549	0.000	83	36995	18.8	
$	8 Phenol-d5	99	5.671	5.677	-0.005	0	37783	14.0	
$	9 Nitrobenzene-d5	82	6.724	6.729	-0.005	89	94672	37.5	
$	10 2-Fluorobiphenyl	172	8.844	8.850	-0.006	99	183924	37.9	
$	11 2,4,6-Tribromophenol	330	10.522	10.527	-0.005	87	36447	40.4	
$	12 p-Terphenyl-d14	244	12.712	12.718	-0.006	98	270168	43.7	
	70 Pyridine	52		2.973					
	88 1,4-Dichlorobenzene	146		6.099					
	92 2-Methylphenol	108		6.398					
	96 4-Methylphenol	108		6.585					
	99 Hexachloroethane	117		6.665					
	102 Nitrobenzene	77		6.750					
	121 Hexachlorobutadiene	225		7.749					
	137 2,4,6-Trichlorophenol	196		8.759					
	138 2,4,5-Trichlorophenol	196		8.812					
	156 2,4-Dinitrotoluene	165		9.886					
	179 Hexachlorobenzene	284		10.848					
	183 Pentachlorophenol	266		11.061					
S	233 3-Methylphenol	1		6.497					

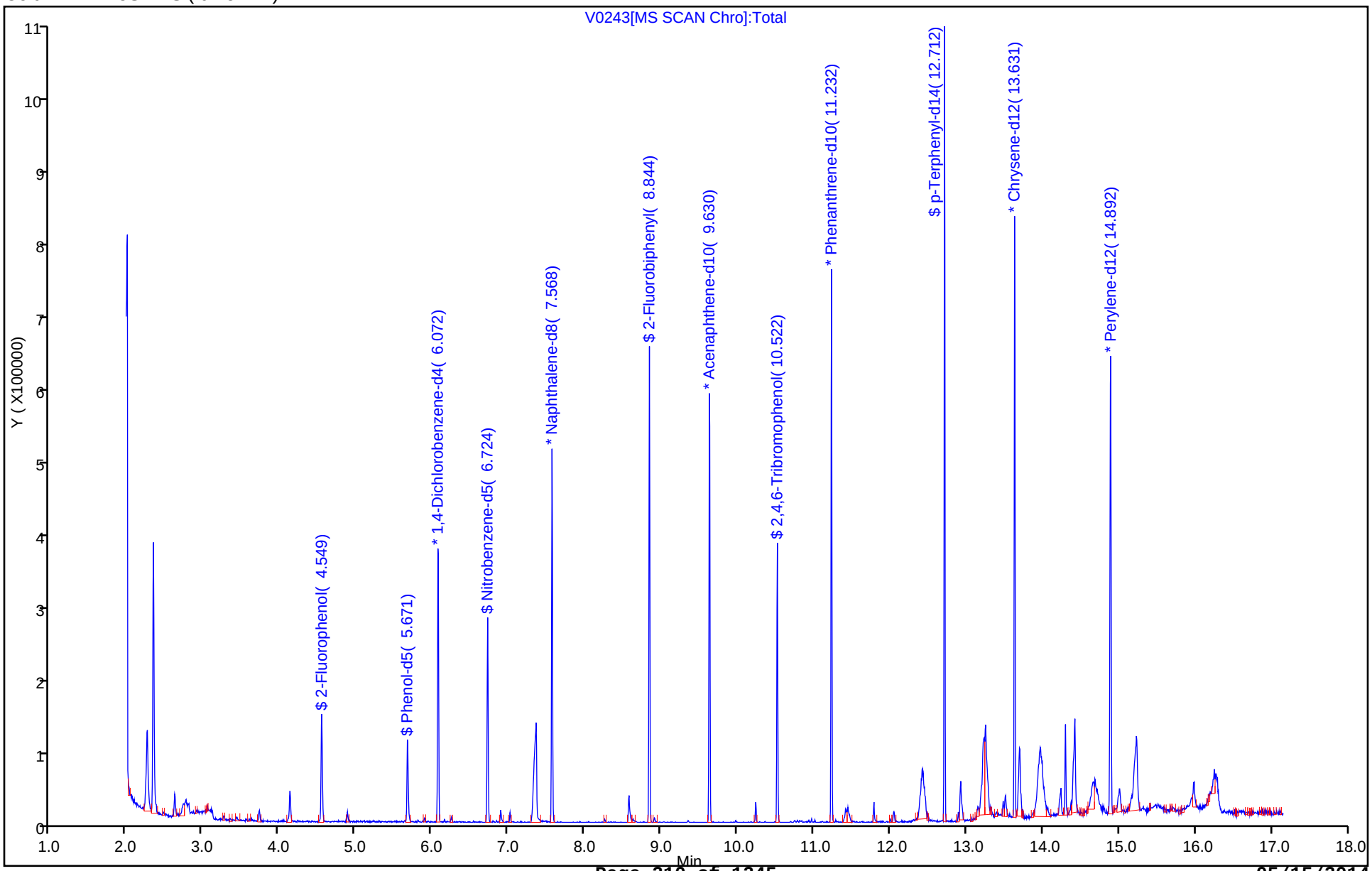
Report Date: 09-May-2014 01:38:13 Chrom Revision: 2.2 14-Apr-2014 13:40:08

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973V\20140508-31911.b\V0243.D

Injection Date:	08-May-2014 21:22:30	Instrument ID:	HP5973V	Operator ID:	hl
Lims ID:	480-58807-B-1-G	Lab Sample ID:	480-58807-1	Worklist Smp#:	18
Client ID:	P1-1(Sed)				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	18
Method:	V-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.: 480-58807-1

SDG No.:

Client Sample ID: P1-2(Sed) | Lab Sample ID: 480-58807-2

Matrix: Solid (TCLP) | Lab File ID: V0244.D

Analysis Method: 8270D | Date Collected: 04/25/2014 00:00

Extract. Method: 3510C | Date Extracted: 05/08/2014 06:29

Sample wt/vol: 250(mL) | Date Analyzed: 05/08/2014 21:46

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.: 180978 | Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
106-46-7	1,4-Dichlorobenzene	ND		0.010	0.00046
95-95-4	2,4,5-Trichlorophenol	ND		0.0050	0.00048
88-06-2	2,4,6-Trichlorophenol	ND		0.0050	0.00061
121-14-2	2,4-Dinitrotoluene	ND		0.0050	0.00045
95-48-7	2-Methylphenol	ND		0.0050	0.00040
108-39-4	3-Methylphenol	ND	*	0.010	0.00040
106-44-5	4-Methylphenol	ND	*	0.010	0.00036
118-74-1	Hexachlorobenzene	ND		0.0050	0.00051
87-68-3	Hexachlorobutadiene	ND		0.0050	0.00068
67-72-1	Hexachloroethane	ND		0.0050	0.00059
98-95-3	Nitrobenzene	ND		0.0050	0.00029
87-86-5	Pentachlorophenol	ND		0.010	0.0022
110-86-1	Pyridine	ND		0.025	0.00041

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol	76		52-132
321-60-8	2-Fluorobiphenyl	78		48-120
367-12-4	2-Fluorophenol	39		20-120
4165-60-0	Nitrobenzene-d5	78		46-120
4165-62-2	Phenol-d5	30		16-120
1718-51-0	p-Terphenyl-d14	88		67-150

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973V\20140508-31911.b\V0244.D
Lims ID: 480-58807-C-2-G Lab Sample ID: 480-58807-2
Client ID: P1-2(Sed)
Sample Type: Client
Inject. Date: 08-May-2014 21:46:30 ALS Bottle#: 19 Worklist Smp#: 19
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 480-0031911-019
Operator ID: hl Instrument ID: HP5973V

Method: \\Bufchrom\ChromData\HP5973V\20140508-31911.b\V-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 09-May-2014 01:39:01 Calib Date: 05-May-2014 14:41:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5973V\20140505-31759.b\V0093.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK012

First Level Reviewer: rimmera Date: 09-May-2014 01:39:01

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.072	6.077	-0.005	95	66669	40.0	
* 2 Naphthalene-d8	136	7.568	7.573	-0.005	99	217850	40.0	
* 3 Acenaphthene-d10	164	9.630	9.635	-0.005	92	139376	40.0	
* 4 Phenanthrene-d10	188	11.233	11.233	0.000	96	261087	40.0	
* 5 Chrysene-d12	240	13.631	13.637	-0.006	96	283018	40.0	
* 6 Perylene-d12	264	14.892	14.892	0.000	98	291023	40.0	
$ 7 2-Fluorophenol	112	4.549	4.549	0.000	87	40356	19.5	
$ 8 Phenol-d5	99	5.671	5.677	-0.005	0	42397	14.8	
$ 9 Nitrobenzene-d5	82	6.724	6.729	-0.005	89	107385	38.8	
$ 10 2-Fluorobiphenyl	172	8.845	8.850	-0.005	99	201074	39.1	
$ 11 2,4,6-Tribromophenol	330	10.522	10.527	-0.005	87	36312	38.0	
$ 12 p-Terphenyl-d14	244	12.712	12.718	-0.006	98	288720	44.1	
70 Pyridine	52		2.973					
88 1,4-Dichlorobenzene	146		6.099					
92 2-Methylphenol	108		6.398					
96 4-Methylphenol	108		6.585					
99 Hexachloroethane	117		6.665					
102 Nitrobenzene	77		6.750					
121 Hexachlorobutadiene	225		7.749					
137 2,4,6-Trichlorophenol	196		8.759					
138 2,4,5-Trichlorophenol	196		8.812					
156 2,4-Dinitrotoluene	165		9.886					
179 Hexachlorobenzene	284		10.848					
183 Pentachlorophenol	266		11.061					
S 233 3-Methylphenol	1		6.497					

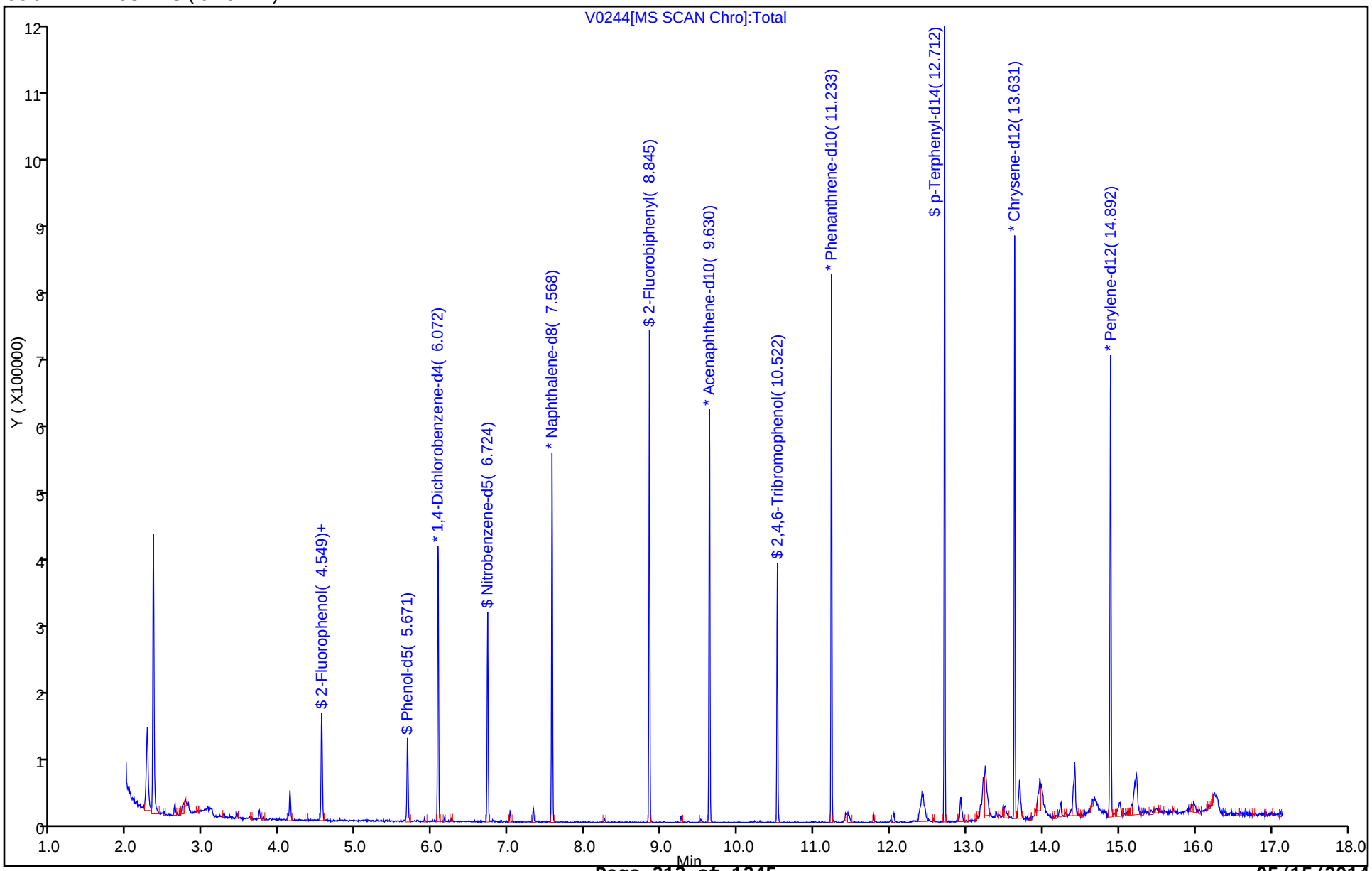
Report Date: 09-May-2014 01:39:01 Chrom Revision: 2.2 14-Apr-2014 13:40:08

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973V\20140508-31911.b\V0244.D

Injection Date:	08-May-2014 21:46:30	Instrument ID:	HP5973V	Operator ID:	hl
Lims ID:	480-58807-C-2-G	Lab Sample ID:	480-58807-2	Worklist Smp#:	19
Client ID:	P1-2(Sed)				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	19
Method:	V-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.: 480-58807-1

SDG No.:

Client Sample ID: P2-1(Sed) | Lab Sample ID: 480-58807-3

Matrix: Solid (TCLP) | Lab File ID: V0245.D

Analysis Method: 8270D | Date Collected: 04/25/2014 00:00

Extract. Method: 3510C | Date Extracted: 05/08/2014 06:29

Sample wt/vol: 250(mL) | Date Analyzed: 05/08/2014 22:10

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.: 180978 | Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
106-46-7	1,4-Dichlorobenzene	ND		0.010	0.00046
95-95-4	2,4,5-Trichlorophenol	ND		0.0050	0.00048
88-06-2	2,4,6-Trichlorophenol	ND		0.0050	0.00061
121-14-2	2,4-Dinitrotoluene	ND		0.0050	0.00045
95-48-7	2-Methylphenol	ND		0.0050	0.00040
108-39-4	3-Methylphenol	ND	*	0.010	0.00040
106-44-5	4-Methylphenol	ND	*	0.010	0.00036
118-74-1	Hexachlorobenzene	ND		0.0050	0.00051
87-68-3	Hexachlorobutadiene	ND		0.0050	0.00068
67-72-1	Hexachloroethane	ND		0.0050	0.00059
98-95-3	Nitrobenzene	ND		0.0050	0.00029
87-86-5	Pentachlorophenol	ND		0.010	0.0022
110-86-1	Pyridine	ND		0.025	0.00041

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol	78		52-132
321-60-8	2-Fluorobiphenyl	74		48-120
367-12-4	2-Fluorophenol	41		20-120
4165-60-0	Nitrobenzene-d5	75		46-120
4165-62-2	Phenol-d5	29		16-120
1718-51-0	p-Terphenyl-d14	86		67-150

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973V\20140508-31911.b\V0245.D
Lims ID: 480-58807-B-3-I Lab Sample ID: 480-58807-3
Client ID: P2-1(Sed)
Sample Type: Client
Inject. Date: 08-May-2014 22:10:30 ALS Bottle#: 20 Worklist Smp#: 20
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 480-0031911-020
Operator ID: hl Instrument ID: HP5973V

Method: \\Bufchrom\ChromData\HP5973V\20140508-31911.b\V-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 09-May-2014 02:03:02 Calib Date: 05-May-2014 14:41:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5973V\20140505-31759.b\V0093.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK012

First Level Reviewer: rimmera Date: 09-May-2014 02:03:02

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.077	6.077	0.000	93	72533	40.0	
* 2 Naphthalene-d8	136	7.568	7.573	-0.005	99	242061	40.0	
* 3 Acenaphthene-d10	164	9.635	9.635	0.000	92	160660	40.0	
* 4 Phenanthrene-d10	188	11.232	11.233	-0.001	96	289029	40.0	
* 5 Chrysene-d12	240	13.631	13.637	-0.006	97	327838	40.0	
* 6 Perylene-d12	264	14.892	14.892	0.000	98	330086	40.0	
$ 7 2-Fluorophenol	112	4.549	4.549	0.000	89	46323	20.6	
$ 8 Phenol-d5	99	5.671	5.677	-0.005	0	44958	14.5	
$ 9 Nitrobenzene-d5	82	6.724	6.729	-0.005	87	115740	37.6	
$ 10 2-Fluorobiphenyl	172	8.844	8.850	-0.006	100	218450	36.8	
$ 11 2,4,6-Tribromophenol	330	10.522	10.527	-0.005	89	41347	39.0	
$ 12 p-Terphenyl-d14	244	12.712	12.718	-0.006	98	328258	43.2	
70 Pyridine	52		2.973					
88 1,4-Dichlorobenzene	146		6.099					
92 2-Methylphenol	108		6.398					
96 4-Methylphenol	108		6.585					
99 Hexachloroethane	117		6.665					
102 Nitrobenzene	77		6.750					
121 Hexachlorobutadiene	225		7.749					
137 2,4,6-Trichlorophenol	196		8.759					
138 2,4,5-Trichlorophenol	196		8.812					
156 2,4-Dinitrotoluene	165		9.886					
179 Hexachlorobenzene	284		10.848					
183 Pentachlorophenol	266		11.061					
S 233 3-Methylphenol	1		6.497					

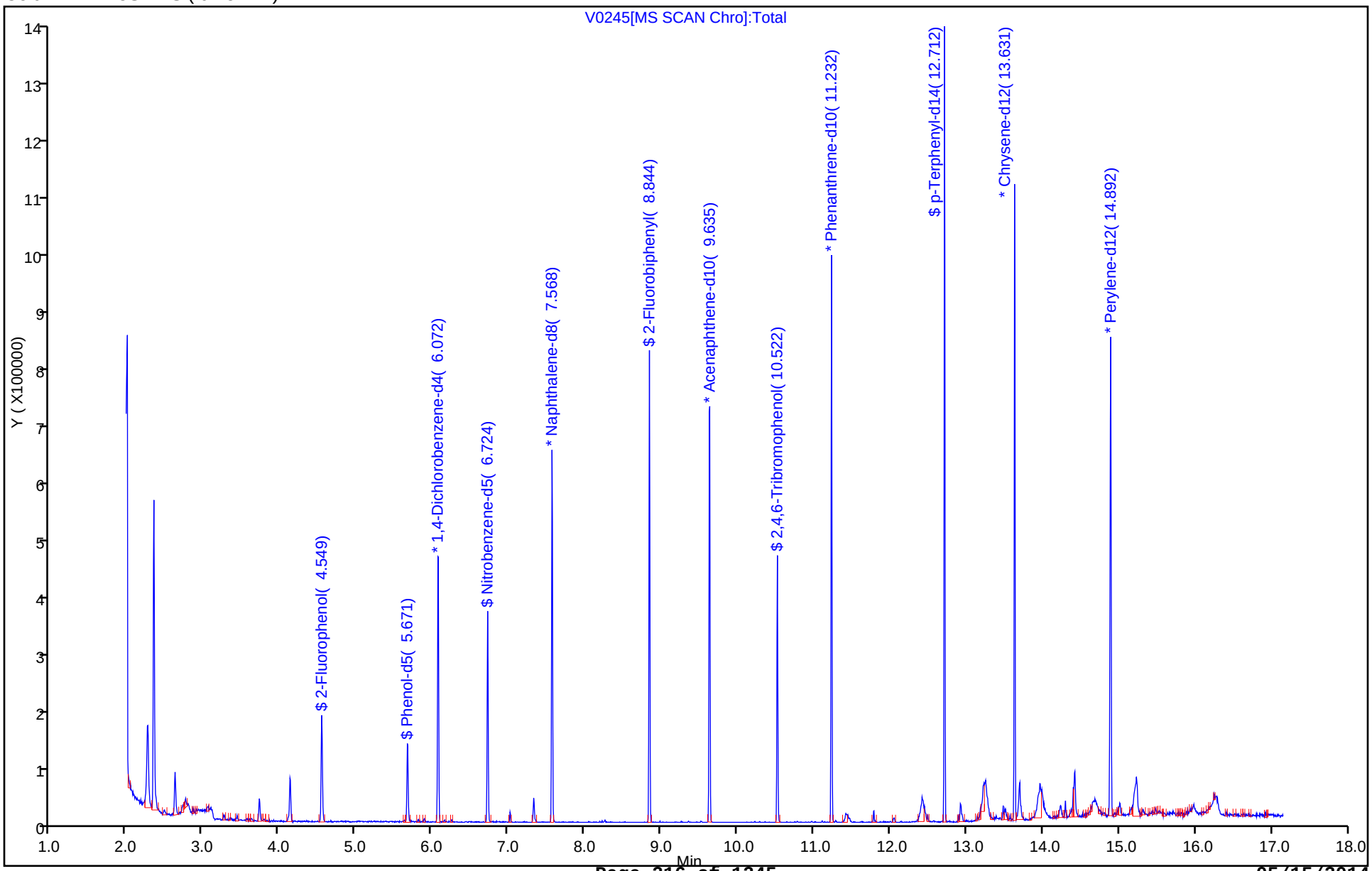
Report Date: 09-May-2014 02:03:03 Chrom Revision: 2.2 14-Apr-2014 13:40:08

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973V\20140508-31911.b\V0245.D

Injection Date:	08-May-2014 22:10:30	Instrument ID:	HP5973V	Operator ID:	hl
Lims ID:	480-58807-B-3-I	Lab Sample ID:	480-58807-3	Worklist Smp#:	20
Client ID:	P2-1(Sed)				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	20
Method:	V-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.: 480-58807-1

SDG No.:

Client Sample ID: P2-2(Sed) | Lab Sample ID: 480-58807-4

Matrix: Solid (TCLP) | Lab File ID: V0246.D

Analysis Method: 8270D | Date Collected: 04/25/2014 00:00

Extract. Method: 3510C | Date Extracted: 05/08/2014 06:29

Sample wt/vol: 250(mL) | Date Analyzed: 05/08/2014 22:35

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.: 180978 | Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
106-46-7	1,4-Dichlorobenzene	ND		0.010	0.00046
95-95-4	2,4,5-Trichlorophenol	ND		0.0050	0.00048
88-06-2	2,4,6-Trichlorophenol	ND		0.0050	0.00061
121-14-2	2,4-Dinitrotoluene	ND		0.0050	0.00045
95-48-7	2-Methylphenol	ND		0.0050	0.00040
108-39-4	3-Methylphenol	ND	*	0.010	0.00040
106-44-5	4-Methylphenol	ND	*	0.010	0.00036
118-74-1	Hexachlorobenzene	ND		0.0050	0.00051
87-68-3	Hexachlorobutadiene	ND		0.0050	0.00068
67-72-1	Hexachloroethane	ND		0.0050	0.00059
98-95-3	Nitrobenzene	ND		0.0050	0.00029
87-86-5	Pentachlorophenol	ND		0.010	0.0022
110-86-1	Pyridine	ND		0.025	0.00041

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol	77		52-132
321-60-8	2-Fluorobiphenyl	80		48-120
367-12-4	2-Fluorophenol	43		20-120
4165-60-0	Nitrobenzene-d5	82		46-120
4165-62-2	Phenol-d5	31		16-120
1718-51-0	p-Terphenyl-d14	86		67-150

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973V\20140508-31911.b\V0246.D
Lims ID: 480-58807-C-4-I Lab Sample ID: 480-58807-4
Client ID: P2-2(Sed)
Sample Type: Client
Inject. Date: 08-May-2014 22:35:30 ALS Bottle#: 21 Worklist Smp#: 21
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 480-0031911-021
Operator ID: hl Instrument ID: HP5973V

Method: \\Bufchrom\ChromData\HP5973V\20140508-31911.b\V-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 09-May-2014 02:04:50 Calib Date: 05-May-2014 14:41:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5973V\20140505-31759.b\V0093.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK012

First Level Reviewer: rimmera Date: 09-May-2014 02:04:50

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.077	6.077	0.000	94	70685	40.0	
* 2 Naphthalene-d8	136	7.568	7.573	-0.005	99	233401	40.0	
* 3 Acenaphthene-d10	164	9.630	9.635	-0.005	93	155192	40.0	
* 4 Phenanthrene-d10	188	11.233	11.233	0.000	96	288886	40.0	
* 5 Chrysene-d12	240	13.631	13.637	-0.006	97	317252	40.0	
* 6 Perylene-d12	264	14.892	14.892	0.000	99	324187	40.0	
$ 7 2-Fluorophenol	112	4.549	4.549	0.000	89	47313	21.6	
$ 8 Phenol-d5	99	5.671	5.677	-0.005	0	46602	15.4	
$ 9 Nitrobenzene-d5	82	6.724	6.729	-0.005	87	121678	41.0	
$ 10 2-Fluorobiphenyl	172	8.845	8.850	-0.005	99	229721	40.1	
$ 11 2,4,6-Tribromophenol	330	10.522	10.527	-0.005	88	40998	38.7	
$ 12 p-Terphenyl-d14	244	12.712	12.718	-0.006	98	316783	43.1	
70 Pyridine	52		2.973					
88 1,4-Dichlorobenzene	146		6.099					
92 2-Methylphenol	108		6.398					
96 4-Methylphenol	108		6.585					
99 Hexachloroethane	117		6.665					
102 Nitrobenzene	77		6.750					
121 Hexachlorobutadiene	225		7.749					
137 2,4,6-Trichlorophenol	196		8.759					
138 2,4,5-Trichlorophenol	196		8.812					
156 2,4-Dinitrotoluene	165		9.886					
179 Hexachlorobenzene	284		10.848					
183 Pentachlorophenol	266		11.061					
S 233 3-Methylphenol	1		6.497					

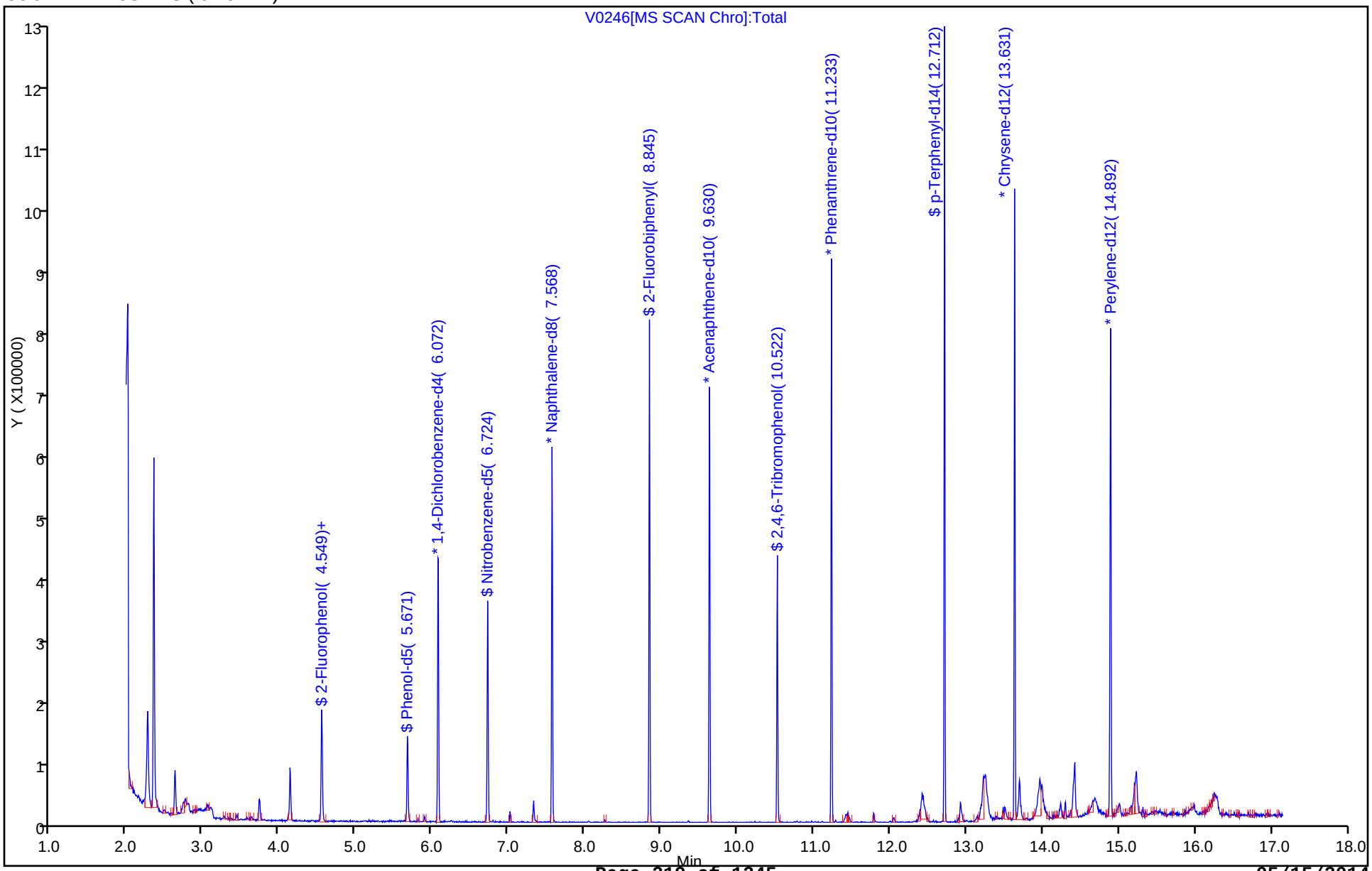
Report Date: 09-May-2014 02:04:50 Chrom Revision: 2.2 14-Apr-2014 13:40:08

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973V\20140508-31911.b\V0246.D

Injection Date:	08-May-2014 22:35:30	Instrument ID:	HP5973V	Operator ID:	hl
Lims ID:	480-58807-C-4-I	Lab Sample ID:	480-58807-4	Worklist Smp#:	21
Client ID:	P2-2(Sed)				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	21
Method:	V-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



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

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1 Analy Batch No.: 180025

SDG No.:

Instrument ID: HP5973V GC Column: RXI-5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/05/2014 08:54 Calibration End Date: 05/05/2014 11:00 Calibration ID: 18294

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-180025/3	V0080.D
Level 2	IC 480-180025/4	V0081.D
Level 3	ICIS 480-180025/5	V0082.D
Level 4	IC 480-180025/6	V0083.D
Level 5	IC 480-180025/7	V0084.D
Level 6	IC 480-180025/8	V0085.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	0.3482 0.4552	0.4590	0.4418	0.4684	0.4617	Ave		0.4391				10.0		15.0			
N-Nitrosodimethylamine	0.5977 0.7449	0.6533	0.6935	0.7101	0.7396	Ave		0.6899				8.1		15.0			
Pyridine	0.6401 0.9843	0.8766	0.9467	0.8492	0.9655	Ave		0.8771				15.0		15.0			
Phenol	1.7928 2.0010	1.8709	1.8500	1.9556	1.9557	Ave		1.9043			0.8000	4.1		15.0			
Aniline	2.0415 2.3041	2.1794	2.1149	2.2358	2.2487	Ave		2.1874				4.4		15.0			
Bis(2-chloroethyl)ether	1.3134 1.3846	1.3629	1.2913	1.3978	1.3857	Ave		1.3559			0.7000	3.2		15.0			
2-Chlorophenol	1.2565 1.3290	1.2748	1.2323	1.3074	1.3169	Ave		1.2862			0.8000	2.9		15.0			
1,3-Dichlorobenzene	1.4013 1.4710	1.4523	1.3795	1.4567	1.4730	Ave		1.4390				2.7		15.0			
1,4-Dichlorobenzene	1.5029 1.5387	1.4471	1.4337	1.5078	1.5131	Ave		1.4906				2.7		15.0			
Benzyl alcohol	0.9043 0.9764	0.9336	0.9327	0.9588	0.9559	Ave		0.9436				2.7		15.0			
1,2-Dichlorobenzene	1.3570 1.4190	1.4223	1.3443	1.3948	1.3857	Ave		1.3872				2.3		15.0			
2-Methylphenol	1.3454 1.3196	1.2365	1.2439	1.2958	1.2936	Ave		1.2891			0.7000	3.3		15.0			
bis (2-chloroisopropyl) ether	2.0205 1.9826	1.9930	1.9488	1.9925	1.9746	Ave		1.9853			0.0100	1.2		15.0			
Acetophenone	2.0096 2.1021	1.9542	1.9612	2.0589	2.0536	Ave		2.0233			0.0100	2.9		15.0			
N-Nitrosodi-n-propylamine	1.1275 1.1319	1.0890	1.0536	1.0943	1.1004	Ave		1.0994			0.5000	2.6		15.0			

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.: 480-58807-1 Analy Batch No.: 180025

SDG No.:

Instrument ID: HP5973V GC Column: RXI-5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/05/2014 08:54 Calibration End Date: 05/05/2014 11:00 Calibration ID: 18294

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								
4-Methylphenol	1.3245 1.3482	1.2601	1.2025	1.2976	1.2985	Ave		1.2885			0.6000	4.0		15.0			
Hexachloroethane	0.5898 0.6144	0.6195	0.5583	0.5787	0.5868	Ave		0.5912			0.3000	3.9		15.0			
Nitrobenzene	0.4985 0.5055	0.4931	0.5011	0.5088	0.5104	Ave		0.5029			0.2000	1.3		15.0			
Isophorone	0.8511 0.8212	0.8490	0.8302	0.8392	0.8241	Ave		0.8358			0.4000	1.5		15.0			
2-Nitrophenol	0.2018 0.1979	0.1891	0.1921	0.1996	0.2007	Ave		0.1969			0.1000	2.6		15.0			
2,4-Dimethylphenol	0.4355 0.4473	0.4469	0.4321	0.4394	0.4428	Ave		0.4407			0.2000	1.4		15.0			
Bis(2-chloroethoxy)methane	0.4035 0.4536	0.4417	0.4482	0.4585	0.4579	Ave		0.4439			0.3000	4.7		15.0			
2,4-Dichlorophenol	0.3190 0.3642	0.3504	0.3566	0.3656	0.3682	Ave		0.3540			0.2000	5.2		15.0			
1,2,4-Trichlorobenzene	0.4245 0.4479	0.4468	0.4200	0.4445	0.4439	Ave		0.4379				2.8		15.0			
Naphthalene	1.0365 1.1124	1.0383	1.0578	1.0783	1.1081	Ave		1.0719			0.7000	3.1		15.0			
4-Chloroaniline	0.4142 0.4640	0.4523	0.4552	0.4645	0.4662	Ave		0.4527			0.0100	4.3		15.0			
Hexachlorobutadiene	0.2538 0.3041	0.2698	0.2779	0.2871	0.2992	Ave		0.2820			0.0100	6.7		15.0			
4-Chloro-3-methylphenol	0.3515 0.4070	0.3666	0.3871	0.3965	0.4088	Ave		0.3862			0.2000	5.9		15.0			
2-Methylnaphthalene	0.7546 0.7931	0.7504	0.7471	0.7699	0.7791	Ave		0.7657			0.4000	2.4		15.0			
Hexachlorocyclopentadiene	0.1711 0.4209	0.2686	0.3302	0.3768	0.4016	Lin1	-1.651	0.4099			0.0500				0.9940		0.9900
1,2,4,5-Tetrachlorobenzene	0.7068 0.7646	0.6483	0.7137	0.7500	0.7453	Ave		0.7215			0.0100	5.8		15.0			
2,4,6-Trichlorophenol	0.4198 0.4636	0.4275	0.4498	0.4682	0.4545	Ave		0.4472			0.2000	4.4		15.0			
2,4,5-Trichlorophenol	0.4310 0.4849	0.4403	0.4778	0.4727	0.4784	Ave		0.4642			0.2000	4.9		15.0			
Biphenyl	1.3818 1.5363	1.3964	1.4323	1.4754	1.4690	Ave		1.4485			0.0100	3.9		15.0			
2-Chloronaphthalene	1.1203 1.2212	1.1301	1.1635	1.1943	1.1881	Ave		1.1696			0.8000	3.3		15.0			

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.: 480-58807-1 Analy Batch No.: 180025

SDG No.:

Instrument ID: HP5973V GC Column: RXI-5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/05/2014 08:54 Calibration End Date: 05/05/2014 11:00 Calibration ID: 18294

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								
2-Nitroaniline	0.3697 0.4221	0.4089	0.4201	0.4289	0.4135	Ave		0.4105			0.0100	5.2		15.0			
Dimethyl phthalate	1.3418 1.4383	1.3888	1.4359	1.4674	1.3881	Ave		1.4100			0.0100	3.2		15.0			
1,3-Dinitrobenzene	0.1473 0.1650	0.1611	0.1593	0.1713	0.1728	Ave		0.1628				5.7		15.0			
2,6-Dinitrotoluene	0.3412 0.3477	0.2904	0.3402	0.3392	0.3359	Ave		0.3324				6.3		15.0			
Acenaphthylene	1.7388 1.8541	1.7094	1.7836	1.8116	1.7940	Ave		1.7819			0.9000	2.9		15.0			
3-Nitroaniline	0.3225 0.3280	0.3011	0.3147	0.3281	0.3114	Ave		0.3176			0.0100	3.3		15.0			
Acenaphthene	1.0811 1.1985	1.0935	1.1597	1.1688	1.1584	Ave		1.1433			0.9000	4.0		15.0			
2,4-Dinitrophenol	0.1842 0.2705	0.2041	0.2452	0.2581	0.2596	Ave		0.2370			0.0100	15.0		15.0			
4-Nitrophenol	0.2131 0.3115	0.2215	0.2654	0.2986	0.3044	Lin1	-1.541	0.3072			0.0100				0.9960		0.9900
Dibenzofuran	1.6092 1.8844	1.5632	1.7079	1.8058	1.8041	Ave		1.7291			0.8000	7.2		15.0			
2,4-Dinitrotoluene	0.4250 0.5201	0.4152	0.4760	0.5092	0.4887	Ave		0.4724			0.2000	9.2		15.0			
2,3,4,6-Tetrachlorophenol	0.3243 0.4603	0.3566	0.4076	0.4401	0.4297	Ave		0.4031			0.0100	13.0		15.0			
Diethyl phthalate	1.2736 1.4776	1.2707	1.4395	1.4564	1.4579	Ave		1.3959			0.0100	6.9		15.0			
Fluorene	1.2136 1.4674	1.1511	1.3051	1.3608	1.4051	Ave		1.3172			0.9000	9.0		15.0			
4-Chlorophenyl phenyl ether	0.6726 0.8289	0.6937	0.7416	0.7651	0.7963	Ave		0.7497			0.4000	8.0		15.0			
4-Nitroaniline	0.2640 0.2950	0.2607	0.2781	0.2929	0.2866	Ave		0.2795			0.0100	5.2		15.0			
4,6-Dinitro-2-methylphenol	0.1702 0.2158	0.1753	0.1866	0.1956	0.2079	Ave		0.1919			0.0100	9.4		15.0			
1,2-Diphenylhydrazine	1.5285 1.6341	1.4981	1.5919	1.6512	1.6044	Ave		1.5847				3.8		15.0			
trans-Azobenzene	0.9535 1.0424	0.9139	0.9393	0.9971	1.0247	Ave		0.9785				5.2		15.0			
4-Bromophenyl phenyl ether	0.2456 0.3180	0.2659	0.2716	0.2857	0.2976	Ave		0.2807			0.1000	9.1		15.0			

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.: 480-58807-1 Analy Batch No.: 180025

SDG No.:

Instrument ID: HP5973V GC Column: RXI-5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/05/2014 08:54 Calibration End Date: 05/05/2014 11:00 Calibration ID: 18294

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								
Hexachlorobenzene	0.2836 0.3396	0.2746	0.2895	0.3125	0.3283	Ave		0.3047			0.1000	8.6		15.0			
Pentachlorophenol	0.1159 0.2264	0.1486	0.1713	0.1954	0.2144	Lin1	-1.542	0.2168			0.0500				0.9920		0.9900
Phenanthrene	1.0181 1.1759	1.0060	1.0349	1.1294	1.1484	Ave		1.0855			0.7000	6.8		15.0			
Anthracene	1.0320 1.1842	1.0213	1.0414	1.1096	1.1494	Ave		1.0897			0.7000	6.3		15.0			
Carbazole	0.9093 1.0862	0.9289	0.9703	1.0350	1.0255	Ave		0.9925			0.0100	6.9		15.0			
Di-n-butyl phthalate	1.1437 1.3265	1.2116	1.2210	1.2565	1.2796	Ave		1.2398			0.0100	5.1		15.0			
Fluoranthene	1.1777 1.6618	1.3217	1.4203	1.5524	1.5845	Ave		1.4531			0.6000	12.0		15.0			
Pyrene	1.3818 1.3754	1.3020	1.3420	1.3453	1.3181	Ave		1.3441			0.6000	2.3		15.0			
Butyl benzyl phthalate	0.5015 0.5027	0.4794	0.4863	0.4880	0.4808	Ave		0.4898			0.0100	2.1		15.0			
Bis(2-ethylhexyl) phthalate	0.7048 0.8011	0.6908	0.7179	0.7465	0.7679	Ave		0.7382			0.0100	5.6		15.0			
Benzo[a]anthracene	1.1954 1.3086	1.1654	1.2150	1.2316	1.2851	Ave		1.2335			0.8000	4.4		15.0			
Chrysene	0.9823 1.0908	1.0197	1.0033	1.0354	1.0646	Ave		1.0327			0.7000	3.9		15.0			
Di-n-octyl phthalate	1.0730 1.1417	1.0443	1.0837	1.1164	1.0886	Ave		1.0913			0.0100	3.1		15.0			
Benzo[b]fluoranthene	1.2583 1.3408	1.2463	1.2889	1.3032	1.3749	Ave		1.3021			0.7000	3.8		15.0			
Benzo[k]fluoranthene	1.1771 1.3706	1.1894	1.1766	1.2796	1.2825	Ave		1.2460			0.7000	6.3		15.0			
Benzo[a]pyrene	1.1136 1.2525	1.0984	1.1486	1.2051	1.2401	Ave		1.1764			0.7000	5.6		15.0			
Indeno[1,2,3-cd]pyrene	1.1849 1.3969	1.2041	1.2288	1.3275	1.3896	Ave		1.2886			0.5000	7.4		15.0			
Dibenz(a,h)anthracene	1.0040 1.1994	0.9881	1.0480	1.1219	1.1873	Ave		1.0914				8.4		15.0			
Benzo[g,h,i]perylene	0.9908 1.0638	0.9403	0.9658	1.0299	1.0487	Ave		1.0066			0.5000	4.8		15.0			
2-Fluorophenol	1.1447 1.3142	1.1949	1.2216	1.2859	1.2892	Ave		1.2418				5.3		15.0			

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.: 480-58807-1 Analy Batch No.: 180025

SDG No.:

Instrument ID: HP5973V GC Column: RXI-5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/05/2014 08:54 Calibration End Date: 05/05/2014 11:00 Calibration ID: 18294

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								
Phenol-d5	1.6444 1.7917	1.6287	1.6887	1.7482	1.7798	Ave		1.7136				4.1		15.0			
Nitrobenzene-d5	0.5282 0.5077	0.4976	0.4957	0.5098	0.5105	Ave		0.5082				2.3		15.0			
2-Fluorobiphenyl	1.4153 1.5475	1.3921	1.4628	1.5394	1.5069	Ave		1.4773				4.4		15.0			
2,4,6-Tribromophenol	0.1357 0.1688	0.1320	0.1368	0.1466	0.1594	Ave		0.1465				10.0		15.0			
p-Terphenyl-d14	0.9039 0.9808	0.8962	0.9269	0.9267	0.9219	Ave		0.9261				3.2		15.0			

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.: 480-58807-1 Analy Batch No.: 180025

SDG No.:

Instrument ID: HP5973V GC Column: RXI-5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/05/2014 08:54 Calibration End Date: 05/05/2014 11:00 Calibration ID: 18294

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-180025/3	V0080.D
Level 2	IC 480-180025/4	V0081.D
Level 3	ICIS 480-180025/5	V0082.D
Level 4	IC 480-180025/6	V0083.D
Level 5	IC 480-180025/7	V0084.D
Level 6	IC 480-180025/8	V0085.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	3025 118607	15755	36086	59964	104784	5.00 160	20.0	50.0	80.0	120
N-Nitrosodimethylamine	DCB	Ave	5193 194081	22428	56639	90907	167840	5.00 160	20.0	50.0	80.0	120
Pyridine	DCB	Ave	5561 256468	30092	77320	108709	219099	5.00 160	20.0	50.0	80.0	120
Phenol	DCB	Ave	15576 521364	64225	151101	250341	443830	5.00 160	20.0	50.0	80.0	120
Aniline	DCB	Ave	17737 600351	74815	172737	286211	510314	5.00 160	20.0	50.0	80.0	120
Bis(2-chloroethyl)ether	DCB	Ave	11411 360768	46784	105468	178933	314472	5.00 160	20.0	50.0	80.0	120
2-Chlorophenol	DCB	Ave	10917 346268	43760	100649	167362	298863	5.00 160	20.0	50.0	80.0	120
1,3-Dichlorobenzene	DCB	Ave	12175 383275	49853	112674	186473	334289	5.00 160	20.0	50.0	80.0	120
1,4-Dichlorobenzene	DCB	Ave	13057 400924	49676	117100	193020	343378	5.00 160	20.0	50.0	80.0	120
Benzyl alcohol	DCB	Ave	7857 254416	32050	76179	122736	216923	5.00 160	20.0	50.0	80.0	120
1,2-Dichlorobenzene	DCB	Ave	11790 369733	48823	109797	178555	314475	5.00 160	20.0	50.0	80.0	120
2-Methylphenol	DCB	Ave	11689 343831	42447	101597	165879	293563	5.00 160	20.0	50.0	80.0	120
bis (2-chloroisopropyl) ether	DCB	Ave	17554 516581	68415	159166	255069	448103	5.00 160	20.0	50.0	80.0	120
Acetophenone	DCB	Ave	17460 547714	67083	160181	263569	466050	5.00 160	20.0	50.0	80.0	120
N-Nitrosodi-n-propylamine	DCB	Ave	9796 294926	37382	86051	140081	249718	5.00 160	20.0	50.0	80.0	120
4-Methylphenol	DCB	Ave	11507 351272	43257	98211	166103	294683	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.: 480-58807-1 Analy Batch No.: 180025

SDG No.:

Instrument ID: HP5973V GC Column: RXI-5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/05/2014 08:54 Calibration End Date: 05/05/2014 11:00 Calibration ID: 18294

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
Hexachloroethane	DCB	Ave	5124 160093	21266	45599	74077	133156	5.00 160	20.0	50.0	80.0	120
Nitrobenzene	NPT	Ave	14663 452069	58545	136724	223538	389764	5.00 160	20.0	50.0	80.0	120
Isophorone	NPT	Ave	25038 734387	100801	226535	368719	629227	5.00 160	20.0	50.0	80.0	120
2-Nitrophenol	NPT	Ave	5937 176987	22451	52405	87683	153265	5.00 160	20.0	50.0	80.0	120
2,4-Dimethylphenol	NPT	Ave	12812 400034	53057	117905	193062	338132	5.00 160	20.0	50.0	80.0	120
Bis(2-chloroethoxy)methane	NPT	Ave	11870 405671	52435	122297	201445	349652	5.00 160	20.0	50.0	80.0	120
2,4-Dichlorophenol	NPT	Ave	9383 325732	41599	97291	160638	281181	5.00 160	20.0	50.0	80.0	120
1,2,4-Trichlorobenzene	NPT	Ave	12488 400556	53044	114590	195284	338984	5.00 160	20.0	50.0	80.0	120
Naphthalene	NPT	Ave	30490 994740	123272	288633	473774	846104	5.00 160	20.0	50.0	80.0	120
4-Chloroaniline	NPT	Ave	12185 414962	53704	124198	204105	355966	5.00 160	20.0	50.0	80.0	120
Hexachlorobutadiene	NPT	Ave	7465 271968	32035	75835	126136	228474	5.00 160	20.0	50.0	80.0	120
4-Chloro-3-methylphenol	NPT	Ave	10340 363992	43519	105630	174211	312114	5.00 160	20.0	50.0	80.0	120
2-Methylnaphthalene	NPT	Ave	22197 709205	89093	203863	338293	594931	5.00 160	20.0	50.0	80.0	120
Hexachlorocyclopentadiene	ANT	Lin1	3320 248149	21376	58580	107429	207588	5.00 160	20.0	50.0	80.0	120
1,2,4,5-Tetrachlorobenzene	ANT	Ave	13713 450786	51587	126628	213854	385185	5.00 160	20.0	50.0	80.0	120
2,4,6-Trichlorophenol	ANT	Ave	8144 273333	34016	79805	133504	234919	5.00 160	20.0	50.0	80.0	120
2,4,5-Trichlorophenol	ANT	Ave	8362 285855	35037	84773	134790	247270	5.00 160	20.0	50.0	80.0	120
Biphenyl	ANT	Ave	26809 905769	111110	254131	420681	759270	5.00 160	20.0	50.0	80.0	120
2-Chloronaphthalene	ANT	Ave	21735 719968	89925	206426	340542	614073	5.00 160	20.0	50.0	80.0	120
2-Nitroaniline	ANT	Ave	7173 248868	32534	74543	122294	213728	5.00 160	20.0	50.0	80.0	120
Dimethyl phthalate	ANT	Ave	26033 847981	110504	254768	418388	717441	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.: 480-58807-1 Analy Batch No.: 180025

SDG No.:

Instrument ID: HP5973V GC Column: RXI-5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/05/2014 08:54 Calibration End Date: 05/05/2014 11:00 Calibration ID: 18294

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
1,3-Dinitrobenzene	NPT	Ave	4334 147593	19125	43460	75278	131957	5.00 160	20.0	50.0	80.0	120
2,6-Dinitrotoluene	ANT	Ave	6619 205010	23108	60355	96712	173591	5.00 160	20.0	50.0	80.0	120
Acenaphthylene	ANT	Ave	33736 1093138	136019	316449	516552	927252	5.00 160	20.0	50.0	80.0	120
3-Nitroaniline	ANT	Ave	6256 193389	23960	55827	93547	160931	5.00 160	20.0	50.0	80.0	120
Acenaphthene	ANT	Ave	20975 706610	87014	205759	333247	598721	5.00 160	20.0	50.0	80.0	120
2,4-Dinitrophenol	ANT	Ave	7148 318936	32480	87011	147200	268365	10.0 320	40.0	100	160	240
4-Nitrophenol	ANT	Lin1	8267 367326	35255	94182	170294	314635	10.0 320	40.0	100	160	240
Dibenzofuran	ANT	Ave	31220 1111009	124382	303017	514870	932463	5.00 160	20.0	50.0	80.0	120
2,4-Dinitrotoluene	ANT	Ave	8245 306648	33036	84459	145189	252597	5.00 160	20.0	50.0	80.0	120
2,3,4,6-Tetrachlorophenol	ANT	Ave	6291 271355	28377	72318	125473	222100	5.00 160	20.0	50.0	80.0	120
Diethyl phthalate	ANT	Ave	24709 871156	101108	255400	415261	753504	5.00 160	20.0	50.0	80.0	120
Fluorene	ANT	Ave	23545 865118	91592	231562	388001	726233	5.00 160	20.0	50.0	80.0	120
4-Chlorophenyl phenyl ether	ANT	Ave	13050 488693	55197	131571	218161	411546	5.00 160	20.0	50.0	80.0	120
4-Nitroaniline	ANT	Ave	5121 173915	20746	49334	83514	148117	5.00 160	20.0	50.0	80.0	120
4,6-Dinitro-2-methylphenol	PHN	Ave	10584 398862	45724	112238	184682	336414	10.0 320	40.0	100	160	240
1,2-Diphenylhydrazine	ANT	Ave	29655 963446	119205	282435	470806	829235	5.00 160	20.0	50.0	80.0	120
trans-Azobenzene	PHN	Ave	29655 963446	119205	282435	470806	829235	5.00 160	20.0	50.0	80.0	120
4-Bromophenyl phenyl ether	PHN	Ave	7637 293879	34682	81681	134877	240847	5.00 160	20.0	50.0	80.0	120
Hexachlorobenzene	PHN	Ave	8821 313850	35816	87049	147530	265710	5.00 160	20.0	50.0	80.0	120
Pentachlorophenol	PHN	Lin1	7209 418434	38758	103006	184521	346955	10.0 320	40.0	100	160	240
Phenanthrene	PHN	Ave	31663 1086814	131210	311202	533290	929364	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.: 480-58807-1 Analy Batch No.: 180025

SDG No.:

Instrument ID: HP5973V GC Column: RXI-5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/05/2014 08:54 Calibration End Date: 05/05/2014 11:00 Calibration ID: 18294

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
Anthracene	PHN	Ave	32096 1094533	133214	313148	523923	930152	5.00 160	20.0	50.0	80.0	120
Carbazole	PHN	Ave	28279 1003890	121157	291774	488691	829872	5.00 160	20.0	50.0	80.0	120
Di-n-butyl phthalate	PHN	Ave	35570 1226015	158032	367164	593264	1035565	5.00 160	20.0	50.0	80.0	120
Fluoranthene	PHN	Ave	36628 1535867	172392	427093	732999	1282305	5.00 160	20.0	50.0	80.0	120
Pyrene	CRY	Ave	37735 1506187	169354	421563	710445	1260762	5.00 160	20.0	50.0	80.0	120
Butyl benzyl phthalate	CRY	Ave	13694 550493	62356	152779	257706	459920	5.00 160	20.0	50.0	80.0	120
Bis(2-ethylhexyl) phthalate	CRY	Ave	19246 877307	89852	225530	394230	734503	5.00 160	20.0	50.0	80.0	120
Benzo[a]anthracene	CRY	Ave	32644 1433037	151585	381680	650404	1229164	5.00 160	20.0	50.0	80.0	120
Chrysene	CRY	Ave	26826 1194470	132629	315177	546796	1018246	5.00 160	20.0	50.0	80.0	120
Di-n-octyl phthalate	CRY	Ave	29301 1250291	135830	340442	589575	1041264	5.00 160	20.0	50.0	80.0	120
Benzo[b]fluoranthene	PRY	Ave	31930 1334352	144744	366128	608956	1151656	5.00 160	20.0	50.0	80.0	120
Benzo[k]fluoranthene	PRY	Ave	29870 1363982	138136	334229	597900	1074311	5.00 160	20.0	50.0	80.0	120
Benzo[a]pyrene	PRY	Ave	28259 1246446	127567	326281	563115	1038750	5.00 160	20.0	50.0	80.0	120
Indeno[1,2,3-cd]pyrene	PRY	Ave	30068 1390191	139843	349056	620306	1164030	5.00 160	20.0	50.0	80.0	120
Dibenz(a,h)anthracene	PRY	Ave	25478 1193649	114753	297696	524217	994523	5.00 160	20.0	50.0	80.0	120
Benzo[g,h,i]perylene	PRY	Ave	25142 1058666	109204	274352	481252	878474	5.00 160	20.0	50.0	80.0	120
2-Fluorophenol	DCB	Ave	9945 342422	41020	99773	164614	292575	5.00 160	20.0	50.0	80.0	120
Phenol-d5	DCB	Ave	14287 466841	55910	137921	223786	403910	5.00 160	20.0	50.0	80.0	120
Nitrobenzene-d5	NPT	Ave	15537 454017	59075	135250	223979	389814	5.00 160	20.0	50.0	80.0	120
2-Fluorobiphenyl	ANT	Ave	27458 912341	110772	259538	438932	778836	5.00 160	20.0	50.0	80.0	120
2,4,6-Tribromophenol	PHN	Ave	4221 156041	17217	41132	69203	128987	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.: 480-58807-1 Analy Batch No.: 180025

SDG No.:

Instrument ID: HP5973V GC Column: RXI-5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/05/2014 08:54 Calibration End Date: 05/05/2014 11:00 Calibration ID: 18294

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
p-Terphenyl-d14	CRY	Ave	24683 1074081	116575	291184	489377	881762	5.00 160	20.0	50.0	80.0	120

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973V\20140505-31759.b\V0080.D
Lims ID: IC 8270 - 5
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 05-May-2014 08:54:30 ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 480-0031759-003
Operator ID: hl Instrument ID: HP5973V
Sublist: chrom-V-8270*sub41

Method: \\Bufchrom\ChromData\HP5973V\20140505-31759.b\V-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 05-May-2014 15:03:45 Calib Date: 05-May-2014 14:41:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5973V\20140505-31759.b\V0093.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK009

First Level Reviewer: lyh Date: 05-May-2014 15:03:45

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	6.083	6.077	0.006	93	69505	40.0	40.0	
* 2 Naphthalene-d8	136	7.573	7.573	0.000	99	235335	40.0	40.0	
* 3 Acenaphthene-d10	164	9.641	9.635	0.006	90	155211	40.0	40.0	
* 4 Phenanthrene-d10	188	11.238	11.232	0.006	96	248801	40.0	40.0	
* 5 Chrysene-d12	240	13.637	13.636	0.001	96	218467	40.0	40.0	
* 6 Perylene-d12	264	14.897	14.892	0.005	98	203010	40.0	40.0	
$ 7 2-Fluorophenol	112	4.560	4.555	0.005	28	9945	5.00	4.61	
$ 8 Phenol-d5	99	5.677	5.677	0.000	0	14287	5.00	4.80	
$ 9 Nitrobenzene-d5	82	6.729	6.729	0.000	58	15537	5.00	5.20	
$ 10 2-Fluorobiphenyl	172	8.850	8.850	0.000	78	27458	5.00	4.79	
$ 11 2,4,6-Tribromophenol	330	10.527	10.527	0.000	7	4221	5.00	4.63	
$ 12 p-Terphenyl-d14	244	12.718	12.718	0.000	80	24683	5.00	4.88	
68 1,4-Dioxane	88	2.610	2.610	0.000	18	3025	5.00	3.97	
69 N-Nitrosodimethylamine	42	2.936	2.931	0.005	47	5193	5.00	4.33	
70 Pyridine	52	3.000	2.984	0.016	60	5561	5.00	3.65	
81 Phenol	94	5.693	5.693	0.000	73	15576	5.00	4.71	
82 Aniline	93	5.698	5.693	0.005	64	17737	5.00	4.67	
83 Bis(2-chloroethyl)ether	93	5.773	5.773	0.000	63	11411	5.00	4.84	
84 2-Chlorophenol	128	5.842	5.842	0.000	76	10917	5.00	4.88	
87 1,3-Dichlorobenzene	146	6.013	6.013	0.000	71	12175	5.00	4.87	
88 1,4-Dichlorobenzene	146	6.099	6.099	0.000	64	13057	5.00	5.04	
90 Benzyl alcohol	108	6.248	6.248	0.000	71	7857	5.00	4.79	
91 1,2-Dichlorobenzene	146	6.275	6.275	0.000	77	11790	5.00	4.89	
92 2-Methylphenol	108	6.398	6.398	0.000	84	11689	5.00	5.22	
93 2,2'-oxybis[1-chloropropan	45	6.408	6.408	0.000	79	17554	5.00	5.09	
94 Acetophenone	105	6.553	6.558	-0.005	86	17460	5.00	4.97	
95 N-Nitrosodi-n-propylamine	70	6.558	6.563	-0.005	77	9796	5.00	5.13	
96 4-Methylphenol	108	6.585	6.585	0.000	78	11507	5.00	5.14	
99 Hexachloroethane	117	6.670	6.670	0.000	74	5124	5.00	4.99	
102 Nitrobenzene	77	6.750	6.756	-0.006	74	14663	5.00	4.96	
106 Isophorone	82	7.039	7.039	0.000	70	25038	5.00	5.09	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
107 2-Nitrophenol	139	7.130	7.130	0.000	62	5937	5.00	5.13	
108 2,4-Dimethylphenol	107	7.204	7.204	0.000	73	12812	5.00	4.94	
111 Bis(2-chloroethoxy)methane	93	7.301	7.301	0.000	70	11870	5.00	4.55	
114 2,4-Dichlorophenol	162	7.429	7.429	0.000	61	9383	5.00	4.51	
117 1,2,4-Trichlorobenzene	180	7.509	7.509	0.000	58	12488	5.00	4.85	
118 Naphthalene	128	7.600	7.600	0.000	71	30490	5.00	4.83	
119 4-Chloroaniline	127	7.675	7.675	0.000	68	12185	5.00	4.57	
121 Hexachlorobutadiene	225	7.749	7.749	0.000	65	7465	5.00	4.50	
129 4-Chloro-3-methylphenol	107	8.273	8.268	0.005	70	10340	5.00	4.55	
131 2-Methylnaphthalene	142	8.412	8.412	0.000	74	22197	5.00	4.93	
134 Hexachlorocyclopentadiene	237	8.599	8.599	0.000	1	3320	5.00	6.11	
135 1,2,4,5-Tetrachlorobenzene	216	8.610	8.609	0.001	62	13713	5.00	4.90	
137 2,4,6-Trichlorophenol	196	8.759	8.759	0.000	37	8144	5.00	4.69	
138 2,4,5-Trichlorophenol	196	8.823	8.812	0.011	62	8362	5.00	4.64	
140 1,1'-Biphenyl	154	8.962	8.967	-0.005	86	26809	5.00	4.77	
141 2-Chloronaphthalene	162	8.983	8.983	0.000	74	21735	5.00	4.79	
143 2-Nitroaniline	65	9.117	9.117	0.000	15	7173	5.00	4.50	
146 Dimethyl phthalate	163	9.341	9.347	-0.006	87	26033	5.00	4.76	
148 1,3-Dinitrobenzene	168	9.368	9.379	-0.011	49	4334	5.00	4.52	
149 2,6-Dinitrotoluene	165	9.405	9.411	-0.006	52	6619	5.00	5.13	
150 Acenaphthylene	152	9.470	9.470	0.000	81	33736	5.00	4.88	
151 3-Nitroaniline	138	9.609	9.608	0.000	63	6256	5.00	5.08	
152 Acenaphthene	153	9.673	9.678	-0.005	83	20975	5.00	4.73	
153 2,4-Dinitrophenol	184	9.737	9.742	-0.005	41	7148	10.0	7.77	
154 4-Nitrophenol	109	9.876	9.865	0.011	40	8267	10.0	12.0	
155 Dibenzofuran	168	9.876	9.881	-0.005	75	31220	5.00	4.65	
156 2,4-Dinitrotoluene	165	9.881	9.886	-0.005	53	8245	5.00	4.50	
158 2,3,4,6-Tetrachlorophenol	232	10.036	10.036	0.000	3	6291	5.00	4.02	
161 Diethyl phthalate	149	10.153	10.159	-0.006	86	24709	5.00	4.56	
162 Fluorene	166	10.260	10.266	-0.006	85	23545	5.00	4.61	
163 4-Chlorophenyl phenyl ethe	204	10.271	10.271	0.000	73	13050	5.00	4.49	
164 4-Nitroaniline	138	10.298	10.308	-0.010	33	5121	5.00	4.72	
165 4,6-Dinitro-2-methylphenol	198	10.335	10.340	-0.005	65	10584	10.0	8.87	
171 Azobenzene	77	10.437	10.442	-0.005	93	29655	5.00	4.87	
170 1,2-Diphenylhydrazine	77	10.437	10.442	-0.005	96	29655	5.00	4.82	
175 4-Bromophenyl phenyl ether	248	10.789	10.789	0.000	50	7637	5.00	4.37	
179 Hexachlorobenzene	284	10.848	10.848	0.000	66	8821	5.00	4.65	
183 Pentachlorophenol	266	11.062	11.062	0.000	14	7209	10.0	12.5	
188 Phenanthrene	178	11.259	11.259	0.000	86	31663	5.00	4.69	
189 Anthracene	178	11.307	11.313	-0.006	87	32096	5.00	4.74	
192 Carbazole	167	11.473	11.478	-0.005	72	28279	5.00	4.58	
195 Di-n-butyl phthalate	149	11.810	11.809	0.001	94	35570	5.00	4.61	
201 Fluoranthene	202	12.376	12.381	-0.005	87	36628	5.00	4.05	
204 Pyrene	202	12.579	12.584	-0.005	97	37735	5.00	5.14	
210 Butyl benzyl phthalate	149	13.140	13.140	0.000	84	13694	5.00	5.12	
217 Benzo[a]anthracene	228	13.626	13.631	-0.005	89	32644	5.00	4.85	
216 Bis(2-ethylhexyl) phthalat	149	13.626	13.631	-0.005	80	19246	5.00	4.77	
218 Chrysene	228	13.658	13.663	-0.005	83	26826	5.00	4.76	
220 Di-n-octyl phthalate	149	14.165	14.165	0.000	86	29301	5.00	4.92	
221 Benzo[b]fluoranthene	252	14.539	14.545	-0.006	80	31930	5.00	4.83	
222 Benzo[k]fluoranthene	252	14.566	14.571	-0.005	87	29870	5.00	4.72	
225 Benzo[a]pyrene	252	14.844	14.849	-0.005	47	28259	5.00	4.73	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
227 Indeno[1,2,3-cd]pyrene	276	15.987	16.003	-0.016	86	30068	5.00	4.60	
228 Dibenz(a,h)anthracene	278	15.992	16.003	-0.011	39	25478	5.00	4.60	
229 Benzo[g,h,i]perylene	276	16.302	16.318	-0.016	66	25142	5.00	4.92	
265 n-Octadecane	57		0.000						
263 n-Decane	57		0.000						
251 1-Methylnaphthalene	142		0.000						
256 Hexadecane	57		0.000						
S 233 3-Methylphenol	1				0		5.00	5.14	
S 234 3 & 4 Methylphenol	108				0			5.14	
S 232 Total Cresols	1				0			10.4	

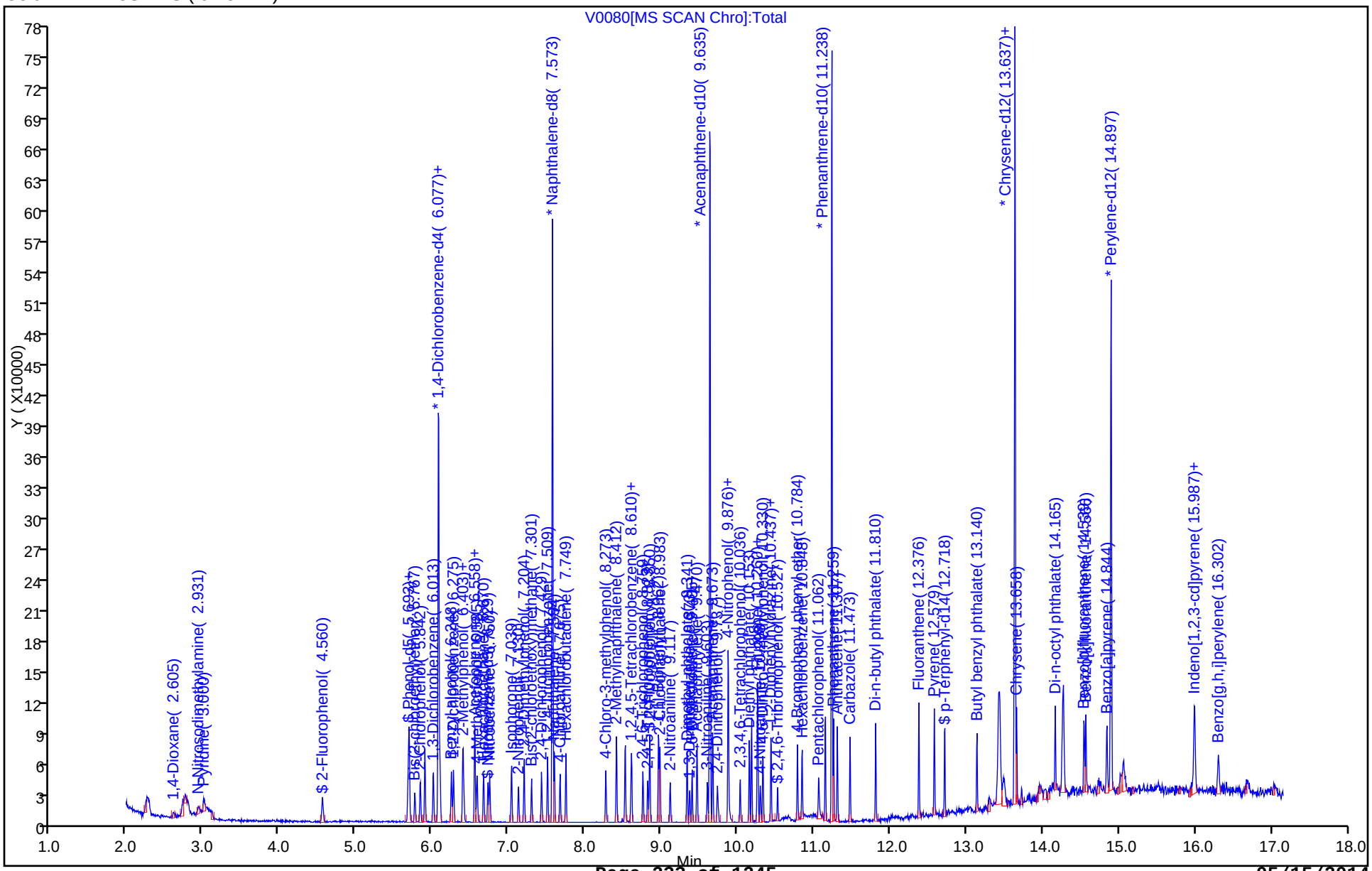
Report Date: 05-May-2014 15:03:45 Chrom Revision: 2.2 14-Apr-2014 13:40:08

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973V\20140505-31759.b\V0080.D

Injection Date:	05-May-2014 08:54:30	Instrument ID:	HP5973V	Operator ID:	hl
Lims ID:	IC 8270 - 5			Worklist Smp#:	3
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	V-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973V\20140505-31759.b\V0081.D
Lims ID: IC 8270 - 20
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 05-May-2014 09:23:30 ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 480-0031759-004
Operator ID: hl Instrument ID: HP5973V
Sublist: chrom-V-8270*sub41

Method: \\Bufchrom\ChromData\HP5973V\20140505-31759.b\V-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 05-May-2014 15:03:48 Calib Date: 05-May-2014 14:41:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5973V\20140505-31759.b\V0093.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK009

First Level Reviewer: lyh Date: 05-May-2014 15:03:48

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	6.083	6.077	0.006	94	68656	40.0	40.0	
* 2 Naphthalene-d8	136	7.573	7.573	0.000	99	237447	40.0	40.0	
* 3 Acenaphthene-d10	164	9.640	9.635	0.005	91	159141	40.0	40.0	
* 4 Phenanthrene-d10	188	11.238	11.232	0.006	96	260860	40.0	40.0	
* 5 Chrysene-d12	240	13.636	13.636	0.000	97	260146	40.0	40.0	
* 6 Perylene-d12	264	14.897	14.892	0.005	98	232281	40.0	40.0	
$ 7 2-Fluorophenol	112	4.560	4.555	0.005	84	41020	20.0	19.2	
$ 8 Phenol-d5	99	5.682	5.677	0.005	0	55910	20.0	19.0	
$ 9 Nitrobenzene-d5	82	6.729	6.729	0.000	87	59075	20.0	19.6	
$ 10 2-Fluorobiphenyl	172	8.850	8.850	0.000	98	110772	20.0	18.8	
$ 11 2,4,6-Tribromophenol	330	10.527	10.527	0.000	77	17217	20.0	18.0	
$ 12 p-Terphenyl-d14	244	12.718	12.718	0.000	96	116575	20.0	19.4	
68 1,4-Dioxane	88	2.626	2.610	0.016	80	15755	20.0	20.9	
69 N-Nitrosodimethylamine	42	2.941	2.931	0.010	66	22428	20.0	18.9	
70 Pyridine	52	2.995	2.984	0.011	80	30092	20.0	20.0	
81 Phenol	94	5.693	5.693	0.000	75	64225	20.0	19.6	
82 Aniline	93	5.698	5.693	0.005	69	74815	20.0	19.9	
83 Bis(2-chloroethyl)ether	93	5.773	5.773	0.000	92	46784	20.0	20.1	
84 2-Chlorophenol	128	5.842	5.842	0.000	89	43760	20.0	19.8	
87 1,3-Dichlorobenzene	146	6.013	6.013	0.000	93	49853	20.0	20.2	
88 1,4-Dichlorobenzene	146	6.104	6.099	0.005	79	49676	20.0	19.4	
90 Benzyl alcohol	108	6.248	6.248	0.000	82	32050	20.0	19.8	
91 1,2-Dichlorobenzene	146	6.280	6.275	0.005	90	48823	20.0	20.5	
92 2-Methylphenol	108	6.398	6.398	0.000	91	42447	20.0	19.2	
93 2,2'-oxybis[1-chloropropan	45	6.408	6.408	0.000	87	68415	20.0	20.1	
94 Acetophenone	105	6.558	6.558	0.000	90	67083	20.0	19.3	
95 N-Nitrosodi-n-propylamine	70	6.558	6.563	-0.005	89	37382	20.0	19.8	
96 4-Methylphenol	108	6.585	6.585	0.000	92	43257	20.0	19.6	
99 Hexachloroethane	117	6.670	6.670	0.000	88	21266	20.0	21.0	
102 Nitrobenzene	77	6.750	6.756	-0.006	85	58545	20.0	19.6	
106 Isophorone	82	7.039	7.039	0.000	95	100801	20.0	20.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
107 2-Nitrophenol	139	7.130	7.130	0.000	89	22451	20.0	19.2	
108 2,4-Dimethylphenol	107	7.204	7.204	0.000	97	53057	20.0	20.3	
111 Bis(2-chloroethoxy)methane	93	7.301	7.301	0.000	95	52435	20.0	19.9	
114 2,4-Dichlorophenol	162	7.429	7.429	0.000	91	41599	20.0	19.8	
117 1,2,4-Trichlorobenzene	180	7.509	7.509	0.000	90	53044	20.0	20.4	
118 Naphthalene	128	7.600	7.600	0.000	91	123272	20.0	19.4	
119 4-Chloroaniline	127	7.675	7.675	0.000	83	53704	20.0	20.0	
121 Hexachlorobutadiene	225	7.749	7.749	0.000	88	32035	20.0	19.1	
129 4-Chloro-3-methylphenol	107	8.268	8.268	0.000	85	43519	20.0	19.0	
131 2-Methylnaphthalene	142	8.412	8.412	0.000	88	89093	20.0	19.6	
134 Hexachlorocyclopentadiene	237	8.599	8.599	0.000	80	21376	20.0	17.1	
135 1,2,4,5-Tetrachlorobenzene	216	8.609	8.609	0.000	95	51587	20.0	18.0	
137 2,4,6-Trichlorophenol	196	8.759	8.759	0.000	81	34016	20.0	19.1	
138 2,4,5-Trichlorophenol	196	8.818	8.812	0.006	87	35037	20.0	19.0	
140 1,1'-Biphenyl	154	8.967	8.967	0.000	93	111110	20.0	19.3	
141 2-Chloronaphthalene	162	8.983	8.983	0.000	91	89925	20.0	19.3	
143 2-Nitroaniline	65	9.117	9.117	0.000	58	32534	20.0	19.9	
146 Dimethyl phthalate	163	9.341	9.347	-0.006	96	110504	20.0	19.7	
148 1,3-Dinitrobenzene	168	9.373	9.379	-0.006	78	19125	20.0	19.8	
149 2,6-Dinitrotoluene	165	9.411	9.411	0.000	82	23108	20.0	17.5	
150 Acenaphthylene	152	9.470	9.470	0.000	89	136019	20.0	19.2	
151 3-Nitroaniline	138	9.608	9.608	0.000	88	23960	20.0	19.0	
152 Acenaphthene	153	9.678	9.678	0.000	95	87014	20.0	19.1	
153 2,4-Dinitrophenol	184	9.737	9.742	-0.005	74	32480	40.0	34.5	
154 4-Nitrophenol	109	9.865	9.865	0.000	89	35255	40.0	33.9	
155 Dibenzofuran	168	9.876	9.881	-0.005	84	124382	20.0	18.1	
156 2,4-Dinitrotoluene	165	9.881	9.886	-0.005	67	33036	20.0	17.6	
158 2,3,4,6-Tetrachlorophenol	232	10.036	10.036	0.000	67	28377	20.0	17.7	
161 Diethyl phthalate	149	10.159	10.159	0.000	95	101108	20.0	18.2	
162 Fluorene	166	10.260	10.266	-0.006	80	91592	20.0	17.5	
163 4-Chlorophenyl phenyl ethe	204	10.271	10.271	0.000	91	55197	20.0	18.5	
164 4-Nitroaniline	138	10.303	10.308	-0.005	70	20746	20.0	18.7	
165 4,6-Dinitro-2-methylphenol	198	10.335	10.340	-0.005	82	45724	40.0	36.5	
170 1,2-Diphenylhydrazine	77	10.442	10.442	0.000	98	119205	20.0	18.9	
171 Azobenzene	77	10.442	10.442	0.000	99	119205	20.0	18.7	
175 4-Bromophenyl phenyl ether	248	10.789	10.789	0.000	62	34682	20.0	18.9	
179 Hexachlorobenzene	284	10.848	10.848	0.000	88	35816	20.0	18.0	
183 Pentachlorophenol	266	11.062	11.062	0.000	84	38758	40.0	34.5	
188 Phenanthrene	178	11.259	11.259	0.000	96	131210	20.0	18.5	
189 Anthracene	178	11.313	11.313	0.000	96	133214	20.0	18.7	
192 Carbazole	167	11.473	11.478	-0.005	83	121157	20.0	18.7	
195 Di-n-butyl phthalate	149	11.809	11.809	0.000	100	158032	20.0	19.5	
201 Fluoranthene	202	12.376	12.381	-0.005	96	172392	20.0	18.2	
204 Pyrene	202	12.579	12.584	-0.005	97	169354	20.0	19.4	
210 Butyl benzyl phthalate	149	13.140	13.140	0.000	95	62356	20.0	19.6	
217 Benzo[a]anthracene	228	13.626	13.631	-0.005	97	151585	20.0	18.9	
216 Bis(2-ethylhexyl) phthalat	149	13.626	13.631	-0.005	95	89852	20.0	18.7	
218 Chrysene	228	13.658	13.663	-0.005	90	132629	20.0	19.7	
220 Di-n-octyl phthalate	149	14.165	14.165	0.000	99	135830	20.0	19.1	
221 Benzo[b]fluoranthene	252	14.545	14.545	0.000	89	144744	20.0	19.1	
222 Benzo[k]fluoranthene	252	14.566	14.571	-0.005	96	138136	20.0	19.1	
225 Benzo[a]pyrene	252	14.844	14.849	-0.005	64	127567	20.0	18.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
227 Indeno[1,2,3-cd]pyrene	276	15.987	16.003	-0.016	94	139843	20.0	18.7	
228 Dibenz(a,h)anthracene	278	15.992	16.003	-0.011	50	114753	20.0	18.1	
229 Benzo[g,h,i]perylene	276	16.308	16.318	-0.010	85	109204	20.0	18.7	
263 n-Decane	57		0.000						
256 Hexadecane	57		0.000						
251 1-Methylnaphthalene	142		0.000						
265 n-Octadecane	57		0.000						
S 234 3 & 4 Methylphenol	108				0			19.6	
S 233 3-Methylphenol	1				0		20.0	19.6	
S 232 Total Cresols	1				0			38.7	

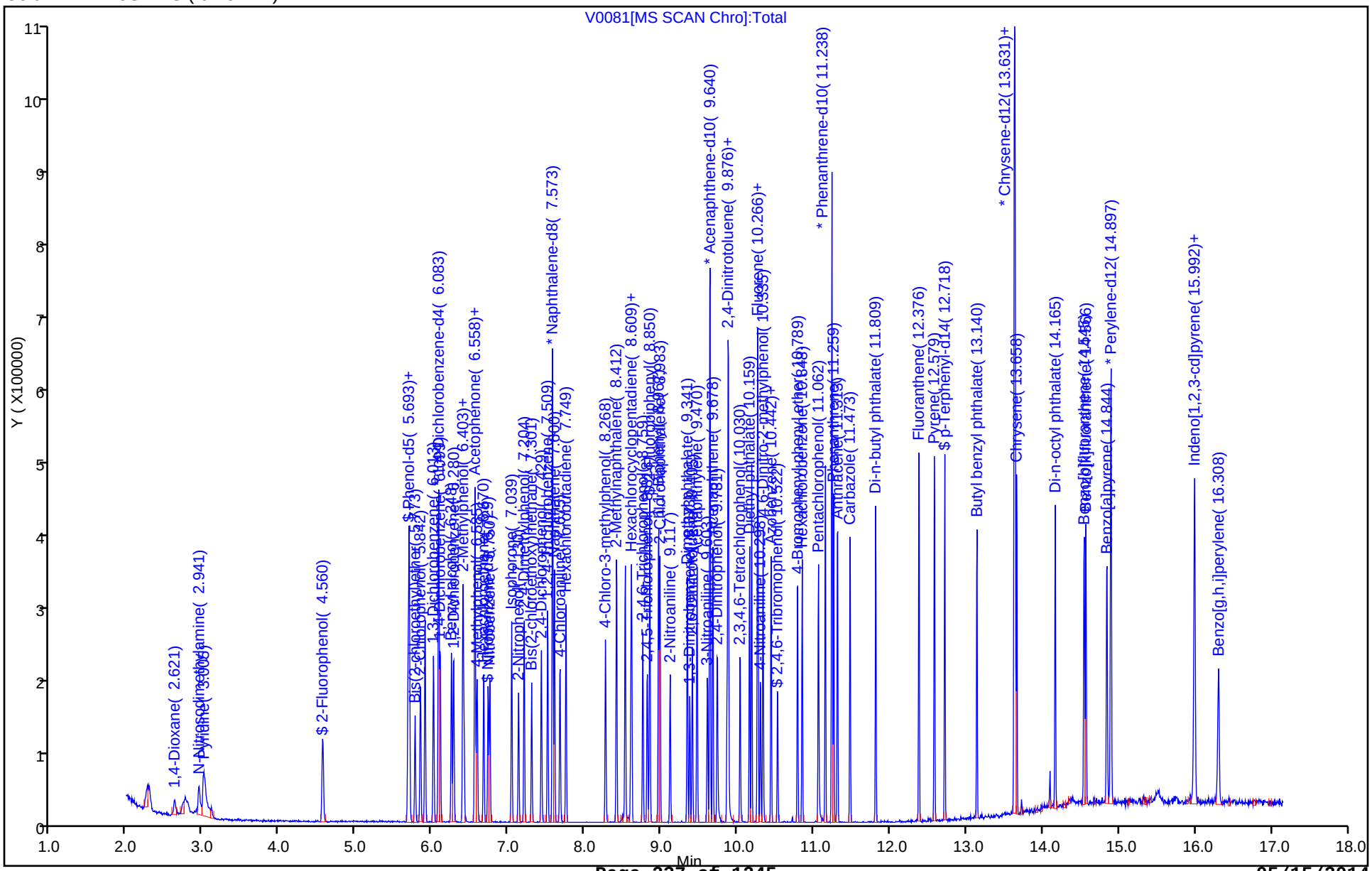
Report Date: 05-May-2014 15:03:48 Chrom Revision: 2.2 14-Apr-2014 13:40:08

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973V\20140505-31759.b\V0081.D

Injection Date:	05-May-2014 09:23:30	Instrument ID:	HP5973V	Operator ID:	hl
Lims ID:	IC 8270 - 20			Worklist Smp#:	4
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	V-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973V\20140505-31759.b\V0082.D
Lims ID: ICIS 8270 - 50
Client ID:
Sample Type: ICIS Calib Level: 3
Inject. Date: 05-May-2014 09:47:30 ALS Bottle#: 5 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 480-0031759-005
Operator ID: hl Instrument ID: HP5973V
Sublist: chrom-V-8270*sub41

Method: \\Bufchrom\ChromData\HP5973V\20140505-31759.b\V-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 05-May-2014 15:03:52 Calib Date: 05-May-2014 14:41:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5973V\20140505-31759.b\V0093.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK009

First Level Reviewer: lyh Date: 05-May-2014 15:03:52

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	6.083	6.083	0.000	93	65340	40.0	40.0	
* 2 Naphthalene-d8	136	7.573	7.573	0.000	98	218285	40.0	40.0	
* 3 Acenaphthene-d10	164	9.641	9.641	0.000	91	141940	40.0	40.0	
* 4 Phenanthrene-d10	188	11.238	11.238	0.000	95	240557	40.0	40.0	
* 5 Chrysene-d12	240	13.642	13.642	0.000	96	251313	40.0	40.0	
* 6 Perylene-d12	264	14.897	14.897	0.000	98	227248	40.0	40.0	
$ 7 2-Fluorophenol	112	4.555	4.555	0.000	90	99773	50.0	49.2	
$ 8 Phenol-d5	99	5.677	5.677	0.000	0	137921	50.0	49.3	
$ 9 Nitrobenzene-d5	82	6.729	6.729	0.000	88	135250	50.0	48.8	
$ 10 2-Fluorobiphenyl	172	8.850	8.850	0.000	99	259538	50.0	49.5	
$ 11 2,4,6-Tribromophenol	330	10.527	10.527	0.000	90	41132	50.0	46.7	
$ 12 p-Terphenyl-d14	244	12.718	12.718	0.000	98	291184	50.0	50.0	
68 1,4-Dioxane	88	2.610	2.610	0.000	95	36086	50.0	50.3	
69 N-Nitrosodimethylamine	42	2.931	2.931	0.000	79	56639	50.0	50.3	
70 Pyridine	52	2.984	2.984	0.000	80	77320	50.0	54.0	M
81 Phenol	94	5.693	5.693	0.000	78	151101	50.0	48.6	
82 Aniline	93	5.693	5.693	0.000	67	172737	50.0	48.3	
83 Bis(2-chloroethyl)ether	93	5.773	5.773	0.000	92	105468	50.0	47.6	
84 2-Chlorophenol	128	5.842	5.842	0.000	93	100649	50.0	47.9	
87 1,3-Dichlorobenzene	146	6.013	6.013	0.000	94	112674	50.0	47.9	
88 1,4-Dichlorobenzene	146	6.099	6.099	0.000	80	117100	50.0	48.1	
90 Benzyl alcohol	108	6.248	6.248	0.000	88	76179	50.0	49.4	
91 1,2-Dichlorobenzene	146	6.275	6.275	0.000	91	109797	50.0	48.5	
92 2-Methylphenol	108	6.398	6.398	0.000	93	101597	50.0	48.2	
93 2,2'-oxybis[1-chloropropan	45	6.408	6.408	0.000	90	159166	50.0	49.1	
94 Acetophenone	105	6.558	6.558	0.000	91	160181	50.0	48.5	
95 N-Nitrosodi-n-propylamine	70	6.563	6.563	0.000	91	86051	50.0	47.9	
96 4-Methylphenol	108	6.585	6.585	0.000	91	98211	50.0	46.7	
99 Hexachloroethane	117	6.670	6.670	0.000	89	45599	50.0	47.2	
102 Nitrobenzene	77	6.756	6.756	0.000	85	136724	50.0	49.8	
106 Isophorone	82	7.039	7.039	0.000	99	226535	50.0	49.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
107 2-Nitrophenol	139	7.130	7.130	0.000	90	52405	50.0	48.8	
108 2,4-Dimethylphenol	107	7.204	7.204	0.000	98	117905	50.0	49.0	
111 Bis(2-chloroethoxy)methane	93	7.301	7.301	0.000	97	122297	50.0	50.5	
114 2,4-Dichlorophenol	162	7.429	7.429	0.000	94	97291	50.0	50.4	
117 1,2,4-Trichlorobenzene	180	7.509	7.509	0.000	92	114590	50.0	47.9	
118 Naphthalene	128	7.600	7.600	0.000	97	288633	50.0	49.3	
119 4-Chloroaniline	127	7.675	7.675	0.000	81	124198	50.0	50.3	
121 Hexachlorobutadiene	225	7.749	7.749	0.000	94	75835	50.0	49.3	
129 4-Chloro-3-methylphenol	107	8.268	8.268	0.000	88	105630	50.0	50.1	
131 2-Methylnaphthalene	142	8.412	8.412	0.000	85	203863	50.0	48.8	
134 Hexachlorocyclopentadiene	237	8.599	8.599	0.000	95	58580	50.0	44.3	
135 1,2,4,5-Tetrachlorobenzene	216	8.609	8.609	0.000	97	126628	50.0	49.5	
137 2,4,6-Trichlorophenol	196	8.759	8.759	0.000	91	79805	50.0	50.3	
138 2,4,5-Trichlorophenol	196	8.812	8.812	0.000	92	84773	50.0	51.5	
140 1,1'-Biphenyl	154	8.967	8.967	0.000	96	254131	50.0	49.4	
141 2-Chloronaphthalene	162	8.983	8.983	0.000	97	206426	50.0	49.7	
143 2-Nitroaniline	65	9.117	9.117	0.000	72	74543	50.0	51.2	
146 Dimethyl phthalate	163	9.347	9.347	0.000	97	254768	50.0	50.9	
148 1,3-Dinitrobenzene	168	9.379	9.379	0.000	83	43460	50.0	48.9	
149 2,6-Dinitrotoluene	165	9.411	9.411	0.000	89	60355	50.0	51.2	
150 Acenaphthylene	152	9.470	9.470	0.000	91	316449	50.0	50.0	
151 3-Nitroaniline	138	9.608	9.608	0.000	86	55827	50.0	49.5	
152 Acenaphthene	153	9.678	9.678	0.000	95	205759	50.0	50.7	
153 2,4-Dinitrophenol	184	9.742	9.742	0.000	82	87011	100.0	103.5	
154 4-Nitrophenol	109	9.865	9.865	0.000	92	94182	100.0	91.4	
155 Dibenzofuran	168	9.881	9.881	0.000	84	303017	50.0	49.4	
156 2,4-Dinitrotoluene	165	9.886	9.886	0.000	75	84459	50.0	50.4	
158 2,3,4,6-Tetrachlorophenol	232	10.036	10.036	0.000	69	72318	50.0	50.6	
161 Diethyl phthalate	149	10.159	10.159	0.000	96	255400	50.0	51.6	
162 Fluorene	166	10.266	10.266	0.000	80	231562	50.0	49.5	
163 4-Chlorophenyl phenyl ethe	204	10.271	10.271	0.000	93	131571	50.0	49.5	
164 4-Nitroaniline	138	10.308	10.308	0.000	72	49334	50.0	49.7	
165 4,6-Dinitro-2-methylphenol	198	10.340	10.340	0.000	82	112238	100.0	97.3	
171 Azobenzene	77	10.442	10.442	0.000	99	282435	50.0	48.0	
170 1,2-Diphenylhydrazine	77	10.442	10.442	0.000	98	282435	50.0	50.2	
175 4-Bromophenyl phenyl ether	248	10.789	10.789	0.000	63	81681	50.0	48.4	
179 Hexachlorobenzene	284	10.848	10.848	0.000	93	87049	50.0	47.5	
183 Pentachlorophenol	266	11.062	11.062	0.000	89	103006	100.0	86.1	
188 Phenanthrene	178	11.259	11.259	0.000	97	311202	50.0	47.7	
189 Anthracene	178	11.313	11.313	0.000	97	313148	50.0	47.8	
192 Carbazole	167	11.478	11.478	0.000	83	291774	50.0	48.9	
195 Di-n-butyl phthalate	149	11.809	11.809	0.000	100	367164	50.0	49.2	
201 Fluoranthene	202	12.381	12.381	0.000	97	427093	50.0	48.9	
204 Pyrene	202	12.584	12.584	0.000	98	421563	50.0	49.9	
210 Butyl benzyl phthalate	149	13.140	13.140	0.000	98	152779	50.0	49.6	
217 Benzo[a]anthracene	228	13.631	13.631	0.000	97	381680	50.0	49.2	
216 Bis(2-ethylhexyl) phthalat	149	13.631	13.631	0.000	83	225530	50.0	48.6	
218 Chrysene	228	13.663	13.663	0.000	92	315177	50.0	48.6	
220 Di-n-octyl phthalate	149	14.165	14.165	0.000	99	340442	50.0	49.7	
221 Benzo[b]fluoranthene	252	14.545	14.545	0.000	90	366128	50.0	49.5	
222 Benzo[k]fluoranthene	252	14.571	14.571	0.000	96	334229	50.0	47.2	
225 Benzo[a]pyrene	252	14.849	14.849	0.000	70	326281	50.0	48.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
227 Indeno[1,2,3-cd]pyrene	276	16.003	16.003	0.000	93	349056	50.0	47.7	
228 Dibenz(a,h)anthracene	278	16.003	16.003	0.000	60	297696	50.0	48.0	
229 Benzo[g,h,i]perylene	276	16.318	16.318	0.000	89	274352	50.0	48.0	
251 1-Methylnaphthalene	142		0.000						
265 n-Octadecane	57		0.000						
263 n-Decane	57		0.000						
256 Hexadecane	57		0.000						
S 233 3-Methylphenol	1				0		50.0	46.7	
S 234 3 & 4 Methylphenol	108				0			46.7	
S 232 Total Cresols	1				0			94.9	

QC Flag Legend

Review Flags
M - Manually Integrated

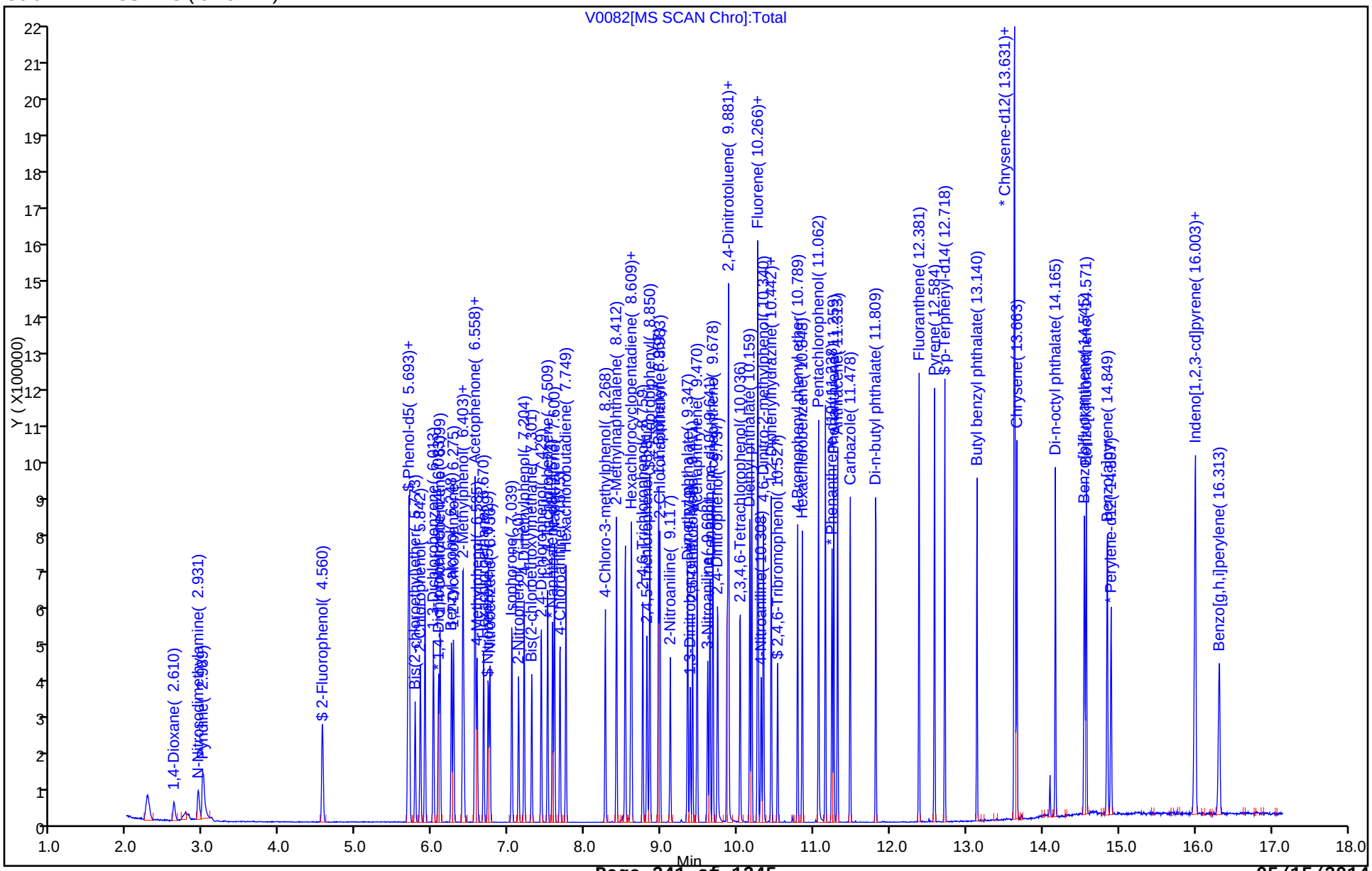
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TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973V\20140505-31759.b\V0082.D

Injection Date:	05-May-2014 09:47:30	Instrument ID:	HP5973V	Operator ID:	hl
Lims ID:	ICIS 8270 - 50			Worklist Smp#:	5
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	V-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



Manual Integration/User Assign Peak Report

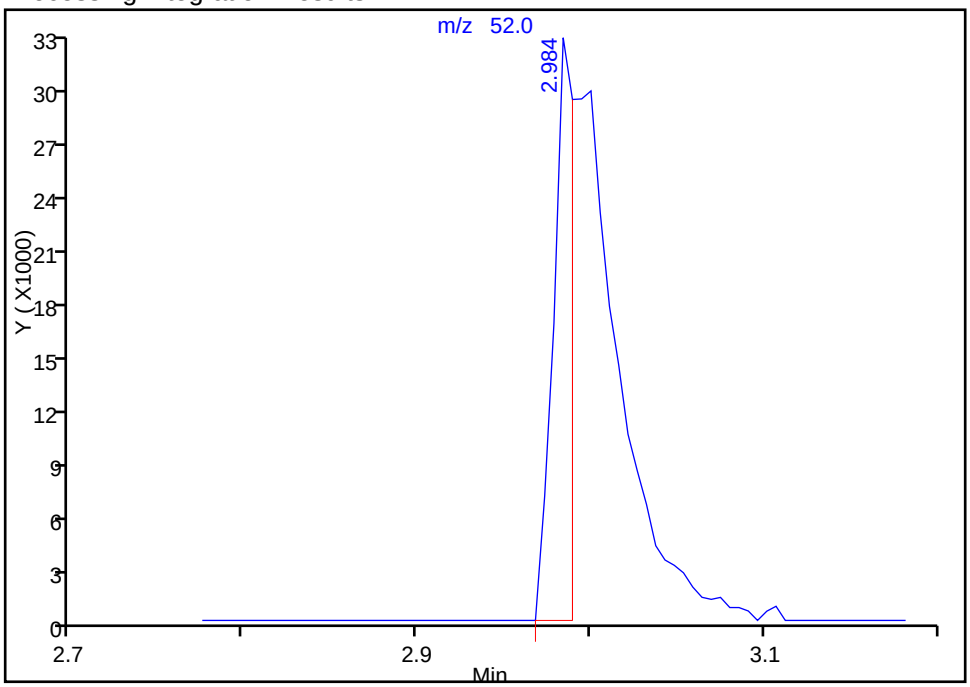
TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973V\20140505-31759.b\V0082.D
Injection Date: 05-May-2014 09:47:30 Instrument ID: HP5973V
Lims ID: ICIS 8270 - 50
Client ID:
Operator ID: hl ALS Bottle#: 5 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: V-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

70 Pyridine, CAS: 110-86-1

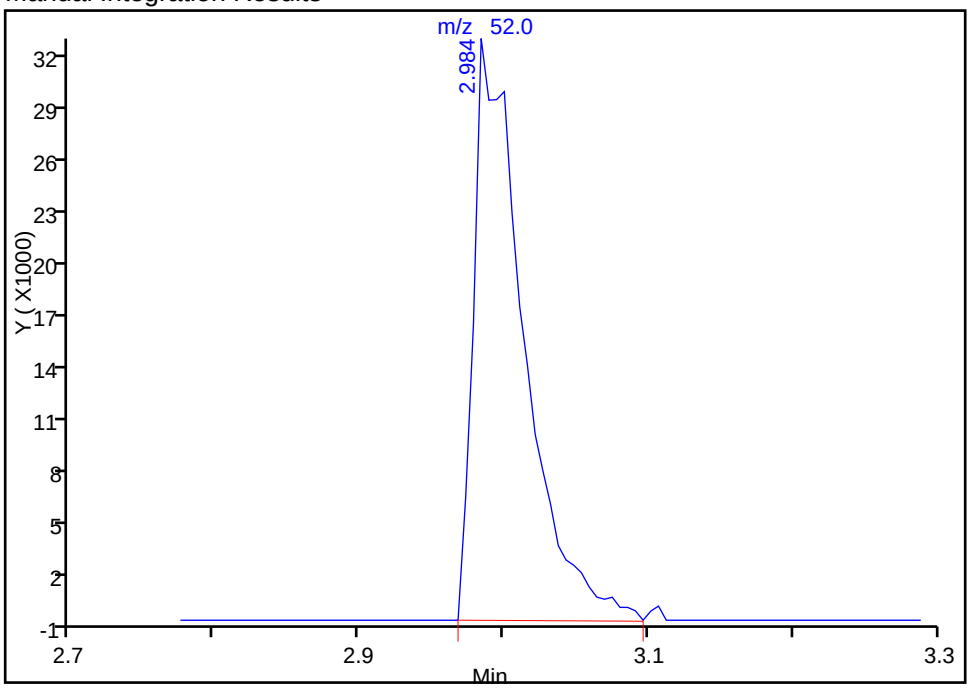
Processing Integration Results

RT: 2.98
Response: 26857
Amount: 26.726730



Manual Integration Results

RT: 2.98
Response: 77320
Amount: 53.969212



Reviewer: lyh, 05-May-2014 10:26:11
Audit Action: Manually Integrated
Audit Reason: Assign Peak

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973V\20140505-31759.b\V0083.D
Lims ID: IC 8270 - 80
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 05-May-2014 10:12:30 ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 480-0031759-006
Operator ID: hl Instrument ID: HP5973V
Sublist: chrom-V-8270*sub41

Method: \\Bufchrom\ChromData\HP5973V\20140505-31759.b\V-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 05-May-2014 15:03:56 Calib Date: 05-May-2014 14:41:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5973V\20140505-31759.b\V0093.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK009

First Level Reviewer: lyh Date: 05-May-2014 15:03:56

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	6.083	6.083	0.000	94	64006	40.0	40.0	
* 2 Naphthalene-d8	136	7.578	7.573	0.005	99	219687	40.0	40.0	
* 3 Acenaphthene-d10	164	9.641	9.641	0.000	87	142564	40.0	40.0	
* 4 Phenanthrene-d10	188	11.238	11.238	0.000	95	236084	40.0	40.0	
* 5 Chrysene-d12	240	13.642	13.642	0.000	96	264054	40.0	40.0	
* 6 Perylene-d12	264	14.897	14.897	0.000	98	233631	40.0	40.0	
$ 7 2-Fluorophenol	112	4.555	4.555	0.000	91	164614	80.0	82.8	
$ 8 Phenol-d5	99	5.682	5.677	0.005	0	223786	80.0	81.6	
$ 9 Nitrobenzene-d5	82	6.734	6.729	0.005	90	223979	80.0	80.2	
$ 10 2-Fluorobiphenyl	172	8.855	8.850	0.005	100	438932	80.0	83.4	
$ 11 2,4,6-Tribromophenol	330	10.527	10.527	0.000	92	69203	80.0	80.0	
$ 12 p-Terphenyl-d14	244	12.718	12.718	0.000	99	489377	80.0	80.1	
68 1,4-Dioxane	88	2.615	2.610	0.005	96	59964	80.0	85.4	
69 N-Nitrosodimethylamine	42	2.931	2.931	0.000	79	90907	80.0	82.4	
70 Pyridine	52	2.995	2.984	0.011	91	108709	80.0	77.5	
81 Phenol	94	5.698	5.693	0.005	75	250341	80.0	82.2	
82 Aniline	93	5.698	5.693	0.005	67	286211	80.0	81.8	
83 Bis(2-chloroethyl)ether	93	5.778	5.773	0.005	96	178933	80.0	82.5	
84 2-Chlorophenol	128	5.842	5.842	0.000	94	167362	80.0	81.3	
87 1,3-Dichlorobenzene	146	6.013	6.013	0.000	94	186473	80.0	81.0	
88 1,4-Dichlorobenzene	146	6.104	6.099	0.005	90	193020	80.0	80.9	
90 Benzyl alcohol	108	6.254	6.248	0.006	87	122736	80.0	81.3	
91 1,2-Dichlorobenzene	146	6.280	6.275	0.005	86	178555	80.0	80.4	
92 2-Methylphenol	108	6.403	6.398	0.005	91	165879	80.0	80.4	
93 2,2'-oxybis[1-chloropropan	45	6.414	6.408	0.006	89	255069	80.0	80.3	
94 Acetophenone	105	6.558	6.558	0.000	90	263569	80.0	81.4	
95 N-Nitrosodi-n-propylamine	70	6.569	6.563	0.006	92	140081	80.0	79.6	
96 4-Methylphenol	108	6.590	6.585	0.005	89	166103	80.0	80.6	
99 Hexachloroethane	117	6.670	6.670	0.000	90	74077	80.0	78.3	
102 Nitrobenzene	77	6.756	6.756	0.000	88	223538	80.0	80.9	
106 Isophorone	82	7.044	7.039	0.005	96	368719	80.0	80.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
107 2-Nitrophenol	139	7.130	7.130	0.000	90	87683	80.0	81.1	
108 2,4-Dimethylphenol	107	7.204	7.204	0.000	98	193062	80.0	79.8	
111 Bis(2-chloroethoxy)methane	93	7.306	7.301	0.005	99	201445	80.0	82.6	
114 2,4-Dichlorophenol	162	7.429	7.429	0.000	96	160638	80.0	82.6	
117 1,2,4-Trichlorobenzene	180	7.514	7.509	0.005	92	195284	80.0	81.2	
118 Naphthalene	128	7.600	7.600	0.000	98	473774	80.0	80.5	
119 4-Chloroaniline	127	7.675	7.675	0.000	81	204105	80.0	82.1	
121 Hexachlorobutadiene	225	7.749	7.749	0.000	95	126136	80.0	81.4	
129 4-Chloro-3-methylphenol	107	8.268	8.268	0.000	89	174211	80.0	82.1	
131 2-Methylnaphthalene	142	8.417	8.412	0.005	87	338293	80.0	80.4	
134 Hexachlorocyclopentadiene	237	8.604	8.599	0.005	93	107429	80.0	77.6	
135 1,2,4,5-Tetrachlorobenzene	216	8.615	8.609	0.006	97	213854	80.0	83.2	
137 2,4,6-Trichlorophenol	196	8.759	8.759	0.000	92	133504	80.0	83.8	
138 2,4,5-Trichlorophenol	196	8.812	8.812	0.000	92	134790	80.0	81.5	
140 1,1'-Biphenyl	154	8.967	8.967	0.000	96	420681	80.0	81.5	
141 2-Chloronaphthalene	162	8.989	8.983	0.006	96	340542	80.0	81.7	
143 2-Nitroaniline	65	9.122	9.117	0.005	74	122294	80.0	83.6	
146 Dimethyl phthalate	163	9.352	9.347	0.005	97	418388	80.0	83.3	
148 1,3-Dinitrobenzene	168	9.384	9.379	0.005	83	75278	80.0	84.2	
149 2,6-Dinitrotoluene	165	9.416	9.411	0.005	90	96712	80.0	81.6	
150 Acenaphthylene	152	9.475	9.470	0.005	92	516552	80.0	81.3	
151 3-Nitroaniline	138	9.614	9.608	0.006	86	93547	80.0	82.6	
152 Acenaphthene	153	9.678	9.678	0.000	95	333247	80.0	81.8	
153 2,4-Dinitrophenol	184	9.747	9.742	0.005	84	147200	160.0	174.3	
154 4-Nitrophenol	109	9.865	9.865	0.000	91	170294	160.0	160.5	
155 Dibenzofuran	168	9.881	9.881	0.000	86	514870	80.0	83.5	
156 2,4-Dinitrotoluene	165	9.892	9.886	0.006	65	145189	80.0	86.2	
158 2,3,4,6-Tetrachlorophenol	232	10.036	10.036	0.000	70	125473	80.0	87.3	
161 Diethyl phthalate	149	10.164	10.159	0.005	95	415261	80.0	83.5	
162 Fluorene	166	10.266	10.266	0.000	80	388001	80.0	82.6	
163 4-Chlorophenyl phenyl ethe	204	10.271	10.271	0.000	94	218161	80.0	81.6	
164 4-Nitroaniline	138	10.319	10.308	0.011	70	83514	80.0	83.8	
165 4,6-Dinitro-2-methylphenol	198	10.346	10.340	0.006	80	184682	160.0	163.1	
170 1,2-Diphenylhydrazine	77	10.442	10.442	0.000	98	470806	80.0	83.4	
171 Azobenzene	77	10.442	10.442	0.000	99	470806	80.0	81.5	
175 4-Bromophenyl phenyl ether	248	10.789	10.789	0.000	64	134877	80.0	81.4	
179 Hexachlorobenzene	284	10.853	10.848	0.005	94	147530	80.0	82.0	
183 Pentachlorophenol	266	11.067	11.062	0.005	90	184521	160.0	151.3	
188 Phenanthrene	178	11.265	11.259	0.006	97	533290	80.0	83.2	
189 Anthracene	178	11.313	11.313	0.000	98	523923	80.0	81.5	
192 Carbazole	167	11.478	11.478	0.000	83	488691	80.0	83.4	
195 Di-n-butyl phthalate	149	11.815	11.809	0.006	100	593264	80.0	81.1	
201 Fluoranthene	202	12.381	12.381	0.000	96	732999	80.0	85.5	
204 Pyrene	202	12.584	12.584	0.000	98	710445	80.0	80.1	
210 Butyl benzyl phthalate	149	13.140	13.140	0.000	97	257706	80.0	79.7	
217 Benzo[a]anthracene	228	13.631	13.631	0.000	97	650404	80.0	79.9	
216 Bis(2-ethylhexyl) phthalat	149	13.631	13.631	0.000	83	394230	80.0	80.9	
218 Chrysene	228	13.663	13.663	0.000	92	546796	80.0	80.2	
220 Di-n-octyl phthalate	149	14.165	14.165	0.000	100	589575	80.0	81.8	
221 Benzo[b]fluoranthene	252	14.550	14.545	0.005	90	608956	80.0	80.1	
222 Benzo[k]fluoranthene	252	14.577	14.571	0.006	97	597900	80.0	82.2	
225 Benzo[a]pyrene	252	14.849	14.849	0.000	71	563115	80.0	82.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
227 Indeno[1,2,3-cd]pyrene	276	16.008	16.003	0.005	91	620306	80.0	82.4	
228 Dibenz(a,h)anthracene	278	16.008	16.003	0.005	60	524217	80.0	82.2	
229 Benzo[g,h,i]perylene	276	16.324	16.318	0.006	89	481252	80.0	81.9	
263 n-Decane	57		0.000						
265 n-Octadecane	57		0.000						
256 Hexadecane	57		0.000						
251 1-Methylnaphthalene	142		0.000						
S 234 3 & 4 Methylphenol	108				0			80.6	
S 233 3-Methylphenol	1				0		80.0	80.6	
S 232 Total Cresols	1				0			161.0	

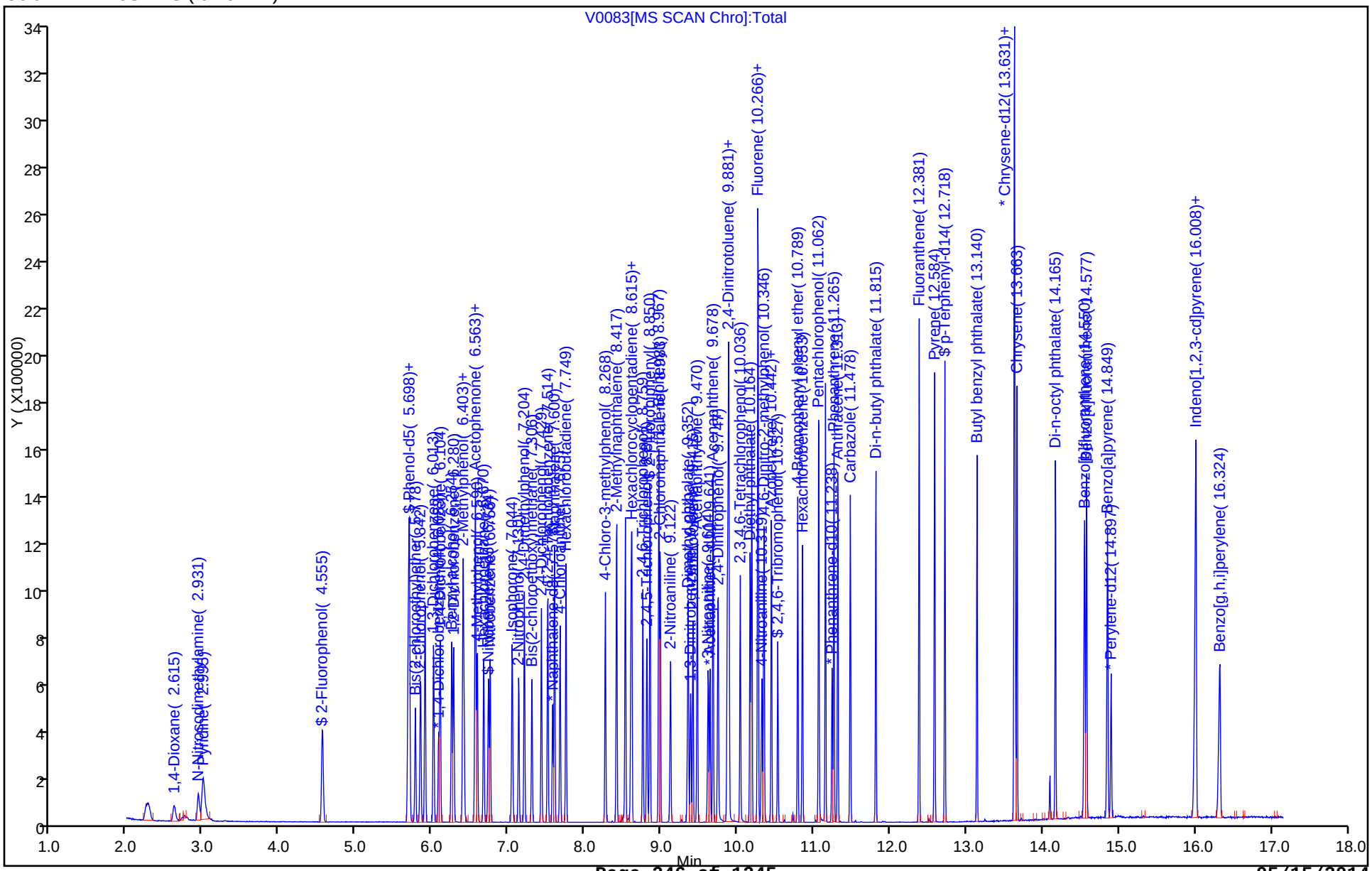
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TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973V\20140505-31759.b\V0083.D

Injection Date:	05-May-2014 10:12:30	Instrument ID:	HP5973V	Operator ID:	hl
Lims ID:	IC 8270 - 80			Worklist Smp#:	6
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	V-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973V\20140505-31759.b\V0084.D
Lims ID: IC 8270 - 120
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 05-May-2014 10:36:30 ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 480-0031759-007
Operator ID: hl Instrument ID: HP5973V
Sublist: chrom-V-8270*sub41

Method: \\Bufchrom\ChromData\HP5973V\20140505-31759.b\V-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 05-May-2014 15:03:59 Calib Date: 05-May-2014 14:41:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5973V\20140505-31759.b\V0093.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK009

First Level Reviewer: lyh Date: 05-May-2014 15:03:59

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	6.083	6.083	0.000	96	75646	40.0	40.0	
* 2 Naphthalene-d8	136	7.578	7.573	0.005	99	254525	40.0	40.0	
* 3 Acenaphthene-d10	164	9.641	9.641	0.000	79	172283	40.0	40.0	
* 4 Phenanthrene-d10	188	11.243	11.238	0.005	96	269753	40.0	40.0	
* 5 Chrysene-d12	240	13.647	13.642	0.005	96	318834	40.0	40.0	
* 6 Perylene-d12	264	14.903	14.897	0.006	98	279216	40.0	40.0	
$ 7 2-Fluorophenol	112	4.555	4.555	0.000	93	292575	120.0	124.6	
$ 8 Phenol-d5	99	5.682	5.677	0.005	0	403910	120.0	124.6	
$ 9 Nitrobenzene-d5	82	6.740	6.729	0.011	90	389814	120.0	120.5	
$ 10 2-Fluorobiphenyl	172	8.855	8.850	0.005	99	778836	120.0	122.4	
$ 11 2,4,6-Tribromophenol	330	10.533	10.527	0.006	93	128987	120.0	130.5	
$ 12 p-Terphenyl-d14	244	12.723	12.718	0.005	98	881762	120.0	119.5	
68 1,4-Dioxane	88	2.605	2.610	-0.005	95	104784	120.0	126.2	
69 N-Nitrosodimethylamine	42	2.925	2.931	-0.006	75	167840	120.0	128.7	
70 Pyridine	52	2.979	2.984	-0.005	90	219099	120.0	132.1	
81 Phenol	94	5.703	5.693	0.010	79	443830	120.0	123.2	
82 Aniline	93	5.698	5.693	0.005	64	510314	120.0	123.4	
83 Bis(2-chloroethyl)ether	93	5.783	5.773	0.010	96	314472	120.0	122.6	
84 2-Chlorophenol	128	5.848	5.842	0.006	94	298863	120.0	122.9	
87 1,3-Dichlorobenzene	146	6.019	6.013	0.006	95	334289	120.0	122.8	
88 1,4-Dichlorobenzene	146	6.104	6.099	0.005	91	343378	120.0	121.8	
90 Benzyl alcohol	108	6.259	6.248	0.011	88	216923	120.0	121.6	
91 1,2-Dichlorobenzene	146	6.280	6.275	0.005	90	314475	120.0	119.9	
92 2-Methylphenol	108	6.403	6.398	0.005	92	293563	120.0	120.4	
93 2,2'-oxybis[1-chloropropan	45	6.414	6.408	0.006	89	448103	120.0	119.3	
94 Acetophenone	105	6.563	6.558	0.005	92	466050	120.0	121.8	
95 N-Nitrosodi-n-propylamine	70	6.574	6.563	0.011	91	249718	120.0	120.1	
96 4-Methylphenol	108	6.596	6.585	0.011	89	294683	120.0	120.9	
99 Hexachloroethane	117	6.670	6.670	0.000	90	133156	120.0	119.1	
102 Nitrobenzene	77	6.761	6.756	0.005	90	389764	120.0	121.8	
106 Isophorone	82	7.055	7.039	0.016	97	629227	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
107 2-Nitrophenol	139	7.135	7.130	0.005	91	153265	120.0	122.4	
108 2,4-Dimethylphenol	107	7.210	7.204	0.006	98	338132	120.0	120.6	
111 Bis(2-chloroethoxy)methane	93	7.311	7.301	0.010	99	349652	120.0	123.8	
114 2,4-Dichlorophenol	162	7.434	7.429	0.005	95	281181	120.0	124.8	
117 1,2,4-Trichlorobenzene	180	7.514	7.509	0.005	93	338984	120.0	121.6	
118 Naphthalene	128	7.605	7.600	0.005	99	846104	120.0	124.1	
119 4-Chloroaniline	127	7.680	7.675	0.005	81	355966	120.0	123.6	
121 Hexachlorobutadiene	225	7.755	7.749	0.006	94	228474	120.0	127.3	
129 4-Chloro-3-methylphenol	107	8.268	8.268	0.000	88	312114	120.0	127.0	
131 2-Methylnaphthalene	142	8.417	8.412	0.005	87	594931	120.0	122.1	
134 Hexachlorocyclopentadiene	237	8.604	8.599	0.005	96	207588	120.0	121.6	
135 1,2,4,5-Tetrachlorobenzene	216	8.615	8.609	0.006	98	385185	120.0	124.0	
137 2,4,6-Trichlorophenol	196	8.764	8.759	0.005	92	234919	120.0	122.0	
138 2,4,5-Trichlorophenol	196	8.813	8.812	0.001	93	247270	120.0	123.7	
140 1,1'-Biphenyl	154	8.973	8.967	0.006	96	759270	120.0	121.7	
141 2-Chloronaphthalene	162	8.989	8.983	0.006	97	614073	120.0	121.9	
143 2-Nitroaniline	65	9.128	9.117	0.011	73	213728	120.0	120.9	
146 Dimethyl phthalate	163	9.363	9.347	0.016	97	717441	120.0	118.1	
148 1,3-Dinitrobenzene	168	9.395	9.379	0.016	75	131957	120.0	127.4	
149 2,6-Dinitrotoluene	165	9.427	9.411	0.016	76	173591	120.0	121.2	
150 Acenaphthylene	152	9.475	9.470	0.005	92	927252	120.0	120.8	
151 3-Nitroaniline	138	9.625	9.608	0.017	88	160931	120.0	117.6	
152 Acenaphthene	153	9.683	9.678	0.005	95	598721	120.0	121.6	
153 2,4-Dinitrophenol	184	9.758	9.742	0.016	83	268365	240.0	263.0	
154 4-Nitrophenol	109	9.881	9.865	0.016	88	314635	240.0	242.8	
155 Dibenzofuran	168	9.886	9.881	0.005	85	932463	120.0	125.2	
156 2,4-Dinitrotoluene	165	9.902	9.886	0.016	65	252597	120.0	124.2	
158 2,3,4,6-Tetrachlorophenol	232	10.041	10.036	0.005	71	222100	120.0	127.9	
161 Diethyl phthalate	149	10.175	10.159	0.016	96	753504	120.0	125.3	
162 Fluorene	166	10.271	10.266	0.005	81	726233	120.0	128.0	
163 4-Chlorophenyl phenyl ethe	204	10.276	10.271	0.005	92	411546	120.0	127.5	
164 4-Nitroaniline	138	10.340	10.308	0.032	71	148117	120.0	123.0	
165 4,6-Dinitro-2-methylphenol	198	10.362	10.340	0.022	82	336414	240.0	260.0	
171 Azobenzene	77	10.447	10.442	0.005	100	829235	120.0	125.7	
170 1,2-Diphenylhydrazine	77	10.447	10.442	0.005	98	829235	120.0	121.5	
175 4-Bromophenyl phenyl ether	248	10.795	10.789	0.005	63	240847	120.0	127.2	
179 Hexachlorobenzene	284	10.859	10.848	0.011	94	265710	120.0	129.3	
183 Pentachlorophenol	266	11.072	11.062	0.010	91	346955	240.0	244.4	
188 Phenanthrene	178	11.270	11.259	0.011	97	929364	120.0	127.0	
189 Anthracene	178	11.323	11.313	0.010	97	930152	120.0	126.6	
192 Carbazole	167	11.484	11.478	0.006	83	829872	120.0	124.0	
195 Di-n-butyl phthalate	149	11.820	11.809	0.011	100	1035565	120.0	123.9	
201 Fluoranthene	202	12.386	12.381	0.005	97	1282305	120.0	130.9	
204 Pyrene	202	12.589	12.584	0.005	98	1260762	120.0	117.7	
210 Butyl benzyl phthalate	149	13.145	13.140	0.005	97	459920	120.0	117.8	
217 Benzo[a]anthracene	228	13.637	13.631	0.006	98	1229164	120.0	125.0	
216 Bis(2-ethylhexyl) phthalat	149	13.631	13.631	0.000	96	734503	120.0	124.8	
218 Chrysene	228	13.669	13.663	0.006	93	1018246	120.0	123.7	
220 Di-n-octyl phthalate	149	14.171	14.165	0.006	100	1041264	120.0	119.7	
221 Benzo[b]fluoranthene	252	14.555	14.545	0.010	90	1151656	120.0	126.7	
222 Benzo[k]fluoranthene	252	14.587	14.571	0.016	97	1074311	120.0	123.5	
225 Benzo[a]pyrene	252	14.860	14.849	0.011	71	1038750	120.0	126.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
227 Indeno[1,2,3-cd]pyrene	276	16.025	16.003	0.022	92	1164030	120.0	129.4	
228 Dibenz(a,h)anthracene	278	16.025	16.003	0.022	70	994523	120.0	130.5	
229 Benzo[g,h,i]perylene	276	16.345	16.318	0.027	90	878474	120.0	125.0	
251 1-Methylnaphthalene	142		0.000						
263 n-Decane	57		0.000						
265 n-Octadecane	57		0.000						
256 Hexadecane	57		0.000						
S 233 3-Methylphenol	1				0		120.0	120.9	
S 234 3 & 4 Methylphenol	108				0			120.9	
S 232 Total Cresols	1				0			241.3	

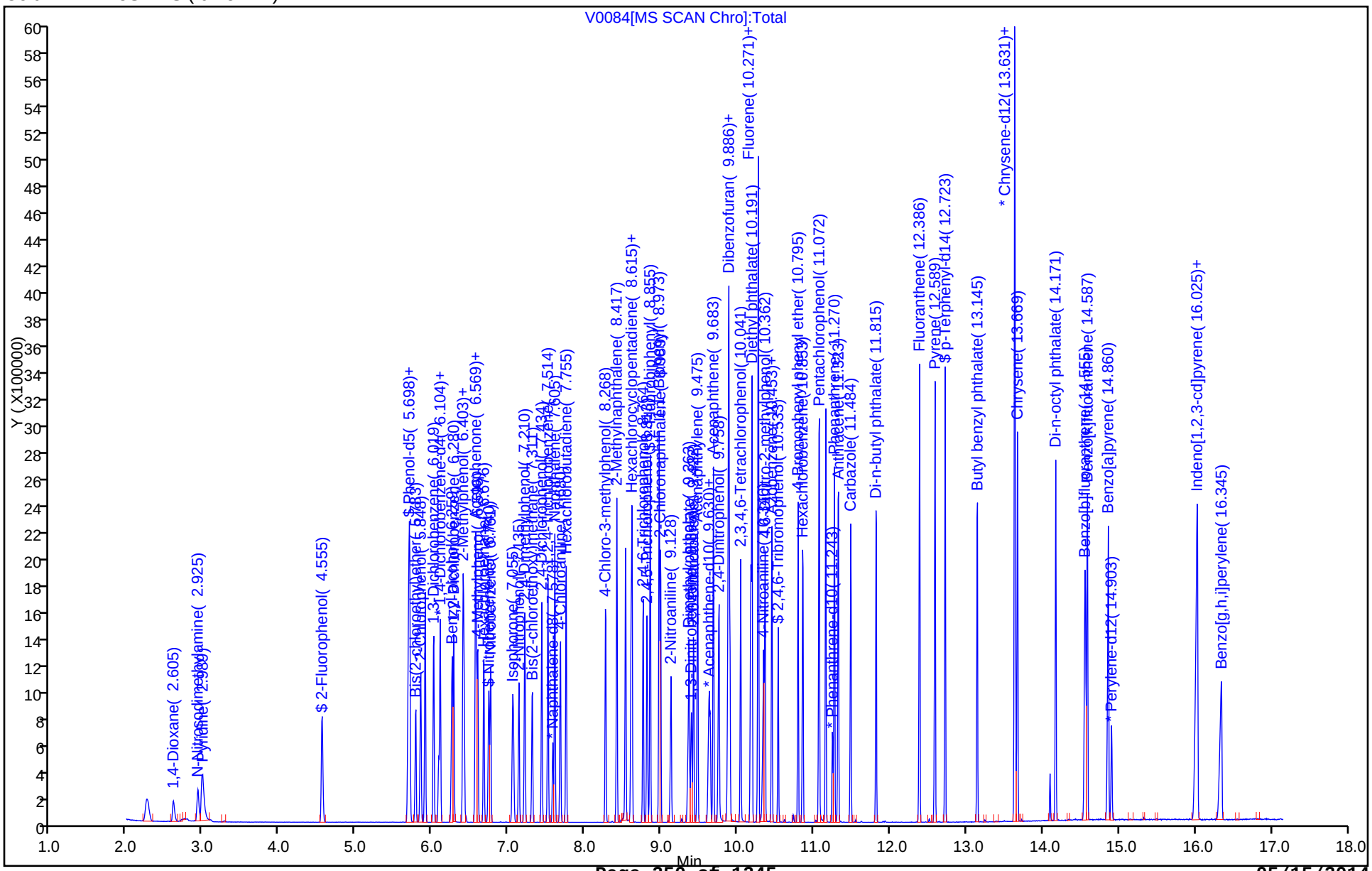
Report Date: 05-May-2014 15:03:59 Chrom Revision: 2.2 14-Apr-2014 13:40:08

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973V\20140505-31759.b\V0084.D

Injection Date:	05-May-2014 10:36:30	Instrument ID:	HP5973V	Operator ID:	hl
Lims ID:	IC 8270 - 120			Worklist Smp#:	7
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	V-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973V\20140505-31759.b\V0085.D
Lims ID: IC 8270 - 160
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 05-May-2014 11:00:30 ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 480-0031759-008
Operator ID: hl Instrument ID: HP5973V
Sublist: chrom-V-8270*sub41

Method: \\Bufchrom\ChromData\HP5973V\20140505-31759.b\V-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 05-May-2014 15:04:03 Calib Date: 05-May-2014 14:41:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5973V\20140505-31759.b\V0093.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK009

First Level Reviewer: lyh Date: 05-May-2014 15:04:03

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	6.083	6.083	0.000	95	65139	40.0	40.0	
* 2 Naphthalene-d8	136	7.578	7.573	0.005	99	223564	40.0	40.0	
* 3 Acenaphthene-d10	164	9.641	9.641	-0.001	92	147393	40.0	40.0	
* 4 Phenanthrene-d10	188	11.243	11.238	0.005	96	231061	40.0	40.0	
* 5 Chrysene-d12	240	13.647	13.642	0.005	96	273772	40.0	40.0	
* 6 Perylene-d12	264	14.903	14.897	0.006	97	248798	40.0	40.0	
$ 7 2-Fluorophenol	112	4.560	4.555	0.005	93	342422	160.0	169.3	
$ 8 Phenol-d5	99	5.687	5.677	0.010	0	466841	160.0	167.3	
$ 9 Nitrobenzene-d5	82	6.740	6.729	0.011	91	454017	160.0	159.8	
$ 10 2-Fluorobiphenyl	172	8.855	8.850	0.005	99	912341	160.0	167.6	
$ 11 2,4,6-Tribromophenol	330	10.538	10.527	0.011	93	156041	160.0	184.3	
$ 12 p-Terphenyl-d14	244	12.723	12.718	0.005	99	1074081	160.0	169.5	
68 1,4-Dioxane	88	2.626	2.610	0.016	95	118607	160.0	165.9	
69 N-Nitrosodimethylamine	42	2.941	2.931	0.010	81	194081	160.0	172.8	
70 Pyridine	52	3.005	2.984	0.021	89	256468	160.0	179.6	
81 Phenol	94	5.703	5.693	0.010	78	521364	160.0	168.1	
82 Aniline	93	5.703	5.693	0.010	64	600351	160.0	168.5	
83 Bis(2-chloroethyl)ether	93	5.783	5.773	0.010	95	360768	160.0	163.4	
84 2-Chlorophenol	128	5.853	5.842	0.011	96	346268	160.0	165.3	
87 1,3-Dichlorobenzene	146	6.018	6.013	0.005	94	383275	160.0	163.6	
88 1,4-Dichlorobenzene	146	6.104	6.099	0.005	89	400924	160.0	165.2	
90 Benzyl alcohol	108	6.264	6.248	0.016	88	254416	160.0	165.6	
91 1,2-Dichlorobenzene	146	6.280	6.275	0.005	88	369733	160.0	163.7	
92 2-Methylphenol	108	6.403	6.398	0.005	93	343831	160.0	163.8	
93 2,2'-oxybis[1-chloropropan	45	6.414	6.408	0.006	89	516581	160.0	159.8	
94 Acetophenone	105	6.569	6.558	0.011	91	547714	160.0	166.2	
95 N-Nitrosodi-n-propylamine	70	6.579	6.563	0.016	91	294926	160.0	164.7	
96 4-Methylphenol	108	6.595	6.585	0.010	92	351272	160.0	167.4	
99 Hexachloroethane	117	6.676	6.670	0.006	91	160093	160.0	166.3	
102 Nitrobenzene	77	6.766	6.756	0.010	91	452069	160.0	160.8	
106 Isophorone	82	7.060	7.039	0.021	99	734387	160.0	157.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
107 2-Nitrophenol	139	7.135	7.130	0.005	90	176987	160.0	160.9	
108 2,4-Dimethylphenol	107	7.215	7.204	0.011	98	400034	160.0	162.4	
111 Bis(2-chloroethoxy)methane	93	7.311	7.301	0.010	98	405671	160.0	163.5	
114 2,4-Dichlorophenol	162	7.434	7.429	0.005	96	325732	160.0	164.6	
117 1,2,4-Trichlorobenzene	180	7.514	7.509	0.005	93	400556	160.0	163.6	
118 Naphthalene	128	7.605	7.600	0.005	98	994740	160.0	166.0	
119 4-Chloroaniline	127	7.680	7.675	0.005	83	414962	160.0	164.0	
121 Hexachlorobutadiene	225	7.755	7.749	0.006	94	271968	160.0	172.6	
129 4-Chloro-3-methylphenol	107	8.273	8.268	0.005	89	363992	160.0	168.6	
131 2-Methylnaphthalene	142	8.417	8.412	0.005	88	709205	160.0	165.7	
134 Hexachlorocyclopentadiene	237	8.604	8.599	0.005	96	248149	160.0	168.3	
135 1,2,4,5-Tetrachlorobenzene	216	8.620	8.609	0.011	97	450786	160.0	169.6	
137 2,4,6-Trichlorophenol	196	8.764	8.759	0.005	92	273333	160.0	165.9	
138 2,4,5-Trichlorophenol	196	8.812	8.812	0.000	93	285855	160.0	167.1	
140 1,1'-Biphenyl	154	8.973	8.967	0.006	96	905769	160.0	169.7	
141 2-Chloronaphthalene	162	8.994	8.983	0.011	96	719968	160.0	167.1	
143 2-Nitroaniline	65	9.128	9.117	0.011	73	248868	160.0	164.5	
146 Dimethyl phthalate	163	9.368	9.347	0.021	97	847981	160.0	163.2	
148 1,3-Dinitrobenzene	168	9.400	9.379	0.021	80	147593	160.0	162.2	
149 2,6-Dinitrotoluene	165	9.427	9.411	0.016	70	205010	160.0	167.4	
150 Acenaphthylene	152	9.480	9.470	0.010	92	1093138	160.0	166.5	
151 3-Nitroaniline	138	9.630	9.608	0.022	88	193389	160.0	165.2	
152 Acenaphthene	153	9.683	9.678	0.005	95	706610	160.0	167.7	
153 2,4-Dinitrophenol	184	9.763	9.742	0.021	85	318936	320.0	365.3	
154 4-Nitrophenol	109	9.881	9.865	0.016	82	367326	320.0	329.5	
155 Dibenzofuran	168	9.886	9.881	0.005	85	1111009	160.0	174.4	
156 2,4-Dinitrotoluene	165	9.902	9.886	0.016	67	306648	160.0	176.2	
158 2,3,4,6-Tetrachlorophenol	232	10.041	10.036	0.005	72	271355	160.0	182.7	
161 Diethyl phthalate	149	10.175	10.159	0.016	96	871156	160.0	169.4	
162 Fluorene	166	10.271	10.266	0.005	81	865118	160.0	178.2	
163 4-Chlorophenyl phenyl ethe	204	10.276	10.271	0.005	92	488693	160.0	176.9	
164 4-Nitroaniline	138	10.346	10.308	0.038	70	173915	160.0	168.8	
165 4,6-Dinitro-2-methylphenol	198	10.367	10.340	0.027	83	398862	320.0	359.9	
170 1,2-Diphenylhydrazine	77	10.453	10.442	0.011	98	963446	160.0	165.0	
171 Azobenzene	77	10.453	10.442	0.011	100	963446	160.0	170.5	
175 4-Bromophenyl phenyl ether	248	10.794	10.789	0.005	63	293879	160.0	181.2	
179 Hexachlorobenzene	284	10.859	10.848	0.011	94	313850	160.0	178.3	
183 Pentachlorophenol	266	11.072	11.062	0.010	90	418434	320.0	341.2	
188 Phenanthrene	178	11.270	11.259	0.011	97	1086814	160.0	173.3	
189 Anthracene	178	11.323	11.313	0.010	97	1094533	160.0	173.9	
192 Carbazole	167	11.484	11.478	0.006	83	1003890	160.0	175.1	
195 Di-n-butyl phthalate	149	11.820	11.809	0.011	100	1226015	160.0	171.2	
201 Fluoranthene	202	12.386	12.381	0.005	97	1535867	160.0	183.0	
204 Pyrene	202	12.589	12.584	0.005	98	1506187	160.0	163.7	
210 Butyl benzyl phthalate	149	13.145	13.140	0.005	98	550493	160.0	164.2	
217 Benzo[a]anthracene	228	13.637	13.631	0.005	98	1433037	160.0	169.7	
216 Bis(2-ethylhexyl) phthalat	149	13.631	13.631	0.000	96	877307	160.0	173.6	
218 Chrysene	228	13.674	13.663	0.011	93	1194470	160.0	169.0	
220 Di-n-octyl phthalate	149	14.171	14.165	0.006	100	1250291	160.0	167.4	
221 Benzo[b]fluoranthene	252	14.561	14.545	0.016	90	1334352	160.0	164.8	
222 Benzo[k]fluoranthene	252	14.587	14.571	0.016	97	1363982	160.0	176.0	
225 Benzo[a]pyrene	252	14.860	14.849	0.011	72	1246446	160.0	170.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
227 Indeno[1,2,3-cd]pyrene	276	16.035	16.003	0.032	89	1390191	160.0	173.4	
228 Dibenz(a,h)anthracene	278	16.035	16.003	0.032	59	1193649	160.0	175.8	
229 Benzo[g,h,i]perylene	276	16.345	16.318	0.027	90	1058666	160.0	169.1	
265 n-Octadecane	57		0.000						
256 Hexadecane	57		0.000						
251 1-Methylnaphthalene	142		0.000						
263 n-Decane	57		0.000						
S 234 3 & 4 Methylphenol	108				0			167.4	
S 233 3-Methylphenol	1				0		160.0	167.4	
S 232 Total Cresols	1				0			331.2	

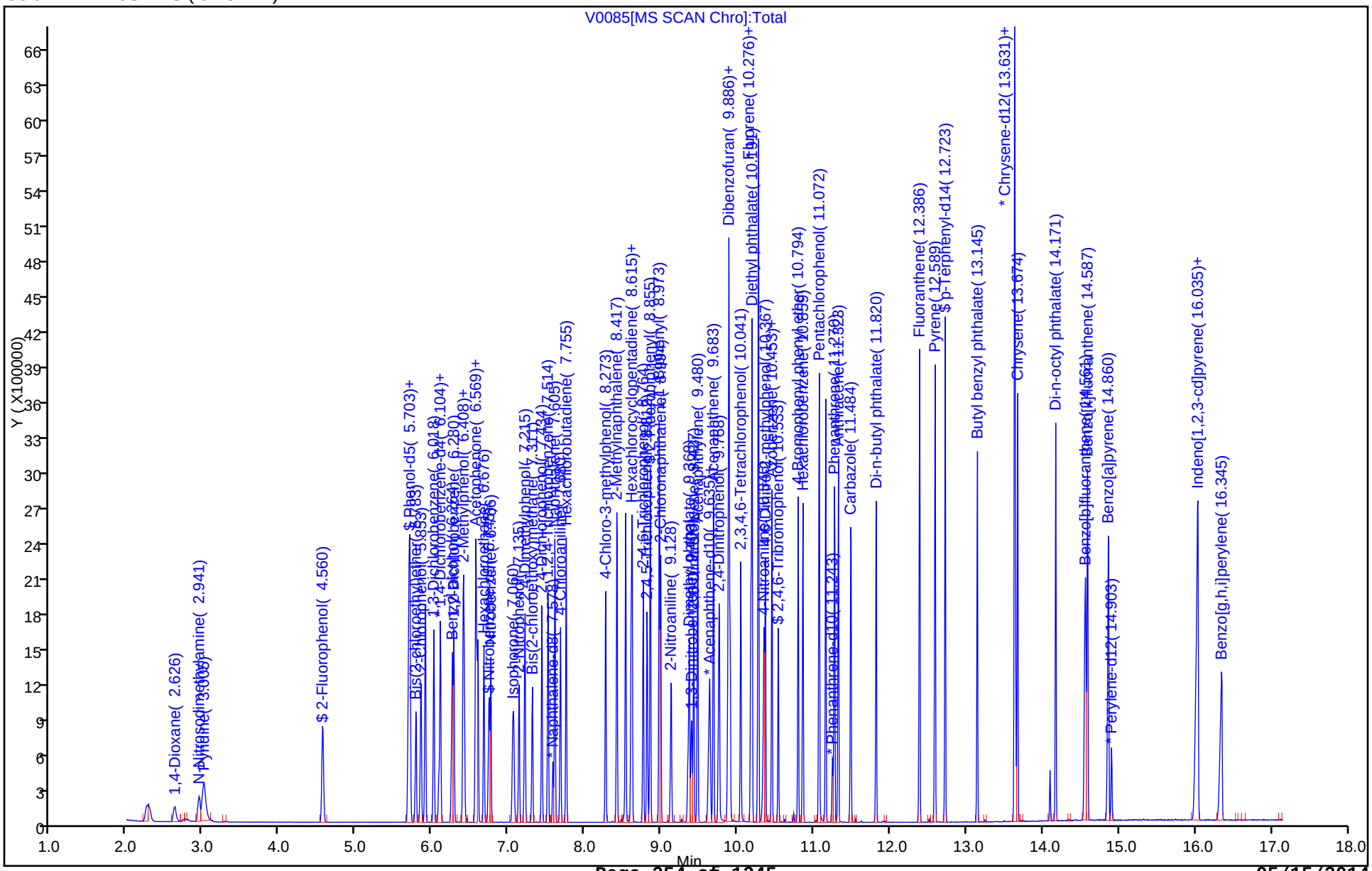
Report Date: 05-May-2014 15:04:04 Chrom Revision: 2.2 14-Apr-2014 13:40:08

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973V\20140505-31759.b\V0085.D

Injection Date:	05-May-2014 11:00:30	Instrument ID:	HP5973V	Operator ID:	hl
Lims ID:	IC 8270 - 160			Worklist Smp#:	8
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	V-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.: 480-58807-1

SDG No.:

Lab Sample ID: CCVIS 480-180978/3 Calibration Date: 05/08/2014 15:16

Instrument ID: HP5973V Calib Start Date: 05/05/2014 08:54

GC Column: RXI-5Sil MS ID: 0.25(mm) Calib End Date: 05/05/2014 11:00

Lab File ID: V0228.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.4391	0.5546	0.0100	63200	50000	26.3	50.0
N-Nitrosodimethylamine	Ave	0.6899	0.7783	0.0100	56400	50000	12.8	25.0
Pyridine	Ave	0.8771	1.161	0.0100	66200	50000	32.3	50.0
Aniline	Ave	2.187	2.236	0.0100	51100	50000	2.2	50.0
Phenol	Ave	1.904	1.913	0.8000	50200	50000	0.5	20.0
Bis(2-chloroethyl)ether	Ave	1.356	1.333	0.7000	49200	50000	-1.7	20.0
2-Chlorophenol	Ave	1.286	1.291	0.8000	50200	50000	0.3	20.0
1,3-Dichlorobenzene	Ave	1.439	1.431	0.0100	49700	50000	-0.6	20.0
1,4-Dichlorobenzene	Ave	1.491	1.428	0.0100	47900	50000	-4.2	20.0
Benzyl alcohol	Ave	0.9436	0.9444	0.0100	50000	50000	0.0	50.0
1,2-Dichlorobenzene	Ave	1.387	1.361	0.0100	49100	50000	-1.9	20.0
2-Methylphenol	Ave	1.289	1.292	0.7000	50100	50000	0.2	20.0
bis (2-chloroisopropyl) ether	Ave	1.985	1.978	0.0100	49800	50000	-0.3	20.0
Acetophenone	Ave	2.023	2.053	0.0100	50700	50000	1.5	40.0
N-Nitrosodi-n-propylamine	Ave	1.099	1.089	0.5000	49500	50000	-0.9	20.0
4-Methylphenol	Ave	1.289	1.291	0.6000	50100	50000	0.2	20.0
Hexachloroethane	Ave	0.5912	0.5895	0.3000	49900	50000	-0.3	20.0
Nitrobenzene	Ave	0.5029	0.5156	0.2000	51300	50000	2.5	20.0
Isophorone	Ave	0.8358	0.8555	0.4000	51200	50000	2.4	20.0
2-Nitrophenol	Ave	0.1969	0.1927	0.1000	48900	50000	-2.1	20.0
2,4-Dimethylphenol	Ave	0.4407	0.4464	0.2000	50700	50000	1.3	20.0
Bis(2-chloroethoxy)methane	Ave	0.4439	0.4673	0.3000	52600	50000	5.3	20.0
2,4-Dichlorophenol	Ave	0.3540	0.3597	0.2000	50800	50000	1.6	20.0
1,2,4-Trichlorobenzene	Ave	0.4379	0.4269	0.0100	48700	50000	-2.5	20.0
Naphthalene	Ave	1.072	1.063	0.7000	49600	50000	-0.9	20.0
4-Chloroaniline	Ave	0.4527	0.4515	0.0100	49900	50000	-0.3	20.0
Hexachlorobutadiene	Ave	0.2820	0.2828	0.0100	50100	50000	0.3	20.0
4-Chloro-3-methylphenol	Ave	0.3862	0.3806	0.2000	49300	50000	-1.5	20.0
2-Methylnaphthalene	Ave	0.7657	0.7637	0.4000	49900	50000	-0.3	20.0
Hexachlorocyclopentadiene	Lin1		0.3555	0.0500	47400	50000	-5.2	20.0
1,2,4,5-Tetrachlorobenzene	Ave	0.7215	0.7262	0.0100	50300	50000	0.7	40.0
2,4,6-Trichlorophenol	Ave	0.4472	0.4455	0.2000	49800	50000	-0.4	20.0
2,4,5-Trichlorophenol	Ave	0.4642	0.4696	0.2000	50600	50000	1.2	20.0
Biphenyl	Ave	1.449	1.441	0.0100	49700	50000	-0.5	40.0
2-Chloronaphthalene	Ave	1.170	1.209	0.8000	51700	50000	3.4	25.0
2-Nitroaniline	Ave	0.4105	0.4386	0.0100	53400	50000	6.8	20.0
Dimethyl phthalate	Ave	1.410	1.426	0.0100	50600	50000	1.1	20.0
1,3-Dinitrobenzene	Ave	0.1628	0.1618	0.0100	49700	50000	-0.6	50.0
2,6-Dinitrotoluene	Ave	0.3324	0.3316	0.2000	49900	50000	-0.2	25.0
Acenaphthylene	Ave	1.782	1.764	0.9000	49500	50000	-1.0	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1

SDG No.:

Lab Sample ID: CCVIS 480-180978/3 Calibration Date: 05/08/2014 15:16

Instrument ID: HP5973V Calib Start Date: 05/05/2014 08:54

GC Column: RXI-5Sil MS ID: 0.25(mm) Calib End Date: 05/05/2014 11:00

Lab File ID: V0228.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
3-Nitroaniline	Ave	0.3176	0.3101	0.0100	48800	50000	-2.4	20.0
Acenaphthene	Ave	1.143	1.150	0.0100	50300	50000	0.6	20.0
2,4-Dinitrophenol	Ave	0.2370	0.2462	0.0100	104000	100000	3.9	20.0
4-Nitrophenol	Lin1		0.2979	0.0100	102000	100000	2.0	20.0
Dibenzofuran	Ave	1.729	1.702	0.8000	49200	50000	-1.6	20.0
2,4-Dinitrotoluene	Ave	0.4724	0.4723	0.0100	50000	50000	-0.0	20.0
2,3,4,6-Tetrachlorophenol	Ave	0.4031	0.3967	0.0100	49200	50000	-1.6	40.0
Diethyl phthalate	Ave	1.396	1.406	0.0100	50400	50000	0.7	20.0
Fluorene	Ave	1.317	1.329	0.9000	50400	50000	0.9	20.0
4-Chlorophenyl phenyl ether	Ave	0.7497	0.7519	0.4000	50100	50000	0.3	20.0
4-Nitroaniline	Ave	0.2795	0.2900	0.0100	51900	50000	3.7	20.0
4,6-Dinitro-2-methylphenol	Ave	0.1919	0.1768	0.0100	92200	100000	-7.8	20.0
1,2-Diphenylhydrazine	Ave	1.585	1.607	0.0100	50700	50000	1.4	25.0
4-Bromophenyl phenyl ether	Ave	0.2807	0.2540	0.1000	45200	50000	-9.5	20.0
Hexachlorobenzene	Ave	0.3047	0.2705	0.1000	44400	50000	-11.2	20.0
Pentachlorophenol	Lin1		0.1586	0.0500	80300	100000	-19.7	20.0
Phenanthrene	Ave	1.085	1.068	0.7000	49200	50000	-1.6	20.0
Anthracene	Ave	1.090	1.093	0.7000	50100	50000	0.3	20.0
Carbazole	Ave	0.9925	0.997	0.0100	50200	50000	0.4	20.0
Di-n-butyl phthalate	Ave	1.240	1.255	0.0100	50600	50000	1.2	20.0
Fluoranthene	Ave	1.453	1.443	0.6000	49600	50000	-0.7	20.0
Pyrene	Ave	1.344	1.194	0.6000	44400	50000	-11.2	20.0
Butyl benzyl phthalate	Ave	0.4898	0.4640	0.0100	47400	50000	-5.3	20.0
Benzo[a]anthracene	Ave	1.234	1.182	0.8000	47900	50000	-4.2	20.0
Bis(2-ethylhexyl) phthalate	Ave	0.7382	0.7107	0.0100	48100	50000	-3.7	20.0
Chrysene	Ave	1.033	1.019	0.7000	49300	50000	-1.3	20.0
Di-n-octyl phthalate	Ave	1.091	1.088	0.0100	49900	50000	-0.3	20.0
Benzo[b]fluoranthene	Ave	1.302	1.268	0.7000	48700	50000	-2.6	20.0
Benzo[k]fluoranthene	Ave	1.246	1.208	0.7000	48500	50000	-3.1	20.0
Benzo[a]pyrene	Ave	1.176	1.154	0.7000	49000	50000	-1.9	20.0
Dibenz(a,h)anthracene	Ave	1.091	1.088	0.4000	49900	50000	-0.3	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.289	1.291	0.5000	50100	50000	0.2	20.0
Benzo[g,h,i]perylene	Ave	1.007	1.007	0.5000	50000	50000	0.0	20.0
2-Fluorophenol	Ave	1.242	1.256	0.0100	50600	50000	1.1	25.0
Phenol-d5	Ave	1.714	1.783	0.0100	52000	50000	4.0	25.0
Nitrobenzene-d5	Ave	0.5082	0.5144	0.0100	50600	50000	1.2	25.0
2-Fluorobiphenyl	Ave	1.477	1.464	0.0100	49600	50000	-0.9	25.0
2,4,6-Tribromophenol	Ave	0.1465	0.1222	0.0100	41700	50000	-16.6	25.0
p-Terphenyl-d14	Ave	0.9261	0.8199	0.0100	44300	50000	-11.5	25.0

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973V\20140508-31911.b\V0228.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 08-May-2014 15:16:30 ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 480-0031911-003
Operator ID: hl Instrument ID: HP5973V
Sublist: chrom-V-8270*sub41

Method: \\Bufchrom\ChromData\HP5973V\20140508-31911.b\V-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 09-May-2014 08:04:07 Calib Date: 05-May-2014 14:41:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5973V\20140505-31759.b\V0093.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK009

First Level Reviewer: rimmera Date: 09-May-2014 00:24:16

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	6.077	6.077	0.000	95	86817	40.0	40.0	
* 2 Naphthalene-d8	136	7.573	7.573	0.000	99	290235	40.0	40.0	
* 3 Acenaphthene-d10	164	9.635	9.635	0.000	91	187053	40.0	40.0	
* 4 Phenanthrene-d10	188	11.238	11.238	0.000	96	330607	40.0	40.0	
* 5 Chrysene-d12	240	13.642	13.642	0.000	96	400864	40.0	40.0	
* 6 Perylene-d12	264	14.897	14.897	0.000	98	388016	40.0	40.0	
$ 7 2-Fluorophenol	112	4.549	4.549	0.000	91	136248	50.0	50.6	
$ 8 Phenol-d5	99	5.677	5.677	0.000	0	193445	50.0	52.0	
$ 9 Nitrobenzene-d5	82	6.729	6.729	0.000	90	186624	50.0	50.6	
$ 10 2-Fluorobiphenyl	172	8.850	8.850	0.000	99	342359	50.0	49.6	
$ 11 2,4,6-Tribromophenol	330	10.527	10.527	0.000	89	50487	50.0	41.7	
$ 12 p-Terphenyl-d14	244	12.718	12.718	0.000	99	410818	50.0	44.3	
68 1,4-Dioxane	88	2.599	2.599	0.000	95	60182	50.0	63.2	
69 N-Nitrosodimethylamine	42	2.920	2.920	0.000	81	84461	50.0	56.4	
70 Pyridine	52	2.973	2.973	0.000	88	125942	50.0	66.2	
81 Phenol	94	5.693	5.693	0.000	79	207646	50.0	50.2	
82 Aniline	93	5.693	5.693	0.000	69	242631	50.0	51.1	
83 Bis(2-chloroethyl)ether	93	5.773	5.773	0.000	96	144672	50.0	49.2	
84 2-Chlorophenol	128	5.842	5.842	0.000	94	140062	50.0	50.2	
87 1,3-Dichlorobenzene	146	6.013	6.013	0.000	94	155271	50.0	49.7	
88 1,4-Dichlorobenzene	146	6.099	6.099	0.000	80	155015	50.0	47.9	
90 Benzyl alcohol	108	6.248	6.248	0.000	88	102483	50.0	50.0	
91 1,2-Dichlorobenzene	146	6.275	6.275	0.000	87	147713	50.0	49.1	
92 2-Methylphenol	108	6.398	6.398	0.000	93	140172	50.0	50.1	
93 2,2'-oxybis[1-chloropropan	45	6.403	6.403	0.000	89	214700	50.0	49.8	
94 Acetophenone	105	6.558	6.558	0.000	90	222820	50.0	50.7	
95 N-Nitrosodi-n-propylamine	70	6.563	6.563	0.000	90	118219	50.0	49.5	
96 4-Methylphenol	108	6.585	6.585	0.000	90	140052	50.0	50.1	
99 Hexachloroethane	117	6.665	6.665	0.000	90	63977	50.0	49.9	
102 Nitrobenzene	77	6.750	6.750	0.000	90	187069	50.0	51.3	
106 Isophorone	82	7.039	7.039	0.000	96	310356	50.0	51.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
107 2-Nitrophenol	139	7.130	7.130	0.000	91	69912	50.0	48.9	
108 2,4-Dimethylphenol	107	7.204	7.204	0.000	98	161966	50.0	50.7	
111 Bis(2-chloroethoxy)methane	93	7.301	7.301	0.000	98	169544	50.0	52.6	
114 2,4-Dichlorophenol	162	7.423	7.423	0.000	95	130482	50.0	50.8	
117 1,2,4-Trichlorobenzene	180	7.509	7.509	0.000	90	154888	50.0	48.7	
118 Naphthalene	128	7.600	7.600	0.000	97	385561	50.0	49.6	
119 4-Chloroaniline	127	7.669	7.669	0.000	81	163792	50.0	49.9	
121 Hexachlorobutadiene	225	7.749	7.749	0.000	94	102606	50.0	50.1	
129 4-Chloro-3-methylphenol	107	8.267	8.267	0.000	87	138091	50.0	49.3	
131 2-Methylnaphthalene	142	8.412	8.412	0.000	85	277066	50.0	49.9	
134 Hexachlorocyclopentadiene	237	8.599	8.599	0.000	95	83114	50.0	47.4	
135 1,2,4,5-Tetrachlorobenzene	216	8.609	8.609	0.000	98	169788	50.0	50.3	
137 2,4,6-Trichlorophenol	196	8.759	8.759	0.000	93	104163	50.0	49.8	
138 2,4,5-Trichlorophenol	196	8.812	8.812	0.000	91	109792	50.0	50.6	
140 1,1'-Biphenyl	154	8.962	8.962	0.000	96	336888	50.0	49.7	
141 2-Chloronaphthalene	162	8.983	8.983	0.000	96	282750	50.0	51.7	
143 2-Nitroaniline	65	9.117	9.117	0.000	72	102547	50.0	53.4	
146 Dimethyl phthalate	163	9.347	9.347	0.000	96	333399	50.0	50.6	
148 1,3-Dinitrobenzene	168	9.379	9.379	0.000	82	58690	50.0	49.7	
149 2,6-Dinitrotoluene	165	9.411	9.411	0.000	88	77533	50.0	49.9	
150 Acenaphthylene	152	9.470	9.470	0.000	91	412463	50.0	49.5	
151 3-Nitroaniline	138	9.608	9.608	0.000	86	72494	50.0	48.8	
152 Acenaphthene	153	9.673	9.673	0.000	95	268831	50.0	50.3	
153 2,4-Dinitrophenol	184	9.742	9.742	0.000	83	115143	100.0	103.9	
154 4-Nitrophenol	109	9.865	9.865	0.000	92	139303	100.0	102.0	
155 Dibenzofuran	168	9.876	9.876	0.000	86	397971	50.0	49.2	
156 2,4-Dinitrotoluene	165	9.886	9.886	0.000	74	110422	50.0	50.0	
158 2,3,4,6-Tetrachlorophenol	232	10.030	10.030	0.000	73	92743	50.0	49.2	
161 Diethyl phthalate	149	10.159	10.159	0.000	96	328828	50.0	50.4	
162 Fluorene	166	10.260	10.260	0.000	81	310666	50.0	50.4	
163 4-Chlorophenyl phenyl ethe	204	10.265	10.265	0.000	94	175816	50.0	50.1	
164 4-Nitroaniline	138	10.314	10.314	0.000	74	67797	50.0	51.9	
165 4,6-Dinitro-2-methylphenol	198	10.340	10.340	0.000	79	146151	100.0	92.2	
170 1,2-Diphenylhydrazine	77	10.436	10.436	0.000	98	375625	50.0	50.7	
171 Azobenzene	77	10.436	10.436	0.000	100	375625	50.0	46.4	
175 4-Bromophenyl phenyl ether	248	10.784	10.784	0.000	66	104972	50.0	45.2	
179 Hexachlorobenzene	284	10.848	10.848	0.000	93	111780	50.0	44.4	
183 Pentachlorophenol	266	11.061	11.061	0.000	86	131095	100.0	80.3	
188 Phenanthrene	178	11.259	11.259	0.000	97	441486	50.0	49.2	
189 Anthracene	178	11.313	11.313	0.000	97	451543	50.0	50.1	
192 Carbazole	167	11.478	11.478	0.000	83	411983	50.0	50.2	
195 Di-n-butyl phthalate	149	11.809	11.809	0.000	100	518694	50.0	50.6	
201 Fluoranthene	202	12.376	12.376	0.000	97	596192	50.0	49.6	
204 Pyrene	202	12.579	12.579	0.000	98	598384	50.0	44.4	
210 Butyl benzyl phthalate	149	13.134	13.134	0.000	98	232489	50.0	47.4	
216 Bis(2-ethylhexyl) phthalat	149	13.626	13.626	0.000	88	356093	50.0	48.1	
217 Benzo[a]anthracene	228	13.626	13.626	0.000	98	592153	50.0	47.9	
218 Chrysene	228	13.663	13.663	0.000	92	510469	50.0	49.3	
220 Di-n-octyl phthalate	149	14.165	14.165	0.000	100	545378	50.0	49.9	
221 Benzo[b]fluoranthene	252	14.550	14.550	0.000	90	615111	50.0	48.7	
222 Benzo[k]fluoranthene	252	14.571	14.571	0.000	97	585675	50.0	48.5	
225 Benzo[a]pyrene	252	14.849	14.849	0.000	71	559676	50.0	49.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
227 Indeno[1,2,3-cd]pyrene	276	16.003	16.003	0.000	83	626170	50.0	50.1	
228 Dibenz(a,h)anthracene	278	16.003	16.003	0.000	65	527912	50.0	49.9	
229 Benzo[g,h,i]perylene	276	16.318	16.318	0.000	90	488476	50.0	50.0	
256 Hexadecane	57		0.000						
265 n-Octadecane	57		0.000						
251 1-Methylnaphthalene	142		0.000						
263 n-Decane	57		0.000						
S 234 3 & 4 Methylphenol	108				0			50.1	
S 233 3-Methylphenol	1				0		50.0	50.1	
S 232 Total Cresols	1				0			100.2	

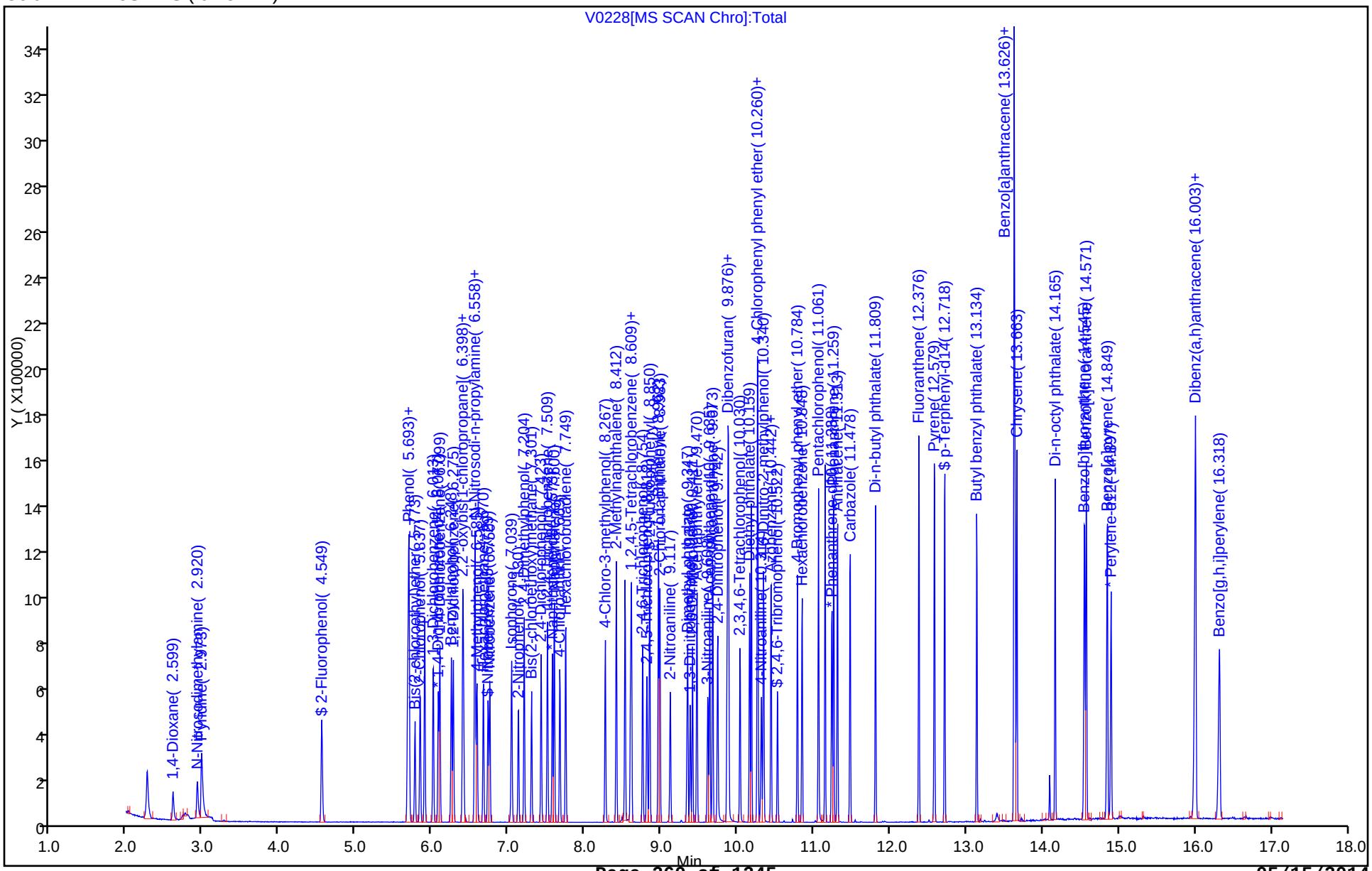
Report Date: 09-May-2014 08:04:08 Chrom Revision: 2.2 14-Apr-2014 13:40:08

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973V\20140508-31911.b\V0228.D

Injection Date:	08-May-2014 15:16:30	Instrument ID:	HP5973V	Operator ID:	hl
Lims ID:	CCVIS			Worklist Smp#:	3
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	V-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973V\20140505-31759.b\V0079.D
Lims ID: DFTPP
Client ID:
Sample Type: DFTPP
Inject. Date: 05-May-2014 08:32:30 ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 480-0031759-002
Operator ID: hl Instrument ID: HP5973V

Method: \\Bufchrom\ChromData\HP5973V\20140505-31759.b\V-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 05-May-2014 15:03:41 Calib Date: 05-May-2014 14:41:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5973V\20140505-31759.b\V0093.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK009

First Level Reviewer: lyh Date: 05-May-2014 15:03:41

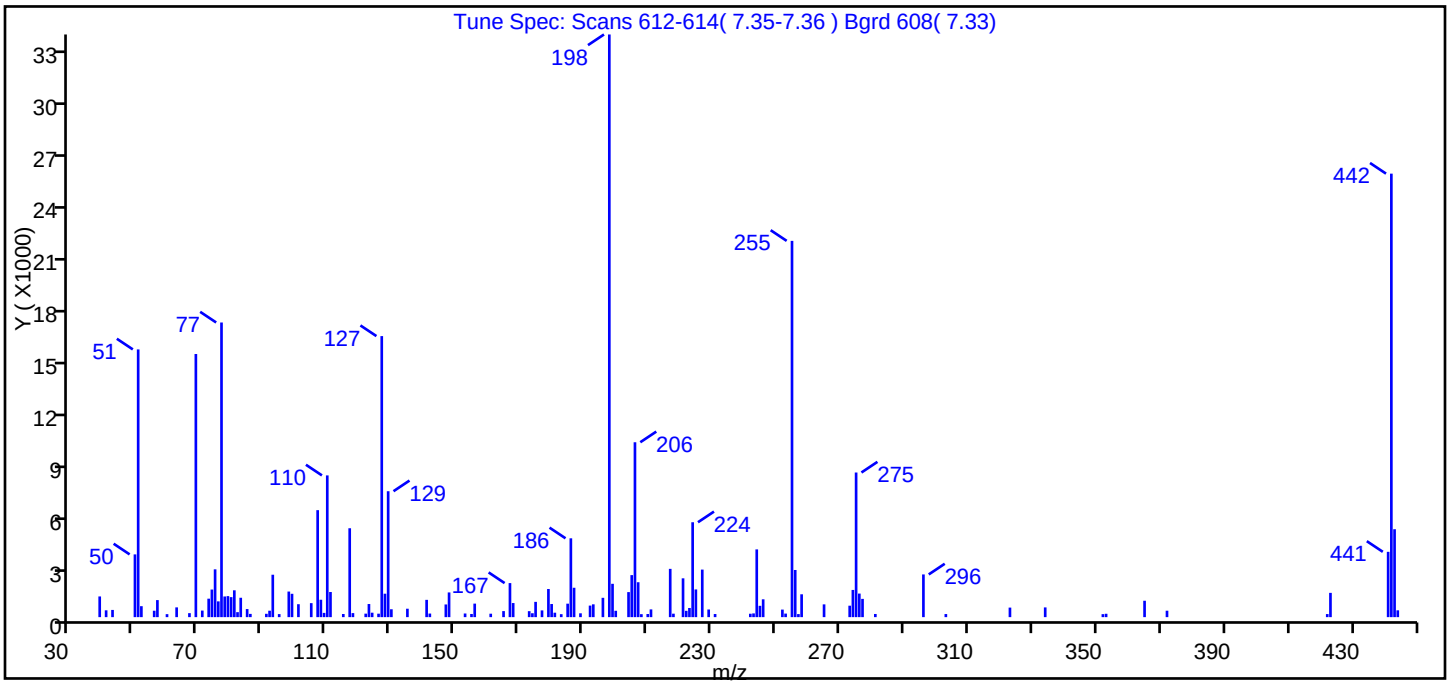
Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
104 Pentachlorophenol_T	266	6.943	6.943	0.000	81	36315	NR	NR	
112 DFTPP									
128 Benzidine_T	184	8.364	8.364	0.000	97	188493	NR	NR	
136 4,4'-DDD	235		8.828						
130 4,4'-DDE	246		9.009						
139 4,4'-DDT	235	9.075	9.075	0.000	87	76341	NR	NR	

MS Tune Report

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973V\20140505-31759.b\V0079.D
Injection Date: 05-May-2014 08:32:30 Instrument ID: HP5973V
Lims ID: DFTPP
Client ID:
Operator ID: hl ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: V-8270 Limit Group: MB - 8270D ICAL
Tune Method: DFTPP Method 8270D, BP 198

112 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	45.90
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Present	45.20
70	Less than 2.00% of mass 69	0.00 (0.00)
127	10.00 - 80.00% of mass 198	48.20
197	Less than 2.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	5.70
275	10.00 - 60.00% of mass 198	24.80
365	Greater than 1.00% of mass 198	2.80
441	Present, but Less than 24.00% of mass 442	11.20 (14.70)
442	Greater than 50.00% of mass 198	76.10
443	15.00 - 24.00% of mass 442	15.10 (19.80)

Data File: \\Bufchrom\ChromData\HP5973V\20140505-31759.b\V0079.D\V-8270.rslt\spectra.d
Injection Date: 05-May-2014 08:32:30
Spectrum: Tune Spec: Scans 612-614(7.35-7.36) Bgrd 608(7.33)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 129

m/z	Y	m/z	Y	m/z	Y	m/z	Y
39.00	1197	105.00	810	179.00	1627	244.00	3918
41.00	395	107.00	6187	180.00	759	245.00	655
43.00	417	108.00	1006	181.00	257	246.00	1032
50.00	3629	109.00	246	183.00	172	252.00	437
51.00	15483	110.00	8197	185.00	779	253.00	205
52.00	634	111.00	1453	186.00	4559	255.00	21760
56.00	371	115.00	182	187.00	1699	256.00	2727
57.00	986	117.00	5141	189.00	222	257.00	177
60.00	173	118.00	234	192.00	668	258.00	1322
63.00	565	122.00	202	193.00	741	265.00	739
67.00	231	123.00	759	196.00	1118	273.00	662
69.00	15217	124.00	257	198.00	33696	274.00	1573
71.00	380	126.00	200	199.00	1928	275.00	8364
73.00	1068	127.00	16253	200.00	368	276.00	1363
74.00	1596	128.00	1355	204.00	1448	277.00	1056
75.00	2765	129.00	7282	205.00	2430	281.00	183
76.00	912	130.00	456	206.00	10114	296.00	2470
77.00	17040	135.00	487	207.00	2019	303.00	179
78.00	1195	141.00	1000	208.00	172	323.00	552
79.00	1216	142.00	208	210.00	181	334.00	563
80.00	1157	147.00	734	211.00	448	352.00	173
81.00	1552	148.00	1429	217.00	2792	353.00	195
82.00	288	153.00	211	218.00	200	365.00	948
83.00	1121	155.00	183	221.00	2245	372.00	372
85.00	467	156.00	782	222.00	365	422.00	178
86.00	188	161.00	199	223.00	529	423.00	1404
91.00	193	165.00	350	224.00	5488	441.00	3777
92.00	372	167.00	1969	225.00	1602	442.00	25648
93.00	2453	168.00	815	227.00	2750	443.00	5085
95.00	177	173.00	346	229.00	442	444.00	395
98.00	1480	174.00	226	231.00	181		
99.00	1350	175.00	884	242.00	197		
101.00	748	177.00	390	243.00	216		

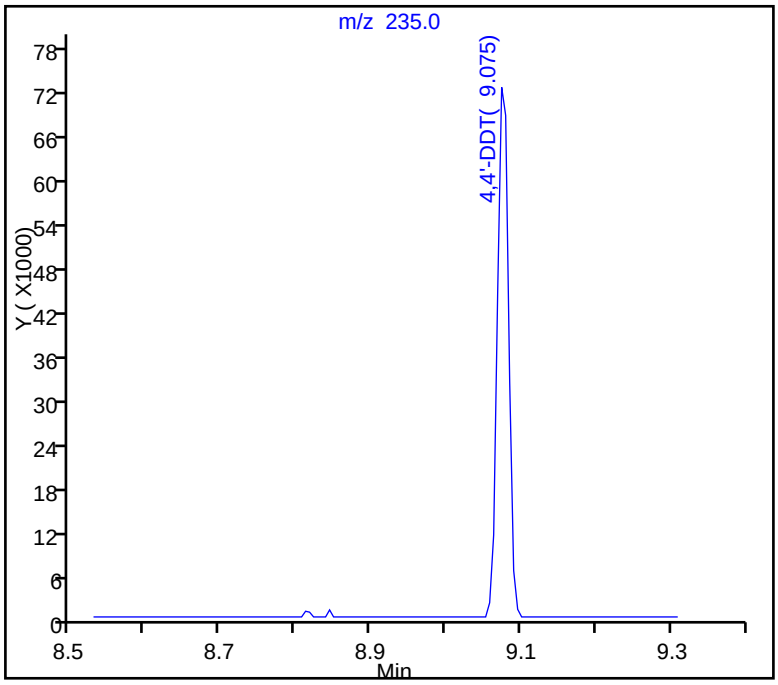
m/z	Y	m/z	Y	m/z	Y	m/z	Y
39.00	1197	105.00	810	179.00	1627	244.00	3918
41.00	395	107.00	6187	180.00	759	245.00	655
43.00	417	108.00	1006	181.00	257	246.00	1032
50.00	3629	109.00	246	183.00	172	252.00	437
51.00	15483	110.00	8197	185.00	779	253.00	205
52.00	634	111.00	1453	186.00	4559	255.00	21760
56.00	371	115.00	182	187.00	1699	256.00	2727
57.00	986	117.00	5141	189.00	222	257.00	177
60.00	173	118.00	234	192.00	668	258.00	1322
63.00	565	122.00	202	193.00	741	265.00	739
67.00	231	123.00	759	196.00	1118	273.00	662
69.00	15217	124.00	257	198.00	33696	274.00	1573
71.00	380	126.00	200	199.00	1928	275.00	8364
73.00	1068	127.00	16253	200.00	368	276.00	1363
74.00	1596	128.00	1355	204.00	1448	277.00	1056
75.00	2765	129.00	7282	205.00	2430	281.00	183
76.00	912	130.00	456	206.00	10114	296.00	2470
77.00	17040	135.00	487	207.00	2019	303.00	179
78.00	1195	141.00	1000	208.00	172	323.00	552
79.00	1216	142.00	208	210.00	181	334.00	563
80.00	1157	147.00	734	211.00	448	352.00	173
81.00	1552	148.00	1429	217.00	2792	353.00	195
82.00	288	153.00	211	218.00	200	365.00	948
83.00	1121	155.00	183	221.00	2245	372.00	372
85.00	467	156.00	782	222.00	365	422.00	178
86.00	188	161.00	199	223.00	529	423.00	1404
91.00	193	165.00	350	224.00	5488	441.00	3777
92.00	372	167.00	1969	225.00	1602	442.00	25648
93.00	2453	168.00	815	227.00	2750	443.00	5085
95.00	177	173.00	346	229.00	442	444.00	395
98.00	1480	174.00	226	231.00	181		
99.00	1350	175.00	884	242.00	197		
101.00	748	177.00	390	243.00	216		

Breakdown Report

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973V\20140505-31759.b\V0079.D
Injection Date: 05-May-2014 08:32:30 Instrument ID: HP5973V
Lims ID: DFTPP
Client ID:
Operator ID: hl ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: V-8270 Limit Group: MB - 8270D ICAL

139 4,4'-DDT, Detector: MS SCAN



SW-846 Method

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

139 4,4'-DDT, Area = 76341
136 4,4'-DDD, Area = 0
130 4,4'-DDE, Area = 0

%Breakdown: 0.00%, Max Limit: 20.00%
Passed

Peak Tailing Report

TestAmerica Buffalo

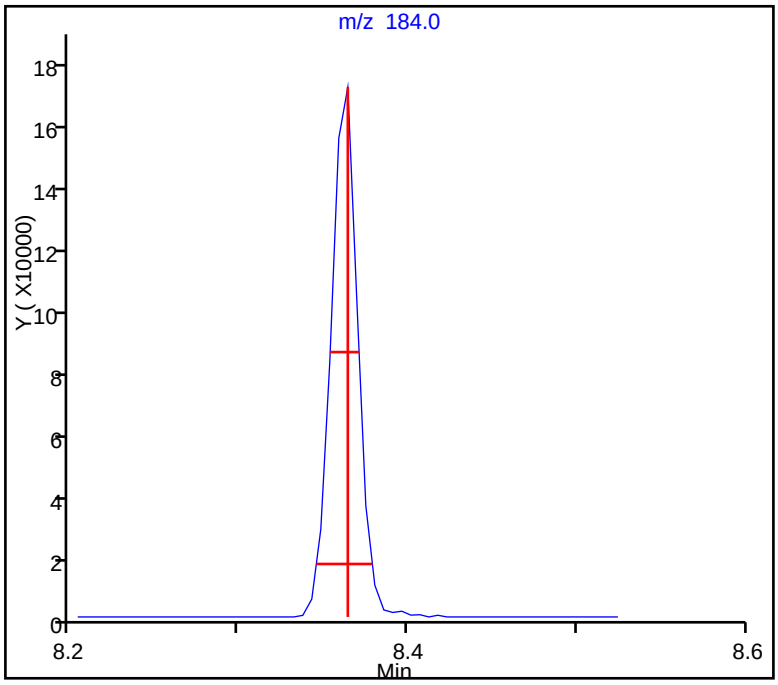
Data File: \\Bufchrom\ChromData\HP5973V\20140505-31759.b\V0079.D
Injection Date: 05-May-2014 08:32:30 Instrument ID: HP5973V
Lims ID: DFTPP
Client ID:
Operator ID: hl ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: V-8270 Limit Group: MB - 8270D ICAL

128 Benzidine_T, Detector: MS SCAN

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

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

Tailing Factor = 0.8, Max. Tailing < 2.00
Passed



Peak Tailing Report

TestAmerica Buffalo

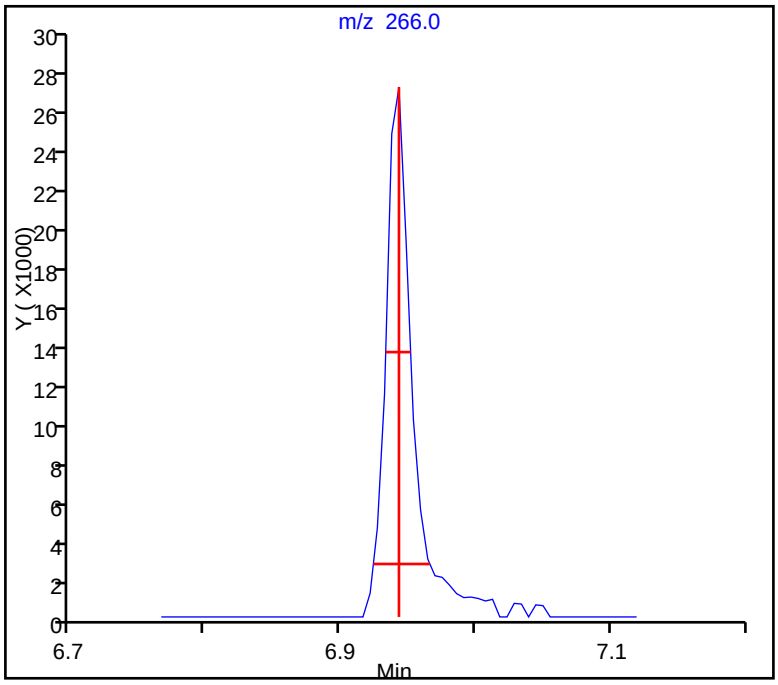
Data File: \\Bufchrom\ChromData\HP5973V\20140505-31759.b\V0079.D
Injection Date: 05-May-2014 08:32:30 Instrument ID: HP5973V
Lims ID: DFTPP
Client ID:
Operator ID: hl ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: V-8270 Limit Group: MB - 8270D ICAL

104 Pentachlorophenol_T, Detector: MS SCAN

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

Back Width = 0.023 (min.)
Front Width = 0.019 (min.)

Tailing Factor = 1.2, Max. Tailing < 2.00
Passed



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973V\20140508-31911.b\V0227.D
Lims ID: DFTPP
Client ID:
Sample Type: DFTPP
Inject. Date: 08-May-2014 15:00:30 ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 480-0031911-002
Operator ID: hl Instrument ID: HP5973V

Method: \\Bufchrom\ChromData\HP5973V\20140508-31911.b\V-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 09-May-2014 08:03:54 Calib Date: 05-May-2014 14:41:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5973V\20140505-31759.b\V0093.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK009

First Level Reviewer: rimmera Date: 09-May-2014 00:23:17

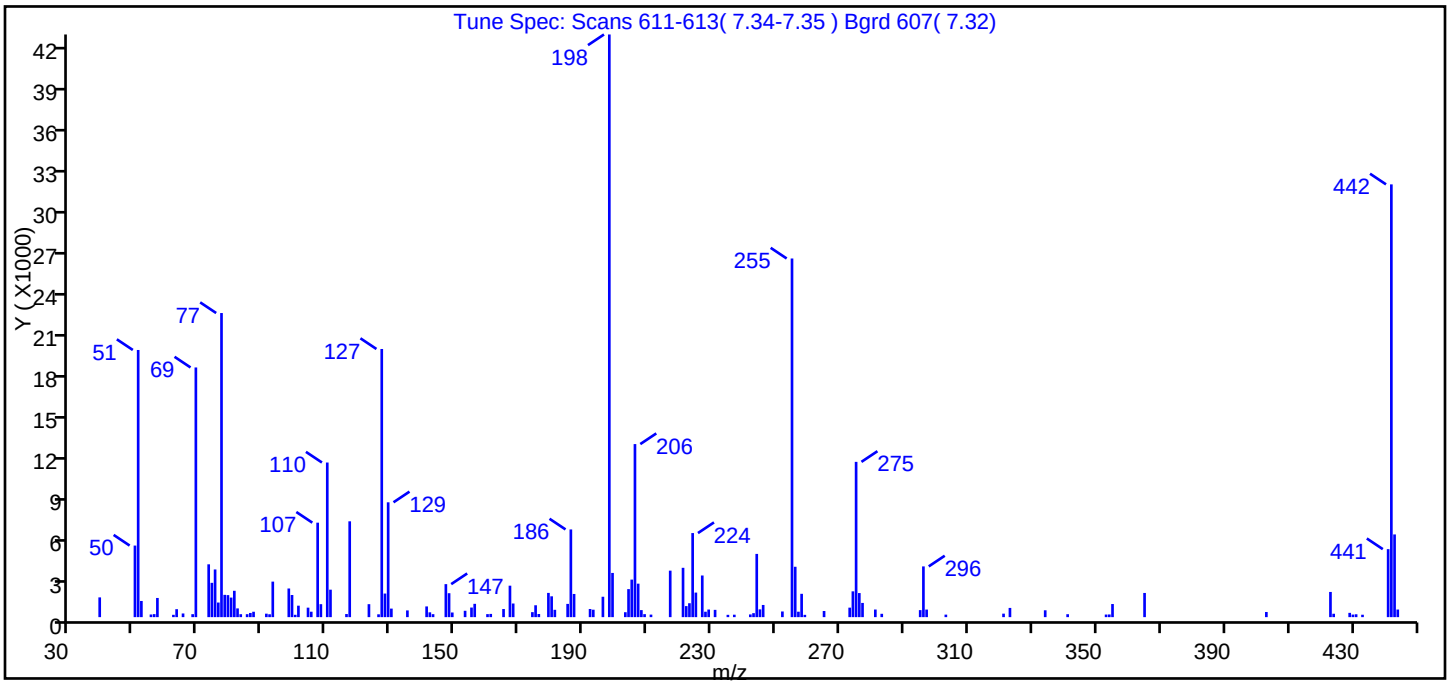
Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
104 Pentachlorophenol_T	266	6.938	6.938	0.000	83	41805	NR	NR	
112 DFTPP									
128 Benzidine_T	184	8.359	8.359	0.000	97	289783	NR	NR	
136 4,4'-DDD	235		8.808						
130 4,4'-DDE	246		9.009						
139 4,4'-DDT	235	9.075	9.075	0.000	91	129265	NR	NR	

MS Tune Report

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973V\20140508-31911.b\V0227.D
Injection Date: 08-May-2014 15:00:30 Instrument ID: HP5973V
Lims ID: DFTPP
Client ID:
Operator ID: hl ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: V-8270 Limit Group: MB - 8270D ICAL
Tune Method: DFTPP Method 8270D, BP 198

112 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	45.90
68	Less than 2.00% of mass 69	0.50 (1.20)
69	Present	42.90
70	Less than 2.00% of mass 69	0.00 (0.00)
127	10.00 - 80.00% of mass 198	46.00
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	26.60
365	Greater than 1.00% of mass 198	4.20
441	Present, but Less than 24.00% of mass 442	11.70 (15.70)
442	Greater than 50.00% of mass 198	74.30
443	15.00 - 24.00% of mass 442	14.20 (19.10)

Data File: \\Bufchrom\ChromData\HP5973V\20140508-31911.b\V0227.D\V-8270.rslt\spectra.d
Injection Date: 08-May-2014 15:00:30
Spectrum: Tune Spec: Scans 611-613(7.34-7.35) Bgrd 607(7.32)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 138

m/z	Y	m/z	Y	m/z	Y	m/z	Y
39.00	1429	107.00	6832	187.00	1676	258.00	1687
50.00	5176	108.00	938	192.00	588	259.00	167
51.00	19320	110.00	11182	193.00	538	265.00	444
52.00	1170	111.00	1986	196.00	1475	273.00	687
55.00	192	116.00	225	198.00	42136	274.00	1866
56.00	218	117.00	6930	199.00	3197	275.00	11229
57.00	1387	123.00	938	203.00	356	276.00	1742
62.00	169	126.00	205	204.00	2027	277.00	1028
63.00	576	127.00	19392	205.00	2715	281.00	551
65.00	266	128.00	1706	206.00	12515	283.00	242
68.00	215	129.00	8305	207.00	2421	295.00	508
69.00	18056	130.00	618	208.00	509	296.00	3669
73.00	3820	135.00	487	209.00	217	297.00	548
74.00	2481	141.00	775	211.00	184	303.00	182
75.00	3448	142.00	348	217.00	3362	321.00	253
76.00	1056	143.00	215	221.00	3568	323.00	667
77.00	21992	147.00	2387	222.00	799	334.00	496
78.00	1612	148.00	1731	223.00	1006	341.00	212
79.00	1593	149.00	336	224.00	6080	353.00	188
80.00	1415	153.00	460	225.00	1776	354.00	194
81.00	1906	155.00	694	227.00	3012	355.00	948
82.00	632	156.00	963	228.00	392	365.00	1749
83.00	213	160.00	218	229.00	551	403.00	373
85.00	214	161.00	234	231.00	527	423.00	1822
86.00	302	165.00	587	235.00	168	424.00	245
87.00	390	167.00	2275	237.00	177	429.00	310
91.00	251	168.00	986	242.00	196	430.00	186
92.00	208	174.00	361	243.00	288	431.00	208
93.00	2569	175.00	859	244.00	4573	433.00	175
98.00	2072	176.00	227	245.00	562	441.00	4917
99.00	1600	179.00	1753	246.00	881	442.00	31296
100.00	170	180.00	1507	252.00	410	443.00	5981
101.00	829	181.00	531	255.00	25936	444.00	550

Report Date: 09-May-2014 08:03:54 Chrom Revision: 2.2 14-Apr-2014 13:40:08
Data File: \\Bufchrom\ChromData\HP5973V\20140508-31911.b\V0227.D\V-8270.rslt\spectra.d
Injection Date: 08-May-2014 15:00:30
Spectrum: Tune Spec: Scans 611-613(7.34-7.35) Bgrd 607(7.32)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 138

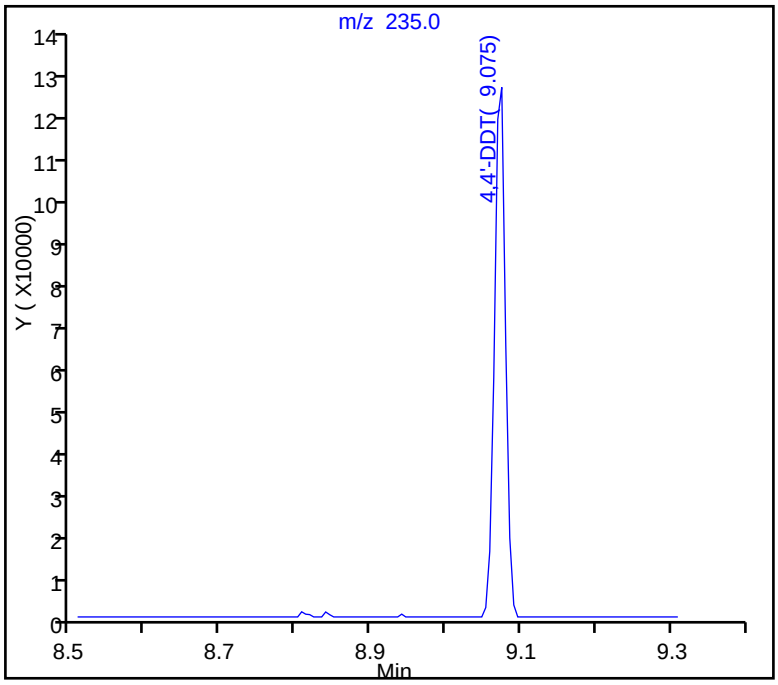
m/z	Y	m/z	Y	m/z	Y	m/z	Y
104.00	686	185.00	958	256.00	3643		
105.00	393	186.00	6343	257.00	393		

Breakdown Report

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973V\20140508-31911.b\V0227.D
Injection Date: 08-May-2014 15:00:30 Instrument ID: HP5973V
Lims ID: DFTPP
Client ID:
Operator ID: hl ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: V-8270 Limit Group: MB - 8270D ICAL

139 4,4'-DDT, Detector: MS SCAN



SW-846 Method

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

139 4,4'-DDT, Area = 129265
136 4,4'-DDD, Area = 0
130 4,4'-DDE, Area = 0

%Breakdown: 0.00%, Max Limit: 20.00%
Passed

Peak Tailing Report

TestAmerica Buffalo

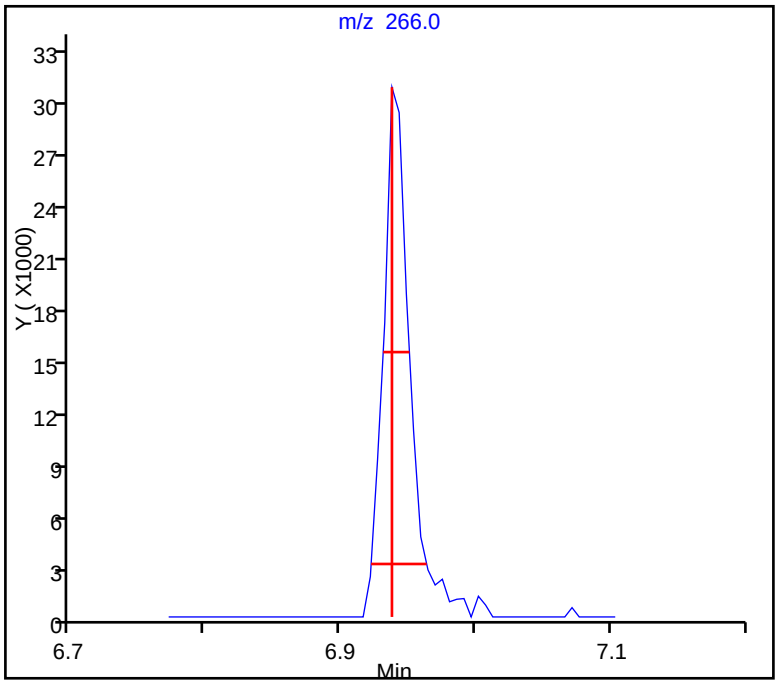
Data File: \\Bufchrom\ChromData\HP5973V\20140508-31911.b\V0227.D
Injection Date: 08-May-2014 15:00:30 Instrument ID: HP5973V
Lims ID: DFTPP
Client ID:
Operator ID: hl ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: V-8270 Limit Group: MB - 8270D ICAL

104 Pentachlorophenol_T, Detector: MS SCAN

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

Back Width = 0.026 (min.)
Front Width = 0.015 (min.)

Tailing Factor = 1.7, Max. Tailing < 2.00
Passed



Peak Tailing Report

TestAmerica Buffalo

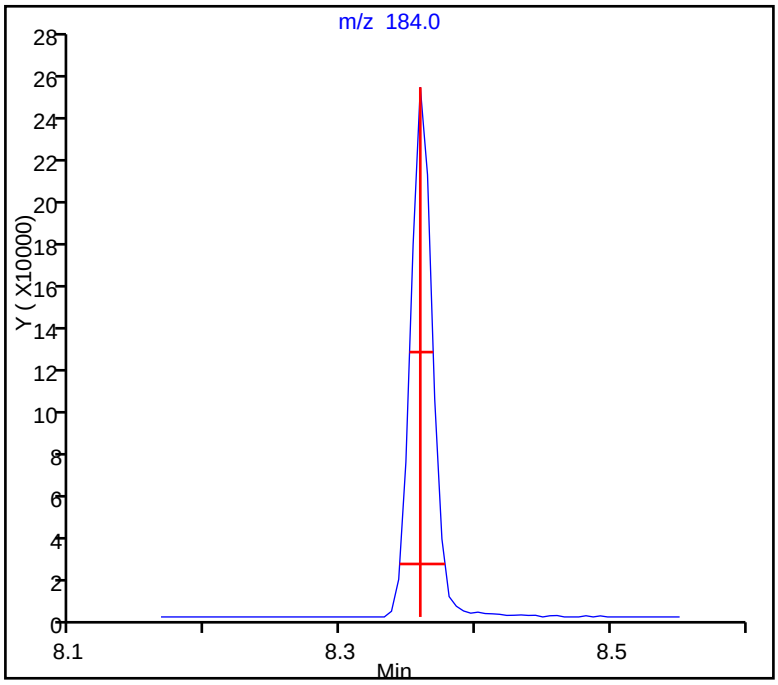
Data File: \\Bufchrom\ChromData\HP5973V\20140508-31911.b\V0227.D
Injection Date: 08-May-2014 15:00:30 Instrument ID: HP5973V
Lims ID: DFTPP
Client ID:
Operator ID: hl ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: V-8270 Limit Group: MB - 8270D ICAL

128 Benzidine_T, Detector: MS SCAN

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

Back Width = 0.018 (min.)
Front Width = 0.015 (min.)

Tailing Factor = 1.2, Max. Tailing < 2.00
Passed



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-58807-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 480-180799/1-A

Matrix: Solid | Lab File ID: V0230.D

Analysis Method: 8270D | Date Collected:

Extract. Method: 3510C | Date Extracted: 05/08/2014 06:29

Sample wt/vol: 1000(mL) | Date Analyzed: 05/08/2014 16:05

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.: 180978 | Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
106-46-7	1,4-Dichlorobenzene	ND		0.0025	0.00012
95-95-4	2,4,5-Trichlorophenol	ND		0.0013	0.00012
88-06-2	2,4,6-Trichlorophenol	ND		0.0013	0.00015
121-14-2	2,4-Dinitrotoluene	ND		0.0013	0.00011
95-48-7	2-Methylphenol	ND		0.0013	0.00010
108-39-4	3-Methylphenol	ND		0.0025	0.00010
106-44-5	4-Methylphenol	ND		0.0025	0.000090
118-74-1	Hexachlorobenzene	ND		0.0013	0.00013
87-68-3	Hexachlorobutadiene	ND		0.0013	0.00017
67-72-1	Hexachloroethane	ND		0.0013	0.00015
98-95-3	Nitrobenzene	ND		0.0013	0.000073
87-86-5	Pentachlorophenol	ND		0.0025	0.00055
110-86-1	Pyridine	ND		0.0063	0.00010

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol	70		52-132
321-60-8	2-Fluorobiphenyl	79		48-120
367-12-4	2-Fluorophenol	52		20-120
4165-60-0	Nitrobenzene-d5	83		46-120
4165-62-2	Phenol-d5	34		16-120
1718-51-0	p-Terphenyl-d14	84		67-150

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973V\20140508-31911.b\V0230.D
Lims ID: MB 480-180799/1-A
Client ID:
Sample Type: MB
Inject. Date: 08-May-2014 16:05:30 ALS Bottle#: 5 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 480-0031911-005
Operator ID: hl Instrument ID: HP5973V

Method: \\Bufchrom\ChromData\HP5973V\20140508-31911.b\V-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 09-May-2014 08:05:23 Calib Date: 05-May-2014 14:41:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5973V\20140505-31759.b\V0093.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK009

First Level Reviewer: rimmera Date: 09-May-2014 01:18:50

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	6.077	6.077	0.000	95	65205	40.0	40.0	
* 2 Naphthalene-d8	136	7.568	7.573	-0.005	99	221356	40.0	40.0	
* 3 Acenaphthene-d10	164	9.635	9.635	0.000	92	143927	40.0	40.0	
* 4 Phenanthrene-d10	188	11.232	11.233	-0.001	96	264327	40.0	40.0	
* 5 Chrysene-d12	240	13.631	13.637	-0.006	96	302695	40.0	40.0	
* 6 Perylene-d12	264	14.892	14.892	0.000	98	288717	40.0	40.0	
$ 7 2-Fluorophenol	112	4.549	4.549	0.000	89	52527	50.0	25.9	
$ 8 Phenol-d5	99	5.676	5.677	0.000	0	47820	50.0	17.1	
$ 9 Nitrobenzene-d5	82	6.724	6.729	-0.005	88	117141	50.0	41.6	
$ 10 2-Fluorobiphenyl	172	8.844	8.850	-0.006	100	210494	50.0	39.6	
$ 11 2,4,6-Tribromophenol	330	10.522	10.527	-0.005	86	33955	50.0	35.1	
$ 12 p-Terphenyl-d14	244	12.712	12.718	-0.006	98	295543	50.0	42.2	
$ 262 2-Fluorobiphenyl (Surr)	172		0.000						
68 1,4-Dioxane	88		2.599						
69 N-Nitrosodimethylamine	42		2.920						
70 Pyridine	52		2.973						
71 Dimethylformamide	73		3.165						
72 2-Picoline	93		3.512						
73 N-Nitrosomethylethylamine	88		3.619						
74 Methyl methanesulfonate	80		4.014						
75 4-Chloropyridine	78		4.512						
77 N-Nitrosodiethylamine	102		4.559						
76 3-Chloropyridine	78		4.592						
79 2-Chloropyridine	78		5.084						
78 Ethyl methanesulfonate	79		5.126						
80 Benzaldehyde	77		5.564						
81 Phenol	94		5.693						
82 Aniline	93		5.693						
85 Pentachloroethane	167		5.719						
267 CBF-400	214		5.730						
83 Bis(2-chloroethyl)ether	93		5.773						
86 p-Fluoroaniline	111		5.800						

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
84 2-Chlorophenol	128		5.842						
87 1,3-Dichlorobenzene	146		6.013						
88 1,4-Dichlorobenzene	146		6.099						
90 Benzyl alcohol	108		6.248						
91 1,2-Dichlorobenzene	146		6.275						
92 2-Methylphenol	108		6.398						
93 2,2'-oxybis[1-chloropropan	45		6.403						
13 N-Methylaniline	106		6.419						
97 N-Nitrosopyrrolidine	100		6.489						
98 N-Nitrosomorpholine	56		6.537						
94 Acetophenone	105		6.558						
95 N-Nitrosodi-n-propylamine	70		6.563						
100 2-Toluidine	106		6.564						
101 4-Methylbenzenamine	106		6.564						
96 4-Methylphenol	108		6.585						
99 Hexachloroethane	117		6.665						
103 2,6-Dichloropyridine	112		6.702						
102 Nitrobenzene	77		6.750						
105 N-Nitrosopiperidine	114		6.895						
106 Isophorone	82		7.039						
109 2-Chloroaniline	127		7.055						
107 2-Nitrophenol	139		7.130						
108 2,4-Dimethylphenol	107		7.204						
113 o,o',o''-Triethylphosphoro	198		7.253						
111 Bis(2-chloroethoxy)methane	93		7.301						
114 2,4-Dichlorophenol	162		7.423						
116 alpha,alpha-Dimethyl phene	58		7.439						
115 Benzoic acid	105		7.466						
117 1,2,4-Trichlorobenzene	180		7.509						
120 Alpha-Terpineol	59		7.595						
118 Naphthalene	128		7.600						
122 2,6-Dichlorophenol	162		7.648						
119 4-Chloroaniline	127		7.669						
123 Hexachloropropene	213		7.680						
110 Tetraethyl lead	237		7.688						
121 Hexachlorobutadiene	225		7.749						
230 Benzeneacetic acid (TIC)	91		7.846						
266 NVF-400	82		7.984						
269 CN-500	112	13.631	8.000	5.631	0	1319		0.3666	
270 CBF-500	161		8.000						
268 CAG-800	149		8.000						
271 CU-600	58		8.000						
35 n,n'-Dimethylacetamide	44		8.000						
127 N-Nitrosodi-n-butylamine	84		8.049						
126 p-Phenylene diamine	108		8.121						
124 Caprolactam	113		8.139						
36 Benzeneacetonitrile	117		8.225						
129 4-Chloro-3-methylphenol	107		8.267						
131 2-Methylnaphthalene	142		8.412						
125 Quinoline	129		8.495						
132 Safrole, Total	162		8.566						
134 Hexachlorocyclopentadiene	237		8.599						

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
135 1,2,4,5-Tetrachlorobenzene	216		8.609						
133 Phthalic anhydride	104		8.678						
137 2,4,6-Trichlorophenol	196		8.759						
138 2,4,5-Trichlorophenol	196		8.812						
140 1,1'-Biphenyl	154		8.962						
141 2-Chloronaphthalene	162		8.983						
143 2-Nitroaniline	65		9.117						
142 Isosafrole	162		9.169						
144 Dicyclohexylamine	138		9.229						
147 1,4-Dinitrobenzene	168		9.325						
146 Dimethyl phthalate	163		9.347						
148 1,3-Dinitrobenzene	168		9.379						
149 2,6-Dinitrotoluene	165		9.411						
145 1,4-Naphthoquinone	158		9.447						
150 Acenaphthylene	152		9.470						
151 3-Nitroaniline	138		9.608						
152 Acenaphthene	153		9.673						
153 2,4-Dinitrophenol	184		9.742						
154 4-Nitrophenol	109		9.865						
155 Dibenzofuran	168		9.876						
156 2,4-Dinitrotoluene	165		9.886						
158 2,3,4,6-Tetrachlorophenol	232		10.030						
44 1-Methylcyclopentanol	71		10.089						
157 Pentachlorobenzene	250		10.158						
161 Diethyl phthalate	149		10.159						
162 Fluorene	166		10.260						
163 4-Chlorophenyl phenyl ethe	204		10.265						
159 1-Naphthylamine	143		10.280						
164 4-Nitroaniline	138		10.314						
165 4,6-Dinitro-2-methylphenol	198		10.340						
169 Diphenylamine	169		10.367						
160 2-Naphthylamine	143		10.377						
168 N-Nitrosodiphenylamine	169		10.394						
170 1,2-Diphenylhydrazine	77		10.436						
171 Azobenzene	77		10.436						
166 Thionazin	97		10.574						
167 N-Nitro-o-toluidine	152		10.617						
176 Diallate	43		10.682						
172 Tributyl phosphate	99		10.740						
175 4-Bromophenyl phenyl ether	248		10.784						
174 1,3,5-Trinitrobenzene	213		10.836						
179 Hexachlorobenzene	284		10.848						
173 Sulfotepp	322		10.943						
180 Atrazine	200		10.976						
183 Pentachlorophenol	266		11.061						
177 Phorate	75		11.082						
178 Phenacetin	108		11.103						
188 Phenanthrene	178		11.259						
181 Dimethoate	87		11.263						
189 Anthracene	178		11.313						
184 Simazine	201		11.355						
185 4-Aminobiphenyl	169		11.434						

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
186 Pentachloronitrobenzene	237		11.461						
192 Carbazole	167		11.478						
187 Pronamide	173		11.515						
190 Disulfoton	88		11.637						
191 Dinoseb	211		11.643						
195 Di-n-butyl phthalate	149		11.809						
193 Methyl parathion	109		12.017						
194 Alachlor	160		12.027						
201 Fluoranthene	202		12.376						
196 Ethyl Parathion	97		12.396						
197 4-Nitroquinoline-1-oxide	190		12.423						
198 Anthraquinone	180		12.471						
202 Benzidine	184		12.504						
199 Methapyrilene	58		12.535						
204 Pyrene	202		12.579						
200 Isodrin	193		12.706						
203 1-Hydroxyanthraquinone	224		13.007						
210 Butyl benzyl phthalate	149		13.134						
209 3,3'-Dimethylbenzidine	212		13.156						
207 1,4-Dihydroxyanthraquinone	240		13.193						
205 Aramite, Total	185		13.233						
206 p-Dimethylamino azobenzene	120		13.293						
208 Chlorobenzilate	139		13.336						
211 Famphur	218		13.555						
215 3,3'-Dichlorobenzidine	252		13.599						
212 9-Octadecenamide	72		13.614						
216 Bis(2-ethylhexyl) phthalat	149		13.626						
217 Benzo[a]anthracene	228		13.626						
213 Kepone	272		13.651						
218 Chrysene	228		13.663						
214 2-Acetylaminofluorene	181		13.822						
220 Di-n-octyl phthalate	149		14.165						
219 Tricresyl phosphate	91		14.539						
221 Benzo[b]fluoranthene	252		14.550						
222 Benzo[k]fluoranthene	252		14.571						
225 Benzo[a]pyrene	252		14.849						
223 7,12-Dimethylbenz(a)anthra	256		15.062						
224 Hexachlorophene	196		15.227						
226 3-Methylcholanthrene	252		15.756						
227 Indeno[1,2,3-cd]pyrene	276		16.003						
228 Dibenz(a,h)anthracene	278		16.003						
229 Benzo[g,h,i]perylene	276		16.318						
231 Dibenzo[a,e]pyrene	302		19.327						
22 Phenylacetic Acid	1		0.000						
64 Tris(2,3-dibromopropyl)pho	1		0.000						
260 2,4-Dichlorotoluene TIC	1		0.000						
20 Triethyl amine	1		0.000						
41 5-Methyl-o-Anisidine	1		0.000						
67 1-Bromopropane	1		0.000						
62 Dibenz[a,j]acridine	279		0.000						
258 4-Chlorobenzotrifluoride T	1		0.000						
250 n,n'-Dimethylaniline	1		0.000						

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
18 4,4'-Methylene bis(2-chlor	1		0.000						
253 1-Chloronaphthalene	162		0.000						
27 2,3,7,8-TCDD	1		0.000						
45 2-Aminopyridine	1		0.000						
37 4-Chlorophenol	1		0.000						
34 3-Chlorotoluene	1		0.000						
19 4,4'-Methylene bis(2-chlor	1		0.000						
56 7H-Dibenzo[c,g]carbazole	1		0.000						
31 Pendimethalin	1		0.000						
16 Dibenzo[a,h]pyrene	1		0.000						
25 5-Ethyl-5-phenyl barbituri	1		0.000						
257 2,6-Dichlorotoluene TIC	1		0.000						
263 n-Decane	57		0.000						
256 Hexadecane	57		0.000						
251 1-Methylnaphthalene	142		0.000						
24 o-Anisidine TIC	1		0.000						
49 Chlorobenzotrifluoride N.O	1		0.000						
15 Lidocaine	1		0.000						
39 4-Chlorotoluene	91		0.000						
261 3-Chlorobenzotrifluoride T	1		0.000						
17 2,4-Dichlorotoluene	1		0.000						
59 o-Anisidine	1		0.000						
52 Chlorotoluene N.O.S	1		0.000						
265 n-Octadecane	57		0.000						
248 Indene	115		0.000						
246 Phenylmercaptan	110		0.000						
249 Acrylamide	1		0.000						
61 4-Chlorobenzotrifluoride	1		0.000						
29 2,3-Dichlorophenol	1		0.000						
38 Tetramethyl lead TIC	1		0.000						
57 2,4-Toluene diamine	1		0.000						
30 3-Chlorobenzotrifluoride	1		0.000						
247 Octachlorostyrene	1		0.000						
264 2,3,5,6-Tetrachlorophenol	232		0.000						
55 5-Methyl-o-Anisidine TIC	1		0.000						
255 Dibenz(a,i)pyrene	1		0.000						
254 6-Methylchrysene	242		0.000						
42 2-Chlorobenzotrifluoride	1		0.000						
65 Hexamethyldisiloxane TIC	1		0.000						
21 2,6-Dichlorotoluene	1		0.000						
54 Dibenz[a,h]acridine	279		0.000						
259 2-Chlorobenzotrifluoride T	1		0.000						
14 2,4-Xylidine TIC	1		0.000						
28 alpha,alpha-Dimethyl phene	1		0.000						
32 Benzo[j]fluoranthene	1		0.000						
58 1,3,5-Trichlorobenzene	180		0.000						
33 2-Chlorotoluene	91		0.000						
23 1,3-phenylenediamine TIC	1		0.000						
104 Pentachlorophenol_T	266		6.938						
128 Benzidine_T	184		8.359						
S 234 3 & 4 Methylphenol	108		6.497						
S 233 3-Methylphenol	1		6.497						

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
S 232 Total Cresols	1		0.000						
S 245 EPH Adjustment 1	1		0.000						
T 238 1-Methylnaphthalene (TIC)	142		8.496						
T 239 trans Azobenzene (TIC)	1		10.691						
T 235 Benefin (TIC)	1		0.000						
T 236 Prometryn (TIC)	1		0.000						
T 237 Pendimethalin (TIC)	252		0.000						

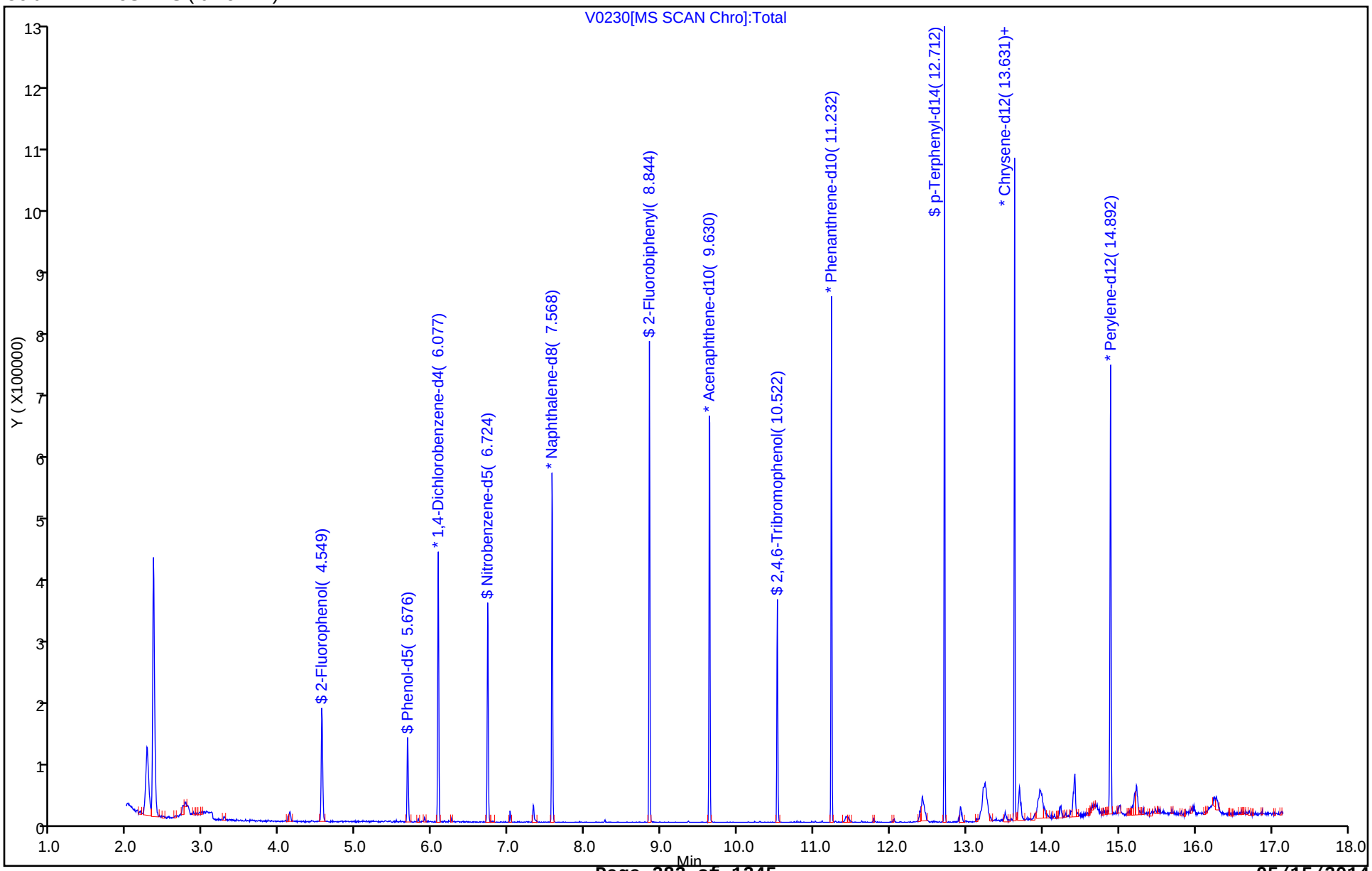
Report Date: 09-May-2014 08:06:39 Chrom Revision: 2.2 14-Apr-2014 13:40:08

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973V\20140508-31911.b\V0230.D

Injection Date:	08-May-2014 16:05:30	Instrument ID:	HP5973V	Operator ID:	hl
Lims ID:	MB 480-180799/1-A			Worklist Smp#:	5
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	V-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.: 480-58807-1

SDG No.:

Client Sample ID: | Lab Sample ID: LB 480-180381/1-D

Matrix: Solid (TCLP) | Lab File ID: V0234.D

Analysis Method: 8270D | Date Collected:

Extract. Method: 3510C | Date Extracted: 05/08/2014 06:29

Sample wt/vol: 250(mL) | Date Analyzed: 05/08/2014 17:43

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.: 180978 | Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
106-46-7	1,4-Dichlorobenzene	ND		0.010	0.00046
95-95-4	2,4,5-Trichlorophenol	ND		0.0050	0.00048
88-06-2	2,4,6-Trichlorophenol	ND		0.0050	0.00061
121-14-2	2,4-Dinitrotoluene	ND		0.0050	0.00045
95-48-7	2-Methylphenol	ND		0.0050	0.00040
108-39-4	3-Methylphenol	ND		0.010	0.00040
106-44-5	4-Methylphenol	ND		0.010	0.00036
118-74-1	Hexachlorobenzene	ND		0.0050	0.00051
87-68-3	Hexachlorobutadiene	ND		0.0050	0.00068
67-72-1	Hexachloroethane	ND		0.0050	0.00059
98-95-3	Nitrobenzene	ND		0.0050	0.00029
87-86-5	Pentachlorophenol	ND		0.010	0.0022
110-86-1	Pyridine	ND		0.025	0.00041

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol	80		52-132
321-60-8	2-Fluorobiphenyl	71		48-120
367-12-4	2-Fluorophenol	38		20-120
4165-60-0	Nitrobenzene-d5	71		46-120
4165-62-2	Phenol-d5	26		16-120
1718-51-0	p-Terphenyl-d14	89		67-150

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973V\20140508-31911.b\V0234.D
Lims ID: LB 480-180381/1-D
Client ID:
Sample Type: LB
Inject. Date: 08-May-2014 17:43:30 ALS Bottle#: 9 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 480-0031911-009
Operator ID: hl Instrument ID: HP5973V

Method: \\Bufchrom\ChromData\HP5973V\20140508-31911.b\V-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 09-May-2014 08:05:23 Calib Date: 05-May-2014 14:41:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5973V\20140505-31759.b\V0093.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK009

First Level Reviewer: rimmera Date: 09-May-2014 01:25:48

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	6.077	6.077	0.000	95	77031	40.0	40.0	
* 2 Naphthalene-d8	136	7.568	7.573	-0.005	99	250028	40.0	40.0	
* 3 Acenaphthene-d10	164	9.635	9.635	0.000	92	162031	40.0	40.0	
* 4 Phenanthrene-d10	188	11.233	11.233	0.000	96	300812	40.0	40.0	
* 5 Chrysene-d12	240	13.631	13.637	-0.006	96	323852	40.0	40.0	
* 6 Perylene-d12	264	14.892	14.892	0.000	99	314749	40.0	40.0	
$ 7 2-Fluorophenol	112	4.549	4.549	0.000	88	44883	50.0	18.8	
$ 8 Phenol-d5	99	5.677	5.677	0.001	0	43422	50.0	13.2	
$ 9 Nitrobenzene-d5	82	6.724	6.729	-0.005	87	113193	50.0	35.6	
$ 10 2-Fluorobiphenyl	172	8.845	8.850	-0.005	100	212593	50.0	35.5	
$ 11 2,4,6-Tribromophenol	330	10.522	10.527	-0.005	89	44125	50.0	40.0	
$ 12 p-Terphenyl-d14	244	12.712	12.718	-0.006	98	333521	50.0	44.5	
$ 262 2-Fluorobiphenyl (Surr)	172		0.000						
68 1,4-Dioxane	88		2.599						
69 N-Nitrosodimethylamine	42		2.920						
70 Pyridine	52		2.973						
71 Dimethylformamide	73		3.165						
72 2-Picoline	93		3.512						
73 N-Nitrosomethylethylamine	88		3.619						
74 Methyl methanesulfonate	80		4.014						
75 4-Chloropyridine	78		4.512						
77 N-Nitrosodiethylamine	102		4.559						
76 3-Chloropyridine	78		4.592						
79 2-Chloropyridine	78		5.084						
78 Ethyl methanesulfonate	79		5.126						
80 Benzaldehyde	77		5.564						
81 Phenol	94		5.693						
82 Aniline	93		5.693						
85 Pentachloroethane	167		5.719						
267 CBF-400	214		5.730						
83 Bis(2-chloroethyl)ether	93		5.773						
86 p-Fluoroaniline	111		5.800						

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
84 2-Chlorophenol	128		5.842						
87 1,3-Dichlorobenzene	146		6.013						
88 1,4-Dichlorobenzene	146		6.099						
90 Benzyl alcohol	108	6.248	6.248	0.000	1	639		0.3516	
91 1,2-Dichlorobenzene	146		6.275						
92 2-Methylphenol	108		6.398						
93 2,2'-oxybis[1-chloropropan	45		6.403						
13 N-Methylaniline	106		6.419						
97 N-Nitrosopyrrolidine	100		6.489						
98 N-Nitrosomorpholine	56		6.537						
94 Acetophenone	105		6.558						
95 N-Nitrosodi-n-propylamine	70		6.563						
100 2-Toluidine	106		6.564						
101 4-Methylbenzenamine	106		6.564						
96 4-Methylphenol	108		6.585						
99 Hexachloroethane	117		6.665						
103 2,6-Dichloropyridine	112		6.702						
102 Nitrobenzene	77		6.750						
105 N-Nitrosopiperidine	114		6.895						
106 Isophorone	82		7.039						
109 2-Chloroaniline	127		7.055						
107 2-Nitrophenol	139		7.130						
108 2,4-Dimethylphenol	107		7.204						
113 o,o',o''-Triethylphosphoro	198		7.253						
111 Bis(2-chloroethoxy)methane	93		7.301						
114 2,4-Dichlorophenol	162		7.423						
116 alpha,alpha-Dimethyl phene	58		7.439						
115 Benzoic acid	105		7.466						
117 1,2,4-Trichlorobenzene	180		7.509						
120 Alpha-Terpineol	59		7.595						
118 Naphthalene	128		7.600						
122 2,6-Dichlorophenol	162		7.648						
119 4-Chloroaniline	127		7.669						
123 Hexachloropropene	213		7.680						
110 Tetraethyl lead	237		7.688						
121 Hexachlorobutadiene	225		7.749						
230 Benzeneacetic acid (TIC)	91		7.846						
266 NVF-400	82		7.984						
269 CN-500	112	14.892	8.000	6.892	0	1392		0.3436	
270 CBF-500	161		8.000						
268 CAG-800	149		8.000						
271 CU-600	58		8.000						
35 n,n'-Dimethylacetamide	44		8.000						
127 N-Nitrosodi-n-butylamine	84		8.049						
126 p-Phenylene diamine	108		8.121						
124 Caprolactam	113		8.139						
36 Benzeneacetonitrile	117		8.225						
129 4-Chloro-3-methylphenol	107		8.267						
131 2-Methylnaphthalene	142		8.412						
125 Quinoline	129		8.495						
132 Safrole, Total	162		8.566						
134 Hexachlorocyclopentadiene	237		8.599						

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
135 1,2,4,5-Tetrachlorobenzene	216		8.609						
133 Phthalic anhydride	104		8.678						
137 2,4,6-Trichlorophenol	196		8.759						
138 2,4,5-Trichlorophenol	196		8.812						
140 1,1'-Biphenyl	154		8.962						
141 2-Chloronaphthalene	162		8.983						
143 2-Nitroaniline	65		9.117						
142 Isosafrole	162		9.169						
144 Dicyclohexylamine	138		9.229						
147 1,4-Dinitrobenzene	168		9.325						
146 Dimethyl phthalate	163		9.347						
148 1,3-Dinitrobenzene	168		9.379						
149 2,6-Dinitrotoluene	165		9.411						
145 1,4-Naphthoquinone	158		9.447						
150 Acenaphthylene	152		9.470						
151 3-Nitroaniline	138		9.608						
152 Acenaphthene	153		9.673						
153 2,4-Dinitrophenol	184		9.742						
154 4-Nitrophenol	109		9.865						
155 Dibenzofuran	168		9.876						
156 2,4-Dinitrotoluene	165		9.886						
158 2,3,4,6-Tetrachlorophenol	232		10.030						
44 1-Methylcyclopentanol	71		10.089						
157 Pentachlorobenzene	250		10.158						
161 Diethyl phthalate	149		10.159						
162 Fluorene	166		10.260						
163 4-Chlorophenyl phenyl ethe	204		10.265						
159 1-Naphthylamine	143		10.280						
164 4-Nitroaniline	138		10.314						
165 4,6-Dinitro-2-methylphenol	198		10.340						
169 Diphenylamine	169		10.367						
160 2-Naphthylamine	143		10.377						
168 N-Nitrosodiphenylamine	169		10.394						
170 1,2-Diphenylhydrazine	77		10.436						
171 Azobenzene	77		10.436						
166 Thionazin	97		10.574						
167 N-Nitro-o-toluidine	152		10.617						
176 Diallate	43		10.682						
172 Tributyl phosphate	99		10.740						
175 4-Bromophenyl phenyl ether	248		10.784						
174 1,3,5-Trinitrobenzene	213		10.836						
179 Hexachlorobenzene	284		10.848						
173 Sulfotepp	322		10.943						
180 Atrazine	200		10.976						
183 Pentachlorophenol	266		11.061						
177 Phorate	75		11.082						
178 Phenacetin	108		11.103						
188 Phenanthrene	178		11.259						
181 Dimethoate	87		11.263						
189 Anthracene	178		11.313						
184 Simazine	201		11.355						
185 4-Aminobiphenyl	169		11.434						

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
186 Pentachloronitrobenzene	237		11.461						
192 Carbazole	167		11.478						
187 Pronamide	173		11.515						
190 Disulfoton	88		11.637						
191 Dinoseb	211		11.643						
195 Di-n-butyl phthalate	149		11.809						
193 Methyl parathion	109		12.017						
194 Alachlor	160		12.027						
201 Fluoranthene	202		12.376						
196 Ethyl Parathion	97		12.396						
197 4-Nitroquinoline-1-oxide	190		12.423						
198 Anthraquinone	180		12.471						
202 Benzidine	184		12.504						
199 Methapyrilene	58		12.535						
204 Pyrene	202		12.579						
200 Isodrin	193		12.706						
203 1-Hydroxyanthraquinone	224		13.007						
210 Butyl benzyl phthalate	149		13.134						
209 3,3'-Dimethylbenzidine	212		13.156						
207 1,4-Dihydroxyanthraquinone	240		13.193						
205 Aramite, Total	185		13.233						
206 p-Dimethylamino azobenzene	120		13.293						
208 Chlorobenzilate	139		13.336						
211 Famphur	218		13.555						
215 3,3'-Dichlorobenzidine	252		13.599						
212 9-Octadecenamide	72		13.614						
216 Bis(2-ethylhexyl) phthalat	149		13.626						
217 Benzo[a]anthracene	228		13.626						
213 Kepone	272		13.651						
218 Chrysene	228		13.663						
214 2-Acetylaminofluorene	181		13.822						
220 Di-n-octyl phthalate	149		14.165						
219 Tricresyl phosphate	91		14.539						
221 Benzo[b]fluoranthene	252		14.550						
222 Benzo[k]fluoranthene	252		14.571						
225 Benzo[a]pyrene	252		14.849						
223 7,12-Dimethylbenz(a)anthra	256		15.062						
224 Hexachlorophene	196		15.227						
226 3-Methylcholanthrene	252		15.756						
227 Indeno[1,2,3-cd]pyrene	276		16.003						
228 Dibenz(a,h)anthracene	278		16.003						
229 Benzo[g,h,i]perylene	276		16.318						
231 Dibenzo[a,e]pyrene	302		19.327						
22 Phenylacetic Acid	1		0.000						
64 Tris(2,3-dibromopropyl)pho	1		0.000						
260 2,4-Dichlorotoluene TIC	1		0.000						
20 Triethyl amine	1		0.000						
41 5-Methyl-o-Anisidine	1		0.000						
67 1-Bromopropane	1		0.000						
62 Dibenz[a,j]acridine	279		0.000						
258 4-Chlorobenzotrifluoride T	1		0.000						
250 n,n'-Dimethylaniline	1		0.000						

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
18 4,4'-Methylene bis(2-chlor	1		0.000						
253 1-Chloronaphthalene	162		0.000						
27 2,3,7,8-TCDD	1		0.000						
45 2-Aminopyridine	1		0.000						
37 4-Chlorophenol	1		0.000						
34 3-Chlorotoluene	1		0.000						
19 4,4'-Methylene bis(2-chlor	1		0.000						
56 7H-Dibenzo[c,g]carbazole	1		0.000						
31 Pendimethalin	1		0.000						
16 Dibenzo[a,h]pyrene	1		0.000						
25 5-Ethyl-5-phenyl barbituri	1		0.000						
257 2,6-Dichlorotoluene TIC	1		0.000						
263 n-Decane	57		0.000						
256 Hexadecane	57		0.000						
251 1-Methylnaphthalene	142		0.000						
24 o-Anisidine TIC	1		0.000						
49 Chlorobenzotrifluoride N.O	1		0.000						
15 Lidocaine	1		0.000						
39 4-Chlorotoluene	91		0.000						
261 3-Chlorobenzotrifluoride T	1		0.000						
17 2,4-Dichlorotoluene	1		0.000						
59 o-Anisidine	1		0.000						
52 Chlorotoluene N.O.S	1		0.000						
265 n-Octadecane	57		0.000						
248 Indene	115		0.000						
246 Phenylmercaptan	110		0.000						
249 Acrylamide	1		0.000						
61 4-Chlorobenzotrifluoride	1		0.000						
29 2,3-Dichlorophenol	1		0.000						
38 Tetramethyl lead TIC	1		0.000						
57 2,4-Toluene diamine	1		0.000						
30 3-Chlorobenzotrifluoride	1		0.000						
247 Octachlorostyrene	1		0.000						
264 2,3,5,6-Tetrachlorophenol	232		0.000						
55 5-Methyl-o-Anisidine TIC	1		0.000						
255 Dibenz(a,i)pyrene	1		0.000						
254 6-Methylchrysene	242		0.000						
42 2-Chlorobenzotrifluoride	1		0.000						
65 Hexamethyldisiloxane TIC	1		0.000						
21 2,6-Dichlorotoluene	1		0.000						
54 Dibenz[a,h]acridine	279		0.000						
259 2-Chlorobenzotrifluoride T	1		0.000						
14 2,4-Xylidine TIC	1		0.000						
28 alpha,alpha-Dimethyl phene	1		0.000						
32 Benzo[j]fluoranthene	1		0.000						
58 1,3,5-Trichlorobenzene	180		0.000						
33 2-Chlorotoluene	91		0.000						
23 1,3-phenylenediamine TIC	1		0.000						
104 Pentachlorophenol_T	266		6.938						
128 Benzidine_T	184		8.359						
S 234 3 & 4 Methylphenol	108		6.497						
S 233 3-Methylphenol	1		6.497						

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
S 232 Total Cresols	1		0.000						
S 245 EPH Adjustment 1	1		0.000						
T 238 1-Methylnaphthalene (TIC)	142		8.496						
T 239 trans Azobenzene (TIC)	1		10.691						
T 235 Benefin (TIC)	1		0.000						
T 236 Prometryn (TIC)	1		0.000						
T 237 Pendimethalin (TIC)	252		0.000						

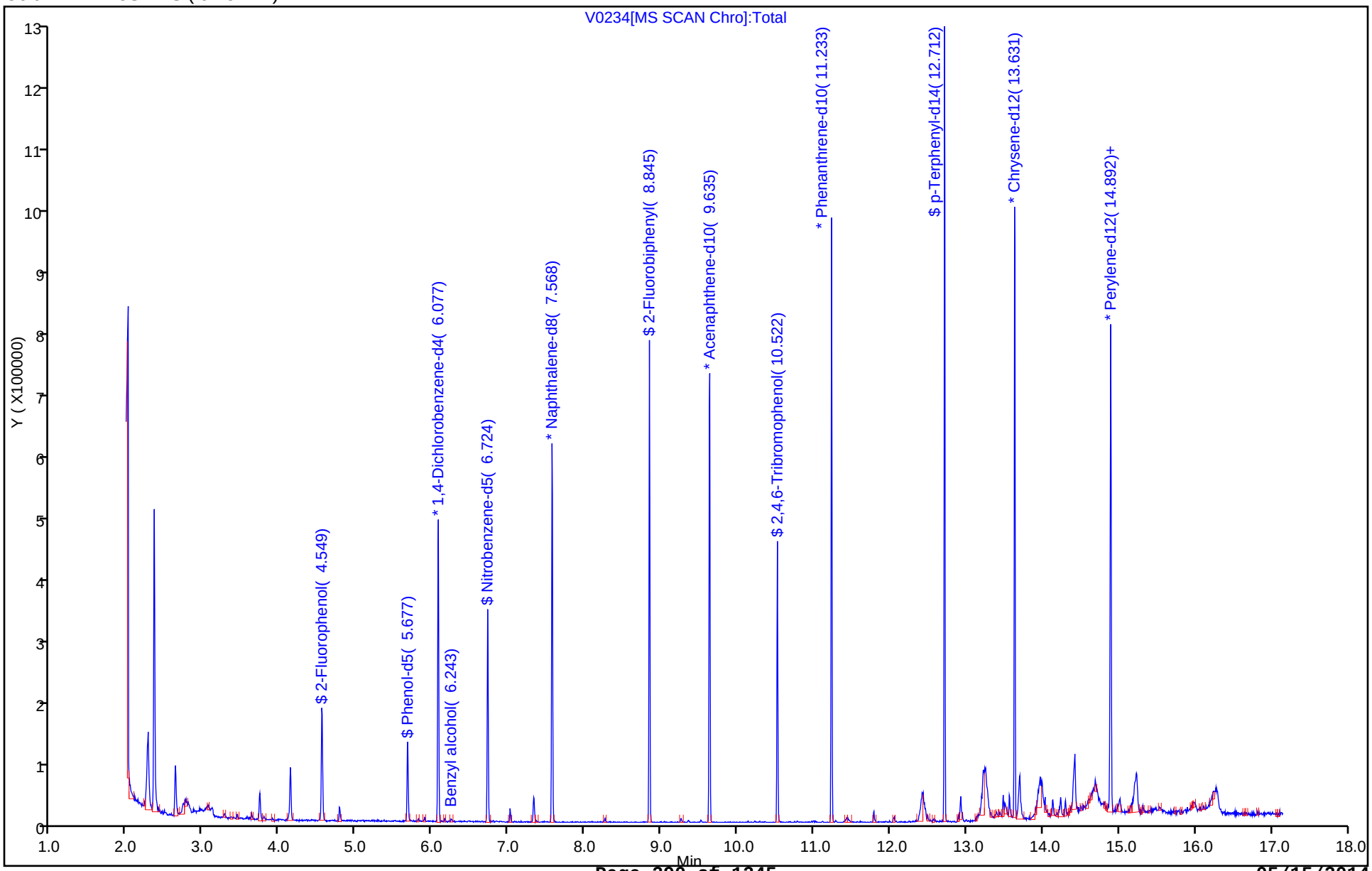
Report Date: 09-May-2014 08:05:53 Chrom Revision: 2.2 14-Apr-2014 13:40:08

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973V\20140508-31911.b\V0234.D

Injection Date:	08-May-2014 17:43:30	Instrument ID:	HP5973V	Operator ID:	hl
Lims ID:	LB 480-180381/1-D			Worklist Smp#:	9
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	V-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.: 480-58807-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 480-180799/2-A

Matrix: Solid | Lab File ID: V0231.D

Analysis Method: 8270D | Date Collected:

Extract. Method: 3510C | Date Extracted: 05/08/2014 06:29

Sample wt/vol: 1000(mL) | Date Analyzed: 05/08/2014 16:30

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.: 180978 | Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
106-46-7	1,4-Dichlorobenzene	0.0317		0.0025	0.00012
95-95-4	2,4,5-Trichlorophenol	0.0482		0.0013	0.00012
88-06-2	2,4,6-Trichlorophenol	0.0483		0.0013	0.00015
121-14-2	2,4-Dinitrotoluene	0.0508		0.0013	0.00011
95-48-7	2-Methylphenol	0.0377		0.0013	0.00010
108-39-4	3-Methylphenol	0.0384		0.0025	0.00010
106-44-5	4-Methylphenol	0.0384		0.0025	0.000090
118-74-1	Hexachlorobenzene	0.0433		0.0013	0.00013
87-68-3	Hexachlorobutadiene	0.0350		0.0013	0.00017
67-72-1	Hexachloroethane	0.0313		0.0013	0.00015
98-95-3	Nitrobenzene	0.0446		0.0013	0.000073
87-86-5	Pentachlorophenol	0.0722		0.0025	0.00055
110-86-1	Pyridine	0.0261		0.0063	0.00010

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol	79		52-132
321-60-8	2-Fluorobiphenyl	88		48-120
367-12-4	2-Fluorophenol	51		20-120
4165-60-0	Nitrobenzene-d5	88		46-120
4165-62-2	Phenol-d5	36		16-120
1718-51-0	p-Terphenyl-d14	88		67-150

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973V\20140508-31911.b\V0231.D
Lims ID: LCS 480-180799/2-A
Client ID:
Sample Type: LCS
Inject. Date: 08-May-2014 16:30:30 ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 480-0031911-006
Operator ID: hl Instrument ID: HP5973V

Method: \\Bufchrom\ChromData\HP5973V\20140508-31911.b\V-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 09-May-2014 08:05:23 Calib Date: 05-May-2014 14:41:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5973V\20140505-31759.b\V0093.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK009

First Level Reviewer: rimmera Date: 09-May-2014 01:20:16

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	6.077	6.077	0.000	94	61970	40.0	40.0	
* 2 Naphthalene-d8	136	7.573	7.573	0.000	99	201403	40.0	40.0	
* 3 Acenaphthene-d10	164	9.635	9.635	0.000	90	133237	40.0	40.0	
* 4 Phenanthrene-d10	188	11.238	11.233	0.005	96	241316	40.0	40.0	
* 5 Chrysene-d12	240	13.636	13.637	-0.001	96	288137	40.0	40.0	
* 6 Perylene-d12	264	14.897	14.892	0.005	99	292747	40.0	40.0	
$ 7 2-Fluorophenol	112	4.549	4.549	0.000	88	49130	50.0	25.5	
$ 8 Phenol-d5	99	5.676	5.677	0.000	0	47841	50.0	18.0	
$ 9 Nitrobenzene-d5	82	6.729	6.729	0.000	88	113034	50.0	44.2	
$ 10 2-Fluorobiphenyl	172	8.844	8.850	-0.006	95	215752	50.0	43.8	
$ 11 2,4,6-Tribromophenol	330	10.527	10.527	0.000	88	35009	50.0	39.6	
$ 12 p-Terphenyl-d14	244	12.712	12.718	-0.006	98	292084	50.0	43.8	
68 1,4-Dioxane	88	2.599	2.599	0.000	93	19784	50.0	29.1	
69 N-Nitrosodimethylamine	42	2.914	2.920	-0.006	82	32604	50.0	30.5	
70 Pyridine	52	2.973	2.973	0.000	89	35491	50.0	26.1	
80 Benzaldehyde	77	5.564	5.564	0.000	90	129004	100.0	67.2	
81 Phenol	94	5.692	5.693	-0.001	73	57068	50.0	19.3	
82 Aniline	93	5.687	5.693	-0.006	80	122042	50.0	36.0	
83 Bis(2-chloroethyl)ether	93	5.767	5.773	-0.006	94	89115	50.0	42.4	
84 2-Chlorophenol	128	5.837	5.842	-0.005	92	79481	50.0	39.9	
87 1,3-Dichlorobenzene	146	6.008	6.013	-0.005	92	72145	50.0	32.4	
88 1,4-Dichlorobenzene	146	6.098	6.099	-0.001	79	73115	50.0	31.7	
90 Benzyl alcohol	108	6.248	6.248	0.000	87	61230	50.0	41.9	
91 1,2-Dichlorobenzene	146	6.275	6.275	0.000	90	70235	50.0	32.7	
92 2-Methylphenol	108	6.398	6.398	0.000	93	75371	50.0	37.7	
93 2,2'-oxybis[1-chloropropan	45	6.408	6.403	0.005	89	134316	50.0	43.7	
94 Acetophenone	105	6.553	6.558	-0.005	90	134875	50.0	43.0	
95 N-Nitrosodi-n-propylamine	70	6.558	6.563	-0.005	92	76195	50.0	44.7	
96 4-Methylphenol	108	6.579	6.585	-0.006	85	76598	25.0	38.4	
99 Hexachloroethane	117	6.665	6.665	0.000	88	28704	50.0	31.3	
102 Nitrobenzene	77	6.750	6.750	0.000	86	112810	50.0	44.6	
106 Isophorone	82	7.033	7.039	-0.006	99	210547	50.0	50.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
107 2-Nitrophenol	139	7.124	7.130	-0.006	88	45432	50.0	45.8	
108 2,4-Dimethylphenol	107	7.199	7.204	-0.005	98	101203	50.0	45.6	
111 Bis(2-chloroethoxy)methane	93	7.300	7.301	-0.001	97	105192	50.0	47.1	
114 2,4-Dichlorophenol	162	7.423	7.423	0.000	95	83726	50.0	47.0	
115 Benzoic acid	105	7.338	7.466	-0.128	80	40272	100.0	24.6	
117 1,2,4-Trichlorobenzene	180	7.509	7.509	0.000	92	82649	50.0	37.5	
118 Naphthalene	128	7.594	7.600	-0.006	97	220289	50.0	40.8	
119 4-Chloroaniline	127	7.669	7.669	0.000	81	98276	50.0	43.1	
121 Hexachlorobutadiene	225	7.744	7.749	-0.005	92	49628	50.0	35.0	
124 Caprolactam	113	8.086	8.139	-0.053	61	16458	100.0	30.6	
129 4-Chloro-3-methylphenol	107	8.273	8.267	0.006	87	94153	50.0	48.4	
131 2-Methylnaphthalene	142	8.412	8.412	0.000	86	163602	50.0	42.4	
134 Hexachlorocyclopentadiene	237	8.599	8.599	0.000	92	51354	50.0	41.6	
135 1,2,4,5-Tetrachlorobenzene	216	8.609	8.609	0.000	97	102354	50.0	42.6	
137 2,4,6-Trichlorophenol	196	8.759	8.759	0.000	88	71990	50.0	48.3	
138 2,4,5-Trichlorophenol	196	8.818	8.812	0.006	88	74468	50.0	48.2	
140 1,1'-Biphenyl	154	8.962	8.962	0.000	96	215721	50.0	44.7	
141 2-Chloronaphthalene	162	8.983	8.983	0.000	94	173482	50.0	44.5	
143 2-Nitroaniline	65	9.117	9.117	0.000	72	70900	50.0	51.8	
146 Dimethyl phthalate	163	9.341	9.347	-0.006	96	236178	50.0	50.3	
148 1,3-Dinitrobenzene	168	9.379	9.379	0.000	79	38323	50.0	46.7	
149 2,6-Dinitrotoluene	165	9.411	9.411	0.000	83	52269	50.0	47.2	
150 Acenaphthylene	152	9.469	9.470	-0.001	91	288476	50.0	48.6	
151 3-Nitroaniline	138	9.608	9.608	0.000	84	47039	50.0	44.5	
152 Acenaphthene	153	9.672	9.673	0.000	96	185220	50.0	48.6	
153 2,4-Dinitrophenol	184	9.737	9.742	-0.005	81	75529	100.0	95.7	
154 4-Nitrophenol	109	9.870	9.865	0.005	54	46320	100.0	50.3	
155 Dibenzofuran	168	9.875	9.876	-0.001	84	271106	50.0	47.1	
156 2,4-Dinitrotoluene	165	9.881	9.886	-0.005	77	79947	50.0	50.8	
158 2,3,4,6-Tetrachlorophenol	232	10.036	10.030	0.006	71	64593	50.0	48.1	
161 Diethyl phthalate	149	10.159	10.159	0.000	95	236227	50.0	50.8	
162 Fluorene	166	10.260	10.260	0.000	81	204951	50.0	46.7	
163 4-Chlorophenyl phenyl ethe	204	10.265	10.265	0.000	90	120611	50.0	48.3	
164 4-Nitroaniline	138	10.308	10.314	-0.006	74	49354	50.0	53.0	
165 4,6-Dinitro-2-methylphenol	198	10.340	10.340	0.000	81	103354	100.0	89.3	
168 N-Nitrosodiphenylamine	169	10.404	10.394	0.010	61	271162	100.0	99.8	
170 1,2-Diphenylhydrazine	77	10.436	10.436	0.000	98	258430	50.0	49.0	
171 Azobenzene	77	10.436	10.436	0.000	100	258430	50.0	43.8	
175 4-Bromophenyl phenyl ether	248	10.784	10.784	0.000	70	74984	50.0	44.3	
179 Hexachlorobenzene	284	10.848	10.848	0.000	92	79546	50.0	43.3	
180 Atrazine	200	10.981	10.976	0.005	91	151992	100.0	106.1	
183 Pentachlorophenol	266	11.061	11.061	0.000	89	85129	100.0	72.2	
188 Phenanthrene	178	11.259	11.259	0.000	97	318432	50.0	48.6	
189 Anthracene	178	11.312	11.313	-0.001	97	325662	50.0	49.5	
192 Carbazole	167	11.473	11.478	-0.005	83	300035	50.0	50.1	
195 Di-n-butyl phthalate	149	11.809	11.809	0.000	100	381609	50.0	51.0	
201 Fluoranthene	202	12.376	12.376	0.000	97	427771	50.0	48.8	
202 Benzidine	184	12.498	12.504	-0.006	95	80147	100.0	72.5	
204 Pyrene	202	12.579	12.579	0.000	98	431708	50.0	44.6	
210 Butyl benzyl phthalate	149	13.134	13.134	0.000	97	174737	50.0	49.5	
215 3,3'-Dichlorobenzidine	252	13.604	13.599	0.005	66	295876	100.0	101.0	
216 Bis(2-ethylhexyl) phthalat	149	13.626	13.626	0.000	95	255484	50.0	48.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
217 Benzo[a]anthracene	228	13.626	13.626	0.000	97	434014	50.0	48.8	
218 Chrysene	228	13.663	13.663	0.000	92	383917	50.0	51.6	
220 Di-n-octyl phthalate	149	14.160	14.165	-0.005	100	409541	50.0	52.1	
221 Benzo[b]fluoranthene	252	14.545	14.550	-0.005	90	422610	50.0	44.3	
222 Benzo[k]fluoranthene	252	14.571	14.571	0.000	98	479046	50.0	52.5	
225 Benzo[a]pyrene	252	14.844	14.849	-0.005	70	414672	50.0	48.2	
227 Indeno[1,2,3-cd]pyrene	276	15.998	16.003	-0.005	93	463871	50.0	49.2	
228 Dibenz(a,h)anthracene	278	15.998	16.003	-0.005	60	402698	50.0	50.4	
229 Benzo[g,h,i]perylene	276	16.313	16.318	-0.005	90	367662	50.0	49.9	
256 Hexadecane	57		0.000						
251 1-Methylnaphthalene	142		0.000						
263 n-Decane	57		0.000						
265 n-Octadecane	57		0.000						
248 Indene	115		0.000						
S 233 3-Methylphenol	1				0		25.0	38.4	

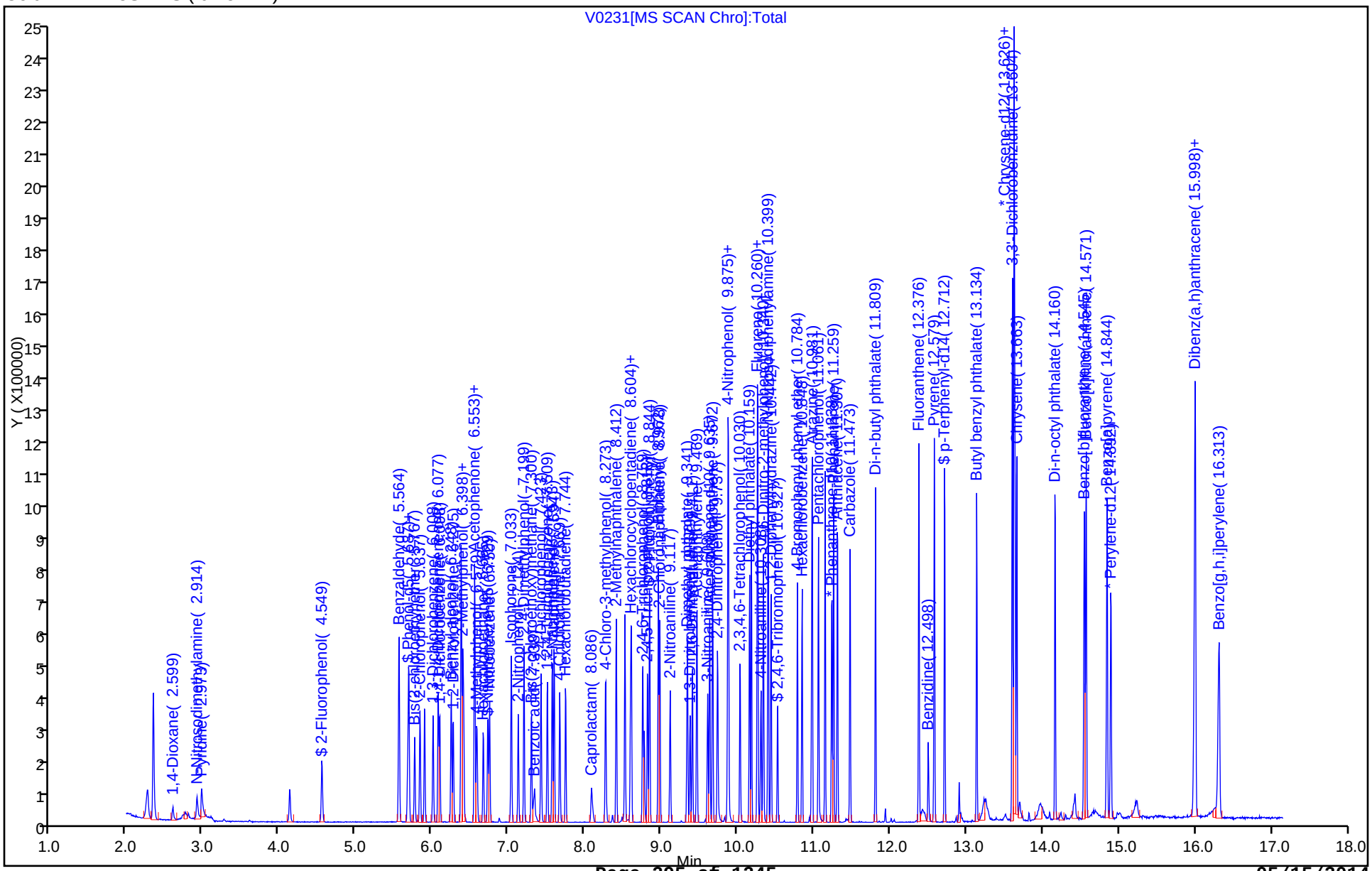
Report Date: 09-May-2014 08:05:24 Chrom Revision: 2.2 14-Apr-2014 13:40:08

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973V\20140508-31911.b\V0231.D

Injection Date:	08-May-2014 16:30:30	Instrument ID:	HP5973V	Operator ID:	hl
Lims ID:	LCS 480-180799/2-A			Worklist Smp#:	6
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	V-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.: 480-58807-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCSD 480-180799/3-A

Matrix: Solid | Lab File ID: V0232.D

Analysis Method: 8270D | Date Collected:

Extract. Method: 3510C | Date Extracted: 05/08/2014 06:29

Sample wt/vol: 1000(mL) | Date Analyzed: 05/08/2014 16:55

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.: 180978 | Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
106-46-7	1,4-Dichlorobenzene	0.0323		0.0025	0.00012
95-95-4	2,4,5-Trichlorophenol	0.0472		0.0013	0.00012
88-06-2	2,4,6-Trichlorophenol	0.0452		0.0013	0.00015
121-14-2	2,4-Dinitrotoluene	0.0494		0.0013	0.00011
95-48-7	2-Methylphenol	0.0382		0.0013	0.00010
108-39-4	3-Methylphenol	0.0384		0.0025	0.00010
106-44-5	4-Methylphenol	0.0384		0.0025	0.000090
118-74-1	Hexachlorobenzene	0.0441		0.0013	0.00013
87-68-3	Hexachlorobutadiene	0.0350		0.0013	0.00017
67-72-1	Hexachloroethane	0.0297		0.0013	0.00015
98-95-3	Nitrobenzene	0.0427		0.0013	0.000073
87-86-5	Pentachlorophenol	0.0728		0.0025	0.00055
110-86-1	Pyridine	0.0271		0.0063	0.00010

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol	82		52-132
321-60-8	2-Fluorobiphenyl	85		48-120
367-12-4	2-Fluorophenol	51		20-120
4165-60-0	Nitrobenzene-d5	85		46-120
4165-62-2	Phenol-d5	37		16-120
1718-51-0	p-Terphenyl-d14	90		67-150

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973V\20140508-31911.b\V0232.D
Lims ID: LCSD 480-180799/3-A
Client ID:
Sample Type: LCSD
Inject. Date: 08-May-2014 16:55:30 ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 480-0031911-007
Operator ID: hl Instrument ID: HP5973V

Method: \\Bufchrom\ChromData\HP5973V\20140508-31911.b\V-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 09-May-2014 08:05:23 Calib Date: 05-May-2014 14:41:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5973V\20140505-31759.b\V0093.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK009

First Level Reviewer: rimmera Date: 09-May-2014 01:22:56

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	6.072	6.077	-0.005	95	62233	40.0	40.0	
* 2 Naphthalene-d8	136	7.568	7.573	-0.005	99	209401	40.0	40.0	
* 3 Acenaphthene-d10	164	9.635	9.635	0.000	90	136416	40.0	40.0	
* 4 Phenanthrene-d10	188	11.232	11.233	-0.001	95	238693	40.0	40.0	
* 5 Chrysene-d12	240	13.636	13.637	-0.001	96	280845	40.0	40.0	
* 6 Perylene-d12	264	14.892	14.892	0.000	94	283764	40.0	40.0	
$ 7 2-Fluorophenol	112	4.549	4.549	0.000	85	49335	50.0	25.5	
$ 8 Phenol-d5	99	5.671	5.677	-0.005	0	49970	50.0	18.7	
$ 9 Nitrobenzene-d5	82	6.723	6.729	-0.006	87	112469	50.0	42.3	
$ 10 2-Fluorobiphenyl	172	8.844	8.850	-0.006	96	214685	50.0	42.6	
$ 11 2,4,6-Tribromophenol	330	10.527	10.527	0.000	89	35872	50.0	41.0	
$ 12 p-Terphenyl-d14	244	12.712	12.718	-0.006	98	291075	50.0	44.8	
68 1,4-Dioxane	88	2.589	2.599	-0.010	97	19056	50.0	27.9	
69 N-Nitrosodimethylamine	42	2.909	2.920	-0.011	82	34367	50.0	32.0	
70 Pyridine	52	2.973	2.973	0.000	89	36995	50.0	27.1	
80 Benzaldehyde	77	5.559	5.564	-0.005	89	130200	100.0	67.6	
81 Phenol	94	5.687	5.693	-0.006	71	60921	50.0	20.6	
82 Aniline	93	5.687	5.693	-0.006	81	121834	50.0	35.8	
83 Bis(2-chloroethyl)ether	93	5.767	5.773	-0.006	94	91624	50.0	43.4	
84 2-Chlorophenol	128	5.837	5.842	-0.005	93	80075	50.0	40.0	
87 1,3-Dichlorobenzene	146	6.008	6.013	-0.005	93	73406	50.0	32.8	
88 1,4-Dichlorobenzene	146	6.093	6.099	-0.006	77	74988	50.0	32.3	
90 Benzyl alcohol	108	6.243	6.248	-0.005	86	61640	50.0	42.0	
91 1,2-Dichlorobenzene	146	6.269	6.275	-0.006	86	70515	50.0	32.7	
92 2-Methylphenol	108	6.398	6.398	0.000	94	76653	50.0	38.2	
93 2,2'-oxybis[1-chloropropan	45	6.408	6.403	0.005	89	136603	50.0	44.2	
94 Acetophenone	105	6.553	6.558	-0.005	90	136136	50.0	43.2	
95 N-Nitrosodi-n-propylamine	70	6.558	6.563	-0.005	91	77192	50.0	45.1	
96 4-Methylphenol	108	6.579	6.585	-0.006	91	77049	25.0	38.4	
99 Hexachloroethane	117	6.665	6.665	0.000	90	27351	50.0	29.7	
102 Nitrobenzene	77	6.750	6.750	0.000	85	112394	50.0	42.7	
106 Isophorone	82	7.033	7.039	-0.006	98	209224	50.0	47.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
107 2-Nitrophenol	139	7.124	7.130	-0.006	89	44647	50.0	43.3	
108 2,4-Dimethylphenol	107	7.199	7.204	-0.005	98	101941	50.0	44.2	
111 Bis(2-chloroethoxy)methane	93	7.295	7.301	-0.006	96	106318	50.0	45.8	
114 2,4-Dichlorophenol	162	7.423	7.423	0.000	94	87359	50.0	47.1	
115 Benzoic acid	105	7.338	7.466	-0.128	80	42684	100.0	25.0	
117 1,2,4-Trichlorobenzene	180	7.503	7.509	-0.006	92	81541	50.0	35.6	
118 Naphthalene	128	7.594	7.600	-0.006	97	215354	50.0	38.4	
119 4-Chloroaniline	127	7.669	7.669	0.000	81	101215	50.0	42.7	
121 Hexachlorobutadiene	225	7.744	7.749	-0.005	92	51716	50.0	35.0	
124 Caprolactam	113	8.086	8.139	-0.053	59	17732	100.0	31.6	
129 4-Chloro-3-methylphenol	107	8.267	8.267	0.000	88	94169	50.0	46.6	
131 2-Methylnaphthalene	142	8.412	8.412	0.000	86	160596	50.0	40.1	
134 Hexachlorocyclopentadiene	237	8.593	8.599	-0.006	93	50952	50.0	40.5	
135 1,2,4,5-Tetrachlorobenzene	216	8.609	8.609	0.000	97	102738	50.0	41.8	
137 2,4,6-Trichlorophenol	196	8.759	8.759	0.000	88	68913	50.0	45.2	
138 2,4,5-Trichlorophenol	196	8.818	8.812	0.006	92	74724	50.0	47.2	
140 1,1'-Biphenyl	154	8.962	8.962	0.000	95	217277	50.0	44.0	
141 2-Chloronaphthalene	162	8.978	8.983	-0.005	92	172845	50.0	43.3	
143 2-Nitroaniline	65	9.117	9.117	0.000	67	72794	50.0	52.0	
146 Dimethyl phthalate	163	9.341	9.347	-0.006	96	235117	50.0	48.9	
148 1,3-Dinitrobenzene	168	9.379	9.379	0.000	78	38872	50.0	45.6	
149 2,6-Dinitrotoluene	165	9.405	9.411	-0.006	89	55224	50.0	48.7	
150 Acenaphthylene	152	9.464	9.470	-0.006	92	290664	50.0	47.8	
151 3-Nitroaniline	138	9.608	9.608	0.000	88	52974	50.0	48.9	
152 Acenaphthene	153	9.672	9.673	0.000	95	178357	50.0	45.7	
153 2,4-Dinitrophenol	184	9.737	9.742	-0.005	81	78916	100.0	97.7	
154 4-Nitrophenol	109	9.870	9.865	0.005	51	47213	100.0	50.1	
155 Dibenzofuran	168	9.875	9.876	-0.001	85	269750	50.0	45.7	
156 2,4-Dinitrotoluene	165	9.881	9.886	-0.005	81	79574	50.0	49.4	
158 2,3,4,6-Tetrachlorophenol	232	10.030	10.030	0.000	69	65965	50.0	48.0	
161 Diethyl phthalate	149	10.153	10.159	-0.006	95	233687	50.0	49.1	
162 Fluorene	166	10.260	10.260	0.000	89	210910	50.0	47.0	
163 4-Chlorophenyl phenyl ethe	204	10.265	10.265	0.000	93	123277	50.0	48.2	
164 4-Nitroaniline	138	10.308	10.314	-0.006	72	48779	50.0	51.2	
165 4,6-Dinitro-2-methylphenol	198	10.340	10.340	0.000	79	102269	100.0	89.3	
168 N-Nitrosodiphenylamine	169	10.399	10.394	0.005	60	284307	100.0	105.8	
170 1,2-Diphenylhydrazine	77	10.436	10.436	0.000	97	262493	50.0	48.6	
171 Azobenzene	77	10.436	10.436	0.000	99	262493	50.0	45.0	
175 4-Bromophenyl phenyl ether	248	10.784	10.784	0.000	63	74243	50.0	44.3	
179 Hexachlorobenzene	284	10.842	10.848	-0.006	92	80199	50.0	44.1	
180 Atrazine	200	10.976	10.976	0.000	93	150438	100.0	102.6	
183 Pentachlorophenol	266	11.061	11.061	0.000	88	85050	100.0	72.8	
188 Phenanthrene	178	11.259	11.259	0.000	97	320682	50.0	49.5	
189 Anthracene	178	11.307	11.313	-0.006	97	329271	50.0	50.6	
192 Carbazole	167	11.473	11.478	-0.005	83	297741	50.0	50.3	
195 Di-n-butyl phthalate	149	11.809	11.809	0.000	100	380765	50.0	51.5	
201 Fluoranthene	202	12.376	12.376	0.000	97	421496	50.0	48.6	
202 Benzidine	184	12.498	12.504	-0.006	95	81867	100.0	76.0	
204 Pyrene	202	12.579	12.579	0.000	98	429835	50.0	45.5	
210 Butyl benzyl phthalate	149	13.134	13.134	0.000	96	162900	50.0	47.4	
215 3,3'-Dichlorobenzidine	252	13.599	13.599	0.000	68	283579	100.0	99.3	
216 Bis(2-ethylhexyl) phthalat	149	13.626	13.626	0.000	83	252887	50.0	48.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
217 Benzo[a]anthracene	228	13.626	13.626	0.000	97	420475	50.0	48.6	
218 Chrysene	228	13.658	13.663	-0.005	93	376327	50.0	51.9	
220 Di-n-octyl phthalate	149	14.160	14.165	-0.005	100	401624	50.0	52.4	
221 Benzo[b]fluoranthene	252	14.545	14.550	-0.005	91	423864	50.0	45.9	
222 Benzo[k]fluoranthene	252	14.566	14.571	-0.005	97	425386	50.0	48.1	
225 Benzo[a]pyrene	252	14.844	14.849	-0.005	71	401224	50.0	48.1	
227 Indeno[1,2,3-cd]pyrene	276	15.992	16.003	-0.011	94	459102	50.0	50.2	
228 Dibenz(a,h)anthracene	278	15.998	16.003	-0.005	68	395844	50.0	51.1	
229 Benzo[g,h,i]perylene	276	16.307	16.318	-0.011	88	362047	50.0	50.7	
263 n-Decane	57		0.000						
256 Hexadecane	57		0.000						
251 1-Methylnaphthalene	142		0.000						
265 n-Octadecane	57		0.000						
248 Indene	115		0.000						
S 233 3-Methylphenol	1				0		25.0	38.4	

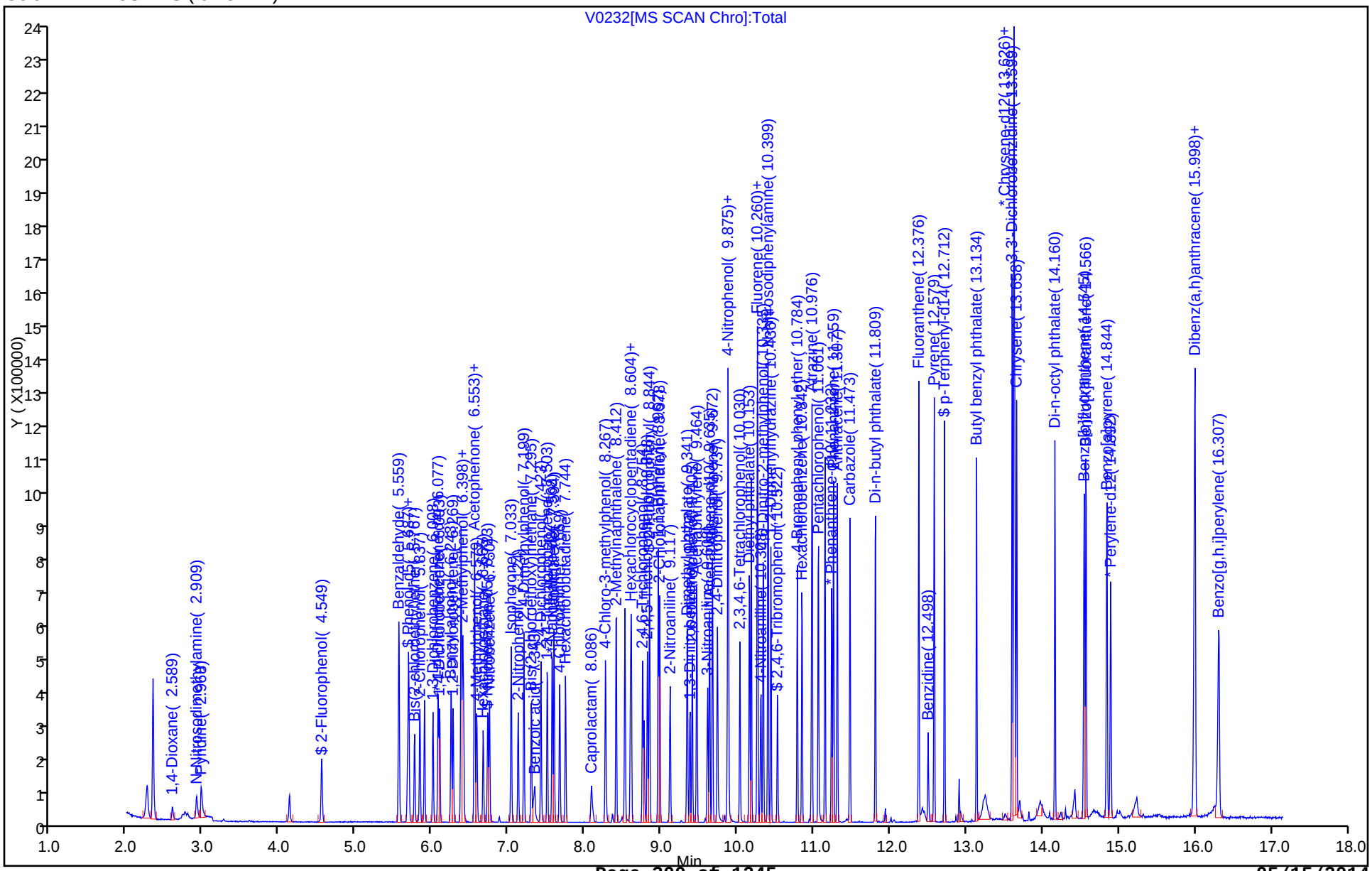
Report Date: 09-May-2014 08:05:32 Chrom Revision: 2.2 14-Apr-2014 13:40:08

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973V\20140508-31911.b\V0232.D

Injection Date:	08-May-2014 16:55:30	Instrument ID:	HP5973V	Operator ID:	hl
Lims ID:	LCSD 480-180799/3-A			Worklist Smp#:	7
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	V-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.: 480-58807-1

SDG No.:

Instrument ID: HP5973V Start Date: 05/05/2014 08:32

Analysis Batch Number: 180025 End Date: 05/05/2014 15:54

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 480-180025/2		05/05/2014 08:32	1	V0079.D	RXI-5Sil MS 0.25(mm)
IC 480-180025/3		05/05/2014 08:54	1	V0080.D	RXI-5Sil MS 0.25(mm)
IC 480-180025/4		05/05/2014 09:23	1	V0081.D	RXI-5Sil MS 0.25(mm)
ICIS 480-180025/5		05/05/2014 09:47	1	V0082.D	RXI-5Sil MS 0.25(mm)
IC 480-180025/6		05/05/2014 10:12	1	V0083.D	RXI-5Sil MS 0.25(mm)
IC 480-180025/7		05/05/2014 10:36	1	V0084.D	RXI-5Sil MS 0.25(mm)
IC 480-180025/8		05/05/2014 11:00	1	V0085.D	RXI-5Sil MS 0.25(mm)
ICVL 480-180025/10		05/05/2014 11:50	1		RXI-5Sil MS 0.25(mm)
ICV 480-180025/9		05/05/2014 12:14	1		RXI-5Sil MS 0.25(mm)
IC 480-180025/11		05/05/2014 12:39	1		RXI-5Sil MS 0.25(mm)
IC 480-180025/12		05/05/2014 13:04	1		RXI-5Sil MS 0.25(mm)
IC 480-180025/13		05/05/2014 13:28	1		RXI-5Sil MS 0.25(mm)
IC 480-180025/14		05/05/2014 13:52	1		RXI-5Sil MS 0.25(mm)
IC 480-180025/15		05/05/2014 14:17	1		RXI-5Sil MS 0.25(mm)
IC 480-180025/16		05/05/2014 14:41	1		RXI-5Sil MS 0.25(mm)
ICV 480-180025/17		05/05/2014 15:05	1		RXI-5Sil MS 0.25(mm)
CCVIS 480-180025/18		05/05/2014 15:30	1		RXI-5Sil MS 0.25(mm)
CCV 480-180025/19		05/05/2014 15:54	1		RXI-5Sil MS 0.25(mm)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1

SDG No.:

Instrument ID: HP5973V Start Date: 05/08/2014 15:00

Analysis Batch Number: 180978 End Date: 05/09/2014 00:12

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 480-180978/2		05/08/2014 15:00	1	V0227.D	RXI-5Sil MS 0.25(mm)
CCVIS 480-180978/3		05/08/2014 15:16	1	V0228.D	RXI-5Sil MS 0.25(mm)
CCV 480-180978/4		05/08/2014 15:41	1		RXI-5Sil MS 0.25(mm)
MB 480-180799/1-A		05/08/2014 16:05	1	V0230.D	RXI-5Sil MS 0.25(mm)
LCS 480-180799/2-A		05/08/2014 16:30	1	V0231.D	RXI-5Sil MS 0.25(mm)
LCSD 480-180799/3-A		05/08/2014 16:55	1	V0232.D	RXI-5Sil MS 0.25(mm)
ZZZZZ		05/08/2014 17:19	1		RXI-5Sil MS 0.25(mm)
LB 480-180381/1-D		05/08/2014 17:43	1	V0234.D	RXI-5Sil MS 0.25(mm)
ZZZZZ		05/08/2014 18:08	1		RXI-5Sil MS 0.25(mm)
ZZZZZ		05/08/2014 18:32	1		RXI-5Sil MS 0.25(mm)
ZZZZZ		05/08/2014 18:56	1		RXI-5Sil MS 0.25(mm)
ZZZZZ		05/08/2014 19:21	1		RXI-5Sil MS 0.25(mm)
ZZZZZ		05/08/2014 19:45	1		RXI-5Sil MS 0.25(mm)
ZZZZZ		05/08/2014 20:09	1		RXI-5Sil MS 0.25(mm)
ZZZZZ		05/08/2014 20:33	1		RXI-5Sil MS 0.25(mm)
ZZZZZ		05/08/2014 20:58	1		RXI-5Sil MS 0.25(mm)
480-58807-1	P1-1(Sed)	05/08/2014 21:22	1	V0243.D	RXI-5Sil MS 0.25(mm)
480-58807-2	P1-2(Sed)	05/08/2014 21:46	1	V0244.D	RXI-5Sil MS 0.25(mm)
480-58807-3	P2-1(Sed)	05/08/2014 22:10	1	V0245.D	RXI-5Sil MS 0.25(mm)
480-58807-4	P2-2(Sed)	05/08/2014 22:35	1	V0246.D	RXI-5Sil MS 0.25(mm)
ZZZZZ		05/08/2014 22:59	1		RXI-5Sil MS 0.25(mm)
ZZZZZ		05/08/2014 23:23	1		RXI-5Sil MS 0.25(mm)
ZZZZZ		05/08/2014 23:47	1		RXI-5Sil MS 0.25(mm)
ZZZZZ		05/09/2014 00:12	1		RXI-5Sil MS 0.25(mm)

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1

SDG No.:

Batch Number: 180381 Batch Start Date: 05/06/14 12:10 Batch Analyst: Gentner, Taylor R

Batch Method: 1311 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	EFD_PartSizeRed	EFD_SampleWeight	EFD_VolumeWaterAdd	EFD_InitialpH
LB 480-180381/1		1311, 3510C, 8270D			2000 mL				
480-58807-B-1	P1-1(Sed)	1311, 3510C, 8270D	P	100.80 g	2000 mL	No	5.27 g	96.5 mL	7.52 SU
480-58807-C-2	P1-2(Sed)	1311, 3510C, 8270D	P	100.86 g	2000 mL	No	5.75 g	96.5 mL	7.41 SU
480-58807-B-3	P2-1(Sed)	1311, 3510C, 8270D	P	100.48 g	2000 mL	No	5.20 g	96.5 mL	6.79 SU
480-58807-C-4	P2-2(Sed)	1311, 3510C, 8270D	P	100.59 g	2000 mL	No	5.42 g	96.5 mL	6.60 SU

Lab Sample ID	Client Sample ID	Method Chain	Basis	EFD_AddHClpH>5	EFD_HeatHeld	EFD_SecondpHCheck	ExtractionFluidOne	ExtractionFluidTwo	PartSizeRed
LB 480-180381/1		1311, 3510C, 8270D					Yes	No	
480-58807-B-1	P1-1(Sed)	1311, 3510C, 8270D	P	3.5 mL	Yes	1.27 SU	Yes	No	No
480-58807-C-2	P1-2(Sed)	1311, 3510C, 8270D	P	3.5 mL	Yes	1.29 SU	Yes	No	No
480-58807-B-3	P2-1(Sed)	1311, 3510C, 8270D	P	3.5 mL	Yes	1.17 SU	Yes	No	No
480-58807-C-4	P2-2(Sed)	1311, 3510C, 8270D	P	3.5 mL	Yes	1.21 SU	Yes	No	No

Lab Sample ID	Client Sample ID	Method Chain	Basis	VesselNumber	FiltCompDate	FiltCompTime	LeachatepH	LeachVolume	TCLP%Solids
LB 480-180381/1		1311, 3510C, 8270D		Cool	5/7/14	10:20	4.90 SU	1000/800 mL	
480-58807-B-1	P1-1(Sed)	1311, 3510C, 8270D	P	JK	5/7/14	10:20	4.89 SU	1000 mL	100 %
480-58807-C-2	P1-2(Sed)	1311, 3510C, 8270D	P	DC	5/7/14	10:20	4.94 SU	1000 mL	100 %
480-58807-B-3	P2-1(Sed)	1311, 3510C, 8270D	P	Co	5/7/14	10:20	4.95 SU	1000 mL	100 %
480-58807-C-4	P2-2(Sed)	1311, 3510C, 8270D	P	LOL	5/7/14	10:20	4.91 SU	1000 mL	100 %

Lab Sample ID	Client Sample ID	Method Chain	Basis	ExtractFluid					
LB 480-180381/1		1311, 3510C, 8270D		1					

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

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1

SDG No.:

Batch Number: 180381 Batch Start Date: 05/06/14 12:10 Batch Analyst: Gentner, Taylor R

Batch Method: 1311 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	ExtractFluid					
480-58807-B-1	P1-1(Sed)	1311, 3510C, 8270D	P	1					
480-58807-C-2	P1-2(Sed)	1311, 3510C, 8270D	P	1					
480-58807-B-3	P2-1(Sed)	1311, 3510C, 8270D	P	1					
480-58807-C-4	P2-2(Sed)	1311, 3510C, 8270D	P	1					

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.

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1

SDG No.:

Batch Number: 180381 Batch Start Date: 05/06/14 12:10 Batch Analyst: Gentner, Taylor R

Batch Method: 1311 Batch End Date:

Batch Notes	
Balance ID	B037067151
pH Buffer 1 ID	1808926 (10)
pH Buffer 2 ID	1808950 (7)
pH Buffer 3 ID	1808949 (4)
pH Buffer 4 ID	1324094 (2)
First End time	07:05
Final Room Temperature	23.00 Celsius
Initial Room Temperature	22.70 Celsius
pH Meter Calibration Slope	97.6%
Room Temperature during Rotation	22.70-23.00 Degrees C
Room Temperature Thermometer ID	122273689
First Start time	15:05
TCLP Fluid 1 ID	2054366
TCLP Fluid 1 pH	4.93
Temperature	23.00 Celsius
Maximum Temperature	23.00 Celsius
Minimum Temperature	22.70 Degrees C
ID number of the thermometer	12227689
Tumbler Rotations per Minute	30 RPM TG 5/6/14
Uncorrected Final Room Temperature	22.90 Celsius
Uncorrected Initial Room Temperature	22.60 Celsius
Uncorrected Room Temperature	22.60-22.90 Celsius
Uncorrected Temperature	22.90 Celsius
Uncorrected Maximum Temperature	22.90 Celsius
Uncorrected Minimum Temperature	22.60 Celsius

Basis	Basis Description
P	TCLP

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

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1

SDG No.:

Batch Number: 180799 Batch Start Date: 05/08/14 06:29 Batch Analyst: Ziemer, Michael C

Batch Method: 3510C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	ReceivedpH	InitialAmount	FinalAmount	FirstAdjustpH	SecondAdjustpH	O_8270/625LCS 00006
MB 480-180799/1		3510C, 8270D		7 SU	1000 mL	1 mL	<2 SU	>11 SU	
LCS 480-180799/2		3510C, 8270D		7 SU	1000 mL	1 mL	<2 SU	>11 SU	1 mL
LCSD 480-180799/3		3510C, 8270D		7 SU	1000 mL	1 mL	<2 SU	>11 SU	1 mL
LB 480-180381/1-A		3510C, 8270D		6 SU	250 mL	1 mL	<2 SU	>11 SU	
480-58807-B-1-F	P1-1(Sed)	3510C, 8270D	P	6 SU	250 mL	1 mL	<2 SU	>11 SU	
480-58807-C-2-F	P1-2(Sed)	3510C, 8270D	P	6 SU	250 mL	1 mL	<2 SU	>11 SU	
480-58807-B-3-H	P2-1(Sed)	3510C, 8270D	P	6 SU	250 mL	1 mL	<2 SU	>11 SU	
480-58807-C-4-H	P2-2(Sed)	3510C, 8270D	P	6 SU	250 mL	1 mL	<2 SU	>11 SU	

Lab Sample ID	Client Sample ID	Method Chain	Basis	O_8270surr 00014					
MB 480-180799/1		3510C, 8270D		1 mL					
LCS 480-180799/2		3510C, 8270D		1 mL					
LCSD 480-180799/3		3510C, 8270D		1 mL					
LB 480-180381/1-A		3510C, 8270D		1 mL					
480-58807-B-1-F	P1-1(Sed)	3510C, 8270D	P	1 mL					
480-58807-C-2-F	P1-2(Sed)	3510C, 8270D	P	1 mL					
480-58807-B-3-H	P2-1(Sed)	3510C, 8270D	P	1 mL					
480-58807-C-4-H	P2-2(Sed)	3510C, 8270D	P	1 mL					

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

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1

SDG No.:

Batch Number: 180799 Batch Start Date: 05/08/14 06:29 Batch Analyst: Ziemer, Michael C

Batch Method: 3510C Batch End Date:

Batch Notes	
Acid used for pH adjustment	1:1 Sulfuric Acid
Acid used for pH adjust Lot #	2403A28
Balance ID	14552245
Base used for pH adjustment	Sodium Hydroxide
Base used for pH adjust Lot #	HC388777
Person's name who did the concentration	MRB, MZ, LF
Na2SO4 Lot Number	27864002
Prep Solvent Lot #	0000073967
Prep Solvent Name	Methylene Chloride
Prep Solvent Volume Used	360 mL
Person's name who did the prep	MZ, MRB,
Person's name who witnessed reagent drop	MZ
Analyst who added reagent	MZ
Person who performed Spike	MZ
Person who witnessed spiking	MZ
Sufficient volume for MS/MSD?	NO

Basis	Basis Description
P	TCLP

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 8081B

Organochlorine Pesticides (GC) by Method 8081B

FORM II
GC SEMI VOA SURROGATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1

SDG No.:

Matrix: Solid (TCLP) Level: Low

GC Column (1): RTX-CLPI ID: 0.53 (mm) GC Column (2): RTX-CLPII ID: 0.53 (mm)

Client Sample ID	Lab Sample ID	TCX1 #	TCX2 #	DCB1 #	DCB2 #
P1-1(Sed)	480-58807-1	62	80	43	60
P1-2(Sed)	480-58807-2	66	84	50	63
P2-1(Sed)	480-58807-3	61	81	57	75
P2-2(Sed)	480-58807-4	63	84	62	80
	MB 480-180803/1-A	66	82	49	63
	LB 480-180381/1-F	66	76	64	80
	LCS 480-180803/2-A	72	87	63	72
	LCSD 480-180803/3-A	74	90	34	64

	QC LIMITS
TCX = Tetrachloro-m-xylene	36-120
DCB = DCB Decachlorobiphenyl	20-120

Column to be used to flag recovery values

FORM II 8081B

FORM III
GC SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 5_10112.D

Lab ID: LCS 480-180803/2-A Client ID:

COMPOUND	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC	QC LIMITS REC	#
Endrin	0.000500	0.000546	109	52-143	
gamma-BHC (Lindane)	0.000500	0.000497	99	56-127	
Heptachlor	0.000500	0.000506	101	51-125	
Heptachlor epoxide	0.000500	0.000512	102	50-140	
Methoxychlor	0.000500	0.000535	107	50-151	

Column to be used to flag recovery and RPD values

FORM III 8081B

FORM III
GC SEMI VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 5_10113.D

Lab ID: LCSD 480-180803/3-A Client ID:

COMPOUND	SPIKE ADDED (mg/L)	LCSD CONCENTRATION (mg/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Endrin	0.000500	0.000551	110	1	24	52-143	
gamma-BHC (Lindane)	0.000500	0.000502	100	1	24	56-127	
Heptachlor	0.000500	0.000495	99	2	25	51-125	
Heptachlor epoxide	0.000500	0.000514	103	0	23	50-140	
Methoxychlor	0.000500	0.000527	105	1	26	50-151	

Column to be used to flag recovery and RPD values

FORM III 8081B

FORM IV
GC SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1

SDG No.:

Lab Sample ID: MB 480-180803/1-A

Matrix: Water Date Extracted: 05/08/2014 07:12

Lab File ID:(1) 5_10111.D Lab File ID:(2) 5_10111.D

Date Analyzed:(1) 05/09/2014 10:22 Date Analyzed:(2) 05/09/2014 10:22

Instrument ID:(1) HP6890-5 Instrument ID:(2) HP6890-5

GC Column:(1) RTX-CLPI ID: 0.53(mm) GC Column:(2) RTX-CLPII 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 480-180803/2-A	05/09/2014 10:40	05/09/2014 10:40
	LCSD 480-180803/3-A	05/09/2014 10:57	05/09/2014 10:57
	LB 480-180381/1-F	05/09/2014 11:15	05/09/2014 11:15
P1-1(Sed)	480-58807-1	05/09/2014 11:50	05/09/2014 11:50
P1-2(Sed)	480-58807-2	05/09/2014 12:07	05/09/2014 12:07
P2-1(Sed)	480-58807-3	05/09/2014 12:25	05/09/2014 12:25
P2-2(Sed)	480-58807-4	05/09/2014 12:42	05/09/2014 12:42

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1

SDG No.:

Client Sample ID: P1-1(Sed) Lab Sample ID: 480-58807-1

Instrument ID (1): HP6890-5 Instrument ID (2): HP6890-5

Date Analyzed (1): 05/09/2014 11:50 Date Analyzed (2): 05/09/2014 11:50

GC Column (1): RTX-CLPI ID: 0.53(mm) GC Column (2): RTX-CLPII ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
gamma-BHC (Lindane)	1		2.64	2.66	2.72	0.000072		51.2
	2		3.22	3.19	3.25	0.000043		
Chlordane (technical)	1	1	3.44	3.39	3.45	0.00127	0.00090	56.0
		3	3.95	3.93	3.99	0.000882		
		4	4.09	4.06	4.12	0.000627		
		5	4.84	4.83	4.89	0.000829		
	2	1	4.09	4.07	4.13	0.000089	0.00051	
		2	4.48	4.46	4.52	0.000782		
		3	4.71	4.69	4.75	0.000493		
		4	4.87	4.84	4.90	0.000462		
		5	5.80	5.75	5.81	0.000708		

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1

SDG No.:

Client Sample ID: P1-2(Sed) Lab Sample ID: 480-58807-2

Instrument ID (1): HP6890-5 Instrument ID (2): HP6890-5

Date Analyzed (1): 05/09/2014 12:07 Date Analyzed (2): 05/09/2014 12:07

GC Column (1): RTX-CLPI ID: 0.53(mm) GC Column (2): RTX-CLPII ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
gamma-BHC (Lindane)	1		2.66	2.66	2.72	0.000094		74.6
	2		3.24	3.19	3.25	0.000043		
Heptachlor epoxide	1		3.85	3.81	3.87	0.000046		12.3
	2		4.48	4.49	4.55	0.000041		
Chlordane (technical)	1	1	3.41	3.39	3.45	0.00270	0.0015	99.0
		2	3.77	3.76	3.82	0.00261		
		3	3.95	3.93	3.99	0.000828		
		4	4.09	4.06	4.12	0.000543		
		5	4.85	4.83	4.89	0.000980		
	2	1	4.13	4.07	4.13	0.000225	0.00052	
		2	4.48	4.46	4.52	0.00108		
		3	4.72	4.69	4.75	0.000392		
		4	4.87	4.84	4.90	0.000372		

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 480-180803/2-A

Instrument ID (1): HP6890-5 Instrument ID (2): HP6890-5

Date Analyzed (1): 05/09/2014 10:40 Date Analyzed (2): 05/09/2014 10:40

GC Column (1): RTX-CLPI ID: 0.53(mm) GC Column (2): RTX-CLPII ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
gamma-BHC (Lindane)	1		2.69	2.66	2.72	0.000409		19.6
	2		3.22	3.19	3.25	0.000497		
Heptachlor	1		3.05	3.02	3.08	0.000439		14.1
	2		3.63	3.60	3.66	0.000506		
Heptachlor epoxide	1		3.84	3.81	3.87	0.000484		5.6
	2		4.52	4.49	4.55	0.000512		
Endrin	1		4.69	4.66	4.72	0.000543		0.4
	2		5.50	5.47	5.53	0.000546		
Methoxychlor	1		5.60	5.57	5.63	0.000532		0.6
	2		6.64	6.61	6.67	0.000535		

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1

SDG No.:

Client Sample ID: Lab Sample ID: LCSD 480-180803/3-A

Instrument ID (1): HP6890-5 Instrument ID (2): HP6890-5

Date Analyzed (1): 05/09/2014 10:57 Date Analyzed (2): 05/09/2014 10:57

GC Column (1): RTX-CLPI ID: 0.53(mm) GC Column (2): RTX-CLPII ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
gamma-BHC (Lindane)	1		2.69	2.66	2.72	0.000410		20.0
	2		3.22	3.19	3.25	0.000502		
Heptachlor	1		3.05	3.02	3.08	0.000432		13.6
	2		3.63	3.60	3.66	0.000495		
Heptachlor epoxide	1		3.84	3.81	3.87	0.000483		6.3
	2		4.52	4.49	4.55	0.000514		
Endrin	1		4.69	4.66	4.72	0.000538		2.5
	2		5.50	5.47	5.53	0.000551		
Methoxychlor	1		5.60	5.57	5.63	0.000516		2.1
	2		6.64	6.61	6.67	0.000527		

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1

SDG No.:

Client Sample ID: Lab Sample ID: LB 480-180381/1-F

Instrument ID (1): HP6890-5 Instrument ID (2): HP6890-5

Date Analyzed (1): 05/09/2014 11:15 Date Analyzed (2): 05/09/2014 11:15

GC Column (1): RTX-CLPI ID: 0.53(mm) GC Column (2): RTX-CLPII ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
gamma-BHC (Lindane)	1		2.71	2.66	2.72	0.0000847		58.3
	2		3.19	3.19	3.25	0.0000465		

FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1

SDG No.:

Client Sample ID: P1-1(Sed) Lab Sample ID: 480-58807-1

Matrix: Solid (TCLP) Lab File ID: 5_10116.D

Analysis Method: 8081B Date Collected: 04/25/2014 00:00

Extraction Method: 3510C Date Extracted: 05/08/2014 07:12

Sample wt/vol: 250(mL) Date Analyzed: 05/09/2014 11:50

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: RTX-CLPI ID: 0.53(mm)

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

Analysis Batch No.: 181145 Units: mg/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	43		20-120
877-09-8	Tetrachloro-m-xylene	62		36-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-05\20140509-31941.b\5_10116.D
Lims ID: 480-58807-B-1-I Lab Sample ID: 480-58807-1
Client ID: P1-1(Sed)
Sample Type: Client
Inject. Date: 09-May-2014 11:50:11 ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, CN10520009
Operator ID: buftchrom Instrument ID: HP6890-5

Method: \\Bufchrom\ChromData\HP6890-05\20140509-31941.b\8081-5.m
Limit Group: GC - 8081B ICAL
Last Update: 12-May-2014 12:38:04 Calib Date: 27-Mar-2014 19:29:41
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP6890-05\20140326-30487.b\5__7098.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK027

First Level Reviewer: WolfL Date: 09-May-2014 12:15:55

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Flags
$ 1 Tetrachloro-m-xylene						
1	2.103	2.103	0.000	890231	0.0124	
2	2.443	2.443	0.000	1450571	0.0160	
					RPD = 25.43	
$ 2 DCB Decachlorobiphenyl						
1	7.117	7.117	0.000	660079	0.008604	
2	8.113	8.113	0.000	850469	0.0121	
					RPD = 33.76	
6 gamma-BHC (Lindane)						
1	2.643	2.693	-0.050	37209	0.001808	
2	3.223	3.217	0.006	25310	0.001070	
					RPD = 51.24	
11 Chlordane (technical)						M
1	3.437	3.423	0.014	83240	0.0317	
1	0.000	3.787	-3.787	0	0	
1	3.950	3.963	-0.013	150595	0.0221	
1	4.087	4.087	0.000	134927	0.0157	
1	4.843	4.857	-0.014	9885	0.0207	
		Average of Peak Amounts =			0.0225	
2	4.093	4.097	-0.004	19579	0.002233	
2	4.483	4.490	-0.007	56022	0.0196	
2	4.713	4.723	-0.010	94064	0.0123	
2	4.867	4.873	-0.006	57346	0.0116	
2	5.800	5.777	0.023	19913	0.0177	M
		Average of Peak Amounts =			0.0127	
					RPD = 56.03	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Flags

QC Flag Legend

Review Flags
M - Manually Integrated

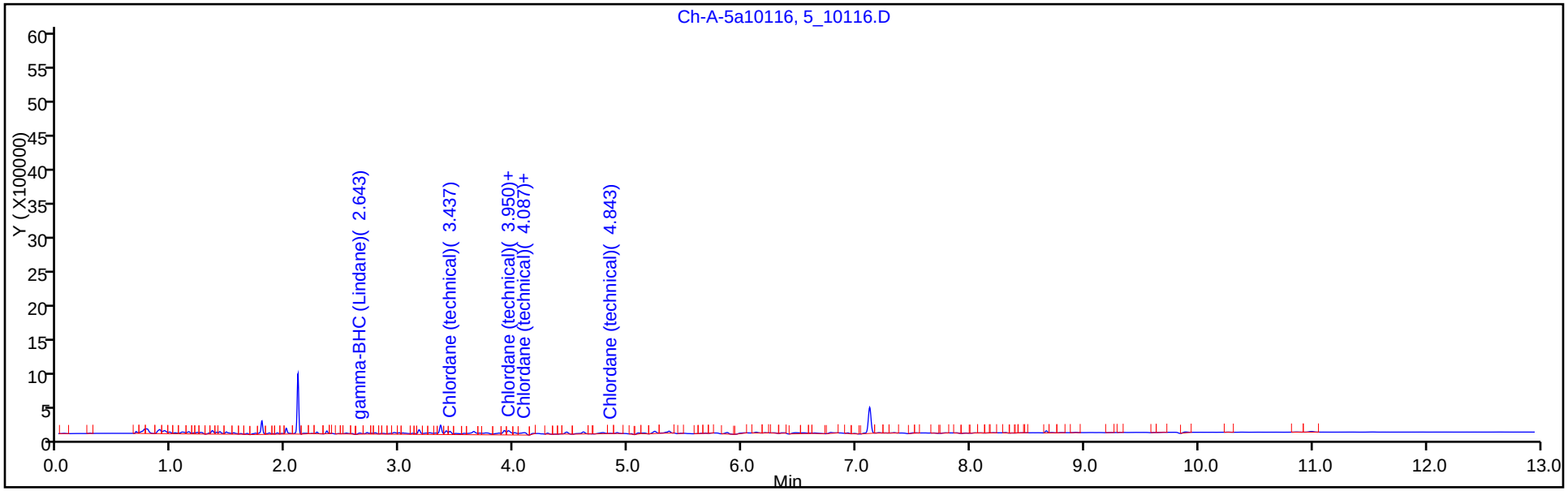
Report Date: 12-May-2014 12:38:16 Chrom Revision: 2.2 14-Apr-2014 13:40:08

TestAmerica Buffalo

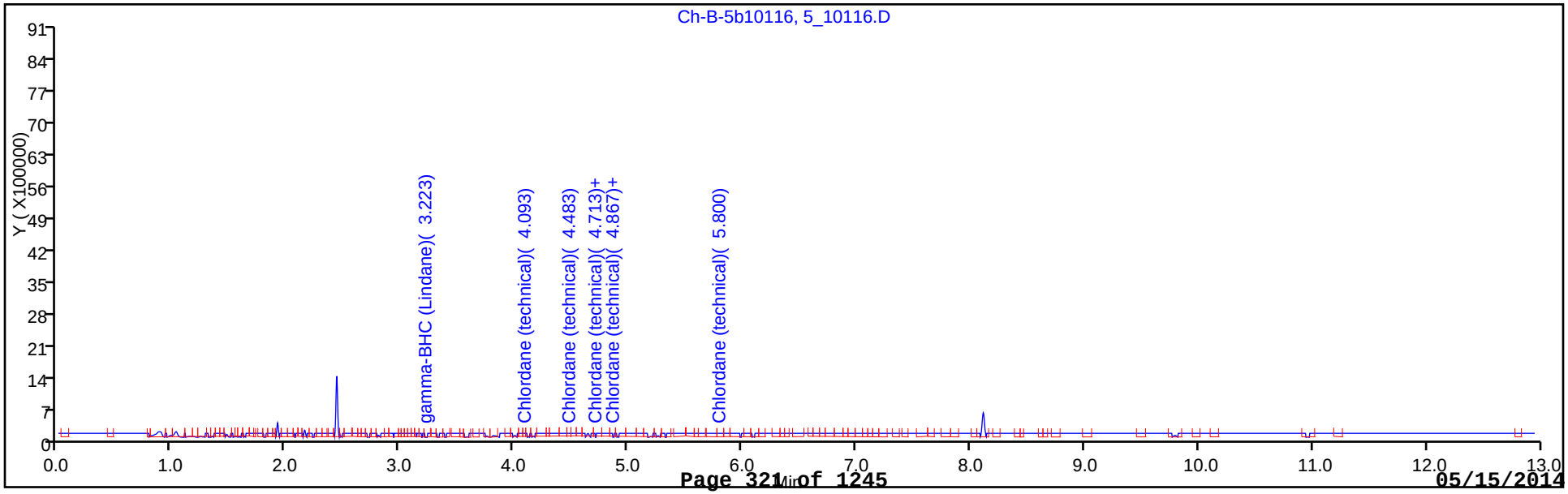
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Injection Date:	09-May-2014 11:50:11	Instrument ID:	HP6890-5	Operator ID:	buftchrom
Lims ID:	480-58807-B-1-I	Lab Sample ID:	480-58807-1	Worklist Smp#:	10
Client ID:	P1-1(Sed)				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8081-5	Limit Group:	GC - 8081B ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-58807-1

SDG No.:

Client Sample ID: P1-1(Sed) | Lab Sample ID: 480-58807-1

Matrix: Solid (TCLP) | Lab File ID: 5_10116.D

Analysis Method: 8081B | Date Collected: 04/25/2014 00:00

Extraction Method: 3510C | Date Extracted: 05/08/2014 07:12

Sample wt/vol: 250(mL) | Date Analyzed: 05/09/2014 11:50

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RTX-CLPII ID: 0.53(mm)

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

Analysis Batch No.: 181145 | Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
57-74-9	Chlordane (technical)	0.00051	J	0.0020	0.000029
72-20-8	Endrin	ND		0.00020	0.000014
58-89-9	gamma-BHC (Lindane)	0.000043	J B	0.00020	0.0000060
76-44-8	Heptachlor	ND		0.00020	0.0000085
1024-57-3	Heptachlor epoxide	ND		0.00020	0.0000053
72-43-5	Methoxychlor	ND		0.00020	0.000014
8001-35-2	Toxaphene	ND		0.0020	0.00012

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	60		20-120
877-09-8	Tetrachloro-m-xylene	80		36-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-05\20140509-31941.b\5_10116.D
Lims ID: 480-58807-B-1-I Lab Sample ID: 480-58807-1
Client ID: P1-1(Sed)
Sample Type: Client
Inject. Date: 09-May-2014 11:50:11 ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, CN10520009
Operator ID: buftchrom Instrument ID: HP6890-5

Method: \\Bufchrom\ChromData\HP6890-05\20140509-31941.b\8081-5.m
Limit Group: GC - 8081B ICAL
Last Update: 12-May-2014 12:38:04 Calib Date: 27-Mar-2014 19:29:41
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP6890-05\20140326-30487.b\5__7098.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK027

First Level Reviewer: WolfL Date: 09-May-2014 12:15:55

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Flags
$ 1 Tetrachloro-m-xylene						
1	2.103	2.103	0.000	890231	0.0124	
2	2.443	2.443	0.000	1450571	0.0160	
					RPD = 25.43	
$ 2 DCB Decachlorobiphenyl						
1	7.117	7.117	0.000	660079	0.008604	
2	8.113	8.113	0.000	850469	0.0121	
					RPD = 33.76	
6 gamma-BHC (Lindane)						
1	2.643	2.693	-0.050	37209	0.001808	
2	3.223	3.217	0.006	25310	0.001070	
					RPD = 51.24	
11 Chlordane (technical)						M
1	3.437	3.423	0.014	83240	0.0317	
1	0.000	3.787	-3.787	0	0	
1	3.950	3.963	-0.013	150595	0.0221	
1	4.087	4.087	0.000	134927	0.0157	
1	4.843	4.857	-0.014	9885	0.0207	
		Average of Peak Amounts =			0.0225	
2	4.093	4.097	-0.004	19579	0.002233	
2	4.483	4.490	-0.007	56022	0.0196	
2	4.713	4.723	-0.010	94064	0.0123	
2	4.867	4.873	-0.006	57346	0.0116	
2	5.800	5.777	0.023	19913	0.0177	M
		Average of Peak Amounts =			0.0127	
					RPD = 56.03	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Flags

QC Flag Legend

Review Flags
M - Manually Integrated

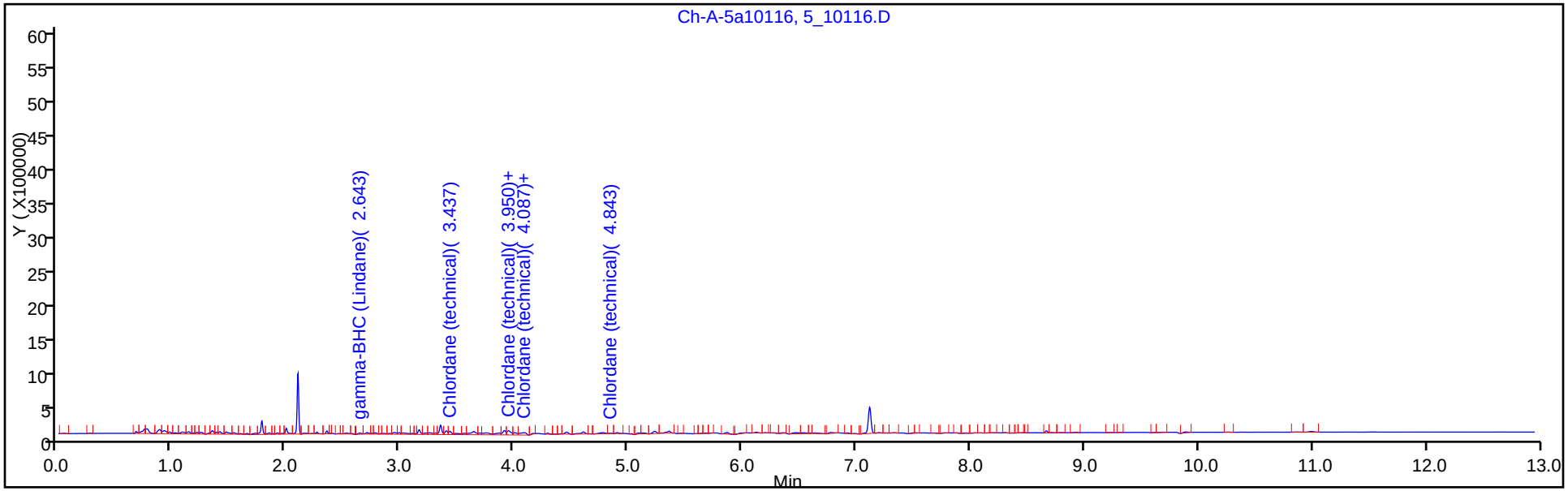
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TestAmerica Buffalo

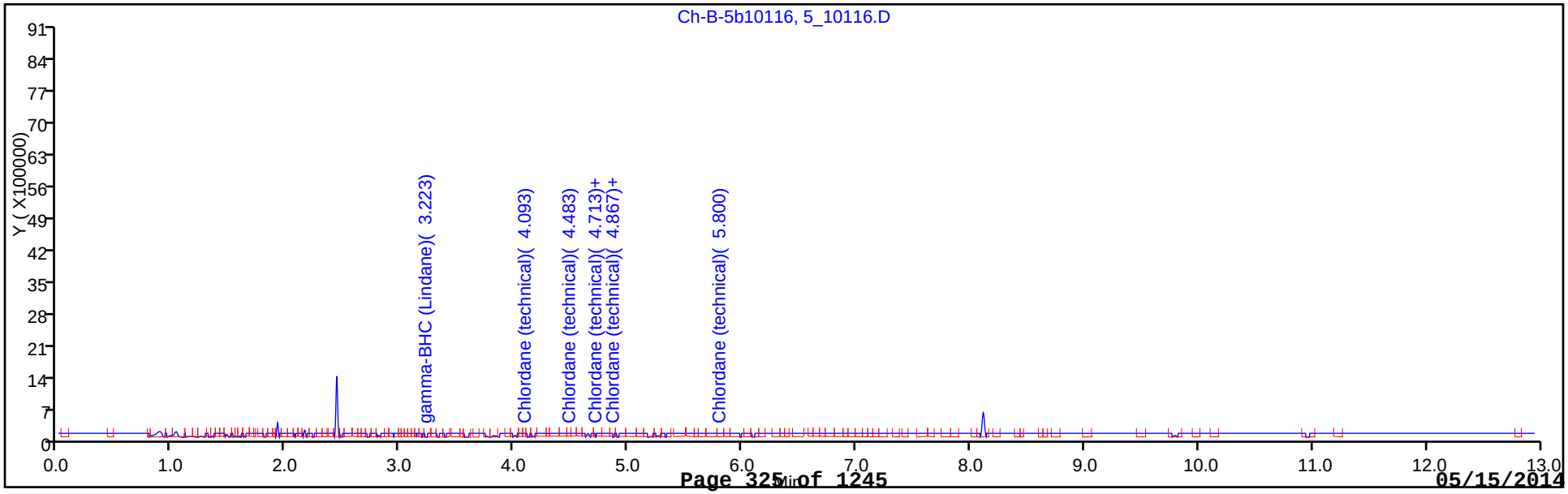
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Injection Date:	09-May-2014 11:50:11	Instrument ID:	HP6890-5	Operator ID:	buftchrom
Lims ID:	480-58807-B-1-I	Lab Sample ID:	480-58807-1	Worklist Smp#:	10
Client ID:	P1-1(Sed)				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8081-5	Limit Group:	GC - 8081B ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



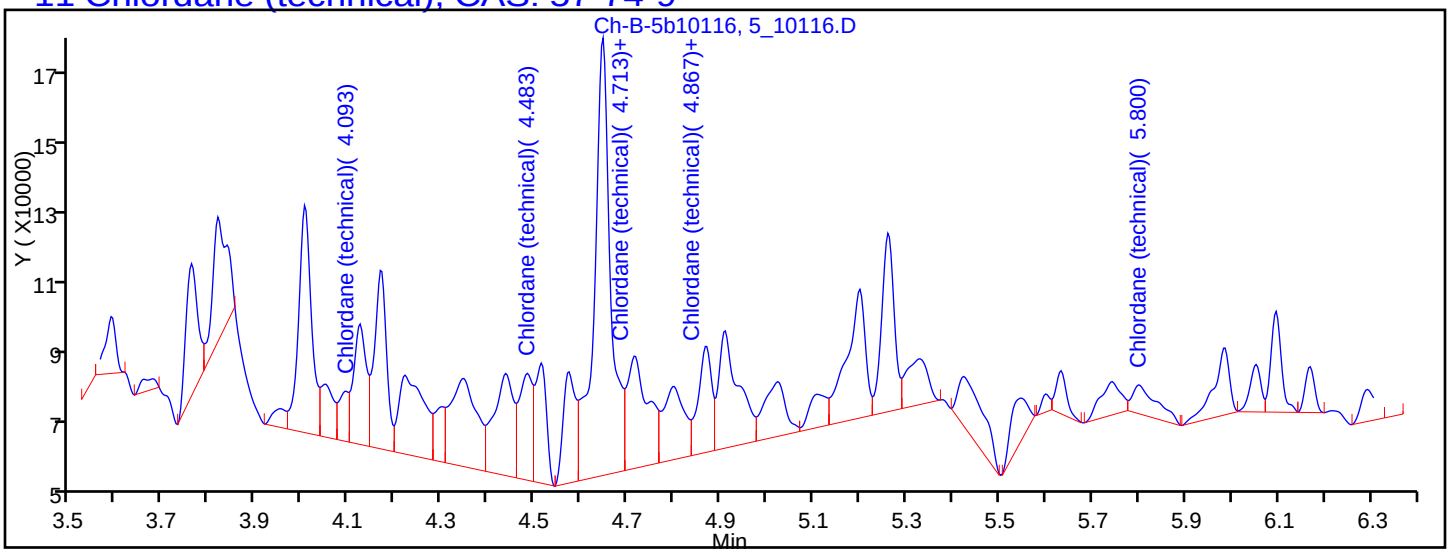
Report Date: 12-May-2014 12:38:17 Chrom Revision: 2.2 14-Apr-2014 13:40:08

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-05\20140509-31941.b\5_10116.D

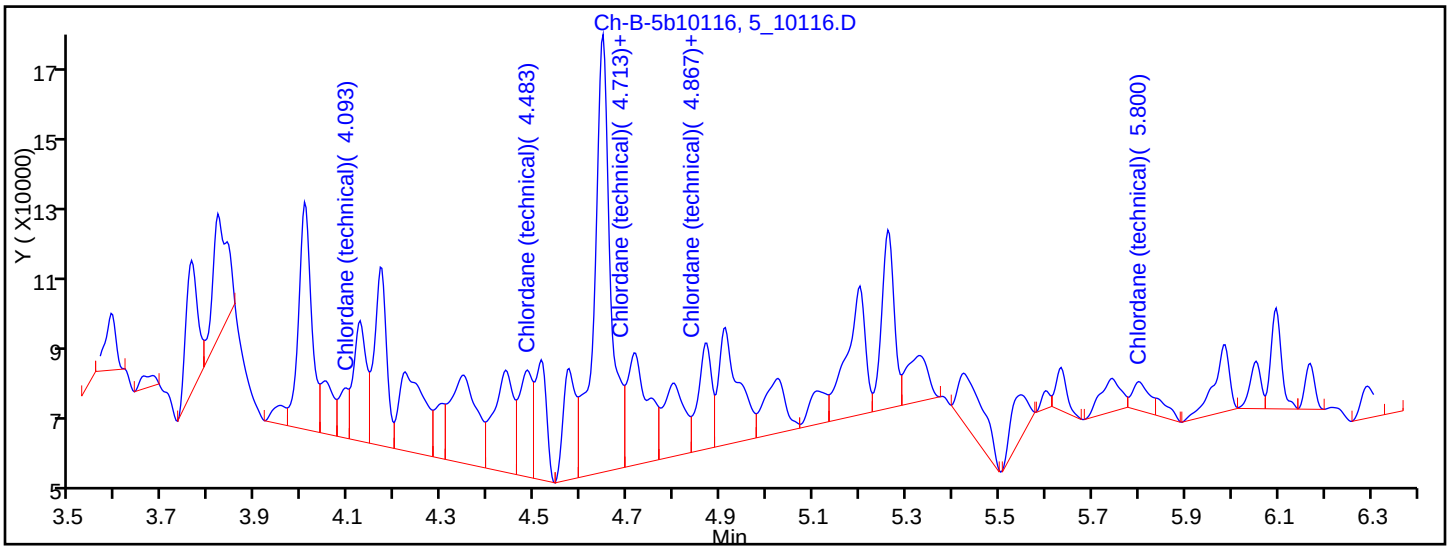
Injection Date:	09-May-2014 11:50:11	Instrument ID:	HP6890-5		
Lims ID:	480-58807-B-1-I	Lab Sample ID:	480-58807-1		
Client ID:	P1-1(Sed)				
Operator ID:	buftchrom	ALS Bottle#:	0	Worklist Smp#:	10
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8081-5	Limit Group:	GC - 8081B ICAL		
Column:		Detector	Ch-B-6b58132		

11 Chlordane (technical), CAS: 57-74-9



Processing Integration Results

RT = 4.093	Response = 19579	
RT = 4.483	Response = 56022	
RT = 4.713	Response = 94064	
RT = 4.867	Response = 57346	
RT = 5.800	Response = 29554	M



Manual Integration Results

RT = 4.093	Response = 19579	
RT = 4.483	Response = 56022	
RT = 4.713	Response = 94064	
RT = 4.867	Response = 57346	
RT = 5.800	Response = 19913	M

Reviewer: WolfL, 12-May-2014 12:19:55

Audit Action: Split an Integrated Peak

Audit Reason: Split Peak

FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1

SDG No.:

Client Sample ID: P1-2(Sed) Lab Sample ID: 480-58807-2

Matrix: Solid (TCLP) Lab File ID: 5_10117.D

Analysis Method: 8081B Date Collected: 04/25/2014 00:00

Extraction Method: 3510C Date Extracted: 05/08/2014 07:12

Sample wt/vol: 250(mL) Date Analyzed: 05/09/2014 12:07

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: RTX-CLPI ID: 0.53(mm)

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

Analysis Batch No.: 181145 Units: mg/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	50		20-120
877-09-8	Tetrachloro-m-xylene	66		36-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-05\20140509-31941.b\5_10117.D
Lims ID: 480-58807-C-2-I Lab Sample ID: 480-58807-2
Client ID: P1-2(Sed)
Sample Type: Client
Inject. Date: 09-May-2014 12:07:41 ALS Bottle#: 0 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, CN10520009
Operator ID: buftchrom Instrument ID: HP6890-5

Method: \\Bufchrom\ChromData\HP6890-05\20140509-31941.b\8081-5.m
Limit Group: GC - 8081B ICAL
Last Update: 12-May-2014 12:38:04 Calib Date: 27-Mar-2014 19:29:41
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP6890-05\20140326-30487.b\5__7098.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK027

First Level Reviewer: WolfL Date: 12-May-2014 12:21:39

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Flags
$ 1 Tetrachloro-m-xylene						
1	2.103	2.103	0.000	944298	0.0131	
2	2.443	2.443	0.000	1528761	0.0169	
					RPD = 25.07	
$ 2 DCB Decachlorobiphenyl						
1	7.120	7.117	0.003	785573	0.0101	
2	8.117	8.113	0.004	879243	0.0125	
					RPD = 21.62	
6 gamma-BHC (Lindane)						
1	2.663	2.693	-0.030	101946	0.002348	
2	3.243	3.217	0.026	25627	0.001073	
					RPD = 74.56	
11 Chlordane (technical)						
1	3.407	3.423	-0.016	185769	0.0674	
1	3.770	3.787	-0.017	106439	0.0653	
1	3.953	3.963	-0.010	131811	0.0207	
1	4.087	4.087	0.000	85886	0.0136	
1	4.847	4.857	-0.010	22810	0.0245	
		Average of Peak Amounts =			0.0383	
2	4.127	4.097	0.030	31988	0.005629	
2	4.483	4.490	-0.007	80997	0.0270	
2	4.717	4.723	-0.006	56039	0.009803	
2	4.873	4.873	0.000	32494	0.009289	
2	0.000	5.777	-5.777	0	0	
		Average of Peak Amounts =			0.0129	
					RPD = 99.00	
13 Heptachlor epoxide						
1	3.847	3.840	0.007	98331	0.001153	
2	4.483	4.520	-0.037	80997	0.001020	
					RPD = 12.25	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Flags

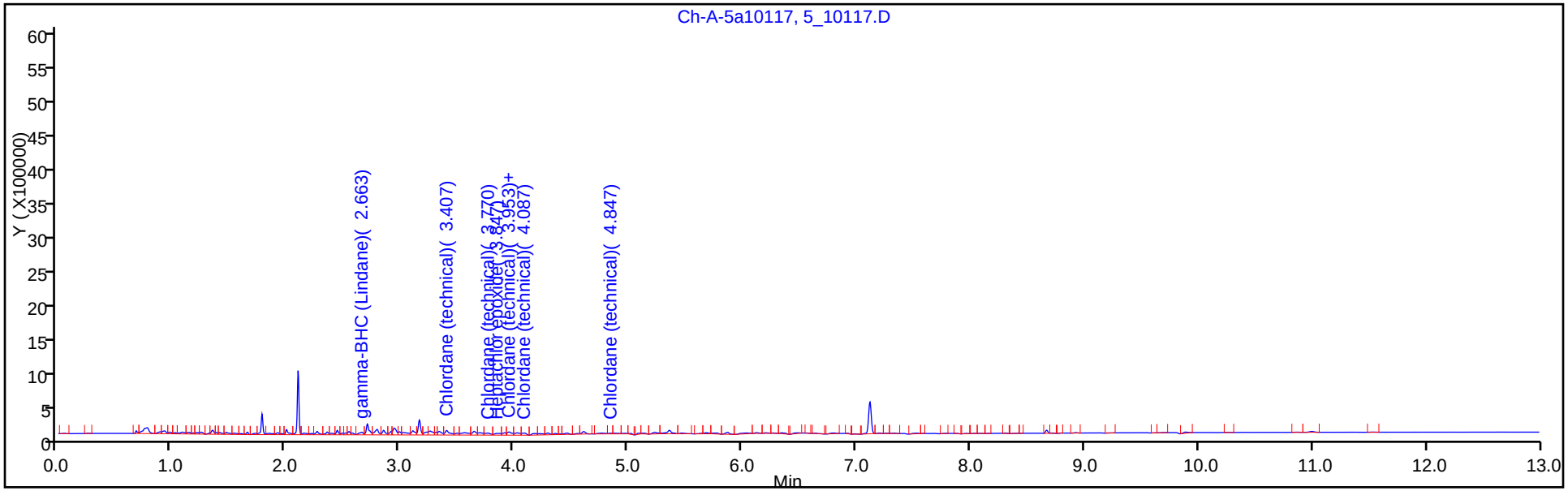
Report Date: 12-May-2014 12:38:18 Chrom Revision: 2.2 14-Apr-2014 13:40:08

TestAmerica Buffalo

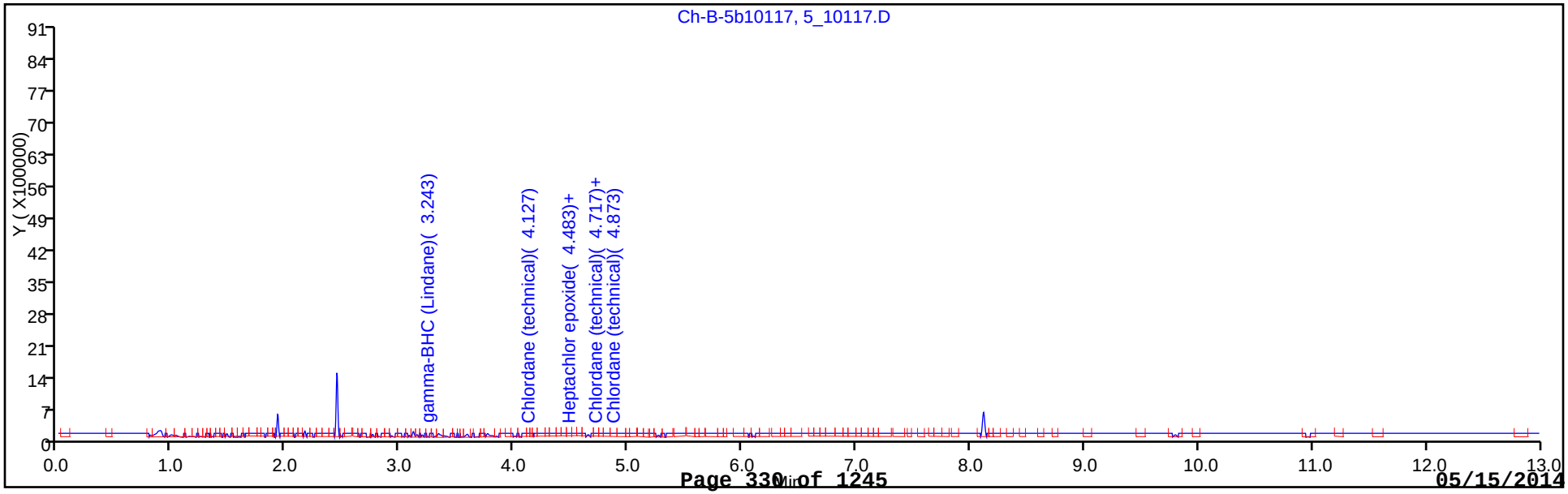
Data File: \\Bufchrom\ChromData\HP6890-05\20140509-31941.b\5_10117.D

Injection Date:	09-May-2014 12:07:41	Instrument ID:	HP6890-5	Operator ID:	buftchrom
Lims ID:	480-58807-C-2-I	Lab Sample ID:	480-58807-2	Worklist Smp#:	11
Client ID:	P1-2(Sed)				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8081-5	Limit Group:	GC - 8081B ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-58807-1

SDG No.:

Client Sample ID: P1-2(Sed) | Lab Sample ID: 480-58807-2

Matrix: Solid (TCLP) | Lab File ID: 5_10117.D

Analysis Method: 8081B | Date Collected: 04/25/2014 00:00

Extraction Method: 3510C | Date Extracted: 05/08/2014 07:12

Sample wt/vol: 250(mL) | Date Analyzed: 05/09/2014 12:07

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RTX-CLPII ID: 0.53(mm)

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

Analysis Batch No.: 181145 | Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
57-74-9	Chlordane (technical)	0.00052	J	0.0020	0.000029
72-20-8	Endrin	ND		0.00020	0.000014
58-89-9	gamma-BHC (Lindane)	0.000043	J B	0.00020	0.0000060
76-44-8	Heptachlor	ND		0.00020	0.0000085
1024-57-3	Heptachlor epoxide	0.000041	J	0.00020	0.0000053
72-43-5	Methoxychlor	ND		0.00020	0.000014
8001-35-2	Toxaphene	ND		0.0020	0.00012

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	63		20-120
877-09-8	Tetrachloro-m-xylene	84		36-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-05\20140509-31941.b\5_10117.D
Lims ID: 480-58807-C-2-I Lab Sample ID: 480-58807-2
Client ID: P1-2(Sed)
Sample Type: Client
Inject. Date: 09-May-2014 12:07:41 ALS Bottle#: 0 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, CN10520009
Operator ID: buftchrom Instrument ID: HP6890-5

Method: \\Bufchrom\ChromData\HP6890-05\20140509-31941.b\8081-5.m
Limit Group: GC - 8081B ICAL
Last Update: 12-May-2014 12:38:04 Calib Date: 27-Mar-2014 19:29:41
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP6890-05\20140326-30487.b\5__7098.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK027

First Level Reviewer: WolfL Date: 12-May-2014 12:21:39

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Flags
$ 1 Tetrachloro-m-xylene						
1	2.103	2.103	0.000	944298	0.0131	
2	2.443	2.443	0.000	1528761	0.0169	
					RPD = 25.07	
$ 2 DCB Decachlorobiphenyl						
1	7.120	7.117	0.003	785573	0.0101	
2	8.117	8.113	0.004	879243	0.0125	
					RPD = 21.62	
6 gamma-BHC (Lindane)						
1	2.663	2.693	-0.030	101946	0.002348	
2	3.243	3.217	0.026	25627	0.001073	
					RPD = 74.56	
11 Chlordane (technical)						
1	3.407	3.423	-0.016	185769	0.0674	
1	3.770	3.787	-0.017	106439	0.0653	
1	3.953	3.963	-0.010	131811	0.0207	
1	4.087	4.087	0.000	85886	0.0136	
1	4.847	4.857	-0.010	22810	0.0245	
		Average of Peak Amounts =			0.0383	
2	4.127	4.097	0.030	31988	0.005629	
2	4.483	4.490	-0.007	80997	0.0270	
2	4.717	4.723	-0.006	56039	0.009803	
2	4.873	4.873	0.000	32494	0.009289	
2	0.000	5.777	-5.777	0	0	
		Average of Peak Amounts =			0.0129	
					RPD = 99.00	
13 Heptachlor epoxide						
1	3.847	3.840	0.007	98331	0.001153	
2	4.483	4.520	-0.037	80997	0.001020	
					RPD = 12.25	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Flags

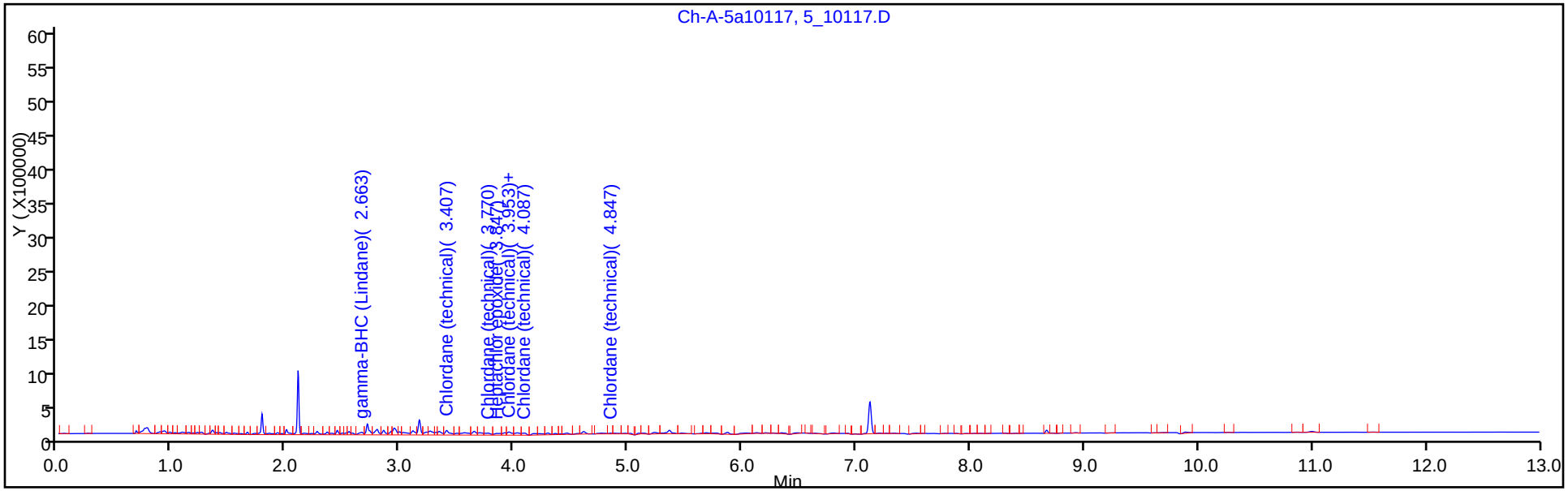
Report Date: 12-May-2014 12:38:18 Chrom Revision: 2.2 14-Apr-2014 13:40:08

TestAmerica Buffalo

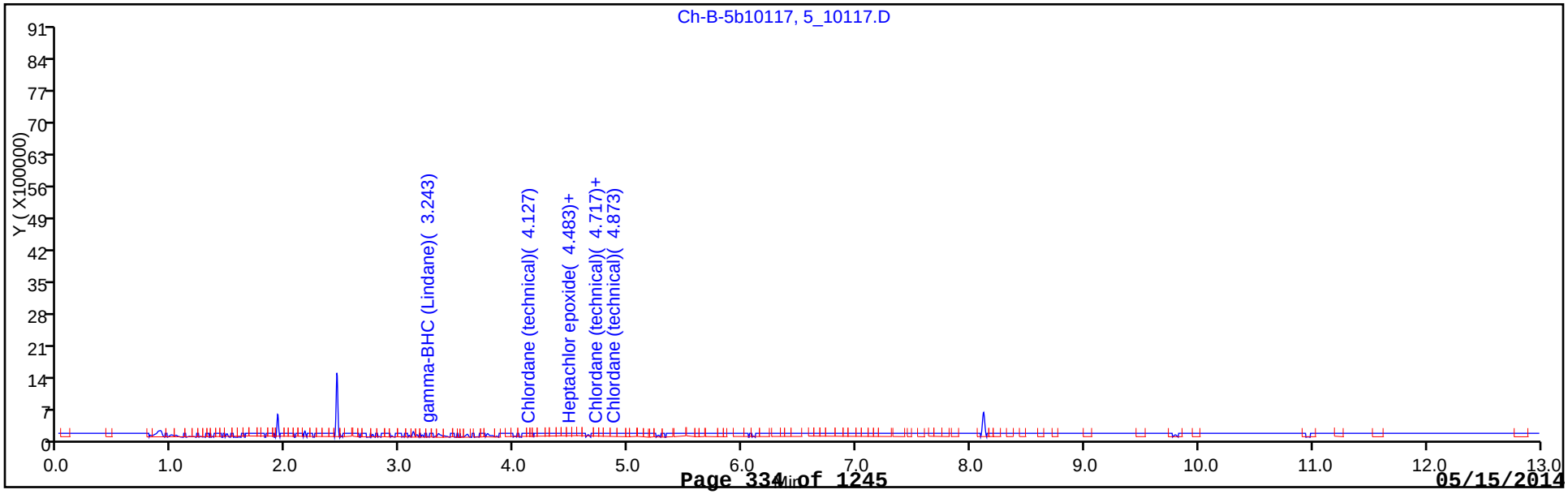
Data File: \\Bufchrom\ChromData\HP6890-05\20140509-31941.b\5_10117.D

Injection Date:	09-May-2014 12:07:41	Instrument ID:	HP6890-5	Operator ID:	buftchrom
Lims ID:	480-58807-C-2-I	Lab Sample ID:	480-58807-2	Worklist Smp#:	11
Client ID:	P1-2(Sed)				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8081-5	Limit Group:	GC - 8081B ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1

SDG No.:

Client Sample ID: P2-1(Sed) Lab Sample ID: 480-58807-3

Matrix: Solid (TCLP) Lab File ID: 5_10118.D

Analysis Method: 8081B Date Collected: 04/25/2014 00:00

Extraction Method: 3510C Date Extracted: 05/08/2014 07:12

Sample wt/vol: 250(mL) Date Analyzed: 05/09/2014 12:25

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: RTX-CLPI ID: 0.53(mm)

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

Analysis Batch No.: 181145 Units: mg/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	57		20-120
877-09-8	Tetrachloro-m-xylene	61		36-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-05\20140509-31941.b\5_10118.D
Lims ID: 480-58807-B-3-K Lab Sample ID: 480-58807-3
Client ID: P2-1(Sed)
Sample Type: Client
Inject. Date: 09-May-2014 12:25:12 ALS Bottle#: 0 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, CN10520009
Operator ID: buftchrom Instrument ID: HP6890-5

Method: \\Bufchrom\ChromData\HP6890-05\20140509-31941.b\8081-5.m
Limit Group: GC - 8081B ICAL
Last Update: 12-May-2014 12:38:04 Calib Date: 27-Mar-2014 19:29:41
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP6890-05\20140326-30487.b\5__7098.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK027

First Level Reviewer: WolfL Date: 12-May-2014 12:22:33

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Flags
$ 1 Tetrachloro-m-xylene						
1	2.103	2.103	0.000	875334	0.0122	
2	2.443	2.443	0.000	1459184	0.0161	
					RPD = 27.51	
$ 2 DCB Decachlorobiphenyl						
1	7.120	7.117	0.003	893092	0.0113	
2	8.117	8.113	0.004	1059978	0.0151	
					RPD = 28.45	

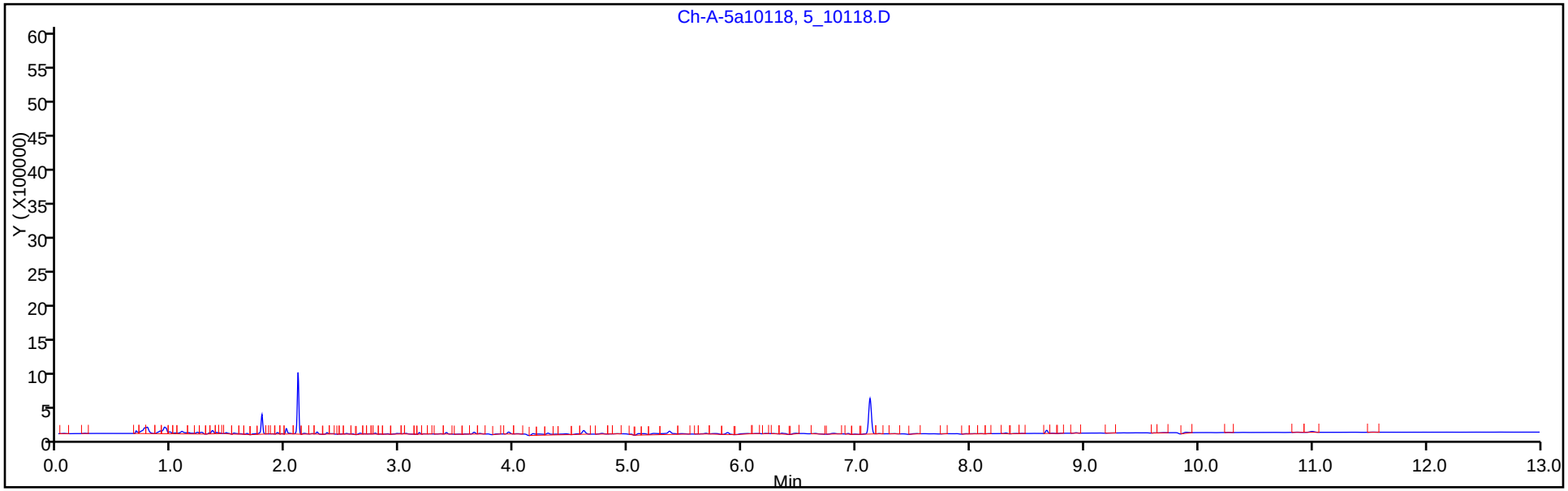
Report Date: 12-May-2014 12:38:19 Chrom Revision: 2.2 14-Apr-2014 13:40:08

TestAmerica Buffalo

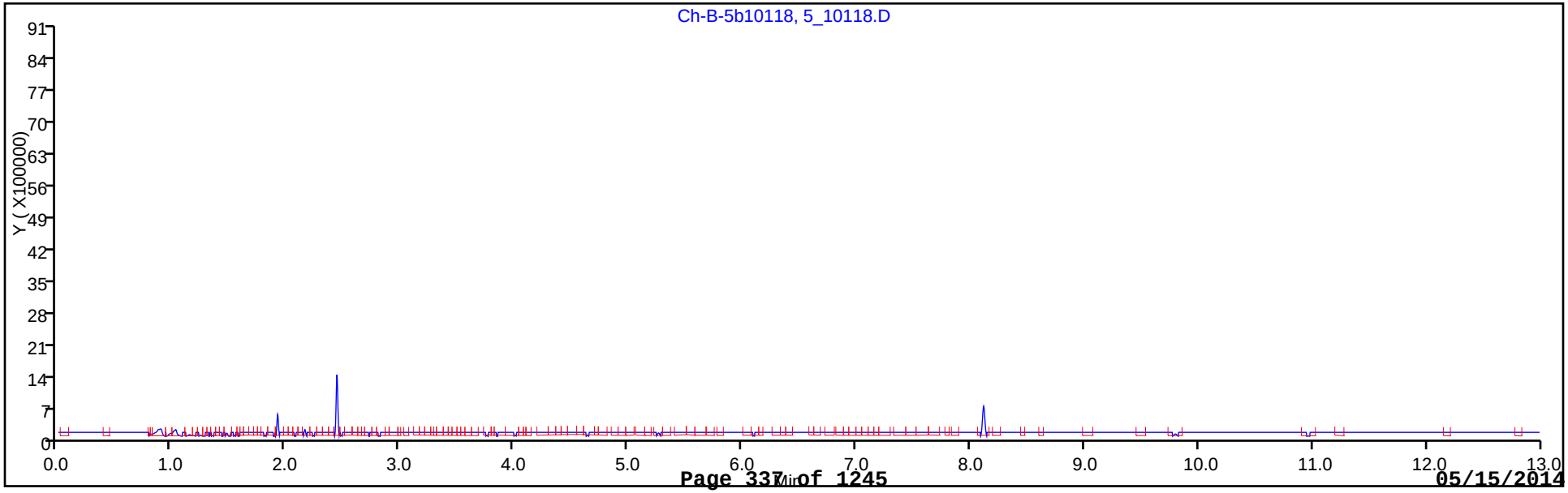
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Injection Date:	09-May-2014 12:25:12	Instrument ID:	HP6890-5	Operator ID:	buftchrom
Lims ID:	480-58807-B-3-K	Lab Sample ID:	480-58807-3	Worklist Smp#:	12
Client ID:	P2-1(Sed)				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8081-5	Limit Group:	GC - 8081B ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1

SDG No.:

Client Sample ID: P2-1(Sed) Lab Sample ID: 480-58807-3

Matrix: Solid (TCLP) Lab File ID: 5_10118.D

Analysis Method: 8081B Date Collected: 04/25/2014 00:00

Extraction Method: 3510C Date Extracted: 05/08/2014 07:12

Sample wt/vol: 250(mL) Date Analyzed: 05/09/2014 12:25

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: RTX-CLPII ID: 0.53(mm)

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

Analysis Batch No.: 181145 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
57-74-9	Chlordane (technical)	ND		0.0020	0.000029
72-20-8	Endrin	ND		0.00020	0.000014
58-89-9	gamma-BHC (Lindane)	ND		0.00020	0.0000060
76-44-8	Heptachlor	ND		0.00020	0.0000085
1024-57-3	Heptachlor epoxide	ND		0.00020	0.0000053
72-43-5	Methoxychlor	ND		0.00020	0.000014
8001-35-2	Toxaphene	ND		0.0020	0.00012

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	75		20-120
877-09-8	Tetrachloro-m-xylene	81		36-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-05\20140509-31941.b\5_10118.D
Lims ID: 480-58807-B-3-K Lab Sample ID: 480-58807-3
Client ID: P2-1(Sed)
Sample Type: Client
Inject. Date: 09-May-2014 12:25:12 ALS Bottle#: 0 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, CN10520009
Operator ID: buftchrom Instrument ID: HP6890-5

Method: \\Bufchrom\ChromData\HP6890-05\20140509-31941.b\8081-5.m
Limit Group: GC - 8081B ICAL
Last Update: 12-May-2014 12:38:04 Calib Date: 27-Mar-2014 19:29:41
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP6890-05\20140326-30487.b\5__7098.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK027

First Level Reviewer: WolfL Date: 12-May-2014 12:22:33

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Flags
$ 1 Tetrachloro-m-xylene						
1	2.103	2.103	0.000	875334	0.0122	
2	2.443	2.443	0.000	1459184	0.0161	
					RPD = 27.51	
$ 2 DCB Decachlorobiphenyl						
1	7.120	7.117	0.003	893092	0.0113	
2	8.117	8.113	0.004	1059978	0.0151	
					RPD = 28.45	

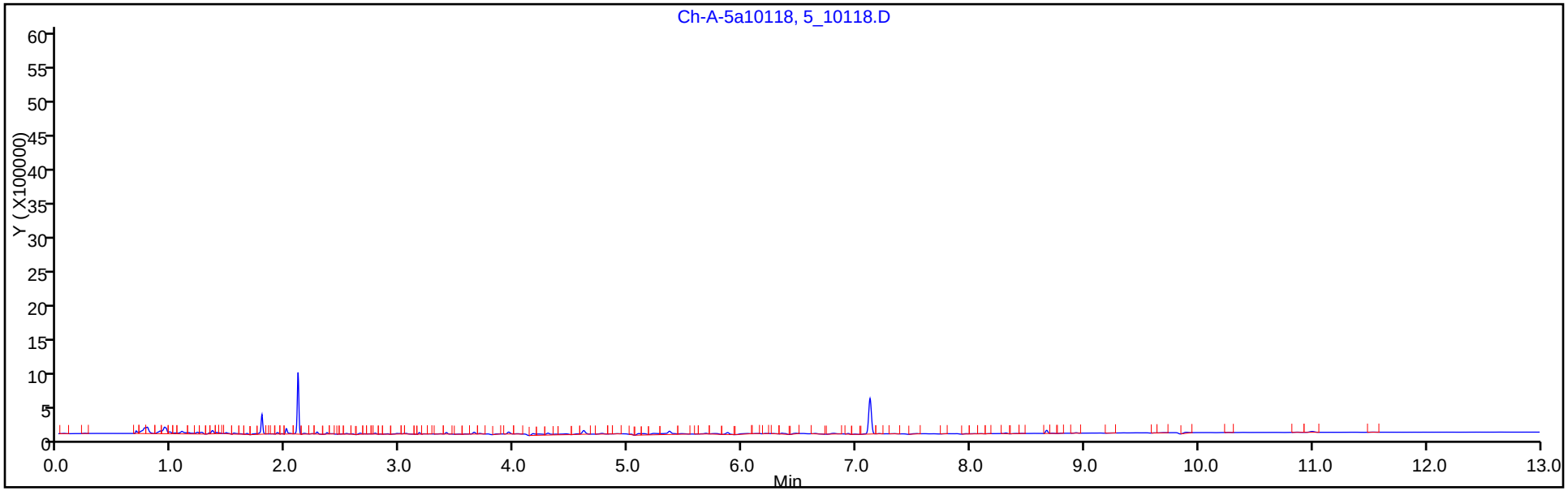
Report Date: 12-May-2014 12:38:19 Chrom Revision: 2.2 14-Apr-2014 13:40:08

TestAmerica Buffalo

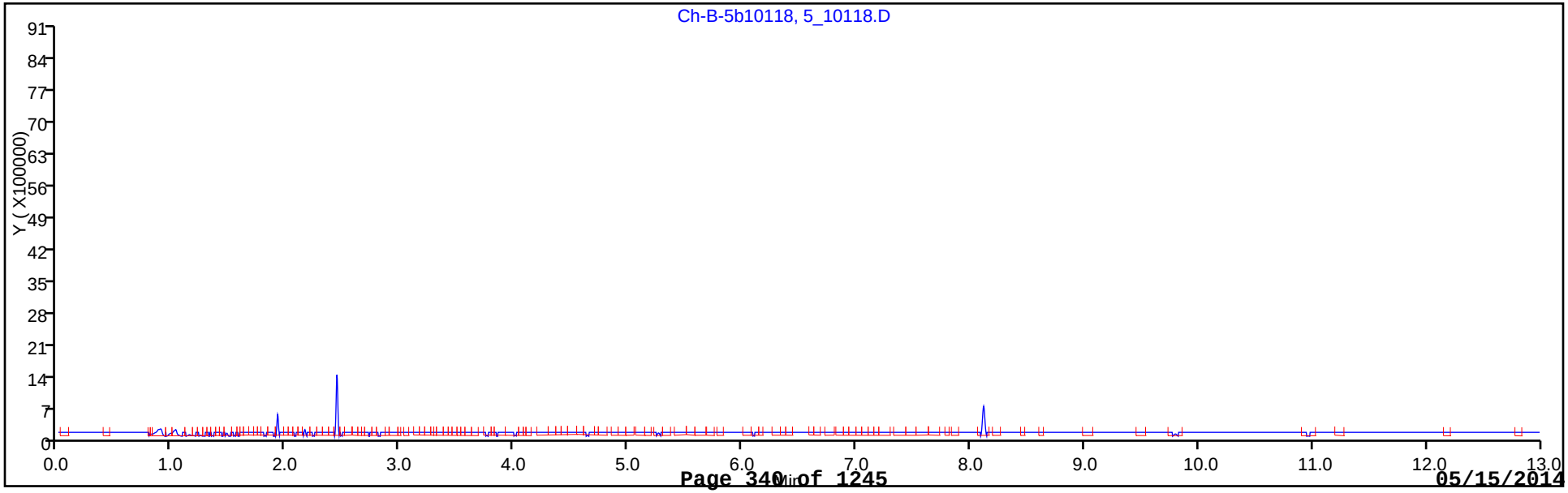
Data File: \\Bufchrom\ChromData\HP6890-05\20140509-31941.b\5_10118.D

Injection Date:	09-May-2014 12:25:12	Instrument ID:	HP6890-5	Operator ID:	buftchrom
Lims ID:	480-58807-B-3-K	Lab Sample ID:	480-58807-3	Worklist Smp#:	12
Client ID:	P2-1(Sed)				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8081-5	Limit Group:	GC - 8081B ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1

SDG No.:

Client Sample ID: P2-2(Sed) Lab Sample ID: 480-58807-4

Matrix: Solid (TCLP) Lab File ID: 5_10119.D

Analysis Method: 8081B Date Collected: 04/25/2014 00:00

Extraction Method: 3510C Date Extracted: 05/08/2014 07:12

Sample wt/vol: 250(mL) Date Analyzed: 05/09/2014 12:42

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: RTX-CLPI ID: 0.53(mm)

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

Analysis Batch No.: 181145 Units: mg/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	62		20-120
877-09-8	Tetrachloro-m-xylene	63		36-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-05\20140509-31941.b\5_10119.D
Lims ID: 480-58807-C-4-K Lab Sample ID: 480-58807-4
Client ID: P2-2(Sed)
Sample Type: Client
Inject. Date: 09-May-2014 12:42:55 ALS Bottle#: 0 Worklist Smp#: 13
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, CN10520009
Operator ID: buftchrom Instrument ID: HP6890-5

Method: \\Bufchrom\ChromData\HP6890-05\20140509-31941.b\8081-5.m
Limit Group: GC - 8081B ICAL
Last Update: 12-May-2014 12:38:04 Calib Date: 27-Mar-2014 19:29:41
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP6890-05\20140326-30487.b\5__7098.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK027

First Level Reviewer: WolfL Date: 12-May-2014 12:23:04

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Flags
$ 1 Tetrachloro-m-xylene						
1	2.107	2.103	0.004	909086	0.0127	
2	2.447	2.443	0.004	1513894	0.0167	
					RPD = 27.59	
$ 2 DCB Decachlorobiphenyl						
1	7.123	7.117	0.006	986388	0.0124	
2	8.120	8.113	0.007	1123981	0.0160	
					RPD = 25.19	

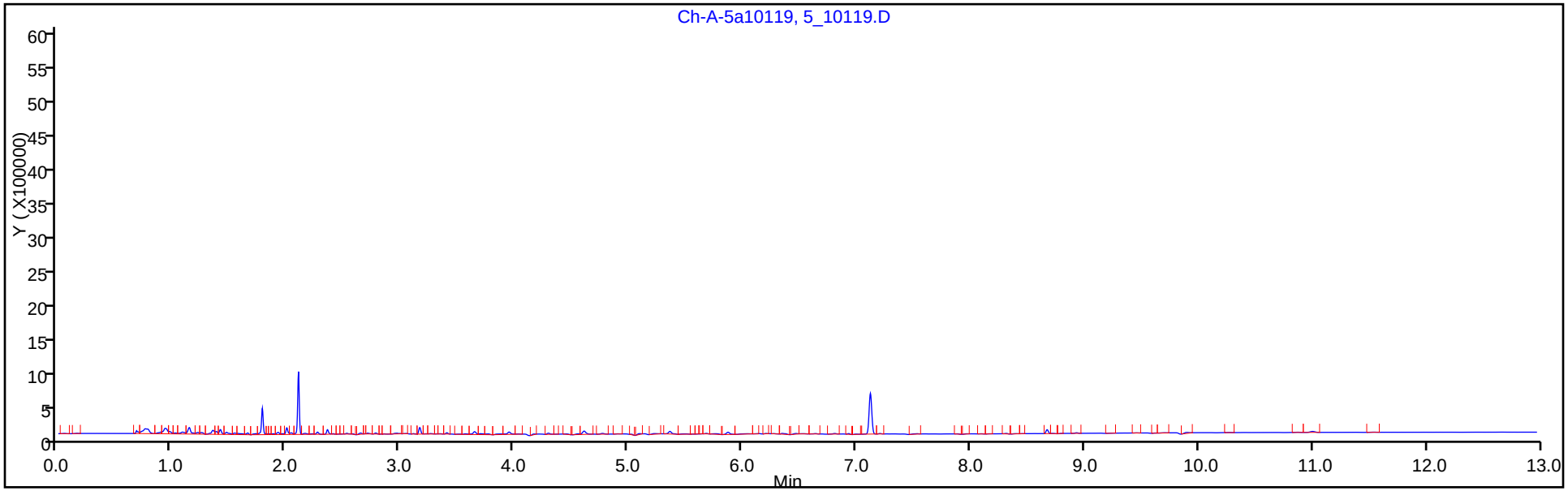
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TestAmerica Buffalo

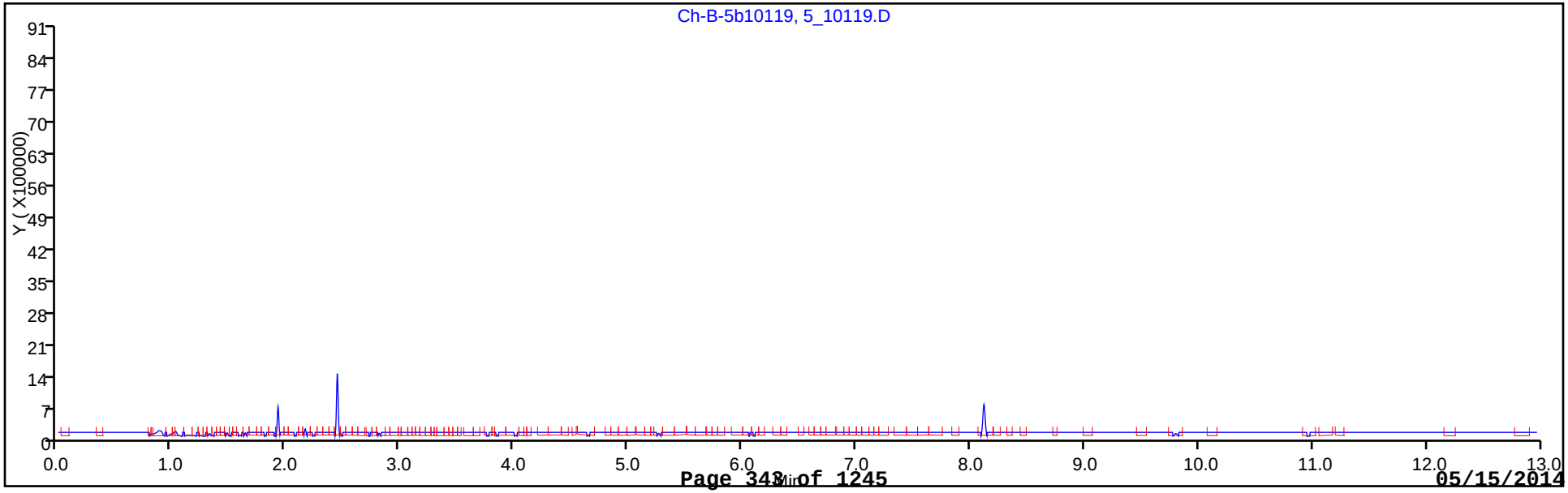
Data File: \\Bufchrom\ChromData\HP6890-05\20140509-31941.b\5_10119.D

Injection Date:	09-May-2014 12:42:55	Instrument ID:	HP6890-5	Operator ID:	buftchrom
Lims ID:	480-58807-C-4-K	Lab Sample ID:	480-58807-4	Worklist Smp#:	13
Client ID:	P2-2(Sed)				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8081-5	Limit Group:	GC - 8081B ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1

SDG No.:

Client Sample ID: P2-2(Sed) Lab Sample ID: 480-58807-4

Matrix: Solid (TCLP) Lab File ID: 5_10119.D

Analysis Method: 8081B Date Collected: 04/25/2014 00:00

Extraction Method: 3510C Date Extracted: 05/08/2014 07:12

Sample wt/vol: 250(mL) Date Analyzed: 05/09/2014 12:42

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: RTX-CLPII ID: 0.53(mm)

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

Analysis Batch No.: 181145 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
57-74-9	Chlordane (technical)	ND		0.0020	0.000029
72-20-8	Endrin	ND		0.00020	0.000014
58-89-9	gamma-BHC (Lindane)	ND		0.00020	0.0000060
76-44-8	Heptachlor	ND		0.00020	0.0000085
1024-57-3	Heptachlor epoxide	ND		0.00020	0.0000053
72-43-5	Methoxychlor	ND		0.00020	0.000014
8001-35-2	Toxaphene	ND		0.0020	0.00012

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	80		20-120
877-09-8	Tetrachloro-m-xylene	84		36-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-05\20140509-31941.b\5_10119.D
Lims ID: 480-58807-C-4-K Lab Sample ID: 480-58807-4
Client ID: P2-2(Sed)
Sample Type: Client
Inject. Date: 09-May-2014 12:42:55 ALS Bottle#: 0 Worklist Smp#: 13
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, CN10520009
Operator ID: buftchrom Instrument ID: HP6890-5

Method: \\Bufchrom\ChromData\HP6890-05\20140509-31941.b\8081-5.m
Limit Group: GC - 8081B ICAL
Last Update: 12-May-2014 12:38:04 Calib Date: 27-Mar-2014 19:29:41
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP6890-05\20140326-30487.b\5__7098.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK027

First Level Reviewer: WolfL Date: 12-May-2014 12:23:04

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Flags
$ 1 Tetrachloro-m-xylene						
1	2.107	2.103	0.004	909086	0.0127	
2	2.447	2.443	0.004	1513894	0.0167	
					RPD = 27.59	
$ 2 DCB Decachlorobiphenyl						
1	7.123	7.117	0.006	986388	0.0124	
2	8.120	8.113	0.007	1123981	0.0160	
					RPD = 25.19	

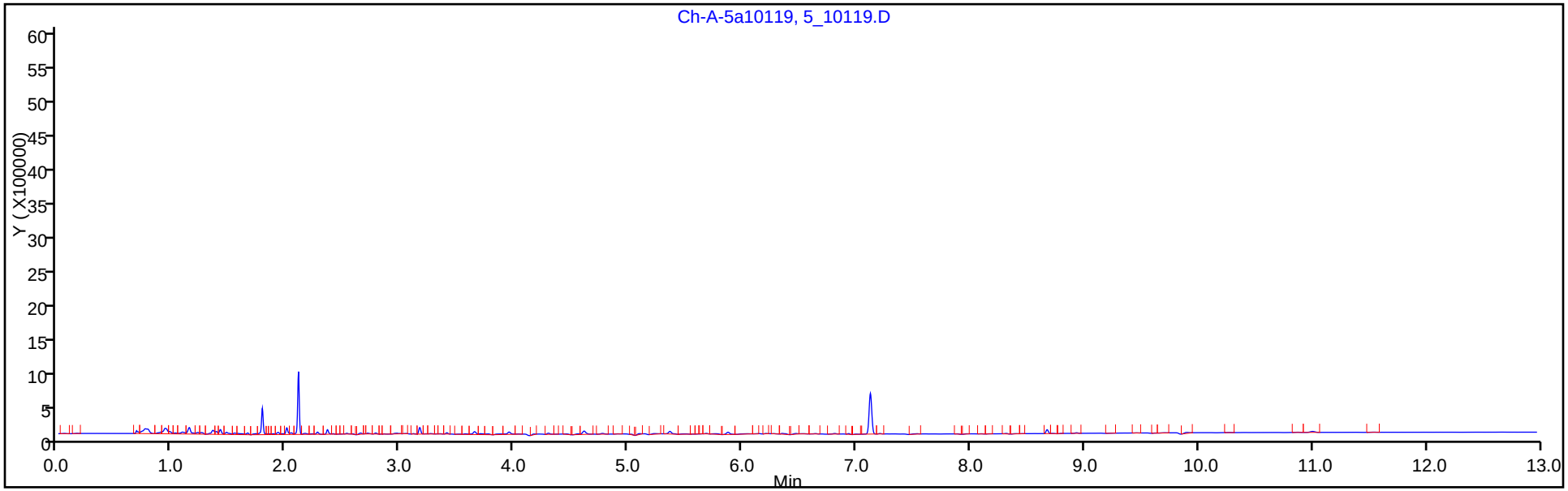
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TestAmerica Buffalo

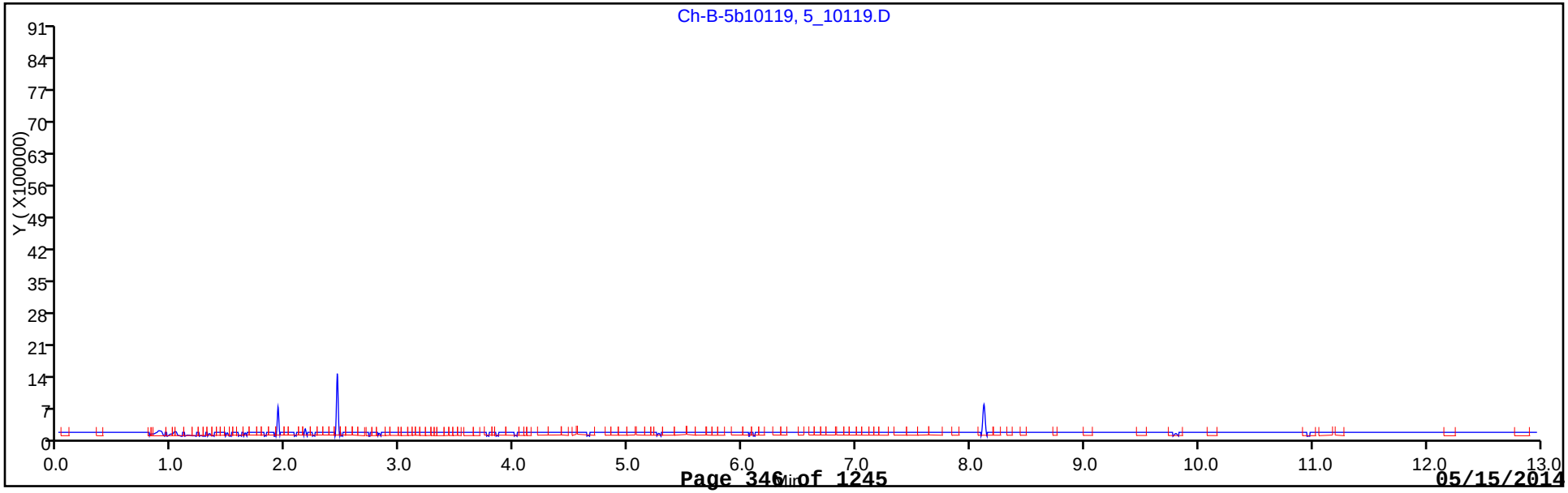
Data File: \\Bufchrom\ChromData\HP6890-05\20140509-31941.b\5_10119.D

Injection Date:	09-May-2014 12:42:55	Instrument ID:	HP6890-5	Operator ID:	buftchrom
Lims ID:	480-58807-C-4-K	Lab Sample ID:	480-58807-4	Worklist Smp#:	13
Client ID:	P2-2(Sed)				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8081-5	Limit Group:	GC - 8081B ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1 Analy Batch No.: 172072

SDG No.:

Instrument ID: HP6890-5 GC Column: RTX-CLPI ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/26/2014 13:21 Calibration End Date: 03/26/2014 14:32 Calibration ID: 17844

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 480-172072/10	5__7077.D
Level 2	STD 480-172072/9	5__7076.D
Level 3	STD 480-172072/8	5__7075.D
Level 4	STD 480-172072/7	5__7074.D
Level 5	STD 480-172072/6	5__7073.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5						RT WINDOW	AVG RT
alpha-BHC	2.430	2.430	2.430	2.430	2.430						2.400 - 2.460	2.430
gamma-BHC (Lindane)	2.650	2.650	2.650	2.653	2.653						2.620 - 2.680	2.651
beta-BHC	2.713	2.713	2.713	2.713	2.717						2.683 - 2.743	2.714
delta-BHC	2.843	2.843	2.843	2.847	2.847						2.813 - 2.873	2.845
Heptachlor	3.007	3.010	3.007	3.010	3.010						2.977 - 3.037	3.009
Aldrin	3.250	3.250	3.250	3.253	3.253						3.220 - 3.280	3.251
Heptachlor epoxide	3.787	3.787	3.787	3.790	3.790						3.757 - 3.817	3.788
gamma-Chlordane	3.903	3.907	3.903	3.907	3.907						3.873 - 3.933	3.905
alpha-Chlordane	4.033	4.037	4.033	4.037	4.037						4.003 - 4.063	4.035
4,4'-DDE	4.133	4.133	4.130	4.133	4.133						4.100 - 4.160	4.132
Endosulfan I	4.160	4.163	4.160	4.163	4.163						4.130 - 4.190	4.162
Dieldrin	4.403	4.403	4.403	4.407	4.407						4.373 - 4.433	4.405
Endrin	4.633	4.633	4.633	4.637	4.637						4.603 - 4.663	4.635
4,4'-DDD	4.737	4.740	4.737	4.737	4.740						4.707 - 4.767	4.738
Endosulfan II	4.860	4.863	4.860	4.863	4.863						4.830 - 4.890	4.862
4,4'-DDT	5.023	5.023	5.023	5.027	5.027						4.993 - 5.053	5.025
Endrin aldehyde	5.293	5.293	5.290	5.293	5.297						5.260 - 5.320	5.293
Methoxychlor	5.547	5.547	5.547	5.550	5.550						5.517 - 5.577	5.548
Endosulfan sulfate	5.733	5.733	5.733	5.737	5.737						5.703 - 5.763	5.735
Endrin ketone	6.010	6.010	6.007	6.010	6.013						5.977 - 6.037	6.010
Tetrachloro-m-xylene	2.067	2.067	2.067	2.067	2.067						2.037 - 2.097	2.067
DCB Decachlorobiphenyl	7.060	7.057	7.057	7.063	7.063						7.027 - 7.087	7.060

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1 Analy Batch No.: 172072

SDG No.:

Instrument ID: HP6890-5 GC Column: RTX-CLPI ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/26/2014 13:21 Calibration End Date: 03/26/2014 14:32 Calibration ID: 17844

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 480-172072/10	5__7077.D
Level 2	STD 480-172072/9	5__7076.D
Level 3	STD 480-172072/8	5__7075.D
Level 4	STD 480-172072/7	5__7074.D
Level 5	STD 480-172072/6	5__7073.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 3	LVL 4		B	M1	M2								
alpha-BHC	102410800 136385313	104485900	124674560	131399090	Lin1	-223870.46	134945077							0.9990		0.9900
gamma-BHC (Lindane)	94287400 120879213	94803200	111744420	117284230	Lin1	-179524.48	119887674							0.9990		0.9900
beta-BHC	40690000 44938607	39370200	42504640	43944920	Lin1	-33091.912	44517862.1							1.0000		0.9900
delta-BHC	93454800 122964780	94633100	112751820	119074240	Lin1	-197530.93	121876164							0.9990		0.9900
Heptachlor	87456000 95645027	87305900	95771860	95541010	Lin1	-56227.009	96129911.2							1.0000		0.9900
Aldrin	76302400 90369113	77809500	88770940	89921080	Lin1	-91655.022	90806044.8							1.0000		0.9900
Heptachlor epoxide	88488400 86349047	83456700	88950460	87370590	Lin1	-2047.5392	87060907.0							1.0000		0.9900
gamma-Chlordane	96013400 106311587	89684200	101425860	104473390	Lin1	-90934.453	105704607							0.9990		0.9900
alpha-Chlordane	93430800 102537640	88486100	98839640	101141650	Lin1	-78306.645	102159813							1.0000		0.9900
4,4'-DDE	79220400 99051547	79482600	97210580	100105770	Lin1	-138821.68	100361506							1.0000		0.9900
Endosulfan I	86935600 84068927	86908800	87255140	83700210	Lin1	22939.1505	84229165.9							1.0000		0.9900
Dieldrin	80149600 89159227	81965500	91156100	90302850	Lin1	-56766.229	90368914.7							1.0000		0.9900
Endrin	64674000 71709967	67337500	74424240	70743700	Lin1	-35088.796	72140526.9							1.0000		0.9900
4,4'-DDD	58115200 71443987	59716800	70337700	71252570	Lin1	-86484.258	71996524.7							1.0000		0.9900
Endosulfan II	67107600 69686733	66585500	73008940	71013710	Lin1	-19732.545	70809154.7							1.0000		0.9900

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

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1 Analy Batch No.: 172072

SDG No.:

Instrument ID: HP6890-5 GC Column: RTX-CLPI ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/26/2014 13:21 Calibration End Date: 03/26/2014 14:32 Calibration ID: 17844

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 3	LVL 4		B	M1	M2								
4,4'-DDT	60423200 79266953	68030700	76041800	80036300	Lin1	-108504.13	80065735.4							1.0000		0.9900
Endrin aldehyde	73754800 65664387	68778800	71456100	68781440	Lin1	36660.6527	67218621.4							0.9990		0.9900
Methoxychlor	45315400 41488647	45103600	43960140	42302620	Lin1	25635.8186	41907936.2							1.0000		0.9900
Endosulfan sulfate	90483400 86259247	87973500	92246740	88452300	Lin1	20515.1610	87701683.2							0.9990		0.9900
Endrin ketone	109532000 99926867	106310800	108993500	104166640	Lin1	52834.1036	102228465							0.9990		0.9900
Tetrachloro-m-xylene	67162000 78423313	66551500	74447880	76714830	Lin1	-78397.843	77938692.7							1.0000		0.9900
DCB Decachlorobiphenyl	84974600 84974613	65098400	79080700	88375320	Lin1	-77476.070	85717448.7							0.9970		0.9900

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

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1 Analy Batch No.: 172072

SDG No.:

Instrument ID: HP6890-5 GC Column: RTX-CLPI ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/26/2014 13:21 Calibration End Date: 03/26/2014 14:32 Calibration ID: 17844

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 480-172072/10	5__7077.D
Level 2	STD 480-172072/9	5__7076.D
Level 3	STD 480-172072/8	5__7075.D
Level 4	STD 480-172072/7	5__7074.D
Level 5	STD 480-172072/6	5__7073.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
		LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
alpha-BHC	Lin1	512054	1044859	6233728	13139909	20457797	0.00500	0.0100	0.0500	0.100	0.150
gamma-BHC (Lindane)	Lin1	471437	948032	5587221	11728423	18131882	0.00500	0.0100	0.0500	0.100	0.150
beta-BHC	Lin1	203450	393702	2125232	4394492	6740791	0.00500	0.0100	0.0500	0.100	0.150
delta-BHC	Lin1	467274	946331	5637591	11907424	18444717	0.00500	0.0100	0.0500	0.100	0.150
Heptachlor	Lin1	437280	873059	4788593	9554101	14346754	0.00500	0.0100	0.0500	0.100	0.150
Aldrin	Lin1	381512	778095	4438547	8992108	13555367	0.00500	0.0100	0.0500	0.100	0.150
Heptachlor epoxide	Lin1	442442	834567	4447523	8737059	12952357	0.00500	0.0100	0.0500	0.100	0.150
gamma-Chlordane	Lin1	480067	896842	5071293	10447339	15946738	0.00500	0.0100	0.0500	0.100	0.150
alpha-Chlordane	Lin1	467154	884861	4941982	10114165	15380646	0.00500	0.0100	0.0500	0.100	0.150
4,4'-DDE	Lin1	396102	794826	4860529	10010577	14857732	0.00500	0.0100	0.0500	0.100	0.150
Endosulfan I	Lin1	434678	869088	4362757	8370021	12610339	0.00500	0.0100	0.0500	0.100	0.150
Dieldrin	Lin1	400748	819655	4557805	9030285	13373884	0.00500	0.0100	0.0500	0.100	0.150
Endrin	Lin1	323370	673375	3721212	7074370	10756495	0.00500	0.0100	0.0500	0.100	0.150
4,4'-DDD	Lin1	290576	597168	3516885	7125257	10716598	0.00500	0.0100	0.0500	0.100	0.150
Endosulfan II	Lin1	335538	665855	3650447	7101371	10453010	0.00500	0.0100	0.0500	0.100	0.150
4,4'-DDT	Lin1	302116	680307	3802090	8003630	11890043	0.00500	0.0100	0.0500	0.100	0.150
Endrin aldehyde	Lin1	368774	687788	3572805	6878144	9849658	0.00500	0.0100	0.0500	0.100	0.150
Methoxychlor	Lin1	226577	451036	2198007	4230262	6223297	0.00500	0.0100	0.0500	0.100	0.150
Endosulfan sulfate	Lin1	452417	879735	4612337	8845230	12938887	0.00500	0.0100	0.0500	0.100	0.150
Endrin ketone	Lin1	547660	1063108	5449675	10416664	14989030	0.00500	0.0100	0.0500	0.100	0.150
Tetrachloro-m-xylene	Lin1	335810	665515	3722394	7671483	11763497	0.00500	0.0100	0.0500	0.100	0.150
DCB Decachlorobiphenyl	Lin1	424873	650984	3954035	8837532	12746192	0.00500	0.0100	0.0500	0.100	0.150

Curve Type Legend:
Lin1 = Linear 1/conc

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-05\20140326-30487.b\5__7073.D
Lims ID: std
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 26-Mar-2014 13:21:43 ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, None
Operator ID: buftchrom Instrument ID: HP6890-5
Sublist: chrom-8081-5*sub5

Method: \\Bufchrom\ChromData\HP6890-05\20140326-30487.b\8081-5.m
Limit Group: GC - 8081B ICAL
Last Update: 28-Mar-2014 10:55:56 Calib Date: 27-Mar-2014 19:29:41
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP6890-05\20140326-30487.b\5__7098.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK034

First Level Reviewer: WolfL Date: 27-Mar-2014 08:13:30

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	On-Col Amt ng/ul	Flags
$ 1 Tetrachloro-m-xylene						
1	2.067	2.067	0.0	11763497	0.1519	
2	2.407	2.407	0.0	14067547	0.1507	
					RPD = 0.79	
$ 2 DCB Decachlorobiphenyl						
1	7.063	7.057	0.006	12746192	0.1496	
2	8.063	8.060	0.003	10600167	0.1507	
					RPD = 0.75	
4 alpha-BHC						
1	2.430	2.430	0.0	20457797	0.1533	
2	2.877	2.873	0.004	23696445	0.1511	
					RPD = 1.39	
6 gamma-BHC (Lindane)						
1	2.653	2.650	0.003	18131882	0.1527	
2	3.173	3.173	0.0	21244006	0.1511	
					RPD = 1.08	
7 beta-BHC						
1	2.717	2.713	0.004	6740791	0.1522	
2	3.240	3.240	0.0	8189015	0.1511	
					RPD = 0.73	
8 delta-BHC						
1	2.847	2.843	0.004	18444717	0.1530	
2	3.507	3.503	0.004	21615524	0.1511	
					RPD = 1.21	
9 Heptachlor						
1	3.010	3.007	0.003	14346754	0.1498	
2	3.587	3.583	0.004	19717617	0.1491	
					RPD = 0.52	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	On-Col Amt ng/ul	Flags
10 Aldrin						
1	3.253	3.250	0.003	13555367	0.1503	
2	3.900	3.897	0.003	19540668	0.1498	
					RPD = 0.32	
13 Heptachlor epoxide						
1	3.790	3.787	0.003	12952357	0.1488	
2	4.470	4.467	0.003	16373157	0.1493	
					RPD = 0.34	
14 gamma-Chlordane						
1	3.907	3.903	0.004	15946738	0.1517	
2	4.667	4.663	0.004	18205856	0.1509	
					RPD = 0.51	
15 alpha-Chlordane						
1	4.037	4.033	0.004	15380646	0.1513	
2	4.817	4.813	0.004	16940746	0.1507	
					RPD = 0.40	
16 4,4'-DDE						
1	4.133	4.130	0.003	14857732	0.1494	
2	4.997	4.993	0.004	16321534	0.1507	
					RPD = 0.88	
18 Endosulfan I						
1	4.163	4.160	0.003	12610339	0.1494	
2	4.873	4.870	0.003	14677486	0.1497	
					RPD = 0.14	
19 Dieldrin						
1	4.407	4.403	0.004	13373884	0.1486	
2	5.153	5.150	0.003	16813556	0.1500	
					RPD = 0.95	
20 Endrin						
1	4.637	4.633	0.004	10756495	0.1496	
2	5.457	5.453	0.004	13346038	0.1506	
					RPD = 0.67	
22 4,4'-DDD						
1	4.740	4.737	0.003	10716598	0.1501	
2	5.587	5.583	0.004	13475809	0.1511	
					RPD = 0.68	
23 Endosulfan II						
1	4.863	4.860	0.003	10453010	0.1479	
2	5.670	5.667	0.003	13575798	0.1500	
					RPD = 1.42	
26 4,4'-DDT						
1	5.027	5.023	0.004	11890043	0.1499	
2	5.907	5.903	0.004	14112347	0.1520	
					RPD = 1.43	
28 Endrin aldehyde						
1	5.297	5.290	0.007	9849658	0.1460	
2	6.007	6.003	0.004	10296402	0.1487	
					RPD = 1.85	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	On-Col Amt ng/ul	Flags
29 Methoxychlor						
1	5.550	5.547	0.003	6223297	0.1479	
2	6.593	6.590	0.003	6170456	0.1513	
					RPD = 2.27	
30 Endosulfan sulfate						
1	5.737	5.733	0.004	12938887	0.1473	
2	6.290	6.287	0.003	12125309	0.1504	
					RPD = 2.06	
31 Endrin ketone						
1	6.013	6.007	0.006	14989030	0.1461	
2	6.813	6.810	0.003	13742732	0.1498	
					RPD = 2.52	
S 35 BHC, Total						
1					0.6111	
2					0.6044	
					RPD = 1.10	

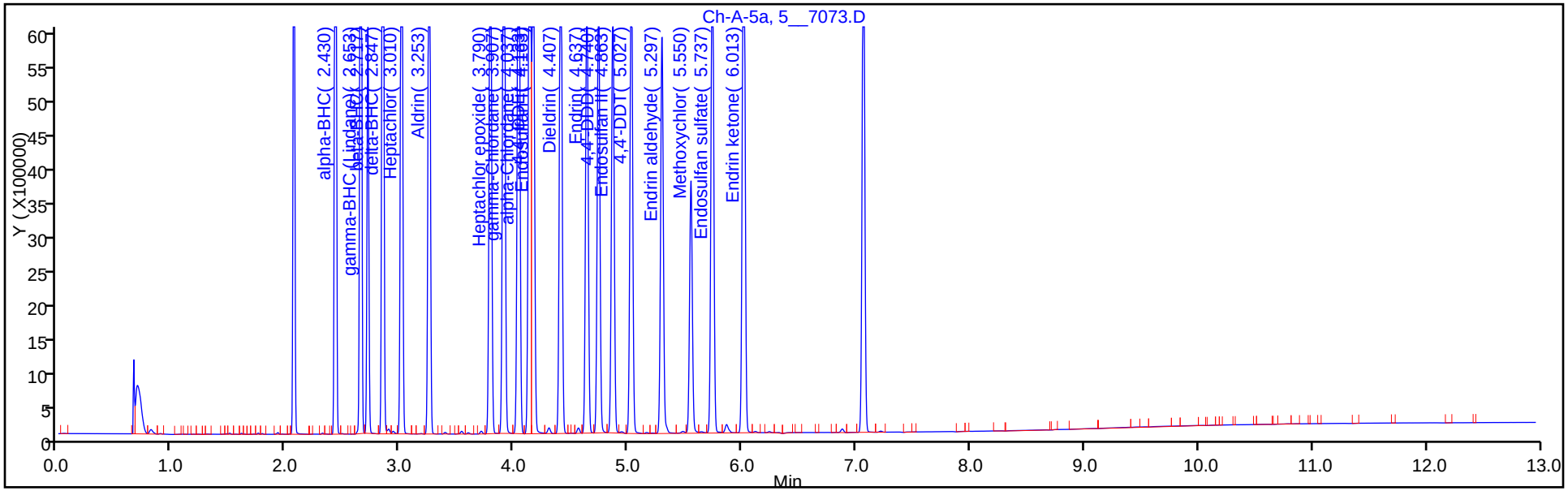
Report Date: 28-Mar-2014 10:55:57 Chrom Revision: 2.2 12-Mar-2014 11:19:24

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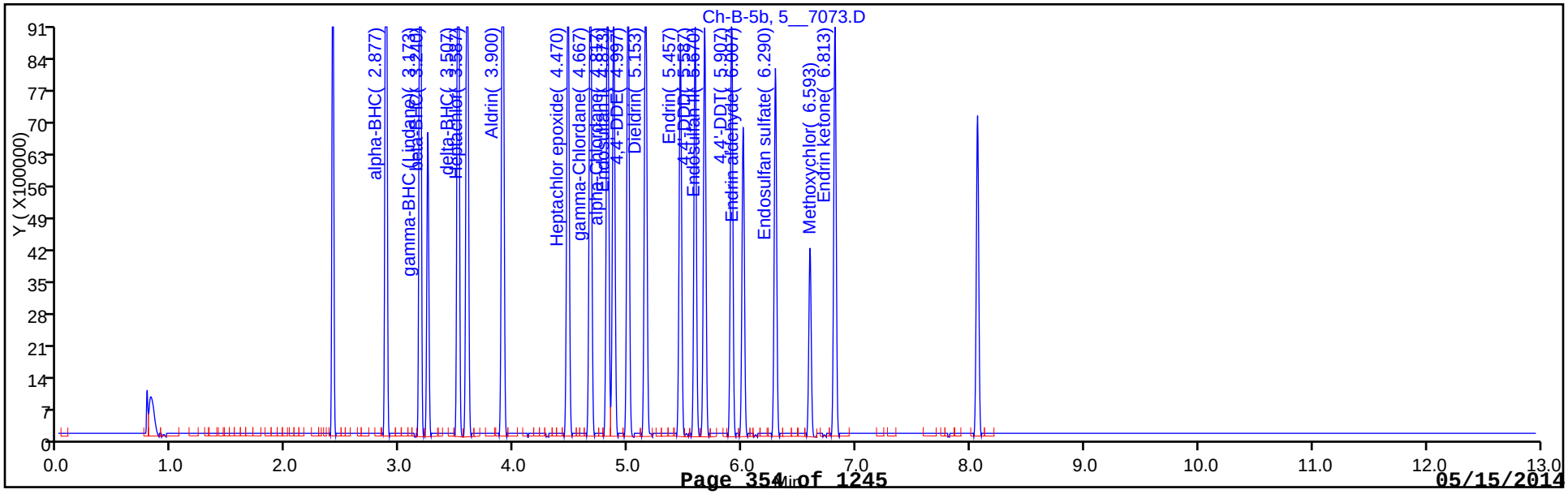
Data File: \\Bufchrom\ChromData\HP6890-05\20140326-30487.b\5__7073.D

Injection Date:	26-Mar-2014 13:21:43	Instrument ID:	HP6890-5	Operator ID:	buftchrom
Lims ID:	std			Worklist Smp#:	6
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8081-5	Limit Group:	GC - 8081B ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-05\20140326-30487.b\5__7074.D
Lims ID: std
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 26-Mar-2014 13:39:19 ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, None
Operator ID: buftchrom Instrument ID: HP6890-5
Sublist: chrom-8081-5*sub5

Method: \\Bufchrom\ChromData\HP6890-05\20140326-30487.b\8081-5.m
Limit Group: GC - 8081B ICAL
Last Update: 28-Mar-2014 10:55:58 Calib Date: 27-Mar-2014 19:29:41
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP6890-05\20140326-30487.b\5__7098.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK034

First Level Reviewer: RudzG Date: 27-Mar-2014 10:00:44

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	On-Col Amt ng/ul	Flags
$ 1 Tetrachloro-m-xylene						
1	2.067	2.067	0.0	7671483	0.0994	
2	2.407	2.407	0.0	9298964	0.0998	
					RPD = 0.40	
$ 2 DCB Decachlorobiphenyl						
1	7.063	7.057	0.006	8837532	0.1040	
2	8.063	8.060	0.003	7023677	0.0999	
					RPD = 4.05	
4 alpha-BHC						
1	2.430	2.430	0.0	13139909	0.0990	
2	2.873	2.873	0.0	15579285	0.0997	
					RPD = 0.70	
6 gamma-BHC (Lindane)						
1	2.653	2.650	0.003	11728423	0.0993	
2	3.173	3.173	0.0	13982372	0.0998	
					RPD = 0.43	
7 beta-BHC						
1	2.713	2.713	0.0	4394492	0.0995	
2	3.240	3.240	0.0	5396307	0.0996	
					RPD = 0.18	
8 delta-BHC						
1	2.847	2.843	0.004	11907424	0.0993	
2	3.507	3.503	0.004	14217753	0.0997	
					RPD = 0.41	
9 Heptachlor						
1	3.010	3.007	0.003	9554101	0.1000	
2	3.587	3.583	0.004	13274110	0.1004	
					RPD = 0.47	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	On-Col Amt ng/ul	Flags
10 Aldrin						
1	3.253	3.250	0.003	8992108	0.1000	
2	3.897	3.897	0.0	13039638	0.1002	
					RPD = 0.12	
13 Heptachlor epoxide						
1	3.790	3.787	0.003	8737059	0.1004	
2	4.470	4.467	0.003	11007564	0.1005	
					RPD = 0.09	
14 gamma-Chlordane						
1	3.907	3.903	0.004	10447339	0.0997	
2	4.667	4.663	0.004	12003040	0.0998	
					RPD = 0.10	
15 alpha-Chlordane						
1	4.037	4.033	0.004	10114165	0.0998	
2	4.817	4.813	0.004	11186741	0.0997	
					RPD = 0.02	
16 4,4'-DDE						
1	4.133	4.130	0.003	10010577	0.1011	
2	4.997	4.993	0.004	10795520	0.1001	
					RPD = 1.03	
18 Endosulfan I						
1	4.163	4.160	0.003	8370021	0.0991	
2	4.870	4.870	0.0	9813105	0.1002	
					RPD = 1.10	
19 Dieldrin						
1	4.407	4.403	0.004	9030285	0.1006	
2	5.153	5.150	0.003	11187108	0.1001	
					RPD = 0.50	
20 Endrin						
1	4.637	4.633	0.004	7074370	0.0986	
2	5.457	5.453	0.004	8789895	0.0995	
					RPD = 0.93	
22 4,4'-DDD						
1	4.737	4.737	0.0	7125257	0.1002	
2	5.587	5.583	0.004	8872294	0.0998	
					RPD = 0.41	
23 Endosulfan II						
1	4.863	4.860	0.003	7101371	0.1006	
2	5.670	5.667	0.003	9030491	0.1000	
					RPD = 0.60	
26 4,4'-DDT						
1	5.027	5.023	0.004	8003630	0.1013	
2	5.907	5.903	0.004	9190858	0.0994	
					RPD = 1.87	
28 Endrin aldehyde						
1	5.293	5.290	0.003	6878144	0.1018	
2	6.007	6.003	0.004	6976290	0.1009	
					RPD = 0.89	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	On-Col Amt ng/ul	Flags
29 Methoxychlor						
1	5.550	5.547	0.003	4230262	0.1003	
2	6.593	6.590	0.003	4038390	0.0993	
					RPD = 1.08	
30 Endosulfan sulfate						
1	5.737	5.733	0.004	8845230	0.1006	
2	6.290	6.287	0.003	8037022	0.0999	
					RPD = 0.68	
31 Endrin ketone						
1	6.010	6.007	0.003	10416664	0.1014	
2	6.813	6.810	0.003	9202240	0.1005	
					RPD = 0.82	
S 35 BHC, Total						
1					0.3971	
2					0.3988	
					RPD = 0.43	

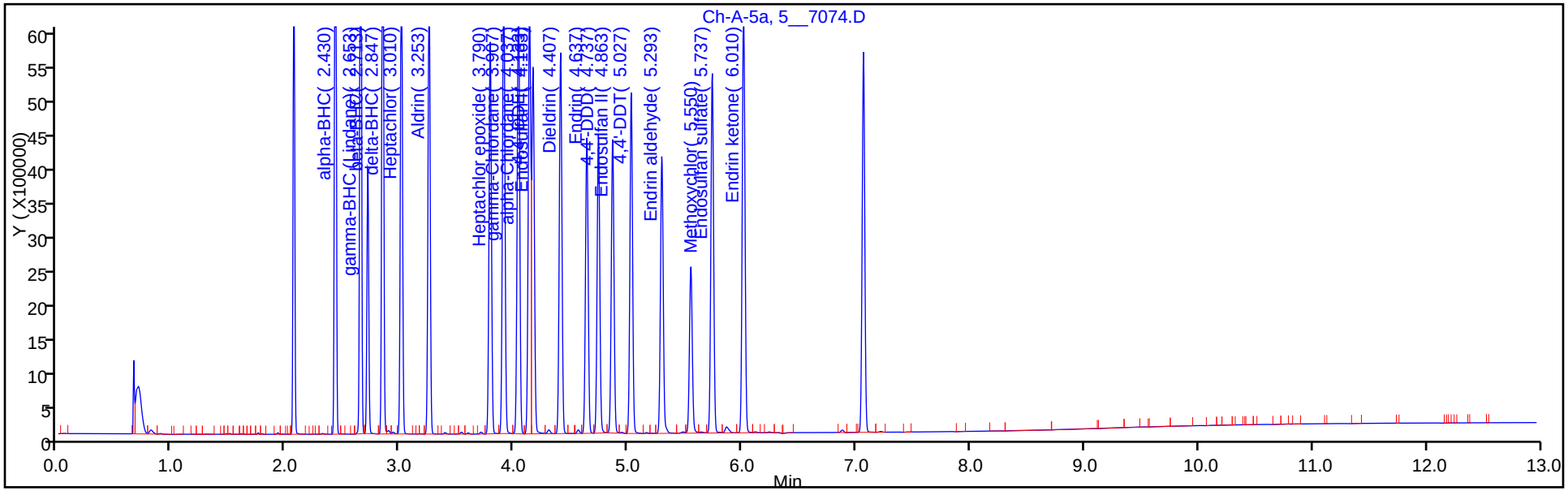
Report Date: 28-Mar-2014 10:55:59 Chrom Revision: 2.2 12-Mar-2014 11:19:24

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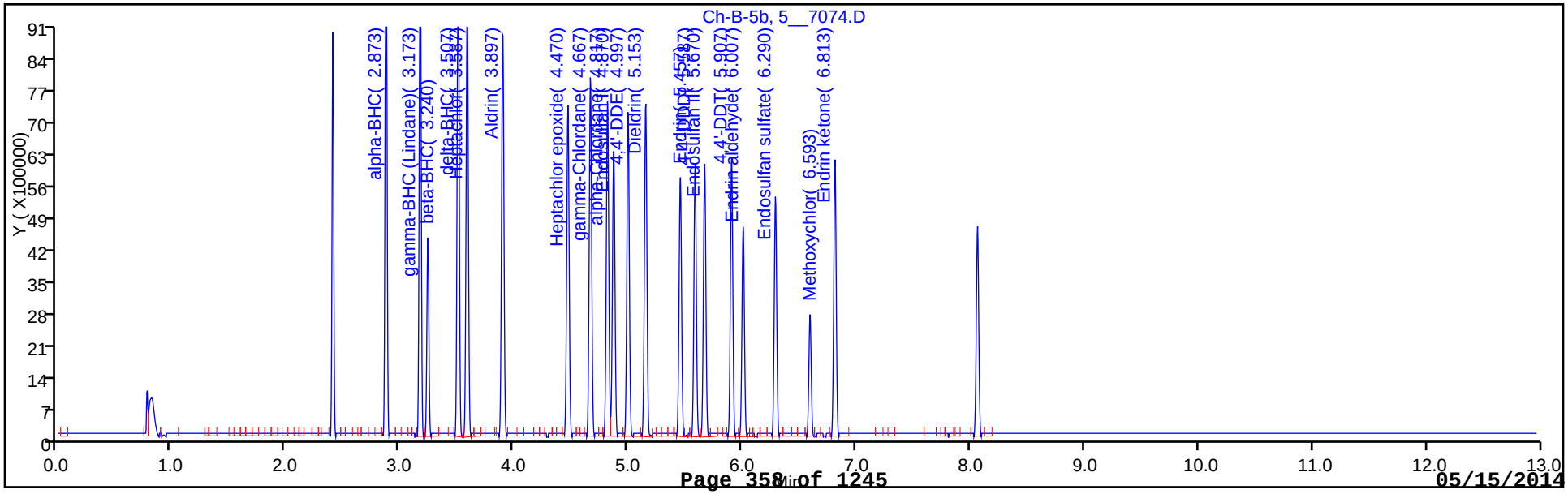
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Injection Date:	26-Mar-2014 13:39:19	Instrument ID:	HP6890-5	Operator ID:	buftchrom
Lims ID:	std			Worklist Smp#:	7
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8081-5	Limit Group:	GC - 8081B ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-05\20140326-30487.b\5__7075.D
Lims ID: std
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 26-Mar-2014 13:56:55 ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, None
Operator ID: buftchrom Instrument ID: HP6890-5
Sublist: chrom-8081-5*sub5

Method: \\Bufchrom\ChromData\HP6890-05\20140326-30487.b\8081-5.m
Limit Group: GC - 8081B ICAL
Last Update: 28-Mar-2014 10:56:03 Calib Date: 27-Mar-2014 19:29:41
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP6890-05\20140326-30487.b\5__7098.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK034

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	On-Col Amt ng/ul	Flags
$ 1 Tetrachloro-m-xylene						
1	2.067	2.067	0.0	3722394	0.0488	
2	2.407	2.407	0.0	4596371	0.0496	
					RPD = 1.76	
$ 2 DCB Decachlorobiphenyl						
1	7.057	7.057	0.0	3954035	0.0470	
2	8.060	8.060	0.0	3478287	0.0495	
					RPD = 5.04	
4 alpha-BHC						
1	2.430	2.430	0.0	6233728	0.0479	
2	2.873	2.873	0.0	7621793	0.0493	
					RPD = 3.05	
6 gamma-BHC (Lindane)						
1	2.650	2.650	0.0	5587221	0.0481	
2	3.173	3.173	0.0	6850031	0.0493	
					RPD = 2.51	
7 beta-BHC						
1	2.713	2.713	0.0	2125232	0.0485	
2	3.240	3.240	0.0	2670281	0.0494	
					RPD = 1.94	
8 delta-BHC						
1	2.843	2.843	0.0	5637591	0.0479	
2	3.503	3.503	0.0	6967773	0.0494	
					RPD = 3.05	
9 Heptachlor						
1	3.007	3.007	0.0	4788593	0.0504	
2	3.583	3.583	0.0	6683808	0.0507	
					RPD = 0.66	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	On-Col Amt ng/ul	Flags
10 Aldrin						
1	3.250	3.250	0.0	4438547	0.0499	
2	3.897	3.897	0.0	6502840	0.0502	
					RPD = 0.71	
13 Heptachlor epoxide						
1	3.787	3.787	0.0	4447523	0.0511	
2	4.467	4.467	0.0	5505651	0.0504	
					RPD = 1.41	
14 gamma-Chlordane						
1	3.903	3.903	0.0	5071293	0.0488	
2	4.663	4.663	0.0	5896561	0.0494	
					RPD = 1.21	
15 alpha-Chlordane						
1	4.033	4.033	0.0	4941982	0.0491	
2	4.813	4.813	0.0	5536876	0.0497	
					RPD = 1.12	
16 4,4'-DDE						
1	4.130	4.130	0.0	4860529	0.0498	
2	4.993	4.993	0.0	5264822	0.0494	
					RPD = 0.82	
18 Endosulfan I						
1	4.160	4.160	0.0	4362757	0.0515	
2	4.870	4.870	0.0	4904908	0.0503	
					RPD = 2.42	
19 Dieldrin						
1	4.403	4.403	0.0	4557805	0.0511	
2	5.150	5.150	0.0	5565436	0.0501	
					RPD = 1.90	
20 Endrin						
1	4.633	4.633	0.0	3721212	0.0521	
2	5.453	5.453	0.0	4374514	0.0499	
					RPD = 4.19	
22 4,4'-DDD						
1	4.737	4.737	0.0	3516885	0.0500	
2	5.583	5.583	0.0	4349900	0.0494	
					RPD = 1.40	
23 Endosulfan II						
1	4.860	4.860	0.0	3650447	0.0518	
2	5.667	5.667	0.0	4515463	0.0503	
					RPD = 3.10	
26 4,4'-DDT						
1	5.023	5.023	0.0	3802090	0.0488	
2	5.903	5.903	0.0	4439370	0.0487	
					RPD = 0.33	
28 Endrin aldehyde						
1	5.290	5.290	0.0	3572805	0.0526	
2	6.003	6.003	0.0	3494317	0.0507	
					RPD = 3.68	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	On-Col Amt ng/ul	Flags
29 Methoxychlor						
1	5.547	5.547	0.0	2198007	0.0518	
2	6.590	6.590	0.0	2000906	0.0495	
					RPD = 4.54	
30 Endosulfan sulfate						
1	5.733	5.733	0.0	4612337	0.0524	
2	6.287	6.287	0.0	3983257	0.0500	
					RPD = 4.70	
31 Endrin ketone						
1	6.007	6.007	0.0	5449675	0.0528	
2	6.810	6.810	0.0	4529371	0.0498	
					RPD = 5.79	
S 35 BHC, Total						
1					0.1923	
2					0.1975	
					RPD = 2.64	

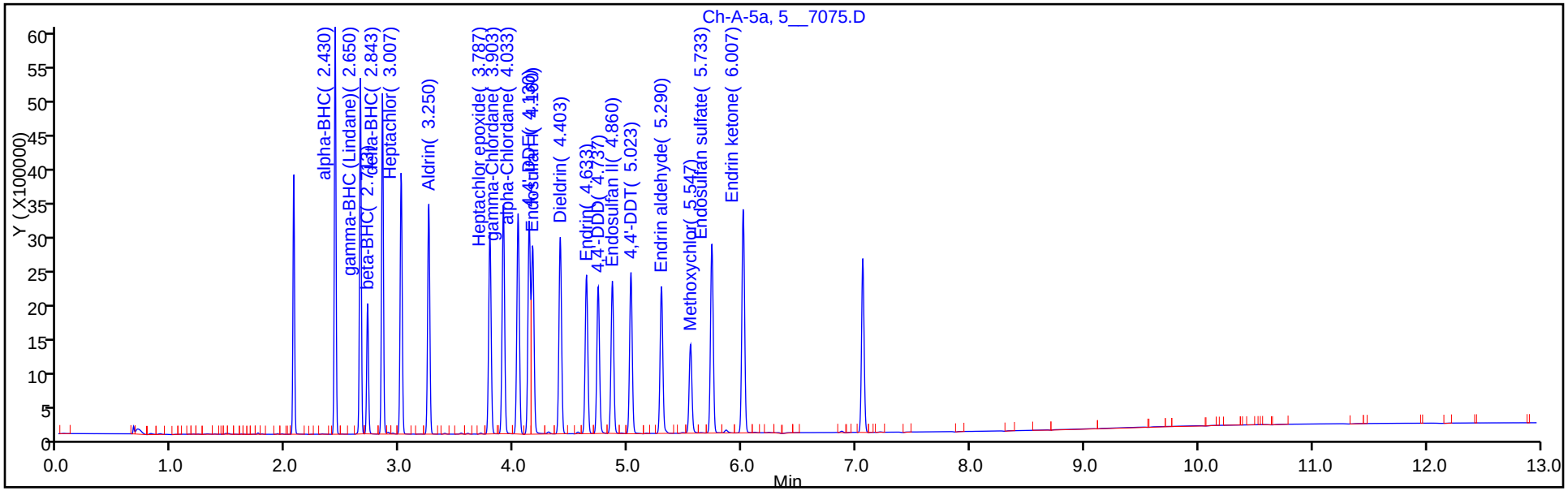
Report Date: 28-Mar-2014 10:56:04 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Buffalo

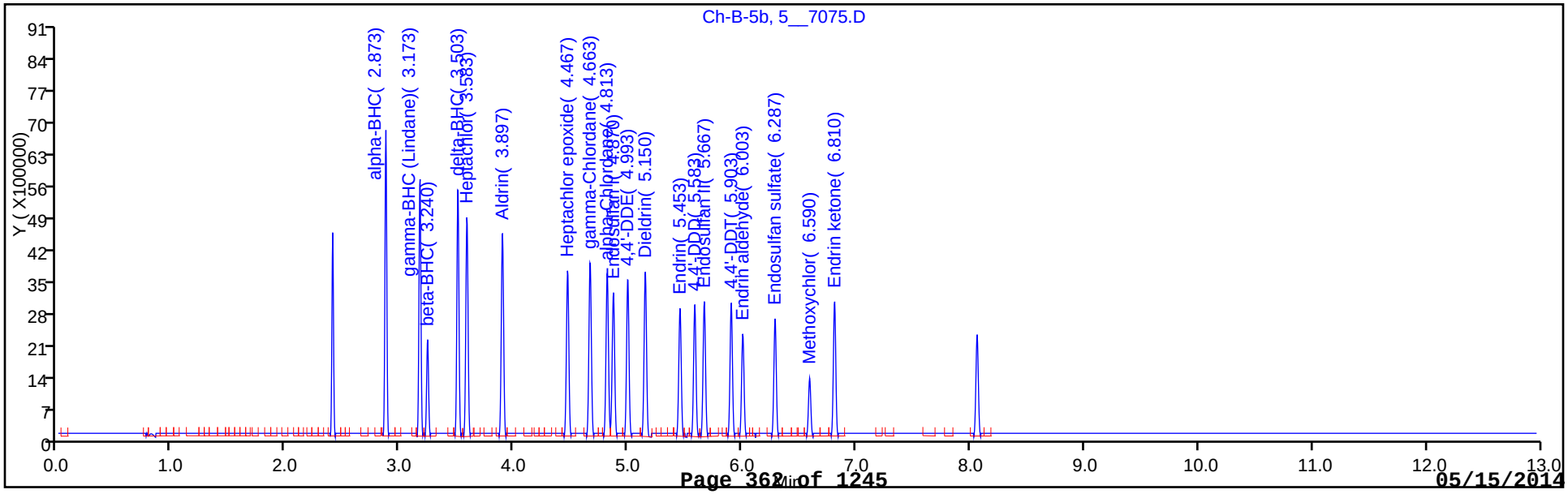
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Injection Date:	26-Mar-2014 13:56:55	Instrument ID:	HP6890-5	Operator ID:	buftchrom
Lims ID:	std			Worklist Smp#:	8
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8081-5	Limit Group:	GC - 8081B ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-05\20140326-30487.b\5__7076.D
Lims ID: std
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 26-Mar-2014 14:14:29 ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, None
Operator ID: buftchrom Instrument ID: HP6890-5
Sublist: chrom-8081-5*sub5

Method: \\Bufchrom\ChromData\HP6890-05\20140326-30487.b\8081-5.m
Limit Group: GC - 8081B ICAL
Last Update: 28-Mar-2014 10:56:06 Calib Date: 27-Mar-2014 19:29:41
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP6890-05\20140326-30487.b\5__7098.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK034

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	On-Col Amt ng/ul	Flags
$ 1 Tetrachloro-m-xylene						
1	2.067	2.067	0.0	665515	0.009545	
2	2.407	2.407	0.0	842277	0.009555	
					RPD = 0.11	
$ 2 DCB Decachlorobiphenyl						
1	7.057	7.057	0.0	650984	0.008498	
2	8.060	8.060	0.0	687524	0.009783	
					RPD = 14.05	
4 alpha-BHC						
1	2.430	2.430	0.0	1044859	0.009402	
2	2.873	2.873	0.0	1332304	0.009503	
					RPD = 1.07	
6 gamma-BHC (Lindane)						
1	2.650	2.650	0.0	948032	0.009405	
2	3.173	3.173	0.0	1224781	0.009551	
					RPD = 1.54	
7 beta-BHC						
1	2.713	2.713	0.0	393702	0.009587	
2	3.240	3.240	0.0	511240	0.009676	
					RPD = 0.92	
8 delta-BHC						
1	2.843	2.843	0.0	946331	0.009385	
2	3.507	3.503	0.004	1228037	0.009483	
					RPD = 1.03	
9 Heptachlor						
1	3.010	3.007	0.003	873059	0.009667	
2	3.587	3.583	0.004	1239547	0.009660	
					RPD = 0.08	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	On-Col Amt ng/ul	Flags
10 Aldrin						
1	3.250	3.250	0.0	778095	0.009578	
2	3.897	3.897	0.0	1185811	0.009644	
					RPD = 0.69	
13 Heptachlor epoxide						
1	3.787	3.787	0.0	834567	0.009610	
2	4.467	4.467	0.0	1037601	0.009727	
					RPD = 1.21	
14 gamma-Chlordane						
1	3.907	3.903	0.004	896842	0.009345	
2	4.667	4.663	0.004	1066434	0.009595	
					RPD = 2.64	
15 alpha-Chlordane						
1	4.037	4.033	0.004	884861	0.009428	
2	4.817	4.813	0.004	1013317	0.009624	
					RPD = 2.05	
16 4,4'-DDE						
1	4.133	4.130	0.003	794826	0.009303	
2	4.997	4.993	0.004	905498	0.009453	
					RPD = 1.60	
18 Endosulfan I						
1	4.163	4.160	0.003	869088	0.0100	
2	4.870	4.870	0.0	919914	0.009778	
					RPD = 2.70	
19 Dieldrin						
1	4.403	4.403	0.0	819655	0.009698	
2	5.150	5.150	0.0	1010870	0.009636	
					RPD = 0.65	
20 Endrin						
1	4.633	4.633	0.0	673375	0.009821	
2	5.453	5.453	0.0	813217	0.0100	
					RPD = 1.59	
22 4,4'-DDD						
1	4.740	4.737	0.003	597168	0.009496	
2	5.583	5.583	0.0	779542	0.009558	
					RPD = 0.65	
23 Endosulfan II						
1	4.863	4.860	0.003	665855	0.009682	
2	5.667	5.667	0.0	820690	0.009563	
					RPD = 1.24	
26 4,4'-DDT						
1	5.023	5.023	0.0	680307	0.009852	
2	5.903	5.903	0.0	772871	0.009513	
					RPD = 3.50	
28 Endrin aldehyde						
1	5.293	5.290	0.003	687788	0.009687	
2	6.007	6.003	0.004	638751	0.009558	
					RPD = 1.33	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	On-Col Amt ng/ul	Flags
29 Methoxychlor						
1	5.547	5.547	0.0	451036	0.0102	
2	6.593	6.590	0.003	371422	0.009772	
					RPD = 3.80	
30 Endosulfan sulfate						
1	5.733	5.733	0.0	879735	0.009797	
2	6.290	6.287	0.003	702348	0.009495	
					RPD = 3.14	
31 Endrin ketone						
1	6.010	6.007	0.003	1063108	0.009883	
2	6.810	6.810	0.0	822967	0.009589	
					RPD = 3.01	
S 35 BHC, Total						
1					0.0378	
2					0.0382	
					RPD = 1.14	

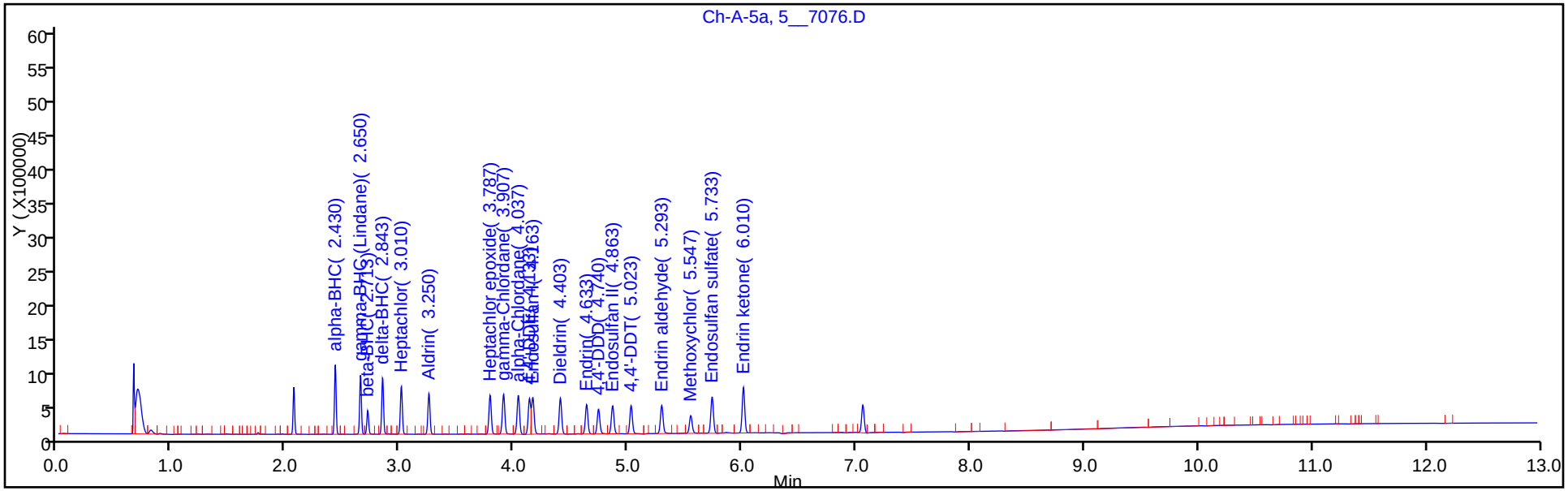
Report Date: 28-Mar-2014 10:56:07 Chrom Revision: 2.2 12-Mar-2014 11:19:24

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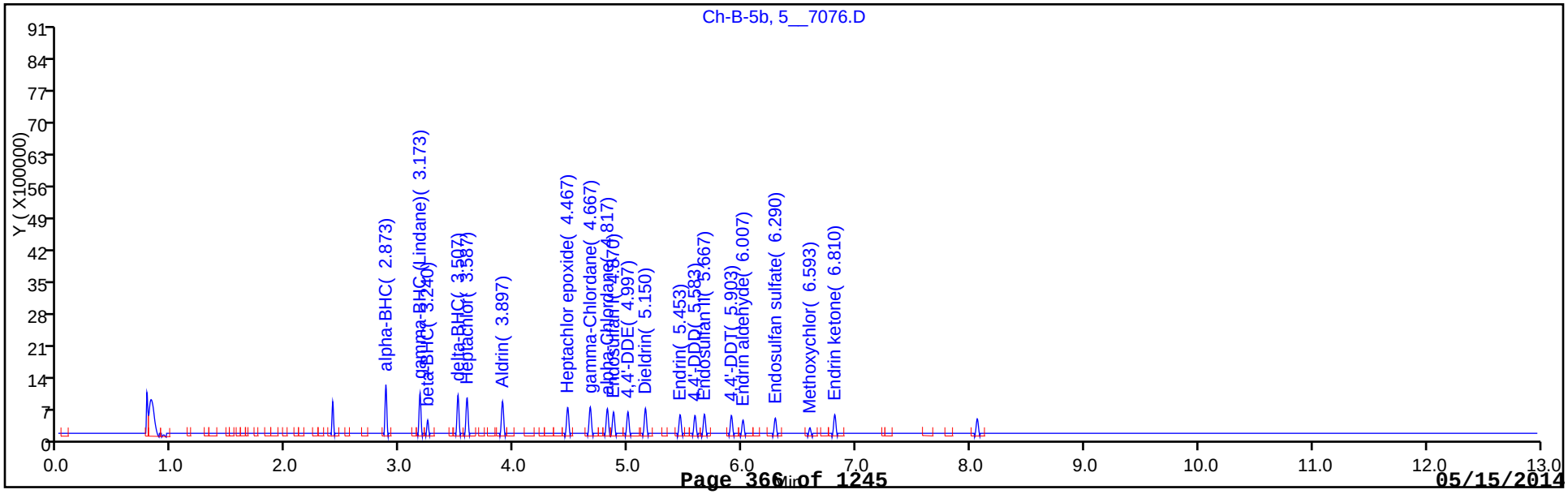
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Injection Date:	26-Mar-2014 14:14:29	Instrument ID:	HP6890-5	Operator ID:	buftchrom
Lims ID:	std			Worklist Smp#:	9
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8081-5	Limit Group:	GC - 8081B ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-05\20140326-30487.b\5__7077.D
Lims ID: std
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 26-Mar-2014 14:32:16 ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, None
Operator ID: buftchrom Instrument ID: HP6890-5
Sublist: chrom-8081-5*sub5

Method: \\Bufchrom\ChromData\HP6890-05\20140326-30487.b\8081-5.m
Limit Group: GC - 8081B ICAL
Last Update: 28-Mar-2014 10:56:09 Calib Date: 27-Mar-2014 19:29:41
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP6890-05\20140326-30487.b\5__7098.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK034

First Level Reviewer: WolfL Date: 27-Mar-2014 10:54:26

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	On-Col Amt ng/ul	Flags
$ 1 Tetrachloro-m-xylene						
1	2.067	2.067	0.0	335810	0.005315	
2	2.407	2.407	0.0	438357	0.005243	
					RPD = 1.35	
$ 2 DCB Decachlorobiphenyl						
1	7.060	7.057	0.003	424873	0.005861	
2	8.060	8.060	0.0	361264	0.005144	
					RPD = 13.03	
4 alpha-BHC						
1	2.430	2.430	0.0	512054	0.005454	
2	2.873	2.873	0.0	667167	0.005290	
					RPD = 3.04	
6 gamma-BHC (Lindane)						
1	2.650	2.650	0.0	471437	0.005430	
2	3.170	3.173	-0.003	618874	0.005267	
					RPD = 3.04	
7 beta-BHC						
1	2.713	2.713	0.0	203450	0.005313	
2	3.240	3.240	0.0	268267	0.005202	
					RPD = 2.12	
8 delta-BHC						
1	2.843	2.843	0.0	467274	0.005455	
2	3.503	3.503	0.0	625816	0.005299	
					RPD = 2.91	
9 Heptachlor						
1	3.007	3.007	0.0	437280	0.005134	
2	3.583	3.583	0.0	635953	0.005106	
					RPD = 0.54	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	On-Col Amt ng/ul	Flags
10 Aldrin						
1	3.250	3.250	0.0	381512	0.005211	
2	3.897	3.897	0.0	597534	0.005152	
					RPD = 1.13	
13 Heptachlor epoxide						
1	3.787	3.787	0.0	442442	0.005106	
2	4.467	4.467	0.0	528889	0.005097	
					RPD = 0.18	
14 gamma-Chlordane						
1	3.903	3.903	0.0	480067	0.005402	
2	4.663	4.663	0.0	538224	0.005239	
					RPD = 3.07	
15 alpha-Chlordane						
1	4.033	4.033	0.0	467154	0.005339	
2	4.813	4.813	0.0	514774	0.005207	
					RPD = 2.51	
16 4,4'-DDE						
1	4.133	4.130	0.003	396102	0.005330	
2	4.997	4.993	0.004	452751	0.005303	
					RPD = 0.50	
18 Endosulfan I						
1	4.160	4.160	0.0	434678	0.004888	
2	4.870	4.870	0.0	458113	0.005083	
					RPD = 3.91	
19 Dieldrin						
1	4.403	4.403	0.0	400748	0.005063	
2	5.150	5.150	0.0	508026	0.005168	
					RPD = 2.06	
20 Endrin						
1	4.633	4.633	0.0	323370	0.004969	
2	5.453	5.453	0.0	371724	0.005024	
					RPD = 1.11	
22 4,4'-DDD						
1	4.737	4.737	0.0	290576	0.005237	
2	5.583	5.583	0.0	394133	0.005262	
					RPD = 0.48	
23 Endosulfan II						
1	4.860	4.860	0.0	335538	0.005017	
2	5.667	5.667	0.0	423937	0.005194	
					RPD = 3.46	
26 4,4'-DDT						
1	5.023	5.023	0.0	302116	0.005129	
2	5.903	5.903	0.0	381785	0.005335	
					RPD = 3.95	
28 Endrin aldehyde						
1	5.293	5.290	0.003	368774	0.004941	
2	6.003	6.003	0.0	332764	0.005150	
					RPD = 4.14	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	On-Col Amt ng/ul	Flags
29 Methoxychlor						
1	5.547	5.547	0.0	226577	0.004795	
2	6.590	6.590	0.0	182201	0.005155	
					RPD = 7.24	
30 Endosulfan sulfate						
1	5.733	5.733	0.0	452417	0.004925	
2	6.287	6.287	0.0	357994	0.005248	
					RPD = 6.36	
31 Endrin ketone						
1	6.010	6.007	0.003	547660	0.004840	
2	6.810	6.810	0.0	418708	0.005201	
					RPD = 7.18	
S 35 BHC, Total						
1					0.0217	
2					0.0211	
					RPD = 2.78	

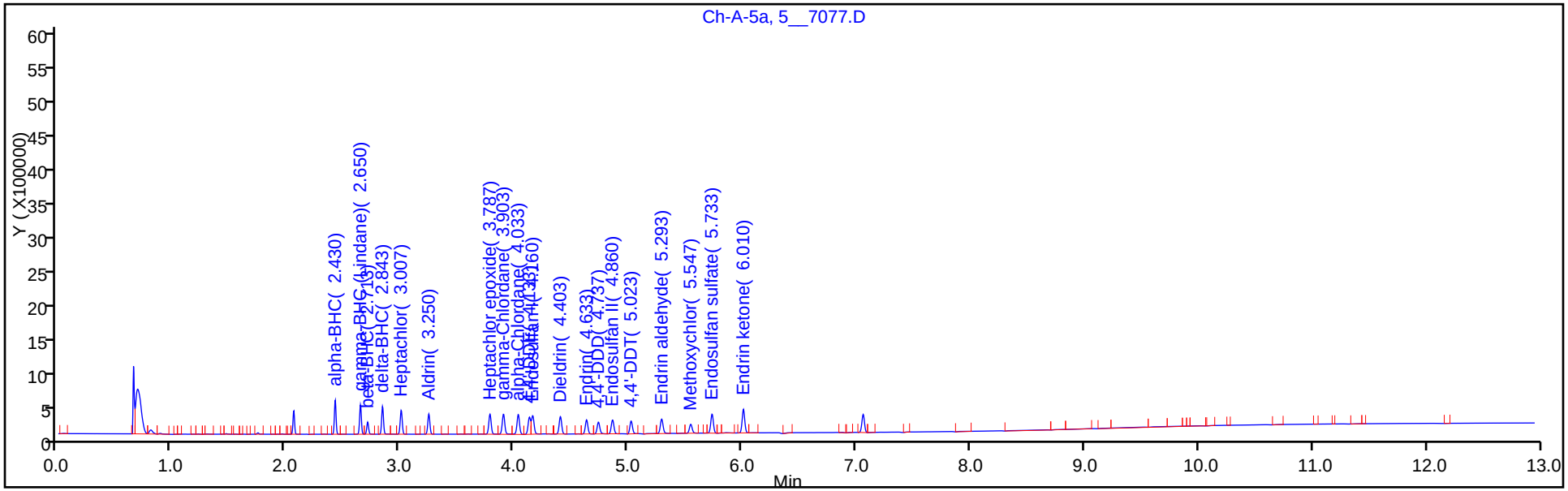
Report Date: 28-Mar-2014 10:56:09 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Buffalo

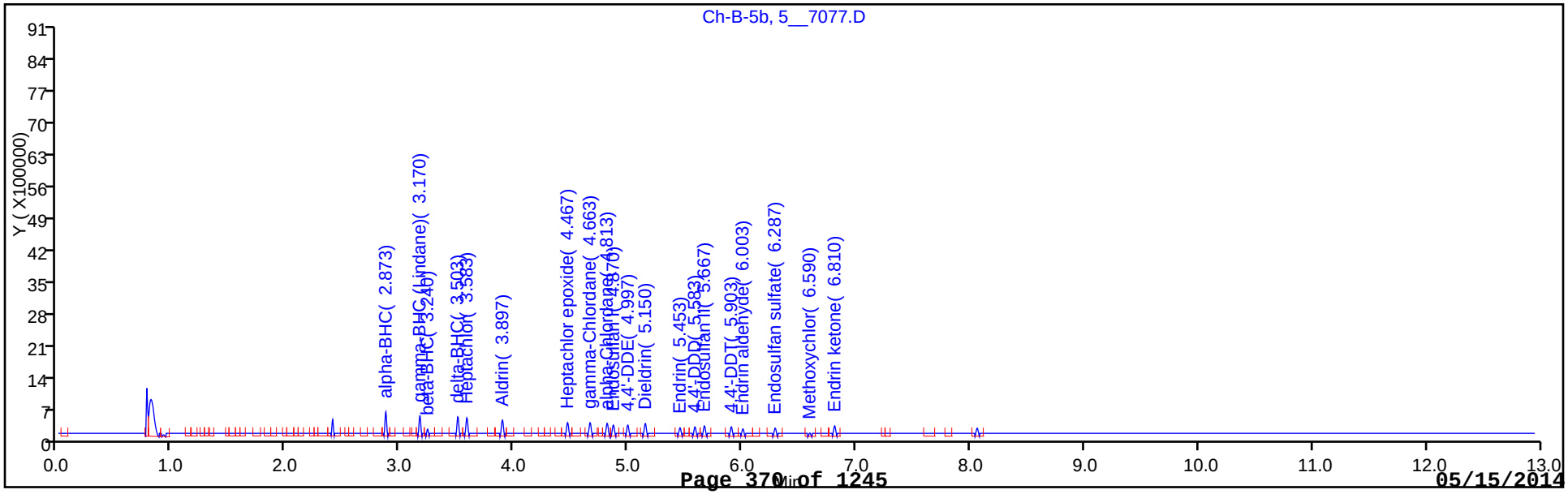
Data File: \\Bufchrom\ChromData\HP6890-05\20140326-30487.b\5__7077.D

Injection Date:	26-Mar-2014 14:32:16	Instrument ID:	HP6890-5	Operator ID:	buftchrom
Lims ID:	std			Worklist Smp#:	10
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8081-5	Limit Group:	GC - 8081B ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1 Analy Batch No.: 172072

SDG No.:

Instrument ID: HP6890-5 GC Column: RTX-CLPII ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/26/2014 13:21 Calibration End Date: 03/26/2014 14:32 Calibration ID: 17845

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 480-172072/10	5__7077.D
Level 2	STD 480-172072/9	5__7076.D
Level 3	STD 480-172072/8	5__7075.D
Level 4	STD 480-172072/7	5__7074.D
Level 5	STD 480-172072/6	5__7073.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5						RT WINDOW	AVG RT
alpha-BHC	2.873	2.873	2.873	2.873	2.877						2.843 - 2.903	2.874
gamma-BHC (Lindane)	3.170	3.173	3.173	3.173	3.173						3.143 - 3.203	3.172
beta-BHC	3.240	3.240	3.240	3.240	3.240						3.210 - 3.270	3.240
delta-BHC	3.503	3.507	3.503	3.507	3.507						3.473 - 3.533	3.505
Heptachlor	3.583	3.587	3.583	3.587	3.587						3.553 - 3.613	3.585
Aldrin	3.897	3.897	3.897	3.897	3.900						3.867 - 3.927	3.898
Heptachlor epoxide	4.467	4.467	4.467	4.470	4.470						4.437 - 4.497	4.468
gamma-Chlordane	4.663	4.667	4.663	4.667	4.667						4.633 - 4.693	4.665
alpha-Chlordane	4.813	4.817	4.813	4.817	4.817						4.783 - 4.843	4.815
Endosulfan I	4.870	4.870	4.870	4.870	4.873						4.840 - 4.900	4.871
4,4'-DDE	4.997	4.997	4.993	4.997	4.997						4.963 - 5.023	4.996
Dieldrin	5.150	5.150	5.150	5.153	5.153						5.120 - 5.180	5.151
Endrin	5.453	5.453	5.453	5.457	5.457						5.423 - 5.483	5.455
4,4'-DDD	5.583	5.583	5.583	5.587	5.587						5.553 - 5.613	5.585
Endosulfan II	5.667	5.667	5.667	5.670	5.670						5.637 - 5.697	5.668
4,4'-DDT	5.903	5.903	5.903	5.907	5.907						5.873 - 5.933	5.905
Endrin aldehyde	6.003	6.007	6.003	6.007	6.007						5.973 - 6.033	6.005
Endosulfan sulfate	6.287	6.290	6.287	6.290	6.290						6.257 - 6.317	6.289
Methoxychlor	6.590	6.593	6.590	6.593	6.593						6.560 - 6.620	6.592
Endrin ketone	6.810	6.810	6.810	6.813	6.813						6.780 - 6.840	6.811
Tetrachloro-m-xylene	2.407	2.407	2.407	2.407	2.407						2.377 - 2.437	2.407
DCB Decachlorobiphenyl	8.060	8.060	8.060	8.063	8.063						8.030 - 8.090	8.061

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1 Analy Batch No.: 172072

SDG No.:

Instrument ID: HP6890-5 GC Column: RTX-CLPII ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/26/2014 13:21 Calibration End Date: 03/26/2014 14:32 Calibration ID: 17845

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 480-172072/10	5__7077.D
Level 2	STD 480-172072/9	5__7076.D
Level 3	STD 480-172072/8	5__7075.D
Level 4	STD 480-172072/7	5__7074.D
Level 5	STD 480-172072/6	5__7073.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 3	LVL 4		B	M1	M2								
alpha-BHC	133433400 157976300	133230400	152435860	155792850	Lin1	-168183.77	157898136							1.0000		0.9900
gamma-BHC (Lindane)	123774800 141626707	122478100	137000620	139823720	Lin1	-126077.44	141430004							1.0000		0.9900
beta-BHC	53653400 54593433	51124000	53405620	53963070	Lin1	-14220.853	54305442.1							1.0000		0.9900
delta-BHC	125163200 144103493	122803700	139355460	142177530	Lin1	-136822.32	143933380							1.0000		0.9900
Heptachlor	127190600 131450780	123954700	133676160	132741100	Lin1	-40912.682	132557455							1.0000		0.9900
Aldrin	119506800 130271120	118581100	130056800	130396380	Lin1	-77194.473	130960201							1.0000		0.9900
Heptachlor epoxide	105777800 109154380	103760100	110113020	110075640	Lin1	-31052.608	109867064							1.0000		0.9900
gamma-Chlordane	107644800 121372373	106643400	117931220	120030400	Lin1	-96972.043	121253890							1.0000		0.9900
alpha-Chlordane	102954800 112938307	101331700	110737520	111867410	Lin1	-72990.783	112880660							1.0000		0.9900
Endosulfan I	91622600 97849907	91991400	98098160	98131050	Lin1	-41879.065	98358480.4							1.0000		0.9900
4,4'-DDE	90550200 108810227	90549800	105296440	107955200	Lin1	-125905.45	109110007							1.0000		0.9900
Dieldrin	101605200 112090373	101087000	111308720	111871080	Lin1	-73619.154	112549498							1.0000		0.9900
Endrin	74344800 88973587	81321700	87490280	87898950	Lin1	-76097.535	89129764.1							1.0000		0.9900
4,4'-DDD	78826600 89838727	77954200	86998000	88722940	Lin1	-77990.660	89719464.4							1.0000		0.9900
Endosulfan II	84787400 90505320	82069000	90309260	90304910	Lin1	-47742.007	90809806.5							1.0000		0.9900

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

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1 Analy Batch No.: 172072

SDG No.:

Instrument ID: HP6890-5 GC Column: RTX-CLPII ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/26/2014 13:21 Calibration End Date: 03/26/2014 14:32 Calibration ID: 17845

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 3	LVL 4		B	M1	M2								
4,4'-DDT	76357000 94082313	77287100	88787400	91908580	Lin1	-117620.00	93604225.4							1.0000		0.9900
Endrin aldehyde	66552800 68642680	63875100	69886340	69762900	Lin1	-24625.252	69402064.3							1.0000		0.9900
Endosulfan sulfate	71598800 80835393	70234800	79665140	80370220	Lin1	-67585.178	81091606.0							1.0000		0.9900
Methoxychlor	36440200 41136373	37142200	40018120	40383900	Lin1	-29041.642	40979629.2							1.0000		0.9900
Endrin ketone	83741600 91618213	82296700	90587420	92022400	Lin1	-60409.562	92120843.8							1.0000		0.9900
Tetrachloro-m-xylene	87671400 93783647	84227700	91927420	92989640	Lin1	-52790.141	93674497.5							1.0000		0.9900
DCB Decachlorobiphenyl	72252800 70667780	68752400	69565740	70236770	Lin1	-491.24800	70328175.4							1.0000		0.9900

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

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1 Analy Batch No.: 172072

SDG No.:

Instrument ID: HP6890-5 GC Column: RTX-CLPII ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/26/2014 13:21 Calibration End Date: 03/26/2014 14:32 Calibration ID: 17845

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 480-172072/10	5__7077.D
Level 2	STD 480-172072/9	5__7076.D
Level 3	STD 480-172072/8	5__7075.D
Level 4	STD 480-172072/7	5__7074.D
Level 5	STD 480-172072/6	5__7073.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
		LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
alpha-BHC	Lin1	667167	1332304	7621793	15579285	23696445	0.00500	0.0100	0.0500	0.100	0.150
gamma-BHC (Lindane)	Lin1	618874	1224781	6850031	13982372	21244006	0.00500	0.0100	0.0500	0.100	0.150
beta-BHC	Lin1	268267	511240	2670281	5396307	8189015	0.00500	0.0100	0.0500	0.100	0.150
delta-BHC	Lin1	625816	1228037	6967773	14217753	21615524	0.00500	0.0100	0.0500	0.100	0.150
Heptachlor	Lin1	635953	1239547	6683808	13274110	19717617	0.00500	0.0100	0.0500	0.100	0.150
Aldrin	Lin1	597534	1185811	6502840	13039638	19540668	0.00500	0.0100	0.0500	0.100	0.150
Heptachlor epoxide	Lin1	528889	1037601	5505651	11007564	16373157	0.00500	0.0100	0.0500	0.100	0.150
gamma-Chlordane	Lin1	538224	1066434	5896561	12003040	18205856	0.00500	0.0100	0.0500	0.100	0.150
alpha-Chlordane	Lin1	514774	1013317	5536876	11186741	16940746	0.00500	0.0100	0.0500	0.100	0.150
Endosulfan I	Lin1	458113	919914	4904908	9813105	14677486	0.00500	0.0100	0.0500	0.100	0.150
4,4'-DDE	Lin1	452751	905498	5264822	10795520	16321534	0.00500	0.0100	0.0500	0.100	0.150
Dieldrin	Lin1	508026	1010870	5565436	11187108	16813556	0.00500	0.0100	0.0500	0.100	0.150
Endrin	Lin1	371724	813217	4374514	8789895	13346038	0.00500	0.0100	0.0500	0.100	0.150
4,4'-DDD	Lin1	394133	779542	4349900	8872294	13475809	0.00500	0.0100	0.0500	0.100	0.150
Endosulfan II	Lin1	423937	820690	4515463	9030491	13575798	0.00500	0.0100	0.0500	0.100	0.150
4,4'-DDT	Lin1	381785	772871	4439370	9190858	14112347	0.00500	0.0100	0.0500	0.100	0.150
Endrin aldehyde	Lin1	332764	638751	3494317	6976290	10296402	0.00500	0.0100	0.0500	0.100	0.150
Endosulfan sulfate	Lin1	357994	702348	3983257	8037022	12125309	0.00500	0.0100	0.0500	0.100	0.150
Methoxychlor	Lin1	182201	371422	2000906	4038390	6170456	0.00500	0.0100	0.0500	0.100	0.150
Endrin ketone	Lin1	418708	822967	4529371	9202240	13742732	0.00500	0.0100	0.0500	0.100	0.150
Tetrachloro-m-xylene	Lin1	438357	842277	4596371	9298964	14067547	0.00500	0.0100	0.0500	0.100	0.150
DCB Decachlorobiphenyl	Lin1	361264	687524	3478287	7023677	10600167	0.00500	0.0100	0.0500	0.100	0.150

Curve Type Legend:
Lin1 = Linear 1/conc

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-05\20140326-30487.b\5__7073.D
Lims ID: std
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 26-Mar-2014 13:21:43 ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, None
Operator ID: buftchrom Instrument ID: HP6890-5
Sublist: chrom-8081-5*sub5

Method: \\Bufchrom\ChromData\HP6890-05\20140326-30487.b\8081-5.m
Limit Group: GC - 8081B ICAL
Last Update: 28-Mar-2014 10:55:56 Calib Date: 27-Mar-2014 19:29:41
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP6890-05\20140326-30487.b\5__7098.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK034

First Level Reviewer: WolfL Date: 27-Mar-2014 08:13:30

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	On-Col Amt ng/ul	Flags
$ 1 Tetrachloro-m-xylene						
1	2.067	2.067	0.0	11763497	0.1519	
2	2.407	2.407	0.0	14067547	0.1507	
					RPD = 0.79	
$ 2 DCB Decachlorobiphenyl						
1	7.063	7.057	0.006	12746192	0.1496	
2	8.063	8.060	0.003	10600167	0.1507	
					RPD = 0.75	
4 alpha-BHC						
1	2.430	2.430	0.0	20457797	0.1533	
2	2.877	2.873	0.004	23696445	0.1511	
					RPD = 1.39	
6 gamma-BHC (Lindane)						
1	2.653	2.650	0.003	18131882	0.1527	
2	3.173	3.173	0.0	21244006	0.1511	
					RPD = 1.08	
7 beta-BHC						
1	2.717	2.713	0.004	6740791	0.1522	
2	3.240	3.240	0.0	8189015	0.1511	
					RPD = 0.73	
8 delta-BHC						
1	2.847	2.843	0.004	18444717	0.1530	
2	3.507	3.503	0.004	21615524	0.1511	
					RPD = 1.21	
9 Heptachlor						
1	3.010	3.007	0.003	14346754	0.1498	
2	3.587	3.583	0.004	19717617	0.1491	
					RPD = 0.52	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	On-Col Amt ng/ul	Flags
10 Aldrin						
1	3.253	3.250	0.003	13555367	0.1503	
2	3.900	3.897	0.003	19540668	0.1498	
					RPD = 0.32	
13 Heptachlor epoxide						
1	3.790	3.787	0.003	12952357	0.1488	
2	4.470	4.467	0.003	16373157	0.1493	
					RPD = 0.34	
14 gamma-Chlordane						
1	3.907	3.903	0.004	15946738	0.1517	
2	4.667	4.663	0.004	18205856	0.1509	
					RPD = 0.51	
15 alpha-Chlordane						
1	4.037	4.033	0.004	15380646	0.1513	
2	4.817	4.813	0.004	16940746	0.1507	
					RPD = 0.40	
16 4,4'-DDE						
1	4.133	4.130	0.003	14857732	0.1494	
2	4.997	4.993	0.004	16321534	0.1507	
					RPD = 0.88	
18 Endosulfan I						
1	4.163	4.160	0.003	12610339	0.1494	
2	4.873	4.870	0.003	14677486	0.1497	
					RPD = 0.14	
19 Dieldrin						
1	4.407	4.403	0.004	13373884	0.1486	
2	5.153	5.150	0.003	16813556	0.1500	
					RPD = 0.95	
20 Endrin						
1	4.637	4.633	0.004	10756495	0.1496	
2	5.457	5.453	0.004	13346038	0.1506	
					RPD = 0.67	
22 4,4'-DDD						
1	4.740	4.737	0.003	10716598	0.1501	
2	5.587	5.583	0.004	13475809	0.1511	
					RPD = 0.68	
23 Endosulfan II						
1	4.863	4.860	0.003	10453010	0.1479	
2	5.670	5.667	0.003	13575798	0.1500	
					RPD = 1.42	
26 4,4'-DDT						
1	5.027	5.023	0.004	11890043	0.1499	
2	5.907	5.903	0.004	14112347	0.1520	
					RPD = 1.43	
28 Endrin aldehyde						
1	5.297	5.290	0.007	9849658	0.1460	
2	6.007	6.003	0.004	10296402	0.1487	
					RPD = 1.85	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	On-Col Amt ng/ul	Flags
29 Methoxychlor						
1	5.550	5.547	0.003	6223297	0.1479	
2	6.593	6.590	0.003	6170456	0.1513	
					RPD = 2.27	
30 Endosulfan sulfate						
1	5.737	5.733	0.004	12938887	0.1473	
2	6.290	6.287	0.003	12125309	0.1504	
					RPD = 2.06	
31 Endrin ketone						
1	6.013	6.007	0.006	14989030	0.1461	
2	6.813	6.810	0.003	13742732	0.1498	
					RPD = 2.52	
S 35 BHC, Total						
1					0.6111	
2					0.6044	
					RPD = 1.10	

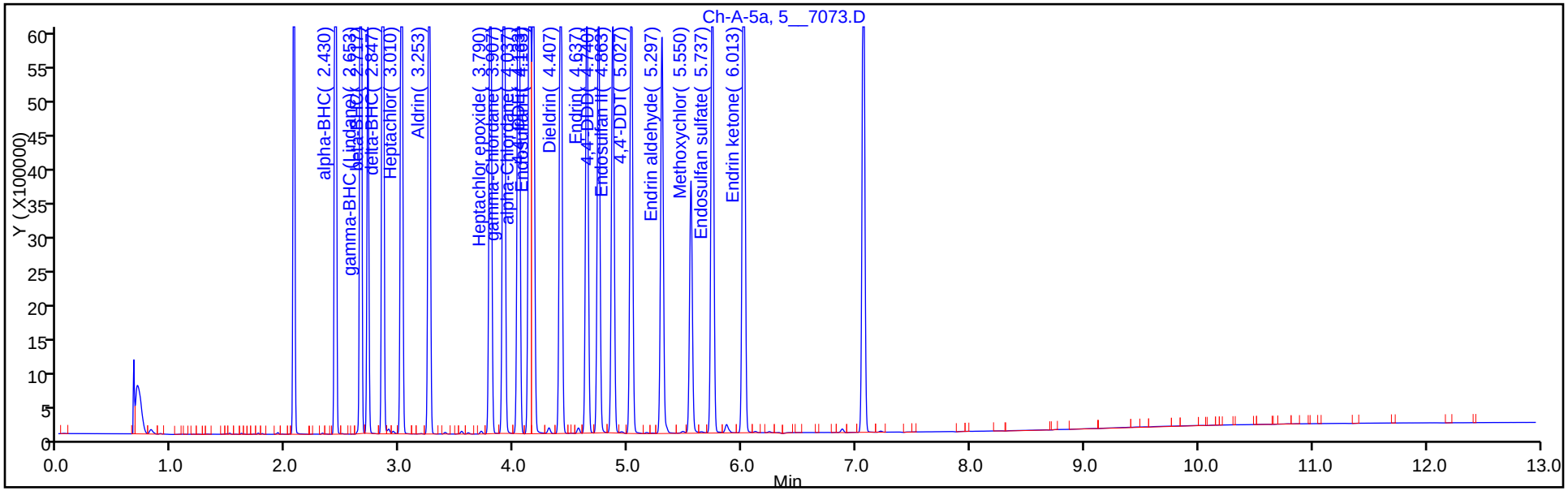
Report Date: 28-Mar-2014 10:55:57 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Buffalo

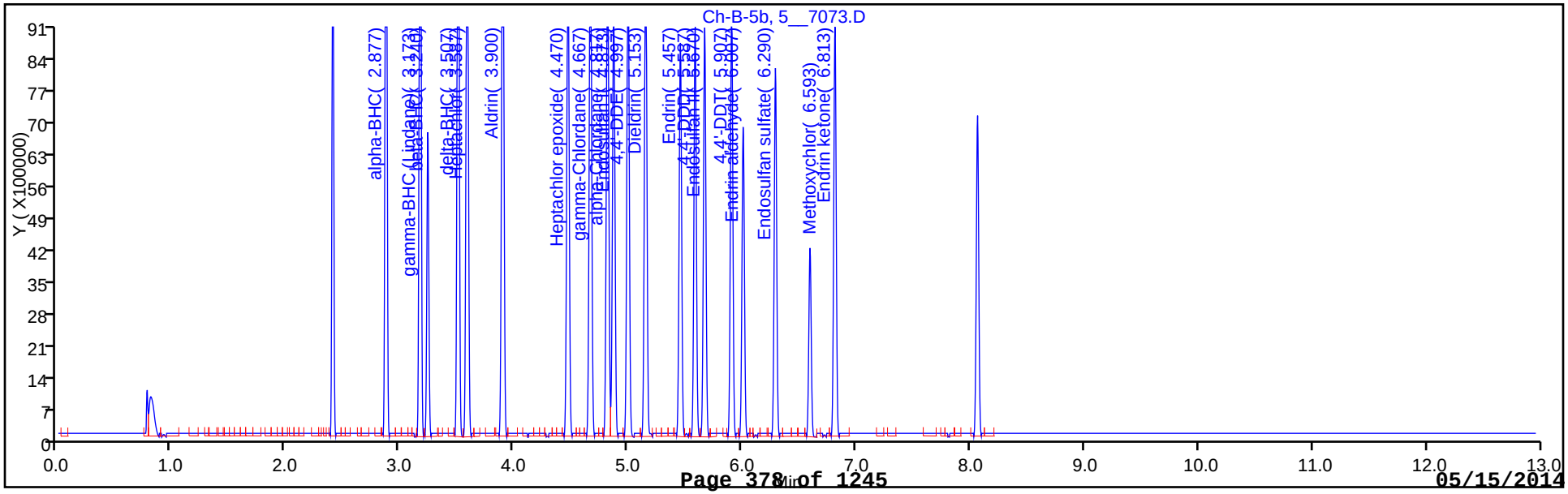
Data File: \\Bufchrom\ChromData\HP6890-05\20140326-30487.b\5__7073.D

Injection Date:	26-Mar-2014 13:21:43	Instrument ID:	HP6890-5	Operator ID:	buftchrom
Lims ID:	std			Worklist Smp#:	6
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8081-5	Limit Group:	GC - 8081B ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-05\20140326-30487.b\5__7074.D
Lims ID: std
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 26-Mar-2014 13:39:19 ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, None
Operator ID: buftchrom Instrument ID: HP6890-5
Sublist: chrom-8081-5*sub5

Method: \\Bufchrom\ChromData\HP6890-05\20140326-30487.b\8081-5.m
Limit Group: GC - 8081B ICAL
Last Update: 28-Mar-2014 10:55:58 Calib Date: 27-Mar-2014 19:29:41
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP6890-05\20140326-30487.b\5__7098.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK034

First Level Reviewer: RudzG Date: 27-Mar-2014 10:00:44

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	On-Col Amt ng/ul	Flags
$ 1 Tetrachloro-m-xylene						
1	2.067	2.067	0.0	7671483	0.0994	
2	2.407	2.407	0.0	9298964	0.0998	
					RPD = 0.40	
$ 2 DCB Decachlorobiphenyl						
1	7.063	7.057	0.006	8837532	0.1040	
2	8.063	8.060	0.003	7023677	0.0999	
					RPD = 4.05	
4 alpha-BHC						
1	2.430	2.430	0.0	13139909	0.0990	
2	2.873	2.873	0.0	15579285	0.0997	
					RPD = 0.70	
6 gamma-BHC (Lindane)						
1	2.653	2.650	0.003	11728423	0.0993	
2	3.173	3.173	0.0	13982372	0.0998	
					RPD = 0.43	
7 beta-BHC						
1	2.713	2.713	0.0	4394492	0.0995	
2	3.240	3.240	0.0	5396307	0.0996	
					RPD = 0.18	
8 delta-BHC						
1	2.847	2.843	0.004	11907424	0.0993	
2	3.507	3.503	0.004	14217753	0.0997	
					RPD = 0.41	
9 Heptachlor						
1	3.010	3.007	0.003	9554101	0.1000	
2	3.587	3.583	0.004	13274110	0.1004	
					RPD = 0.47	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	On-Col Amt ng/ul	Flags
10 Aldrin						
1	3.253	3.250	0.003	8992108	0.1000	
2	3.897	3.897	0.0	13039638	0.1002	
					RPD = 0.12	
13 Heptachlor epoxide						
1	3.790	3.787	0.003	8737059	0.1004	
2	4.470	4.467	0.003	11007564	0.1005	
					RPD = 0.09	
14 gamma-Chlordane						
1	3.907	3.903	0.004	10447339	0.0997	
2	4.667	4.663	0.004	12003040	0.0998	
					RPD = 0.10	
15 alpha-Chlordane						
1	4.037	4.033	0.004	10114165	0.0998	
2	4.817	4.813	0.004	11186741	0.0997	
					RPD = 0.02	
16 4,4'-DDE						
1	4.133	4.130	0.003	10010577	0.1011	
2	4.997	4.993	0.004	10795520	0.1001	
					RPD = 1.03	
18 Endosulfan I						
1	4.163	4.160	0.003	8370021	0.0991	
2	4.870	4.870	0.0	9813105	0.1002	
					RPD = 1.10	
19 Dieldrin						
1	4.407	4.403	0.004	9030285	0.1006	
2	5.153	5.150	0.003	11187108	0.1001	
					RPD = 0.50	
20 Endrin						
1	4.637	4.633	0.004	7074370	0.0986	
2	5.457	5.453	0.004	8789895	0.0995	
					RPD = 0.93	
22 4,4'-DDD						
1	4.737	4.737	0.0	7125257	0.1002	
2	5.587	5.583	0.004	8872294	0.0998	
					RPD = 0.41	
23 Endosulfan II						
1	4.863	4.860	0.003	7101371	0.1006	
2	5.670	5.667	0.003	9030491	0.1000	
					RPD = 0.60	
26 4,4'-DDT						
1	5.027	5.023	0.004	8003630	0.1013	
2	5.907	5.903	0.004	9190858	0.0994	
					RPD = 1.87	
28 Endrin aldehyde						
1	5.293	5.290	0.003	6878144	0.1018	
2	6.007	6.003	0.004	6976290	0.1009	
					RPD = 0.89	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	On-Col Amt ng/ul	Flags
29 Methoxychlor						
1	5.550	5.547	0.003	4230262	0.1003	
2	6.593	6.590	0.003	4038390	0.0993	
					RPD = 1.08	
30 Endosulfan sulfate						
1	5.737	5.733	0.004	8845230	0.1006	
2	6.290	6.287	0.003	8037022	0.0999	
					RPD = 0.68	
31 Endrin ketone						
1	6.010	6.007	0.003	10416664	0.1014	
2	6.813	6.810	0.003	9202240	0.1005	
					RPD = 0.82	
S 35 BHC, Total						
1					0.3971	
2					0.3988	
					RPD = 0.43	

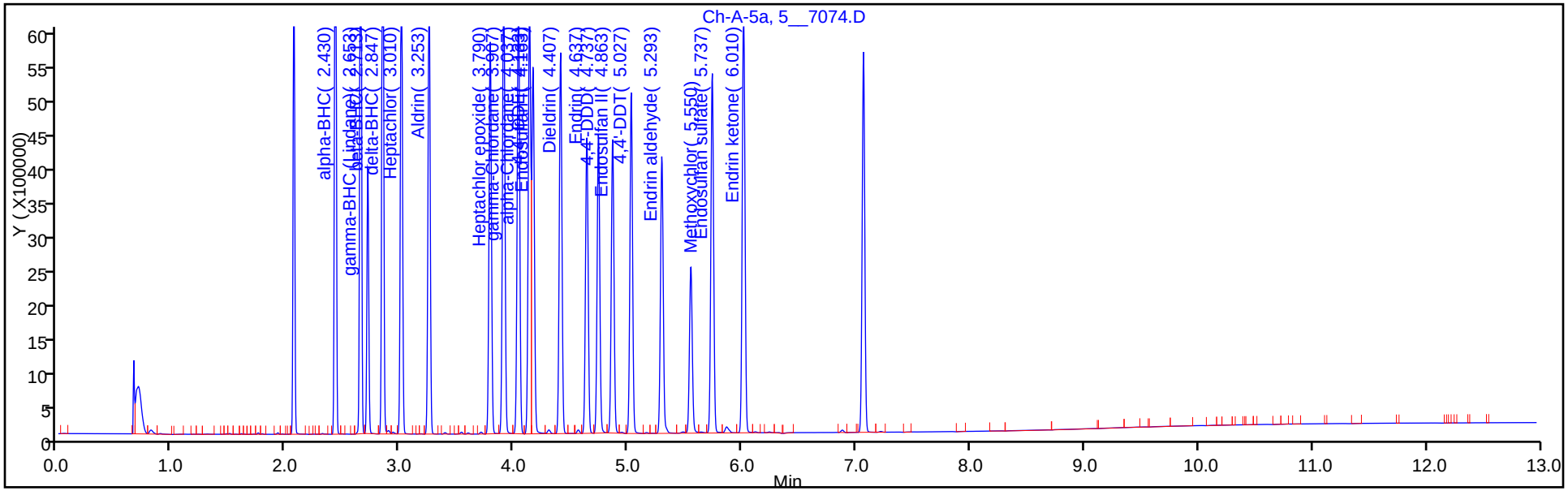
Report Date: 28-Mar-2014 10:55:59 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Buffalo

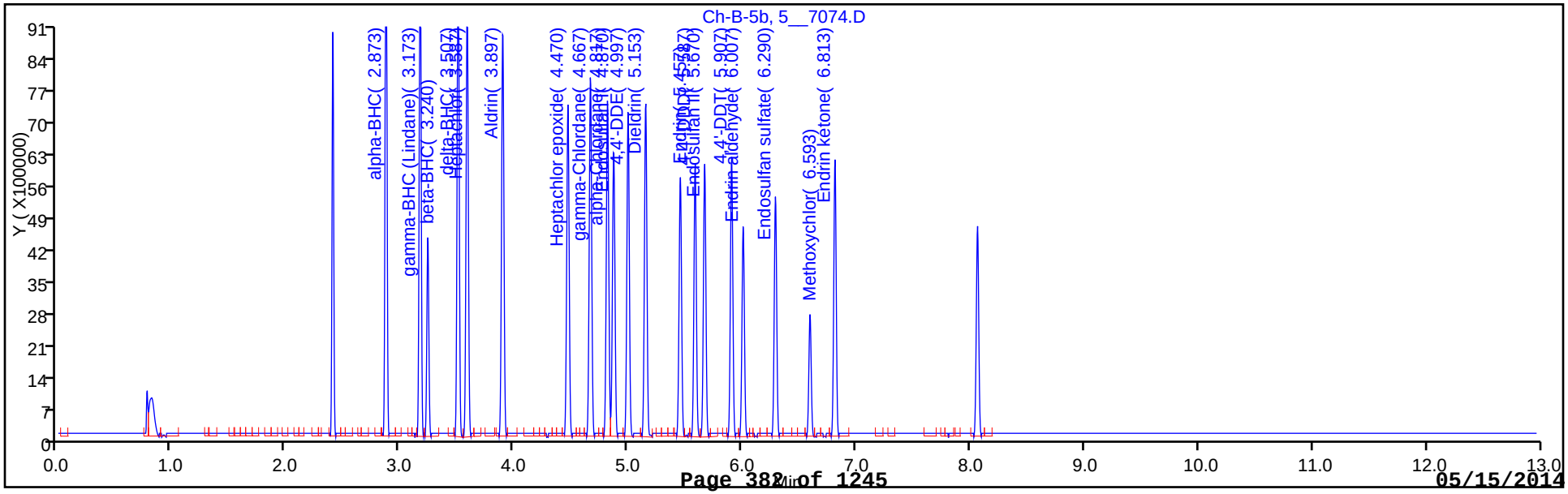
Data File: \\Bufchrom\ChromData\HP6890-05\20140326-30487.b\5__7074.D

Injection Date:	26-Mar-2014 13:39:19	Instrument ID:	HP6890-5	Operator ID:	buftchrom
Lims ID:	std			Worklist Smp#:	7
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8081-5	Limit Group:	GC - 8081B ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-05\20140326-30487.b\5__7075.D
Lims ID: std
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 26-Mar-2014 13:56:55 ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, None
Operator ID: buftchrom Instrument ID: HP6890-5
Sublist: chrom-8081-5*sub5

Method: \\Bufchrom\ChromData\HP6890-05\20140326-30487.b\8081-5.m
Limit Group: GC - 8081B ICAL
Last Update: 28-Mar-2014 10:56:03 Calib Date: 27-Mar-2014 19:29:41
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP6890-05\20140326-30487.b\5__7098.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK034

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	On-Col Amt ng/ul	Flags
$ 1 Tetrachloro-m-xylene						
1	2.067	2.067	0.0	3722394	0.0488	
2	2.407	2.407	0.0	4596371	0.0496	
					RPD = 1.76	
$ 2 DCB Decachlorobiphenyl						
1	7.057	7.057	0.0	3954035	0.0470	
2	8.060	8.060	0.0	3478287	0.0495	
					RPD = 5.04	
4 alpha-BHC						
1	2.430	2.430	0.0	6233728	0.0479	
2	2.873	2.873	0.0	7621793	0.0493	
					RPD = 3.05	
6 gamma-BHC (Lindane)						
1	2.650	2.650	0.0	5587221	0.0481	
2	3.173	3.173	0.0	6850031	0.0493	
					RPD = 2.51	
7 beta-BHC						
1	2.713	2.713	0.0	2125232	0.0485	
2	3.240	3.240	0.0	2670281	0.0494	
					RPD = 1.94	
8 delta-BHC						
1	2.843	2.843	0.0	5637591	0.0479	
2	3.503	3.503	0.0	6967773	0.0494	
					RPD = 3.05	
9 Heptachlor						
1	3.007	3.007	0.0	4788593	0.0504	
2	3.583	3.583	0.0	6683808	0.0507	
					RPD = 0.66	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	On-Col Amt ng/ul	Flags
10 Aldrin						
1	3.250	3.250	0.0	4438547	0.0499	
2	3.897	3.897	0.0	6502840	0.0502	
					RPD = 0.71	
13 Heptachlor epoxide						
1	3.787	3.787	0.0	4447523	0.0511	
2	4.467	4.467	0.0	5505651	0.0504	
					RPD = 1.41	
14 gamma-Chlordane						
1	3.903	3.903	0.0	5071293	0.0488	
2	4.663	4.663	0.0	5896561	0.0494	
					RPD = 1.21	
15 alpha-Chlordane						
1	4.033	4.033	0.0	4941982	0.0491	
2	4.813	4.813	0.0	5536876	0.0497	
					RPD = 1.12	
16 4,4'-DDE						
1	4.130	4.130	0.0	4860529	0.0498	
2	4.993	4.993	0.0	5264822	0.0494	
					RPD = 0.82	
18 Endosulfan I						
1	4.160	4.160	0.0	4362757	0.0515	
2	4.870	4.870	0.0	4904908	0.0503	
					RPD = 2.42	
19 Dieldrin						
1	4.403	4.403	0.0	4557805	0.0511	
2	5.150	5.150	0.0	5565436	0.0501	
					RPD = 1.90	
20 Endrin						
1	4.633	4.633	0.0	3721212	0.0521	
2	5.453	5.453	0.0	4374514	0.0499	
					RPD = 4.19	
22 4,4'-DDD						
1	4.737	4.737	0.0	3516885	0.0500	
2	5.583	5.583	0.0	4349900	0.0494	
					RPD = 1.40	
23 Endosulfan II						
1	4.860	4.860	0.0	3650447	0.0518	
2	5.667	5.667	0.0	4515463	0.0503	
					RPD = 3.10	
26 4,4'-DDT						
1	5.023	5.023	0.0	3802090	0.0488	
2	5.903	5.903	0.0	4439370	0.0487	
					RPD = 0.33	
28 Endrin aldehyde						
1	5.290	5.290	0.0	3572805	0.0526	
2	6.003	6.003	0.0	3494317	0.0507	
					RPD = 3.68	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	On-Col Amt ng/ul	Flags
29 Methoxychlor						
1	5.547	5.547	0.0	2198007	0.0518	
2	6.590	6.590	0.0	2000906	0.0495	
					RPD = 4.54	
30 Endosulfan sulfate						
1	5.733	5.733	0.0	4612337	0.0524	
2	6.287	6.287	0.0	3983257	0.0500	
					RPD = 4.70	
31 Endrin ketone						
1	6.007	6.007	0.0	5449675	0.0528	
2	6.810	6.810	0.0	4529371	0.0498	
					RPD = 5.79	
S 35 BHC, Total						
1					0.1923	
2					0.1975	
					RPD = 2.64	

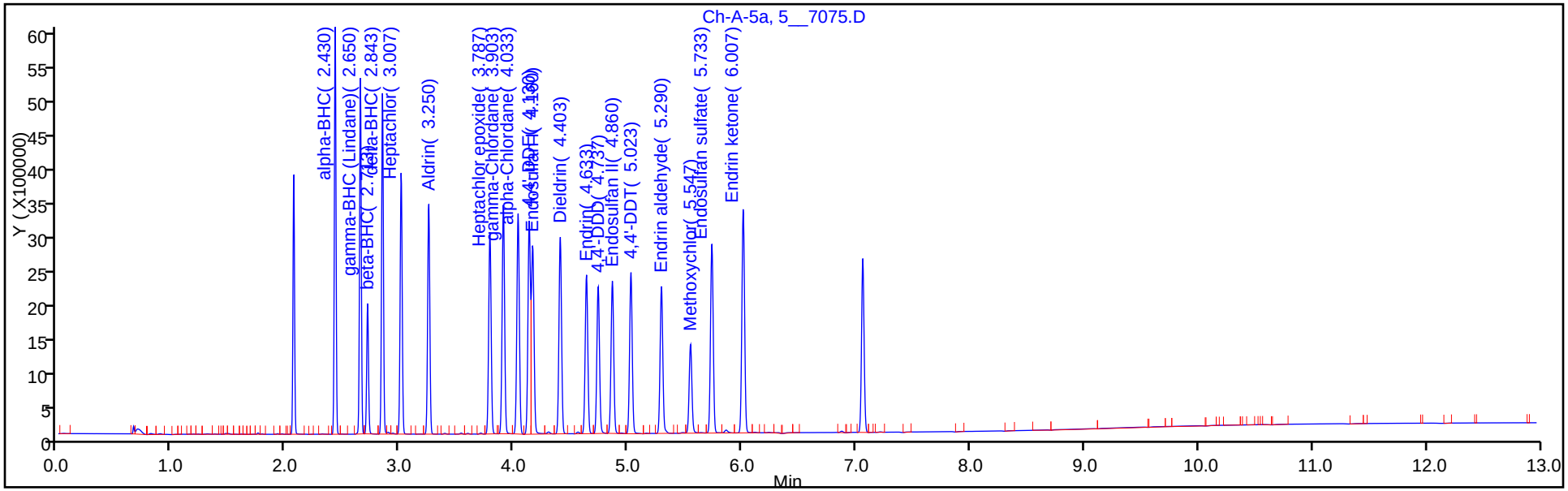
Report Date: 28-Mar-2014 10:56:04 Chrom Revision: 2.2 12-Mar-2014 11:19:24

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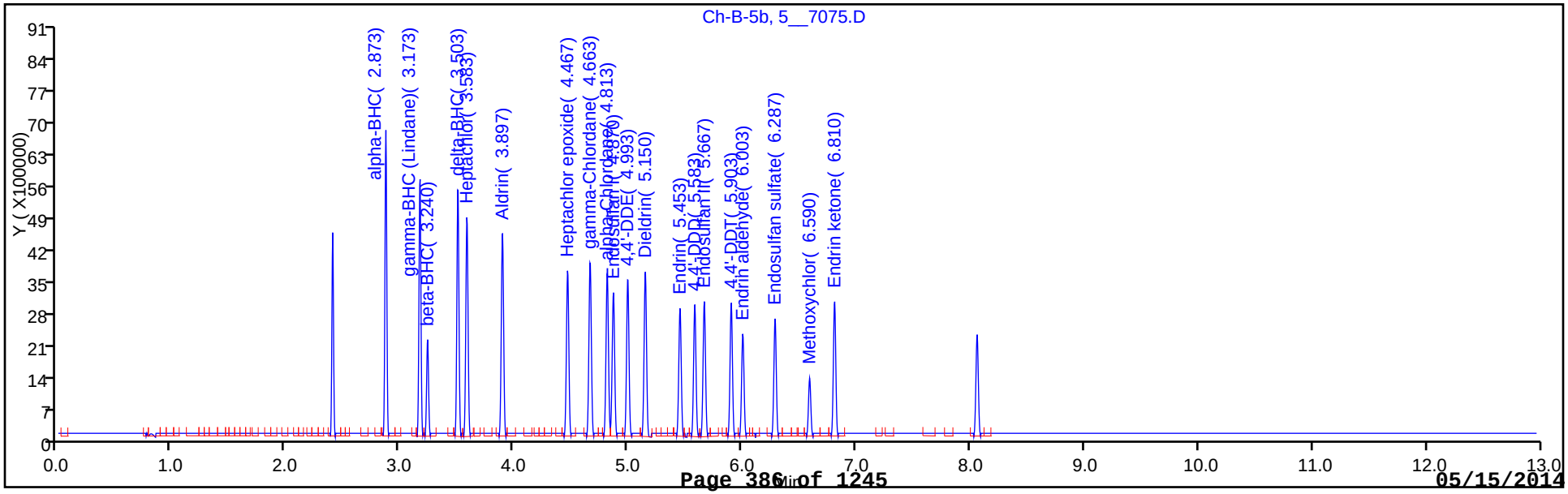
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Injection Date:	26-Mar-2014 13:56:55	Instrument ID:	HP6890-5	Operator ID:	buftchrom
Lims ID:	std			Worklist Smp#:	8
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8081-5	Limit Group:	GC - 8081B ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-05\20140326-30487.b\5__7076.D
Lims ID: std
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 26-Mar-2014 14:14:29 ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, None
Operator ID: buftchrom Instrument ID: HP6890-5
Sublist: chrom-8081-5*sub5

Method: \\Bufchrom\ChromData\HP6890-05\20140326-30487.b\8081-5.m
Limit Group: GC - 8081B ICAL
Last Update: 28-Mar-2014 10:56:06 Calib Date: 27-Mar-2014 19:29:41
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP6890-05\20140326-30487.b\5__7098.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK034

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	On-Col Amt ng/ul	Flags
$ 1 Tetrachloro-m-xylene						
1	2.067	2.067	0.0	665515	0.009545	
2	2.407	2.407	0.0	842277	0.009555	
					RPD = 0.11	
$ 2 DCB Decachlorobiphenyl						
1	7.057	7.057	0.0	650984	0.008498	
2	8.060	8.060	0.0	687524	0.009783	
					RPD = 14.05	
4 alpha-BHC						
1	2.430	2.430	0.0	1044859	0.009402	
2	2.873	2.873	0.0	1332304	0.009503	
					RPD = 1.07	
6 gamma-BHC (Lindane)						
1	2.650	2.650	0.0	948032	0.009405	
2	3.173	3.173	0.0	1224781	0.009551	
					RPD = 1.54	
7 beta-BHC						
1	2.713	2.713	0.0	393702	0.009587	
2	3.240	3.240	0.0	511240	0.009676	
					RPD = 0.92	
8 delta-BHC						
1	2.843	2.843	0.0	946331	0.009385	
2	3.507	3.503	0.004	1228037	0.009483	
					RPD = 1.03	
9 Heptachlor						
1	3.010	3.007	0.003	873059	0.009667	
2	3.587	3.583	0.004	1239547	0.009660	
					RPD = 0.08	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	On-Col Amt ng/ul	Flags
10 Aldrin						
1	3.250	3.250	0.0	778095	0.009578	
2	3.897	3.897	0.0	1185811	0.009644	
					RPD = 0.69	
13 Heptachlor epoxide						
1	3.787	3.787	0.0	834567	0.009610	
2	4.467	4.467	0.0	1037601	0.009727	
					RPD = 1.21	
14 gamma-Chlordane						
1	3.907	3.903	0.004	896842	0.009345	
2	4.667	4.663	0.004	1066434	0.009595	
					RPD = 2.64	
15 alpha-Chlordane						
1	4.037	4.033	0.004	884861	0.009428	
2	4.817	4.813	0.004	1013317	0.009624	
					RPD = 2.05	
16 4,4'-DDE						
1	4.133	4.130	0.003	794826	0.009303	
2	4.997	4.993	0.004	905498	0.009453	
					RPD = 1.60	
18 Endosulfan I						
1	4.163	4.160	0.003	869088	0.0100	
2	4.870	4.870	0.0	919914	0.009778	
					RPD = 2.70	
19 Dieldrin						
1	4.403	4.403	0.0	819655	0.009698	
2	5.150	5.150	0.0	1010870	0.009636	
					RPD = 0.65	
20 Endrin						
1	4.633	4.633	0.0	673375	0.009821	
2	5.453	5.453	0.0	813217	0.0100	
					RPD = 1.59	
22 4,4'-DDD						
1	4.740	4.737	0.003	597168	0.009496	
2	5.583	5.583	0.0	779542	0.009558	
					RPD = 0.65	
23 Endosulfan II						
1	4.863	4.860	0.003	665855	0.009682	
2	5.667	5.667	0.0	820690	0.009563	
					RPD = 1.24	
26 4,4'-DDT						
1	5.023	5.023	0.0	680307	0.009852	
2	5.903	5.903	0.0	772871	0.009513	
					RPD = 3.50	
28 Endrin aldehyde						
1	5.293	5.290	0.003	687788	0.009687	
2	6.007	6.003	0.004	638751	0.009558	
					RPD = 1.33	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	On-Col Amt ng/ul	Flags
29 Methoxychlor						
1	5.547	5.547	0.0	451036	0.0102	
2	6.593	6.590	0.003	371422	0.009772	
					RPD = 3.80	
30 Endosulfan sulfate						
1	5.733	5.733	0.0	879735	0.009797	
2	6.290	6.287	0.003	702348	0.009495	
					RPD = 3.14	
31 Endrin ketone						
1	6.010	6.007	0.003	1063108	0.009883	
2	6.810	6.810	0.0	822967	0.009589	
					RPD = 3.01	
S 35 BHC, Total						
1					0.0378	
2					0.0382	
					RPD = 1.14	

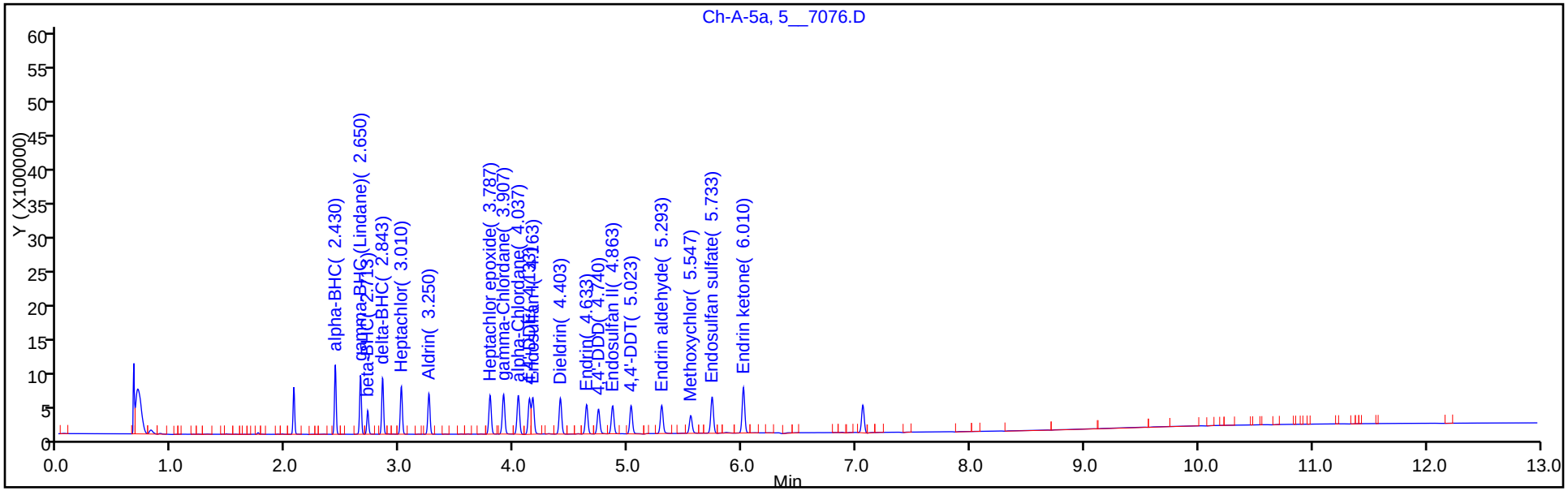
Report Date: 28-Mar-2014 10:56:07 Chrom Revision: 2.2 12-Mar-2014 11:19:24

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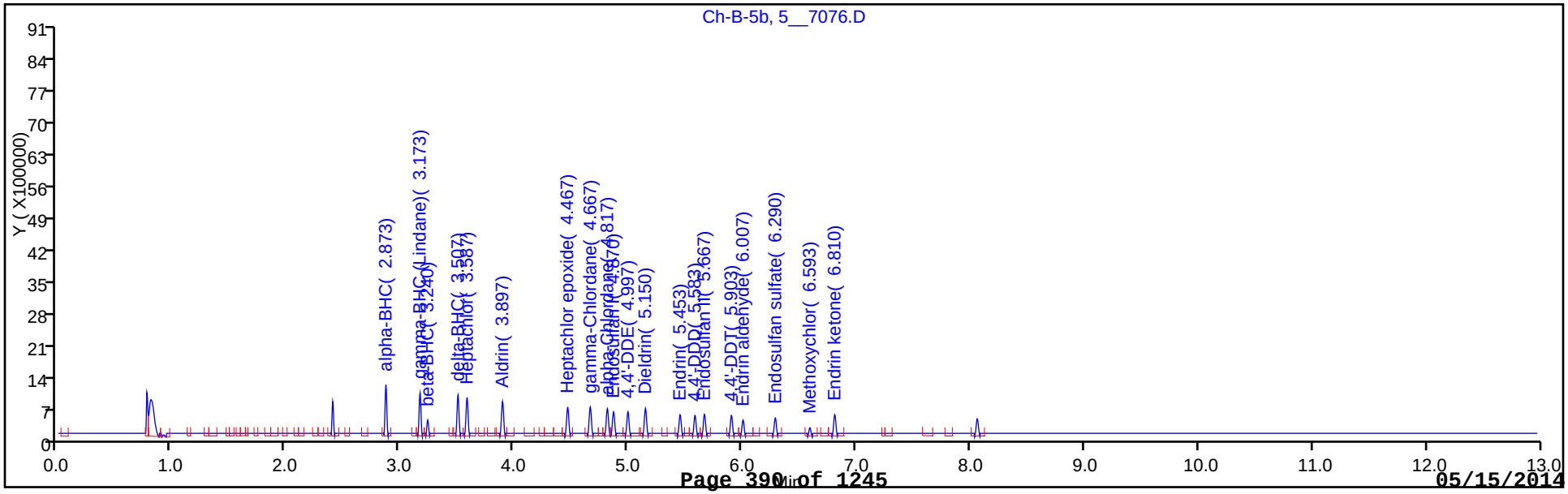
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Injection Date:	26-Mar-2014 14:14:29	Instrument ID:	HP6890-5	Operator ID:	buftchrom
Lims ID:	std			Worklist Smp#:	9
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8081-5	Limit Group:	GC - 8081B ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-05\20140326-30487.b\5__7077.D
Lims ID: std
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 26-Mar-2014 14:32:16 ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, None
Operator ID: buftchrom Instrument ID: HP6890-5
Sublist: chrom-8081-5*sub5

Method: \\Bufchrom\ChromData\HP6890-05\20140326-30487.b\8081-5.m
Limit Group: GC - 8081B ICAL
Last Update: 28-Mar-2014 10:56:09 Calib Date: 27-Mar-2014 19:29:41
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP6890-05\20140326-30487.b\5__7098.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK034

First Level Reviewer: WolfL Date: 27-Mar-2014 10:54:26

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	On-Col Amt ng/ul	Flags
$ 1 Tetrachloro-m-xylene						
1	2.067	2.067	0.0	335810	0.005315	
2	2.407	2.407	0.0	438357	0.005243	
					RPD = 1.35	
$ 2 DCB Decachlorobiphenyl						
1	7.060	7.057	0.003	424873	0.005861	
2	8.060	8.060	0.0	361264	0.005144	
					RPD = 13.03	
4 alpha-BHC						
1	2.430	2.430	0.0	512054	0.005454	
2	2.873	2.873	0.0	667167	0.005290	
					RPD = 3.04	
6 gamma-BHC (Lindane)						
1	2.650	2.650	0.0	471437	0.005430	
2	3.170	3.173	-0.003	618874	0.005267	
					RPD = 3.04	
7 beta-BHC						
1	2.713	2.713	0.0	203450	0.005313	
2	3.240	3.240	0.0	268267	0.005202	
					RPD = 2.12	
8 delta-BHC						
1	2.843	2.843	0.0	467274	0.005455	
2	3.503	3.503	0.0	625816	0.005299	
					RPD = 2.91	
9 Heptachlor						
1	3.007	3.007	0.0	437280	0.005134	
2	3.583	3.583	0.0	635953	0.005106	
					RPD = 0.54	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	On-Col Amt ng/ul	Flags
10 Aldrin						
1	3.250	3.250	0.0	381512	0.005211	
2	3.897	3.897	0.0	597534	0.005152	
					RPD = 1.13	
13 Heptachlor epoxide						
1	3.787	3.787	0.0	442442	0.005106	
2	4.467	4.467	0.0	528889	0.005097	
					RPD = 0.18	
14 gamma-Chlordane						
1	3.903	3.903	0.0	480067	0.005402	
2	4.663	4.663	0.0	538224	0.005239	
					RPD = 3.07	
15 alpha-Chlordane						
1	4.033	4.033	0.0	467154	0.005339	
2	4.813	4.813	0.0	514774	0.005207	
					RPD = 2.51	
16 4,4'-DDE						
1	4.133	4.130	0.003	396102	0.005330	
2	4.997	4.993	0.004	452751	0.005303	
					RPD = 0.50	
18 Endosulfan I						
1	4.160	4.160	0.0	434678	0.004888	
2	4.870	4.870	0.0	458113	0.005083	
					RPD = 3.91	
19 Dieldrin						
1	4.403	4.403	0.0	400748	0.005063	
2	5.150	5.150	0.0	508026	0.005168	
					RPD = 2.06	
20 Endrin						
1	4.633	4.633	0.0	323370	0.004969	
2	5.453	5.453	0.0	371724	0.005024	
					RPD = 1.11	
22 4,4'-DDD						
1	4.737	4.737	0.0	290576	0.005237	
2	5.583	5.583	0.0	394133	0.005262	
					RPD = 0.48	
23 Endosulfan II						
1	4.860	4.860	0.0	335538	0.005017	
2	5.667	5.667	0.0	423937	0.005194	
					RPD = 3.46	
26 4,4'-DDT						
1	5.023	5.023	0.0	302116	0.005129	
2	5.903	5.903	0.0	381785	0.005335	
					RPD = 3.95	
28 Endrin aldehyde						
1	5.293	5.290	0.003	368774	0.004941	
2	6.003	6.003	0.0	332764	0.005150	
					RPD = 4.14	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	On-Col Amt ng/ul	Flags
29 Methoxychlor						
1	5.547	5.547	0.0	226577	0.004795	
2	6.590	6.590	0.0	182201	0.005155	
					RPD = 7.24	
30 Endosulfan sulfate						
1	5.733	5.733	0.0	452417	0.004925	
2	6.287	6.287	0.0	357994	0.005248	
					RPD = 6.36	
31 Endrin ketone						
1	6.010	6.007	0.003	547660	0.004840	
2	6.810	6.810	0.0	418708	0.005201	
					RPD = 7.18	
S 35 BHC, Total						
1					0.0217	
2					0.0211	
					RPD = 2.78	

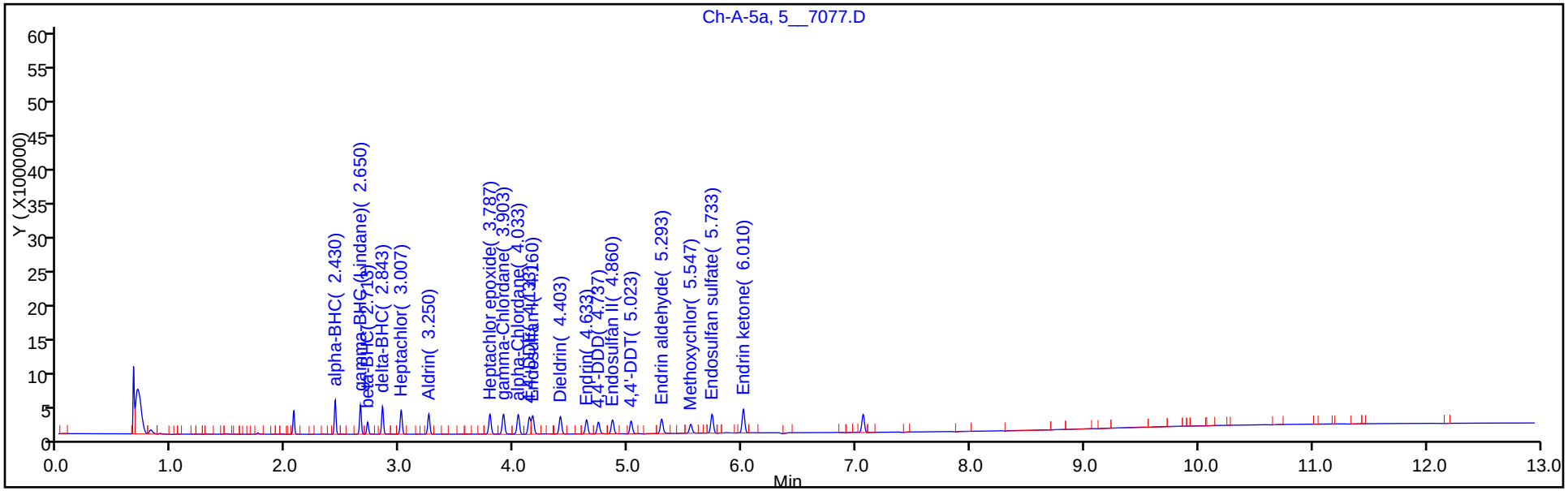
Report Date: 28-Mar-2014 10:56:10 Chrom Revision: 2.2 12-Mar-2014 11:19:24

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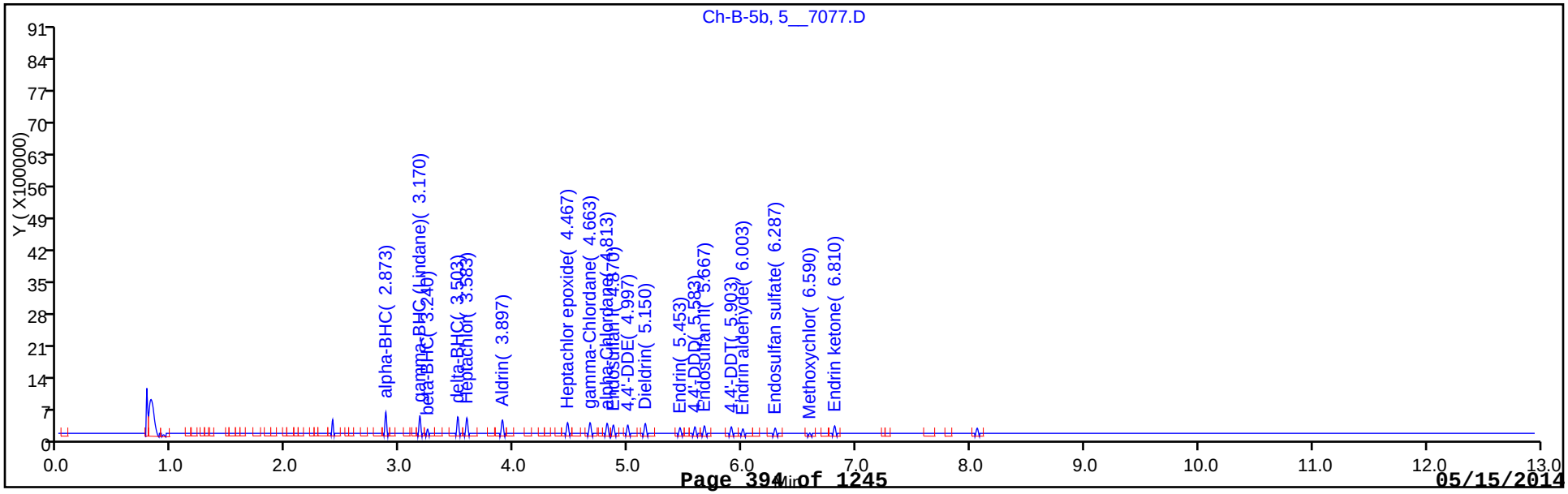
Data File: \\Bufchrom\ChromData\HP6890-05\20140326-30487.b\5__7077.D

Injection Date:	26-Mar-2014 14:32:16	Instrument ID:	HP6890-5	Operator ID:	buftchrom
Lims ID:	std			Worklist Smp#:	10
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8081-5	Limit Group:	GC - 8081B ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1 Analy Batch No.: 172072

SDG No.:

Instrument ID: HP6890-5 GC Column: RTX-CLPI ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/27/2014 14:46 Calibration End Date: 03/27/2014 15:57 Calibration ID: 17852

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 480-172072/19	5__7086.D
Level 2	STD 480-172072/18	5__7085.D
Level 3	STD 480-172072/17	5__7084.D
Level 4	STD 480-172072/16	5__7083.D
Level 5	STD 480-172072/15	5__7082.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5						RT WINDOW	AVG RT
Toxaphene Peak 1	4.850	4.847	4.850	4.847	4.847						4.820 - 4.880	4.848
Toxaphene Peak 2	5.207	5.207	5.207	5.203	5.203						5.177 - 5.237	5.205
Toxaphene Peak 3	5.623	5.623	5.623	5.623	5.623						5.593 - 5.653	5.623

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1 Analy Batch No.: 172072

SDG No.:

Instrument ID: HP6890-5 GC Column: RTX-CLPI ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/27/2014 14:46 Calibration End Date: 03/27/2014 15:57 Calibration ID: 17852

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 480-172072/19	5__7086.D
Level 2	STD 480-172072/18	5__7085.D
Level 3	STD 480-172072/17	5__7084.D
Level 4	STD 480-172072/16	5__7083.D
Level 5	STD 480-172072/15	5__7082.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 3	LVL 4		B	M1	M2								
Toxaphene Peak 1	3794080 4140136	3715030	4078764	4049375	Lin1	-24701.755	4121802.15							1.0000		0.9900
Toxaphene Peak 2	4395400 4059263	3684760	4048032	4013142	Lin1	745.053671	4035102.77							0.9990		0.9900
Toxaphene Peak 3	4409920 4159420	3945180	4217742	4086903	Lin1	4081.18137	4136353.05							1.0000		0.9900

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

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1 Analy Batch No.: 172072

SDG No.:

Instrument ID: HP6890-5 GC Column: RTX-CLPI ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/27/2014 14:46 Calibration End Date: 03/27/2014 15:57 Calibration ID: 17852

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 480-172072/19	5__7086.D
Level 2	STD 480-172072/18	5__7085.D
Level 3	STD 480-172072/17	5__7084.D
Level 4	STD 480-172072/16	5__7083.D
Level 5	STD 480-172072/15	5__7082.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
		LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
Toxaphene Peak 1	Lin1	189704	371503	2039382	4049375	6210204	0.0500	0.100	0.500	1.00	1.50
Toxaphene Peak 2	Lin1	219770	368476	2024016	4013142	6088895	0.0500	0.100	0.500	1.00	1.50
Toxaphene Peak 3	Lin1	220496	394518	2108871	4086903	6239130	0.0500	0.100	0.500	1.00	1.50

Curve Type Legend:
Lin1 = Linear 1/conc

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-05\20140326-30487.b\5__7082.D
Lims ID: std
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 27-Mar-2014 14:46:52 ALS Bottle#: 0 Worklist Smp#: 15
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, None
Operator ID: buftchrom Instrument ID: HP6890-5
Sublist: chrom-8081-5*sub7

Method: \\Bufchrom\ChromData\HP6890-05\20140326-30487.b\8081-5.m
Limit Group: GC - 8081B ICAL
Last Update: 28-Mar-2014 10:55:43 Calib Date: 27-Mar-2014 19:29:41
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP6890-05\20140326-30487.b\5__7098.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK034

First Level Reviewer: WolfL Date: 27-Mar-2014 15:52:23

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	On-Col Amt ng/ul	Flags
24 Toxaphene						
1	4.847	4.850	-0.003	6210204	1.51	
1	5.203	5.207	-0.004	6088895	1.51	
1	5.623	5.623	0.0	6239130	1.51	
		Average of Peak Amounts =			1.51	
2	5.750	5.757	-0.007	9007467	1.52	
2	6.100	6.103	-0.003	4883417	1.51	
2	6.523	6.527	-0.004	4202084	1.52	
		Average of Peak Amounts =			1.52	
				RPD =	0.47	

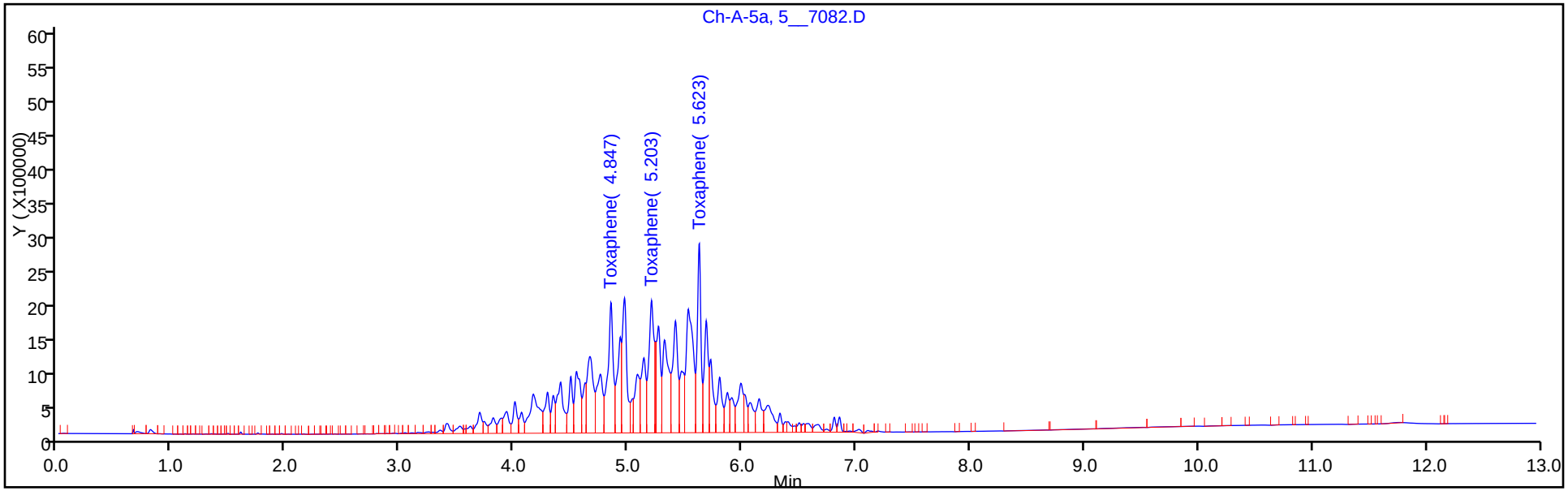
Report Date: 28-Mar-2014 10:55:44 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Buffalo

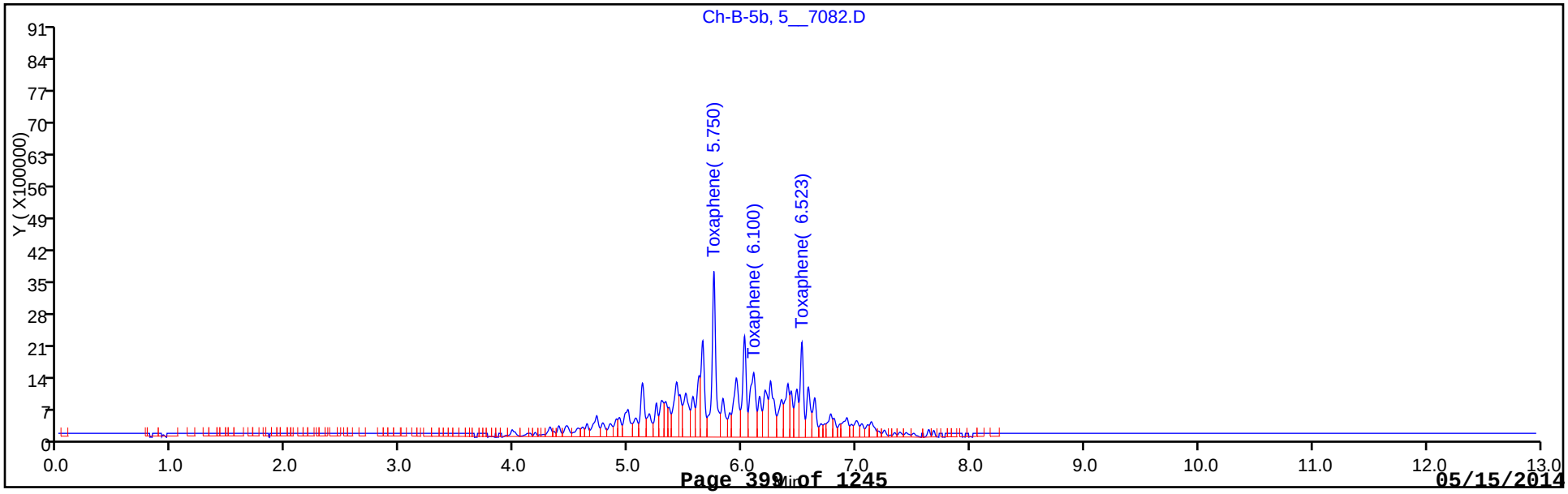
Data File: \\Bufchrom\ChromData\HP6890-05\20140326-30487.b\5__7082.D

Injection Date:	27-Mar-2014 14:46:52	Instrument ID:	HP6890-5	Operator ID:	buftchrom
Lims ID:	std			Worklist Smp#:	15
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8081-5	Limit Group:	GC - 8081B ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-05\20140326-30487.b\5__7083.D
Lims ID: std
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 27-Mar-2014 15:04:31 ALS Bottle#: 0 Worklist Smp#: 16
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, None
Operator ID: buftchrom Instrument ID: HP6890-5
Sublist: chrom-8081-5*sub7

Method: \\Bufchrom\ChromData\HP6890-05\20140326-30487.b\8081-5.m
Limit Group: GC - 8081B ICAL
Last Update: 28-Mar-2014 10:55:46 Calib Date: 27-Mar-2014 19:29:41
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP6890-05\20140326-30487.b\5__7098.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK034

First Level Reviewer: WolfL Date: 27-Mar-2014 15:55:07

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	On-Col Amt ng/ul	Flags
24 Toxaphene						
1	4.847	4.850	-0.003	4049375	0.9884	
1	5.203	5.207	-0.004	4013142	0.99	
1	5.623	5.623	0.0	4086903	0.9871	
		Average of Peak Amounts =			0.9900	
2	5.750	5.757	-0.007	5764979	0.9748	
2	6.100	6.103	-0.003	3118596	0.9703	
2	6.523	6.527	-0.004	2702296	0.9789	
		Average of Peak Amounts =			0.9747	
				RPD =	1.56	

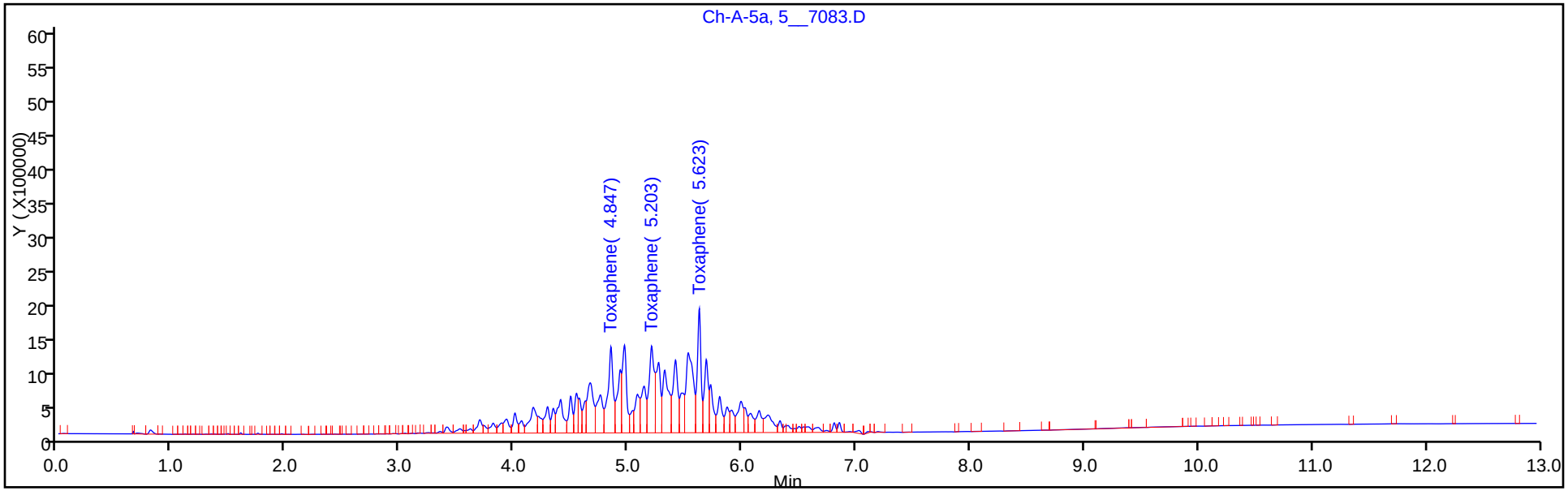
Report Date: 28-Mar-2014 10:55:46 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Buffalo

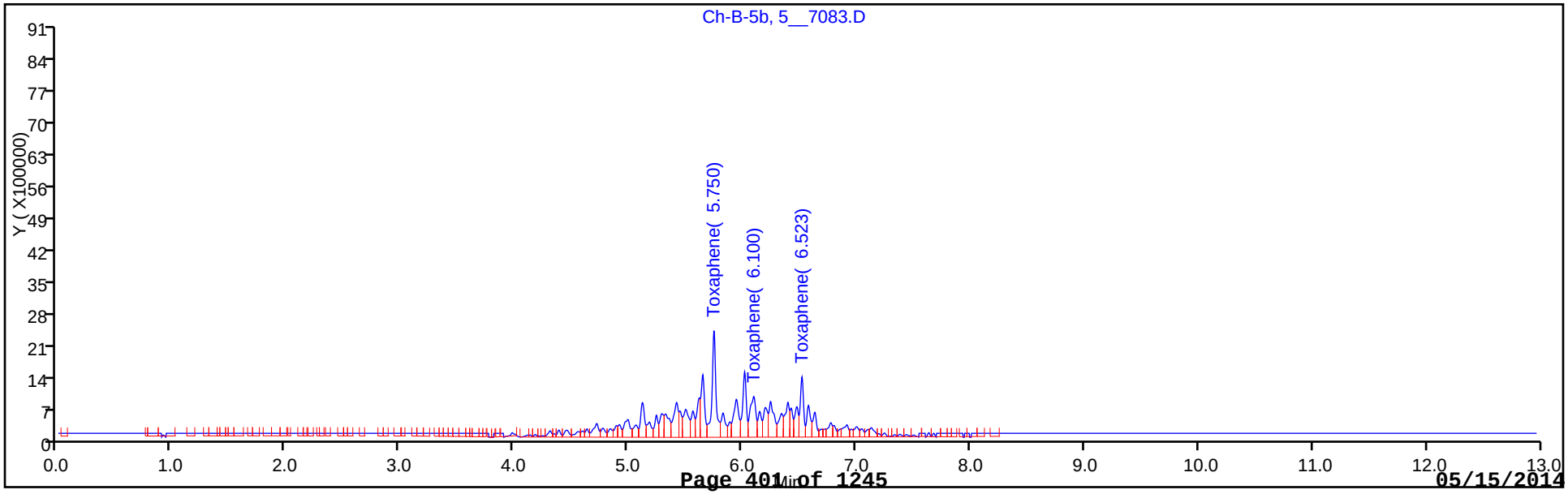
Data File: \\Bufchrom\ChromData\HP6890-05\20140326-30487.b\5__7083.D

Injection Date:	27-Mar-2014 15:04:31	Instrument ID:	HP6890-5	Operator ID:	buftchrom
Lims ID:	std			Worklist Smp#:	16
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8081-5	Limit Group:	GC - 8081B ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-05\20140326-30487.b\5__7084.D
Lims ID: std
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 27-Mar-2014 15:22:15 ALS Bottle#: 0 Worklist Smp#: 17
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, None
Operator ID: buftchrom Instrument ID: HP6890-5
Sublist: chrom-8081-5*sub7

Method: \\Bufchrom\ChromData\HP6890-05\20140326-30487.b\8081-5.m
Limit Group: GC - 8081B ICAL
Last Update: 28-Mar-2014 10:55:49 Calib Date: 27-Mar-2014 19:29:41
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP6890-05\20140326-30487.b\5__7098.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK034

First Level Reviewer: WolfL Date: 27-Mar-2014 15:55:26

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	On-Col Amt ng/ul	Flags
24 Toxaphene						M
1	4.850	4.850	0.0	2039382	0.5008	M
1	5.207	5.207	0.0	2024016	0.5014	M
1	5.623	5.623	0.0	2108871	0.5089	M
		Average of Peak Amounts =			0.5037	
2	5.757	5.757	0.0	2976739	0.5069	M
2	6.103	6.103	0.0	1650339	0.5178	M
2	6.527	6.527	0.0	1381423	0.5049	M
		Average of Peak Amounts =			0.5099	
					RPD = 1.23	

QC Flag Legend

Review Flags
M - Manually Integrated

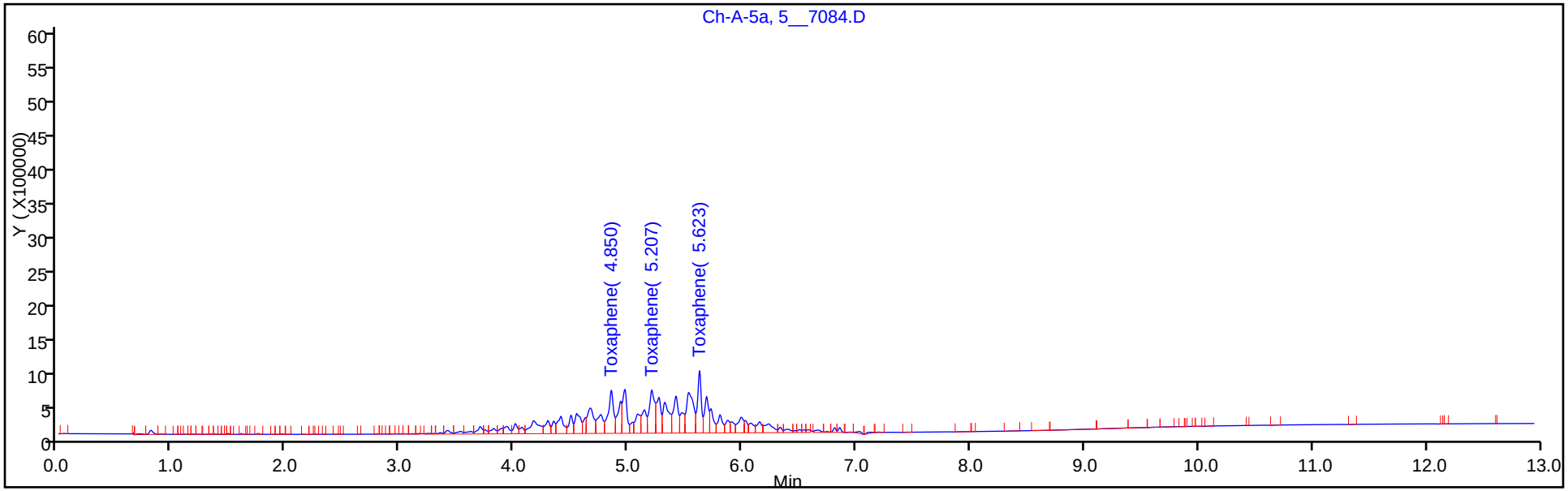
Report Date: 28-Mar-2014 10:55:50 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Buffalo

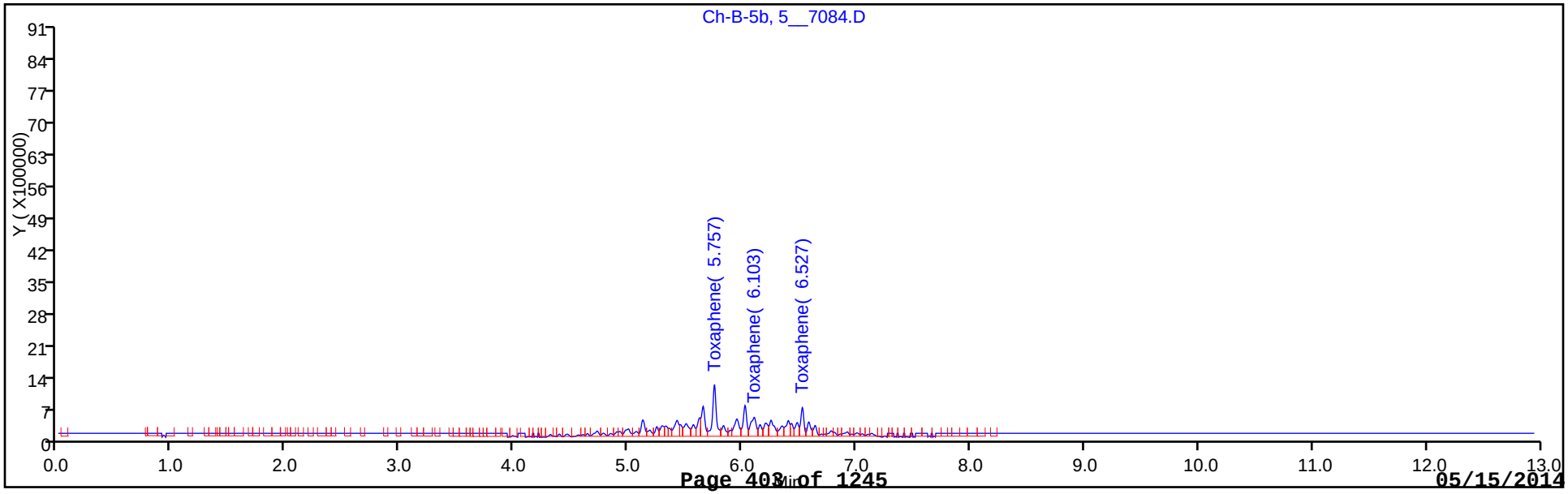
Data File: \\Bufchrom\ChromData\HP6890-05\20140326-30487.b\5__7084.D

Injection Date:	27-Mar-2014 15:22:15	Instrument ID:	HP6890-5	Operator ID:	buftchrom
Lims ID:	std			Worklist Smp#:	17
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8081-5	Limit Group:	GC - 8081B ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value

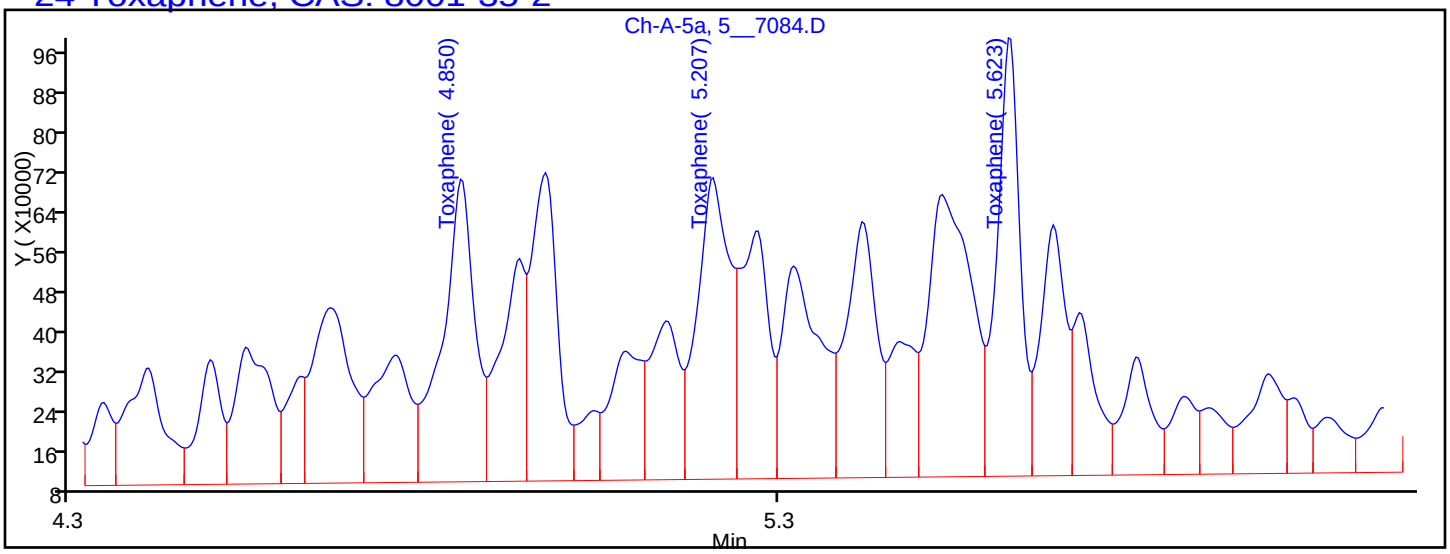


Report Date: 28-Mar-2014 10:55:50 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Buffalo

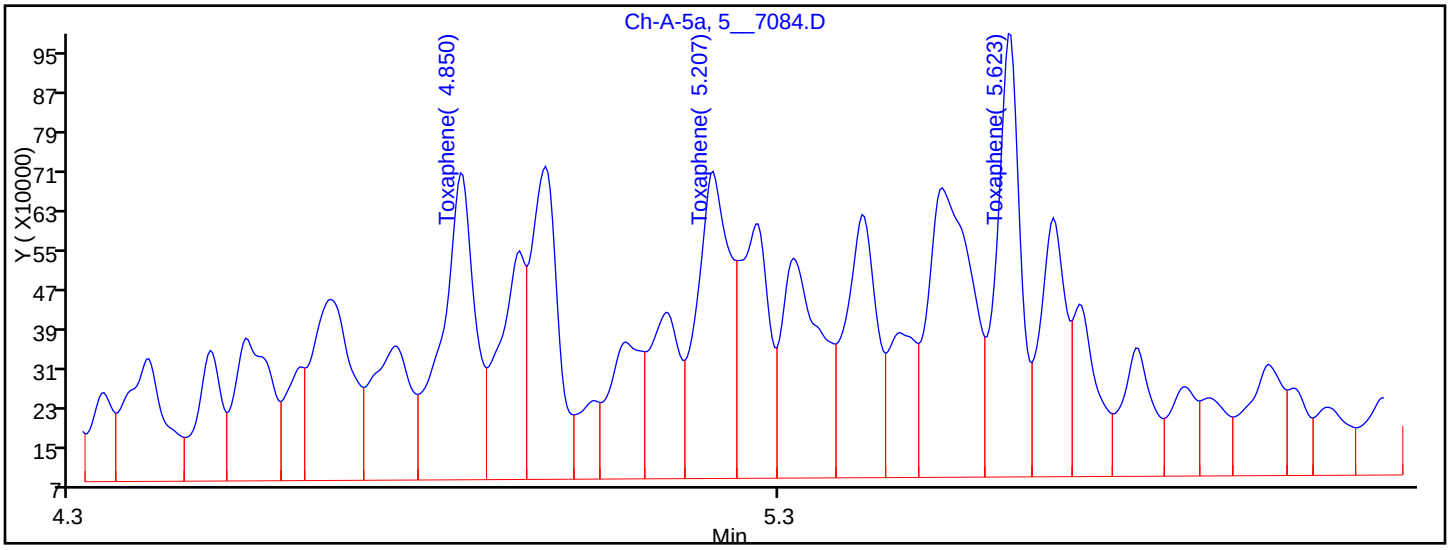
Data File: \\Bufchrom\ChromData\HP6890-05\20140326-30487.b\5__7084.D
Injection Date: 27-Mar-2014 15:22:15 Instrument ID: HP6890-5
Lims ID: std
Client ID:
Operator ID: buftchrom ALS Bottle#: 0 Worklist Smp#: 17
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8081-5 Limit Group: GC - 8081B ICAL
Column: Detector Ch-A-6A58132

24 Toxaphene, CAS: 8001-35-2



Processing Integration Results

RT = 4.850	Response = 1932233	M
RT = 5.207	Response = 1931227	M
RT = 5.623	Response = 2012483	M



Manual Integration Results

RT = 4.850	Response = 2039382	M
RT = 5.207	Response = 2024016	M
RT = 5.623	Response = 2108871	M

Reviewer: WolfL, 27-Mar-2014 15:56:34
Audit Action: Assigned New Baseline
Audit Reason: Incomplete Integration

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-05\20140326-30487.b\5__7085.D
Lims ID: std
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 27-Mar-2014 15:39:59 ALS Bottle#: 0 Worklist Smp#: 18
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, None
Operator ID: buftchrom Instrument ID: HP6890-5
Sublist: chrom-8081-5*sub7

Method: \\Bufchrom\ChromData\HP6890-05\20140326-30487.b\8081-5.m
Limit Group: GC - 8081B ICAL
Last Update: 28-Mar-2014 10:55:51 Calib Date: 27-Mar-2014 19:29:41
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP6890-05\20140326-30487.b\5__7098.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK034

First Level Reviewer: WolfL Date: 27-Mar-2014 15:56:13

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	On-Col Amt ng/ul	Flags
24 Toxaphene						M
1	4.847	4.850	-0.003	371503	0.0961	M
1	5.207	5.207	0.0	368476	0.0911	M
1	5.623	5.623	0.0	394518	0.0944	M
		Average of Peak Amounts =			0.0939	
2	5.753	5.757	-0.004	544578	0.0988	M
2	6.103	6.103	0.0	284524	0.0970	M
2	6.523	6.527	-0.004	248446	0.0984	M
		Average of Peak Amounts =			0.0981	
					RPD = 4.35	

QC Flag Legend

Review Flags
M - Manually Integrated

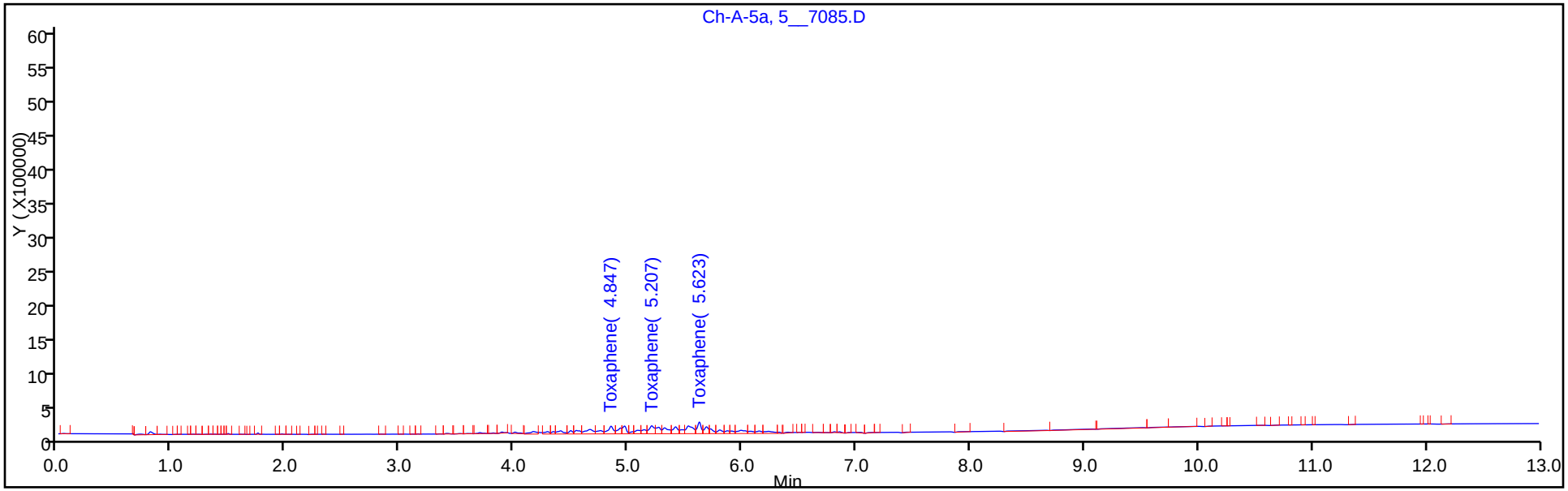
Report Date: 28-Mar-2014 10:55:52 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Buffalo

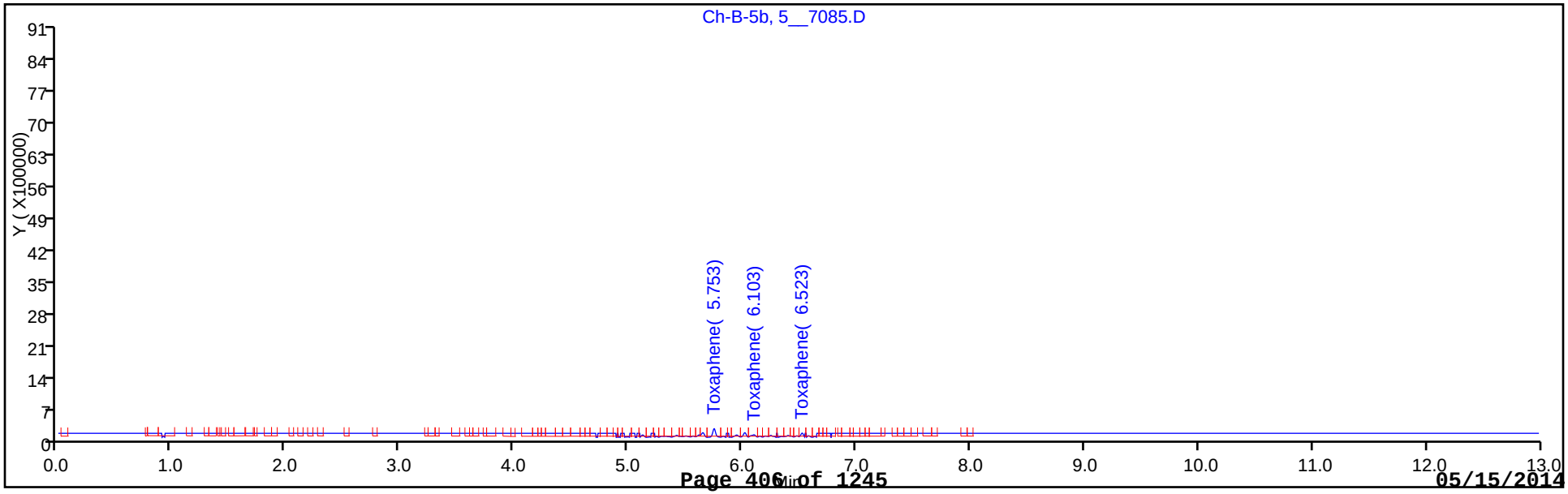
Data File: \\Bufchrom\ChromData\HP6890-05\20140326-30487.b\5__7085.D

Injection Date:	27-Mar-2014 15:39:59	Instrument ID:	HP6890-5	Operator ID:	buftchrom
Lims ID:	std			Worklist Smp#:	18
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8081-5	Limit Group:	GC - 8081B ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



Report Date: 28-Mar-2014 10:55:52 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-05\20140326-30487.b\5__7085.D

Injection Date: 27-Mar-2014 15:39:59 Instrument ID: HP6890-5

Lims ID: std

Client ID:

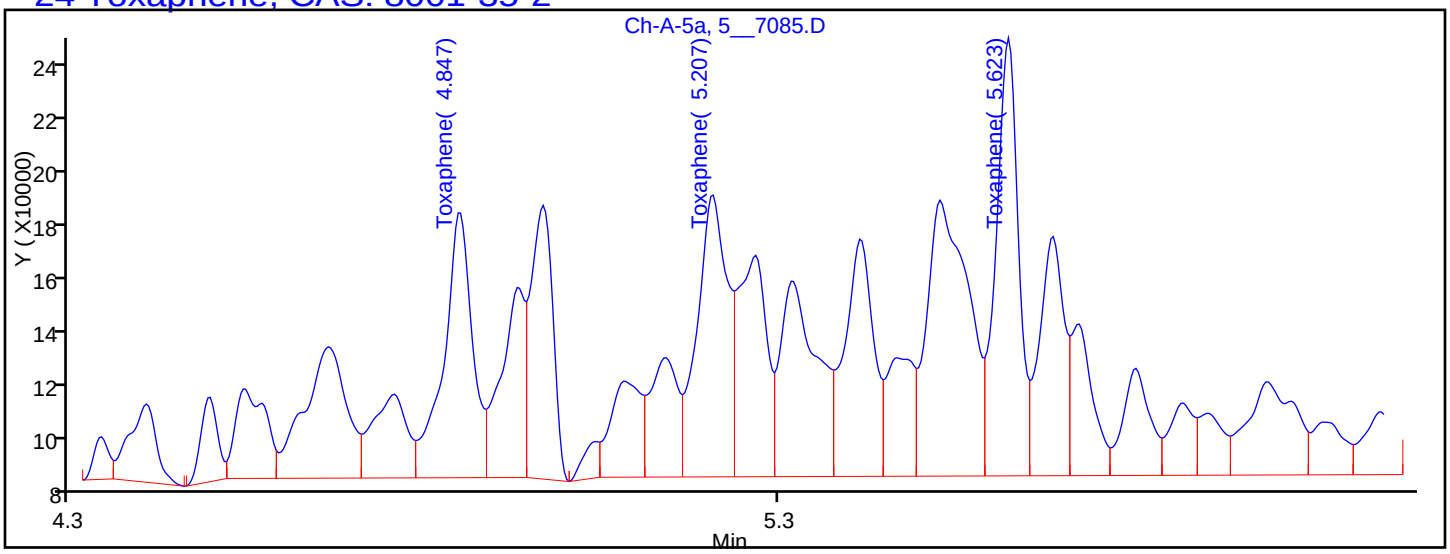
Operator ID: buftchrom ALS Bottle#: 0 Worklist Smp#: 18

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 8081-5 Limit Group: GC - 8081B ICAL

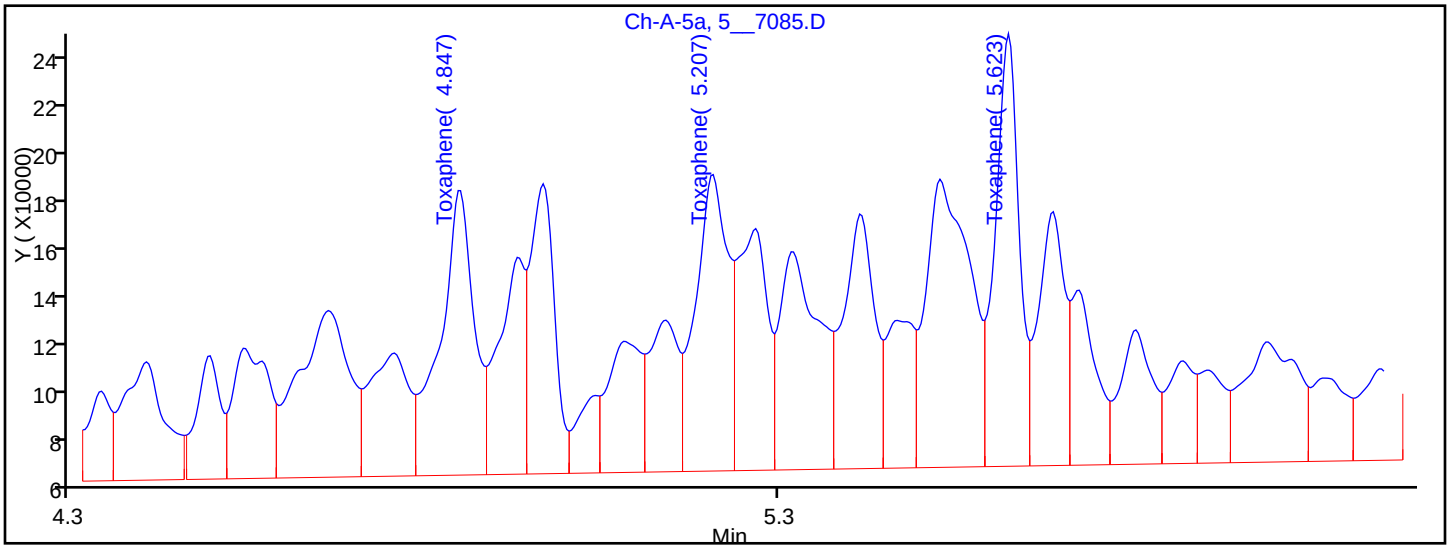
Column: Detector Ch-A-6A58132

24 Toxaphene, CAS: 8001-35-2



Processing Integration Results

RT = 4.847	Response = 261142	M
RT = 5.207	Response = 293293	M
RT = 5.623	Response = 335353	M



Manual Integration Results

RT = 4.847	Response = 371503	M
RT = 5.207	Response = 368476	M
RT = 5.623	Response = 394518	M

Reviewer: WolfL, 27-Mar-2014 15:56:13

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-05\20140326-30487.b\5__7086.D
Lims ID: std
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 27-Mar-2014 15:57:34 ALS Bottle#: 0 Worklist Smp#: 19
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, None
Operator ID: buftchrom Instrument ID: HP6890-5
Sublist: chrom-8081-5*sub7

Method: \\Bufchrom\ChromData\HP6890-05\20140326-30487.b\8081-5.m
Limit Group: GC - 8081B ICAL
Last Update: 28-Mar-2014 10:55:53 Calib Date: 27-Mar-2014 19:29:41
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP6890-05\20140326-30487.b\5__7098.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK034

First Level Reviewer: WolfL Date: 28-Mar-2014 10:21:32

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	On-Col Amt ng/ul	Flags
24 Toxaphene						M
1	4.850	4.850	0.0	189704	0.0520	M
1	5.207	5.207	0.0	219770	0.0543	M
1	5.623	5.623	0.0	220496	0.0523	M
		Average of Peak Amounts =			0.0529	
2	5.753	5.757	-0.004	257003	0.0505	M
2	6.103	6.103	0.0	134605	0.0508	M
2	6.527	6.527	0.0	115687	0.0508	M
		Average of Peak Amounts =			0.0507	
					RPD = 4.21	

QC Flag Legend

Review Flags
M - Manually Integrated

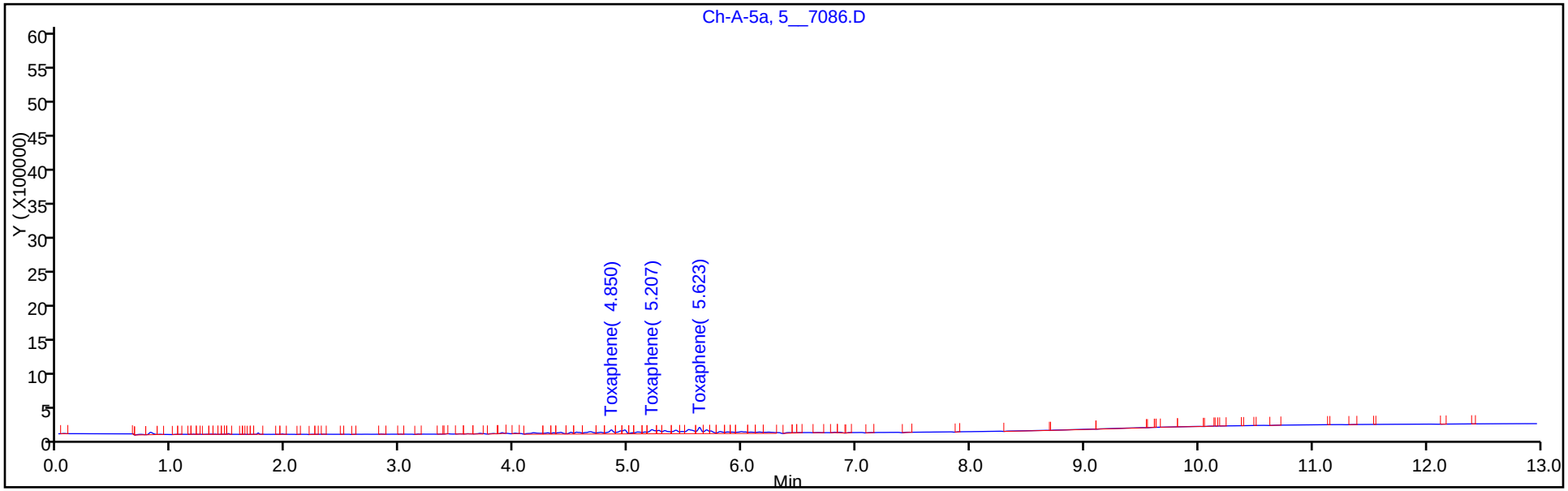
Report Date: 28-Mar-2014 10:55:54 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Buffalo

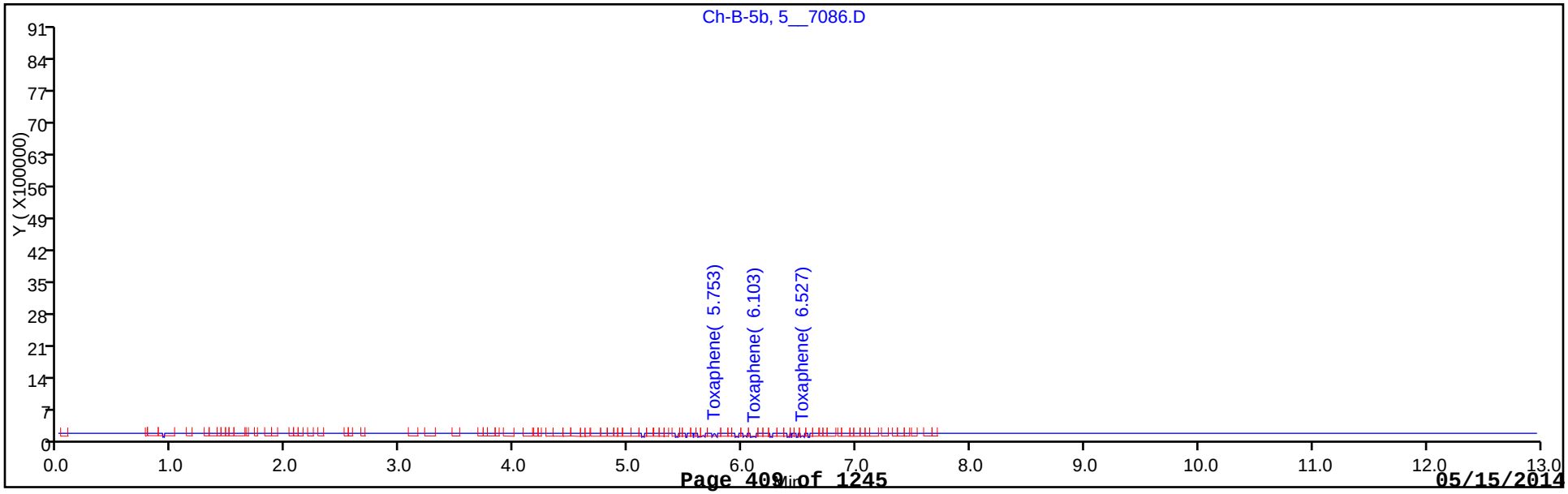
Data File: \\Bufchrom\ChromData\HP6890-05\20140326-30487.b\5__7086.D

Injection Date:	27-Mar-2014 15:57:34	Instrument ID:	HP6890-5	Operator ID:	buftchrom
Lims ID:	std			Worklist Smp#:	19
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8081-5	Limit Group:	GC - 8081B ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value

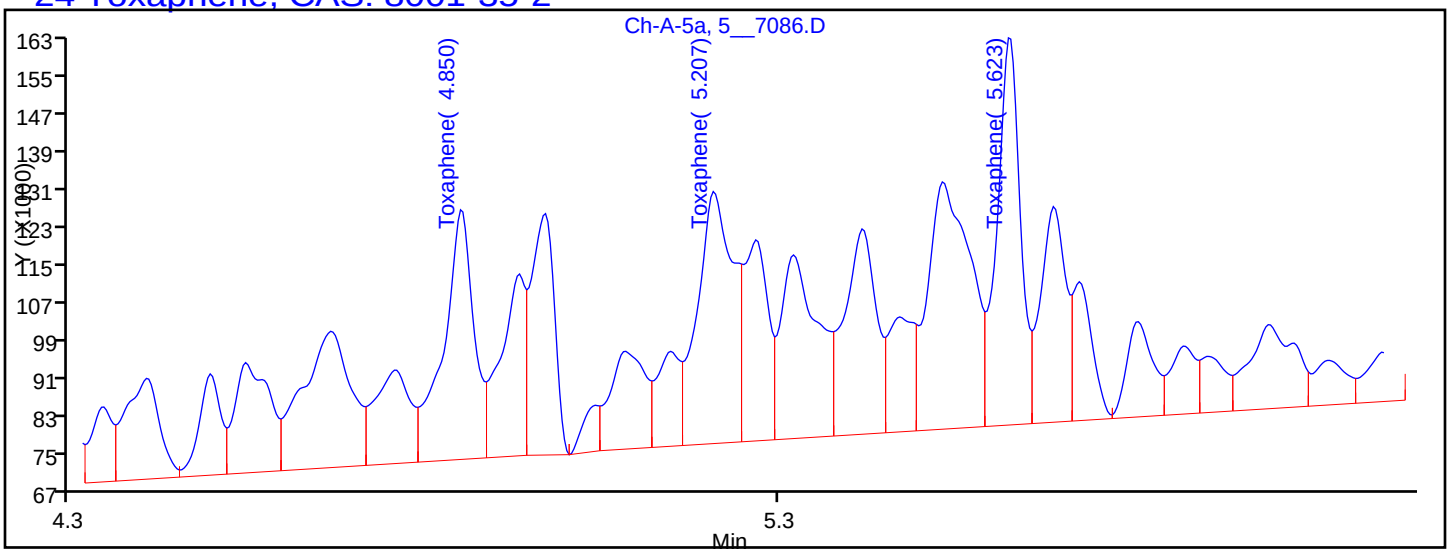


Report Date: 28-Mar-2014 10:55:54 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Buffalo

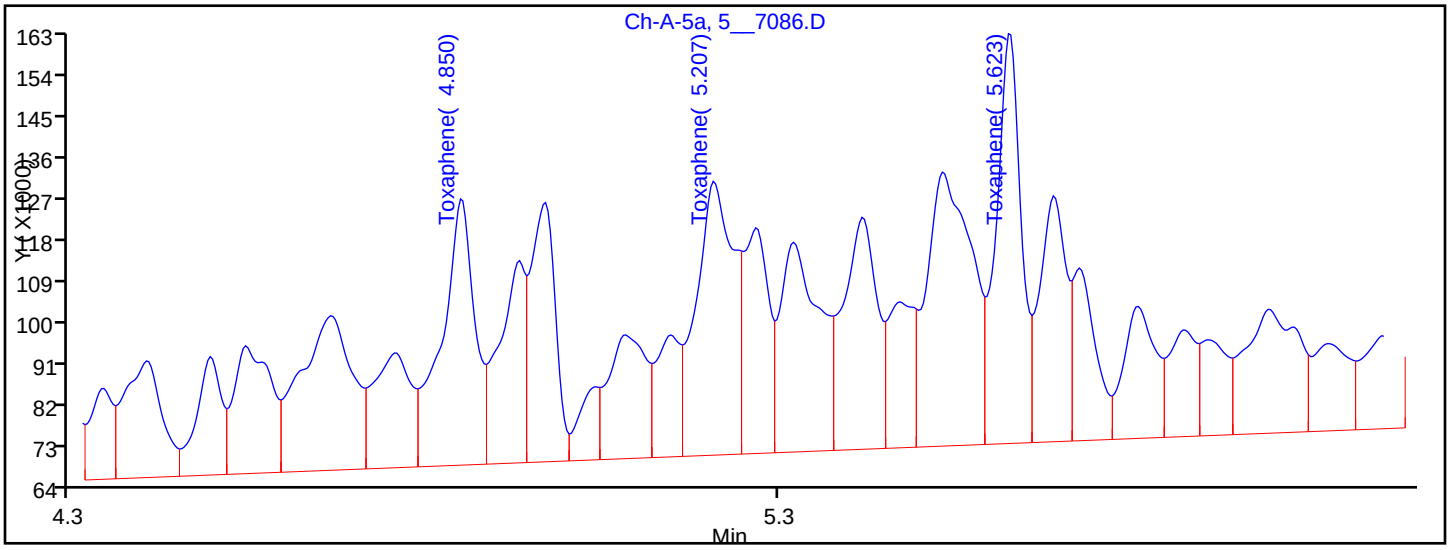
Data File: \\Bufchrom\ChromData\HP6890-05\20140326-30487.b\5__7086.D
Injection Date: 27-Mar-2014 15:57:34 Instrument ID: HP6890-5
Lims ID: std
Client ID:
Operator ID: buftchrom ALS Bottle#: 0 Worklist Smp#: 19
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8081-5 Limit Group: GC - 8081B ICAL
Column: Detector Ch-A-6A58132

24 Toxaphene, CAS: 8001-35-2



Processing Integration Results

RT = 4.850	Response = 156572	M
RT = 5.207	Response = 185295	M
RT = 5.623	Response = 187518	M



Manual Integration Results

RT = 4.850	Response = 189704	M
RT = 5.207	Response = 219770	M
RT = 5.623	Response = 220496	M

Reviewer: WolfL, 28-Mar-2014 10:21:32
Audit Action: Assigned New Baseline
Audit Reason: Incomplete Integration

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1 Analy Batch No.: 172072

SDG No.:

Instrument ID: HP6890-5 GC Column: RTX-CLPII ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/27/2014 14:46 Calibration End Date: 03/27/2014 15:57 Calibration ID: 17853

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 480-172072/19	5__7086.D
Level 2	STD 480-172072/18	5__7085.D
Level 3	STD 480-172072/17	5__7084.D
Level 4	STD 480-172072/16	5__7083.D
Level 5	STD 480-172072/15	5__7082.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5						RT WINDOW	AVG RT
Toxaphene Peak 1	5.753	5.753	5.757	5.750	5.750						5.727 - 5.787	5.753
Toxaphene Peak 2	6.103	6.103	6.103	6.100	6.100						6.073 - 6.133	6.102
Toxaphene Peak 3	6.527	6.523	6.527	6.523	6.523						6.497 - 6.557	6.525

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1 Analy Batch No.: 172072

SDG No.:

Instrument ID: HP6890-5 GC Column: RTX-CLPII ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/27/2014 14:46 Calibration End Date: 03/27/2014 15:57 Calibration ID: 17853

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 480-172072/19	5__7086.D
Level 2	STD 480-172072/18	5__7085.D
Level 3	STD 480-172072/17	5__7084.D
Level 4	STD 480-172072/16	5__7083.D
Level 5	STD 480-172072/15	5__7082.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 3	LVL 4		B	M1	M2								
Toxaphene Peak 1	5140060 6004978	5445780	5953478	5764979	Lin1	-44165.500	5959236.03							1.0000		0.9900
Toxaphene Peak 2	2692100 3255611	2845240	3300678	3118596	Lin1	-30091.242	3245059.43							0.9990		0.9900
Toxaphene Peak 3	2313740 2801389	2484460	2762846	2702296	Lin1	-25857.820	2787055.59							1.0000		0.9900

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

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1 Analy Batch No.: 172072

SDG No.:

Instrument ID: HP6890-5 GC Column: RTX-CLPII ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/27/2014 14:46 Calibration End Date: 03/27/2014 15:57 Calibration ID: 17853

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 480-172072/19	5__7086.D
Level 2	STD 480-172072/18	5__7085.D
Level 3	STD 480-172072/17	5__7084.D
Level 4	STD 480-172072/16	5__7083.D
Level 5	STD 480-172072/15	5__7082.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
		LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
Toxaphene Peak 1	Lin1	257003	544578	2976739	5764979	9007467	0.0500	0.100	0.500	1.00	1.50
Toxaphene Peak 2	Lin1	134605	284524	1650339	3118596	4883417	0.0500	0.100	0.500	1.00	1.50
Toxaphene Peak 3	Lin1	115687	248446	1381423	2702296	4202084	0.0500	0.100	0.500	1.00	1.50

Curve Type Legend:
Lin1 = Linear 1/conc

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-05\20140326-30487.b\5__7082.D
Lims ID: std
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 27-Mar-2014 14:46:52 ALS Bottle#: 0 Worklist Smp#: 15
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, None
Operator ID: buftchrom Instrument ID: HP6890-5
Sublist: chrom-8081-5*sub7

Method: \\Bufchrom\ChromData\HP6890-05\20140326-30487.b\8081-5.m
Limit Group: GC - 8081B ICAL
Last Update: 28-Mar-2014 10:55:43 Calib Date: 27-Mar-2014 19:29:41
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP6890-05\20140326-30487.b\5__7098.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK034

First Level Reviewer: WolfL Date: 27-Mar-2014 15:52:23

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	On-Col Amt ng/ul	Flags
24 Toxaphene						
1	4.847	4.850	-0.003	6210204	1.51	
1	5.203	5.207	-0.004	6088895	1.51	
1	5.623	5.623	0.0	6239130	1.51	
		Average of Peak Amounts =			1.51	
2	5.750	5.757	-0.007	9007467	1.52	
2	6.100	6.103	-0.003	4883417	1.51	
2	6.523	6.527	-0.004	4202084	1.52	
		Average of Peak Amounts =			1.52	
				RPD =	0.47	

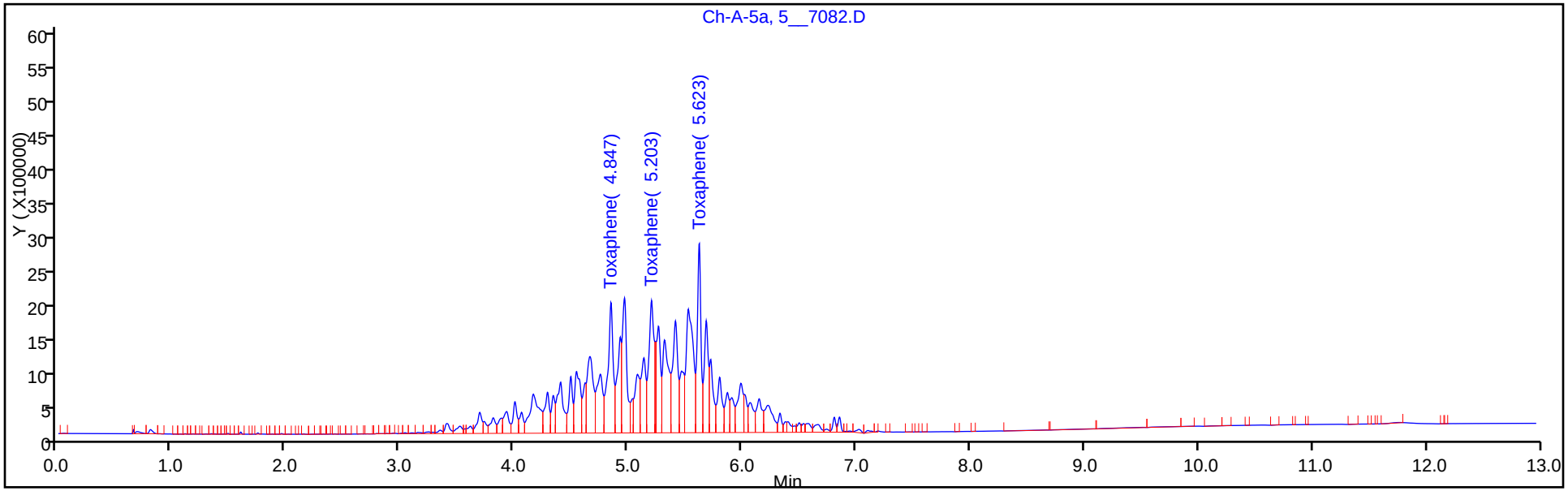
Report Date: 28-Mar-2014 10:55:44 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Buffalo

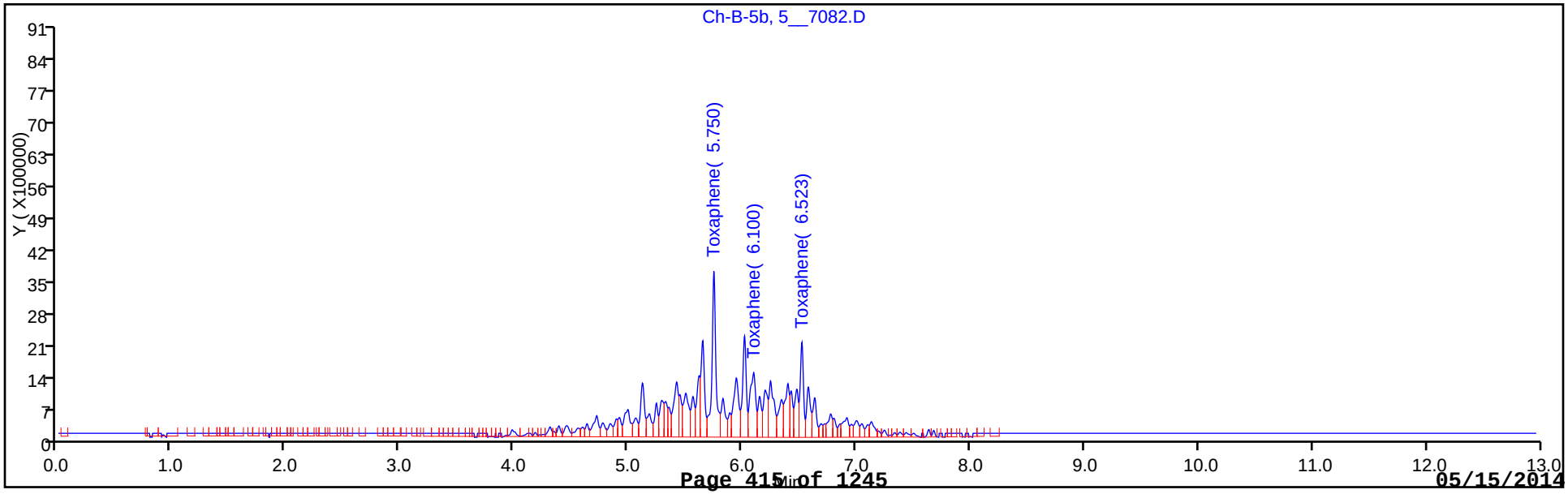
Data File: \\Bufchrom\ChromData\HP6890-05\20140326-30487.b\5__7082.D

Injection Date:	27-Mar-2014 14:46:52	Instrument ID:	HP6890-5	Operator ID:	buftchrom
Lims ID:	std			Worklist Smp#:	15
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8081-5	Limit Group:	GC - 8081B ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-05\20140326-30487.b\5__7083.D
Lims ID: std
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 27-Mar-2014 15:04:31 ALS Bottle#: 0 Worklist Smp#: 16
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, None
Operator ID: buftchrom Instrument ID: HP6890-5
Sublist: chrom-8081-5*sub7

Method: \\Bufchrom\ChromData\HP6890-05\20140326-30487.b\8081-5.m
Limit Group: GC - 8081B ICAL
Last Update: 28-Mar-2014 10:55:46 Calib Date: 27-Mar-2014 19:29:41
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP6890-05\20140326-30487.b\5__7098.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK034

First Level Reviewer: WolfL Date: 27-Mar-2014 15:55:07

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	On-Col Amt ng/ul	Flags
24 Toxaphene						
1	4.847	4.850	-0.003	4049375	0.9884	
1	5.203	5.207	-0.004	4013142	0.99	
1	5.623	5.623	0.0	4086903	0.9871	
		Average of Peak Amounts =			0.9900	
2	5.750	5.757	-0.007	5764979	0.9748	
2	6.100	6.103	-0.003	3118596	0.9703	
2	6.523	6.527	-0.004	2702296	0.9789	
		Average of Peak Amounts =			0.9747	
				RPD =	1.56	

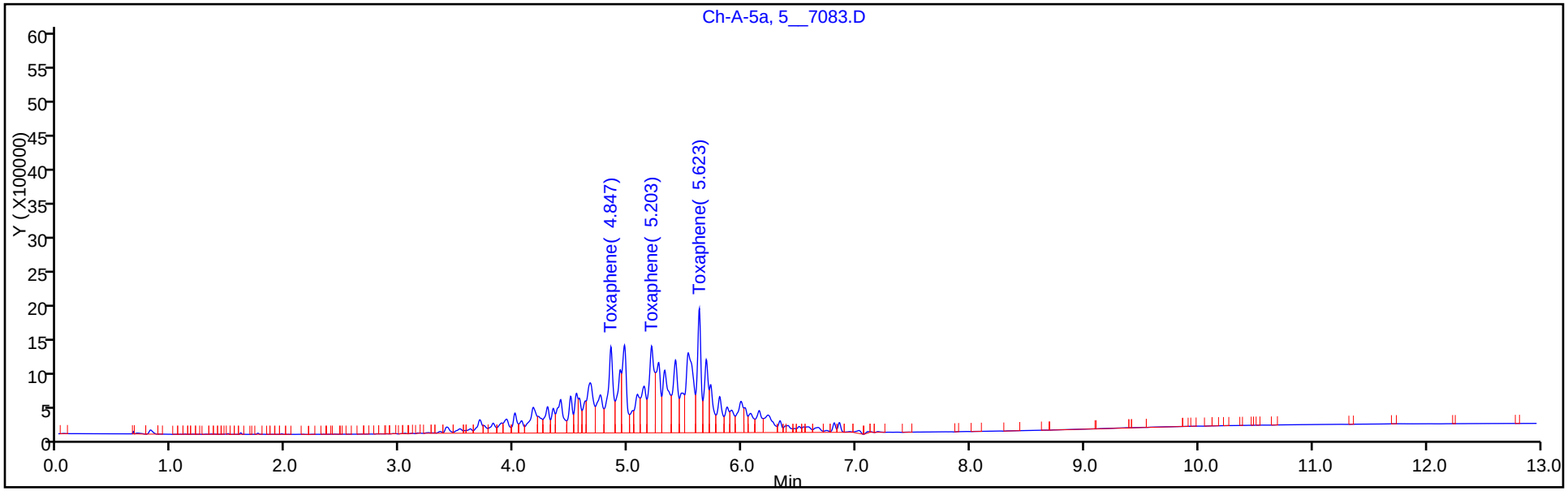
Report Date: 28-Mar-2014 10:55:46 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Buffalo

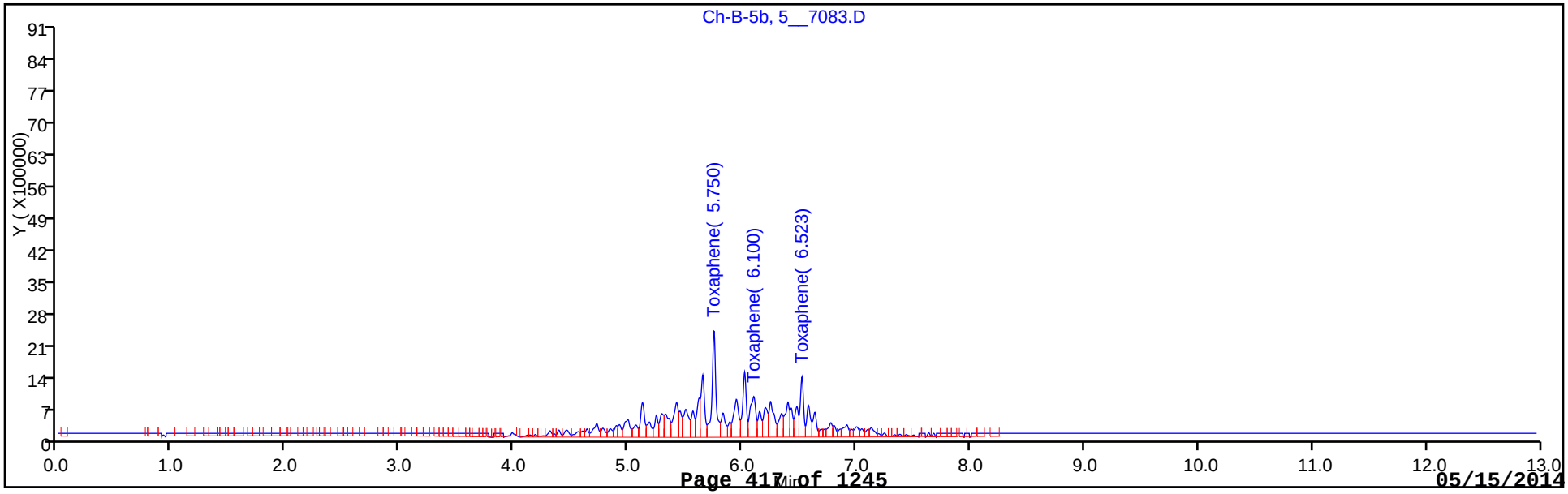
Data File: \\Bufchrom\ChromData\HP6890-05\20140326-30487.b\5__7083.D

Injection Date:	27-Mar-2014 15:04:31	Instrument ID:	HP6890-5	Operator ID:	buftchrom
Lims ID:	std			Worklist Smp#:	16
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8081-5	Limit Group:	GC - 8081B ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-05\20140326-30487.b\5__7084.D
Lims ID: std
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 27-Mar-2014 15:22:15 ALS Bottle#: 0 Worklist Smp#: 17
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, None
Operator ID: buftchrom Instrument ID: HP6890-5
Sublist: chrom-8081-5*sub7

Method: \\Bufchrom\ChromData\HP6890-05\20140326-30487.b\8081-5.m
Limit Group: GC - 8081B ICAL
Last Update: 28-Mar-2014 10:55:49 Calib Date: 27-Mar-2014 19:29:41
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP6890-05\20140326-30487.b\5__7098.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK034

First Level Reviewer: WolfL Date: 27-Mar-2014 15:55:26

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	On-Col Amt ng/ul	Flags
24 Toxaphene						M
1	4.850	4.850	0.0	2039382	0.5008	M
1	5.207	5.207	0.0	2024016	0.5014	M
1	5.623	5.623	0.0	2108871	0.5089	M
		Average of Peak Amounts =			0.5037	
2	5.757	5.757	0.0	2976739	0.5069	M
2	6.103	6.103	0.0	1650339	0.5178	M
2	6.527	6.527	0.0	1381423	0.5049	M
		Average of Peak Amounts =			0.5099	
					RPD = 1.23	

QC Flag Legend

Review Flags
M - Manually Integrated

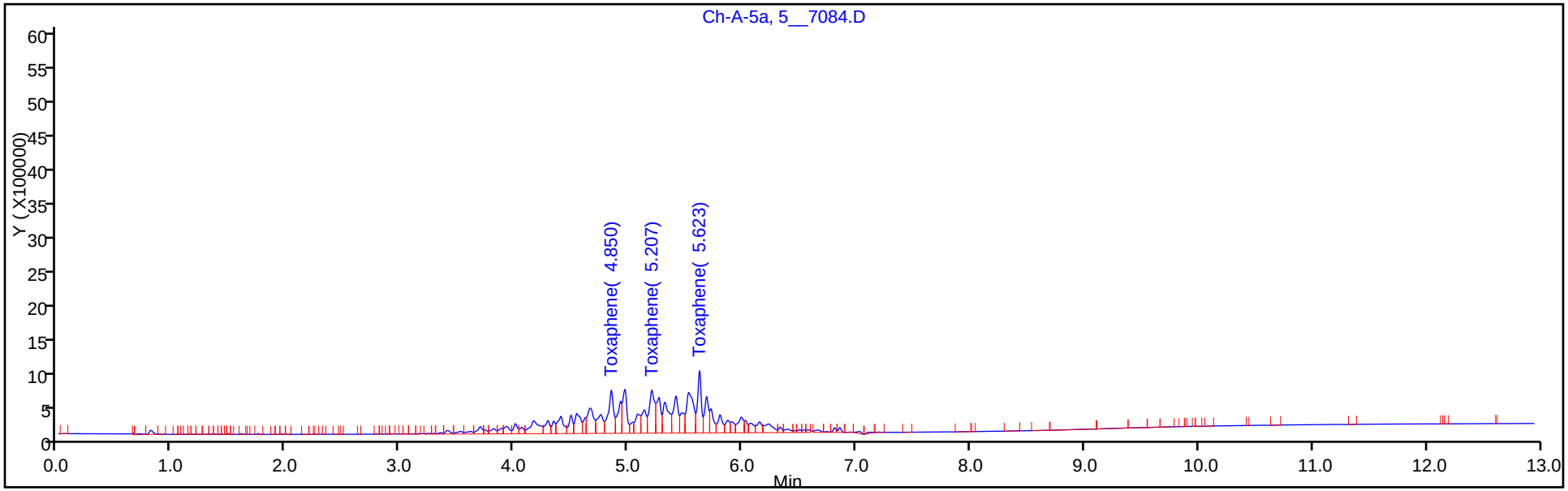
Report Date: 28-Mar-2014 10:55:50 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Buffalo

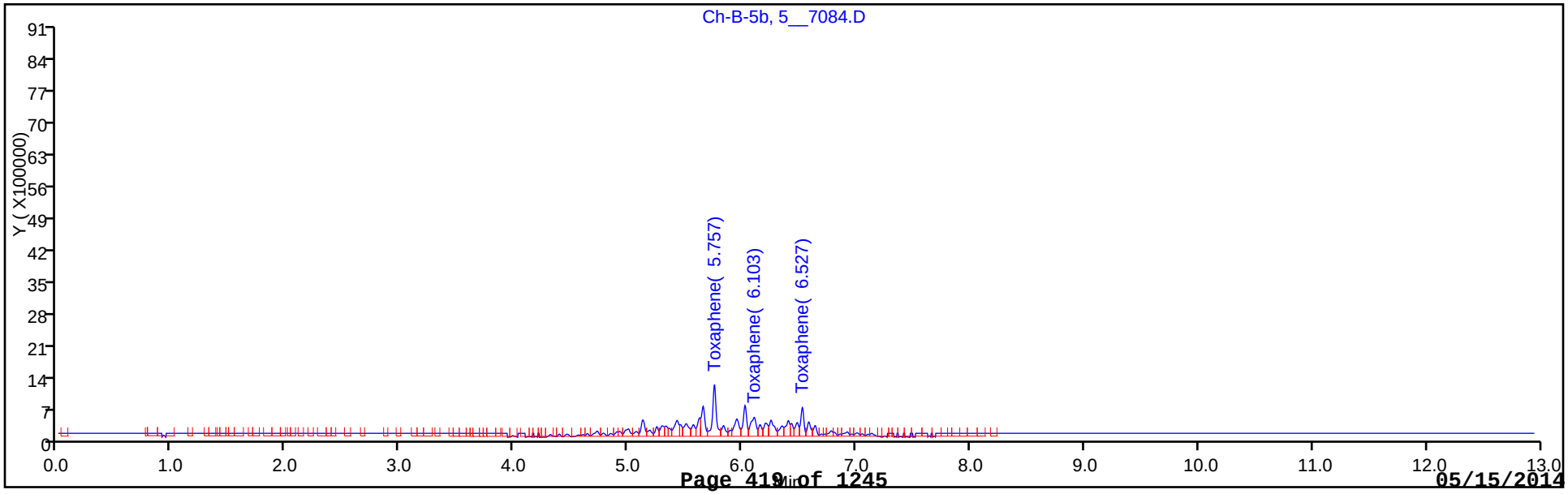
Data File: \\Bufchrom\ChromData\HP6890-05\20140326-30487.b\5__7084.D

Injection Date:	27-Mar-2014 15:22:15	Instrument ID:	HP6890-5	Operator ID:	buftchrom
Lims ID:	std			Worklist Smp#:	17
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8081-5	Limit Group:	GC - 8081B ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value

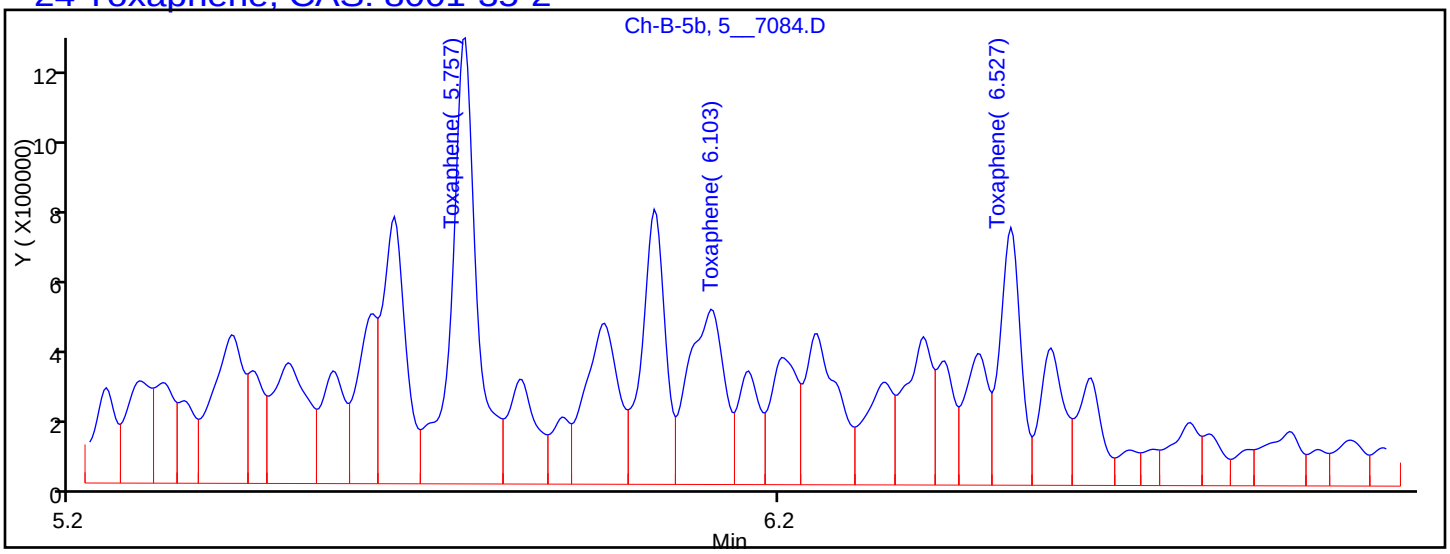


Report Date: 28-Mar-2014 10:55:50 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Buffalo

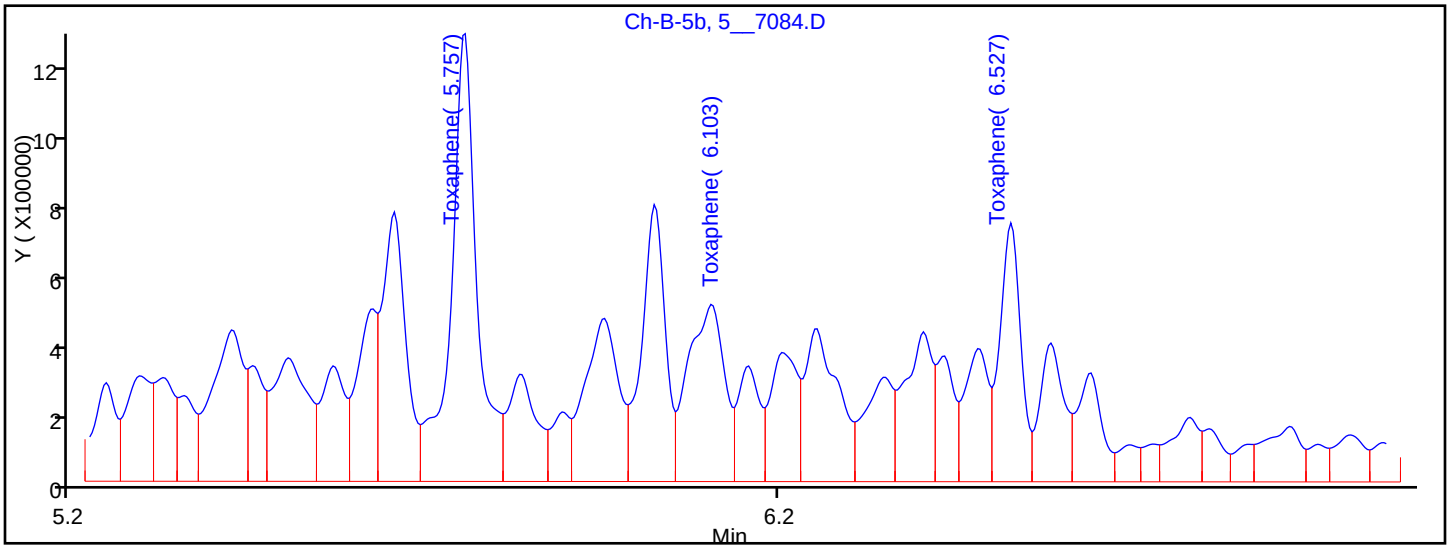
Data File: \\Bufchrom\ChromData\HP6890-05\20140326-30487.b\5__7084.D
Injection Date: 27-Mar-2014 15:22:15 Instrument ID: HP6890-5
Lims ID: std
Client ID:
Operator ID: buftchrom ALS Bottle#: 0 Worklist Smp#: 17
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8081-5 Limit Group: GC - 8081B ICAL
Column: Detector Ch-B-6b58132

24 Toxaphene, CAS: 8001-35-2



Processing Integration Results

RT = 5.757	Response = 2925674	M
RT = 6.103	Response = 1619584	M
RT = 6.527	Response = 1365418	M



Manual Integration Results

RT = 5.757	Response = 2976739	M
RT = 6.103	Response = 1650339	M
RT = 6.527	Response = 1381423	M

Reviewer: WolfL, 27-Mar-2014 15:56:34
Audit Action: Assigned New Baseline
Audit Reason: Incomplete Integration

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-05\20140326-30487.b\5__7085.D
Lims ID: std
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 27-Mar-2014 15:39:59 ALS Bottle#: 0 Worklist Smp#: 18
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, None
Operator ID: buftchrom Instrument ID: HP6890-5
Sublist: chrom-8081-5*sub7

Method: \\Bufchrom\ChromData\HP6890-05\20140326-30487.b\8081-5.m
Limit Group: GC - 8081B ICAL
Last Update: 28-Mar-2014 10:55:51 Calib Date: 27-Mar-2014 19:29:41
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP6890-05\20140326-30487.b\5__7098.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK034

First Level Reviewer: WolfL Date: 27-Mar-2014 15:56:13

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	On-Col Amt ng/ul	Flags
24 Toxaphene						M
1	4.847	4.850	-0.003	371503	0.0961	M
1	5.207	5.207	0.0	368476	0.0911	M
1	5.623	5.623	0.0	394518	0.0944	M
		Average of Peak Amounts =			0.0939	
2	5.753	5.757	-0.004	544578	0.0988	M
2	6.103	6.103	0.0	284524	0.0970	M
2	6.523	6.527	-0.004	248446	0.0984	M
		Average of Peak Amounts =			0.0981	
					RPD = 4.35	

QC Flag Legend

Review Flags
M - Manually Integrated

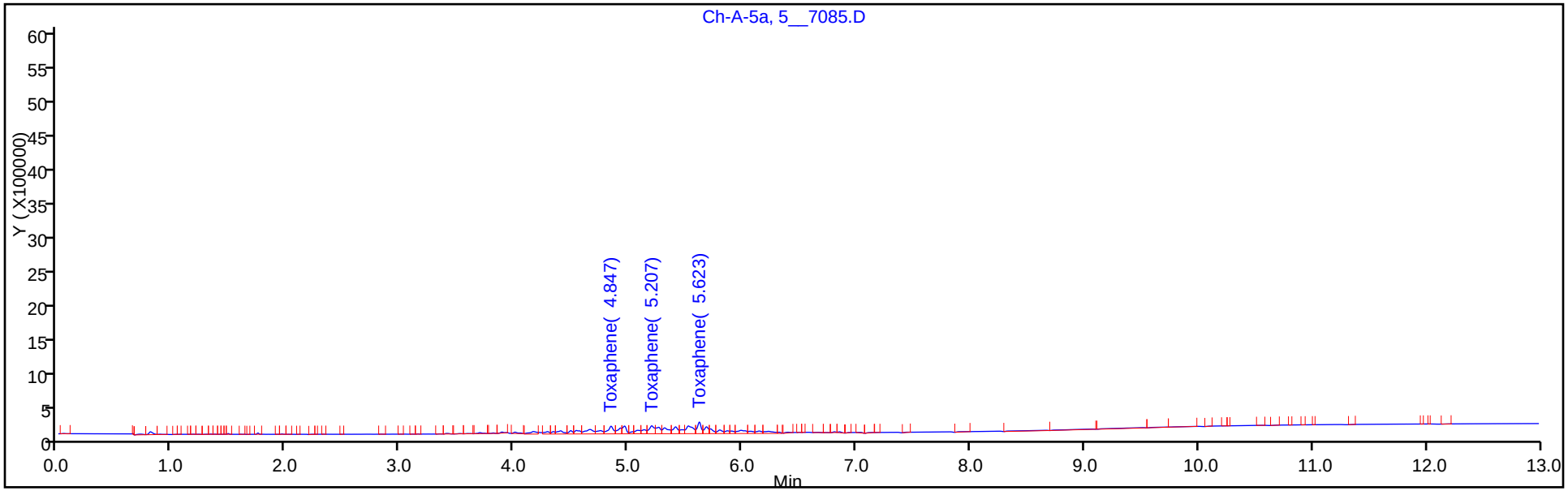
Report Date: 28-Mar-2014 10:55:52 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Buffalo

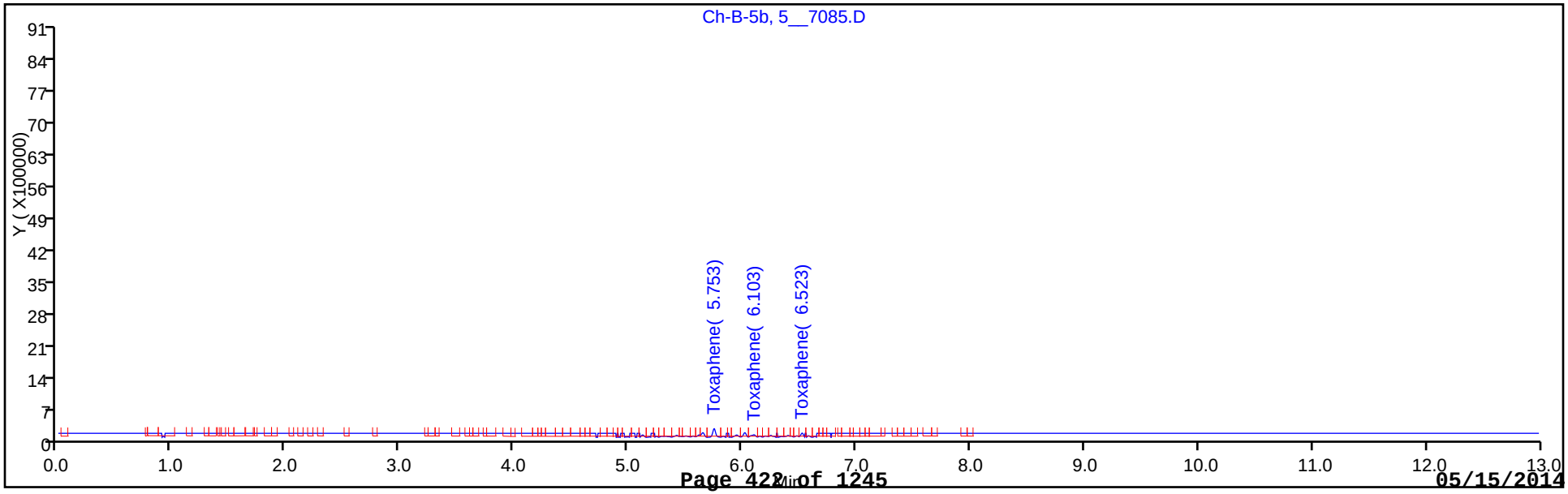
Data File: \\Bufchrom\ChromData\HP6890-05\20140326-30487.b\5__7085.D

Injection Date:	27-Mar-2014 15:39:59	Instrument ID:	HP6890-5	Operator ID:	buftchrom
Lims ID:	std			Worklist Smp#:	18
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8081-5	Limit Group:	GC - 8081B ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value

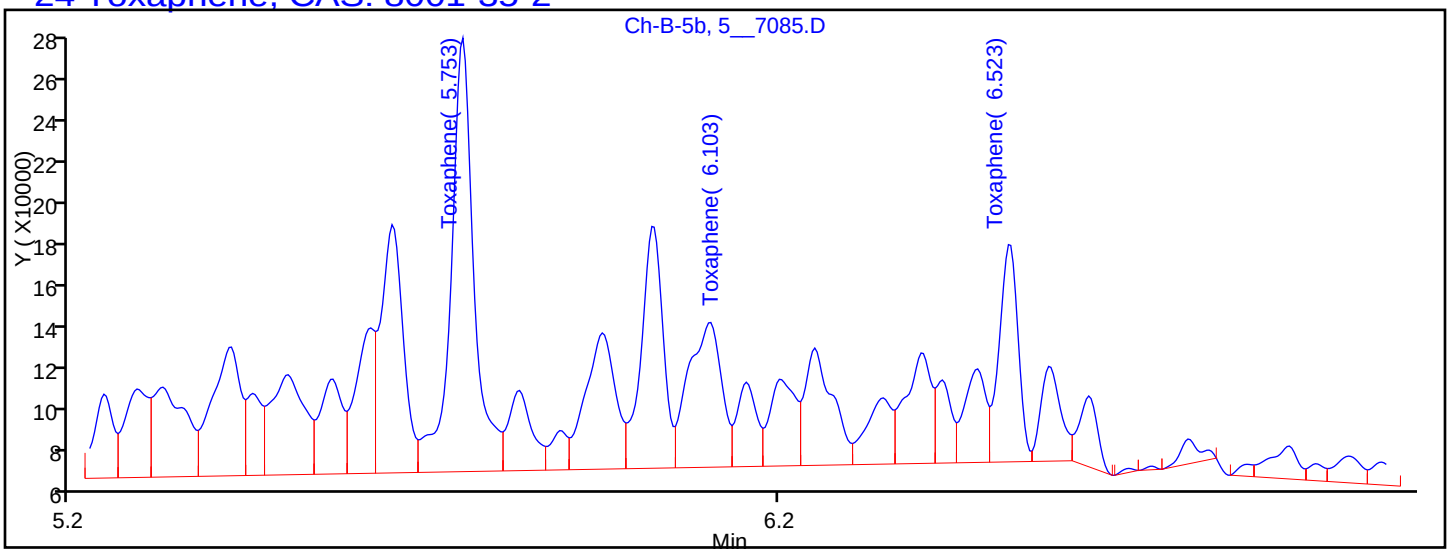


Report Date: 28-Mar-2014 10:55:52 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Buffalo

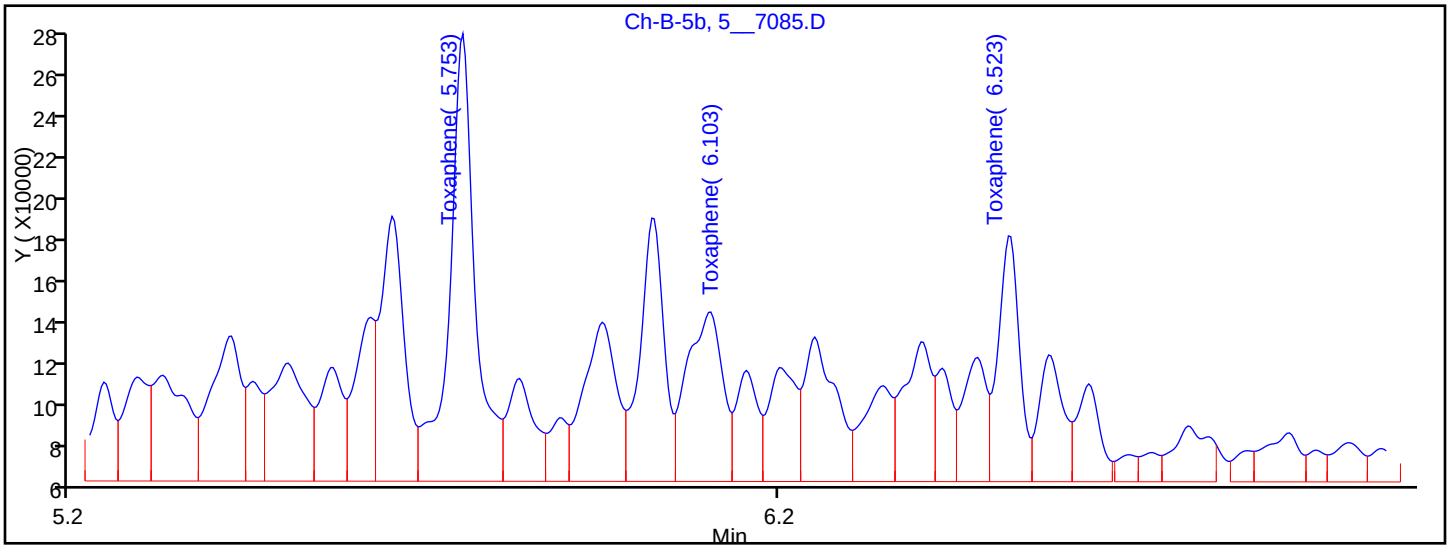
Data File: \\Bufchrom\ChromData\HP6890-05\20140326-30487.b\5__7085.D
Injection Date: 27-Mar-2014 15:39:59 Instrument ID: HP6890-5
Lims ID: std
Client ID:
Operator ID: buftchrom ALS Bottle#: 0 Worklist Smp#: 18
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8081-5 Limit Group: GC - 8081B ICAL
Column: Detector Ch-B-6b58132

24 Toxaphene, CAS: 8001-35-2



Processing Integration Results

RT = 5.753	Response = 464115	M
RT = 6.103	Response = 220656	M
RT = 6.523	Response = 190868	M



Manual Integration Results

RT = 5.753	Response = 544578	M
RT = 6.103	Response = 284524	M
RT = 6.523	Response = 248446	M

Reviewer: WolfL, 27-Mar-2014 15:56:13
Audit Action: Assigned New Baseline
Audit Reason: Incomplete Integration

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-05\20140326-30487.b\5__7086.D
Lims ID: std
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 27-Mar-2014 15:57:34 ALS Bottle#: 0 Worklist Smp#: 19
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, None
Operator ID: buftchrom Instrument ID: HP6890-5
Sublist: chrom-8081-5*sub7

Method: \\Bufchrom\ChromData\HP6890-05\20140326-30487.b\8081-5.m
Limit Group: GC - 8081B ICAL
Last Update: 28-Mar-2014 10:55:53 Calib Date: 27-Mar-2014 19:29:41
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP6890-05\20140326-30487.b\5__7098.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK034

First Level Reviewer: WolfL Date: 28-Mar-2014 10:21:32

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	On-Col Amt ng/ul	Flags
24 Toxaphene						M
1	4.850	4.850	0.0	189704	0.0520	M
1	5.207	5.207	0.0	219770	0.0543	M
1	5.623	5.623	0.0	220496	0.0523	M
		Average of Peak Amounts =			0.0529	
2	5.753	5.757	-0.004	257003	0.0505	M
2	6.103	6.103	0.0	134605	0.0508	M
2	6.527	6.527	0.0	115687	0.0508	M
		Average of Peak Amounts =			0.0507	
					RPD = 4.21	

QC Flag Legend

Review Flags
M - Manually Integrated

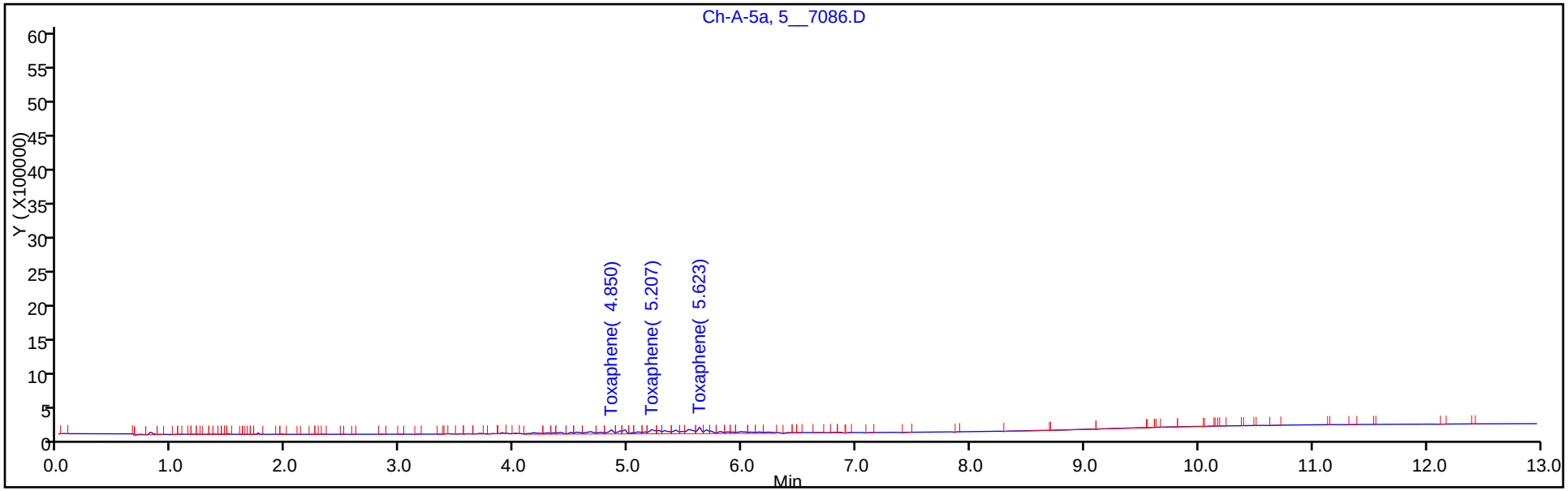
Report Date: 28-Mar-2014 10:55:54 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Buffalo

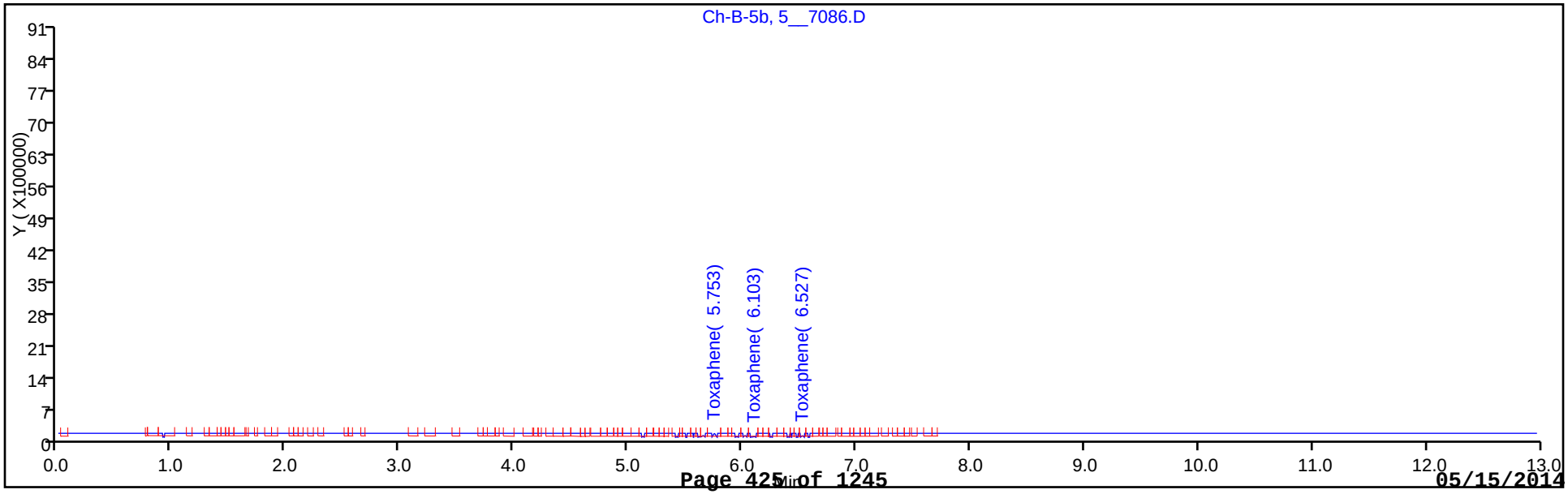
Data File: \\Bufchrom\ChromData\HP6890-05\20140326-30487.b\5__7086.D

Injection Date:	27-Mar-2014 15:57:34	Instrument ID:	HP6890-5	Operator ID:	buftchrom
Lims ID:	std			Worklist Smp#:	19
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8081-5	Limit Group:	GC - 8081B ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



Report Date: 28-Mar-2014 10:55:54 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-05\20140326-30487.b\5__7086.D

Injection Date: 27-Mar-2014 15:57:34 Instrument ID: HP6890-5

Lims ID: std

Client ID:

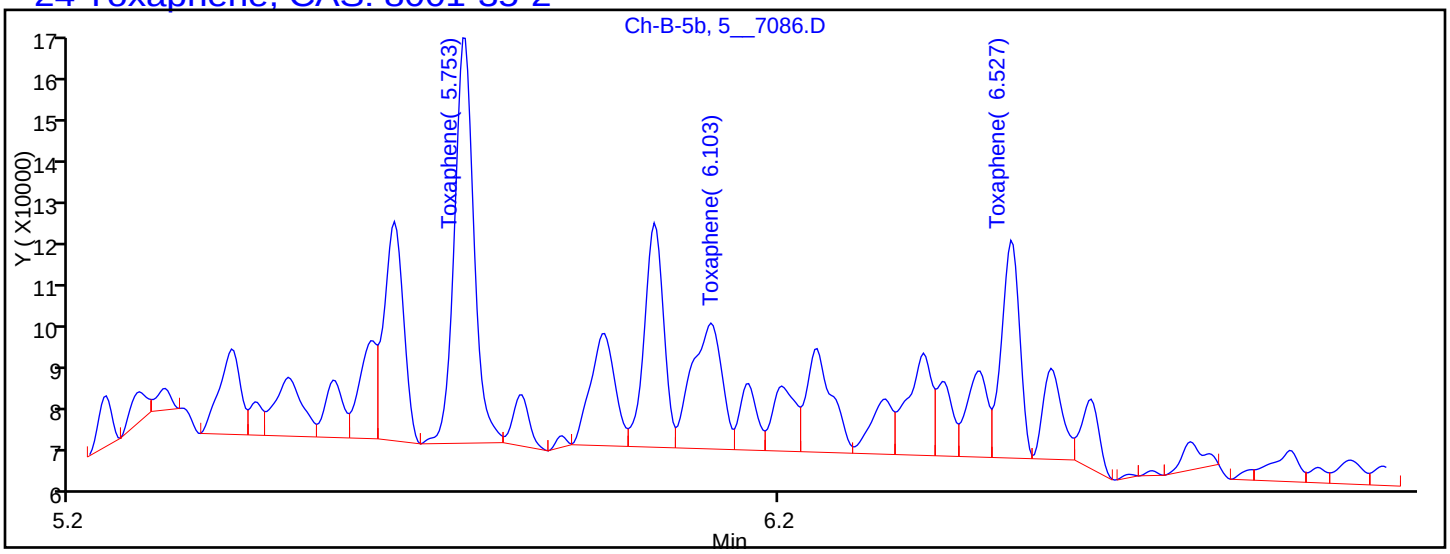
Operator ID: buftchrom ALS Bottle#: 0 Worklist Smp#: 19

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 8081-5 Limit Group: GC - 8081B ICAL

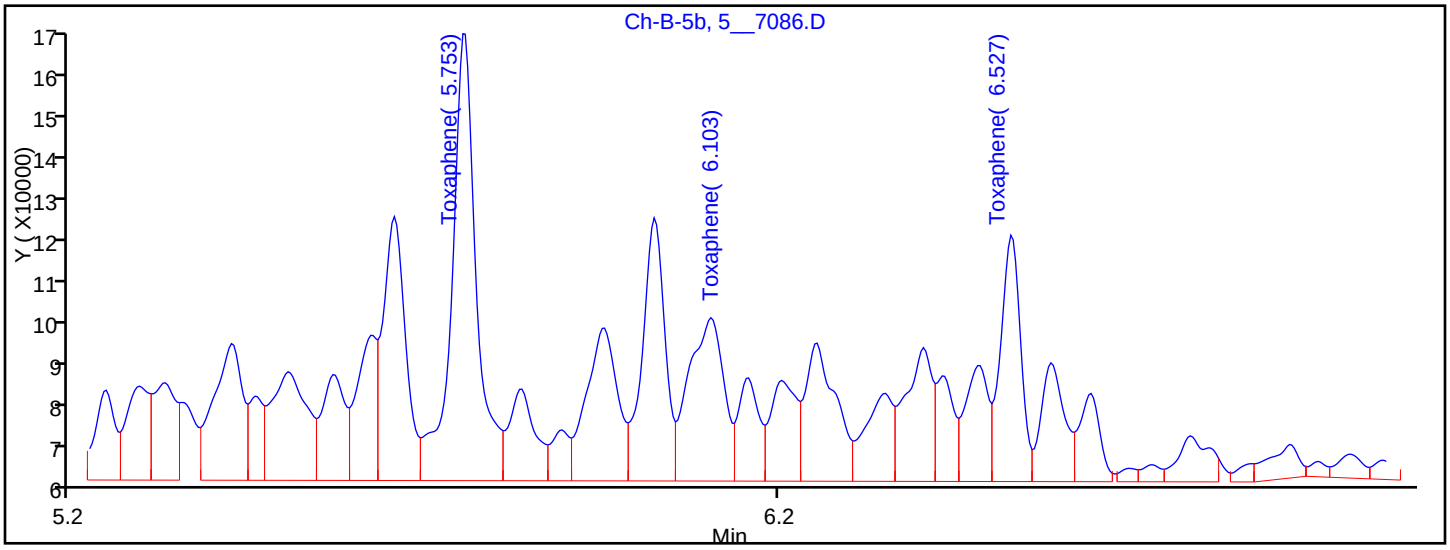
Column: Detector Ch-B-6b58132

24 Toxaphene, CAS: 8001-35-2



Processing Integration Results

RT = 5.753	Response = 185029	M
RT = 6.103	Response = 89237	M
RT = 6.527	Response = 91921	M



Manual Integration Results

RT = 5.753	Response = 257003	M
RT = 6.103	Response = 134605	M
RT = 6.527	Response = 115687	M

Reviewer: WolfL, 28-Mar-2014 10:21:32

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1 Analy Batch No.: 172072

SDG No.:

Instrument ID: HP6890-5 GC Column: RTX-CLPI ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/27/2014 18:19 Calibration End Date: 03/27/2014 19:29 Calibration ID: 17868

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 480-172072/31	5__7098.D
Level 2	STD 480-172072/30	5__7097.D
Level 3	STD 480-172072/29	5__7096.D
Level 4	STD 480-172072/28	5__7095.D
Level 5	STD 480-172072/27	5__7094.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5						RT WINDOW	AVG RT
Chlordane (technical) Peak 1	3.370	3.370	3.370	3.370	3.370						3.340 - 3.400	3.370
Chlordane (technical) Peak 2	3.727	3.727	3.727	3.727	3.727						3.697 - 3.757	3.727
Chlordane (technical) Peak 3	3.903	3.903	3.903	3.903	3.907						3.873 - 3.933	3.904
Chlordane (technical) Peak 4	4.023	4.023	4.023	4.023	4.027						3.993 - 4.053	4.024
Chlordane (technical) Peak 5	4.790	4.790	4.793	4.790	4.790						4.763 - 4.823	4.791

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1 Analy Batch No.: 172072

SDG No.:

Instrument ID: HP6890-5 GC Column: RTX-CLPI ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/27/2014 18:19 Calibration End Date: 03/27/2014 19:29 Calibration ID: 17868

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 480-172072/31	5__7098.D
Level 2	STD 480-172072/30	5__7097.D
Level 3	STD 480-172072/29	5__7096.D
Level 4	STD 480-172072/28	5__7095.D
Level 5	STD 480-172072/27	5__7094.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 3	LVL 4		B	M1	M2								
Chlordane (technical) Peak 1	2964220 2864201	2579820	2770994	2928799	Lin1	-7941.3553	2875078.66							0.9990		0.9900
Chlordane (technical) Peak 2	1725360 2113433	1658260	1866910	2096739	Lin1	-30363.697	2096589.36							0.9980		0.9900
Chlordane (technical) Peak 3	11526620 13931978	11791880	13236362	13661781	Lin1	-155448.29	13876409.3							1.0000		0.9900
Chlordane (technical) Peak 4	19762820 23409418	20158320	22642452	22859749	Lin1	-230378.58	23317767.6							1.0000		0.9900
Chlordane (technical) Peak 5	2513280 3458308	2653350	3078160	3368012	Lin1	-61119.907	3425762.71							0.9990		0.9900

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

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1 Analy Batch No.: 172072

SDG No.:

Instrument ID: HP6890-5 GC Column: RTX-CLPI ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/27/2014 18:19 Calibration End Date: 03/27/2014 19:29 Calibration ID: 17868

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 480-172072/31	5__7098.D
Level 2	STD 480-172072/30	5__7097.D
Level 3	STD 480-172072/29	5__7096.D
Level 4	STD 480-172072/28	5__7095.D
Level 5	STD 480-172072/27	5__7094.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
		LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
Chlordane (technical) Peak 1	Lin1	148211	257982	1385497	2928799	4296302	0.0500	0.100	0.500	1.00	1.50
Chlordane (technical) Peak 2	Lin1	86268	165826	933455	2096739	3170150	0.0500	0.100	0.500	1.00	1.50
Chlordane (technical) Peak 3	Lin1	576331	1179188	6618181	13661781	20897967	0.0500	0.100	0.500	1.00	1.50
Chlordane (technical) Peak 4	Lin1	988141	2015832	11321226	22859749	35114127	0.0500	0.100	0.500	1.00	1.50
Chlordane (technical) Peak 5	Lin1	125664	265335	1539080	3368012	5187462	0.0500	0.100	0.500	1.00	1.50

Curve Type Legend:
Lin1 = Linear 1/conc

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-05\20140326-30487.b\5__7094.D
Lims ID: std
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 27-Mar-2014 18:19:00 ALS Bottle#: 0 Worklist Smp#: 27
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, None
Operator ID: buftchrom Instrument ID: HP6890-5
Sublist: chrom-8081-5*sub6

Method: \\Bufchrom\ChromData\HP6890-05\20140326-30487.b\8081-5.m
Limit Group: GC - 8081B ICAL
Last Update: 28-Mar-2014 10:55:27 Calib Date: 27-Mar-2014 19:29:41
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP6890-05\20140326-30487.b\5__7098.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK034

First Level Reviewer: WolfL Date: 28-Mar-2014 10:31:32

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	On-Col Amt ng/ul	Flags
11 Chlordane (technical)						
1	3.370	3.370	0.0	4296302	1.50	
1	3.727	3.727	0.0	3170150	1.53	
1	3.907	3.903	0.004	20897967	1.52	
1	4.027	4.023	0.004	35114127	1.52	
1	4.790	4.793	-0.003	5187462	1.53	
		Average of Peak Amounts =			1.52	
2	4.037	4.033	0.004	5440951	1.49	
2	4.430	4.427	0.003	5039362	1.50	
2	4.663	4.663	0.0	22517630	1.50	
2	4.813	4.813	0.0	16464092	1.51	
2	5.717	5.717	0.0	5622039	1.51	
		Average of Peak Amounts =			1.50	
				RPD =	1.07	

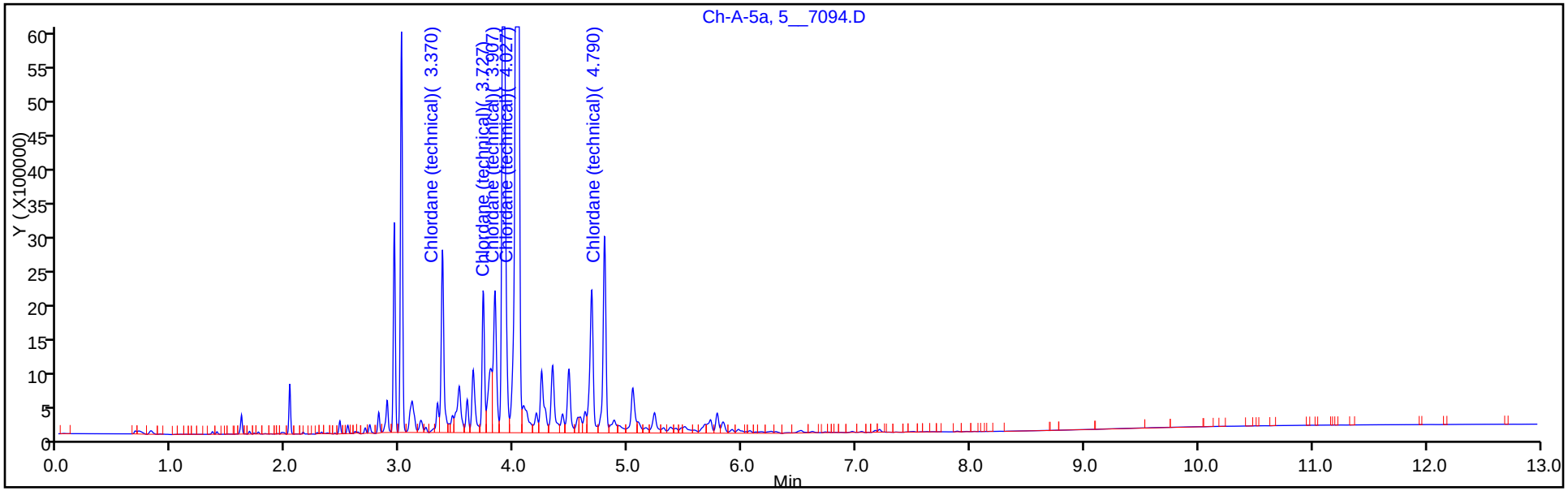
Report Date: 28-Mar-2014 10:55:28 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Buffalo

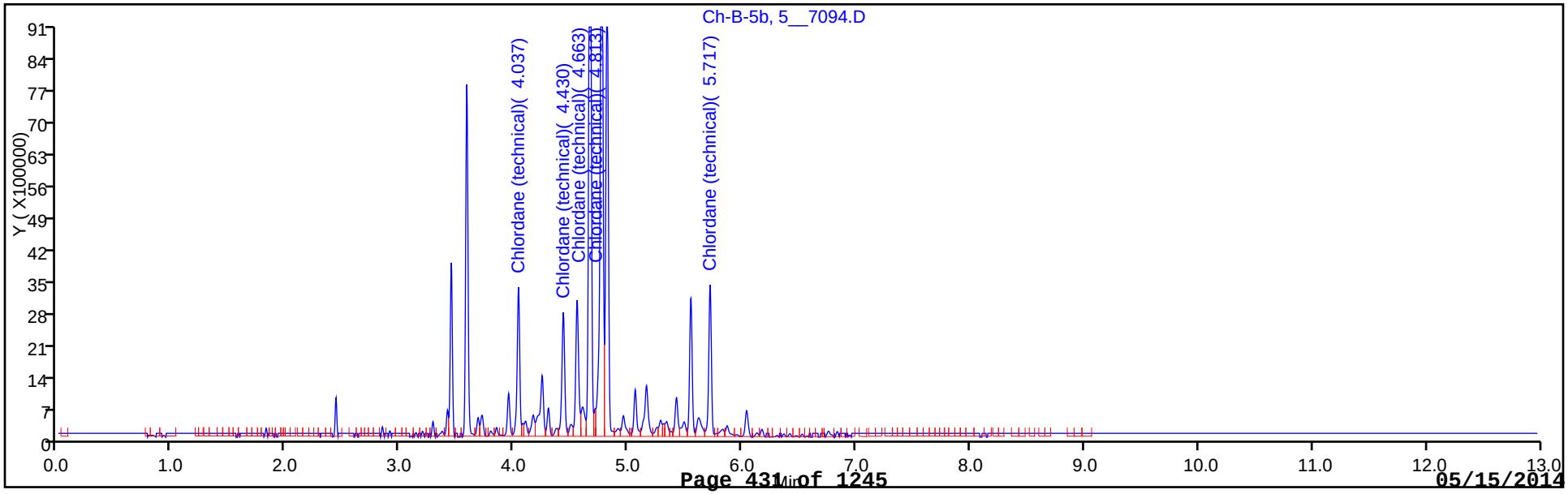
Data File: \\Bufchrom\ChromData\HP6890-05\20140326-30487.b\5__7094.D

Injection Date:	27-Mar-2014 18:19:00	Instrument ID:	HP6890-5	Operator ID:	buftchrom
Lims ID:	std			Worklist Smp#:	27
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8081-5	Limit Group:	GC - 8081B ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-05\20140326-30487.b\5__7095.D
Lims ID: std
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 27-Mar-2014 18:36:43 ALS Bottle#: 0 Worklist Smp#: 28
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, None
Operator ID: buftchrom Instrument ID: HP6890-5
Sublist: chrom-8081-5*sub6

Method: \\Bufchrom\ChromData\HP6890-05\20140326-30487.b\8081-5.m
Limit Group: GC - 8081B ICAL
Last Update: 28-Mar-2014 10:55:30 Calib Date: 27-Mar-2014 19:29:41
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP6890-05\20140326-30487.b\5__7098.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK034

First Level Reviewer: WolfL Date: 28-Mar-2014 10:33:38

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	On-Col Amt ng/ul	Flags
11 Chlordane (technical)						
1	3.370	3.370	0.0	2928799	1.02	
1	3.727	3.727	0.0	2096739	1.01	
1	3.903	3.903	0.0	13661781	1.00	
1	4.023	4.023	0.0	22859749	0.99	
1	4.790	4.793	-0.003	3368012	1.00	
		Average of Peak Amounts =			1.00	
2	4.037	4.033	0.004	3617737	0.9872	
2	4.430	4.427	0.003	3295454	0.9847	
2	4.663	4.663	0.0	14902022	0.99	
2	4.813	4.813	0.0	10740245	0.9856	
2	5.717	5.717	0.0	3635422	0.9815	
		Average of Peak Amounts =			0.9866	
				RPD =	1.81	

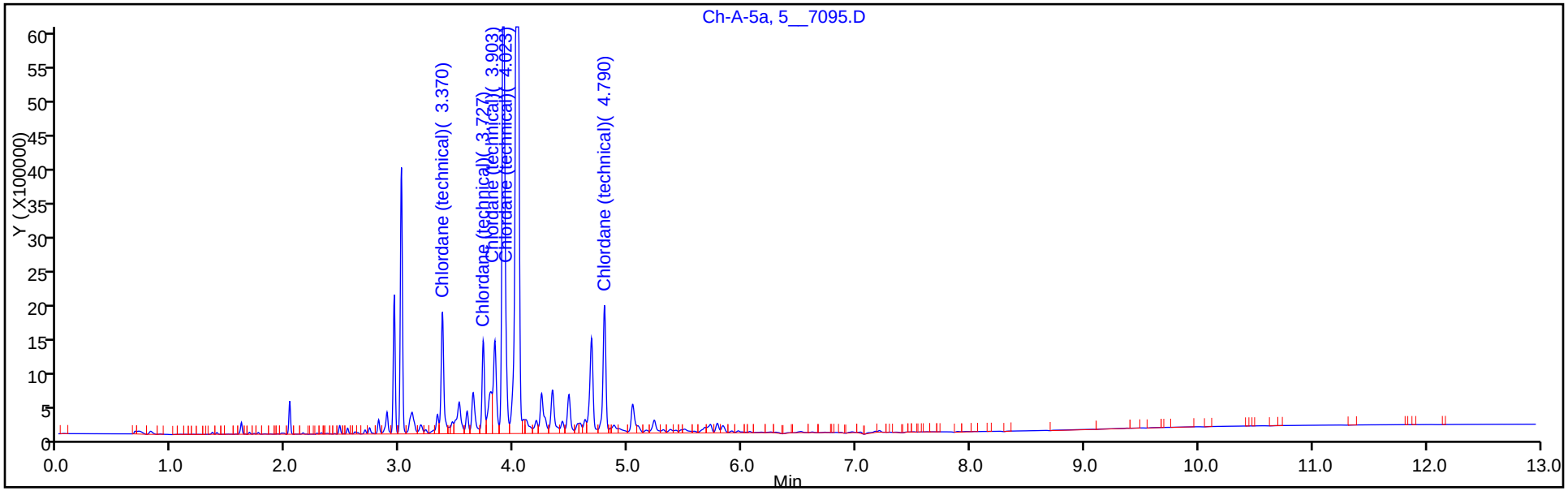
Report Date: 28-Mar-2014 10:55:30 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Buffalo

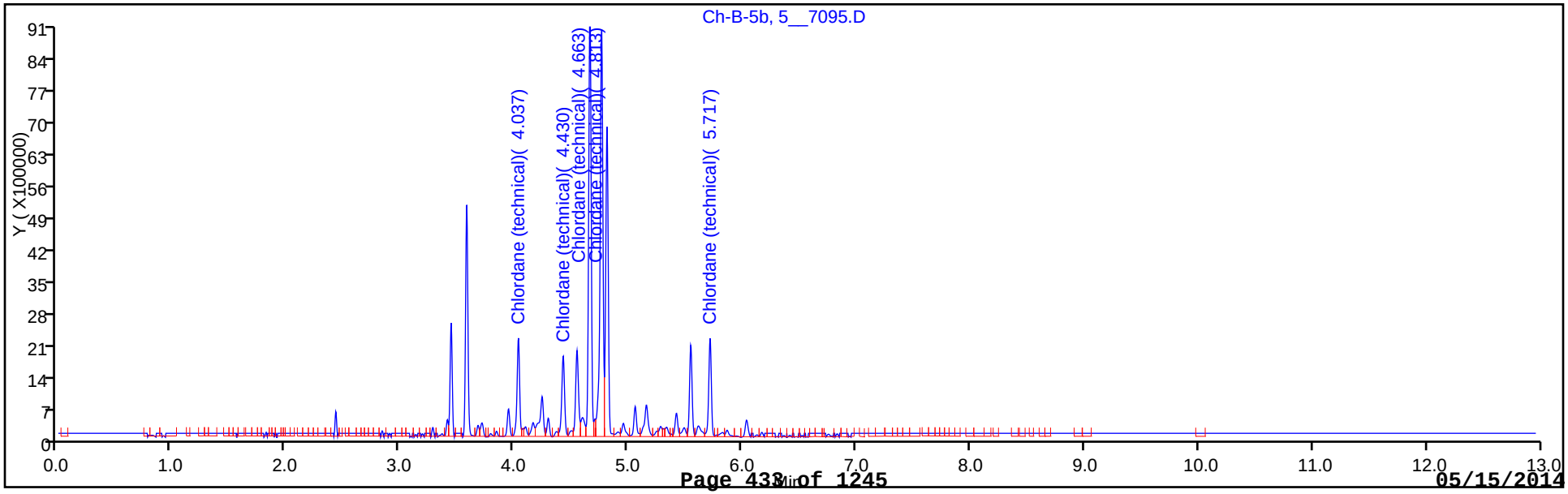
Data File: \\Bufchrom\ChromData\HP6890-05\20140326-30487.b\5__7095.D

Injection Date:	27-Mar-2014 18:36:43	Instrument ID:	HP6890-5	Operator ID:	buftchrom
Lims ID:	std			Worklist Smp#:	28
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8081-5	Limit Group:	GC - 8081B ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-05\20140326-30487.b\5__7096.D
Lims ID: std
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 27-Mar-2014 18:54:20 ALS Bottle#: 0 Worklist Smp#: 29
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, None
Operator ID: buftchrom Instrument ID: HP6890-5
Sublist: chrom-8081-5*sub6

Method: \\Bufchrom\ChromData\HP6890-05\20140326-30487.b\8081-5.m
Limit Group: GC - 8081B ICAL
Last Update: 28-Mar-2014 10:55:32 Calib Date: 27-Mar-2014 19:29:41
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP6890-05\20140326-30487.b\5__7098.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK034

First Level Reviewer: WolfL Date: 28-Mar-2014 10:34:08

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	On-Col Amt ng/ul	Flags
11 Chlordane (technical)						
1	3.370	3.370	0.0	1385497	0.4847	
1	3.727	3.727	0.0	933455	0.4597	
1	3.903	3.903	0.0	6618181	0.4881	
1	4.023	4.023	0.0	11321226	0.4954	
1	4.793	4.793	0.0	1539080	0.4671	
		Average of Peak Amounts =			0.4790	
2	4.033	4.033	0.0	1942686	0.5287	
2	4.427	4.427	0.0	1718013	0.5147	
2	4.663	4.663	0.0	7595032	0.5095	
2	4.813	4.813	0.0	5506216	0.5084	
2	5.717	5.717	0.0	1866157	0.5099	
		Average of Peak Amounts =			0.5142	
				RPD =	7.09	

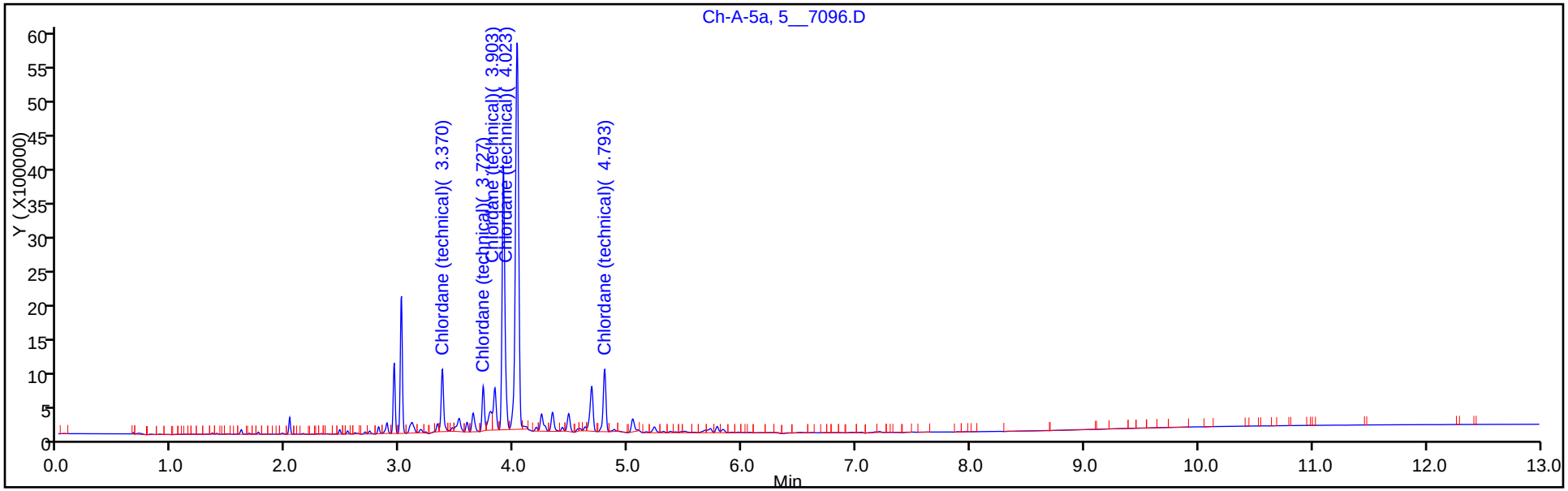
Report Date: 28-Mar-2014 10:55:33 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Buffalo

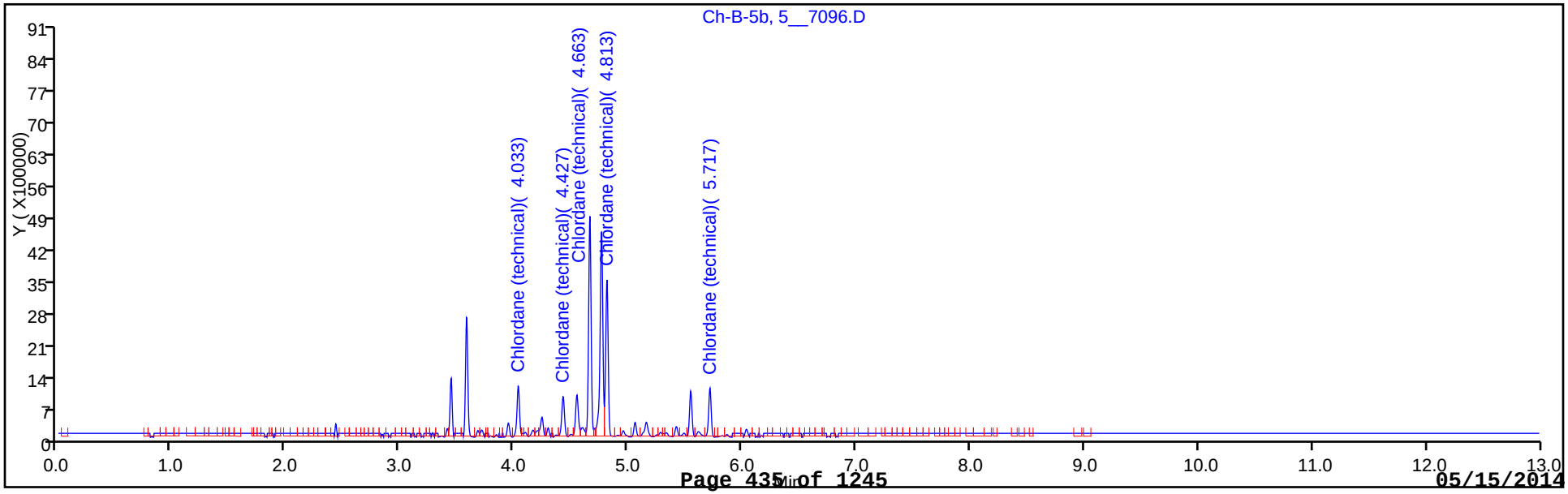
Data File: \\Bufchrom\ChromData\HP6890-05\20140326-30487.b\5__7096.D

Injection Date:	27-Mar-2014 18:54:20	Instrument ID:	HP6890-5	Operator ID:	buftchrom
Lims ID:	std			Worklist Smp#:	29
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8081-5	Limit Group:	GC - 8081B ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-05\20140326-30487.b\5__7097.D
Lims ID: std
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 27-Mar-2014 19:12:01 ALS Bottle#: 0 Worklist Smp#: 30
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, None
Operator ID: buftchrom Instrument ID: HP6890-5
Sublist: chrom-8081-5*sub6

Method: \\Bufchrom\ChromData\HP6890-05\20140326-30487.b\8081-5.m
Limit Group: GC - 8081B ICAL
Last Update: 28-Mar-2014 10:55:35 Calib Date: 27-Mar-2014 19:29:41
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP6890-05\20140326-30487.b\5__7098.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK034

First Level Reviewer: WolfL Date: 28-Mar-2014 10:34:19

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	On-Col Amt ng/ul	Flags
11 Chlordane (technical)						
1	3.370	3.370	0.0	257982	0.0925	
1	3.727	3.727	0.0	165826	0.0936	
1	3.903	3.903	0.0	1179188	0.0962	
1	4.023	4.023	0.0	2015832	0.0963	
1	4.790	4.793	-0.003	265335	0.0953	
		Average of Peak Amounts =			0.0948	
2	4.033	4.033	0.0	373409	0.0991	
2	4.427	4.427	0.0	307221	0.0944	
2	4.663	4.663	0.0	1382390	0.0977	
2	4.813	4.813	0.0	1001838	0.0977	
2	5.717	5.717	0.0	313361	0.0959	
		Average of Peak Amounts =			0.0970	
				RPD =	2.28	

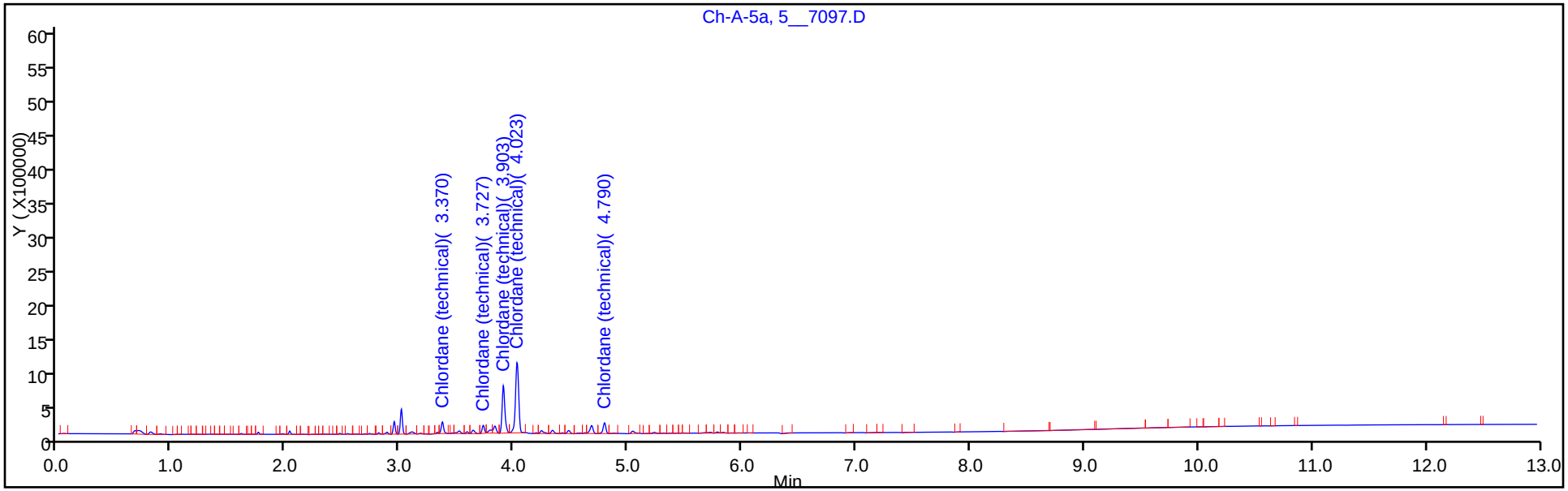
Report Date: 28-Mar-2014 10:55:35 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Buffalo

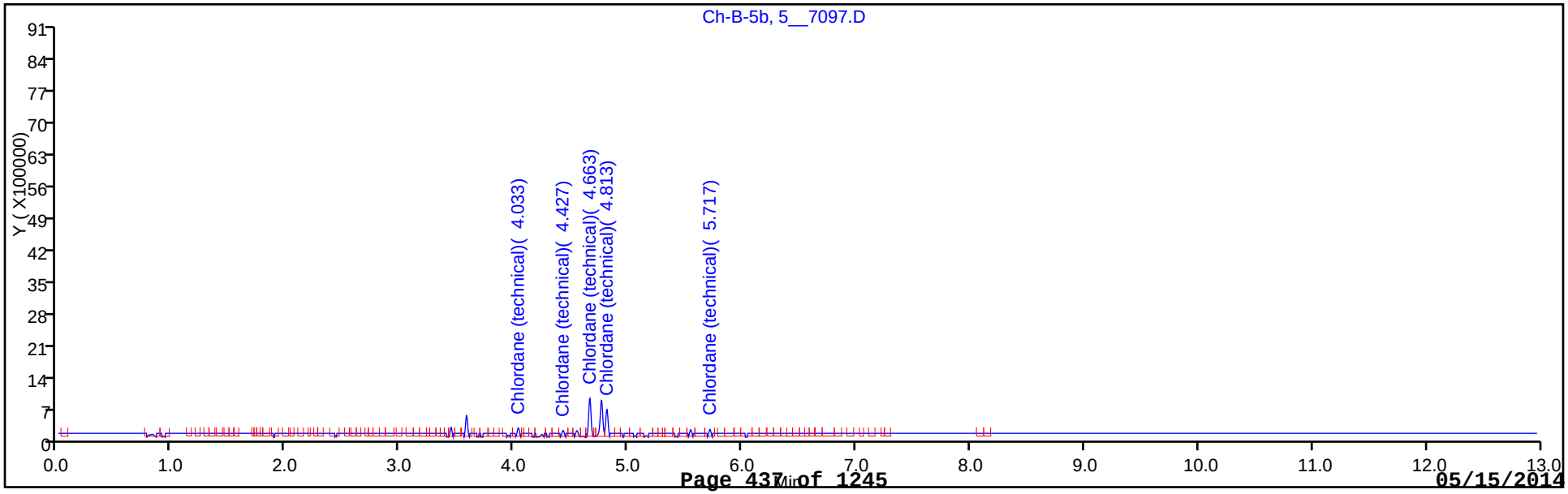
Data File: \\Bufchrom\ChromData\HP6890-05\20140326-30487.b\5__7097.D

Injection Date:	27-Mar-2014 19:12:01	Instrument ID:	HP6890-5	Operator ID:	buftchrom
Lims ID:	std			Worklist Smp#:	30
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8081-5	Limit Group:	GC - 8081B ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-05\20140326-30487.b\5__7098.D
Lims ID: std
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 27-Mar-2014 19:29:41 ALS Bottle#: 0 Worklist Smp#: 31
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, None
Operator ID: buftchrom Instrument ID: HP6890-5
Sublist: chrom-8081-5*sub6

Method: \\Bufchrom\ChromData\HP6890-05\20140326-30487.b\8081-5.m
Limit Group: GC - 8081B ICAL
Last Update: 28-Mar-2014 10:55:37 Calib Date: 27-Mar-2014 19:29:41
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP6890-05\20140326-30487.b\5__7098.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK034

First Level Reviewer: WolfL Date: 28-Mar-2014 10:34:27

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	On-Col Amt ng/ul	Flags
11 Chlordane (technical)						
1	3.370	3.370	0.0	148211	0.0543	
1	3.727	3.727	0.0	86268	0.0556	
1	3.903	3.903	0.0	576331	0.0527	
1	4.023	4.023	0.0	988141	0.0523	
1	4.790	4.793	-0.003	125664	0.0545	
		Average of Peak Amounts =			0.0539	
2	4.033	4.033	0.0	189252	0.0487	
2	4.430	4.427	0.003	164769	0.0520	
2	4.663	4.663	0.0	670986	0.0506	
2	4.813	4.813	0.0	487683	0.0508	
2	5.717	5.717	0.0	147061	0.0516	
		Average of Peak Amounts =			0.0507	
				RPD =	6.07	

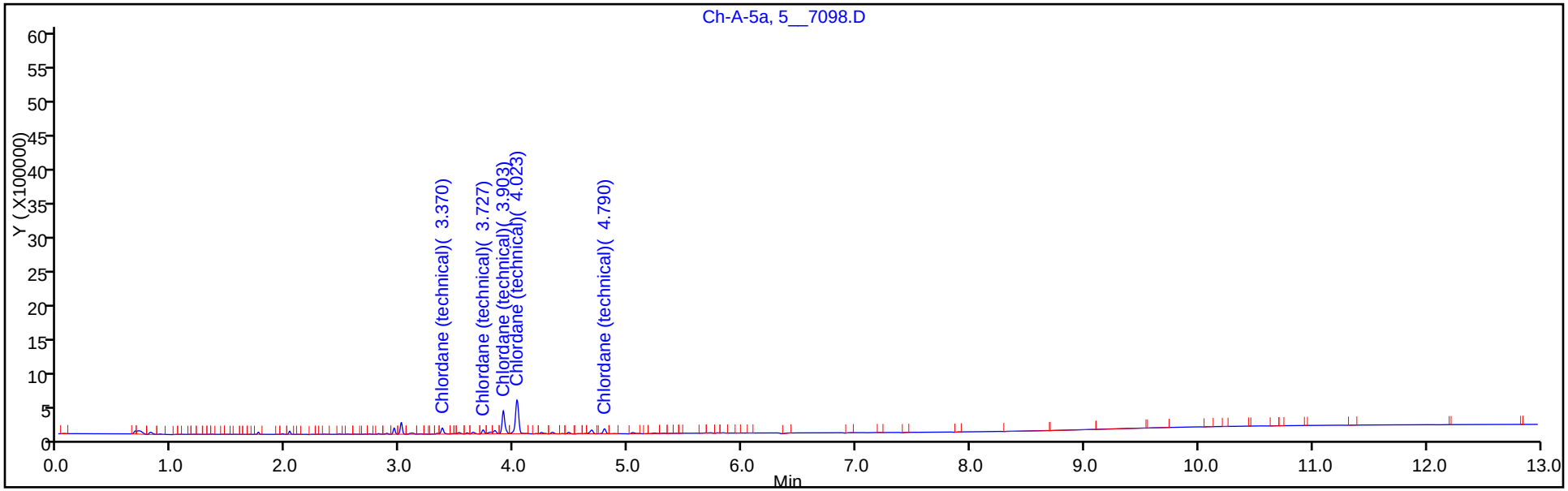
Report Date: 28-Mar-2014 10:55:37 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Buffalo

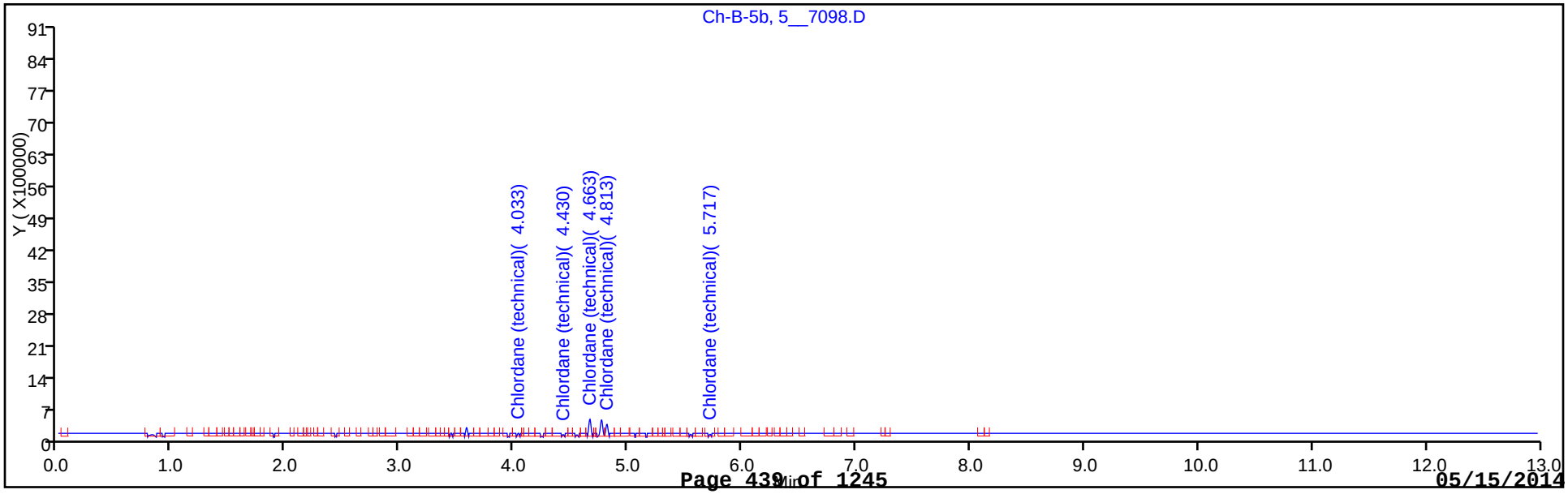
Data File: \\Bufchrom\ChromData\HP6890-05\20140326-30487.b\5__7098.D

Injection Date:	27-Mar-2014 19:29:41	Instrument ID:	HP6890-5	Operator ID:	buftchrom
Lims ID:	std			Worklist Smp#:	31
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8081-5	Limit Group:	GC - 8081B ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1 Analy Batch No.: 172072

SDG No.:

Instrument ID: HP6890-5 GC Column: RTX-CLPII ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/27/2014 18:19 Calibration End Date: 03/27/2014 19:29 Calibration ID: 17869

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 480-172072/31	5__7098.D
Level 2	STD 480-172072/30	5__7097.D
Level 3	STD 480-172072/29	5__7096.D
Level 4	STD 480-172072/28	5__7095.D
Level 5	STD 480-172072/27	5__7094.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5						RT WINDOW	AVG RT
Chlordane (technical) Peak 1	4.033	4.033	4.033	4.037	4.037						4.003 - 4.063	4.035
Chlordane (technical) Peak 2	4.430	4.427	4.427	4.430	4.430						4.397 - 4.457	4.429
Chlordane (technical) Peak 3	4.663	4.663	4.663	4.663	4.663						4.633 - 4.693	4.663
Chlordane (technical) Peak 4	4.813	4.813	4.813	4.813	4.813						4.783 - 4.843	4.813
Chlordane (technical) Peak 5	5.717	5.717	5.717	5.717	5.717						5.687 - 5.747	5.717

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1 Analy Batch No.: 172072

SDG No.:

Instrument ID: HP6890-5 GC Column: RTX-CLPII ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/27/2014 18:19 Calibration End Date: 03/27/2014 19:29 Calibration ID: 17869

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 480-172072/31	5__7098.D
Level 2	STD 480-172072/30	5__7097.D
Level 3	STD 480-172072/29	5__7096.D
Level 4	STD 480-172072/28	5__7095.D
Level 5	STD 480-172072/27	5__7094.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 3	LVL 4		B	M1	M2								
Chlordane (technical) Peak 1	3785040 3627301	3734090	3885372	3617737	Lin1	11423.5034	3652989.68							0.9990		0.9900
Chlordane (technical) Peak 2	3295380 3359575	3072210	3436026	3295454	Lin1	-9615.8458	3356475.63							1.0000		0.9900
Chlordane (technical) Peak 3	13419720 15011753	13823900	15190064	14902022	Lin1	-91866.787	15088061.6							1.0000		0.9900
Chlordane (technical) Peak 4	9753660 10976061	10018380	11012432	10740245	Lin1	-69375.919	10967286.9							1.0000		0.9900
Chlordane (technical) Peak 5	2941220 3748026	3133610	3732314	3635422	Lin1	-46512.464	3751302.32							1.0000		0.9900

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

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1 Analy Batch No.: 172072

SDG No.:

Instrument ID: HP6890-5 GC Column: RTX-CLPII ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/27/2014 18:19 Calibration End Date: 03/27/2014 19:29 Calibration ID: 17869

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 480-172072/31	5__7098.D
Level 2	STD 480-172072/30	5__7097.D
Level 3	STD 480-172072/29	5__7096.D
Level 4	STD 480-172072/28	5__7095.D
Level 5	STD 480-172072/27	5__7094.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
		LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
Chlordane (technical) Peak 1	Lin1	189252	373409	1942686	3617737	5440951	0.0500	0.100	0.500	1.00	1.50
Chlordane (technical) Peak 2	Lin1	164769	307221	1718013	3295454	5039362	0.0500	0.100	0.500	1.00	1.50
Chlordane (technical) Peak 3	Lin1	670986	1382390	7595032	14902022	22517630	0.0500	0.100	0.500	1.00	1.50
Chlordane (technical) Peak 4	Lin1	487683	1001838	5506216	10740245	16464092	0.0500	0.100	0.500	1.00	1.50
Chlordane (technical) Peak 5	Lin1	147061	313361	1866157	3635422	5622039	0.0500	0.100	0.500	1.00	1.50

Curve Type Legend:
Lin1 = Linear 1/conc

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-05\20140326-30487.b\5__7094.D
Lims ID: std
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 27-Mar-2014 18:19:00 ALS Bottle#: 0 Worklist Smp#: 27
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, None
Operator ID: buftchrom Instrument ID: HP6890-5
Sublist: chrom-8081-5*sub6

Method: \\Bufchrom\ChromData\HP6890-05\20140326-30487.b\8081-5.m
Limit Group: GC - 8081B ICAL
Last Update: 28-Mar-2014 10:55:27 Calib Date: 27-Mar-2014 19:29:41
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP6890-05\20140326-30487.b\5__7098.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK034

First Level Reviewer: WolfL Date: 28-Mar-2014 10:31:32

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	On-Col Amt ng/ul	Flags
11 Chlordane (technical)						
1	3.370	3.370	0.0	4296302	1.50	
1	3.727	3.727	0.0	3170150	1.53	
1	3.907	3.903	0.004	20897967	1.52	
1	4.027	4.023	0.004	35114127	1.52	
1	4.790	4.793	-0.003	5187462	1.53	
		Average of Peak Amounts =			1.52	
2	4.037	4.033	0.004	5440951	1.49	
2	4.430	4.427	0.003	5039362	1.50	
2	4.663	4.663	0.0	22517630	1.50	
2	4.813	4.813	0.0	16464092	1.51	
2	5.717	5.717	0.0	5622039	1.51	
		Average of Peak Amounts =			1.50	
				RPD =	1.07	

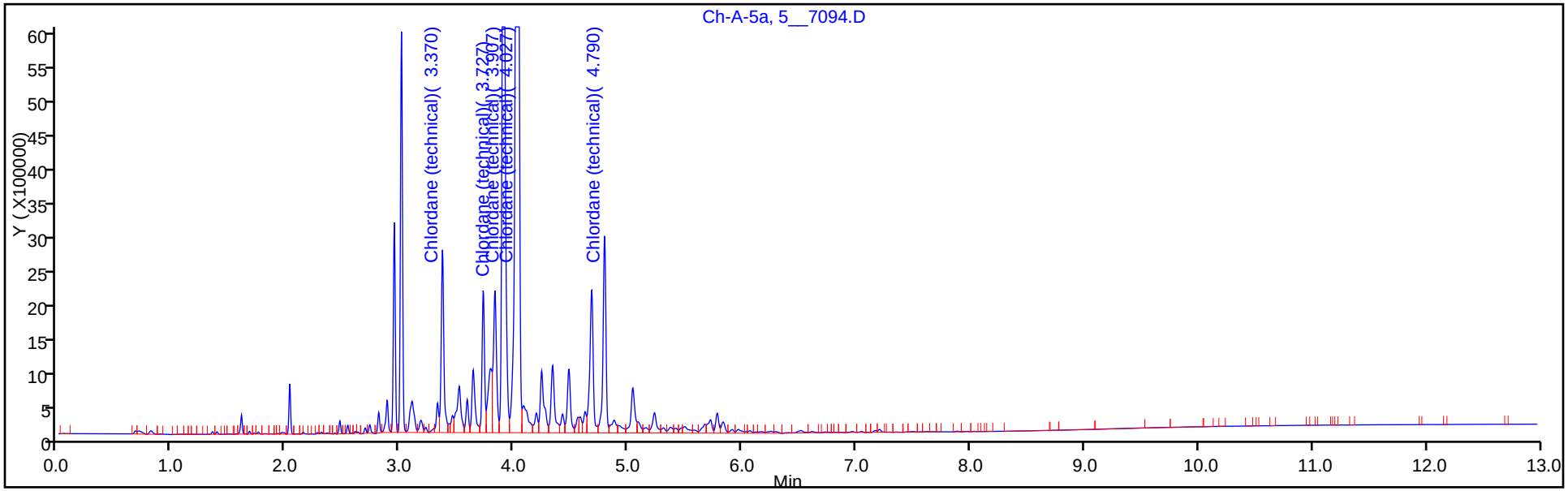
Report Date: 28-Mar-2014 10:55:28 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Buffalo

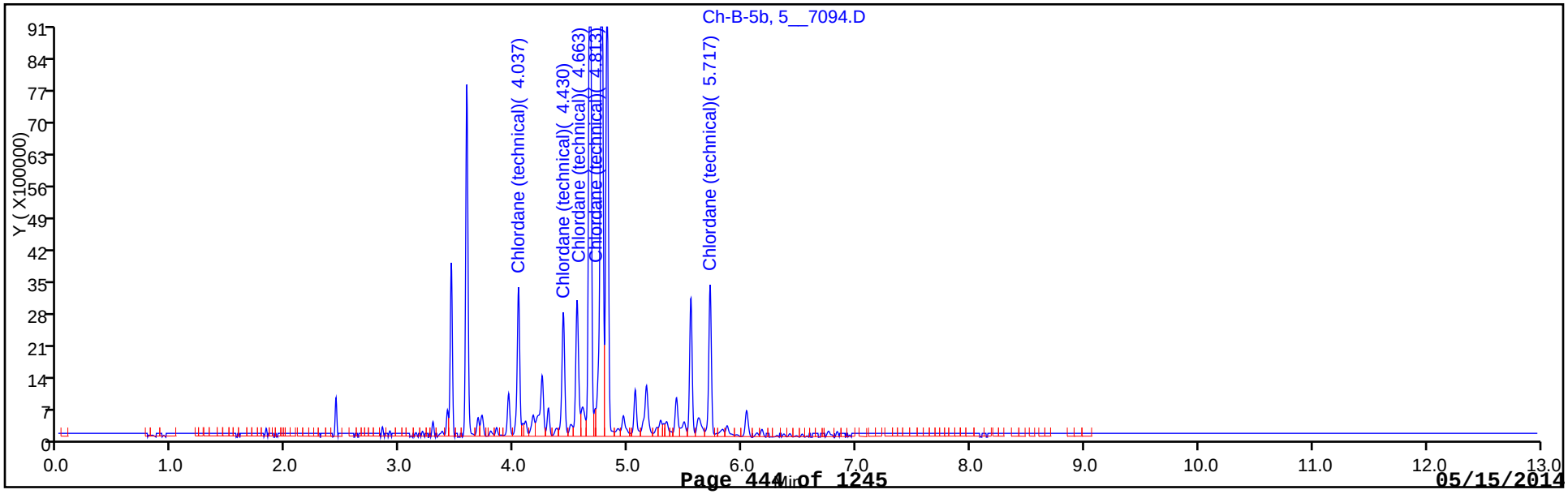
Data File: \\Bufchrom\ChromData\HP6890-05\20140326-30487.b\5__7094.D

Injection Date:	27-Mar-2014 18:19:00	Instrument ID:	HP6890-5	Operator ID:	buftchrom
Lims ID:	std			Worklist Smp#:	27
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8081-5	Limit Group:	GC - 8081B ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-05\20140326-30487.b\5__7095.D
Lims ID: std
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 27-Mar-2014 18:36:43 ALS Bottle#: 0 Worklist Smp#: 28
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, None
Operator ID: buftchrom Instrument ID: HP6890-5
Sublist: chrom-8081-5*sub6

Method: \\Bufchrom\ChromData\HP6890-05\20140326-30487.b\8081-5.m
Limit Group: GC - 8081B ICAL
Last Update: 28-Mar-2014 10:55:30 Calib Date: 27-Mar-2014 19:29:41
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP6890-05\20140326-30487.b\5__7098.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK034

First Level Reviewer: WolfL Date: 28-Mar-2014 10:33:38

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	On-Col Amt ng/ul	Flags
11 Chlordane (technical)						
1	3.370	3.370	0.0	2928799	1.02	
1	3.727	3.727	0.0	2096739	1.01	
1	3.903	3.903	0.0	13661781	1.00	
1	4.023	4.023	0.0	22859749	0.99	
1	4.790	4.793	-0.003	3368012	1.00	
		Average of Peak Amounts =			1.00	
2	4.037	4.033	0.004	3617737	0.9872	
2	4.430	4.427	0.003	3295454	0.9847	
2	4.663	4.663	0.0	14902022	0.99	
2	4.813	4.813	0.0	10740245	0.9856	
2	5.717	5.717	0.0	3635422	0.9815	
		Average of Peak Amounts =			0.9866	
				RPD =	1.81	

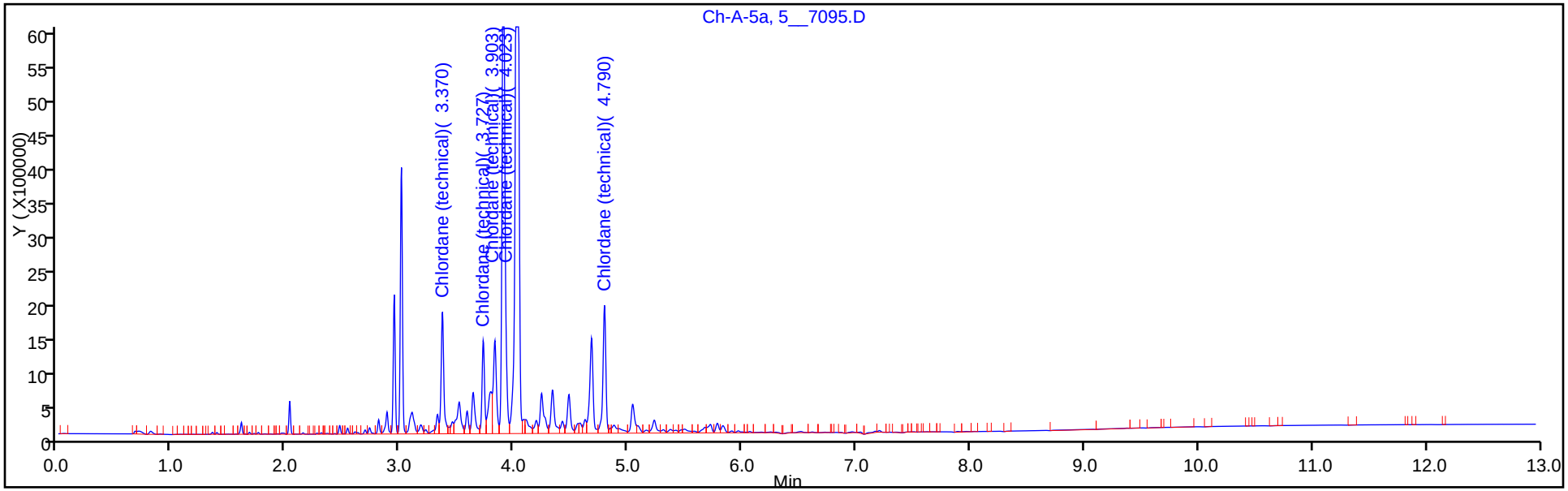
Report Date: 28-Mar-2014 10:55:31 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Buffalo

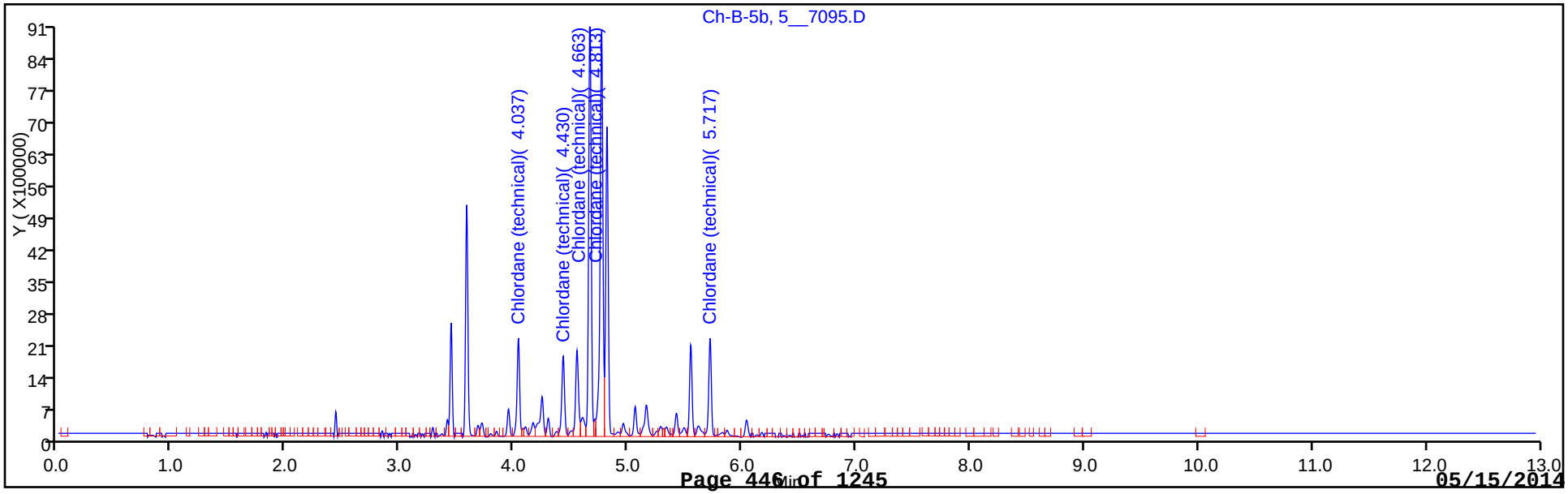
Data File: \\Bufchrom\ChromData\HP6890-05\20140326-30487.b\5__7095.D

Injection Date:	27-Mar-2014 18:36:43	Instrument ID:	HP6890-5	Operator ID:	buftchrom
Lims ID:	std			Worklist Smp#:	28
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8081-5	Limit Group:	GC - 8081B ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-05\20140326-30487.b\5__7096.D
Lims ID: std
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 27-Mar-2014 18:54:20 ALS Bottle#: 0 Worklist Smp#: 29
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, None
Operator ID: buftchrom Instrument ID: HP6890-5
Sublist: chrom-8081-5*sub6

Method: \\Bufchrom\ChromData\HP6890-05\20140326-30487.b\8081-5.m
Limit Group: GC - 8081B ICAL
Last Update: 28-Mar-2014 10:55:32 Calib Date: 27-Mar-2014 19:29:41
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP6890-05\20140326-30487.b\5__7098.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK034

First Level Reviewer: WolfL Date: 28-Mar-2014 10:34:08

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	On-Col Amt ng/ul	Flags
11 Chlordane (technical)						
1	3.370	3.370	0.0	1385497	0.4847	
1	3.727	3.727	0.0	933455	0.4597	
1	3.903	3.903	0.0	6618181	0.4881	
1	4.023	4.023	0.0	11321226	0.4954	
1	4.793	4.793	0.0	1539080	0.4671	
		Average of Peak Amounts =			0.4790	
2	4.033	4.033	0.0	1942686	0.5287	
2	4.427	4.427	0.0	1718013	0.5147	
2	4.663	4.663	0.0	7595032	0.5095	
2	4.813	4.813	0.0	5506216	0.5084	
2	5.717	5.717	0.0	1866157	0.5099	
		Average of Peak Amounts =			0.5142	
				RPD =	7.09	

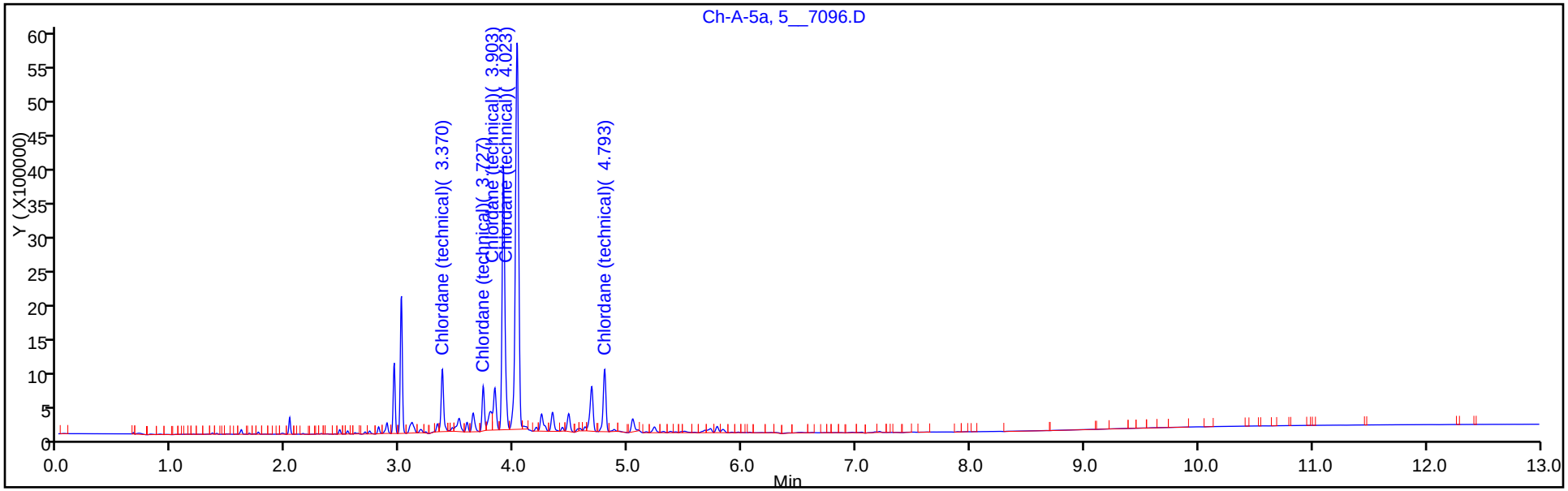
Report Date: 28-Mar-2014 10:55:33 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Buffalo

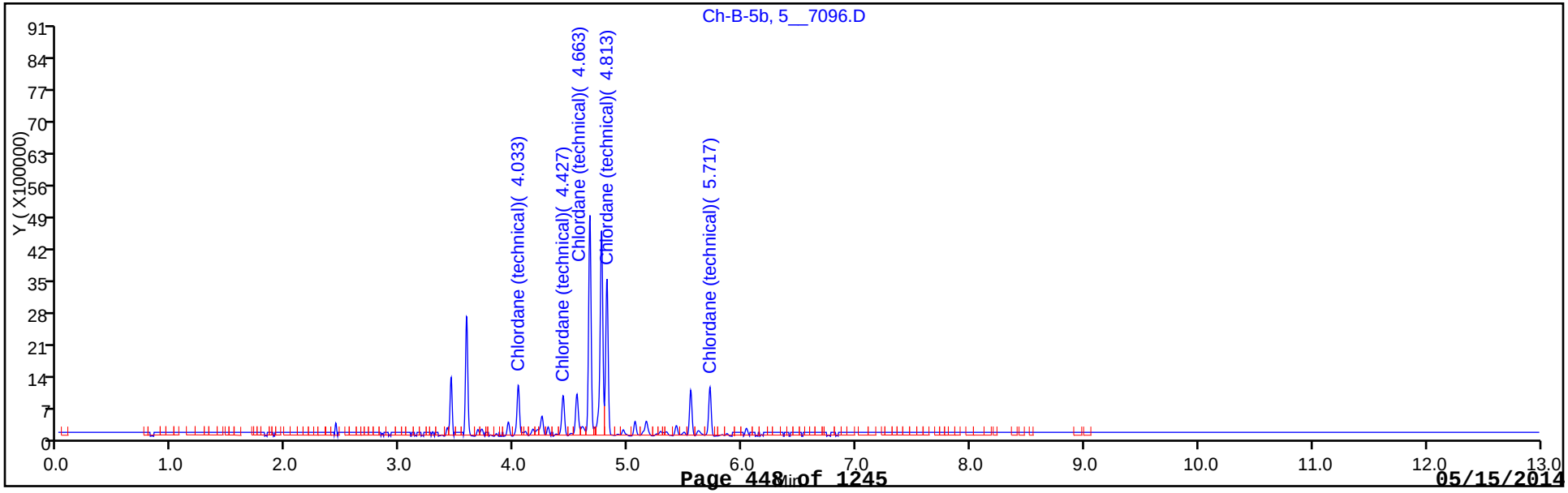
Data File: \\Bufchrom\ChromData\HP6890-05\20140326-30487.b\5__7096.D

Injection Date:	27-Mar-2014 18:54:20	Instrument ID:	HP6890-5	Operator ID:	buftchrom
Lims ID:	std			Worklist Smp#:	29
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8081-5	Limit Group:	GC - 8081B ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-05\20140326-30487.b\5__7097.D
Lims ID: std
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 27-Mar-2014 19:12:01 ALS Bottle#: 0 Worklist Smp#: 30
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, None
Operator ID: buftchrom Instrument ID: HP6890-5
Sublist: chrom-8081-5*sub6

Method: \\Bufchrom\ChromData\HP6890-05\20140326-30487.b\8081-5.m
Limit Group: GC - 8081B ICAL
Last Update: 28-Mar-2014 10:55:35 Calib Date: 27-Mar-2014 19:29:41
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP6890-05\20140326-30487.b\5__7098.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK034

First Level Reviewer: WolfL Date: 28-Mar-2014 10:34:19

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	On-Col Amt ng/ul	Flags
11 Chlordane (technical)						
1	3.370	3.370	0.0	257982	0.0925	
1	3.727	3.727	0.0	165826	0.0936	
1	3.903	3.903	0.0	1179188	0.0962	
1	4.023	4.023	0.0	2015832	0.0963	
1	4.790	4.793	-0.003	265335	0.0953	
		Average of Peak Amounts =			0.0948	
2	4.033	4.033	0.0	373409	0.0991	
2	4.427	4.427	0.0	307221	0.0944	
2	4.663	4.663	0.0	1382390	0.0977	
2	4.813	4.813	0.0	1001838	0.0977	
2	5.717	5.717	0.0	313361	0.0959	
		Average of Peak Amounts =			0.0970	
				RPD =	2.28	

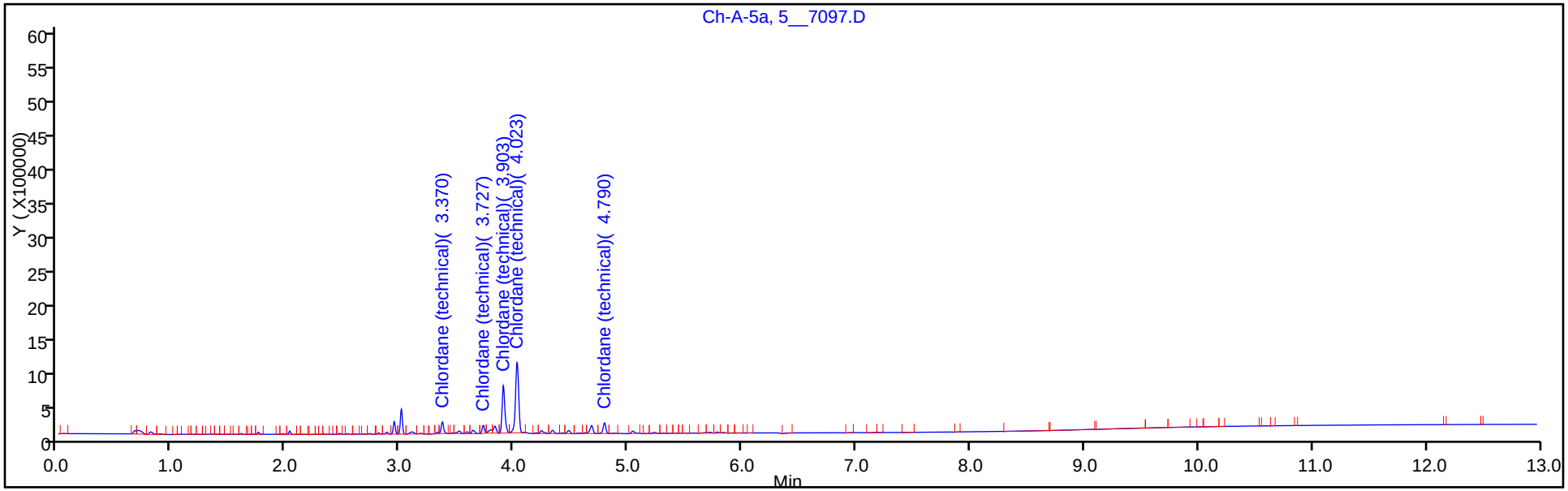
Report Date: 28-Mar-2014 10:55:36 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Buffalo

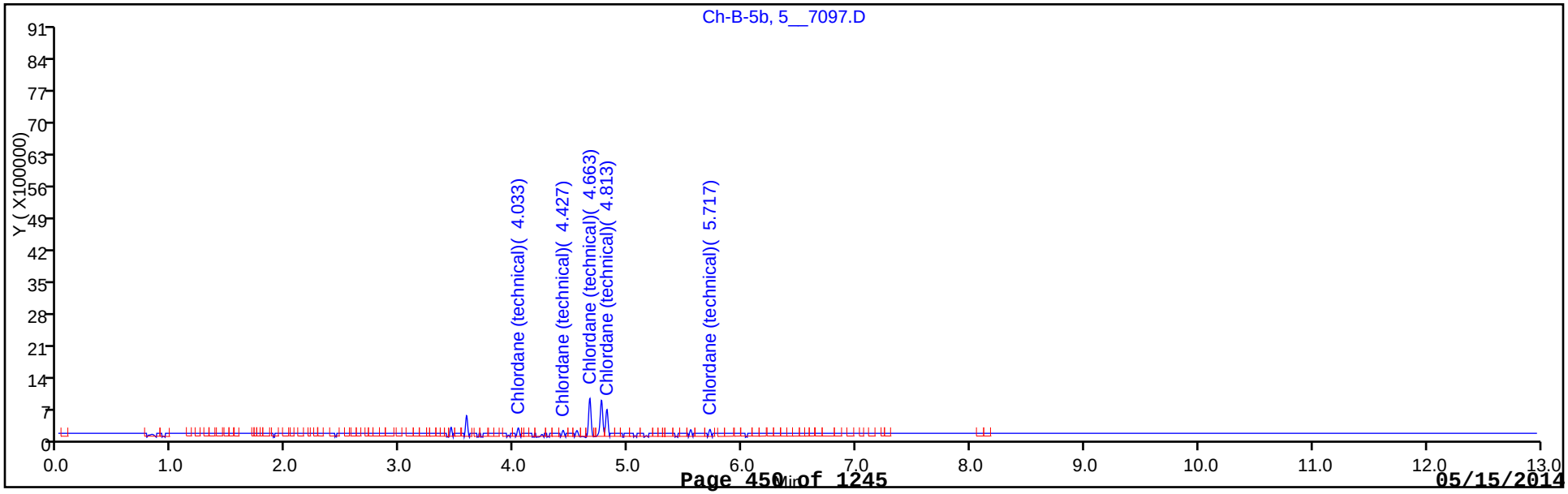
Data File: \\Bufchrom\ChromData\HP6890-05\20140326-30487.b\5__7097.D

Injection Date:	27-Mar-2014 19:12:01	Instrument ID:	HP6890-5	Operator ID:	buftchrom
Lims ID:	std			Worklist Smp#:	30
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8081-5	Limit Group:	GC - 8081B ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-05\20140326-30487.b\5__7098.D
Lims ID: std
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 27-Mar-2014 19:29:41 ALS Bottle#: 0 Worklist Smp#: 31
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, None
Operator ID: buftchrom Instrument ID: HP6890-5
Sublist: chrom-8081-5*sub6

Method: \\Bufchrom\ChromData\HP6890-05\20140326-30487.b\8081-5.m
Limit Group: GC - 8081B ICAL
Last Update: 28-Mar-2014 10:55:37 Calib Date: 27-Mar-2014 19:29:41
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP6890-05\20140326-30487.b\5__7098.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK034

First Level Reviewer: WolfL Date: 28-Mar-2014 10:34:27

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	On-Col Amt ng/ul	Flags
11 Chlordane (technical)						
1	3.370	3.370	0.0	148211	0.0543	
1	3.727	3.727	0.0	86268	0.0556	
1	3.903	3.903	0.0	576331	0.0527	
1	4.023	4.023	0.0	988141	0.0523	
1	4.790	4.793	-0.003	125664	0.0545	
		Average of Peak Amounts =			0.0539	
2	4.033	4.033	0.0	189252	0.0487	
2	4.430	4.427	0.003	164769	0.0520	
2	4.663	4.663	0.0	670986	0.0506	
2	4.813	4.813	0.0	487683	0.0508	
2	5.717	5.717	0.0	147061	0.0516	
		Average of Peak Amounts =			0.0507	
				RPD =	6.07	

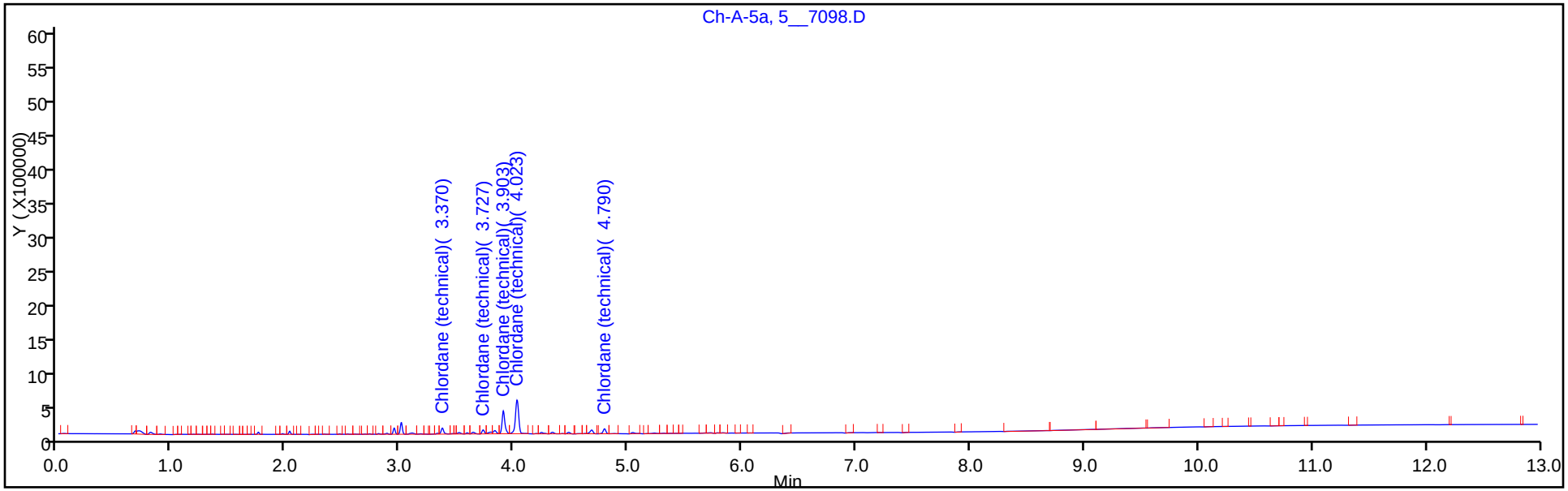
Report Date: 28-Mar-2014 10:55:37 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Buffalo

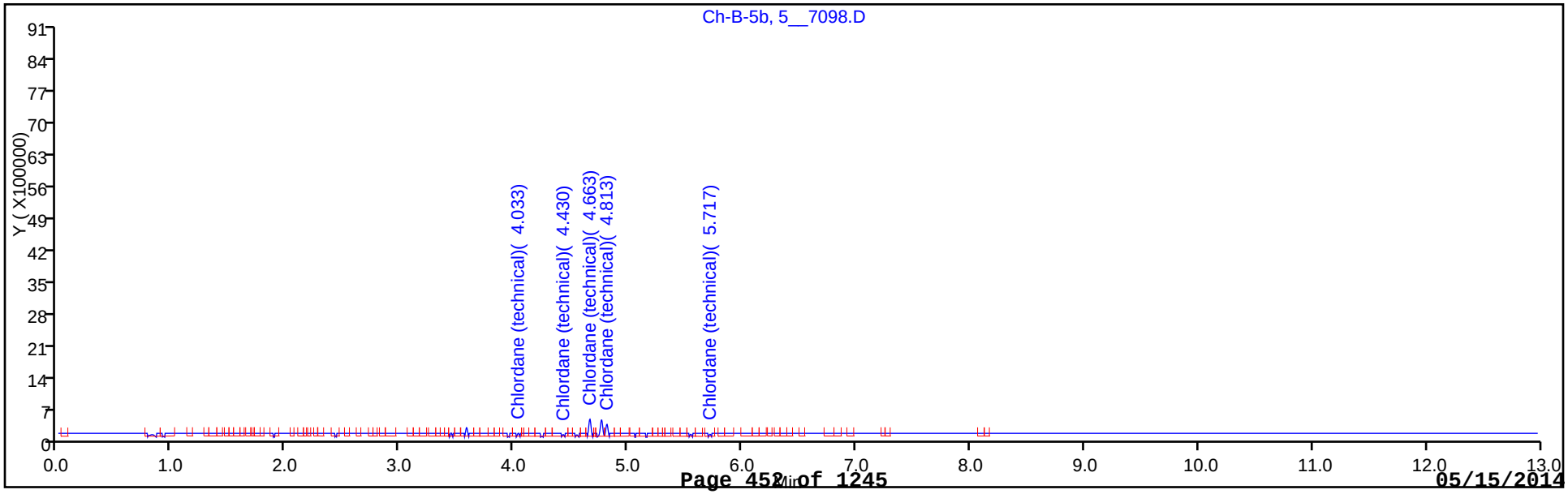
Data File: \\Bufchrom\ChromData\HP6890-05\20140326-30487.b\5__7098.D

Injection Date:	27-Mar-2014 19:29:41	Instrument ID:	HP6890-5	Operator ID:	buftchrom
Lims ID:	std			Worklist Smp#:	31
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8081-5	Limit Group:	GC - 8081B ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
GC SEMI VOA PERFORMANCE EVALUATION MIXTURE (PEM)

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1

SDG No.:

Lab Sample ID: PEM 480-181145/3 Calibration Date: 05/09/2014 09:36

Instrument ID: HP6890-5 Calib Start Date: 03/26/2014 13:21

GC Column: RTX-CLPI ID: 0.53(mm) Calib End Date: 03/26/2014 14:32

Lab File ID: 5_10109.D Conc. Units: ng/uL

ANALYTE	RT	RESPONSE	BREAKDOWN (%)	LIMIT	#
Endrin	4.69	4026727	0.00	20	
Endrin aldehyde		0			
Endrin ketone		0			

ANALYTE	RT	RESPONSE	BREAKDOWN (%)	LIMIT	#
4,4'-DDT	5.08	9160296	0.68	20	
4,4'-DDD	4.79	28047			
4,4'-DDE	4.18	34468			

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-05\20140509-31941.b\5_10109.D
Lims ID: pem
Client ID:
Sample Type: PEM
Inject. Date: 09-May-2014 09:36:41 ALS Bottle#: 0 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, CN10520009
Operator ID: buftchrom Instrument ID: HP6890-5
Sublist: chrom-8081-25*sub9

Method: \\Bufchrom\ChromData\HP6890-05\20140509-31941.b\8081-5.m
Limit Group: GC - 8081B ICAL
Last Update: 12-May-2014 12:38:01 Calib Date: 27-Mar-2014 19:29:41
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP6890-05\20140326-30487.b\5__7098.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK027

First Level Reviewer: WolfL Date: 09-May-2014 10:24:14

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
$ 1 Tetrachloro-m-xylene							
1	2.100	2.107	-0.007	1397499	0.0200	0.0189	
2	2.440	2.447	-0.007	1971949	0.0200	0.0216	
						RPD = 13.21	
$ 2 DCB Decachlorobiphenyl							
1	7.113	7.123	-0.010	1490316	0.0200	0.0183	
2	8.113	8.120	-0.007	1433758	0.0200	0.0204	
						RPD = 10.87	
4 alpha-BHC							
1	2.467	2.473	-0.006	1051001	0.0100	0.009447	
2	2.913	2.920	-0.007	1527044	0.0100	0.0107	
						RPD = 12.77	
6 gamma-BHC (Lindane)							
1	2.690	2.697	-0.007	973071	0.0100	0.009614	
2	3.217	3.223	-0.006	1404543	0.0100	0.0108	
						RPD = 11.83	
7 beta-BHC							
1	2.753	2.760	-0.007	420887	0.0100	0.0102	
2	3.283	3.290	-0.007	605228	0.0100	0.0114	
						RPD = 11.19	
16 4,4'-DDE							
1	4.183	4.190	-0.007	34468		0.001727	
2	5.047	5.053	-0.006	30080		0.001430	
						RPD = 18.82	
20 Endrin							
1	4.690	4.697	-0.007	4026727	0.0500	0.0563	
2	5.503	5.510	-0.007	5140684	0.0500	0.0585	
						RPD = 3.88	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
22 4,4'-DDD							
1	4.793	4.797	-0.004	28047		0.001591	
2	5.637	5.640	-0.003	14175		0.001027	
						RPD = 43.05	
26 4,4'-DDT							
1	5.077	5.083	-0.006	9160296	0.1000	0.1158	
2	5.950	5.960	-0.010	9368643	0.1000	0.1013	
						RPD = 13.28	
29 Methoxychlor							
1	5.597	5.607	-0.010	10527486	0.2500	0.2506	E
2	6.640	6.647	-0.007	11241743	0.2500	0.2750	E
						RPD = 9.30	

QC Flag Legend

Processing Flags
E - Exceeded Maximum Amount

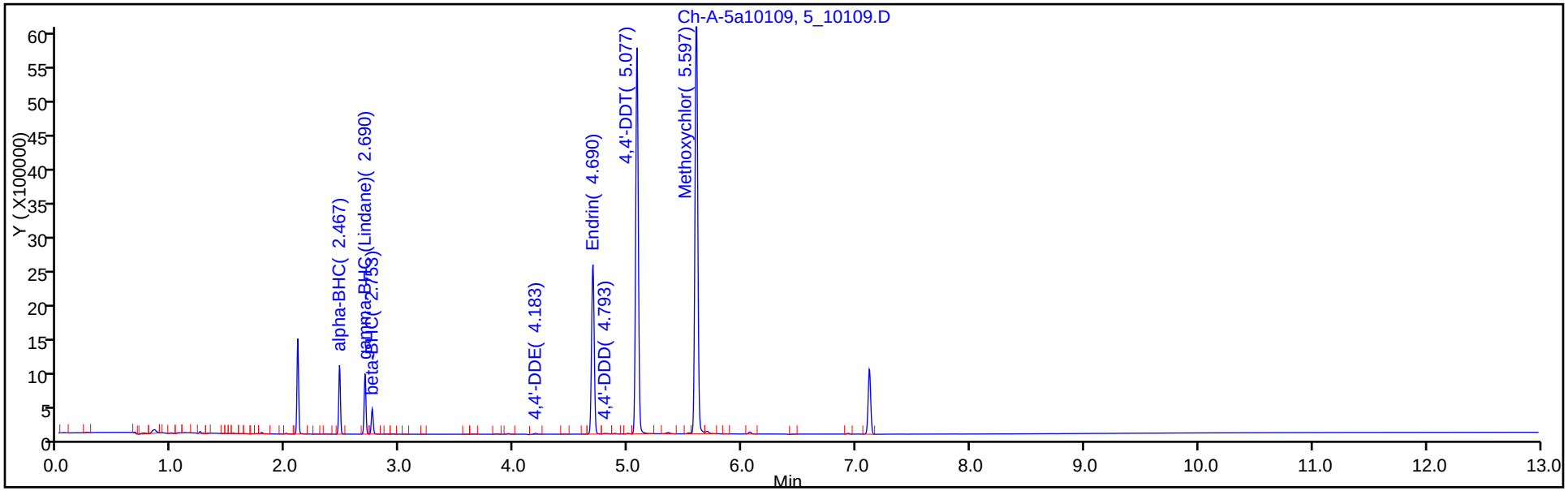
Report Date: 12-May-2014 12:38:03 Chrom Revision: 2.2 14-Apr-2014 13:40:08

TestAmerica Buffalo

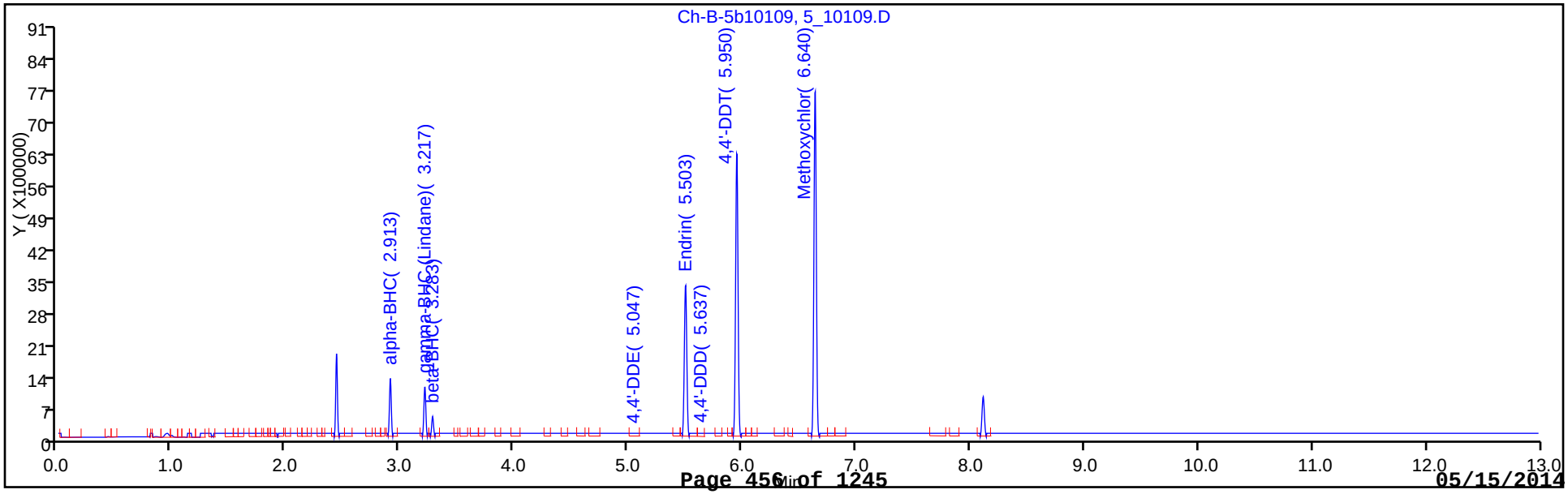
Data File: \\Bufchrom\ChromData\HP6890-05\20140509-31941.b\5_10109.D

Injection Date:	09-May-2014 09:36:41	Instrument ID:	HP6890-5	Operator ID:	buftchrom
Lims ID:	pem			Worklist Smp#:	3
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8081-5	Limit Group:	GC - 8081B ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
GC SEMI VOA PERFORMANCE EVALUATION MIXTURE (PEM)

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1

SDG No.:

Lab Sample ID: PEM 480-181145/3 Calibration Date: 05/09/2014 09:36

Instrument ID: HP6890-5 Calib Start Date: 03/26/2014 13:21

GC Column: RTX-CLPII ID: 0.53(mm) Calib End Date: 03/26/2014 14:32

Lab File ID: 5_10109.D Conc. Units: ng/uL

ANALYTE	RT	RESPONSE	BREAKDOWN (%)	LIMIT	#
Endrin	5.50	5140684	0.00	20	
Endrin aldehyde		0			
Endrin ketone		0			

ANALYTE	RT	RESPONSE	BREAKDOWN (%)	LIMIT	#
4,4'-DDT	5.95	9368643	0.47	20	
4,4'-DDD	5.64	14175			
4,4'-DDE	5.05	30080			

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-05\20140509-31941.b\5_10109.D
Lims ID: pem
Client ID:
Sample Type: PEM
Inject. Date: 09-May-2014 09:36:41 ALS Bottle#: 0 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, CN10520009
Operator ID: buftchrom Instrument ID: HP6890-5
Sublist: chrom-8081-25*sub9

Method: \\Bufchrom\ChromData\HP6890-05\20140509-31941.b\8081-5.m
Limit Group: GC - 8081B ICAL
Last Update: 12-May-2014 12:38:01 Calib Date: 27-Mar-2014 19:29:41
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP6890-05\20140326-30487.b\5__7098.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK027

First Level Reviewer: WolfL Date: 09-May-2014 10:24:14

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
$ 1 Tetrachloro-m-xylene							
1	2.100	2.107	-0.007	1397499	0.0200	0.0189	
2	2.440	2.447	-0.007	1971949	0.0200	0.0216	
						RPD = 13.21	
$ 2 DCB Decachlorobiphenyl							
1	7.113	7.123	-0.010	1490316	0.0200	0.0183	
2	8.113	8.120	-0.007	1433758	0.0200	0.0204	
						RPD = 10.87	
4 alpha-BHC							
1	2.467	2.473	-0.006	1051001	0.0100	0.009447	
2	2.913	2.920	-0.007	1527044	0.0100	0.0107	
						RPD = 12.77	
6 gamma-BHC (Lindane)							
1	2.690	2.697	-0.007	973071	0.0100	0.009614	
2	3.217	3.223	-0.006	1404543	0.0100	0.0108	
						RPD = 11.83	
7 beta-BHC							
1	2.753	2.760	-0.007	420887	0.0100	0.0102	
2	3.283	3.290	-0.007	605228	0.0100	0.0114	
						RPD = 11.19	
16 4,4'-DDE							
1	4.183	4.190	-0.007	34468		0.001727	
2	5.047	5.053	-0.006	30080		0.001430	
						RPD = 18.82	
20 Endrin							
1	4.690	4.697	-0.007	4026727	0.0500	0.0563	
2	5.503	5.510	-0.007	5140684	0.0500	0.0585	
						RPD = 3.88	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
22 4,4'-DDD							
1	4.793	4.797	-0.004	28047		0.001591	
2	5.637	5.640	-0.003	14175		0.001027	
						RPD = 43.05	
26 4,4'-DDT							
1	5.077	5.083	-0.006	9160296	0.1000	0.1158	
2	5.950	5.960	-0.010	9368643	0.1000	0.1013	
						RPD = 13.28	
29 Methoxychlor							
1	5.597	5.607	-0.010	10527486	0.2500	0.2506	E
2	6.640	6.647	-0.007	11241743	0.2500	0.2750	E
						RPD = 9.30	

QC Flag Legend

Processing Flags
E - Exceeded Maximum Amount

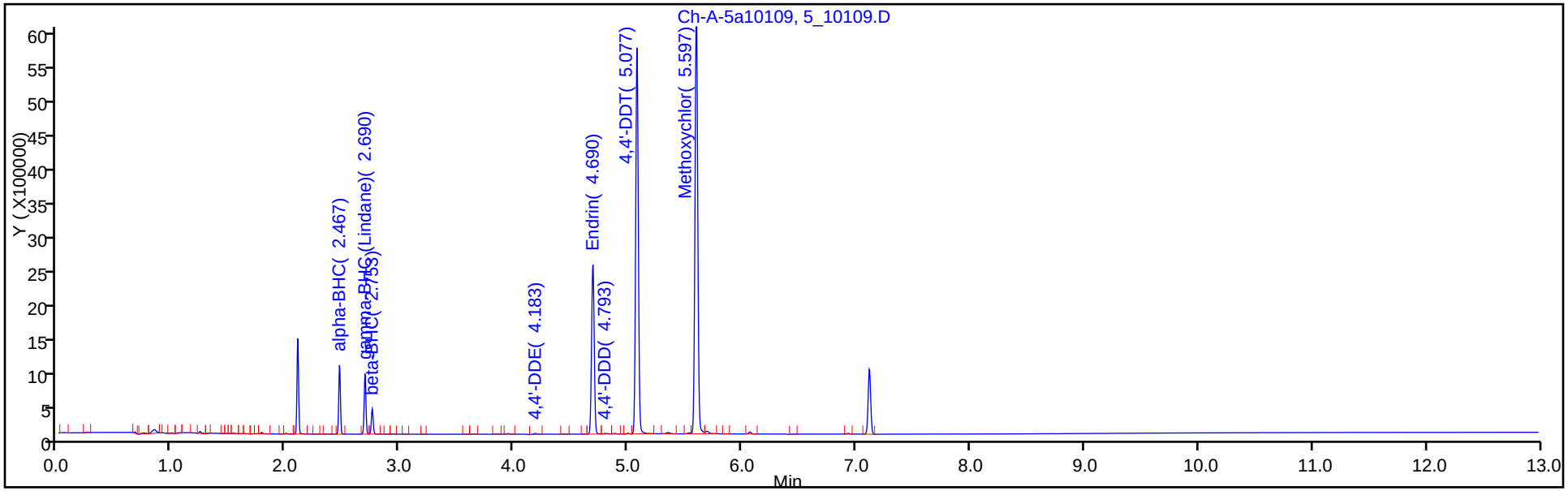
Report Date: 12-May-2014 12:38:03 Chrom Revision: 2.2 14-Apr-2014 13:40:08

TestAmerica Buffalo

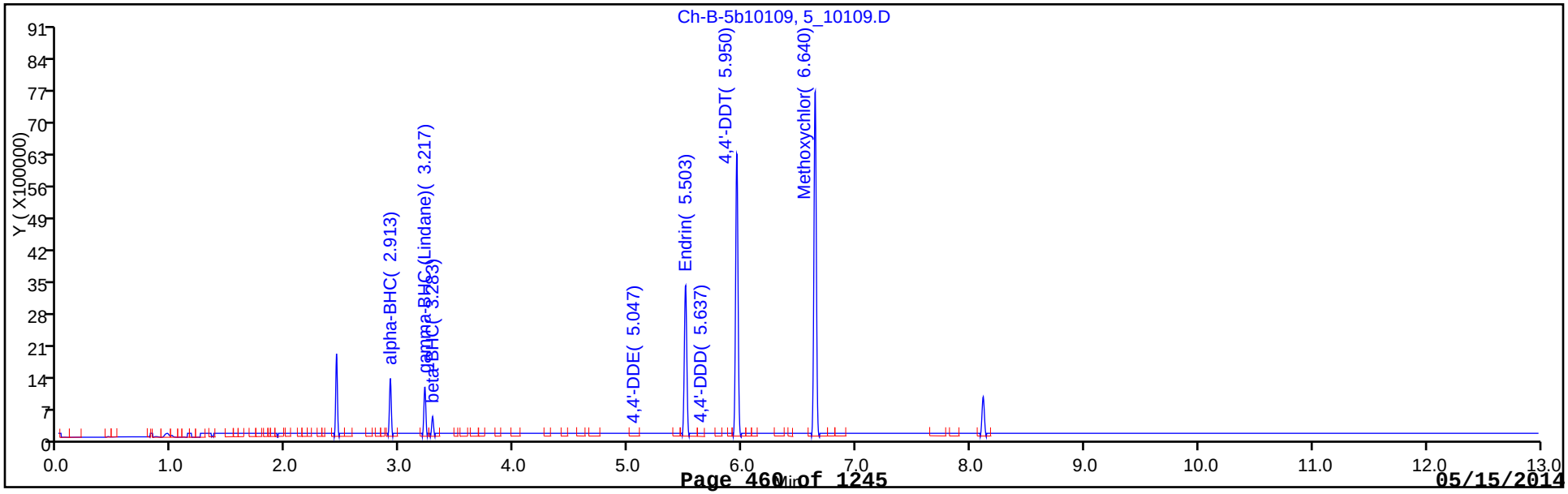
Data File: \\Bufchrom\ChromData\HP6890-05\20140509-31941.b\5_10109.D

Injection Date:	09-May-2014 09:36:41	Instrument ID:	HP6890-5	Operator ID:	buftchrom
Lims ID:	pem			Worklist Smp#:	3
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8081-5	Limit Group:	GC - 8081B ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1

SDG No.:

Lab Sample ID: CCV 480-181145/4 Calibration Date: 05/09/2014 09:54

Instrument ID: HP6890-5 Calib Start Date: 03/26/2014 13:21

GC Column: RTX-CLPI ID: 0.53(mm) Calib End Date: 03/26/2014 14:32

Lab File ID: 5_10110.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
alpha-BHC	Lin1		114780580		0.0442	0.0500	-11.6	20.0
gamma-BHC (Lindane)	Lin1		102900980		0.0444	0.0500	-11.2	20.0
beta-BHC	Lin1		39656440		0.0453	0.0500	-9.4	20.0
delta-BHC	Lin1		104406060		0.0445	0.0500	-11.1	20.0
Heptachlor	Lin1		87439860		0.0461	0.0500	-7.9	20.0
Aldrin	Lin1		91346880		0.0513	0.0500	2.6	20.0
Heptachlor epoxide	Lin1		86223300		0.0495	0.0500	-0.9	20.0
gamma-Chlordane	Lin1		96395120		0.0465	0.0500	-7.1	20.0
alpha-Chlordane	Lin1		91773640		0.0457	0.0500	-8.6	20.0
4,4'-DDE	Lin1		86196200		0.0443	0.0500	-11.3	20.0
Endosulfan I	Lin1		77977540		0.0460	0.0500	-8.0	20.0
Dieldrin	Lin1		81507000		0.0457	0.0500	-8.6	20.0
Endrin	Lin1		77911820		0.0545	0.0500	9.0	20.0
4,4'-DDD	Lin1		70922140		0.0505	0.0500	0.9	20.0
Endosulfan II	Lin1		75595780		0.0537	0.0500	7.3	20.0
4,4'-DDT	Lin1		85955760		0.0550	0.0500	10.1	20.0
Endrin aldehyde	Lin1		60391340		0.0444	0.0500	-11.2	20.0
Methoxychlor	Lin1		43662280		0.0515	0.0500	3.0	20.0
Endosulfan sulfate	Lin1		76784660		0.0435	0.0500	-12.9	20.0
Endrin ketone	Lin1		93256260		0.0451	0.0500	-9.8	20.0
Tetrachloro-m-xylene	Lin1		69335520		0.0455	0.0500	-9.0	20.0
DCB Decachlorobiphenyl	Lin1		61084820		0.0365	0.0500	-26.9*	20.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1

SDG No.:

Lab Sample ID: CCV 480-181145/4 Calibration Date: 05/09/2014 09:54

Instrument ID: HP6890-5 Calib Start Date: 03/26/2014 13:21

GC Column: RTX-CLPI ID: 0.53(mm) Calib End Date: 03/26/2014 14:32

Lab File ID: 5_10110.D

Analyte	RT	RT WINDOW	
		FROM	TO
alpha-BHC	2.47	2.44	2.50
gamma-BHC (Lindane)	2.69	2.66	2.72
beta-BHC	2.76	2.73	2.79
delta-BHC	2.89	2.86	2.92
Heptachlor	3.05	3.02	3.08
Aldrin	3.30	3.27	3.33
Heptachlor epoxide	3.84	3.81	3.87
gamma-Chlordane	3.96	3.93	3.99
alpha-Chlordane	4.09	4.06	4.12
4,4'-DDE	4.19	4.16	4.22
Endosulfan I	4.22	4.19	4.25
Dieldrin	4.46	4.43	4.49
Endrin	4.69	4.66	4.72
4,4'-DDD	4.79	4.76	4.82
Endosulfan II	4.92	4.89	4.95
4,4'-DDT	5.08	5.05	5.11
Endrin aldehyde	5.35	5.32	5.38
Methoxychlor	5.60	5.57	5.63
Endosulfan sulfate	5.79	5.76	5.82
Endrin ketone	6.07	6.04	6.10
Tetrachloro-m-xylene	2.10	2.07	2.13
DCB Decachlorobiphenyl	7.12	7.09	7.15

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-05\20140509-31941.b\5_10110.D
Lims ID: ccv
Client ID:
Sample Type: CCV
Inject. Date: 09-May-2014 09:54:13 ALS Bottle#: 0 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, CN10520009
Operator ID: buftchrom Instrument ID: HP6890-5
Sublist: chrom-8081-5*sub5

Method: \\Bufchrom\ChromData\HP6890-05\20140509-31941.b\8081-5.m
Limit Group: GC - 8081B ICAL
Last Update: 12-May-2014 12:38:04 Calib Date: 27-Mar-2014 19:29:41
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP6890-05\20140326-30487.b\5__7098.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK027

First Level Reviewer: WolfL Date: 09-May-2014 10:16:43

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
$ 1 Tetrachloro-m-xylene							
1	2.103	2.103	0.000	3466776	0.0500	0.0455	a
2	2.443	2.443	0.000	4865507	0.0500	0.0525	a
						RPD = 14.32	
$ 2 DCB Decachlorobiphenyl							
1	7.117	7.117	0.000	3054241	0.0500	0.0365	a
2	8.113	8.113	0.000	3451753	0.0500	0.0491	a
						RPD = 29.32	
4 alpha-BHC							
1	2.470	2.470	0.000	5739029	0.0500	0.0442	a
2	2.913	2.913	0.000	7978247	0.0500	0.0516	a
						RPD = 15.46	
6 gamma-BHC (Lindane)							
1	2.693	2.693	0.000	5145049	0.0500	0.0444	
2	3.217	3.217	0.000	7128525	0.0500	0.0513	a
						RPD = 14.38	
7 beta-BHC							
1	2.757	2.757	0.000	1982822	0.0500	0.0453	a
2	3.283	3.283	0.000	2767552	0.0500	0.0512	a
						RPD = 12.31	
8 delta-BHC							
1	2.890	2.890	0.000	5220303	0.0500	0.0445	a
2	3.553	3.553	0.000	7130096	0.0500	0.0505	a
						RPD = 12.71	
9 Heptachlor							
1	3.053	3.053	0.000	4371993	0.0500	0.0461	a
2	3.633	3.633	0.000	6839707	0.0500	0.0519	a
						RPD = 11.93	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
10 Aldrin							
1	3.300	3.300	0.000	4567344	0.0500	0.0513	a
2	3.947	3.947	0.000	6578909	0.0500	0.0508	a
						RPD = 0.94	
13 Heptachlor epoxide							
1	3.840	3.840	0.000	4311165	0.0500	0.0495	a
2	4.520	4.520	0.000	5690198	0.0500	0.0521	a
						RPD = 4.98	
14 gamma-Chlordane							
1	3.960	3.960	0.000	4819756	0.0500	0.0465	a
2	4.717	4.717	0.000	5942256	0.0500	0.0498	a
						RPD = 6.96	
15 alpha-Chlordane							
1	4.090	4.090	0.000	4588682	0.0500	0.0457	a
2	4.867	4.867	0.000	5473838	0.0500	0.0491	a
						RPD = 7.29	
16 4,4'-DDE							
1	4.187	4.187	0.000	4309810	0.0500	0.0443	a
2	5.047	5.047	0.000	5327728	0.0500	0.0500	a
						RPD = 12.00	
18 Endosulfan I							
1	4.220	4.220	0.000	3898877	0.0500	0.0460	a
2	4.920	4.920	0.000	5029441	0.0500	0.0516	a
						RPD = 11.36	
19 Dieldrin							
1	4.460	4.460	0.000	4075350	0.0500	0.0457	a
2	5.200	5.200	0.000	5605770	0.0500	0.0505	a
						RPD = 9.85	
20 Endrin							
1	4.693	4.693	0.000	3895591	0.0500	0.0545	a
2	5.503	5.503	0.000	4993967	0.0500	0.0569	a
						RPD = 4.31	
22 4,4'-DDD							
1	4.793	4.793	0.000	3546107	0.0500	0.0505	a
2	5.633	5.633	0.000	4247795	0.0500	0.0482	a
						RPD = 4.54	
23 Endosulfan II							
1	4.920	4.920	0.000	3779789	0.0500	0.0537	a
2	5.717	5.717	0.000	4505155	0.0500	0.0501	a
						RPD = 6.79	
26 4,4'-DDT							
1	5.080	5.080	0.000	4297788	0.0500	0.0550	a
2	5.953	5.953	0.000	4239889	0.0500	0.0466	a
						RPD = 16.70	
28 Endrin aldehyde							
1	5.350	5.350	0.000	3019567	0.0500	0.0444	a
2	6.053	6.053	0.000	3394291	0.0500	0.0493	a
						RPD = 10.44	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
29 Methoxychlor							
1	5.600	5.600	0.000	2183114	0.0500	0.0515	a
2	6.640	6.640	0.000	1909424	0.0500	0.0473	a
						RPD = 8.46	
30 Endosulfan sulfate							
1	5.790	5.790	0.000	3839233	0.0500	0.0435	a
2	6.337	6.337	0.000	3512183	0.0500	0.0441	a
						RPD = 1.37	
31 Endrin ketone							
1	6.067	6.067	0.000	4662813	0.0500	0.0451	a
2	6.860	6.860	0.000	4230652	0.0500	0.0466	a
						RPD = 3.24	
S 35 BHC, Total							
1						0.1783	
2						0.2046	
						RPD = 13.72	

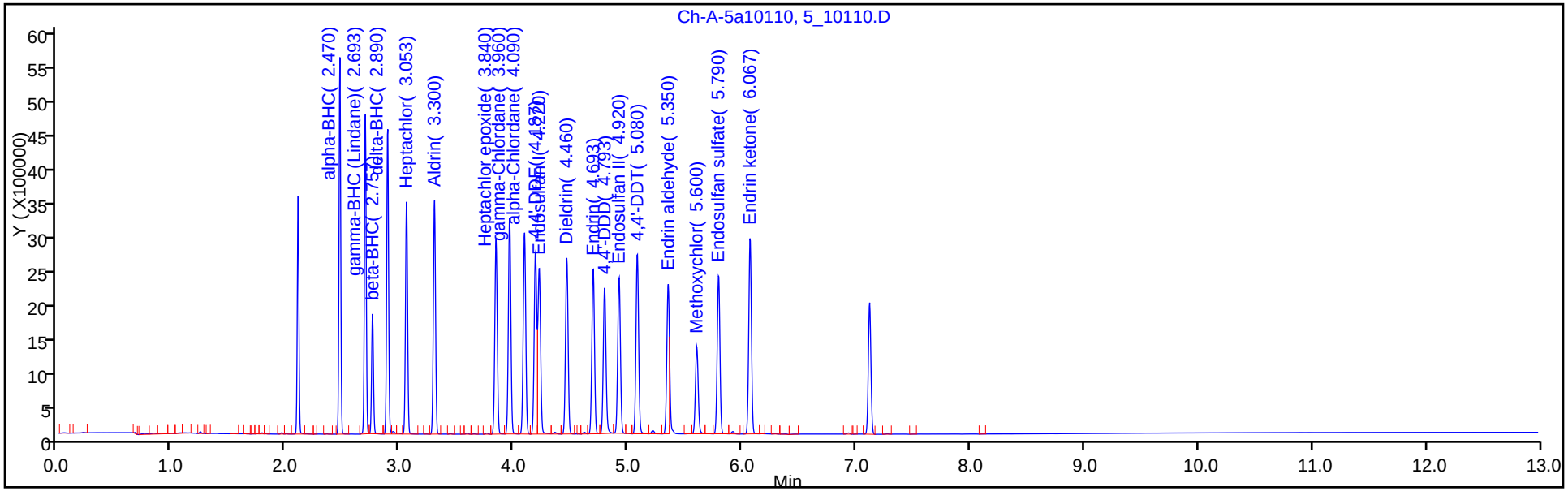
Report Date: 12-May-2014 12:38:05 Chrom Revision: 2.2 14-Apr-2014 13:40:08

TestAmerica Buffalo

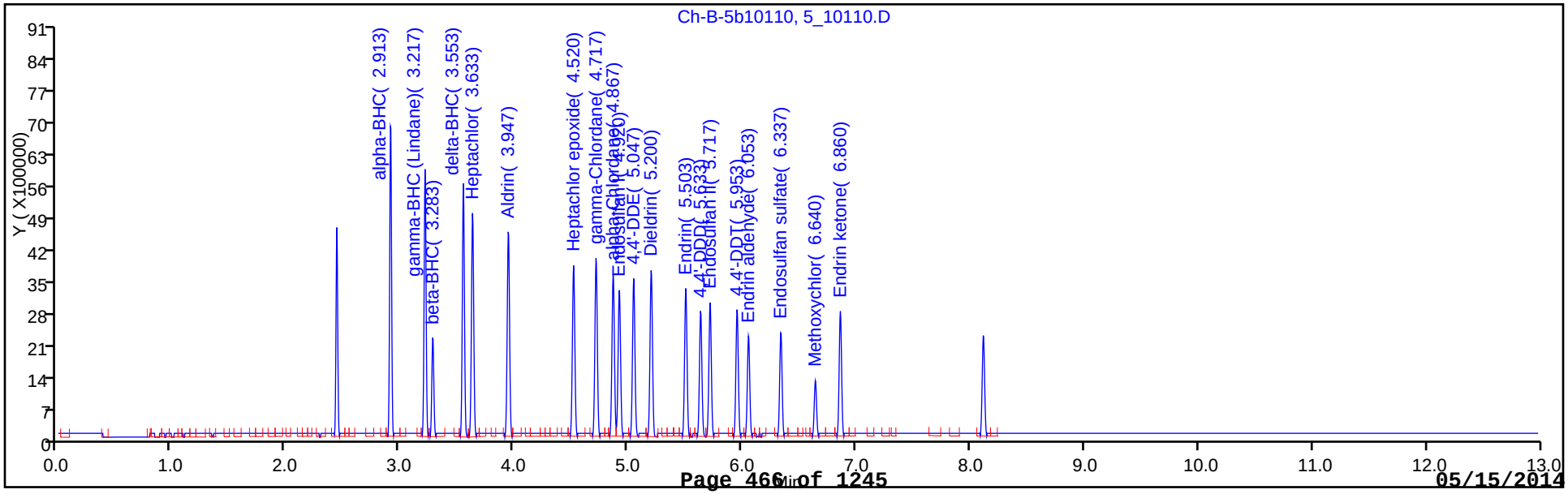
Data File: \\Bufchrom\ChromData\HP6890-05\20140509-31941.b\5_10110.D

Injection Date:	09-May-2014 09:54:13	Instrument ID:	HP6890-5	Operator ID:	buftchrom
Lims ID:	ccv			Worklist Smp#:	4
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8081-5	Limit Group:	GC - 8081B ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1

SDG No.:

Lab Sample ID: CCV 480-181145/4 Calibration Date: 05/09/2014 09:54

Instrument ID: HP6890-5 Calib Start Date: 03/26/2014 13:21

GC Column: RTX-CLPII ID: 0.53(mm) Calib End Date: 03/26/2014 14:32

Lab File ID: 5_10110.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
alpha-BHC	Lin1		159564940		0.0516	0.0500	3.2	20.0
gamma-BHC (Lindane)	Lin1		142570500		0.0513	0.0500	2.6	20.0
beta-BHC	Lin1		55351040		0.0512	0.0500	2.4	20.0
delta-BHC	Lin1		142601920		0.0505	0.0500	1.0	20.0
Heptachlor	Lin1		136794140		0.0519	0.0500	3.8	20.0
Aldrin	Lin1		131578180		0.0508	0.0500	1.7	20.0
Heptachlor epoxide	Lin1		113803960		0.0521	0.0500	4.1	20.0
gamma-Chlordane	Lin1		118845120		0.0498	0.0500	-0.4	20.0
alpha-Chlordane	Lin1		109476760		0.0491	0.0500	-1.7	20.0
Endosulfan I	Lin1		100588820		0.0516	0.0500	3.1	20.0
4,4'-DDE	Lin1		106554560		0.0500	0.0500	-0.0	20.0
Dieldrin	Lin1		112115400		0.0505	0.0500	0.9	20.0
Endrin	Lin1		99879340		0.0569	0.0500	13.8	20.0
4,4'-DDD	Lin1		84955900		0.0482	0.0500	-3.6	20.0
Endosulfan II	Lin1		90103100		0.0501	0.0500	0.3	20.0
4,4'-DDT	Lin1		84797780		0.0466	0.0500	-6.9	20.0
Endrin aldehyde	Lin1		67885820		0.0493	0.0500	-1.5	20.0
Endosulfan sulfate	Lin1		70243660		0.0441	0.0500	-11.7	20.0
Methoxychlor	Lin1		38188480		0.0473	0.0500	-5.4	20.0
Endrin ketone	Lin1		84613040		0.0466	0.0500	-6.8	20.0
Tetrachloro-m-xylene	Lin1		97310140		0.0525	0.0500	5.0	20.0
DCB Decachlorobiphenyl	Lin1		69035060		0.0491	0.0500	-1.8	20.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1

SDG No.:

Lab Sample ID: CCV 480-181145/4 Calibration Date: 05/09/2014 09:54

Instrument ID: HP6890-5 Calib Start Date: 03/26/2014 13:21

GC Column: RTX-CLPII ID: 0.53(mm) Calib End Date: 03/26/2014 14:32

Lab File ID: 5_10110.D

Analyte	RT	RT WINDOW	
		FROM	TO
alpha-BHC	2.91	2.88	2.94
gamma-BHC (Lindane)	3.22	3.19	3.25
beta-BHC	3.28	3.25	3.31
delta-BHC	3.55	3.52	3.58
Heptachlor	3.63	3.60	3.66
Aldrin	3.95	3.92	3.98
Heptachlor epoxide	4.52	4.49	4.55
gamma-Chlordane	4.72	4.69	4.75
alpha-Chlordane	4.87	4.84	4.90
Endosulfan I	4.92	4.89	4.95
4,4'-DDE	5.05	5.02	5.08
Dieldrin	5.20	5.17	5.23
Endrin	5.50	5.47	5.53
4,4'-DDD	5.63	5.60	5.66
Endosulfan II	5.72	5.69	5.75
4,4'-DDT	5.95	5.92	5.98
Endrin aldehyde	6.05	6.02	6.08
Endosulfan sulfate	6.34	6.31	6.37
Methoxychlor	6.64	6.61	6.67
Endrin ketone	6.86	6.83	6.89
Tetrachloro-m-xylene	2.44	2.41	2.47
DCB Decachlorobiphenyl	8.11	8.08	8.14

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-05\20140509-31941.b\5_10110.D
Lims ID: ccv
Client ID:
Sample Type: CCV
Inject. Date: 09-May-2014 09:54:13 ALS Bottle#: 0 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, CN10520009
Operator ID: buftchrom Instrument ID: HP6890-5
Sublist: chrom-8081-5*sub5

Method: \\Bufchrom\ChromData\HP6890-05\20140509-31941.b\8081-5.m
Limit Group: GC - 8081B ICAL
Last Update: 12-May-2014 12:38:04 Calib Date: 27-Mar-2014 19:29:41
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP6890-05\20140326-30487.b\5__7098.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK027

First Level Reviewer: WolfL Date: 09-May-2014 10:16:43

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
$ 1 Tetrachloro-m-xylene							
1	2.103	2.103	0.000	3466776	0.0500	0.0455	a
2	2.443	2.443	0.000	4865507	0.0500	0.0525	a
						RPD = 14.32	
$ 2 DCB Decachlorobiphenyl							
1	7.117	7.117	0.000	3054241	0.0500	0.0365	a
2	8.113	8.113	0.000	3451753	0.0500	0.0491	a
						RPD = 29.32	
4 alpha-BHC							
1	2.470	2.470	0.000	5739029	0.0500	0.0442	a
2	2.913	2.913	0.000	7978247	0.0500	0.0516	a
						RPD = 15.46	
6 gamma-BHC (Lindane)							
1	2.693	2.693	0.000	5145049	0.0500	0.0444	
2	3.217	3.217	0.000	7128525	0.0500	0.0513	a
						RPD = 14.38	
7 beta-BHC							
1	2.757	2.757	0.000	1982822	0.0500	0.0453	a
2	3.283	3.283	0.000	2767552	0.0500	0.0512	a
						RPD = 12.31	
8 delta-BHC							
1	2.890	2.890	0.000	5220303	0.0500	0.0445	a
2	3.553	3.553	0.000	7130096	0.0500	0.0505	a
						RPD = 12.71	
9 Heptachlor							
1	3.053	3.053	0.000	4371993	0.0500	0.0461	a
2	3.633	3.633	0.000	6839707	0.0500	0.0519	a
						RPD = 11.93	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
10 Aldrin							
1	3.300	3.300	0.000	4567344	0.0500	0.0513	a
2	3.947	3.947	0.000	6578909	0.0500	0.0508	a
						RPD = 0.94	
13 Heptachlor epoxide							
1	3.840	3.840	0.000	4311165	0.0500	0.0495	a
2	4.520	4.520	0.000	5690198	0.0500	0.0521	a
						RPD = 4.98	
14 gamma-Chlordane							
1	3.960	3.960	0.000	4819756	0.0500	0.0465	a
2	4.717	4.717	0.000	5942256	0.0500	0.0498	a
						RPD = 6.96	
15 alpha-Chlordane							
1	4.090	4.090	0.000	4588682	0.0500	0.0457	a
2	4.867	4.867	0.000	5473838	0.0500	0.0491	a
						RPD = 7.29	
16 4,4'-DDE							
1	4.187	4.187	0.000	4309810	0.0500	0.0443	a
2	5.047	5.047	0.000	5327728	0.0500	0.0500	a
						RPD = 12.00	
18 Endosulfan I							
1	4.220	4.220	0.000	3898877	0.0500	0.0460	a
2	4.920	4.920	0.000	5029441	0.0500	0.0516	a
						RPD = 11.36	
19 Dieldrin							
1	4.460	4.460	0.000	4075350	0.0500	0.0457	a
2	5.200	5.200	0.000	5605770	0.0500	0.0505	a
						RPD = 9.85	
20 Endrin							
1	4.693	4.693	0.000	3895591	0.0500	0.0545	a
2	5.503	5.503	0.000	4993967	0.0500	0.0569	a
						RPD = 4.31	
22 4,4'-DDD							
1	4.793	4.793	0.000	3546107	0.0500	0.0505	a
2	5.633	5.633	0.000	4247795	0.0500	0.0482	a
						RPD = 4.54	
23 Endosulfan II							
1	4.920	4.920	0.000	3779789	0.0500	0.0537	a
2	5.717	5.717	0.000	4505155	0.0500	0.0501	a
						RPD = 6.79	
26 4,4'-DDT							
1	5.080	5.080	0.000	4297788	0.0500	0.0550	a
2	5.953	5.953	0.000	4239889	0.0500	0.0466	a
						RPD = 16.70	
28 Endrin aldehyde							
1	5.350	5.350	0.000	3019567	0.0500	0.0444	a
2	6.053	6.053	0.000	3394291	0.0500	0.0493	a
						RPD = 10.44	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
29 Methoxychlor							
1	5.600	5.600	0.000	2183114	0.0500	0.0515	a
2	6.640	6.640	0.000	1909424	0.0500	0.0473	a
						RPD = 8.46	
30 Endosulfan sulfate							
1	5.790	5.790	0.000	3839233	0.0500	0.0435	a
2	6.337	6.337	0.000	3512183	0.0500	0.0441	a
						RPD = 1.37	
31 Endrin ketone							
1	6.067	6.067	0.000	4662813	0.0500	0.0451	a
2	6.860	6.860	0.000	4230652	0.0500	0.0466	a
						RPD = 3.24	
S 35 BHC, Total							
1						0.1783	
2						0.2046	
						RPD = 13.72	

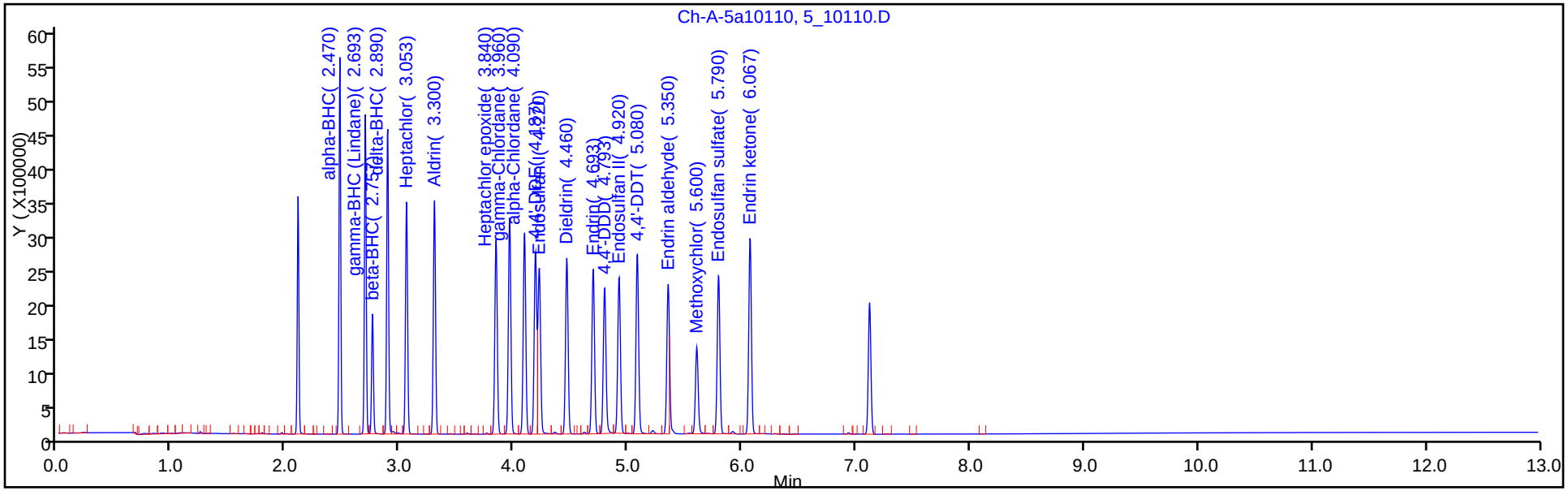
Report Date: 12-May-2014 12:38:06 Chrom Revision: 2.2 14-Apr-2014 13:40:08

TestAmerica Buffalo

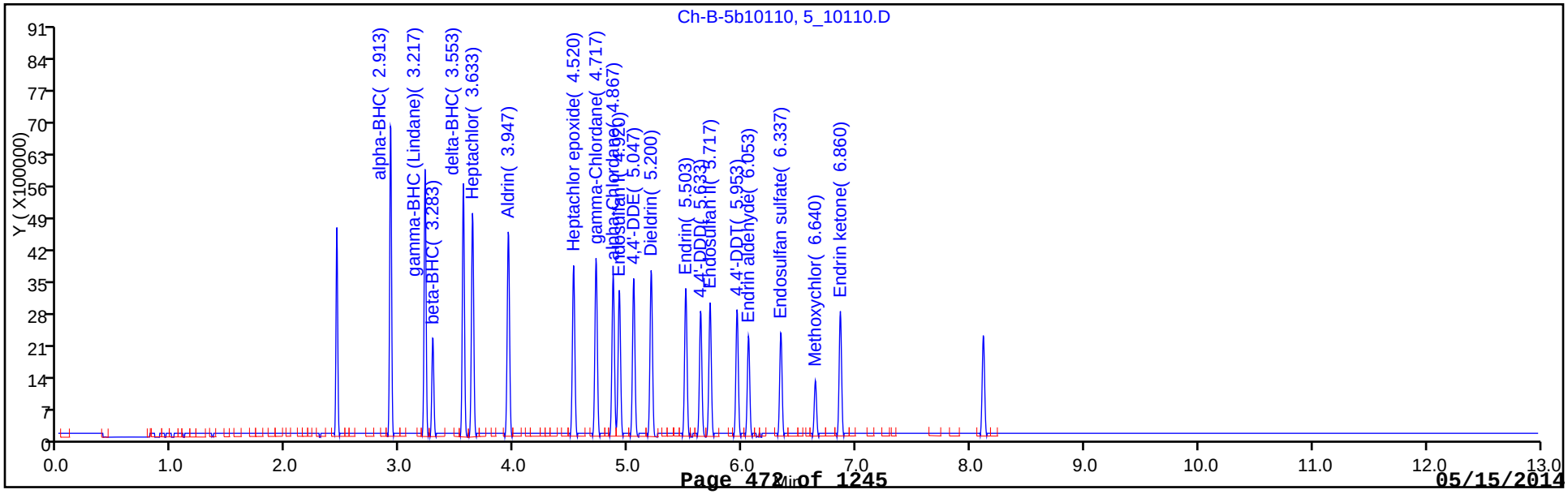
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Injection Date:	09-May-2014 09:54:13	Instrument ID:	HP6890-5	Operator ID:	buftchrom
Lims ID:	ccv			Worklist Smp#:	4
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8081-5	Limit Group:	GC - 8081B ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1

SDG No.:

Lab Sample ID: CCV 480-181145/15 Calibration Date: 05/09/2014 13:17

Instrument ID: HP6890-5 Calib Start Date: 03/27/2014 18:19

GC Column: RTX-CLPI ID: 0.53(mm) Calib End Date: 03/27/2014 19:29

Lab File ID: 5_10121.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chlordane (technical) Peak 1	Lin1		3726006		0.651	0.500	30.1*	20.0
Chlordane (technical) Peak 2	Lin1		2108994		0.517	0.500	3.5	20.0
Chlordane (technical) Peak 3	Lin1		13290634		0.490	0.500	-2.0	20.0
Chlordane (technical) Peak 4	Lin1		20399184		0.447	0.500	-10.5	20.0
Chlordane (technical) Peak 5	Lin1		3875138		0.583	0.500	16.7	20.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1

SDG No.:

Lab Sample ID: CCV 480-181145/15 Calibration Date: 05/09/2014 13:17

Instrument ID: HP6890-5 Calib Start Date: 03/27/2014 18:19

GC Column: RTX-CLPI ID: 0.53(mm) Calib End Date: 03/27/2014 19:29

Lab File ID: 5_10121.D

Analyte	RT	RT WINDOW	
		FROM	TO
Chlordane (technical) Peak 1	3.42	3.39	3.45
Chlordane (technical) Peak 2	3.79	3.76	3.82
Chlordane (technical) Peak 3	3.96	3.93	3.99
Chlordane (technical) Peak 4	4.09	4.06	4.12
Chlordane (technical) Peak 5	4.86	4.83	4.89

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-05\20140509-31941.b\5_10121.D
Lims ID: ccv
Client ID:
Sample Type: CCV
Inject. Date: 09-May-2014 13:17:53 ALS Bottle#: 0 Worklist Smp#: 15
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, CN10520009
Operator ID: buftchrom Instrument ID: HP6890-5
Sublist: chrom-8081-5*sub6

Method: \\Bufchrom\ChromData\HP6890-05\20140509-31941.b\8081-5.m
Limit Group: GC - 8081B ICAL
Last Update: 12-May-2014 12:38:23 Calib Date: 27-Mar-2014 19:29:41
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP6890-05\20140326-30487.b\5__7098.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK027

First Level Reviewer: WolfL Date: 12-May-2014 12:18:09

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
11 Chlordane (technical)							
1	3.423	3.423	0.000	1863003	0.5000	0.6507	
1	3.787	3.787	0.000	1054497	0.5000	0.5174	
1	3.963	3.963	0.000	6645317	0.5000	0.4901	
1	4.087	4.087	0.000	10199592	0.5000	0.4473	
1	4.857	4.857	0.000	1937569	0.5000	0.5834	
		Average of Peak Amounts =				0.5378	
2	4.097	4.097	0.000	2306640	0.5000	0.6283	
2	4.490	4.490	0.000	1574058	0.5000	0.4718	
2	4.723	4.723	0.000	7637818	0.5000	0.5123	
2	4.873	4.873	0.000	6075064	0.5000	0.5603	
2	5.777	5.777	0.000	2071840	0.5000	0.5647	
		Average of Peak Amounts =				0.5475	
						RPD = 1.78	

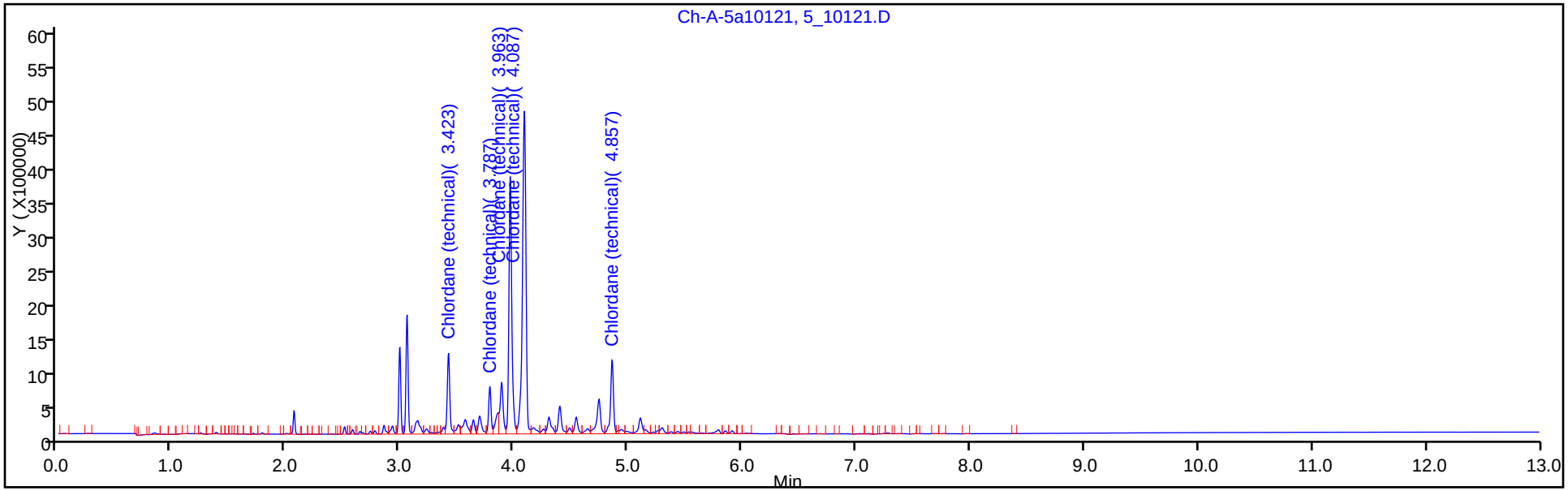
Report Date: 12-May-2014 12:38:23 Chrom Revision: 2.2 14-Apr-2014 13:40:08

TestAmerica Buffalo

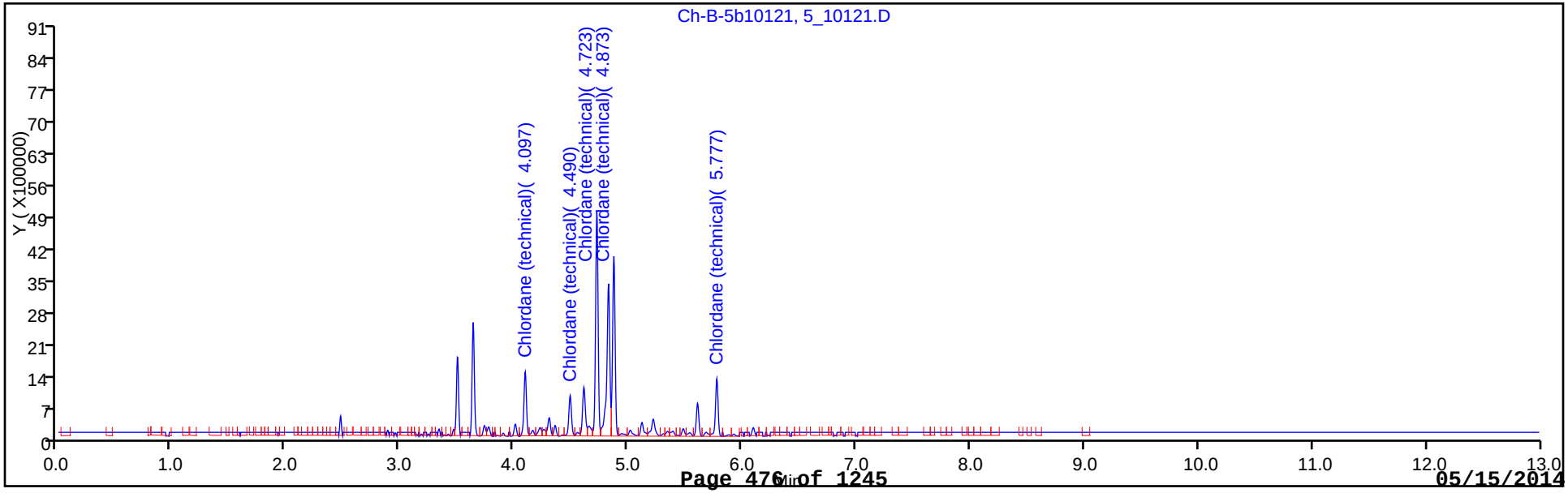
Data File: \\Bufchrom\ChromData\HP6890-05\20140509-31941.b\5_10121.D

Injection Date:	09-May-2014 13:17:53	Instrument ID:	HP6890-5	Operator ID:	buftchrom
Lims ID:	ccv			Worklist Smp#:	15
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8081-5	Limit Group:	GC - 8081B ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1

SDG No.:

Lab Sample ID: CCV 480-181145/15 Calibration Date: 05/09/2014 13:17

Instrument ID: HP6890-5 Calib Start Date: 03/27/2014 18:19

GC Column: RTX-CLPII ID: 0.53(mm) Calib End Date: 03/27/2014 19:29

Lab File ID: 5_10121.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chlordane (technical) Peak 1	Lin1		4613280		0.628	0.500	25.7*	20.0
Chlordane (technical) Peak 2	Lin1		3148116		0.472	0.500	-5.6	20.0
Chlordane (technical) Peak 3	Lin1		15275636		0.512	0.500	2.5	20.0
Chlordane (technical) Peak 4	Lin1		12150128		0.560	0.500	12.1	20.0
Chlordane (technical) Peak 5	Lin1		4143680		0.565	0.500	12.9	20.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1

SDG No.:

Lab Sample ID: CCV 480-181145/15 Calibration Date: 05/09/2014 13:17

Instrument ID: HP6890-5 Calib Start Date: 03/27/2014 18:19

GC Column: RTX-CLPII ID: 0.53(mm) Calib End Date: 03/27/2014 19:29

Lab File ID: 5_10121.D

Analyte	RT	RT WINDOW	
		FROM	TO
Chlordane (technical) Peak 1	4.10	4.07	4.13
Chlordane (technical) Peak 2	4.49	4.46	4.52
Chlordane (technical) Peak 3	4.72	4.69	4.75
Chlordane (technical) Peak 4	4.87	4.84	4.90
Chlordane (technical) Peak 5	5.78	5.75	5.81

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-05\20140509-31941.b\5_10121.D
Lims ID: ccv
Client ID:
Sample Type: CCV
Inject. Date: 09-May-2014 13:17:53 ALS Bottle#: 0 Worklist Smp#: 15
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, CN10520009
Operator ID: buftchrom Instrument ID: HP6890-5
Sublist: chrom-8081-5*sub6

Method: \\Bufchrom\ChromData\HP6890-05\20140509-31941.b\8081-5.m
Limit Group: GC - 8081B ICAL
Last Update: 12-May-2014 12:38:23 Calib Date: 27-Mar-2014 19:29:41
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP6890-05\20140326-30487.b\5__7098.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK027

First Level Reviewer: WolfL Date: 12-May-2014 12:18:09

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
11 Chlordane (technical)							
1	3.423	3.423	0.000	1863003	0.5000	0.6507	
1	3.787	3.787	0.000	1054497	0.5000	0.5174	
1	3.963	3.963	0.000	6645317	0.5000	0.4901	
1	4.087	4.087	0.000	10199592	0.5000	0.4473	
1	4.857	4.857	0.000	1937569	0.5000	0.5834	
		Average of Peak Amounts =				0.5378	
2	4.097	4.097	0.000	2306640	0.5000	0.6283	
2	4.490	4.490	0.000	1574058	0.5000	0.4718	
2	4.723	4.723	0.000	7637818	0.5000	0.5123	
2	4.873	4.873	0.000	6075064	0.5000	0.5603	
2	5.777	5.777	0.000	2071840	0.5000	0.5647	
		Average of Peak Amounts =				0.5475	
						RPD = 1.78	

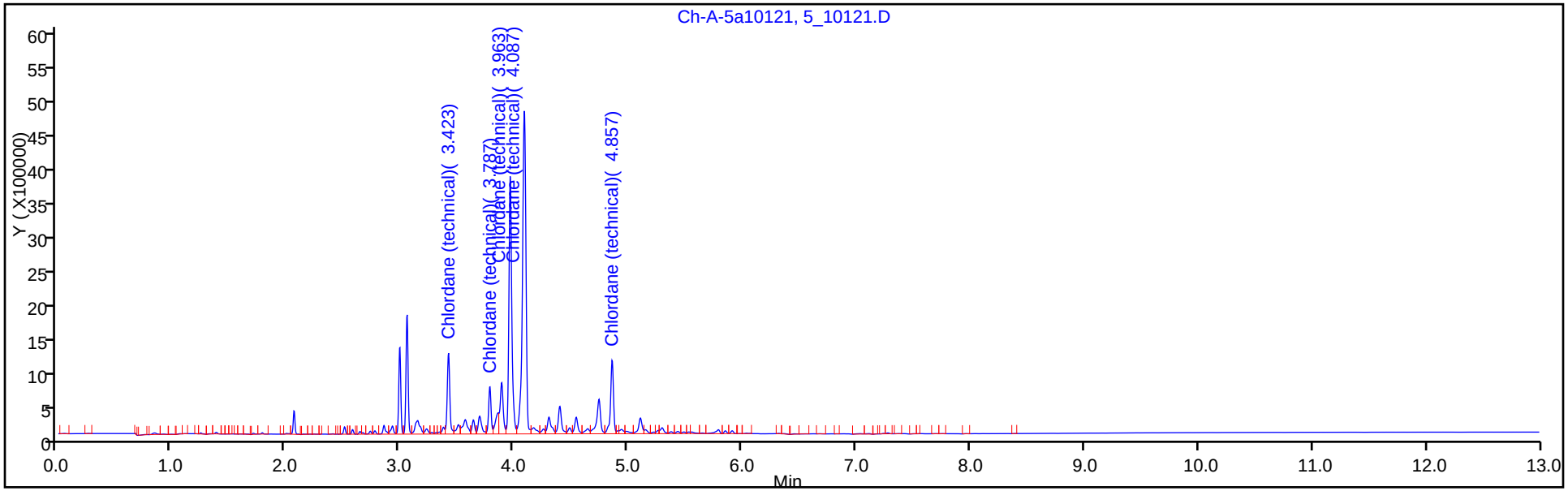
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TestAmerica Buffalo

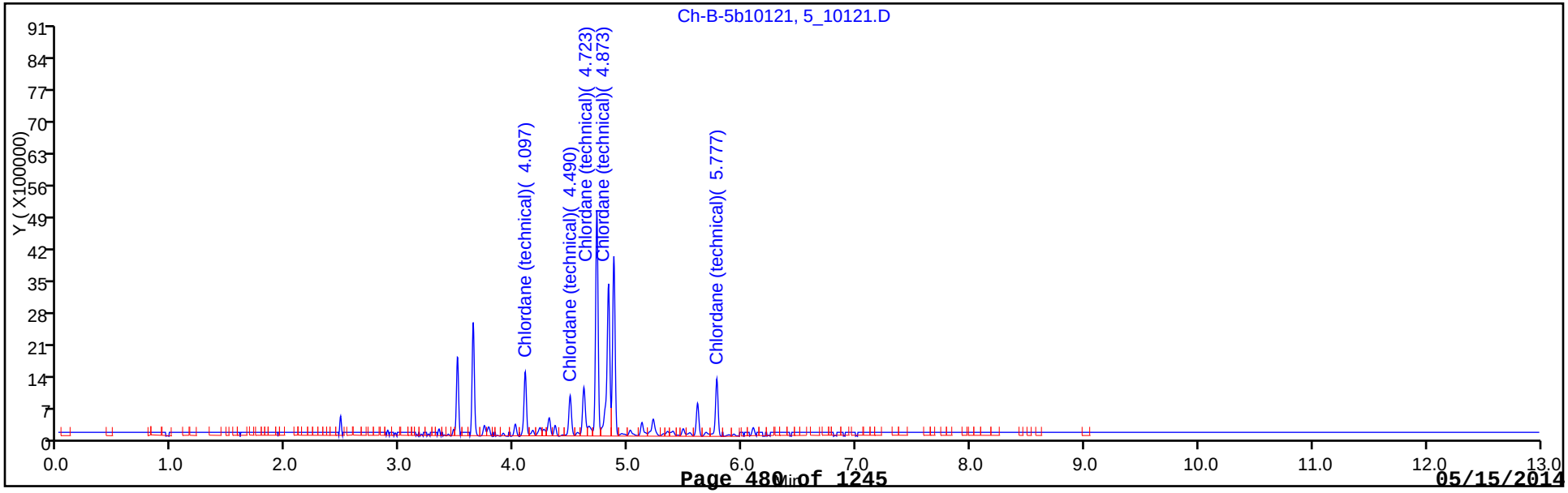
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Injection Date:	09-May-2014 13:17:53	Instrument ID:	HP6890-5	Operator ID:	buftchrom
Lims ID:	ccv			Worklist Smp#:	15
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8081-5	Limit Group:	GC - 8081B ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1

SDG No.:

Lab Sample ID: CCV 480-181145/16 Calibration Date: 05/09/2014 13:35

Instrument ID: HP6890-5 Calib Start Date: 03/26/2014 13:21

GC Column: RTX-CLPI ID: 0.53(mm) Calib End Date: 03/26/2014 14:32

Lab File ID: 5_10122.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
alpha-BHC	Lin1		116115020		0.0447	0.0500	-10.6	20.0
gamma-BHC (Lindane)	Lin1		104031160		0.0449	0.0500	-10.2	20.0
beta-BHC	Lin1		40127480		0.0458	0.0500	-8.4	20.0
delta-BHC	Lin1		105613300		0.0449	0.0500	-10.1	20.0
Heptachlor	Lin1		88125220		0.0464	0.0500	-7.2	20.0
Aldrin	Lin1		91746580		0.0515	0.0500	3.1	20.0
Heptachlor epoxide	Lin1		86524680		0.0497	0.0500	-0.6	20.0
gamma-Chlordane	Lin1		97531440		0.0470	0.0500	-6.0	20.0
alpha-Chlordane	Lin1		91915760		0.0458	0.0500	-8.5	20.0
4,4'-DDE	Lin1		81488080		0.0420	0.0500	-16.0	20.0
Endosulfan I	Lin1		82283440		0.0486	0.0500	-2.9	20.0
Dieldrin	Lin1		81523480		0.0457	0.0500	-8.5	20.0
Endrin	Lin1		77424400		0.0541	0.0500	8.3	20.0
4,4'-DDD	Lin1		71187900		0.0506	0.0500	1.3	20.0
Endosulfan II	Lin1		75344280		0.0535	0.0500	7.0	20.0
4,4'-DDT	Lin1		84959040		0.0544	0.0500	8.8	20.0
Endrin aldehyde	Lin1		75045220		0.0553	0.0500	10.6	20.0
Methoxychlor	Lin1		43519840		0.0513	0.0500	2.6	20.0
Endosulfan sulfate	Lin1		80054740		0.0454	0.0500	-9.2	20.0
Endrin ketone	Lin1		94351220		0.0456	0.0500	-8.7	20.0
Tetrachloro-m-xylene	Lin1		70260920		0.0461	0.0500	-7.8	20.0
DCB Decachlorobiphenyl	Lin1		74464040		0.0443	0.0500	-11.3	20.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1

SDG No.:

Lab Sample ID: CCV 480-181145/16 Calibration Date: 05/09/2014 13:35

Instrument ID: HP6890-5 Calib Start Date: 03/26/2014 13:21

GC Column: RTX-CLPI ID: 0.53(mm) Calib End Date: 03/26/2014 14:32

Lab File ID: 5_10122.D

Analyte	RT	RT WINDOW	
		FROM	TO
alpha-BHC	2.47	2.44	2.50
gamma-BHC (Lindane)	2.70	2.66	2.72
beta-BHC	2.76	2.73	2.79
delta-BHC	2.89	2.86	2.92
Heptachlor	3.06	3.02	3.08
Aldrin	3.30	3.27	3.33
Heptachlor epoxide	3.85	3.81	3.87
gamma-Chlordane	3.96	3.93	3.99
alpha-Chlordane	4.10	4.06	4.12
4,4'-DDE	4.19	4.16	4.22
Endosulfan I	4.22	4.19	4.25
Dieldrin	4.47	4.43	4.49
Endrin	4.70	4.66	4.72
4,4'-DDD	4.80	4.76	4.82
Endosulfan II	4.92	4.89	4.95
4,4'-DDT	5.08	5.05	5.11
Endrin aldehyde	5.36	5.32	5.38
Methoxychlor	5.61	5.57	5.63
Endosulfan sulfate	5.80	5.76	5.82
Endrin ketone	6.07	6.04	6.10
Tetrachloro-m-xylene	2.11	2.07	2.13
DCB Decachlorobiphenyl	7.12	7.09	7.15

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-05\20140509-31941.b\5_10122.D
Lims ID: ccv
Client ID:
Sample Type: CCV
Inject. Date: 09-May-2014 13:35:21 ALS Bottle#: 0 Worklist Smp#: 16
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, CN10520009
Operator ID: buftchrom Instrument ID: HP6890-5
Sublist: chrom-8081-5*sub5

Method: \\Bufchrom\ChromData\HP6890-05\20140509-31941.b\8081-5.m
Limit Group: GC - 8081B ICAL
Last Update: 12-May-2014 12:38:27 Calib Date: 27-Mar-2014 19:29:41
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP6890-05\20140326-30487.b\5__7098.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK027

First Level Reviewer: WolfL Date: 09-May-2014 14:00:52

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
$ 1 Tetrachloro-m-xylene							
1	2.107	2.103	0.004	3513046	0.0500	0.0461	
2	2.447	2.443	0.004	5062513	0.0500	0.0546	
						RPD = 16.94	
$ 2 DCB Decachlorobiphenyl							
1	7.123	7.117	0.006	3723202	0.0500	0.0443	
2	8.120	8.113	0.007	3458191	0.0500	0.0492	
						RPD = 10.35	
4 alpha-BHC							M
1	2.473	2.470	0.003	5805751	0.0500	0.0447	
2	2.920	2.913	0.007	8209145	0.0500	0.0531	M
						RPD = 17.13	
6 gamma-BHC (Lindane)							
1	2.697	2.693	0.004	5201558	0.0500	0.0449	
2	3.223	3.217	0.006	7414601	0.0500	0.0533	
						RPD = 17.17	
7 beta-BHC							
1	2.760	2.757	0.003	2006374	0.0500	0.0458	
2	3.290	3.283	0.007	2877899	0.0500	0.0533	
						RPD = 15.03	
8 delta-BHC							
1	2.893	2.890	0.003	5280665	0.0500	0.0449	
2	3.560	3.553	0.007	7409650	0.0500	0.0524	
						RPD = 15.37	
9 Heptachlor							
1	3.060	3.053	0.007	4406261	0.0500	0.0464	
2	3.640	3.633	0.007	7088890	0.0500	0.0538	
						RPD = 14.70	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
10 Aldrin							
1	3.303	3.300	0.003	4587329	0.0500	0.0515	
2	3.953	3.947	0.006	6823151	0.0500	0.0527	
						RPD = 2.23	
13 Heptachlor epoxide							
1	3.847	3.840	0.007	4326234	0.0500	0.0497	
2	4.527	4.520	0.007	5880289	0.0500	0.0538	
						RPD = 7.90	
14 gamma-Chlordane							
1	3.963	3.960	0.003	4876572	0.0500	0.0470	
2	4.723	4.717	0.006	6196334	0.0500	0.0519	
						RPD = 9.92	
15 alpha-Chlordane							
1	4.097	4.090	0.007	4595788	0.0500	0.0458	
2	4.873	4.867	0.006	5726316	0.0500	0.0514	
						RPD = 11.58	
16 4,4'-DDE							
1	4.190	4.187	0.003	4074404	0.0500	0.0420	
2	5.053	5.047	0.006	5519521	0.0500	0.0517	
						RPD = 20.83	
18 Endosulfan I							
1	4.223	4.220	0.003	4114172	0.0500	0.0486	
2	4.927	4.920	0.007	5186099	0.0500	0.0532	
						RPD = 9.00	
19 Dieldrin							
1	4.467	4.460	0.007	4076174	0.0500	0.0457	
2	5.207	5.200	0.007	5808849	0.0500	0.0523	
						RPD = 13.33	
20 Endrin							
1	4.697	4.693	0.004	3871220	0.0500	0.0541	
2	5.510	5.503	0.007	5146877	0.0500	0.0586	
						RPD = 7.90	
22 4,4'-DDD							
1	4.797	4.793	0.004	3559395	0.0500	0.0506	
2	5.640	5.633	0.007	4410764	0.0500	0.0500	
						RPD = 1.21	
23 Endosulfan II							
1	4.923	4.920	0.003	3767214	0.0500	0.0535	
2	5.723	5.717	0.006	4629535	0.0500	0.0515	
						RPD = 3.76	
26 4,4'-DDT							
1	5.083	5.080	0.003	4247952	0.0500	0.0544	
2	5.960	5.953	0.007	4352857	0.0500	0.0478	
						RPD = 13.02	
28 Endrin aldehyde							
1	5.357	5.350	0.007	3752261	0.0500	0.0553	
2	6.060	6.053	0.007	3499283	0.0500	0.0508	
						RPD = 8.49	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
29 Methoxychlor							
1	5.607	5.600	0.007	2175992	0.0500	0.0513	
2	6.647	6.640	0.007	1950038	0.0500	0.0483	
						RPD = 6.06	
30 Endosulfan sulfate							
1	5.797	5.790	0.007	4002737	0.0500	0.0454	
2	6.343	6.337	0.006	3835085	0.0500	0.0481	
						RPD = 5.82	
31 Endrin ketone							
1	6.073	6.067	0.006	4717561	0.0500	0.0456	
2	6.867	6.860	0.007	4378117	0.0500	0.0482	
						RPD = 5.44	
S 35 BHC, Total							
1						0.1803	
2						0.2121	
						RPD = 16.17	

QC Flag Legend

Review Flags
M - Manually Integrated

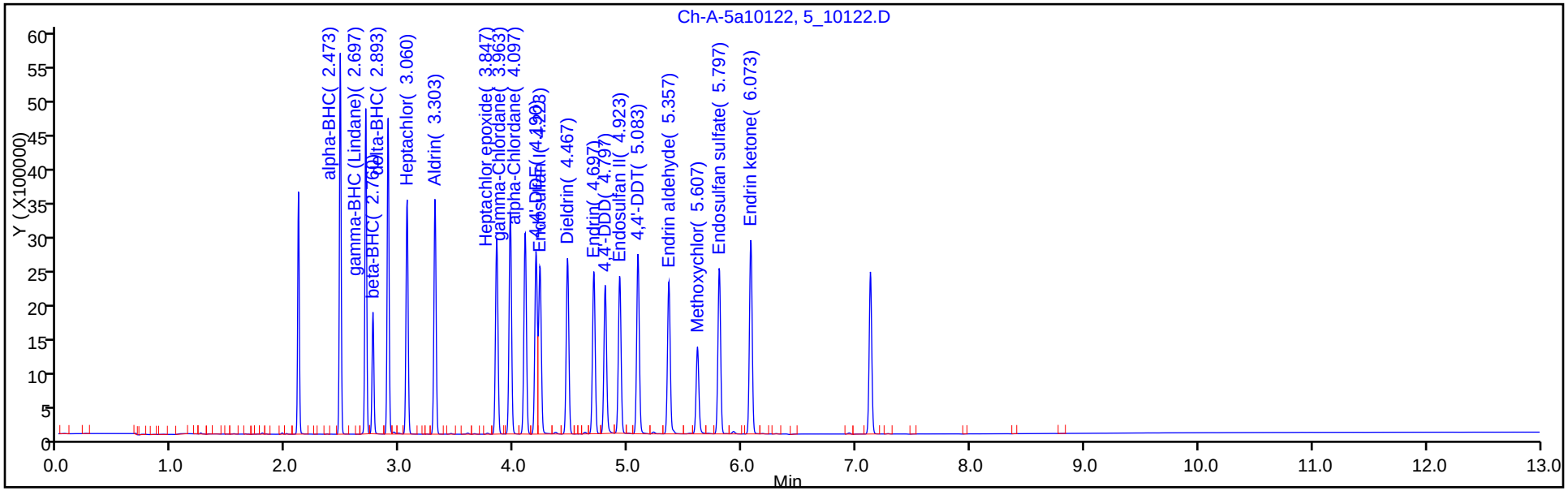
Report Date: 12-May-2014 12:38:27 Chrom Revision: 2.2 14-Apr-2014 13:40:08

TestAmerica Buffalo

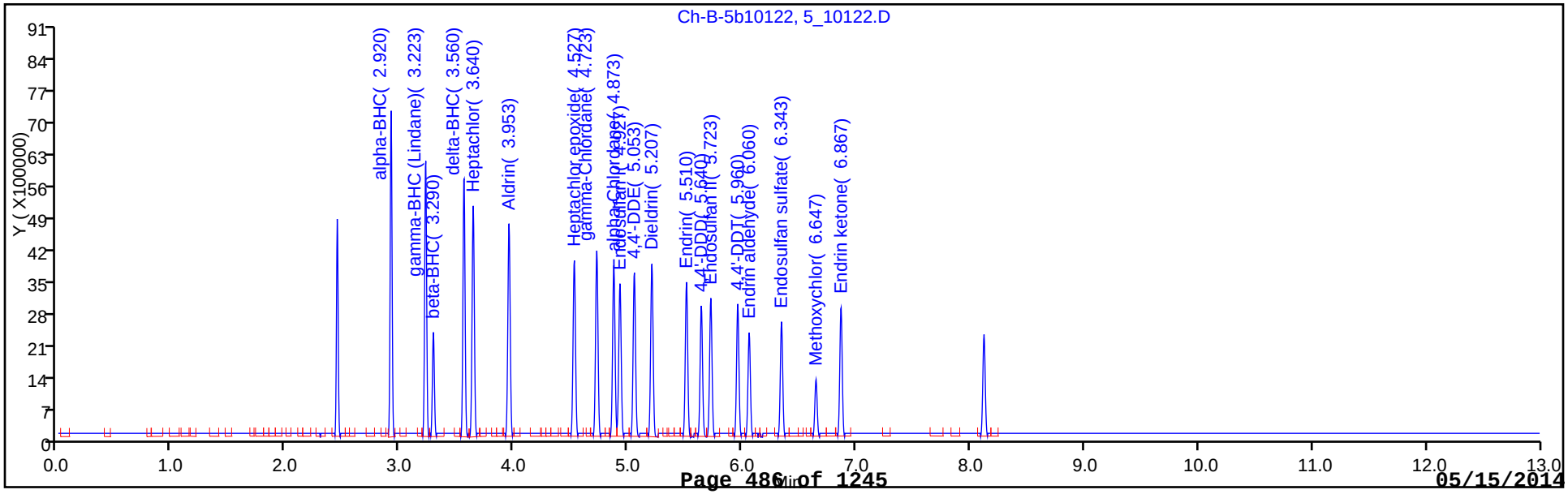
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Injection Date:	09-May-2014 13:35:21	Instrument ID:	HP6890-5	Operator ID:	buftchrom
Lims ID:	ccv			Worklist Smp#:	16
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8081-5	Limit Group:	GC - 8081B ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1

SDG No.:

Lab Sample ID: CCV 480-181145/16 Calibration Date: 05/09/2014 13:35

Instrument ID: HP6890-5 Calib Start Date: 03/26/2014 13:21

GC Column: RTX-CLPII ID: 0.53(mm) Calib End Date: 03/26/2014 14:32

Lab File ID: 5_10122.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
alpha-BHC	Lin1		164182900		0.0531	0.0500	6.1	20.0
gamma-BHC (Lindane)	Lin1		148292020		0.0533	0.0500	6.6	20.0
beta-BHC	Lin1		57557980		0.0533	0.0500	6.5	20.0
delta-BHC	Lin1		148193000		0.0524	0.0500	4.9	20.0
Heptachlor	Lin1		141777800		0.0538	0.0500	7.6	20.0
Aldrin	Lin1		136463020		0.0527	0.0500	5.4	20.0
Heptachlor epoxide	Lin1		117605780		0.0538	0.0500	7.6	20.0
gamma-Chlordane	Lin1		123926680		0.0519	0.0500	3.8	20.0
alpha-Chlordane	Lin1		114526320		0.0514	0.0500	2.8	20.0
Endosulfan I	Lin1		103721980		0.0532	0.0500	6.3	20.0
4,4'-DDE	Lin1		110390420		0.0517	0.0500	3.5	20.0
Dieldrin	Lin1		116176980		0.0523	0.0500	4.5	20.0
Endrin	Lin1		102937540		0.0586	0.0500	17.2	20.0
4,4'-DDD	Lin1		88215280		0.0500	0.0500	0.0	20.0
Endosulfan II	Lin1		92590700		0.0515	0.0500	3.0	20.0
4,4'-DDT	Lin1		87057140		0.0478	0.0500	-4.5	20.0
Endrin aldehyde	Lin1		69985660		0.0508	0.0500	1.6	20.0
Endosulfan sulfate	Lin1		76701700		0.0481	0.0500	-3.7	20.0
Methoxychlor	Lin1		39000760		0.0483	0.0500	-3.4	20.0
Endrin ketone	Lin1		87562340		0.0482	0.0500	-3.6	20.0
Tetrachloro-m-xylene	Lin1		101250260		0.0546	0.0500	9.2	20.0
DCB Decachlorobiphenyl	Lin1		69163820		0.0492	0.0500	-1.6	20.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1

SDG No.:

Lab Sample ID: CCV 480-181145/16 Calibration Date: 05/09/2014 13:35

Instrument ID: HP6890-5 Calib Start Date: 03/26/2014 13:21

GC Column: RTX-CLPII ID: 0.53(mm) Calib End Date: 03/26/2014 14:32

Lab File ID: 5_10122.D

Analyte	RT	RT WINDOW	
		FROM	TO
alpha-BHC	2.92	2.88	2.94
gamma-BHC (Lindane)	3.22	3.19	3.25
beta-BHC	3.29	3.25	3.31
delta-BHC	3.56	3.52	3.58
Heptachlor	3.64	3.60	3.66
Aldrin	3.95	3.92	3.98
Heptachlor epoxide	4.53	4.49	4.55
gamma-Chlordane	4.72	4.69	4.75
alpha-Chlordane	4.87	4.84	4.90
Endosulfan I	4.93	4.89	4.95
4,4'-DDE	5.05	5.02	5.08
Dieldrin	5.21	5.17	5.23
Endrin	5.51	5.47	5.53
4,4'-DDD	5.64	5.60	5.66
Endosulfan II	5.72	5.69	5.75
4,4'-DDT	5.96	5.92	5.98
Endrin aldehyde	6.06	6.02	6.08
Endosulfan sulfate	6.34	6.31	6.37
Methoxychlor	6.65	6.61	6.67
Endrin ketone	6.87	6.83	6.89
Tetrachloro-m-xylene	2.45	2.41	2.47
DCB Decachlorobiphenyl	8.12	8.08	8.14

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-05\20140509-31941.b\5_10122.D
Lims ID: ccv
Client ID:
Sample Type: CCV
Inject. Date: 09-May-2014 13:35:21 ALS Bottle#: 0 Worklist Smp#: 16
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, CN10520009
Operator ID: buftchrom Instrument ID: HP6890-5
Sublist: chrom-8081-5*sub5

Method: \\Bufchrom\ChromData\HP6890-05\20140509-31941.b\8081-5.m
Limit Group: GC - 8081B ICAL
Last Update: 12-May-2014 12:38:27 Calib Date: 27-Mar-2014 19:29:41
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP6890-05\20140326-30487.b\5__7098.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK027

First Level Reviewer: WolfL Date: 09-May-2014 14:00:52

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
$ 1 Tetrachloro-m-xylene							
1	2.107	2.103	0.004	3513046	0.0500	0.0461	
2	2.447	2.443	0.004	5062513	0.0500	0.0546	
						RPD = 16.94	
$ 2 DCB Decachlorobiphenyl							
1	7.123	7.117	0.006	3723202	0.0500	0.0443	
2	8.120	8.113	0.007	3458191	0.0500	0.0492	
						RPD = 10.35	
4 alpha-BHC							M
1	2.473	2.470	0.003	5805751	0.0500	0.0447	
2	2.920	2.913	0.007	8209145	0.0500	0.0531	M
						RPD = 17.13	
6 gamma-BHC (Lindane)							
1	2.697	2.693	0.004	5201558	0.0500	0.0449	
2	3.223	3.217	0.006	7414601	0.0500	0.0533	
						RPD = 17.17	
7 beta-BHC							
1	2.760	2.757	0.003	2006374	0.0500	0.0458	
2	3.290	3.283	0.007	2877899	0.0500	0.0533	
						RPD = 15.03	
8 delta-BHC							
1	2.893	2.890	0.003	5280665	0.0500	0.0449	
2	3.560	3.553	0.007	7409650	0.0500	0.0524	
						RPD = 15.37	
9 Heptachlor							
1	3.060	3.053	0.007	4406261	0.0500	0.0464	
2	3.640	3.633	0.007	7088890	0.0500	0.0538	
						RPD = 14.70	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
10 Aldrin							
1	3.303	3.300	0.003	4587329	0.0500	0.0515	
2	3.953	3.947	0.006	6823151	0.0500	0.0527	
						RPD = 2.23	
13 Heptachlor epoxide							
1	3.847	3.840	0.007	4326234	0.0500	0.0497	
2	4.527	4.520	0.007	5880289	0.0500	0.0538	
						RPD = 7.90	
14 gamma-Chlordane							
1	3.963	3.960	0.003	4876572	0.0500	0.0470	
2	4.723	4.717	0.006	6196334	0.0500	0.0519	
						RPD = 9.92	
15 alpha-Chlordane							
1	4.097	4.090	0.007	4595788	0.0500	0.0458	
2	4.873	4.867	0.006	5726316	0.0500	0.0514	
						RPD = 11.58	
16 4,4'-DDE							
1	4.190	4.187	0.003	4074404	0.0500	0.0420	
2	5.053	5.047	0.006	5519521	0.0500	0.0517	
						RPD = 20.83	
18 Endosulfan I							
1	4.223	4.220	0.003	4114172	0.0500	0.0486	
2	4.927	4.920	0.007	5186099	0.0500	0.0532	
						RPD = 9.00	
19 Dieldrin							
1	4.467	4.460	0.007	4076174	0.0500	0.0457	
2	5.207	5.200	0.007	5808849	0.0500	0.0523	
						RPD = 13.33	
20 Endrin							
1	4.697	4.693	0.004	3871220	0.0500	0.0541	
2	5.510	5.503	0.007	5146877	0.0500	0.0586	
						RPD = 7.90	
22 4,4'-DDD							
1	4.797	4.793	0.004	3559395	0.0500	0.0506	
2	5.640	5.633	0.007	4410764	0.0500	0.0500	
						RPD = 1.21	
23 Endosulfan II							
1	4.923	4.920	0.003	3767214	0.0500	0.0535	
2	5.723	5.717	0.006	4629535	0.0500	0.0515	
						RPD = 3.76	
26 4,4'-DDT							
1	5.083	5.080	0.003	4247952	0.0500	0.0544	
2	5.960	5.953	0.007	4352857	0.0500	0.0478	
						RPD = 13.02	
28 Endrin aldehyde							
1	5.357	5.350	0.007	3752261	0.0500	0.0553	
2	6.060	6.053	0.007	3499283	0.0500	0.0508	
						RPD = 8.49	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
29 Methoxychlor							
1	5.607	5.600	0.007	2175992	0.0500	0.0513	
2	6.647	6.640	0.007	1950038	0.0500	0.0483	
						RPD = 6.06	
30 Endosulfan sulfate							
1	5.797	5.790	0.007	4002737	0.0500	0.0454	
2	6.343	6.337	0.006	3835085	0.0500	0.0481	
						RPD = 5.82	
31 Endrin ketone							
1	6.073	6.067	0.006	4717561	0.0500	0.0456	
2	6.867	6.860	0.007	4378117	0.0500	0.0482	
						RPD = 5.44	
S 35 BHC, Total							
1						0.1803	
2						0.2121	
						RPD = 16.17	

QC Flag Legend

Review Flags
M - Manually Integrated

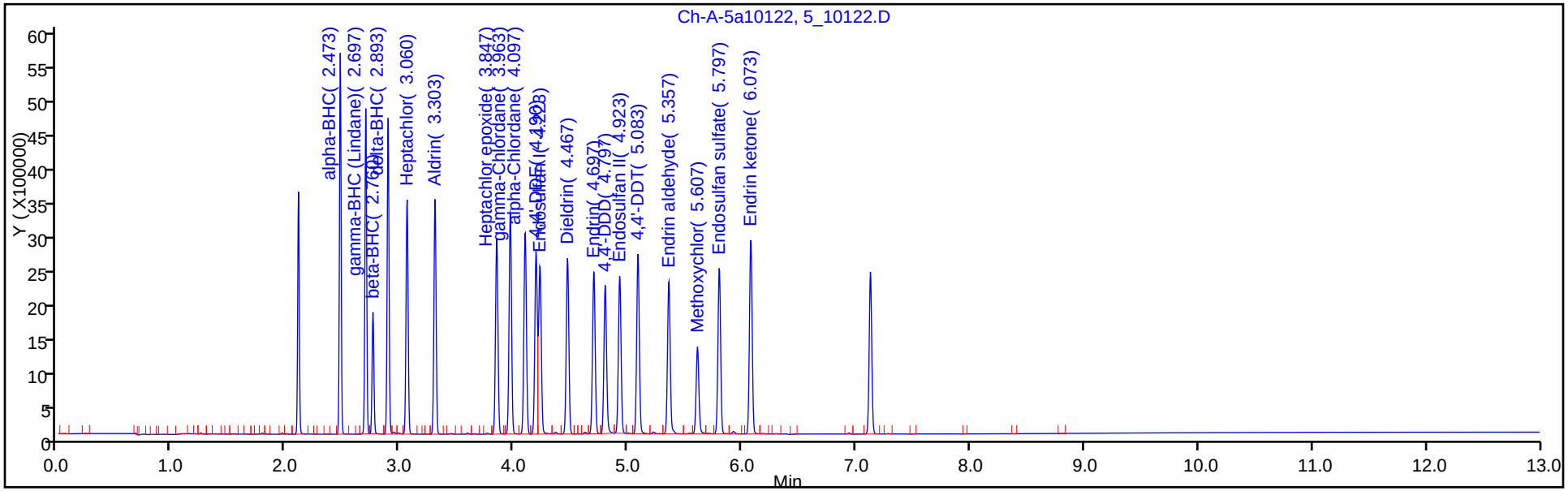
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TestAmerica Buffalo

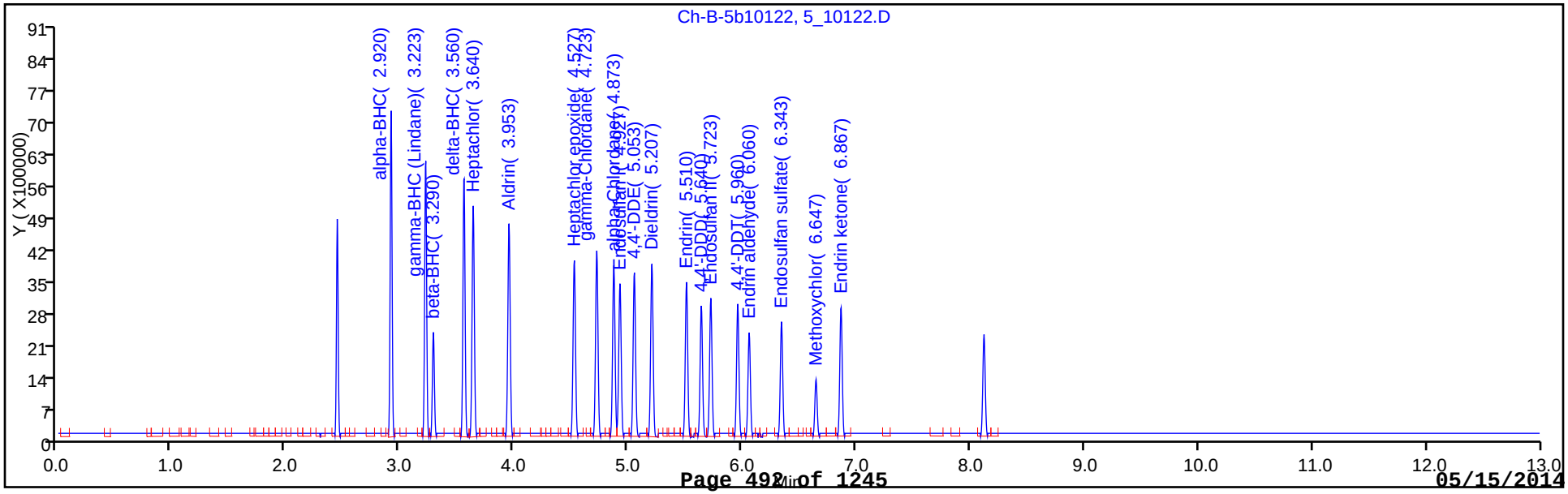
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Injection Date:	09-May-2014 13:35:21	Instrument ID:	HP6890-5	Operator ID:	buftchrom
Lims ID:	ccv			Worklist Smp#:	16
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8081-5	Limit Group:	GC - 8081B ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



Manual Integration/User Assign Peak Report

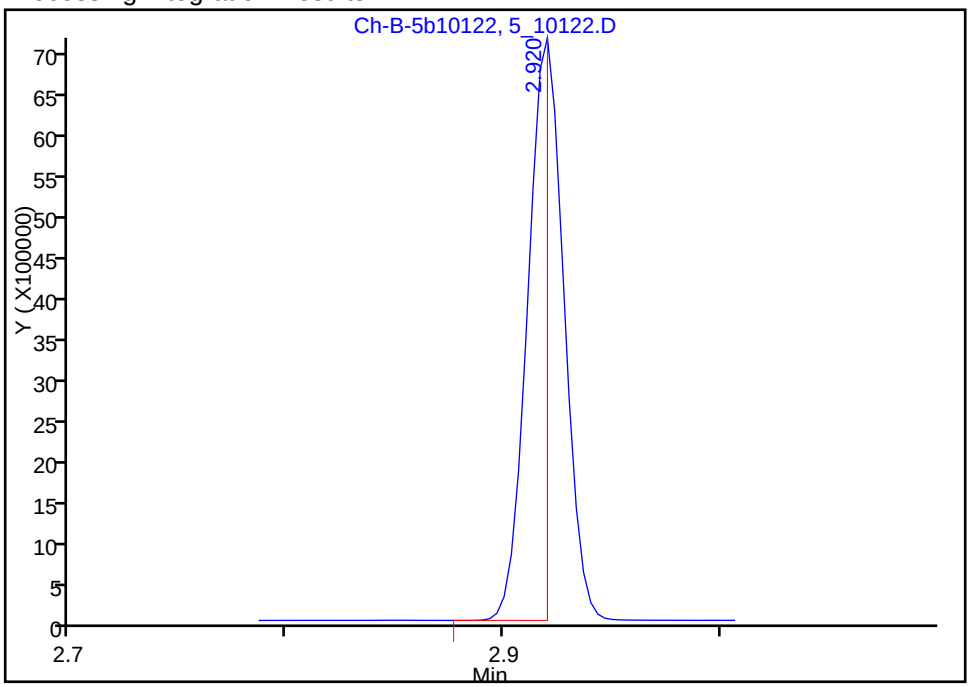
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP6890-05\20140509-31941.b\5_10122.D				
Injection Date:	09-May-2014 13:35:21	Instrument ID:	HP6890-5		
Lims ID:	ccv				
Client ID:					
Operator ID:	buftchrom	ALS Bottle#:	0	Worklist Smp#:	16
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8081-5	Limit Group:	GC - 8081B ICAL		
Column:		Detector	Ch-B-6b58132		

4 alpha-BHC, CAS: 319-84-6

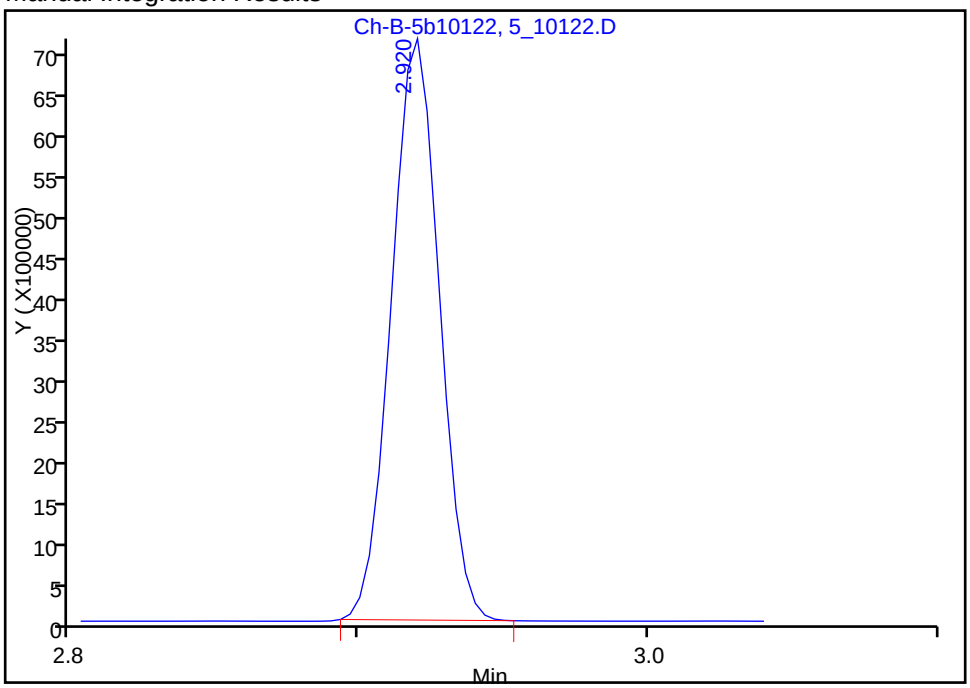
Processing Integration Results

RT: 2.92
Response: 4399992
Amount: 0.028931



Manual Integration Results

RT: 2.92
Response: 8209145
Amount: 0.053055



Reviewer: WolfL, 09-May-2014 14:00:52
Audit Action: Manually Integrated
Audit Reason: Incomplete Integration

FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1

SDG No.:

Lab Sample ID: CCV 480-181145/23 Calibration Date: 05/09/2014 15:53

Instrument ID: HP6890-5 Calib Start Date: 03/27/2014 14:46

GC Column: RTX-CLPI ID: 0.53(mm) Calib End Date: 03/27/2014 15:57

Lab File ID: 5_10129.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Toxaphene Peak 1	Lin1		3993182		0.490	0.500	-1.9	20.0
Toxaphene Peak 2	Lin1		4393362		0.544	0.500	8.8	20.0
Toxaphene Peak 3	Lin1		3377302		0.407	0.500	-18.5	20.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1

SDG No.:

Lab Sample ID: CCV 480-181145/23 Calibration Date: 05/09/2014 15:53

Instrument ID: HP6890-5 Calib Start Date: 03/27/2014 14:46

GC Column: RTX-CLPI ID: 0.53(mm) Calib End Date: 03/27/2014 15:57

Lab File ID: 5_10129.D

Analyte	RT	RT WINDOW	
		FROM	TO
Toxaphene Peak 1	4.92	4.89	4.95
Toxaphene Peak 2	5.27	5.24	5.30
Toxaphene Peak 3	5.69	5.66	5.72

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-05\20140509-31941.b\5_10129.D
Lims ID: ccv
Client ID:
Sample Type: CCV
Inject. Date: 09-May-2014 15:53:48 ALS Bottle#: 0 Worklist Smp#: 23
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, CN10520009
Operator ID: buftchrom Instrument ID: HP6890-5
Sublist: chrom-8081-5*sub7

Method: \\Bufchrom\ChromData\HP6890-05\20140509-31941.b\8081-5.m
Limit Group: GC - 8081B ICAL
Last Update: 12-May-2014 12:38:33 Calib Date: 27-Mar-2014 19:29:41
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP6890-05\20140326-30487.b\5__7098.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK027

First Level Reviewer: WolfL Date: 12-May-2014 12:35:51

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
24 Toxaphene							M
1	4.917	4.917	0.000	1996591	0.5000	0.4904	M
1	5.273	5.273	0.000	2196681	0.5000	0.5442	M
1	5.693	5.693	0.000	1688651	0.5000	0.4073	M
		Average of Peak Amounts =				0.4806	
2	5.813	5.813	0.000	2682275	0.5000	0.4575	M
2	6.083	6.083	0.000	1523767	0.5000	0.4788	
2	6.583	6.583	0.000	1237434	0.5000	0.4533	M
		Average of Peak Amounts =				0.4632	
						RPD = 3.69	

QC Flag Legend

Review Flags
M - Manually Integrated

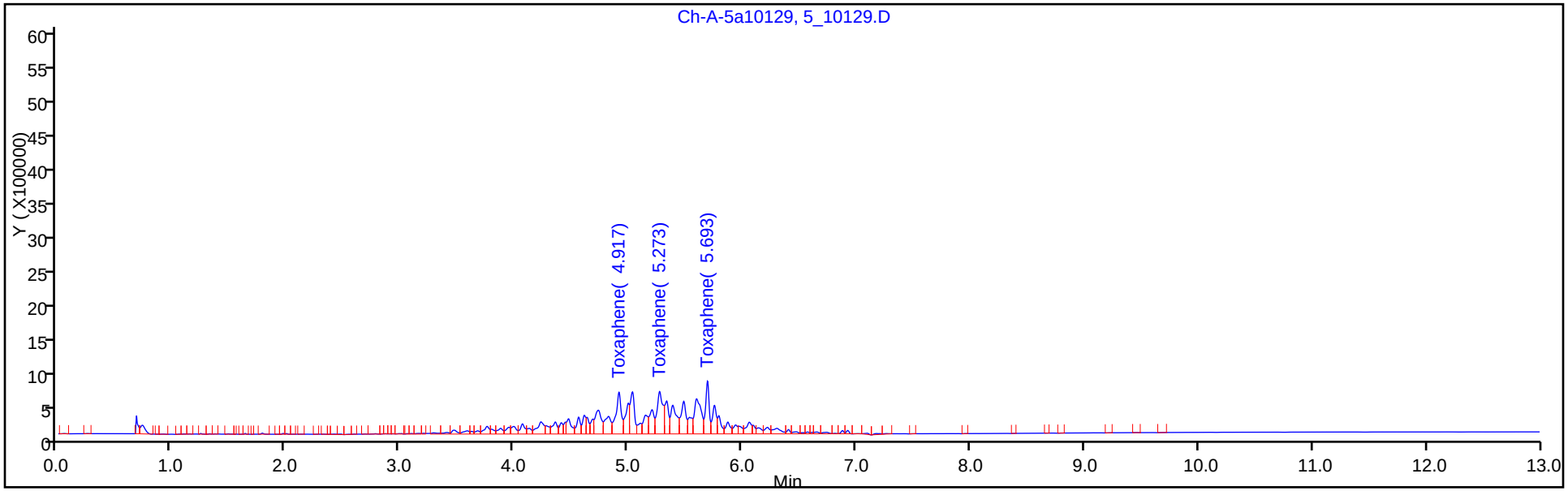
Report Date: 12-May-2014 12:38:35 Chrom Revision: 2.2 14-Apr-2014 13:40:08

TestAmerica Buffalo

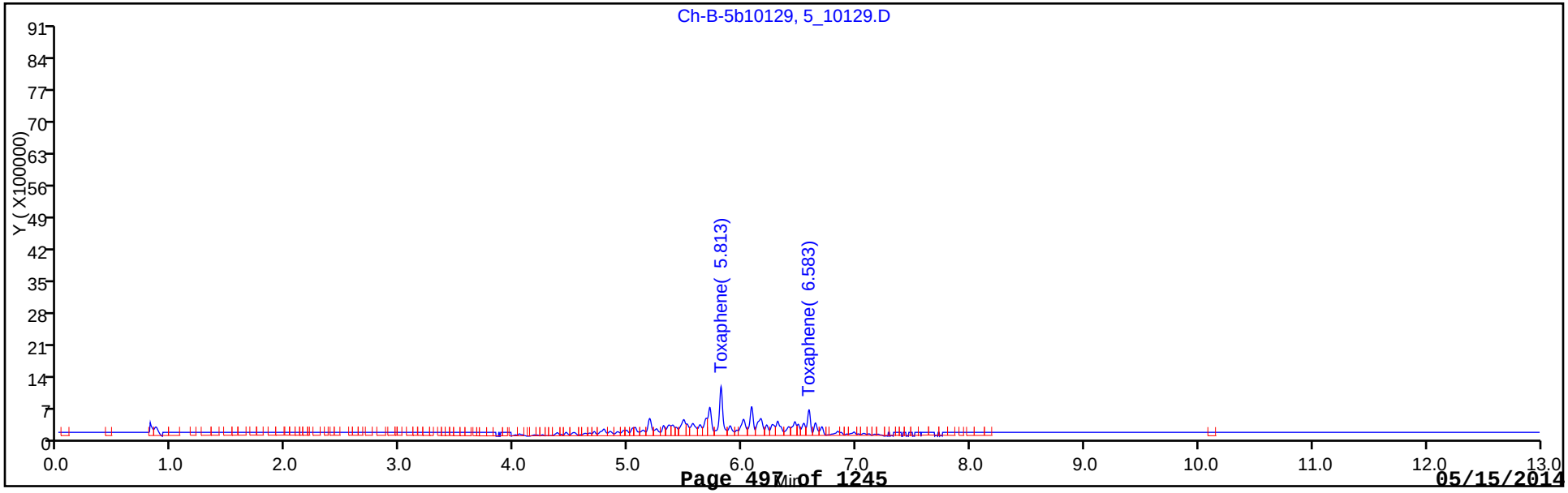
Data File: \\Bufchrom\ChromData\HP6890-05\20140509-31941.b\5_10129.D

Injection Date:	09-May-2014 15:53:48	Instrument ID:	HP6890-5	Operator ID:	buftchrom
Lims ID:	ccv			Worklist Smp#:	23
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8081-5	Limit Group:	GC - 8081B ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value

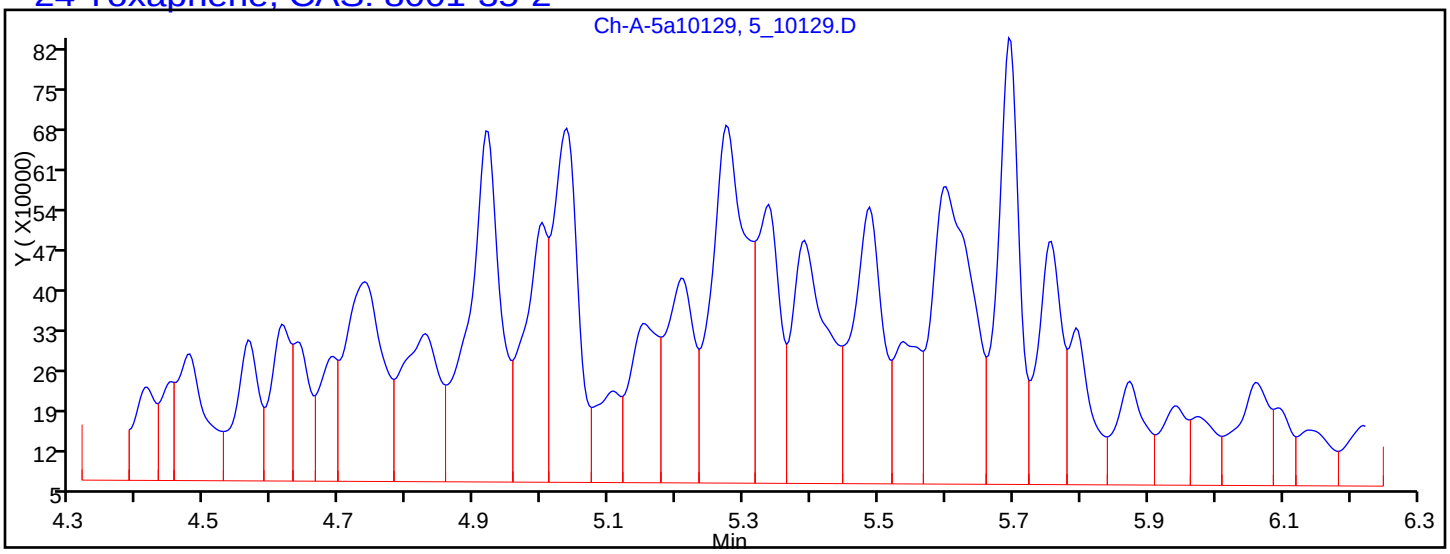


Report Date: 12-May-2014 12:38:35 Chrom Revision: 2.2 14-Apr-2014 13:40:08

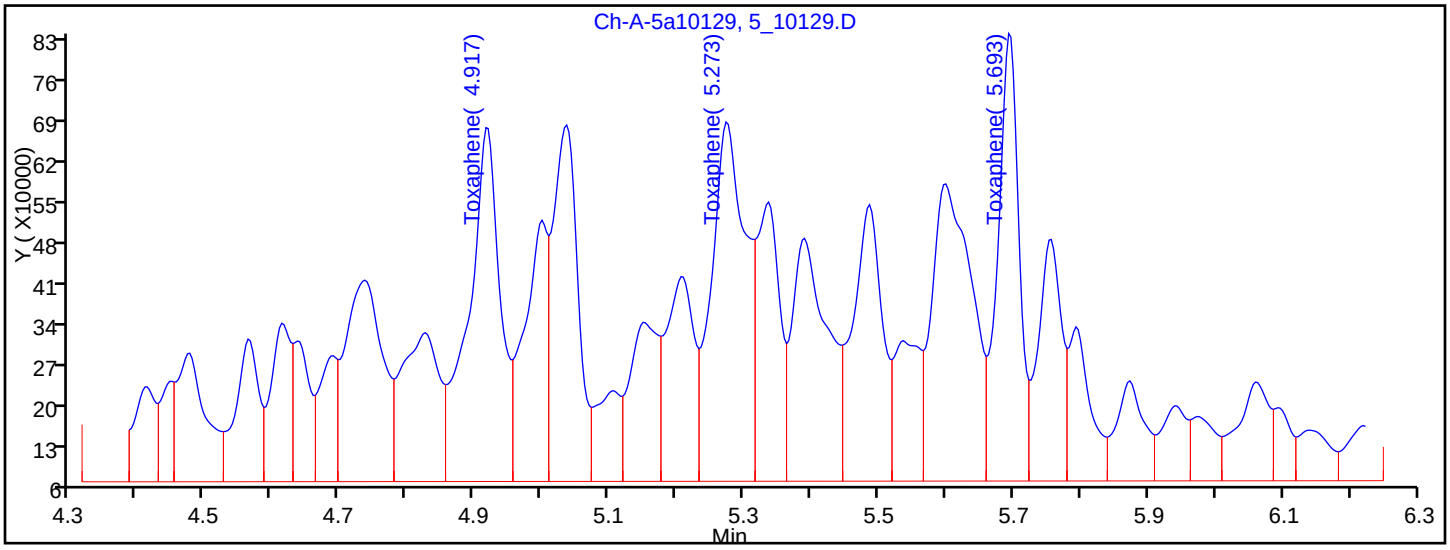
TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-05\20140509-31941.b\5_10129.D
Injection Date: 09-May-2014 15:53:48 Instrument ID: HP6890-5
Lims ID: ccv
Client ID:
Operator ID: buftchrom ALS Bottle#: 0 Worklist Smp#: 23
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8081-5 Limit Group: GC - 8081B ICAL
Column: Detector Ch-A-6A58132

24 Toxaphene, CAS: 8001-35-2



Processing Integration Results



Manual Integration Results

RT = 4.917	Response = 1996591	M
RT = 5.273	Response = 2196681	M
RT = 5.693	Response = 1688651	M

Reviewer: WolfL, 12-May-2014 12:35:51
Audit Action: Assigned New Baseline
Audit Reason: Incomplete Integration

FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1

SDG No.:

Lab Sample ID: CCV 480-181145/23 Calibration Date: 05/09/2014 15:53

Instrument ID: HP6890-5 Calib Start Date: 03/27/2014 14:46

GC Column: RTX-CLPII ID: 0.53(mm) Calib End Date: 03/27/2014 15:57

Lab File ID: 5_10129.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Toxaphene Peak 1	Lin1		5364550		0.458	0.500	-8.5	20.0
Toxaphene Peak 2	Lin1		3047534		0.479	0.500	-4.2	20.0
Toxaphene Peak 3	Lin1		2474868		0.453	0.500	-9.3	20.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1

SDG No.:

Lab Sample ID: CCV 480-181145/23 Calibration Date: 05/09/2014 15:53

Instrument ID: HP6890-5 Calib Start Date: 03/27/2014 14:46

GC Column: RTX-CLPII ID: 0.53(mm) Calib End Date: 03/27/2014 15:57

Lab File ID: 5_10129.D

Analyte	RT	RT WINDOW	
		FROM	TO
Toxaphene Peak 1	5.81	5.78	5.84
Toxaphene Peak 2	6.08	6.05	6.11
Toxaphene Peak 3	6.58	6.55	6.61

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-05\20140509-31941.b\5_10129.D
Lims ID: ccv
Client ID:
Sample Type: CCV
Inject. Date: 09-May-2014 15:53:48 ALS Bottle#: 0 Worklist Smp#: 23
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, CN10520009
Operator ID: buftchrom Instrument ID: HP6890-5
Sublist: chrom-8081-5*sub7

Method: \\Bufchrom\ChromData\HP6890-05\20140509-31941.b\8081-5.m
Limit Group: GC - 8081B ICAL
Last Update: 12-May-2014 12:38:33 Calib Date: 27-Mar-2014 19:29:41
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP6890-05\20140326-30487.b\5__7098.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK027

First Level Reviewer: WolfL Date: 12-May-2014 12:35:51

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
24 Toxaphene							M
1	4.917	4.917	0.000	1996591	0.5000	0.4904	M
1	5.273	5.273	0.000	2196681	0.5000	0.5442	M
1	5.693	5.693	0.000	1688651	0.5000	0.4073	M
		Average of Peak Amounts =				0.4806	
2	5.813	5.813	0.000	2682275	0.5000	0.4575	M
2	6.083	6.083	0.000	1523767	0.5000	0.4788	
2	6.583	6.583	0.000	1237434	0.5000	0.4533	M
		Average of Peak Amounts =				0.4632	
						RPD = 3.69	

QC Flag Legend

Review Flags
M - Manually Integrated

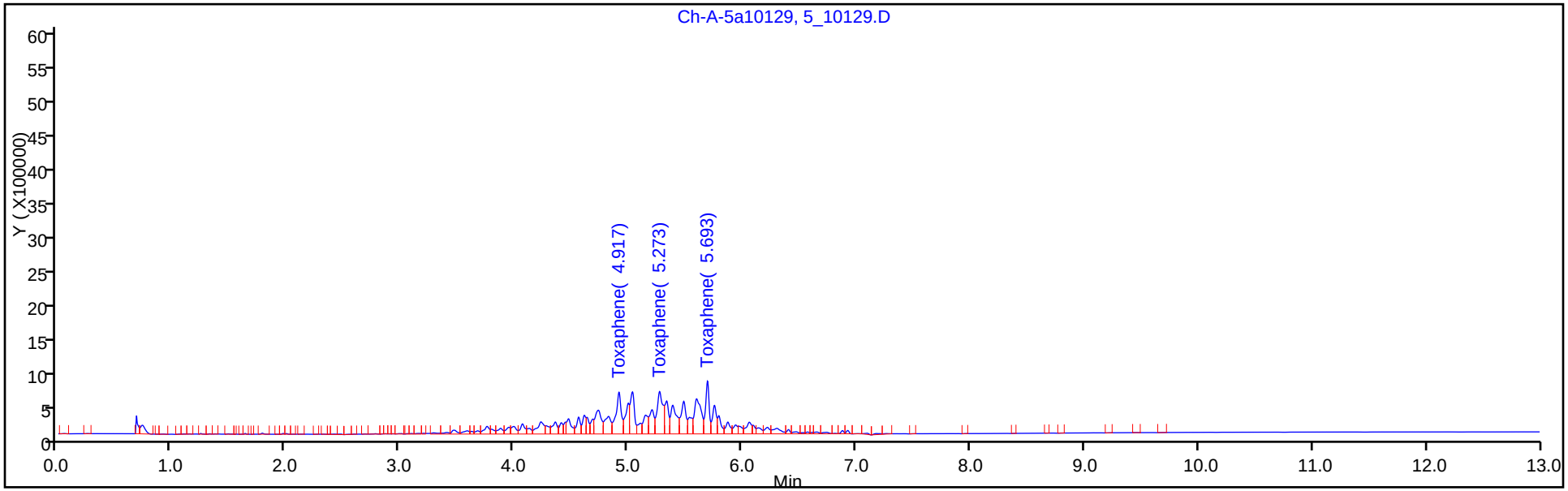
Report Date: 12-May-2014 12:38:35 Chrom Revision: 2.2 14-Apr-2014 13:40:08

TestAmerica Buffalo

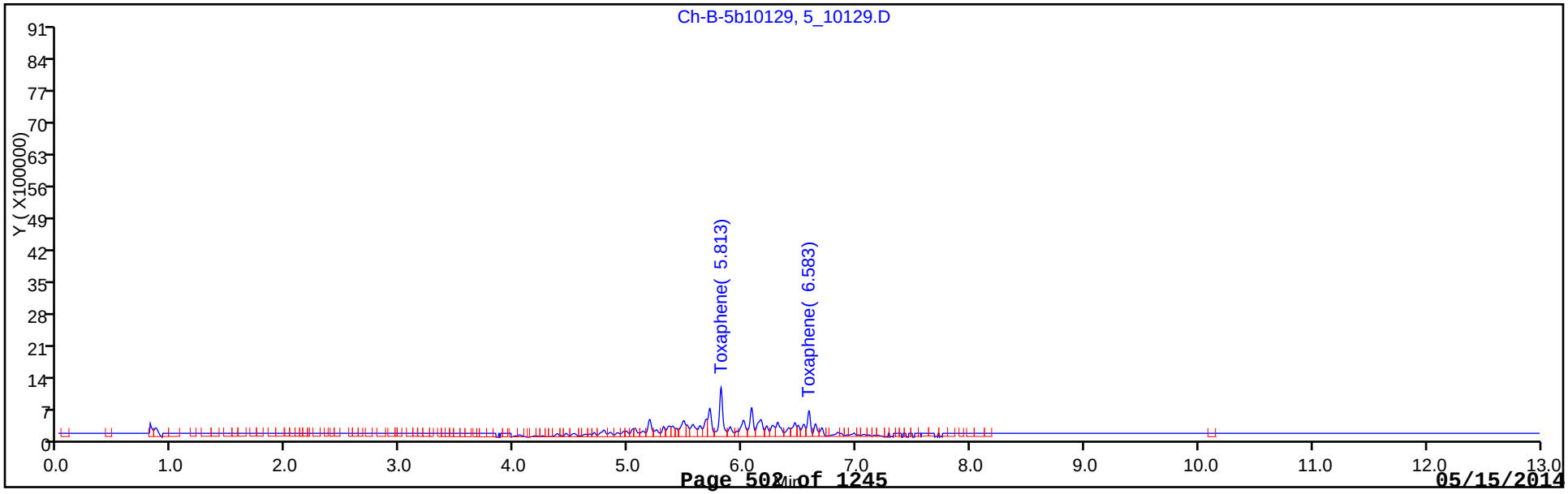
Data File: \\Bufchrom\ChromData\HP6890-05\20140509-31941.b\5_10129.D

Injection Date:	09-May-2014 15:53:48	Instrument ID:	HP6890-5	Operator ID:	buftchrom
Lims ID:	ccv			Worklist Smp#:	23
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8081-5	Limit Group:	GC - 8081B ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value

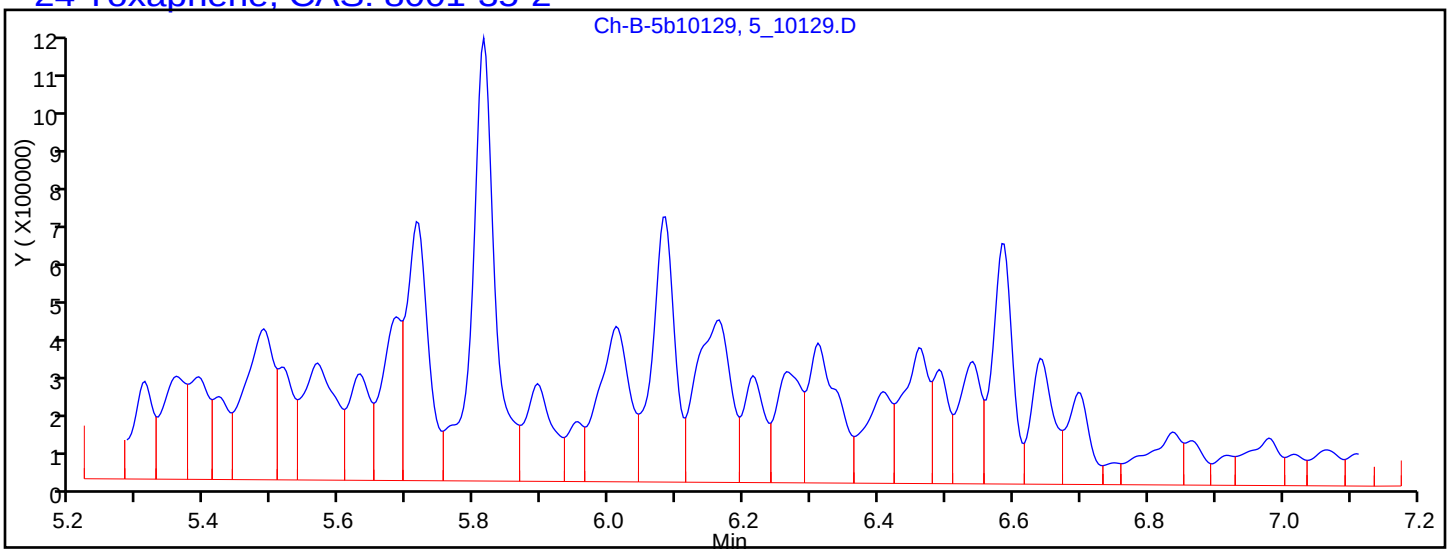


Report Date: 12-May-2014 12:38:35 Chrom Revision: 2.2 14-Apr-2014 13:40:08

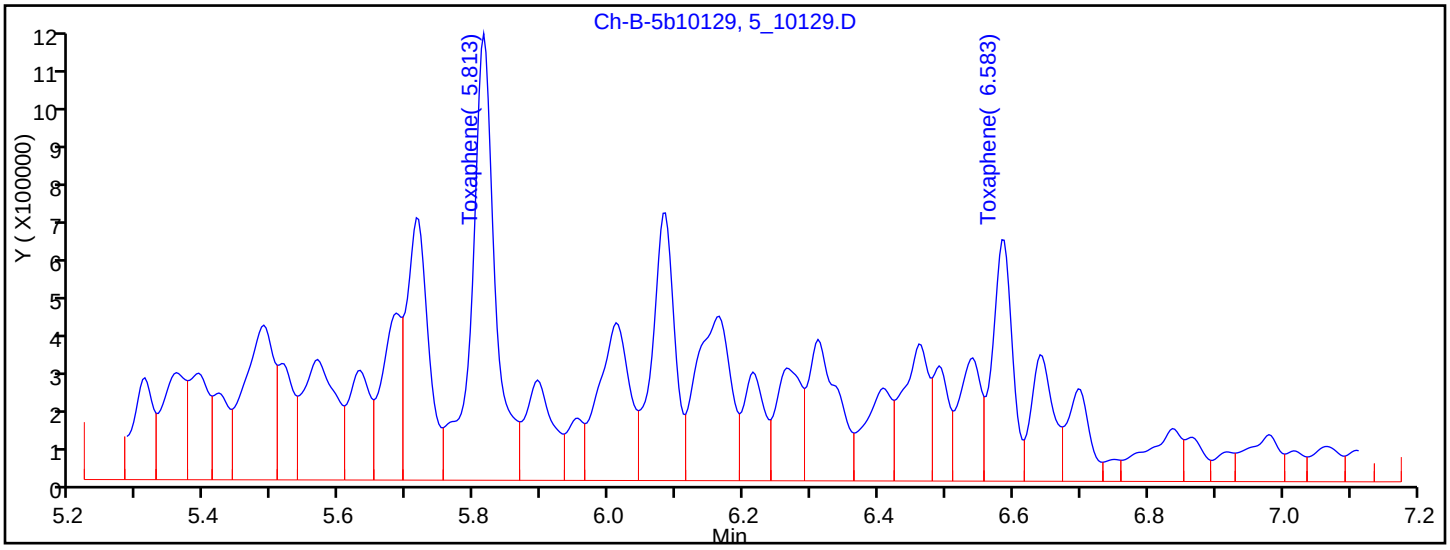
TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-05\20140509-31941.b\5_10129.D
Injection Date: 09-May-2014 15:53:48 Instrument ID: HP6890-5
Lims ID: ccv
Client ID:
Operator ID: buftchrom ALS Bottle#: 0 Worklist Smp#: 23
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8081-5 Limit Group: GC - 8081B ICAL
Column: Detector Ch-B-6b58132

24 Toxaphene, CAS: 8001-35-2



Processing Integration Results



Manual Integration Results

RT = 5.813 Response = 2682275 M
RT = 6.083 Response = 1523767
RT = 6.583 Response = 1237434 M

Reviewer: WolfL, 12-May-2014 12:35:51
Audit Action: Assigned New Baseline
Audit Reason: Incomplete Integration

FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 480-180803/1-A

Matrix: Solid Lab File ID: 5_10111.D

Analysis Method: 8081B Date Collected:

Extraction Method: 3510C Date Extracted: 05/08/2014 07:12

Sample wt/vol: 1000(mL) Date Analyzed: 05/09/2014 10:22

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: RTX-CLPI ID: 0.53(mm)

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

Analysis Batch No.: 181145 Units: mg/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	49		20-120
877-09-8	Tetrachloro-m-xylene	66		36-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-05\20140509-31941.b\5_10111.D
Lims ID: MB 480-180803/1-A
Client ID:
Sample Type: MB
Inject. Date: 09-May-2014 10:22:42 ALS Bottle#: 0 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, CN10520009
Operator ID: buftchrom Instrument ID: HP6890-5

Method: \\Bufchrom\ChromData\HP6890-05\20140509-31941.b\8081-5.m
Limit Group: GC - 8081B ICAL
Last Update: 12-May-2014 12:38:04 Calib Date: 27-Mar-2014 19:29:41
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP6890-05\20140326-30487.b\5__7098.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK027

First Level Reviewer: WolfL Date: 09-May-2014 10:48:27

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
$ 1 Tetrachloro-m-xylene							
1	2.110	2.103	0.007	948738	0.0200	0.0132	
2	2.443	2.443	0.000	1481182	0.0200	0.0164	
						RPD = 21.63	
$ 2 DCB Decachlorobiphenyl							
1	7.130	7.117	0.013	754824	0.0200	0.009710	
2	8.120	8.113	0.007	891362	0.0200	0.0127	
						RPD = 26.54	
3 Dechlorane Plus							
1	0.050	0.053	-0.003	10744		NC	
8 delta-BHC							
1	2.883	2.890	-0.007	17043		0.001761	
2	3.553	3.553	0.000	12253		0.001036	
						RPD = 51.84	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
22 4,4'-DDD							
1	4.783	4.793	-0.010	34044		0.001674	
2	5.633	5.633	0.000	15459		0.001042	
						RPD = 46.58	
S 35 BHC, Total							
1						0.001761	
2						0.001036	
						RPD = 51.84	

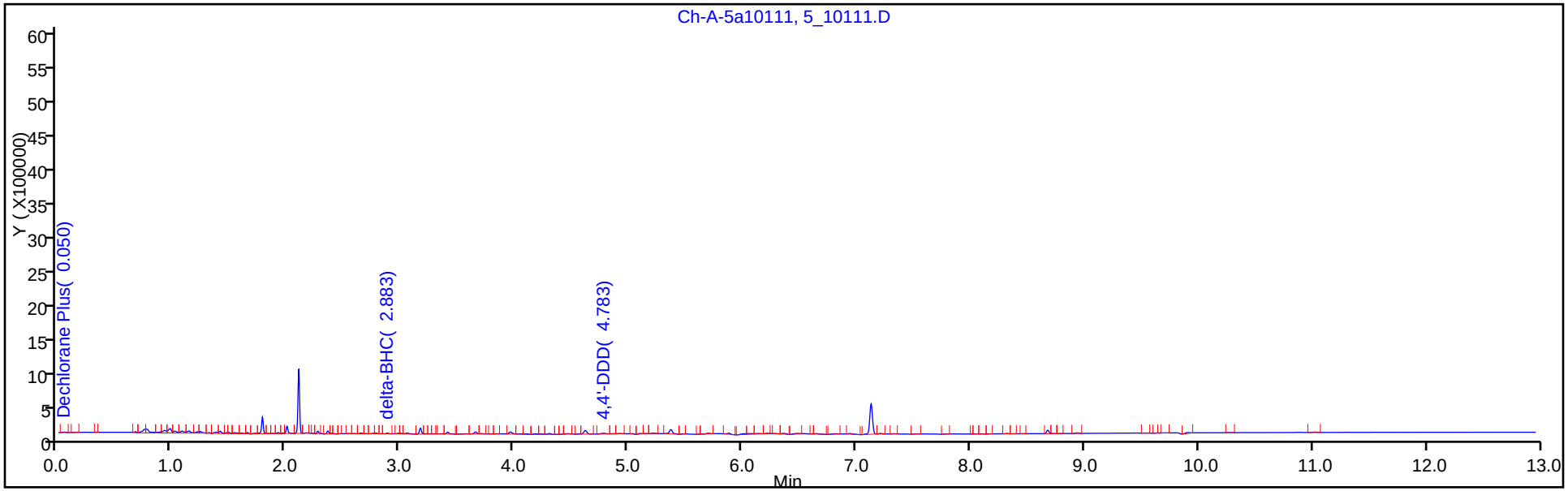
Report Date: 12-May-2014 12:38:07 Chrom Revision: 2.2 14-Apr-2014 13:40:08

TestAmerica Buffalo

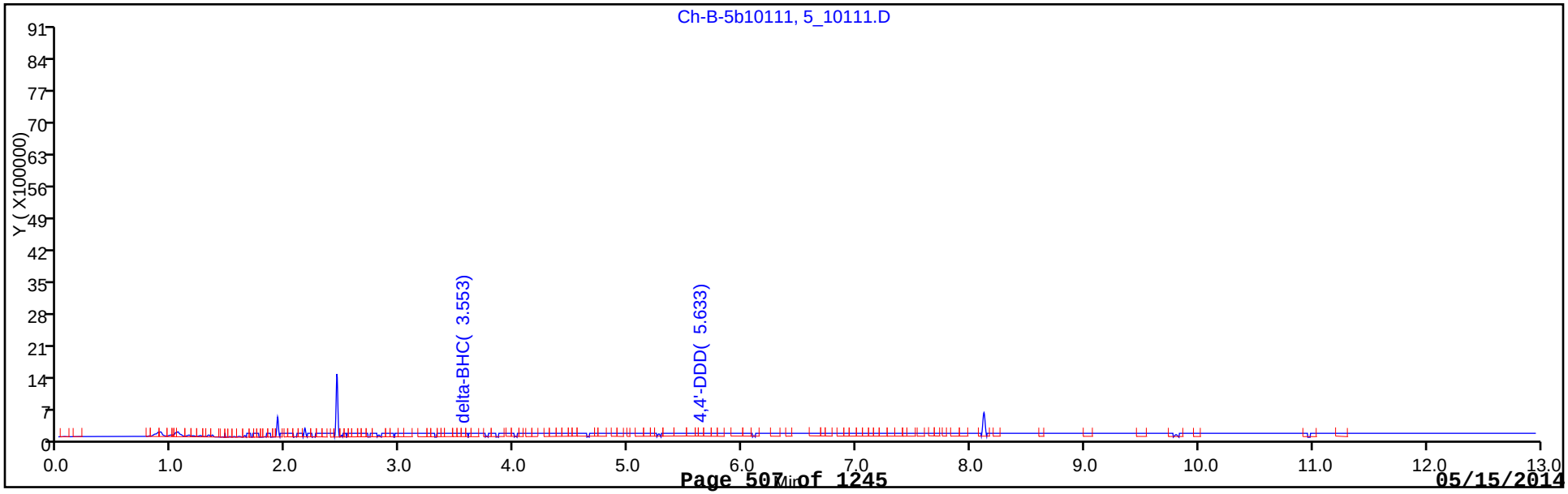
Data File: \\Bufchrom\ChromData\HP6890-05\20140509-31941.b\5_10111.D

Injection Date:	09-May-2014 10:22:42	Instrument ID:	HP6890-5	Operator ID:	buftchrom
Lims ID:	MB 480-180803/1-A			Worklist Smp#:	5
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8081-5	Limit Group:	GC - 8081B ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 480-180803/1-A

Matrix: Solid Lab File ID: 5_10111.D

Analysis Method: 8081B Date Collected:

Extraction Method: 3510C Date Extracted: 05/08/2014 07:12

Sample wt/vol: 1000(mL) Date Analyzed: 05/09/2014 10:22

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: RTX-CLPII ID: 0.53(mm)

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

Analysis Batch No.: 181145 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
57-74-9	Chlordane (technical)	ND		0.00050	0.0000073
72-20-8	Endrin	ND		0.000050	0.0000035
58-89-9	gamma-BHC (Lindane)	ND		0.000050	0.0000015
76-44-8	Heptachlor	ND		0.000050	0.0000021
1024-57-3	Heptachlor epoxide	ND		0.000050	0.0000013
72-43-5	Methoxychlor	ND		0.000050	0.0000035
8001-35-2	Toxaphene	ND		0.00050	0.000030

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	63		20-120
877-09-8	Tetrachloro-m-xylene	82		36-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-05\20140509-31941.b\5_10111.D
Lims ID: MB 480-180803/1-A
Client ID:
Sample Type: MB
Inject. Date: 09-May-2014 10:22:42 ALS Bottle#: 0 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, CN10520009
Operator ID: buftchrom Instrument ID: HP6890-5

Method: \\Bufchrom\ChromData\HP6890-05\20140509-31941.b\8081-5.m
Limit Group: GC - 8081B ICAL
Last Update: 12-May-2014 12:38:04 Calib Date: 27-Mar-2014 19:29:41
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP6890-05\20140326-30487.b\5__7098.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK027

First Level Reviewer: WolfL Date: 09-May-2014 10:48:27

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
$ 1 Tetrachloro-m-xylene							
1	2.110	2.103	0.007	948738	0.0200	0.0132	
2	2.443	2.443	0.000	1481182	0.0200	0.0164	
						RPD = 21.63	
$ 2 DCB Decachlorobiphenyl							
1	7.130	7.117	0.013	754824	0.0200	0.009710	
2	8.120	8.113	0.007	891362	0.0200	0.0127	
						RPD = 26.54	
3 Dechlorane Plus							
1	0.050	0.053	-0.003	10744		NC	
8 delta-BHC							
1	2.883	2.890	-0.007	17043		0.001761	
2	3.553	3.553	0.000	12253		0.001036	
						RPD = 51.84	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
22 4,4'-DDD							
1	4.783	4.793	-0.010	34044		0.001674	
2	5.633	5.633	0.000	15459		0.001042	
						RPD = 46.58	
S 35 BHC, Total							
1						0.001761	
2						0.001036	
						RPD = 51.84	

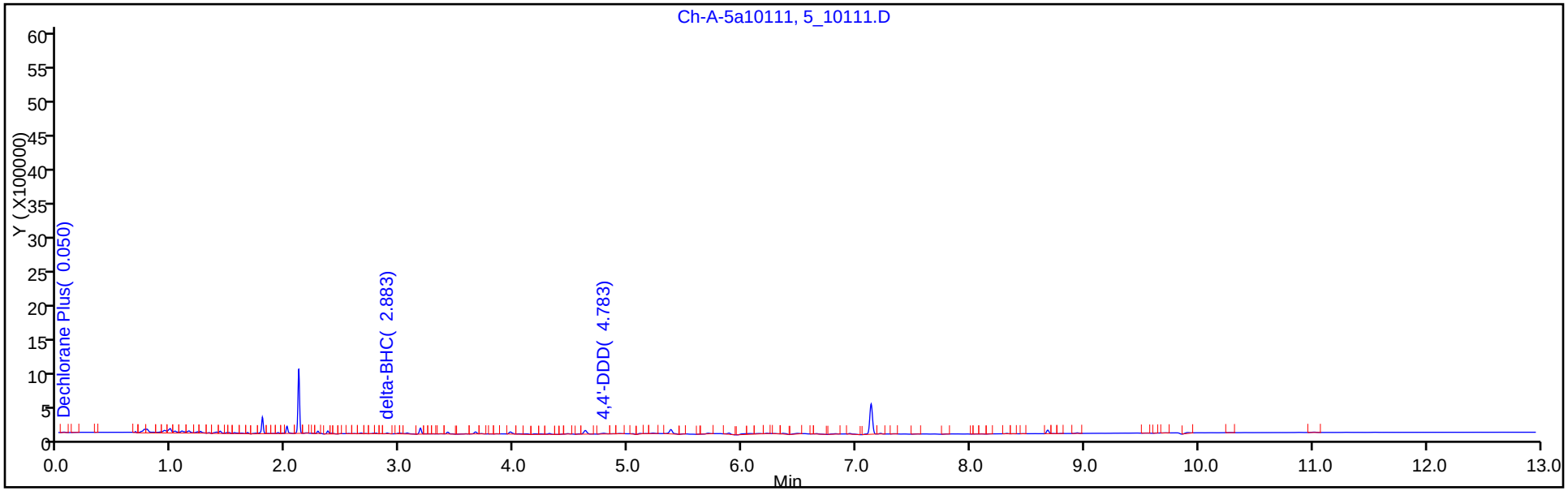
Report Date: 12-May-2014 12:38:08 Chrom Revision: 2.2 14-Apr-2014 13:40:08

TestAmerica Buffalo

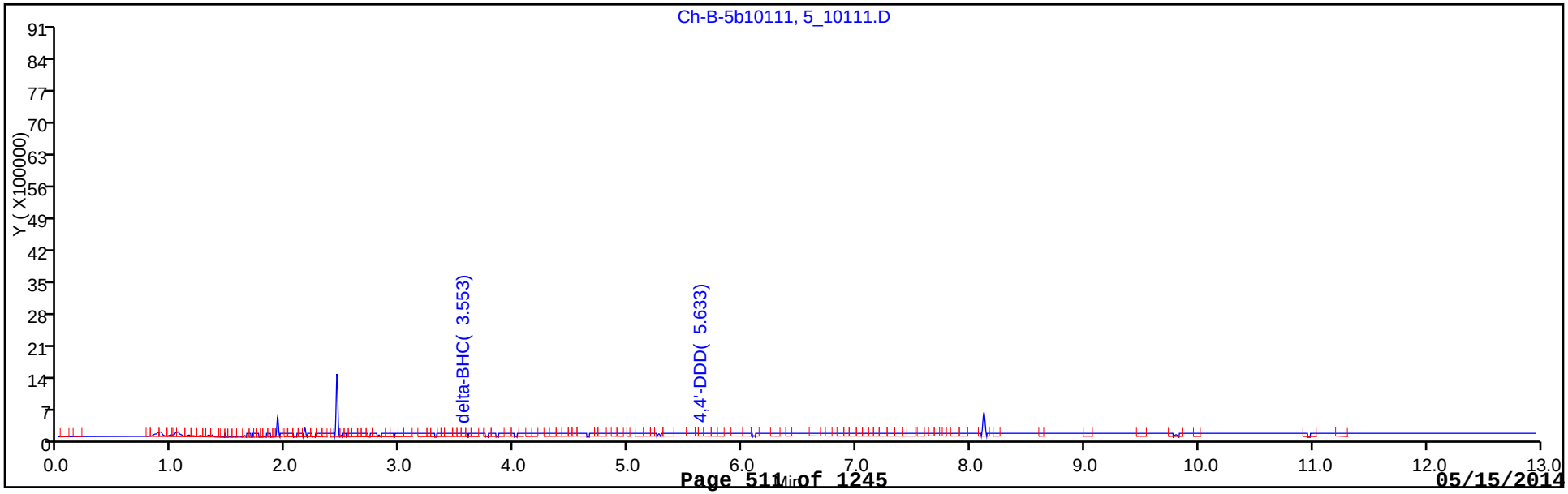
Data File: \\Bufchrom\ChromData\HP6890-05\20140509-31941.b\5_10111.D

Injection Date:	09-May-2014 10:22:42	Instrument ID:	HP6890-5	Operator ID:	buftchrom
Lims ID:	MB 480-180803/1-A			Worklist Smp#:	5
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8081-5	Limit Group:	GC - 8081B ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1

SDG No.:

Client Sample ID: Lab Sample ID: LB 480-180381/1-F

Matrix: Solid (TCLP) Lab File ID: 5_10114.D

Analysis Method: 8081B Date Collected:

Extraction Method: 3510C Date Extracted: 05/08/2014 07:12

Sample wt/vol: 250(mL) Date Analyzed: 05/09/2014 11:15

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: RTX-CLPI ID: 0.53(mm)

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

Analysis Batch No.: 181145 Units: mg/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	64		20-120
877-09-8	Tetrachloro-m-xylene	66		36-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-05\20140509-31941.b\5_10114.D
Lims ID: LB 480-180381/1-F
Client ID:
Sample Type: LB
Inject. Date: 09-May-2014 11:15:05 ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, CN10520009
Operator ID: buftchrom Instrument ID: HP6890-5

Method: \\Bufchrom\ChromData\HP6890-05\20140509-31941.b\8081-5.m
Limit Group: GC - 8081B ICAL
Last Update: 12-May-2014 12:38:04 Calib Date: 27-Mar-2014 19:29:41
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP6890-05\20140326-30487.b\5__7098.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK027

First Level Reviewer: WolfL Date: 12-May-2014 12:13:47

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
$ 1 Tetrachloro-m-xylene							
1	2.103	2.103	0.000	948208	0.0200	0.0132	
2	2.443	2.443	0.000	1364868	0.0200	0.0151	
						RPD = 13.86	
$ 2 DCB Decachlorobiphenyl							
1	7.117	7.117	0.000	1025001	0.0200	0.0129	
2	8.113	8.113	0.000	1121873	0.0200	0.0160	
						RPD = 21.49	
3 Dechlorane Plus							
1	0.050	0.053	-0.003	8079		NC	
6 gamma-BHC (Lindane)							M
1	2.710	2.693	0.017	74288		0.002117	M
2	3.193	3.217	-0.024	38261		0.001162	
						RPD = 58.25	
8 delta-BHC							
1	2.887	2.890	-0.003	10145		0.001704	
2	3.540	3.553	-0.013	33632		0.001184	
						RPD = 35.99	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
16 4,4'-DDE							
1	4.163	4.187	-0.024	27954		0.001662	
2	5.043	5.047	-0.004	45866		0.001574	
						RPD = 5.40	
26 4,4'-DDT							
1	5.080	5.080	0.000	32934		0.001767	
2	5.970	5.953	0.017	39962		0.001683	
						RPD = 4.81	
S 35 BHC, Total							
1						0.003821	
2						0.002346	
						RPD = 47.83	

QC Flag Legend

Review Flags
M - Manually Integrated

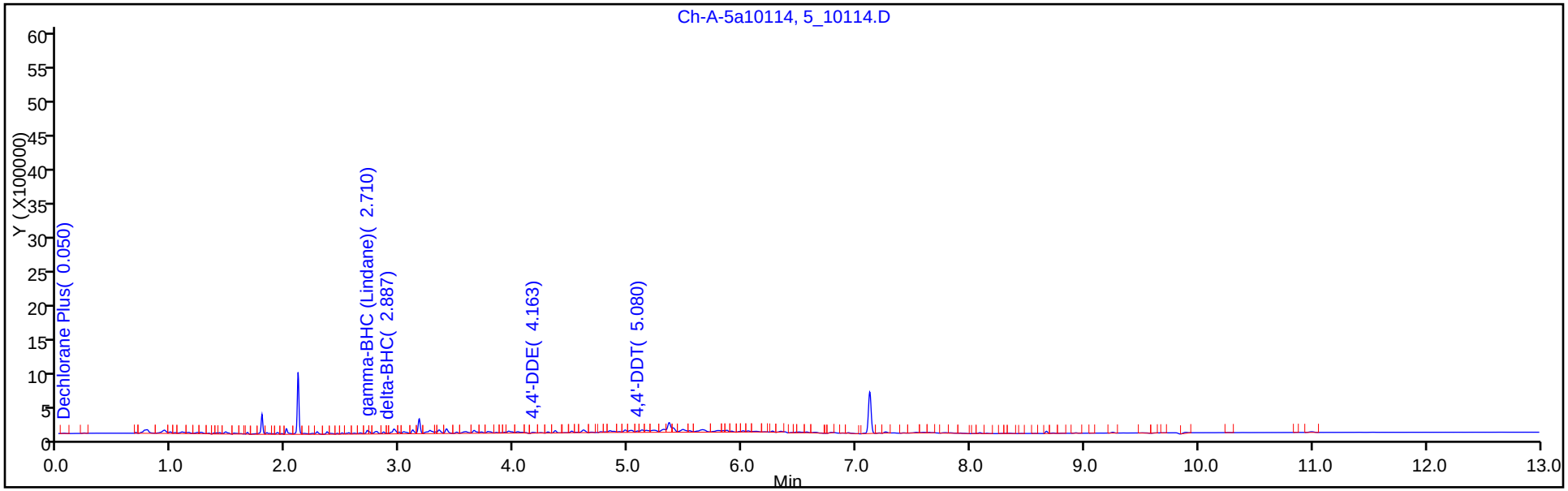
Report Date: 12-May-2014 12:38:13 Chrom Revision: 2.2 14-Apr-2014 13:40:08

TestAmerica Buffalo

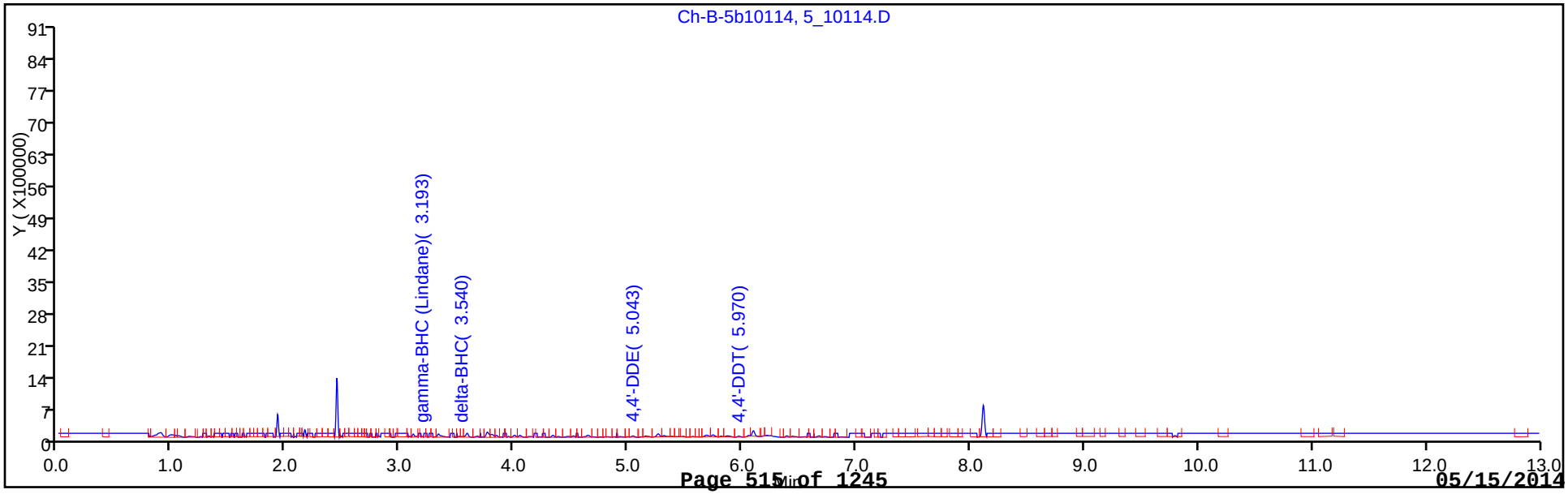
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Injection Date:	09-May-2014 11:15:05	Instrument ID:	HP6890-5	Operator ID:	buftchrom
Lims ID:	LB 480-180381/1-F			Worklist Smp#:	8
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8081-5	Limit Group:	GC - 8081B ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



Manual Integration/User Assign Peak Report

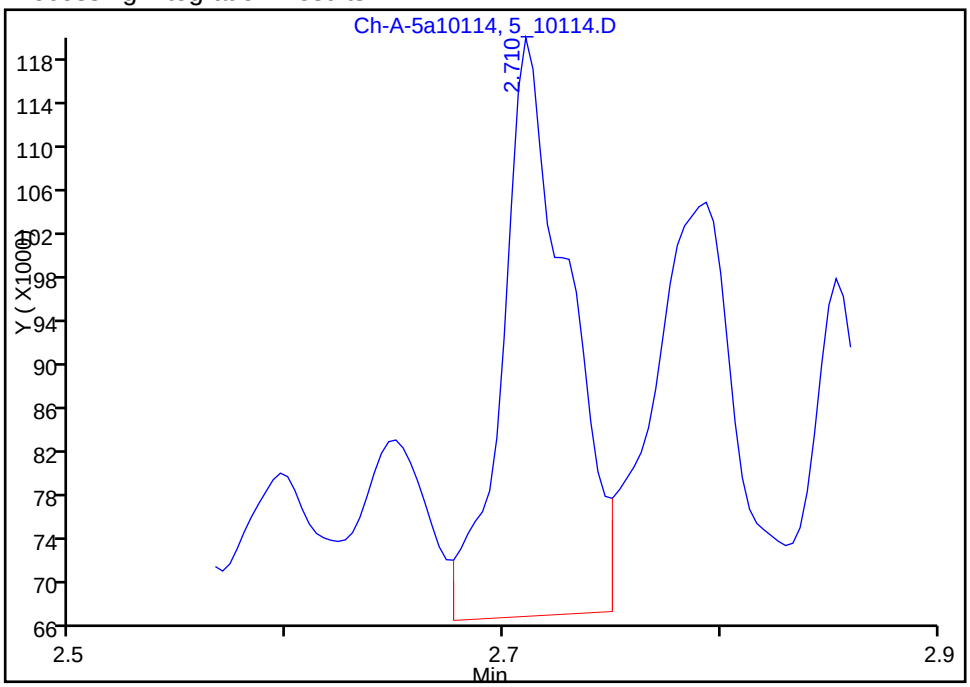
TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-05\20140509-31941.b\5_10114.D
Injection Date: 09-May-2014 11:15:05 Instrument ID: HP6890-5
Lims ID: LB 480-180381/1-F
Client ID:
Operator ID: buftchrom ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8081-5 Limit Group: GC - 8081B ICAL
Column: Detector Ch-A-6A58132

6 gamma-BHC (Lindane), CAS: 58-89-9

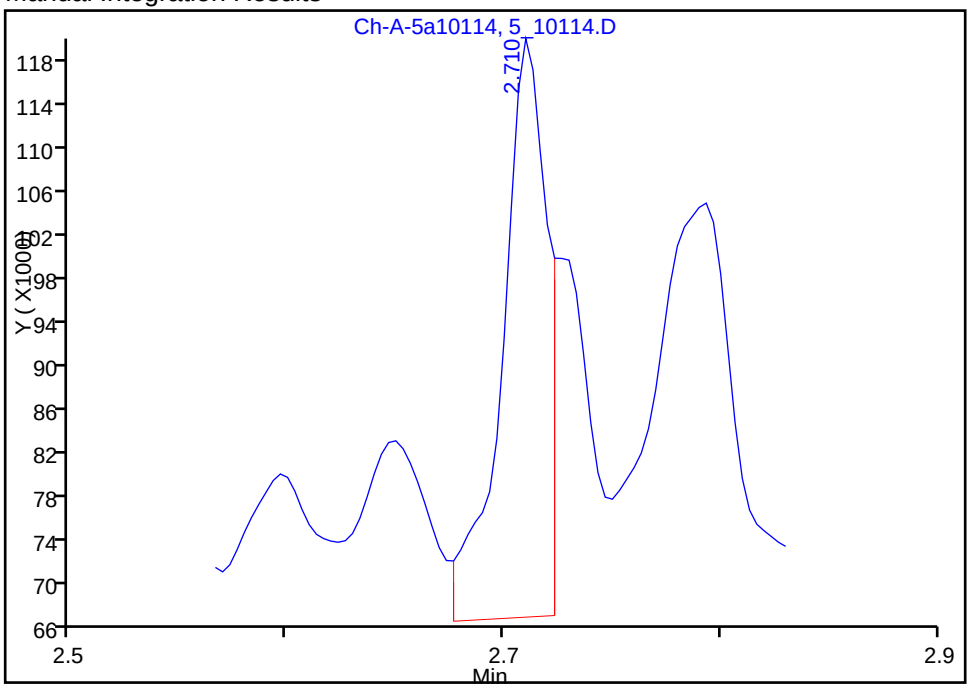
Processing Integration Results

RT: 2.71
Response: 110287
Amount: 0.002417



Manual Integration Results

RT: 2.71
Response: 74288
Amount: 0.002117



Reviewer: WolfL, 12-May-2014 12:13:47
Audit Action: Split an Integrated Peak
Audit Reason: Split Peak

FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-58807-1

SDG No.:

Client Sample ID: | Lab Sample ID: LB 480-180381/1-F

Matrix: Solid (TCLP) | Lab File ID: 5_10114.D

Analysis Method: 8081B | Date Collected:

Extraction Method: 3510C | Date Extracted: 05/08/2014 07:12

Sample wt/vol: 250(mL) | Date Analyzed: 05/09/2014 11:15

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RTX-CLPII ID: 0.53(mm)

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

Analysis Batch No.: 181145 | Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
57-74-9	Chlordane (technical)	ND		0.0020	0.000029
72-20-8	Endrin	ND		0.00020	0.000014
58-89-9	gamma-BHC (Lindane)	0.0000465	J	0.00020	0.0000060
76-44-8	Heptachlor	ND		0.00020	0.0000085
1024-57-3	Heptachlor epoxide	ND		0.00020	0.0000053
72-43-5	Methoxychlor	ND		0.00020	0.000014
8001-35-2	Toxaphene	ND		0.0020	0.00012

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	80		20-120
877-09-8	Tetrachloro-m-xylene	76		36-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-05\20140509-31941.b\5_10114.D
Lims ID: LB 480-180381/1-F
Client ID:
Sample Type: LB
Inject. Date: 09-May-2014 11:15:05 ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, CN10520009
Operator ID: buftchrom Instrument ID: HP6890-5

Method: \\Bufchrom\ChromData\HP6890-05\20140509-31941.b\8081-5.m
Limit Group: GC - 8081B ICAL
Last Update: 12-May-2014 12:38:04 Calib Date: 27-Mar-2014 19:29:41
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP6890-05\20140326-30487.b\5__7098.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK027

First Level Reviewer: WolfL Date: 12-May-2014 12:13:47

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
$ 1 Tetrachloro-m-xylene							
1	2.103	2.103	0.000	948208	0.0200	0.0132	
2	2.443	2.443	0.000	1364868	0.0200	0.0151	
						RPD = 13.86	
$ 2 DCB Decachlorobiphenyl							
1	7.117	7.117	0.000	1025001	0.0200	0.0129	
2	8.113	8.113	0.000	1121873	0.0200	0.0160	
						RPD = 21.49	
3 Dechlorane Plus							
1	0.050	0.053	-0.003	8079		NC	
6 gamma-BHC (Lindane)							M
1	2.710	2.693	0.017	74288		0.002117	M
2	3.193	3.217	-0.024	38261		0.001162	
						RPD = 58.25	
8 delta-BHC							
1	2.887	2.890	-0.003	10145		0.001704	
2	3.540	3.553	-0.013	33632		0.001184	
						RPD = 35.99	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
16 4,4'-DDE							
1	4.163	4.187	-0.024	27954		0.001662	
2	5.043	5.047	-0.004	45866		0.001574	
						RPD = 5.40	
26 4,4'-DDT							
1	5.080	5.080	0.000	32934		0.001767	
2	5.970	5.953	0.017	39962		0.001683	
						RPD = 4.81	
S 35 BHC, Total							
1						0.003821	
2						0.002346	
						RPD = 47.83	

QC Flag Legend

Review Flags
M - Manually Integrated

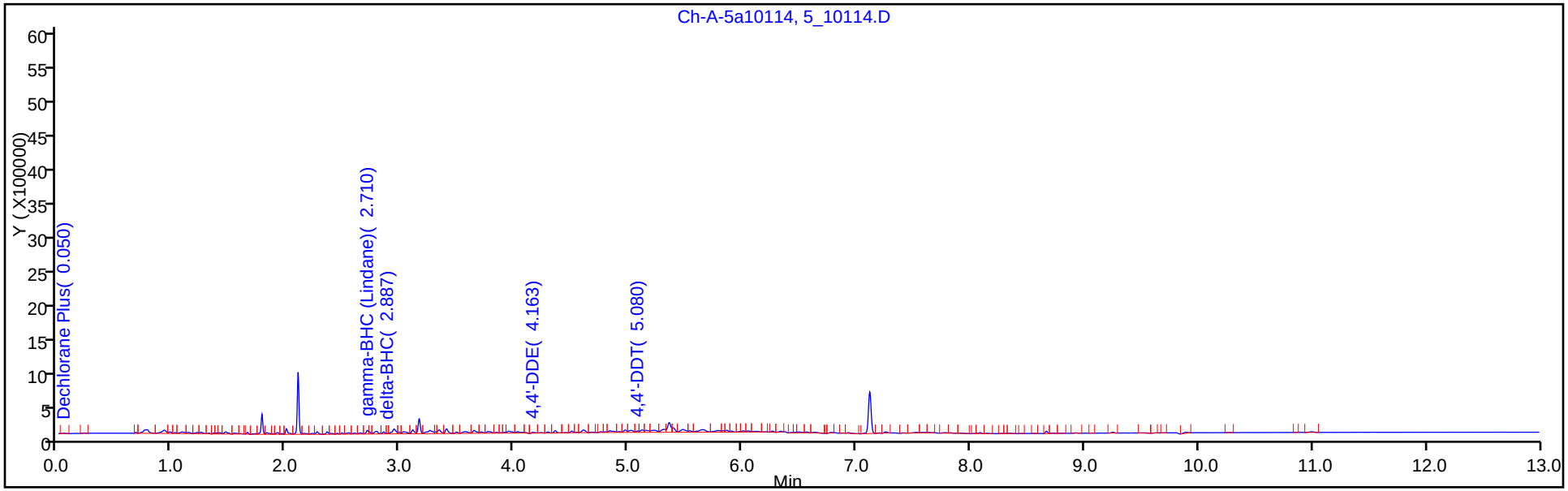
Report Date: 12-May-2014 12:38:13 Chrom Revision: 2.2 14-Apr-2014 13:40:08

TestAmerica Buffalo

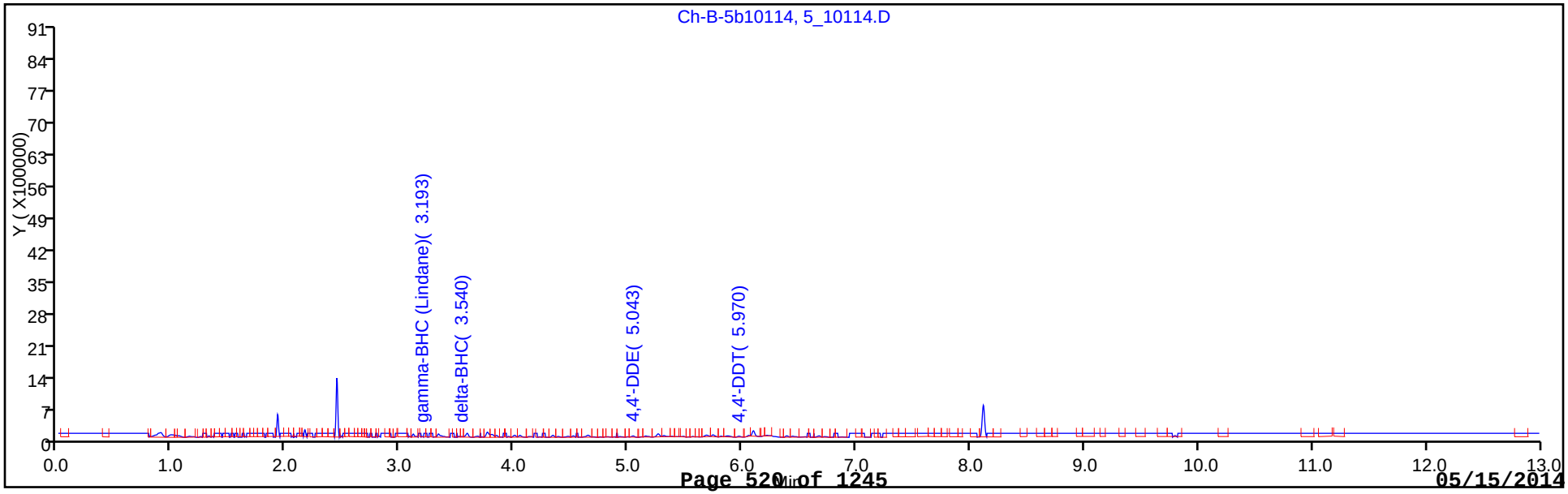
Data File: \\Bufchrom\ChromData\HP6890-05\20140509-31941.b\5_10114.D

Injection Date:	09-May-2014 11:15:05	Instrument ID:	HP6890-5	Operator ID:	buftchrom
Lims ID:	LB 480-180381/1-F			Worklist Smp#:	8
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8081-5	Limit Group:	GC - 8081B ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 480-180803/2-A

Matrix: Solid Lab File ID: 5_10112.D

Analysis Method: 8081B Date Collected:

Extraction Method: 3510C Date Extracted: 05/08/2014 07:12

Sample wt/vol: 1000(mL) Date Analyzed: 05/09/2014 10:40

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: RTX-CLPI ID: 0.53(mm)

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

Analysis Batch No.: 181145 Units: mg/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	63		20-120
877-09-8	Tetrachloro-m-xylene	72		36-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-05\20140509-31941.b\5_10112.D
Lims ID: LCS 480-180803/2-A
Client ID:
Sample Type: LCS
Inject. Date: 09-May-2014 10:40:03 ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, CN10520009
Operator ID: buftchrom Instrument ID: HP6890-5

Method: \\Bufchrom\ChromData\HP6890-05\20140509-31941.b\8081-5.m
Limit Group: GC - 8081B ICAL
Last Update: 12-May-2014 12:38:04 Calib Date: 27-Mar-2014 19:29:41
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP6890-05\20140326-30487.b\5__7098.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK027

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
$ 1 Tetrachloro-m-xylene							
1	2.100	2.103	-0.003	1039053	0.0200	0.0143	
2	2.440	2.443	-0.003	1568100	0.0200	0.0173	
						RPD = 18.75	
$ 2 DCB Decachlorobiphenyl							
1	7.117	7.117	0.000	998002	0.0200	0.0125	
2	8.113	8.113	0.000	1017934	0.0200	0.0145	
						RPD = 14.31	
4 alpha-BHC							
1	2.470	2.470	0.000	5000621	0.0500	0.0387	
2	2.913	2.913	0.000	7595222	0.0500	0.0492	
						RPD = 23.79	
6 gamma-BHC (Lindane)							
1	2.693	2.693	0.000	4718443	0.0500	0.0409	
2	3.217	3.217	0.000	6909517	0.0500	0.0497	
						RPD = 19.63	
7 beta-BHC							
1	2.753	2.757	-0.004	1909032	0.0500	0.0436	
2	3.283	3.283	0.000	2810058	0.0500	0.0520	
						RPD = 17.53	
8 delta-BHC							
1	2.887	2.890	-0.003	4948864	0.0500	0.0422	
2	3.553	3.553	0.000	7113784	0.0500	0.0504	
						RPD = 17.60	
9 Heptachlor							
1	3.053	3.053	0.000	4162620	0.0500	0.0439	
2	3.633	3.633	0.000	6660816	0.0500	0.0506	
						RPD = 14.13	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
10 Aldrin							
1	3.300	3.300	0.000	3368496	0.0500	0.0381	
2	3.947	3.947	0.000	5048927	0.0500	0.0391	
						RPD = 2.69	
13 Heptachlor epoxide							
1	3.840	3.840	0.000	4215785	0.0500	0.0484	
2	4.520	4.520	0.000	5599244	0.0500	0.0512	
						RPD = 5.62	
14 gamma-Chlordane							
1	3.960	3.960	0.000	4523551	0.0500	0.0437	
2	4.717	4.717	0.000	5812505	0.0500	0.0487	
						RPD = 11.00	
15 alpha-Chlordane							
1	4.090	4.090	0.000	4412197	0.0500	0.0440	
2	4.867	4.867	0.000	5413982	0.0500	0.0486	
						RPD = 10.05	
16 4,4'-DDE							
1	4.183	4.187	-0.004	4255914	0.0500	0.0438	
2	5.047	5.047	0.000	4912831	0.0500	0.0462	
						RPD = 5.32	
18 Endosulfan I							
1	4.220	4.220	0.000	3688527	0.0500	0.0435	
2	4.920	4.920	0.000	4977538	0.0500	0.0510	
						RPD = 15.89	
19 Dieldrin							
1	4.460	4.460	0.000	4085537	0.0500	0.0458	
2	5.200	5.200	0.000	5693713	0.0500	0.0512	
						RPD = 11.13	
20 Endrin							
1	4.693	4.693	0.000	3883558	0.0500	0.0543	
2	5.503	5.503	0.000	4787217	0.0500	0.0546	
						RPD = 0.45	
22 4,4'-DDD							
1	4.790	4.793	-0.003	3589045	0.0500	0.0511	
2	5.633	5.633	0.000	4513954	0.0500	0.0512	
						RPD = 0.25	
23 Endosulfan II							
1	4.920	4.920	0.000	3737793	0.0500	0.0531	
2	5.717	5.717	0.000	4507836	0.0500	0.0502	
						RPD = 5.62	
26 4,4'-DDT							
1	5.080	5.080	0.000	4246991	0.0500	0.0544	
2	5.953	5.953	0.000	4266024	0.0500	0.0468	
						RPD = 14.95	
28 Endrin aldehyde							
1	5.350	5.350	0.000	3682346	0.0500	0.0542	
2	6.053	6.053	0.000	3495631	0.0500	0.0507	
						RPD = 6.70	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
29 Methoxychlor							
1	5.600	5.600	0.000	2255043	0.0500	0.0532	
2	6.640	6.640	0.000	2163781	0.0500	0.0535	
						RPD = 0.59	
30 Endosulfan sulfate							
1	5.793	5.790	0.003	4071285	0.0500	0.0462	
2	6.337	6.337	0.000	3788477	0.0500	0.0476	
						RPD = 2.91	
31 Endrin ketone							
1	6.070	6.067	0.003	4956974	0.0500	0.0480	
2	6.860	6.860	0.000	4542842	0.0500	0.0500	
						RPD = 4.08	

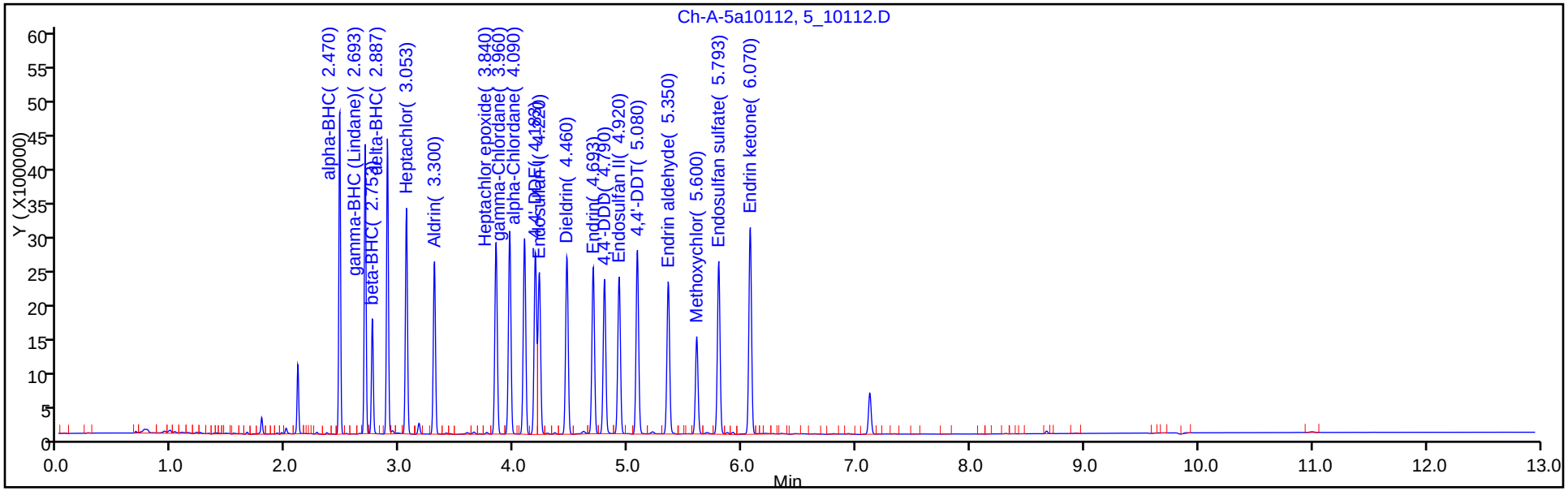
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TestAmerica Buffalo

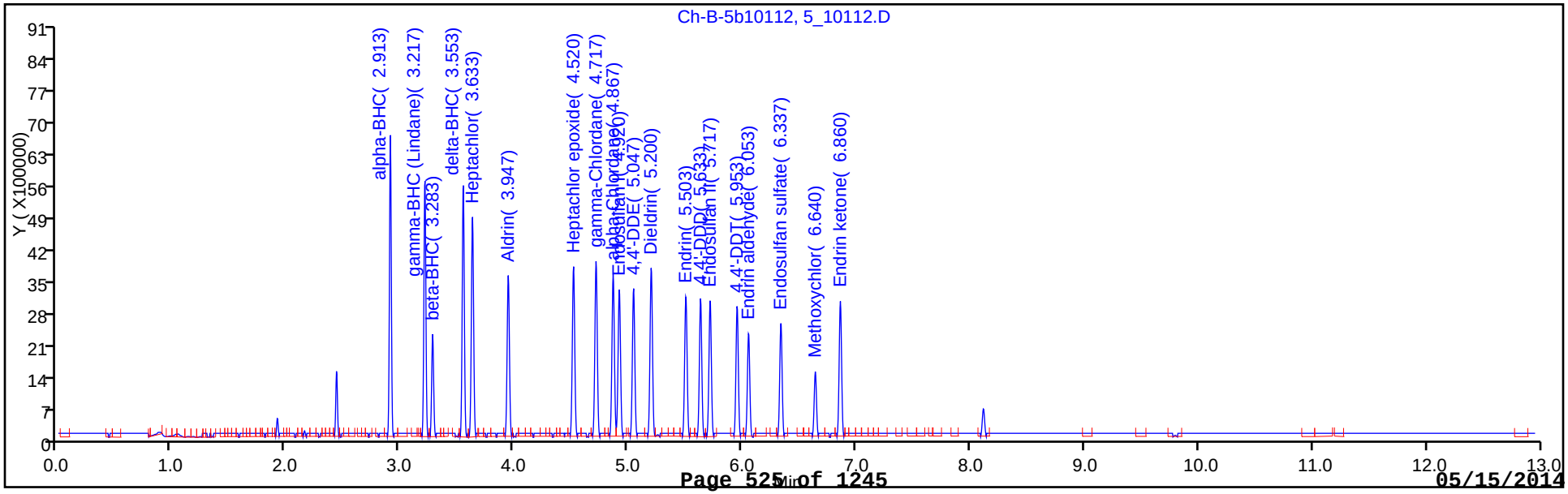
Data File: \\Bufchrom\ChromData\HP6890-05\20140509-31941.b\5_10112.D

Injection Date:	09-May-2014 10:40:03	Instrument ID:	HP6890-5	Operator ID:	buftchrom
Lims ID:	LCS 480-180803/2-A			Worklist Smp#:	6
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8081-5	Limit Group:	GC - 8081B ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 480-180803/2-A

Matrix: Solid Lab File ID: 5_10112.D

Analysis Method: 8081B Date Collected:

Extraction Method: 3510C Date Extracted: 05/08/2014 07:12

Sample wt/vol: 1000(mL) Date Analyzed: 05/09/2014 10:40

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: RTX-CLPII ID: 0.53(mm)

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

Analysis Batch No.: 181145 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
72-20-8	Endrin	0.000546		0.000050	0.0000035
58-89-9	gamma-BHC (Lindane)	0.000497		0.000050	0.0000015
76-44-8	Heptachlor	0.000506		0.000050	0.0000021
1024-57-3	Heptachlor epoxide	0.000512		0.000050	0.0000013
72-43-5	Methoxychlor	0.000535		0.000050	0.0000035

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	72		20-120
877-09-8	Tetrachloro-m-xylene	87		36-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-05\20140509-31941.b\5_10112.D
Lims ID: LCS 480-180803/2-A
Client ID:
Sample Type: LCS
Inject. Date: 09-May-2014 10:40:03 ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, CN10520009
Operator ID: buftchrom Instrument ID: HP6890-5

Method: \\Bufchrom\ChromData\HP6890-05\20140509-31941.b\8081-5.m
Limit Group: GC - 8081B ICAL
Last Update: 12-May-2014 12:38:04 Calib Date: 27-Mar-2014 19:29:41
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP6890-05\20140326-30487.b\5__7098.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK027

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
$ 1 Tetrachloro-m-xylene							
1	2.100	2.103	-0.003	1039053	0.0200	0.0143	
2	2.440	2.443	-0.003	1568100	0.0200	0.0173	
						RPD = 18.75	
$ 2 DCB Decachlorobiphenyl							
1	7.117	7.117	0.000	998002	0.0200	0.0125	
2	8.113	8.113	0.000	1017934	0.0200	0.0145	
						RPD = 14.31	
4 alpha-BHC							
1	2.470	2.470	0.000	5000621	0.0500	0.0387	
2	2.913	2.913	0.000	7595222	0.0500	0.0492	
						RPD = 23.79	
6 gamma-BHC (Lindane)							
1	2.693	2.693	0.000	4718443	0.0500	0.0409	
2	3.217	3.217	0.000	6909517	0.0500	0.0497	
						RPD = 19.63	
7 beta-BHC							
1	2.753	2.757	-0.004	1909032	0.0500	0.0436	
2	3.283	3.283	0.000	2810058	0.0500	0.0520	
						RPD = 17.53	
8 delta-BHC							
1	2.887	2.890	-0.003	4948864	0.0500	0.0422	
2	3.553	3.553	0.000	7113784	0.0500	0.0504	
						RPD = 17.60	
9 Heptachlor							
1	3.053	3.053	0.000	4162620	0.0500	0.0439	
2	3.633	3.633	0.000	6660816	0.0500	0.0506	
						RPD = 14.13	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
10 Aldrin							
1	3.300	3.300	0.000	3368496	0.0500	0.0381	
2	3.947	3.947	0.000	5048927	0.0500	0.0391	
						RPD = 2.69	
13 Heptachlor epoxide							
1	3.840	3.840	0.000	4215785	0.0500	0.0484	
2	4.520	4.520	0.000	5599244	0.0500	0.0512	
						RPD = 5.62	
14 gamma-Chlordane							
1	3.960	3.960	0.000	4523551	0.0500	0.0437	
2	4.717	4.717	0.000	5812505	0.0500	0.0487	
						RPD = 11.00	
15 alpha-Chlordane							
1	4.090	4.090	0.000	4412197	0.0500	0.0440	
2	4.867	4.867	0.000	5413982	0.0500	0.0486	
						RPD = 10.05	
16 4,4'-DDE							
1	4.183	4.187	-0.004	4255914	0.0500	0.0438	
2	5.047	5.047	0.000	4912831	0.0500	0.0462	
						RPD = 5.32	
18 Endosulfan I							
1	4.220	4.220	0.000	3688527	0.0500	0.0435	
2	4.920	4.920	0.000	4977538	0.0500	0.0510	
						RPD = 15.89	
19 Dieldrin							
1	4.460	4.460	0.000	4085537	0.0500	0.0458	
2	5.200	5.200	0.000	5693713	0.0500	0.0512	
						RPD = 11.13	
20 Endrin							
1	4.693	4.693	0.000	3883558	0.0500	0.0543	
2	5.503	5.503	0.000	4787217	0.0500	0.0546	
						RPD = 0.45	
22 4,4'-DDD							
1	4.790	4.793	-0.003	3589045	0.0500	0.0511	
2	5.633	5.633	0.000	4513954	0.0500	0.0512	
						RPD = 0.25	
23 Endosulfan II							
1	4.920	4.920	0.000	3737793	0.0500	0.0531	
2	5.717	5.717	0.000	4507836	0.0500	0.0502	
						RPD = 5.62	
26 4,4'-DDT							
1	5.080	5.080	0.000	4246991	0.0500	0.0544	
2	5.953	5.953	0.000	4266024	0.0500	0.0468	
						RPD = 14.95	
28 Endrin aldehyde							
1	5.350	5.350	0.000	3682346	0.0500	0.0542	
2	6.053	6.053	0.000	3495631	0.0500	0.0507	
						RPD = 6.70	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
29 Methoxychlor							
1	5.600	5.600	0.000	2255043	0.0500	0.0532	
2	6.640	6.640	0.000	2163781	0.0500	0.0535	
						RPD = 0.59	
30 Endosulfan sulfate							
1	5.793	5.790	0.003	4071285	0.0500	0.0462	
2	6.337	6.337	0.000	3788477	0.0500	0.0476	
						RPD = 2.91	
31 Endrin ketone							
1	6.070	6.067	0.003	4956974	0.0500	0.0480	
2	6.860	6.860	0.000	4542842	0.0500	0.0500	
						RPD = 4.08	

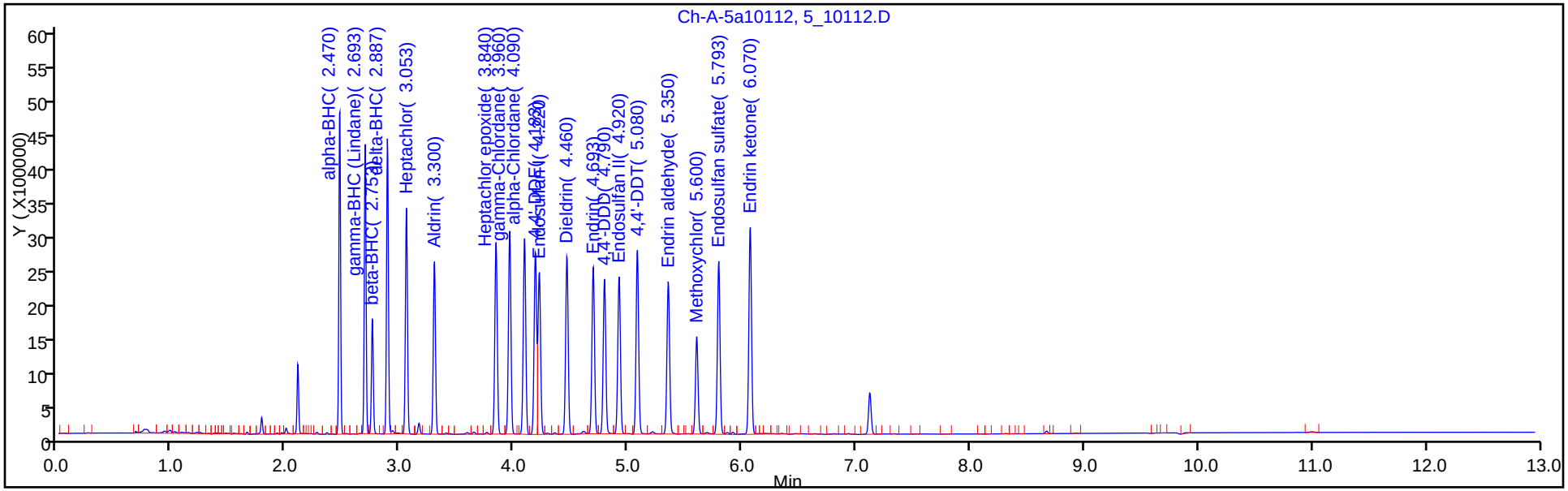
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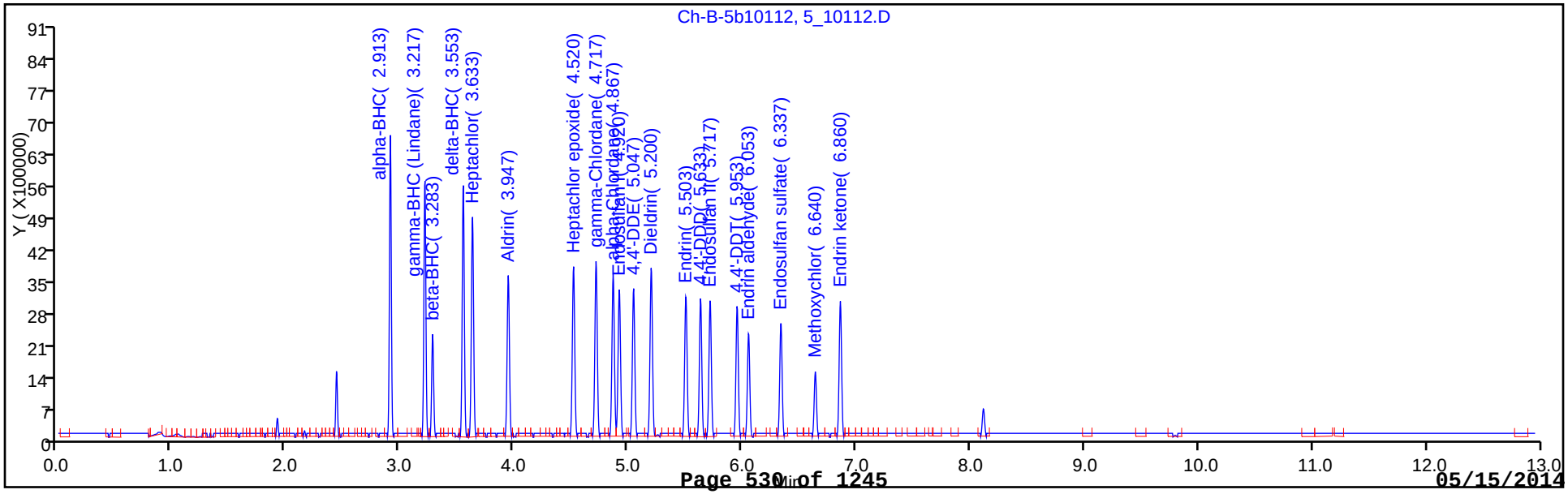
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Injection Date:	09-May-2014 10:40:03	Instrument ID:	HP6890-5	Operator ID:	buftchrom
Lims ID:	LCS 480-180803/2-A			Worklist Smp#:	6
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8081-5	Limit Group:	GC - 8081B ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1

SDG No.:

Client Sample ID: Lab Sample ID: LCSD 480-180803/3-A

Matrix: Solid Lab File ID: 5_10113.D

Analysis Method: 8081B Date Collected:

Extraction Method: 3510C Date Extracted: 05/08/2014 07:12

Sample wt/vol: 1000(mL) Date Analyzed: 05/09/2014 10:57

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: RTX-CLPI ID: 0.53(mm)

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

Analysis Batch No.: 181145 Units: mg/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	34		20-120
877-09-8	Tetrachloro-m-xylene	74		36-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-05\20140509-31941.b\5_10113.D
Lims ID: LCSD 480-180803/3-A
Client ID:
Sample Type: LCSD
Inject. Date: 09-May-2014 10:57:31 ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, CN10520009
Operator ID: buftchrom Instrument ID: HP6890-5

Method: \\Bufchrom\ChromData\HP6890-05\20140509-31941.b\8081-5.m
Limit Group: GC - 8081B ICAL
Last Update: 12-May-2014 12:38:04 Calib Date: 27-Mar-2014 19:29:41
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP6890-05\20140326-30487.b\5__7098.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK027

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
$ 1 Tetrachloro-m-xylene							
1	2.103	2.103	0.000	1070603	0.0200	0.0147	
2	2.443	2.443	0.000	1626669	0.0200	0.0179	
						RPD = 19.51	
$ 2 DCB Decachlorobiphenyl							
1	7.117	7.117	0.000	507431	0.0200	0.006824	
2	8.113	8.113	0.000	900448	0.0200	0.0128	
						RPD = 60.98	
4 alpha-BHC							
1	2.470	2.470	0.000	5004896	0.0500	0.0387	
2	2.913	2.913	0.000	7642260	0.0500	0.0495	
						RPD = 24.30	
6 gamma-BHC (Lindane)							
1	2.693	2.693	0.000	4738918	0.0500	0.0410	
2	3.217	3.217	0.000	6967530	0.0500	0.0502	
						RPD = 20.03	
7 beta-BHC							
1	2.757	2.757	0.000	1923994	0.0500	0.0440	
2	3.283	3.283	0.000	2850631	0.0500	0.0528	
						RPD = 18.18	
8 delta-BHC							
1	2.887	2.890	-0.003	4926290	0.0500	0.0420	
2	3.553	3.553	0.000	7163907	0.0500	0.0507	
						RPD = 18.72	
9 Heptachlor							
1	3.053	3.053	0.000	4093490	0.0500	0.0432	
2	3.633	3.633	0.000	6518611	0.0500	0.0495	
						RPD = 13.64	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
10 Aldrin							
1	3.300	3.300	0.000	3558508	0.0500	0.0402	
2	3.947	3.947	0.000	5324708	0.0500	0.0412	
						RPD = 2.58	
13 Heptachlor epoxide							
1	3.840	3.840	0.000	4201557	0.0500	0.0483	
2	4.520	4.520	0.000	5618414	0.0500	0.0514	
						RPD = 6.29	
14 gamma-Chlordane							
1	3.960	3.960	0.000	4479268	0.0500	0.0432	
2	4.717	4.717	0.000	5712923	0.0500	0.0479	
						RPD = 10.27	
15 alpha-Chlordane							
1	4.090	4.090	0.000	4338470	0.0500	0.0432	
2	4.867	4.867	0.000	5291093	0.0500	0.0475	
						RPD = 9.45	
16 4,4'-DDE							
1	4.183	4.187	-0.004	4112626	0.0500	0.0424	
2	5.047	5.047	0.000	4743158	0.0500	0.0446	
						RPD = 5.21	
18 Endosulfan I							
1	4.220	4.220	0.000	3686902	0.0500	0.0435	
2	4.920	4.920	0.000	4998785	0.0500	0.0512	
						RPD = 16.35	
19 Dieldrin							
1	4.460	4.460	0.000	4064483	0.0500	0.0456	
2	5.200	5.200	0.000	5671001	0.0500	0.0510	
						RPD = 11.25	
20 Endrin							
1	4.693	4.693	0.000	3842701	0.0500	0.0538	
2	5.503	5.503	0.000	4835594	0.0500	0.0551	
						RPD = 2.49	
22 4,4'-DDD							
1	4.790	4.793	-0.003	3461101	0.0500	0.0493	
2	5.633	5.633	0.000	4390680	0.0500	0.0498	
						RPD = 1.08	
23 Endosulfan II							
1	4.920	4.920	0.000	3717141	0.0500	0.0528	
2	5.717	5.717	0.000	4514655	0.0500	0.0502	
						RPD = 4.92	
26 4,4'-DDT							
1	5.077	5.080	-0.003	4042593	0.0500	0.0518	
2	5.953	5.953	0.000	4067142	0.0500	0.0447	
						RPD = 14.79	
28 Endrin aldehyde							
1	5.350	5.350	0.000	3696795	0.0500	0.0545	
2	6.053	6.053	0.000	3533988	0.0500	0.0513	
						RPD = 6.01	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
29 Methoxychlor							
1	5.600	5.600	0.000	2189817	0.0500	0.0516	
2	6.640	6.640	0.000	2131319	0.0500	0.0527	
						RPD = 2.06	
30 Endosulfan sulfate							
1	5.790	5.790	0.000	4100332	0.0500	0.0465	
2	6.337	6.337	0.000	3846848	0.0500	0.0483	
						RPD = 3.70	
31 Endrin ketone							
1	6.067	6.067	0.000	4887907	0.0500	0.0473	
2	6.860	6.860	0.000	4542878	0.0500	0.0500	
						RPD = 5.50	

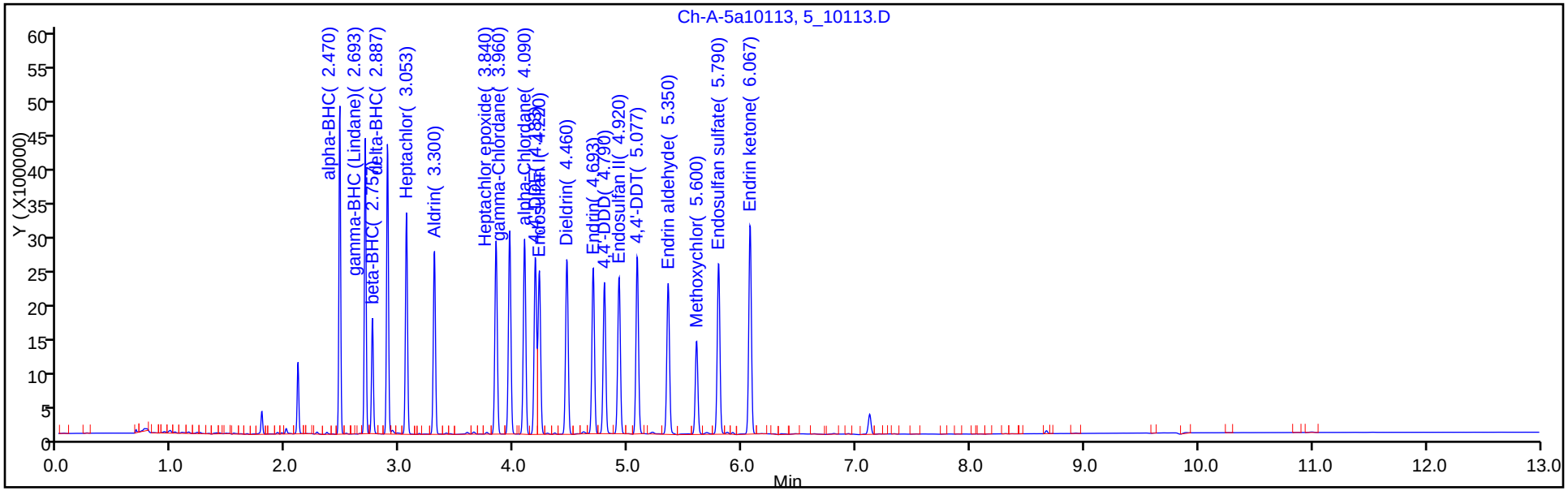
Report Date: 12-May-2014 12:38:11 Chrom Revision: 2.2 14-Apr-2014 13:40:08

TestAmerica Buffalo

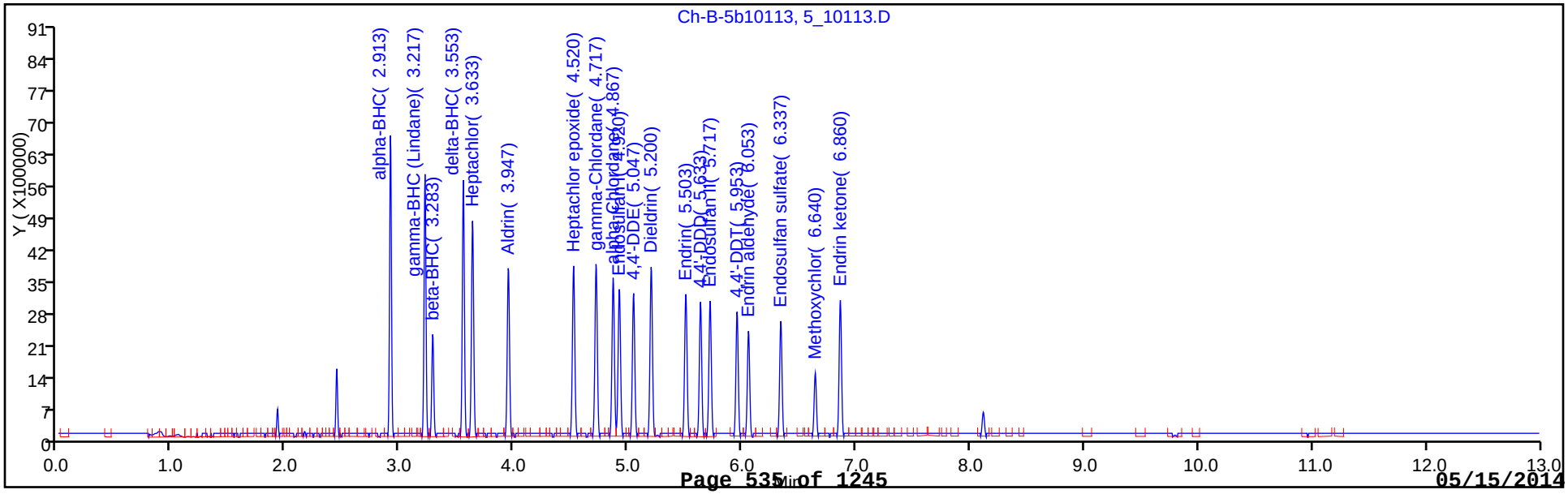
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Injection Date:	09-May-2014 10:57:31	Instrument ID:	HP6890-5	Operator ID:	buftchrom
Lims ID:	LCSD 480-180803/3-A			Worklist Smp#:	7
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8081-5	Limit Group:	GC - 8081B ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-58807-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCSD 480-180803/3-A

Matrix: Solid | Lab File ID: 5_10113.D

Analysis Method: 8081B | Date Collected:

Extraction Method: 3510C | Date Extracted: 05/08/2014 07:12

Sample wt/vol: 1000(mL) | Date Analyzed: 05/09/2014 10:57

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RTX-CLPII ID: 0.53(mm)

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

Analysis Batch No.: 181145 | Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
72-20-8	Endrin	0.000551		0.000050	0.0000035
58-89-9	gamma-BHC (Lindane)	0.000502		0.000050	0.0000015
76-44-8	Heptachlor	0.000495		0.000050	0.0000021
1024-57-3	Heptachlor epoxide	0.000514		0.000050	0.0000013
72-43-5	Methoxychlor	0.000527		0.000050	0.0000035

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	64		20-120
877-09-8	Tetrachloro-m-xylene	90		36-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-05\20140509-31941.b\5_10113.D
Lims ID: LCSD 480-180803/3-A
Client ID:
Sample Type: LCSD
Inject. Date: 09-May-2014 10:57:31 ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, CN10520009
Operator ID: buftchrom Instrument ID: HP6890-5

Method: \\Bufchrom\ChromData\HP6890-05\20140509-31941.b\8081-5.m
Limit Group: GC - 8081B ICAL
Last Update: 12-May-2014 12:38:04 Calib Date: 27-Mar-2014 19:29:41
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP6890-05\20140326-30487.b\5__7098.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK027

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
$ 1 Tetrachloro-m-xylene							
1	2.103	2.103	0.000	1070603	0.0200	0.0147	
2	2.443	2.443	0.000	1626669	0.0200	0.0179	
						RPD = 19.51	
$ 2 DCB Decachlorobiphenyl							
1	7.117	7.117	0.000	507431	0.0200	0.006824	
2	8.113	8.113	0.000	900448	0.0200	0.0128	
						RPD = 60.98	
4 alpha-BHC							
1	2.470	2.470	0.000	5004896	0.0500	0.0387	
2	2.913	2.913	0.000	7642260	0.0500	0.0495	
						RPD = 24.30	
6 gamma-BHC (Lindane)							
1	2.693	2.693	0.000	4738918	0.0500	0.0410	
2	3.217	3.217	0.000	6967530	0.0500	0.0502	
						RPD = 20.03	
7 beta-BHC							
1	2.757	2.757	0.000	1923994	0.0500	0.0440	
2	3.283	3.283	0.000	2850631	0.0500	0.0528	
						RPD = 18.18	
8 delta-BHC							
1	2.887	2.890	-0.003	4926290	0.0500	0.0420	
2	3.553	3.553	0.000	7163907	0.0500	0.0507	
						RPD = 18.72	
9 Heptachlor							
1	3.053	3.053	0.000	4093490	0.0500	0.0432	
2	3.633	3.633	0.000	6518611	0.0500	0.0495	
						RPD = 13.64	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
10 Aldrin							
1	3.300	3.300	0.000	3558508	0.0500	0.0402	
2	3.947	3.947	0.000	5324708	0.0500	0.0412	
						RPD = 2.58	
13 Heptachlor epoxide							
1	3.840	3.840	0.000	4201557	0.0500	0.0483	
2	4.520	4.520	0.000	5618414	0.0500	0.0514	
						RPD = 6.29	
14 gamma-Chlordane							
1	3.960	3.960	0.000	4479268	0.0500	0.0432	
2	4.717	4.717	0.000	5712923	0.0500	0.0479	
						RPD = 10.27	
15 alpha-Chlordane							
1	4.090	4.090	0.000	4338470	0.0500	0.0432	
2	4.867	4.867	0.000	5291093	0.0500	0.0475	
						RPD = 9.45	
16 4,4'-DDE							
1	4.183	4.187	-0.004	4112626	0.0500	0.0424	
2	5.047	5.047	0.000	4743158	0.0500	0.0446	
						RPD = 5.21	
18 Endosulfan I							
1	4.220	4.220	0.000	3686902	0.0500	0.0435	
2	4.920	4.920	0.000	4998785	0.0500	0.0512	
						RPD = 16.35	
19 Dieldrin							
1	4.460	4.460	0.000	4064483	0.0500	0.0456	
2	5.200	5.200	0.000	5671001	0.0500	0.0510	
						RPD = 11.25	
20 Endrin							
1	4.693	4.693	0.000	3842701	0.0500	0.0538	
2	5.503	5.503	0.000	4835594	0.0500	0.0551	
						RPD = 2.49	
22 4,4'-DDD							
1	4.790	4.793	-0.003	3461101	0.0500	0.0493	
2	5.633	5.633	0.000	4390680	0.0500	0.0498	
						RPD = 1.08	
23 Endosulfan II							
1	4.920	4.920	0.000	3717141	0.0500	0.0528	
2	5.717	5.717	0.000	4514655	0.0500	0.0502	
						RPD = 4.92	
26 4,4'-DDT							
1	5.077	5.080	-0.003	4042593	0.0500	0.0518	
2	5.953	5.953	0.000	4067142	0.0500	0.0447	
						RPD = 14.79	
28 Endrin aldehyde							
1	5.350	5.350	0.000	3696795	0.0500	0.0545	
2	6.053	6.053	0.000	3533988	0.0500	0.0513	
						RPD = 6.01	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
29 Methoxychlor							
1	5.600	5.600	0.000	2189817	0.0500	0.0516	
2	6.640	6.640	0.000	2131319	0.0500	0.0527	
						RPD = 2.06	
30 Endosulfan sulfate							
1	5.790	5.790	0.000	4100332	0.0500	0.0465	
2	6.337	6.337	0.000	3846848	0.0500	0.0483	
						RPD = 3.70	
31 Endrin ketone							
1	6.067	6.067	0.000	4887907	0.0500	0.0473	
2	6.860	6.860	0.000	4542878	0.0500	0.0500	
						RPD = 5.50	

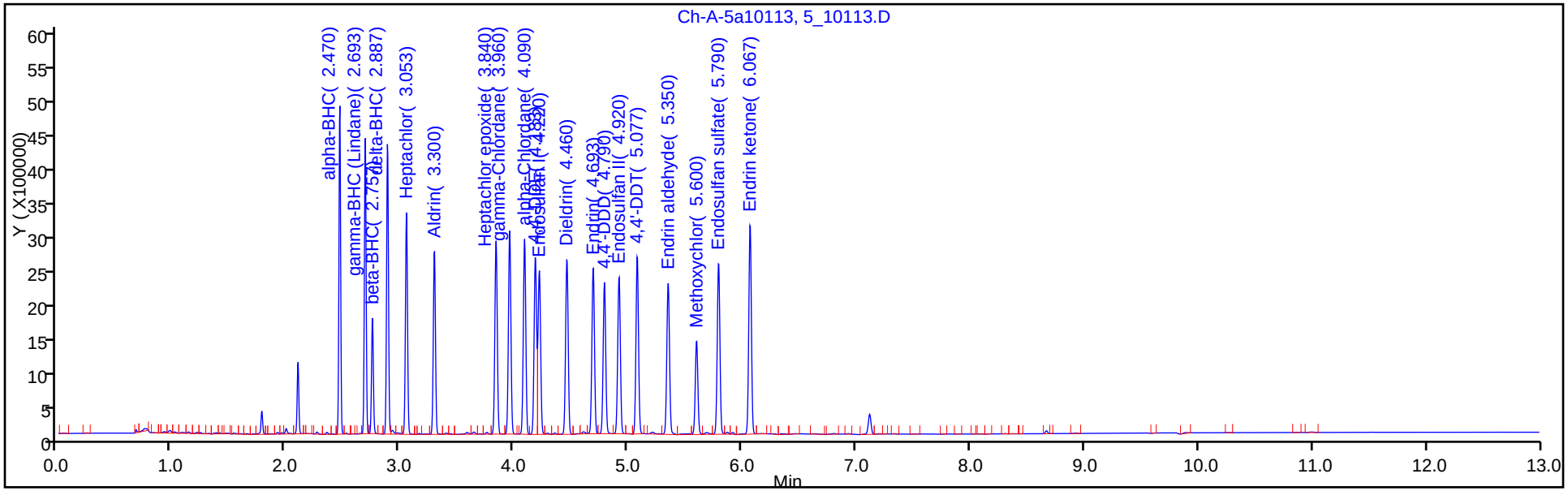
Report Date: 12-May-2014 12:38:11 Chrom Revision: 2.2 14-Apr-2014 13:40:08

TestAmerica Buffalo

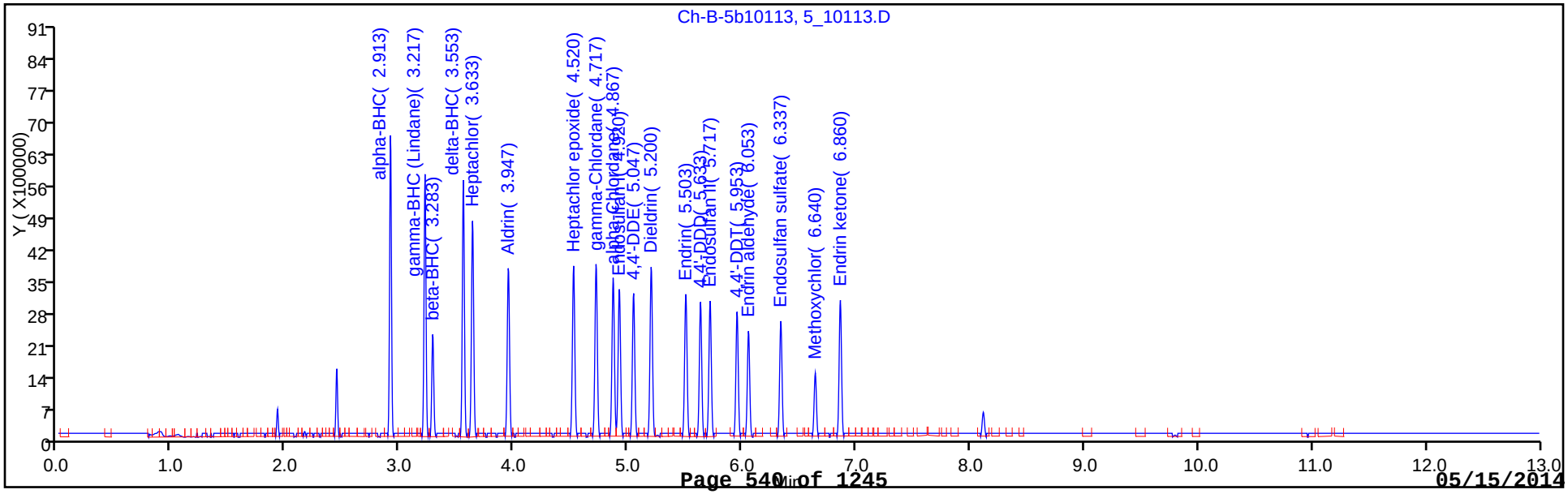
Data File: \\Bufchrom\ChromData\HP6890-05\20140509-31941.b\5_10113.D

Injection Date:	09-May-2014 10:57:31	Instrument ID:	HP6890-5	Operator ID:	buftchrom
Lims ID:	LCSD 480-180803/3-A			Worklist Smp#:	7
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8081-5	Limit Group:	GC - 8081B ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



GC SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1

SDG No.:

Instrument ID: HP6890-5 Start Date: 03/26/2014 13:21

Analysis Batch Number: 172072 End Date: 03/27/2014 19:47

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
STD 480-172072/6 IC		03/26/2014 13:21	1	5__7073.D	RTX-CLPI 0.53(mm)
STD 480-172072/6 IC		03/26/2014 13:21	1	5__7073.D	RTX-CLPII 0.53(mm)
STD 480-172072/7 IC		03/26/2014 13:39	1	5__7074.D	RTX-CLPI 0.53(mm)
STD 480-172072/7 IC		03/26/2014 13:39	1	5__7074.D	RTX-CLPII 0.53(mm)
STD 480-172072/8 IC		03/26/2014 13:56	1	5__7075.D	RTX-CLPI 0.53(mm)
STD 480-172072/8 IC		03/26/2014 13:56	1	5__7075.D	RTX-CLPII 0.53(mm)
STD 480-172072/9 IC		03/26/2014 14:14	1	5__7076.D	RTX-CLPI 0.53(mm)
STD 480-172072/9 IC		03/26/2014 14:14	1	5__7076.D	RTX-CLPII 0.53(mm)
STD 480-172072/10 IC		03/26/2014 14:32	1	5__7077.D	RTX-CLPI 0.53(mm)
STD 480-172072/10 IC		03/26/2014 14:32	1	5__7077.D	RTX-CLPII 0.53(mm)
ICV 480-172072/11		03/26/2014 14:49	1		RTX-CLPI 0.53(mm)
ICV 480-172072/11		03/26/2014 14:49	1		RTX-CLPII 0.53(mm)
STD 480-172072/15 IC		03/27/2014 14:46	1	5__7082.D	RTX-CLPI 0.53(mm)
STD 480-172072/15 IC		03/27/2014 14:46	1	5__7082.D	RTX-CLPII 0.53(mm)
STD 480-172072/16 IC		03/27/2014 15:04	1	5__7083.D	RTX-CLPI 0.53(mm)
STD 480-172072/16 IC		03/27/2014 15:04	1	5__7083.D	RTX-CLPII 0.53(mm)
STD 480-172072/17 IC		03/27/2014 15:22	1	5__7084.D	RTX-CLPI 0.53(mm)
STD 480-172072/17 IC		03/27/2014 15:22	1	5__7084.D	RTX-CLPII 0.53(mm)
STD 480-172072/18 IC		03/27/2014 15:39	1	5__7085.D	RTX-CLPI 0.53(mm)
STD 480-172072/18 IC		03/27/2014 15:39	1	5__7085.D	RTX-CLPII 0.53(mm)
STD 480-172072/19 IC		03/27/2014 15:57	1	5__7086.D	RTX-CLPI 0.53(mm)
STD 480-172072/19 IC		03/27/2014 15:57	1	5__7086.D	RTX-CLPII 0.53(mm)
ICV 480-172072/20		03/27/2014 16:15	1		RTX-CLPI 0.53(mm)
ICV 480-172072/20		03/27/2014 16:15	1		RTX-CLPII 0.53(mm)
STD 480-172072/21 IC		03/27/2014 16:32	1		RTX-CLPI 0.53(mm)
STD 480-172072/21 IC		03/27/2014 16:32	1		RTX-CLPII 0.53(mm)
STD 480-172072/22 IC		03/27/2014 16:50	1		RTX-CLPI 0.53(mm)
STD 480-172072/22 IC		03/27/2014 16:50	1		RTX-CLPII 0.53(mm)
STD 480-172072/23 IC		03/27/2014 17:08	1		RTX-CLPI 0.53(mm)
STD 480-172072/23 IC		03/27/2014 17:08	1		RTX-CLPII 0.53(mm)
STD 480-172072/24 IC		03/27/2014 17:25	1		RTX-CLPI 0.53(mm)
STD 480-172072/24 IC		03/27/2014 17:25	1		RTX-CLPII 0.53(mm)
STD 480-172072/25 IC		03/27/2014 17:43	1		RTX-CLPI 0.53(mm)
STD 480-172072/25 IC		03/27/2014 17:43	1		RTX-CLPII 0.53(mm)
ICV 480-172072/26		03/27/2014 18:01	1		RTX-CLPI 0.53(mm)
ICV 480-172072/26		03/27/2014 18:01	1		RTX-CLPII 0.53(mm)
STD 480-172072/27 IC		03/27/2014 18:19	1	5__7094.D	RTX-CLPI 0.53(mm)
STD 480-172072/27 IC		03/27/2014 18:19	1	5__7094.D	RTX-CLPII 0.53(mm)
STD 480-172072/28 IC		03/27/2014 18:36	1	5__7095.D	RTX-CLPI 0.53(mm)
STD 480-172072/28 IC		03/27/2014 18:36	1	5__7095.D	RTX-CLPII 0.53(mm)
STD 480-172072/29 IC		03/27/2014 18:54	1	5__7096.D	RTX-CLPI 0.53(mm)
STD 480-172072/29 IC		03/27/2014 18:54	1	5__7096.D	RTX-CLPII 0.53(mm)
STD 480-172072/30 IC		03/27/2014 19:12	1	5__7097.D	RTX-CLPI 0.53(mm)
STD 480-172072/30 IC		03/27/2014 19:12	1	5__7097.D	RTX-CLPII 0.53(mm)
STD 480-172072/31 IC		03/27/2014 19:29	1	5__7098.D	RTX-CLPI 0.53(mm)

GC SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1

SDG No.:

Instrument ID: HP6890-5 Start Date: 03/26/2014 13:21

Analysis Batch Number: 172072 End Date: 03/27/2014 19:47

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
STD 480-172072/31 IC		03/27/2014 19:29	1	5__7098.D	RTX-CLPII 0.53(mm)
ICV 480-172072/32		03/27/2014 19:47	1		RTX-CLPI 0.53(mm)
ICV 480-172072/32		03/27/2014 19:47	1		RTX-CLPII 0.53(mm)

GC SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1

SDG No.:

Instrument ID: HP6890-5 Start Date: 05/09/2014 09:36

Analysis Batch Number: 181145 End Date: 05/09/2014 16:11

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
PEM 480-181145/3		05/09/2014 09:36	1	5_10109.D	RTX-CLPI 0.53(mm)
PEM 480-181145/3		05/09/2014 09:36	1	5_10109.D	RTX-CLPII 0.53(mm)
CCV 480-181145/4		05/09/2014 09:54	1	5_10110.D	RTX-CLPI 0.53(mm)
CCV 480-181145/4		05/09/2014 09:54	1	5_10110.D	RTX-CLPII 0.53(mm)
MB 480-180803/1-A		05/09/2014 10:22	1	5_10111.D	RTX-CLPI 0.53(mm)
MB 480-180803/1-A		05/09/2014 10:22	1	5_10111.D	RTX-CLPII 0.53(mm)
LCS 480-180803/2-A		05/09/2014 10:40	1	5_10112.D	RTX-CLPI 0.53(mm)
LCS 480-180803/2-A		05/09/2014 10:40	1	5_10112.D	RTX-CLPII 0.53(mm)
LCSD 480-180803/3-A		05/09/2014 10:57	1	5_10113.D	RTX-CLPI 0.53(mm)
LCSD 480-180803/3-A		05/09/2014 10:57	1	5_10113.D	RTX-CLPII 0.53(mm)
LB 480-180381/1-F		05/09/2014 11:15	1	5_10114.D	RTX-CLPI 0.53(mm)
LB 480-180381/1-F		05/09/2014 11:15	1	5_10114.D	RTX-CLPII 0.53(mm)
ZZZZZ		05/09/2014 11:32	1		RTX-CLPI 0.53(mm)
ZZZZZ		05/09/2014 11:32	1		RTX-CLPII 0.53(mm)
480-58807-1	P1-1(Sed)	05/09/2014 11:50	1	5_10116.D	RTX-CLPI 0.53(mm)
480-58807-1	P1-1(Sed)	05/09/2014 11:50	1	5_10116.D	RTX-CLPII 0.53(mm)
480-58807-2	P1-2(Sed)	05/09/2014 12:07	1	5_10117.D	RTX-CLPI 0.53(mm)
480-58807-2	P1-2(Sed)	05/09/2014 12:07	1	5_10117.D	RTX-CLPII 0.53(mm)
480-58807-3	P2-1(Sed)	05/09/2014 12:25	1	5_10118.D	RTX-CLPI 0.53(mm)
480-58807-3	P2-1(Sed)	05/09/2014 12:25	1	5_10118.D	RTX-CLPII 0.53(mm)
480-58807-4	P2-2(Sed)	05/09/2014 12:42	1	5_10119.D	RTX-CLPI 0.53(mm)
480-58807-4	P2-2(Sed)	05/09/2014 12:42	1	5_10119.D	RTX-CLPII 0.53(mm)
CCV 480-181145/15		05/09/2014 13:17	1	5_10121.D	RTX-CLPI 0.53(mm)
CCV 480-181145/15		05/09/2014 13:17	1	5_10121.D	RTX-CLPII 0.53(mm)
CCV 480-181145/16		05/09/2014 13:35	1	5_10122.D	RTX-CLPI 0.53(mm)
CCV 480-181145/16		05/09/2014 13:35	1	5_10122.D	RTX-CLPII 0.53(mm)
ZZZZZ		05/09/2014 14:08	1		RTX-CLPI 0.53(mm)
ZZZZZ		05/09/2014 14:08	1		RTX-CLPII 0.53(mm)
CCV 480-181145/23		05/09/2014 15:53	1	5_10129.D	RTX-CLPI 0.53(mm)
CCV 480-181145/23		05/09/2014 15:53	1	5_10129.D	RTX-CLPII 0.53(mm)
CCV 480-181145/24		05/09/2014 16:11	1		RTX-CLPI 0.53(mm)
CCV 480-181145/24		05/09/2014 16:11	1		RTX-CLPII 0.53(mm)

GC SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1

SDG No.:

Batch Number: 180381 Batch Start Date: 05/06/14 12:10 Batch Analyst: Gentner, Taylor R

Batch Method: 1311 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	EFD_PartSizeRed	EFD_SampleWeigh t	EFD_VolumeWater Add	EFD_InitialpH
LB 480-180381/1		1311, 3510C, 8081B			2000 mL				
480-58807-B-1	P1-1(Sed)	1311, 3510C, 8081B	P	100.80 g	2000 mL	No	5.27 g	96.5 mL	7.52 SU
480-58807-C-2	P1-2(Sed)	1311, 3510C, 8081B	P	100.86 g	2000 mL	No	5.75 g	96.5 mL	7.41 SU
480-58807-B-3	P2-1(Sed)	1311, 3510C, 8081B	P	100.48 g	2000 mL	No	5.20 g	96.5 mL	6.79 SU
480-58807-C-4	P2-2(Sed)	1311, 3510C, 8081B	P	100.59 g	2000 mL	No	5.42 g	96.5 mL	6.60 SU

Lab Sample ID	Client Sample ID	Method Chain	Basis	EFD_AddHClpH>5	EFD_HeatHeld	EFD_SecondpHChe ck	ExtractionFluid One	ExtractionFluid Two	PartSizeRed
LB 480-180381/1		1311, 3510C, 8081B					Yes	No	
480-58807-B-1	P1-1(Sed)	1311, 3510C, 8081B	P	3.5 mL	Yes	1.27 SU	Yes	No	No
480-58807-C-2	P1-2(Sed)	1311, 3510C, 8081B	P	3.5 mL	Yes	1.29 SU	Yes	No	No
480-58807-B-3	P2-1(Sed)	1311, 3510C, 8081B	P	3.5 mL	Yes	1.17 SU	Yes	No	No
480-58807-C-4	P2-2(Sed)	1311, 3510C, 8081B	P	3.5 mL	Yes	1.21 SU	Yes	No	No

Lab Sample ID	Client Sample ID	Method Chain	Basis	VesselNumber	FiltCompDate	FiltCompTime	LeachatepH	LeachVolume	TCLP%Solids
LB 480-180381/1		1311, 3510C, 8081B		Cool	5/7/14	10:20	4.90 SU	1000/800 mL	
480-58807-B-1	P1-1(Sed)	1311, 3510C, 8081B	P	JK	5/7/14	10:20	4.89 SU	1000 mL	100 %
480-58807-C-2	P1-2(Sed)	1311, 3510C, 8081B	P	DC	5/7/14	10:20	4.94 SU	1000 mL	100 %
480-58807-B-3	P2-1(Sed)	1311, 3510C, 8081B	P	Co	5/7/14	10:20	4.95 SU	1000 mL	100 %
480-58807-C-4	P2-2(Sed)	1311, 3510C, 8081B	P	LOL	5/7/14	10:20	4.91 SU	1000 mL	100 %

Lab Sample ID	Client Sample ID	Method Chain	Basis	ExtractFluid					
LB 480-180381/1		1311, 3510C, 8081B		1					

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

GC SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1

SDG No.:

Batch Number: 180381 Batch Start Date: 05/06/14 12:10 Batch Analyst: Gentner, Taylor R

Batch Method: 1311 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	ExtractFluid					
480-58807-B-1	P1-1(Sed)	1311, 3510C, 8081B	P	1					
480-58807-C-2	P1-2(Sed)	1311, 3510C, 8081B	P	1					
480-58807-B-3	P2-1(Sed)	1311, 3510C, 8081B	P	1					
480-58807-C-4	P2-2(Sed)	1311, 3510C, 8081B	P	1					

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

GC SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1

SDG No.:

Batch Number: 180381 Batch Start Date: 05/06/14 12:10 Batch Analyst: Gentner, Taylor R

Batch Method: 1311 Batch End Date:

Batch Notes	
Balance ID	B037067151
pH Buffer 1 ID	1808926 (10)
pH Buffer 2 ID	1808950 (7)
pH Buffer 3 ID	1808949 (4)
pH Buffer 4 ID	1324094 (2)
First End time	07:05
Final Room Temperature	23.00 Celsius
Initial Room Temperature	22.70 Celsius
pH Meter Calibration Slope	97.6%
Room Temperature during Rotation	22.70-23.00 Degrees C
Room Temperature Thermometer ID	122273689
First Start time	15:05
TCLP Fluid 1 ID	2054366
TCLP Fluid 1 pH	4.93
Temperature	23.00 Celsius
Maximum Temperature	23.00 Celsius
Minimum Temperature	22.70 Degrees C
ID number of the thermometer	12227689
Tumbler Rotations per Minute	30 RPM TG 5/6/14
Uncorrected Final Room Temperature	22.90 Celsius
Uncorrected Initial Room Temperature	22.60 Celsius
Uncorrected Room Temperature	22.60-22.90 Celsius
Uncorrected Temperature	22.90 Celsius
Uncorrected Maximum Temperature	22.90 Celsius
Uncorrected Minimum Temperature	22.60 Celsius

Basis	Basis Description
P	TCLP

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

GC SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1

SDG No.:

Batch Number: 180803 Batch Start Date: 05/08/14 07:12 Batch Analyst: Ziemer, Michael C

Batch Method: 3510C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	ReceivedpH	InitialAmount	FinalAmount	O_8081/82surr 00059	O8081pestspik 00021	
MB 480-180803/1		3510C, 8081B		7 SU	1000 mL	10 mL	1 mL		
LCS 480-180803/2		3510C, 8081B		7 SU	1000 mL	10 mL	1 mL	1 mL	
LCSD 480-180803/3		3510C, 8081B		7 SU	1000 mL	10 mL	1 mL	1 mL	
LB 480-180381/1-A		3510C, 8081B		6 SU	250 mL	10 mL	1 mL		
480-58807-B-1-F	P1-1(Sed)	3510C, 8081B	P	6 SU	250 mL	10 mL	1 mL		
480-58807-C-2-F	P1-2(Sed)	3510C, 8081B	P	6 SU	250 mL	10 mL	1 mL		
480-58807-B-3-H	P2-1(Sed)	3510C, 8081B	P	6 SU	250 mL	10 mL	1 mL		
480-58807-C-4-H	P2-2(Sed)	3510C, 8081B	P	6 SU	250 mL	10 mL	1 mL		

Batch Notes	
Balance ID	14552245
Person's name who did the concentration	MZ, MRB, LF
Exchange Solvent Lot #	0000070764
Exchange Solvent Name	Hexane
Na2SO4 Lot Number	27864002
Prep Solvent Lot #	0000073967
Prep Solvent Name	MeCl2
Prep Solvent Volume Used	180 mL
Person's name who did the prep	MZ, MRB
Person's name who witnessed reagent drop	MZ
Analyst who added reagent	MZ
Person who performed Spike	MZ
Person who witnessed spiking	MZ

Basis	Basis Description
P	TCLP

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.: 480-58807-1

SDG No.:

Matrix: Solid Level: Low

GC Column (1): ZB-5 ID: 0.53 (mm) GC Column (2): ZB-35 ID: 0.53 (mm)

Client Sample ID	Lab Sample ID	TCX1 #	TCX2 #	DCB1 #	DCB2 #
P1-1(Sed)	480-58807-1	92	84	109	153
P1-2(Sed)	480-58807-2	95	86	125	105
P2-1(Sed)	480-58807-3	118	110	137	133
P2-2(Sed)	480-58807-4	126	112	140	135
	MB 480-178927/1-A	115	107	133	135
	LCS 480-178927/2-A	141	131	148	144

	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.: 480-58807-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: PE02_49_026.D

Lab ID: LCS 480-178927/2-A Client ID:

COMPOUND	SPIKE ADDED (mg/Kg)	LCS CONCENTRATION (mg/Kg)	LCS % REC	QC LIMITS REC	#
PCB-1016	1.87	2.32	124	51-185	
PCB-1260	1.87	2.28	122	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.: 480-58807-1

SDG No.:

Lab Sample ID: MB 480-178927/1-A

Matrix: Solid Date Extracted: 04/29/2014 12:37

Lab File ID:(1) PE02_49_025.D Lab File ID:(2) PE02_49_025.D

Date Analyzed:(1) 04/30/2014 10:45 Date Analyzed:(2) 04/30/2014 10:45

Instrument ID:(1) PE-02 Instrument ID:(2) PE-02

GC Column:(1) ZB-5 ID: 0.53(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 480-178927/2-A	04/30/2014 11:00	04/30/2014 11:00
P1-1(Sed)	480-58807-1	04/30/2014 14:22	04/30/2014 14:22
P1-2(Sed)	480-58807-2	04/30/2014 14:36	04/30/2014 14:36
P2-1(Sed)	480-58807-3	04/30/2014 14:51	04/30/2014 14:51
P2-2(Sed)	480-58807-4	04/30/2014 15:05	04/30/2014 15:05

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1

SDG No.:

Client Sample ID: P1-1(Sed) Lab Sample ID: 480-58807-1

Instrument ID (1): PE-02 Instrument ID (2): PE-02

Date Analyzed (1): 04/30/2014 14:22 Date Analyzed (2): 04/30/2014 14:22

GC Column (1): ZB-5 ID: 0.53(mm) GC Column (2): ZB-35 ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
PCB-1254	1	1	3.08	3.04	3.10	3.33	2.5	6.8
		2	3.12	3.09	3.15	2.47		
		3	3.24	3.22	3.28	2.00		
		4	3.36	3.34	3.40	2.37		
	2	1	3.58	3.55	3.61	1.63	2.4	
		2	3.67	3.64	3.70	2.06		
		3	3.74	3.72	3.78	3.23		
		4	3.86	3.83	3.89	2.57		
PCB-1260	1	1	3.49	3.47	3.53	2.52	1.3	41.7
		2	3.68	3.66	3.72	0.966		
		3	3.82	3.80	3.86	0.863		
		4	3.95	3.93	3.99	0.983		
	2	1	4.22	4.20	4.26	0.910	0.87	
		2	4.64	4.61	4.67	0.676		
		3	4.68	4.65	4.71	1.03		

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1

SDG No.:

Client Sample ID: P1-2(Sed) Lab Sample ID: 480-58807-2

Instrument ID (1): PE-02 Instrument ID (2): PE-02

Date Analyzed (1): 04/30/2014 14:36 Date Analyzed (2): 04/30/2014 14:36

GC Column (1): ZB-5 ID: 0.53(mm) GC Column (2): ZB-35 ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
PCB-1254	1	2	3.12	3.09	3.15	0.907	0.84	35.4
		3	3.24	3.22	3.28	0.728		
		4	3.36	3.34	3.40	0.872		
	2	1	3.58	3.55	3.61	0.316	0.58	
		2	3.67	3.64	3.70	0.463		
		3	3.74	3.72	3.78	1.04		
		4	3.86	3.83	3.89	0.517		
PCB-1260	1	2	3.68	3.66	3.72	0.440	0.52	34.6
		3	3.82	3.80	3.86	0.493		
		4	3.95	3.93	3.99	0.615		
	2	2	4.66	4.61	4.67	0.919	0.36	
		3	4.68	4.65	4.71	0.159		
		4	4.84	4.82	4.88	0.265		

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 480-178927/2-A

Instrument ID (1): PE-02 Instrument ID (2): PE-02

Date Analyzed (1): 04/30/2014 11:00 Date Analyzed (2): 04/30/2014 11:00

GC Column (1): ZB-5 ID: 0.53(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	2.12	2.09	2.15	2.39	2.32	5.1
		2	2.28	2.25	2.31	2.27		
		3	2.33	2.31	2.37	2.31		
		4	2.59	2.57	2.63	2.31		
	2	1	2.22	2.19	2.25	2.12	2.21	
		2	2.71	2.69	2.75	2.13		
		3	2.79	2.77	2.83	2.24		
		4	2.86	2.83	2.89	2.33		
PCB-1260	1	1	3.49	3.47	3.53	1.96	2.28	2.8
		2	3.69	3.66	3.72	2.48		
		3	3.82	3.80	3.86	2.41		
		4	3.96	3.93	3.99	2.26		
	2	1	4.23	4.20	4.26	2.11	2.34	
		2	4.63	4.61	4.67	2.61		
		3	4.68	4.65	4.71	2.56		
		4	4.84	4.82	4.88	2.09		

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-58807-1

SDG No.:

Client Sample ID: P1-1(Sed) | Lab Sample ID: 480-58807-1

Matrix: Solid | Lab File ID: PE02_49_040.D

Analysis Method: 8082A | Date Collected: 04/25/2014 00:00

Extraction Method: 3550C | Date Extracted: 04/29/2014 12:37

Sample wt/vol: +2.08(g) | Date Analyzed: 04/30/2014 14:22

Con. Extract Vol.: 11(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-5 ID: 0.53(mm)

% Moisture: 15.0 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 179084 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.31	0.061
11104-28-2	PCB-1221	ND		0.31	0.061
11141-16-5	PCB-1232	ND		0.31	0.061
53469-21-9	PCB-1242	ND		0.31	0.061
12672-29-6	PCB-1248	ND		0.31	0.061
11097-69-1	PCB-1254	2.5		0.31	0.15
11096-82-5	PCB-1260	1.3		0.31	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	92		46-175
2051-24-3	DCB Decachlorobiphenyl	109		47-176

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\PE-02\20140430-31599.b\PE02_49_040.D
Lims ID: 480-58807-B-1-A Lab Sample ID: 480-58807-1
Client ID: P1-1(Sed)
Sample Type: Client
Inject. Date: 30-Apr-2014 14:22:28 ALS Bottle#: 0 Worklist Smp#: 90
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name: 480-58699-B-2-E
Misc. Info.: Study: 480-0031599-090 Channel B: I/F Serial#, 680S10042901
Operator ID: buftchrom Instrument ID: PE-02

Method: \\Bufchrom\ChromData\PE-02\20140430-31599.b\PCBS.m
Limit Group: GC - 8082A PCB ICAL
Last Update: 01-May-2014 07:45:24 Calib Date: 23-Jan-2014 15:20:22
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\PE-02\20140123-29005.b\PE02_38_217.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK048

First Level Reviewer: michalej Date: 01-May-2014 07:45:24

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
$ 3 Tetrachloro-m-xylene						M
1	1.433	1.448	-0.015	732205	0.0167	M
2	1.773	1.788	-0.015	495359	0.0152	
					RPD = 9.14	
8 PCB-1254						
1	3.083	3.069	0.014	1052682	0.5353	
1	3.115	3.119	-0.004	1046877	0.3965	
1	3.241	3.247	-0.006	1057439	0.3209	
1	3.363	3.369	-0.006	1173409	0.3804	
		Average of Peak Amounts =			0.4083	
2	3.576	3.581	-0.005	653667	0.2622	
2	3.667	3.671	-0.004	745109	0.3312	
2	3.743	3.748	-0.005	599741	0.5194	
2	3.856	3.860	-0.004	710864	0.4134	
		Average of Peak Amounts =			0.3816	
					RPD = 6.76	
9 PCB-1260						
1	3.489	3.499	-0.010	1721103	0.4042	
1	3.683	3.692	-0.009	282034	0.1553	
1	3.816	3.825	-0.009	917712	0.1387	
1	3.951	3.960	-0.009	447563	0.1580	
		Average of Peak Amounts =			0.2140	
2	4.223	4.232	-0.009	577318	0.1463	
2	4.635	4.636	-0.001	53848	0.1087	
2	4.676	4.683	-0.007	187077	0.1657	
2	0.000	4.845	-4.845	0	0	
		Average of Peak Amounts =			0.1402	
					RPD = 41.67	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
$ 12 DCB Decachlorobiphenyl						M
1	4.553	4.560	-0.007	986263	0.0198	M
2	4.979	4.985	-0.006	870851	0.0278	
					RPD = 33.37	

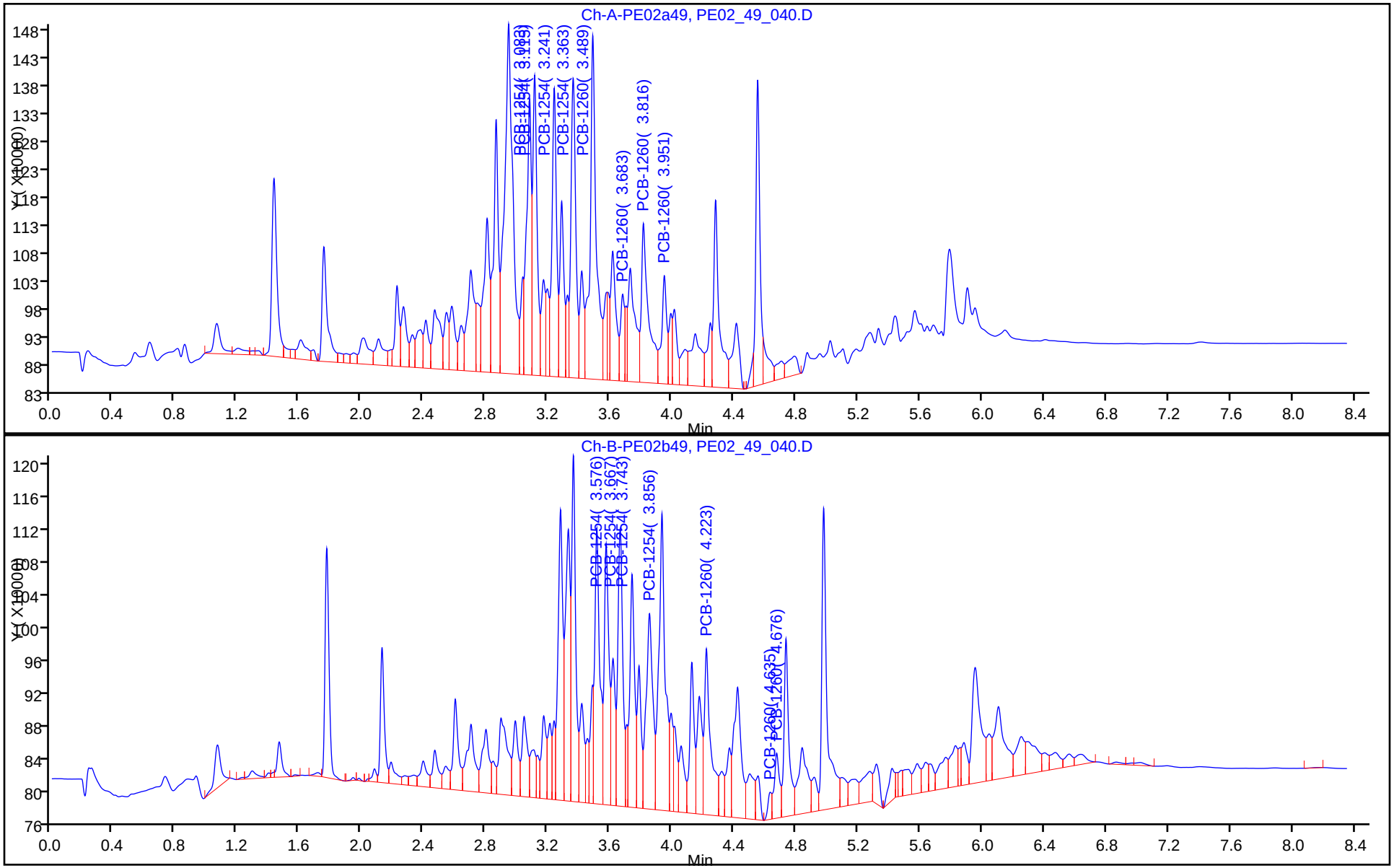
QC Flag Legend

Review Flags
M - Manually Integrated

Report Date: 01-May-2014 07:45:25 Chrom Revision: 2.2 14-Apr-2014 13:40:08

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\PE-02\20140430-31599.b\PE02_49_040.D				
Injection Date:	30-Apr-2014 14:22:28	Instrument ID:	PE-02	Operator ID:	buftchrom
Lims ID:	480-58807-B-1-A	Lab Sample ID:	480-58807-1	Worklist Smp#:	90
Client ID:	P1-1(Sed)				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	PCBS	Limit Group:	GC - 8082A PCB ICAL		



Manual Integration/User Assign Peak Report

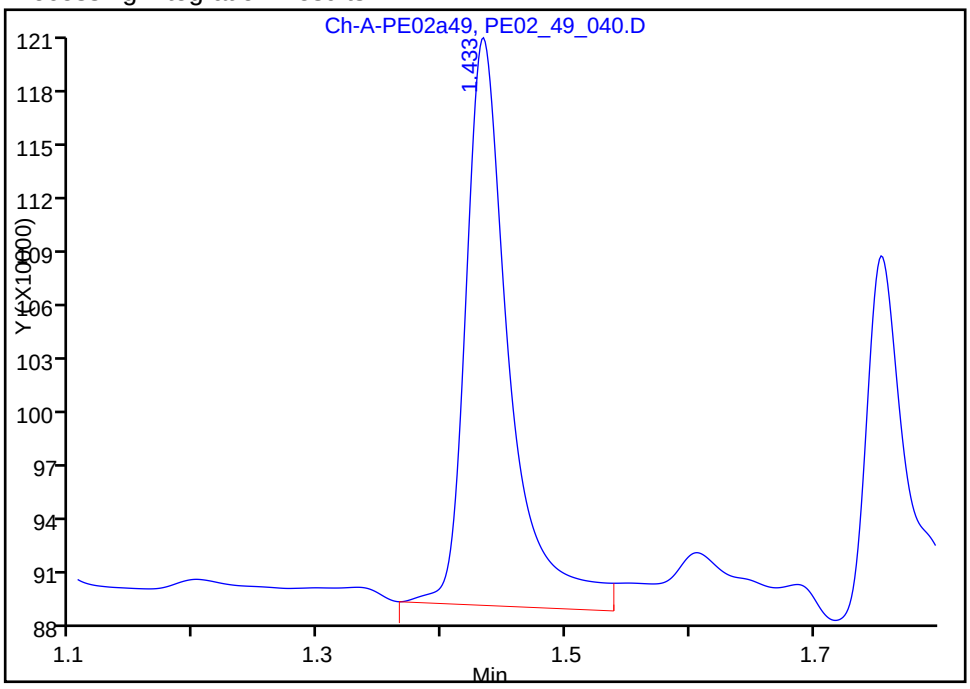
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\PE-02\20140430-31599.b\PE02_49_040.D				
Injection Date:	30-Apr-2014 14:22:28	Instrument ID:	PE-02		
Lims ID:	480-58807-B-1-A	Lab Sample ID:	480-58807-1		
Client ID:	P1-1(Sed)				
Operator ID:	buftchrom	ALS Bottle#:	0	Worklist Smp#:	90
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	PCBS	Limit Group:	GC - 8082A PCB ICAL		
Column:		Detector	Ch-A-7A136		

$ 3 Tetrachloro-m-xylene, CAS: 877-09-8

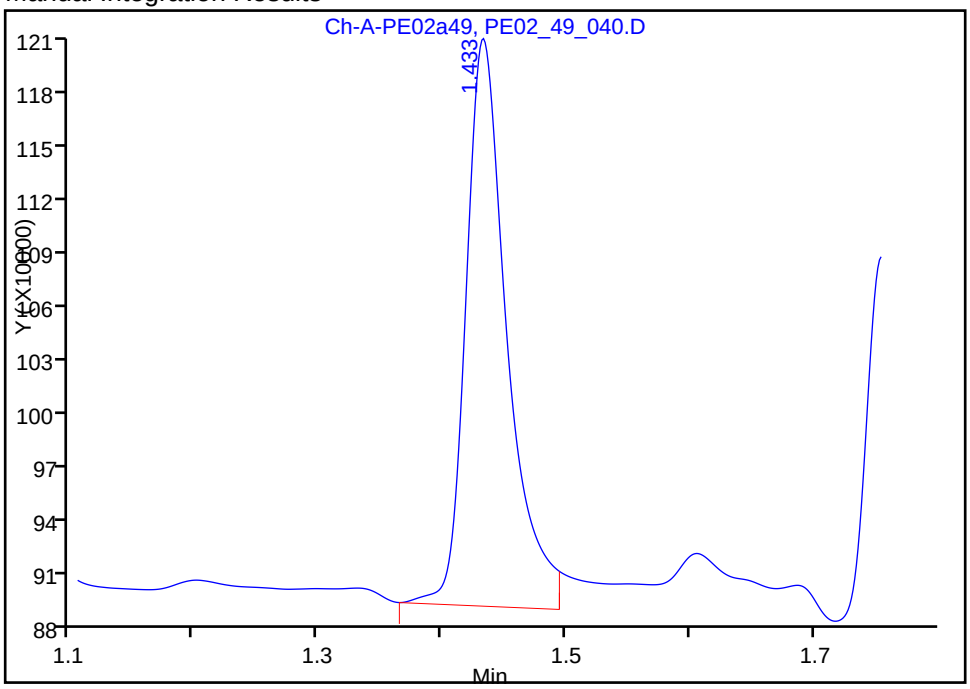
Processing Integration Results

RT: 1.43
Response: 776585
Amount: 0.017698



Manual Integration Results

RT: 1.43
Response: 732205
Amount: 0.016687



Reviewer: michalej, 01-May-2014 07:45:24
Audit Action: Split an Integrated Peak
Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

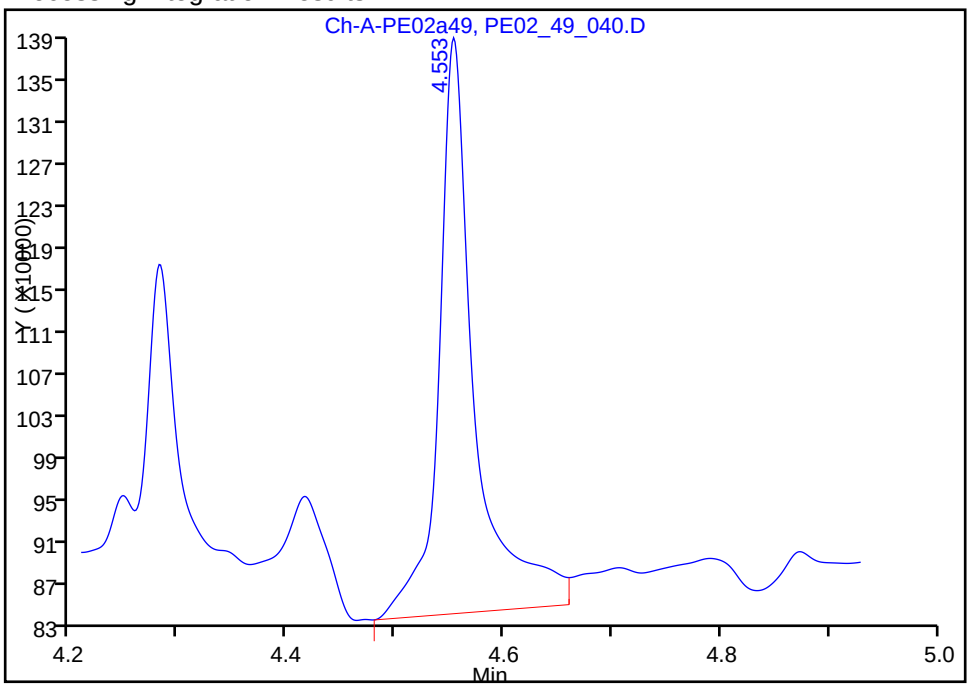
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\PE-02\20140430-31599.b\PE02_49_040.D				
Injection Date:	30-Apr-2014 14:22:28	Instrument ID:	PE-02		
Lims ID:	480-58807-B-1-A	Lab Sample ID:	480-58807-1		
Client ID:	P1-1(Sed)				
Operator ID:	buftchrom	ALS Bottle#:	0	Worklist Smp#:	90
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	PCBS	Limit Group:	GC - 8082A PCB ICAL		
Column:		Detector	Ch-A-7A136		

$ 12 DCB Decachlorobiphenyl, CAS: 2051-24-3

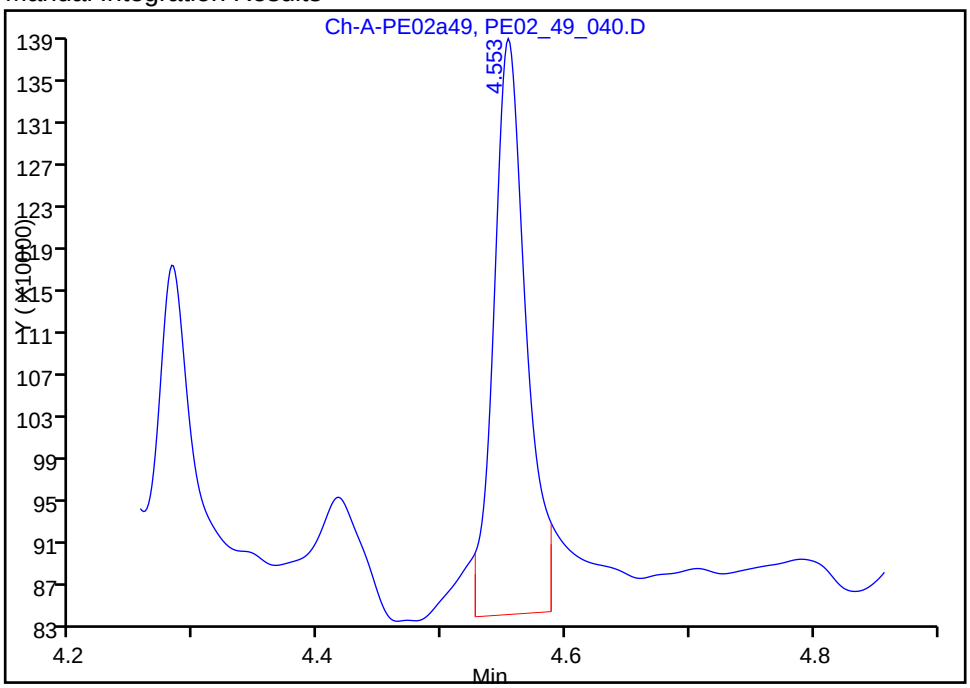
Processing Integration Results

RT: 4.55
Response: 1251976
Amount: 0.025668



Manual Integration Results

RT: 4.55
Response: 986263
Amount: 0.019836



Reviewer: michalej, 01-May-2014 07:45:24
Audit Action: Split an Integrated Peak
Audit Reason: Split Peak

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1

SDG No.:

Client Sample ID: P1-1(Sed) Lab Sample ID: 480-58807-1

Matrix: Solid Lab File ID: PE02_49_040.D

Analysis Method: 8082A Date Collected: 04/25/2014 00:00

Extraction Method: 3550C Date Extracted: 04/29/2014 12:37

Sample wt/vol: +2.08(g) Date Analyzed: 04/30/2014 14:22

Con. Extract Vol.: 11(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 15.0 GPC Cleanup:(Y/N) N

Analysis Batch No.: 179084 Units: mg/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	84		46-175
2051-24-3	DCB Decachlorobiphenyl	153		47-176

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\PE-02\20140430-31599.b\PE02_49_040.D
Lims ID: 480-58807-B-1-A Lab Sample ID: 480-58807-1
Client ID: P1-1(Sed)
Sample Type: Client
Inject. Date: 30-Apr-2014 14:22:28 ALS Bottle#: 0 Worklist Smp#: 90
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name: 480-58699-B-2-E
Misc. Info.: Study: 480-0031599-090 Channel B: I/F Serial#, 680S10042901
Operator ID: buftchrom Instrument ID: PE-02

Method: \\Bufchrom\ChromData\PE-02\20140430-31599.b\PCBS.m
Limit Group: GC - 8082A PCB ICAL
Last Update: 01-May-2014 07:45:24 Calib Date: 23-Jan-2014 15:20:22
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\PE-02\20140123-29005.b\PE02_38_217.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK048

First Level Reviewer: michalej Date: 01-May-2014 07:45:24

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
$ 3 Tetrachloro-m-xylene						M
1	1.433	1.448	-0.015	732205	0.0167	M
2	1.773	1.788	-0.015	495359	0.0152	
					RPD = 9.14	
8 PCB-1254						
1	3.083	3.069	0.014	1052682	0.5353	
1	3.115	3.119	-0.004	1046877	0.3965	
1	3.241	3.247	-0.006	1057439	0.3209	
1	3.363	3.369	-0.006	1173409	0.3804	
		Average of Peak Amounts =			0.4083	
2	3.576	3.581	-0.005	653667	0.2622	
2	3.667	3.671	-0.004	745109	0.3312	
2	3.743	3.748	-0.005	599741	0.5194	
2	3.856	3.860	-0.004	710864	0.4134	
		Average of Peak Amounts =			0.3816	
					RPD = 6.76	
9 PCB-1260						
1	3.489	3.499	-0.010	1721103	0.4042	
1	3.683	3.692	-0.009	282034	0.1553	
1	3.816	3.825	-0.009	917712	0.1387	
1	3.951	3.960	-0.009	447563	0.1580	
		Average of Peak Amounts =			0.2140	
2	4.223	4.232	-0.009	577318	0.1463	
2	4.635	4.636	-0.001	53848	0.1087	
2	4.676	4.683	-0.007	187077	0.1657	
2	0.000	4.845	-4.845	0	0	
		Average of Peak Amounts =			0.1402	
					RPD = 41.67	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
$ 12 DCB Decachlorobiphenyl						M
1	4.553	4.560	-0.007	986263	0.0198	M
2	4.979	4.985	-0.006	870851	0.0278	
					RPD = 33.37	

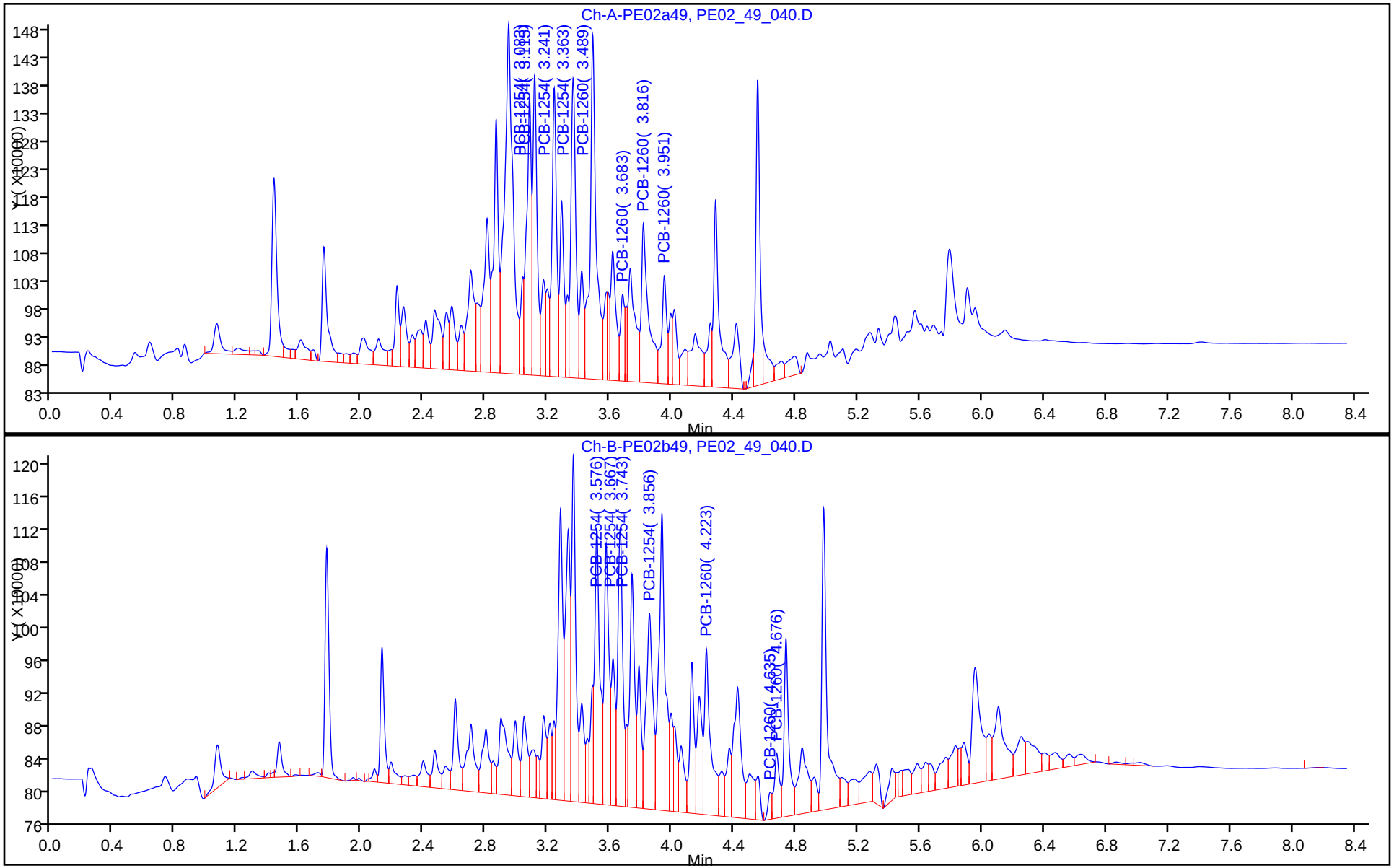
QC Flag Legend

Review Flags
M - Manually Integrated

Report Date: 01-May-2014 07:45:30 Chrom Revision: 2.2 14-Apr-2014 13:40:08

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\PE-02\20140430-31599.b\PE02_49_040.D				
Injection Date:	30-Apr-2014 14:22:28	Instrument ID:	PE-02	Operator ID:	buftchrom
Lims ID:	480-58807-B-1-A	Lab Sample ID:	480-58807-1	Worklist Smp#:	90
Client ID:	P1-1(Sed)				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	PCBS	Limit Group:	GC - 8082A PCB ICAL		



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-58807-1

SDG No.:

Client Sample ID: P1-2(Sed) | Lab Sample ID: 480-58807-2

Matrix: Solid | Lab File ID: PE02_49_041.D

Analysis Method: 8082A | Date Collected: 04/25/2014 00:00

Extraction Method: 3550C | Date Extracted: 04/29/2014 12:37

Sample wt/vol: +2.23(g) | Date Analyzed: 04/30/2014 14:36

Con. Extract Vol.: 11(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-5 ID: 0.53(mm)

% Moisture: 17.3 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 179084 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.30	0.058
11104-28-2	PCB-1221	ND		0.30	0.058
11141-16-5	PCB-1232	ND		0.30	0.058
53469-21-9	PCB-1242	ND		0.30	0.058
12672-29-6	PCB-1248	ND		0.30	0.058
11097-69-1	PCB-1254	0.84		0.30	0.14
11096-82-5	PCB-1260	0.52		0.30	0.14

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	95		46-175
2051-24-3	DCB Decachlorobiphenyl	125		47-176

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\PE-02\20140430-31599.b\PE02_49_041.D
Lims ID: 480-58807-C-2-A Lab Sample ID: 480-58807-2
Client ID: P1-2(Sed)
Sample Type: Client
Inject. Date: 30-Apr-2014 14:36:49 ALS Bottle#: 0 Worklist Smp#: 91
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name: 480-58699-F-3-E
Misc. Info.: Study: 480-0031599-091 Channel B: I/F Serial#, 680S10042901
Operator ID: buftchrom Instrument ID: PE-02

Method: \\Bufchrom\ChromData\PE-02\20140430-31599.b\PCBS.m
Limit Group: GC - 8082A PCB ICAL
Last Update: 01-May-2014 07:47:31 Calib Date: 23-Jan-2014 15:20:22
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\PE-02\20140123-29005.b\PE02_38_217.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK048

First Level Reviewer: michalej Date: 01-May-2014 07:47:31

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
$ 3 Tetrachloro-m-xylene						
1	1.443	1.448	-0.005	761291	0.0173	
2	1.780	1.788	-0.008	505831	0.0156	
					RPD = 10.94	
8 PCB-1254						
1	0.000	3.069	-3.069	0	0	
1	3.119	3.119	0.000	401618	0.1521	
1	3.243	3.247	-0.004	402252	0.1221	
1	3.364	3.369	-0.005	451245	0.1463	
		Average of Peak Amounts =			0.1401	
2	3.576	3.581	-0.005	132062	0.0530	
2	3.668	3.671	-0.003	174743	0.0777	
2	3.744	3.748	-0.004	201388	0.1744	
2	3.857	3.860	-0.003	149135	0.0867	
		Average of Peak Amounts =			0.0979	
					RPD = 35.45	
9 PCB-1260						M
1	0.000	3.499	-3.499	0	0	
1	3.683	3.692	-0.009	134065	0.0738	
1	3.819	3.825	-0.006	546488	0.0826	
1	3.952	3.960	-0.008	292102	0.1031	
		Average of Peak Amounts =			0.0865	
2	4.224	4.232	-0.008	73669	0.0187	
2	4.657	4.636	0.021	76325	0.1541	M
2	4.676	4.683	-0.007	30151	0.0267	M
2	4.840	4.845	-0.005	17424	0.0444	M
		Average of Peak Amounts =			0.0610	
					RPD = 34.64	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
$ 12 DCB Decachlorobiphenyl						M
1	4.553	4.560	-0.007	1116476	0.0227	M
2	4.980	4.985	-0.005	620952	0.0190	M
					RPD = 17.69	

QC Flag Legend

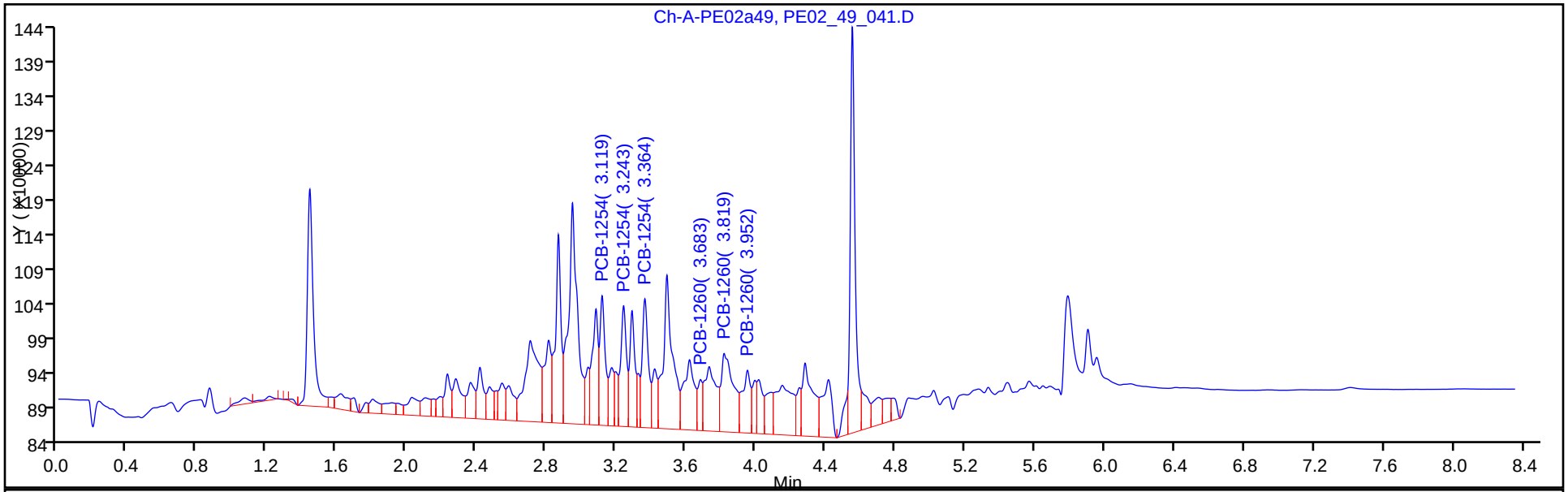
Review Flags
M - Manually Integrated

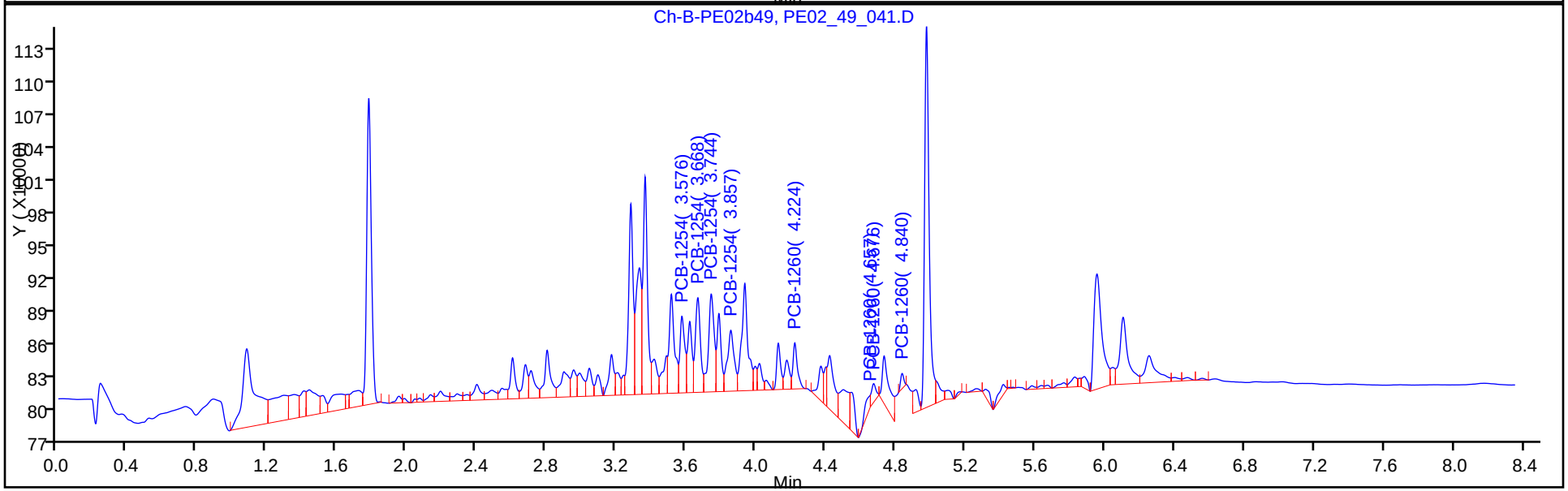
Report Date: 01-May-2014 07:47:31 Chrom Revision: 2.2 14-Apr-2014 13:40:08

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\PE-02\20140430-31599.b\PE02_49_041.D

Injection Date:	30-Apr-2014 14:36:49	Instrument ID:	PE-02	Operator ID:	buftchrom
Lims ID:	480-58807-C-2-A	Lab Sample ID:	480-58807-2	Worklist Smp#:	91
Client ID:	P1-2(Sed)				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	PCBS	Limit Group:	GC - 8082A PCB ICAL		





Manual Integration/User Assign Peak Report

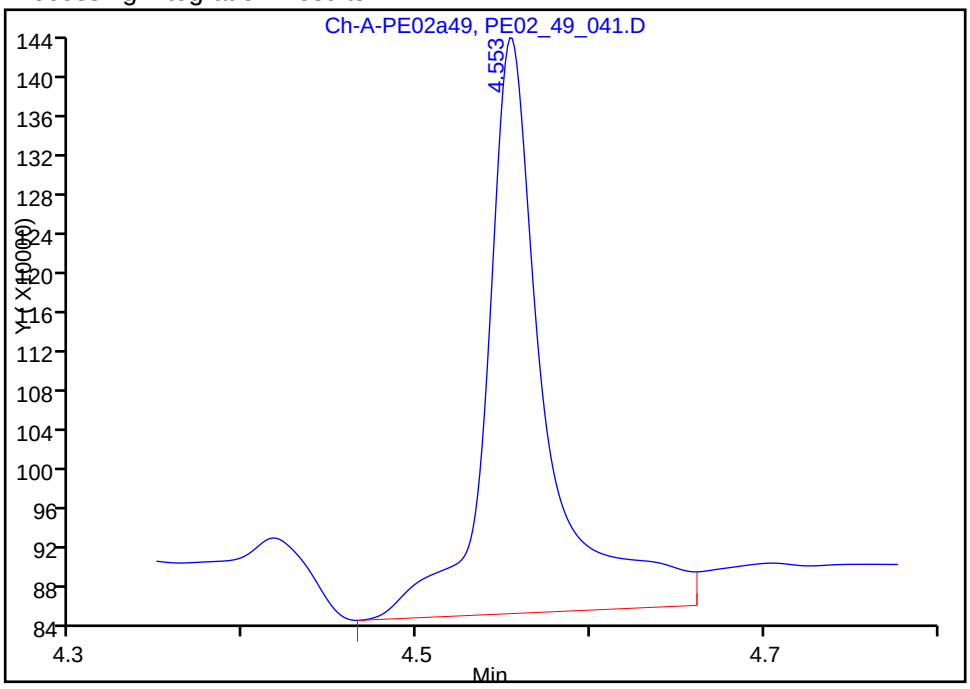
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\PE-02\20140430-31599.b\PE02_49_041.D				
Injection Date:	30-Apr-2014 14:36:49	Instrument ID:	PE-02		
Lims ID:	480-58807-C-2-A	Lab Sample ID:	480-58807-2		
Client ID:	P1-2(Sed)				
Operator ID:	buftchrom	ALS Bottle#:	0	Worklist Smp#:	91
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	PCBS	Limit Group:	GC - 8082A PCB ICAL		
Column:		Detector	Ch-A-7A136		

$ 12 DCB Decachlorobiphenyl, CAS: 2051-24-3

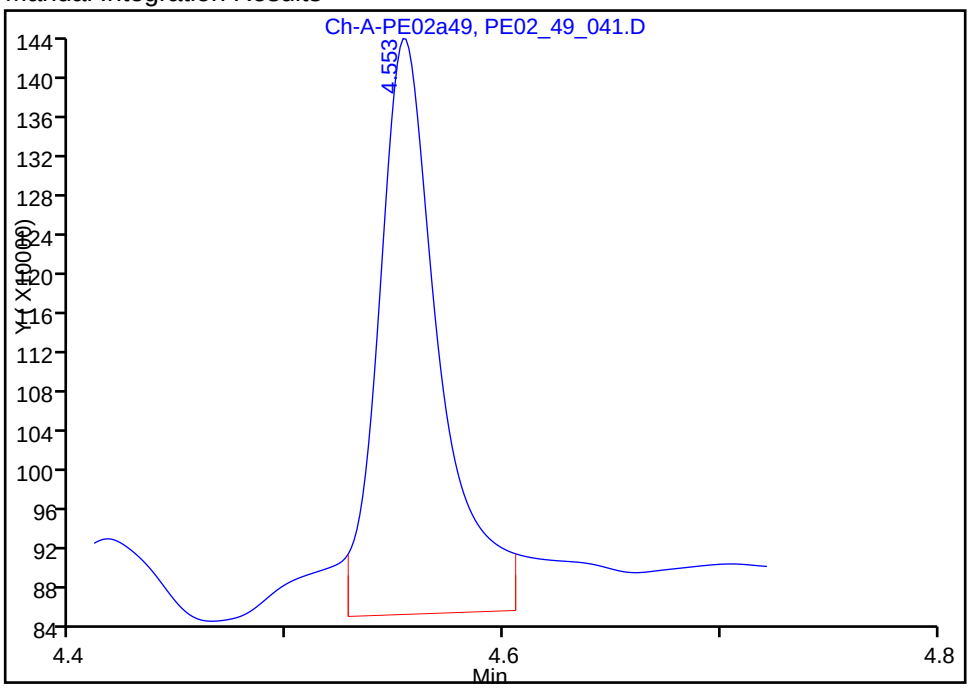
Processing Integration Results

RT: 4.55
Response: 1371246
Amount: 0.028286



Manual Integration Results

RT: 4.55
Response: 1116476
Amount: 0.022694



Reviewer: michalej, 01-May-2014 07:47:31
Audit Action: Split an Integrated Peak
Audit Reason: Split Peak

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1

SDG No.:

Client Sample ID: P1-2(Sed) Lab Sample ID: 480-58807-2

Matrix: Solid Lab File ID: PE02_49_041.D

Analysis Method: 8082A Date Collected: 04/25/2014 00:00

Extraction Method: 3550C Date Extracted: 04/29/2014 12:37

Sample wt/vol: +2.23(g) Date Analyzed: 04/30/2014 14:36

Con. Extract Vol.: 11(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 17.3 GPC Cleanup:(Y/N) N

Analysis Batch No.: 179084 Units: mg/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	86		46-175
2051-24-3	DCB Decachlorobiphenyl	105		47-176

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\PE-02\20140430-31599.b\PE02_49_041.D
Lims ID: 480-58807-C-2-A Lab Sample ID: 480-58807-2
Client ID: P1-2(Sed)
Sample Type: Client
Inject. Date: 30-Apr-2014 14:36:49 ALS Bottle#: 0 Worklist Smp#: 91
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name: 480-58699-F-3-E
Misc. Info.: Study: 480-0031599-091 Channel B: I/F Serial#, 680S10042901
Operator ID: buftchrom Instrument ID: PE-02

Method: \\Bufchrom\ChromData\PE-02\20140430-31599.b\PCBS.m
Limit Group: GC - 8082A PCB ICAL
Last Update: 01-May-2014 07:47:31 Calib Date: 23-Jan-2014 15:20:22
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\PE-02\20140123-29005.b\PE02_38_217.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK048

First Level Reviewer: michalej Date: 01-May-2014 07:47:31

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
$ 3 Tetrachloro-m-xylene						
1	1.443	1.448	-0.005	761291	0.0173	
2	1.780	1.788	-0.008	505831	0.0156	
					RPD = 10.94	
8 PCB-1254						
1	0.000	3.069	-3.069	0	0	
1	3.119	3.119	0.000	401618	0.1521	
1	3.243	3.247	-0.004	402252	0.1221	
1	3.364	3.369	-0.005	451245	0.1463	
		Average of Peak Amounts =			0.1401	
2	3.576	3.581	-0.005	132062	0.0530	
2	3.668	3.671	-0.003	174743	0.0777	
2	3.744	3.748	-0.004	201388	0.1744	
2	3.857	3.860	-0.003	149135	0.0867	
		Average of Peak Amounts =			0.0979	
					RPD = 35.45	
9 PCB-1260						M
1	0.000	3.499	-3.499	0	0	
1	3.683	3.692	-0.009	134065	0.0738	
1	3.819	3.825	-0.006	546488	0.0826	
1	3.952	3.960	-0.008	292102	0.1031	
		Average of Peak Amounts =			0.0865	
2	4.224	4.232	-0.008	73669	0.0187	
2	4.657	4.636	0.021	76325	0.1541	M
2	4.676	4.683	-0.007	30151	0.0267	M
2	4.840	4.845	-0.005	17424	0.0444	M
		Average of Peak Amounts =			0.0610	
					RPD = 34.64	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
$ 12 DCB Decachlorobiphenyl						M
1	4.553	4.560	-0.007	1116476	0.0227	M
2	4.980	4.985	-0.005	620952	0.0190	M
					RPD = 17.69	

QC Flag Legend

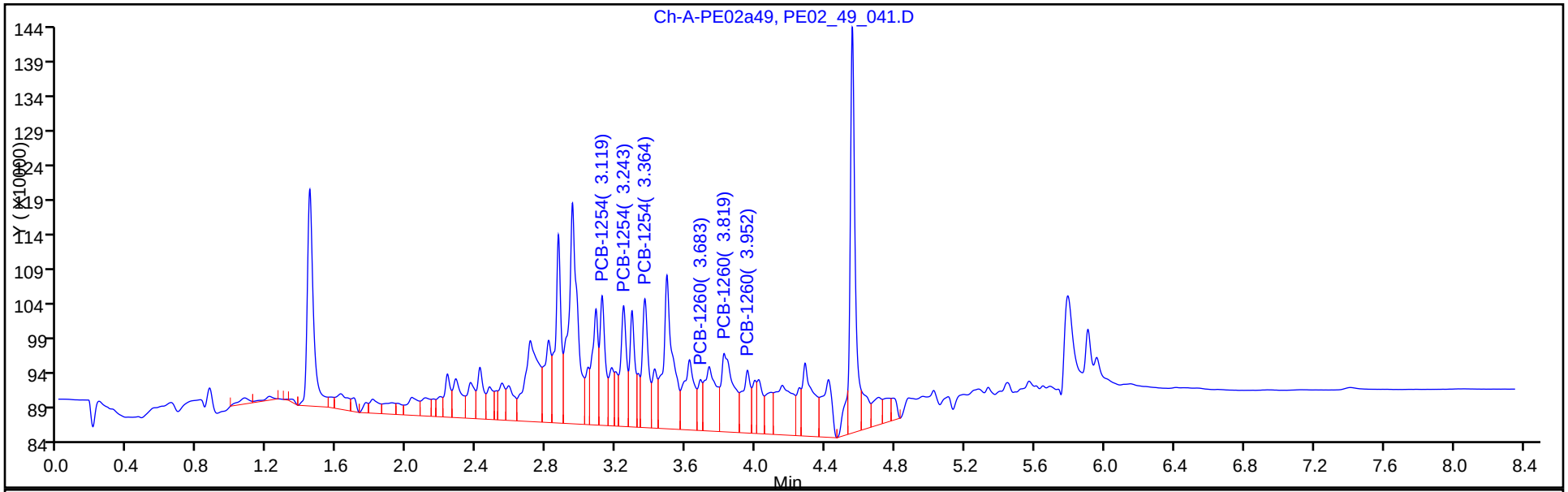
Review Flags
M - Manually Integrated

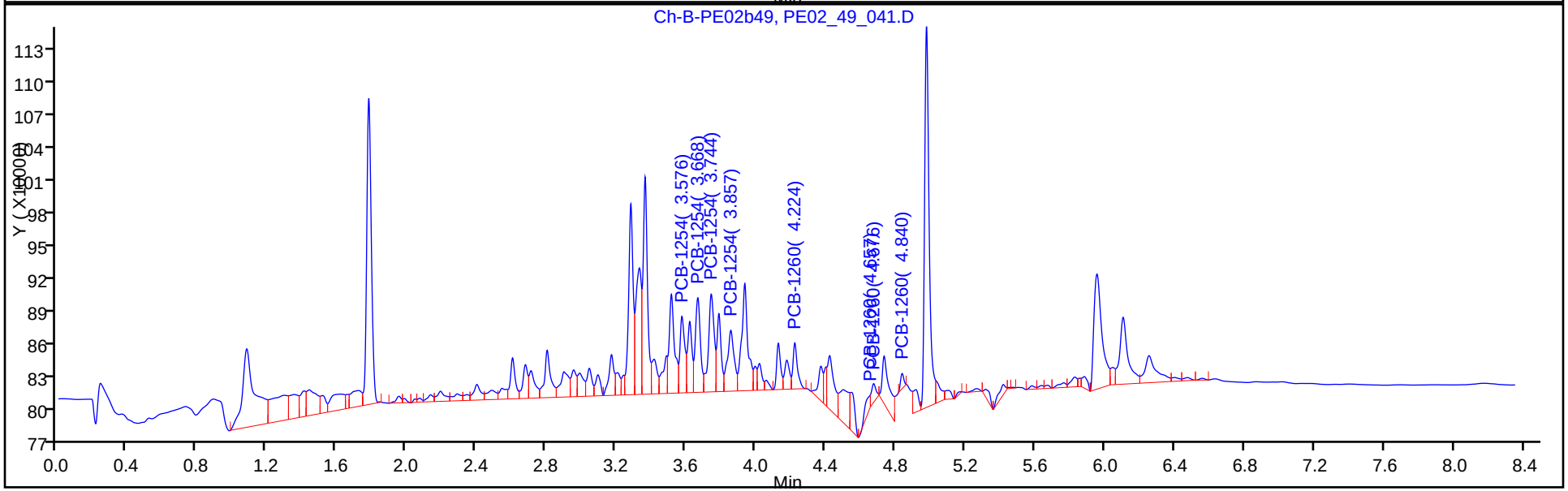
Report Date: 01-May-2014 07:47:32 Chrom Revision: 2.2 14-Apr-2014 13:40:08

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\PE-02\20140430-31599.b\PE02_49_041.D

Injection Date:	30-Apr-2014 14:36:49	Instrument ID:	PE-02	Operator ID:	buftchrom
Lims ID:	480-58807-C-2-A	Lab Sample ID:	480-58807-2	Worklist Smp#:	91
Client ID:	P1-2(Sed)				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	PCBS	Limit Group:	GC - 8082A PCB ICAL		





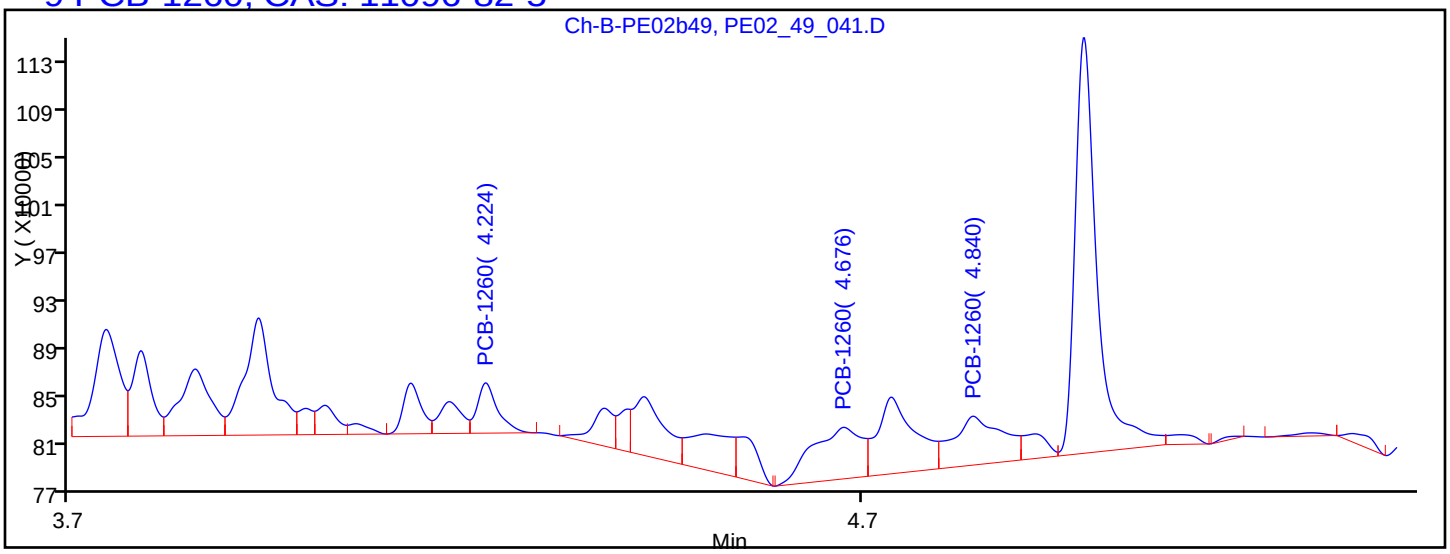
Report Date: 01-May-2014 07:47:33 Chrom Revision: 2.2 14-Apr-2014 13:40:08

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\PE-02\20140430-31599.b\PE02_49_041.D

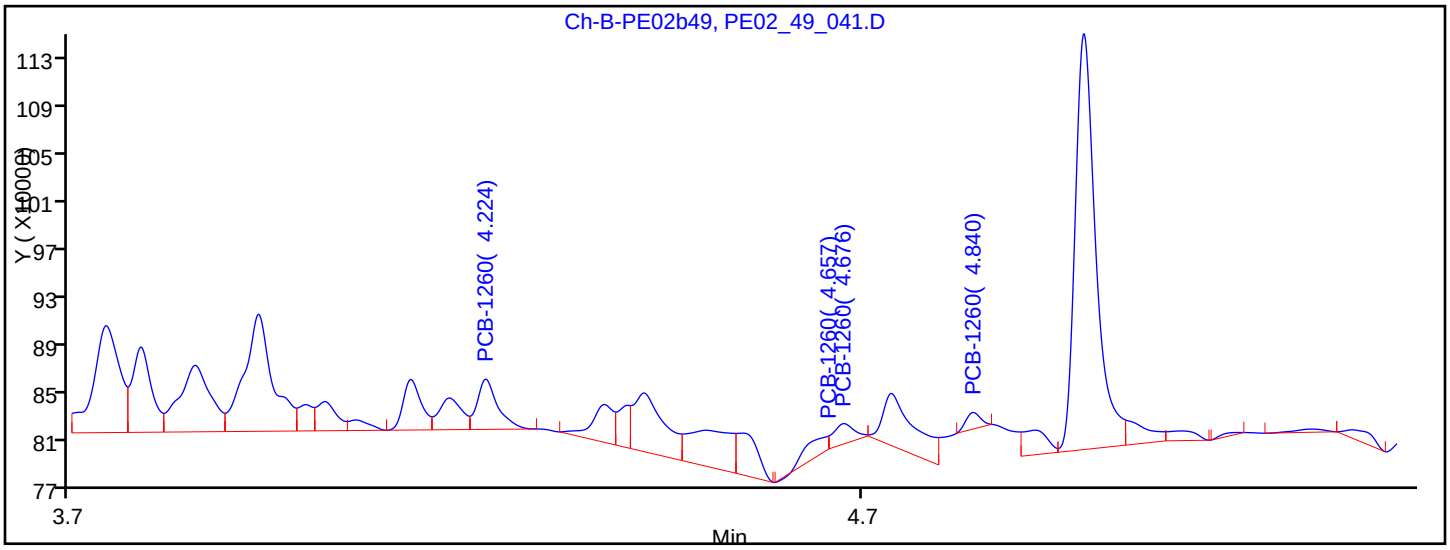
Injection Date:	30-Apr-2014 14:36:49	Instrument ID:	PE-02		
Lims ID:	480-58807-C-2-A	Lab Sample ID:	480-58807-2		
Client ID:	P1-2(Sed)				
Operator ID:	buftchrom	ALS Bottle#:	0	Worklist Smp#:	91
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	PCBS	Limit Group:	GC - 8082A PCB ICAL		
Column:		Detector	Ch-B-7b136		

9 PCB-1260, CAS: 11096-82-5



Processing Integration Results

RT = 4.224	Response = 73669	
RT = 0.000	Response = 0	M
RT = 4.676	Response = 184357	M
RT = 4.840	Response = 171662	M



Manual Integration Results

RT = 4.224	Response = 73669	
RT = 4.657	Response = 76325	M
RT = 4.676	Response = 30151	M
RT = 4.840	Response = 17424	M

Reviewer: michalej, 01-May-2014 07:47:31

Audit Action: Manually Integrated/Assigned Compound ID

Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

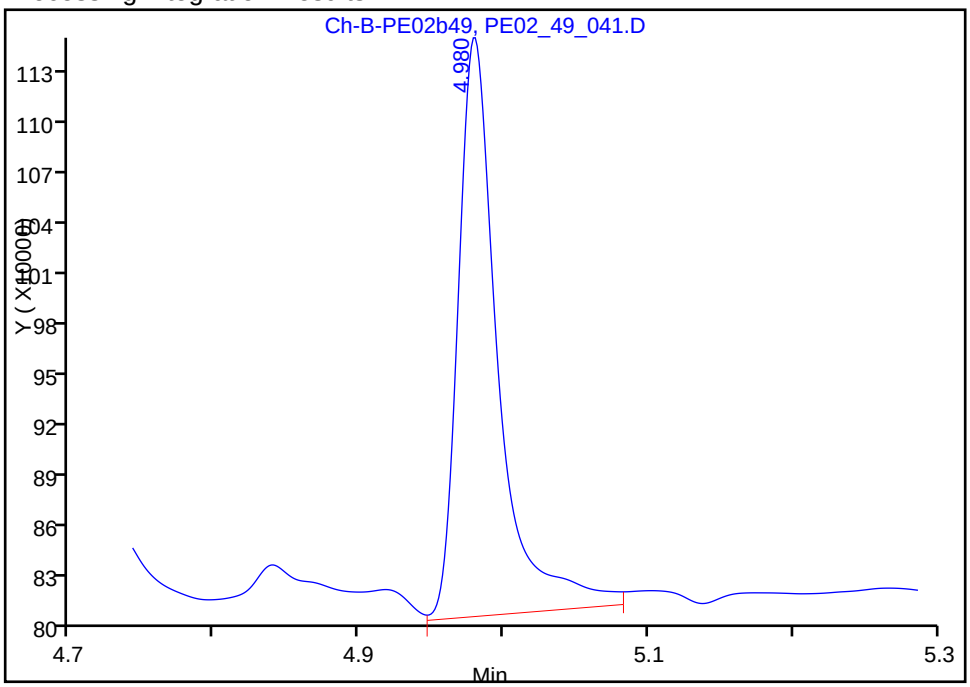
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\PE-02\20140430-31599.b\PE02_49_041.D				
Injection Date:	30-Apr-2014 14:36:49	Instrument ID:	PE-02		
Lims ID:	480-58807-C-2-A	Lab Sample ID:	480-58807-2		
Client ID:	P1-2(Sed)				
Operator ID:	buftchrom	ALS Bottle#:	0	Worklist Smp#:	91
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	PCBS	Limit Group:	GC - 8082A PCB ICAL		
Column:		Detector	Ch-B-7b136		

$ 12 DCB Decachlorobiphenyl, CAS: 2051-24-3

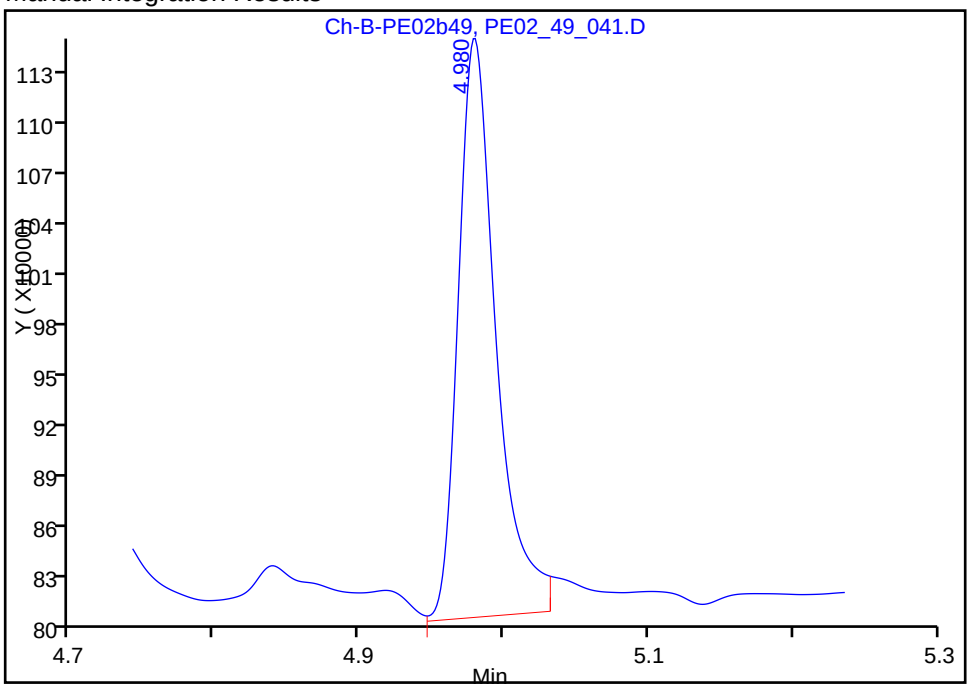
Processing Integration Results

RT: 4.98
Response: 659519
Amount: 0.020360



Manual Integration Results

RT: 4.98
Response: 620952
Amount: 0.019006



Reviewer: michalej, 01-May-2014 07:47:31
Audit Action: Split an Integrated Peak
Audit Reason: Split Peak

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-58807-1

SDG No.:

Client Sample ID: P2-1(Sed) | Lab Sample ID: 480-58807-3

Matrix: Solid | Lab File ID: PE02_49_042.D

Analysis Method: 8082A | Date Collected: 04/25/2014 00:00

Extraction Method: 3550C | Date Extracted: 04/29/2014 12:37

Sample wt/vol: +2.16(g) | Date Analyzed: 04/30/2014 14:51

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-5 ID: 0.53(mm)

% Moisture: 12.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 179084 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.27	0.052
11104-28-2	PCB-1221	ND		0.27	0.052
11141-16-5	PCB-1232	ND		0.27	0.052
53469-21-9	PCB-1242	ND		0.27	0.052
12672-29-6	PCB-1248	ND		0.27	0.052
11097-69-1	PCB-1254	ND		0.27	0.12
11096-82-5	PCB-1260	ND		0.27	0.12

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	118		46-175
2051-24-3	DCB Decachlorobiphenyl	137		47-176

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\PE-02\20140430-31599.b\PE02_49_042.D
Lims ID: 480-58807-B-3-A Lab Sample ID: 480-58807-3
Client ID: P2-1(Sed)
Sample Type: Client
Inject. Date: 30-Apr-2014 14:51:09 ALS Bottle#: 0 Worklist Smp#: 101
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name: 480-58832-D-1-A
Misc. Info.: Study: 480-0031599-092 Channel B: I/F Serial#, 680S10042901
Operator ID: buftchrom Instrument ID: PE-02

Method: \\Bufchrom\ChromData\PE-02\20140430-31599.b\PCBS.m
Limit Group: GC - 8082A PCB ICAL
Last Update: 01-May-2014 07:47:47 Calib Date: 23-Jan-2014 15:20:22
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\PE-02\20140123-29005.b\PE02_38_217.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK048

First Level Reviewer: michalej Date: 01-May-2014 07:47:47

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
$ 3 Tetrachloro-m-xylene						M
1	1.439	1.448	-0.009	1034386	0.0236	M
2	1.779	1.788	-0.009	716577	0.0220	
					RPD = 6.77	
$ 12 DCB Decachlorobiphenyl						
1	4.556	4.560	-0.004	1327025	0.0273	
2	4.981	4.985	-0.004	835459	0.0265	
					RPD = 2.88	

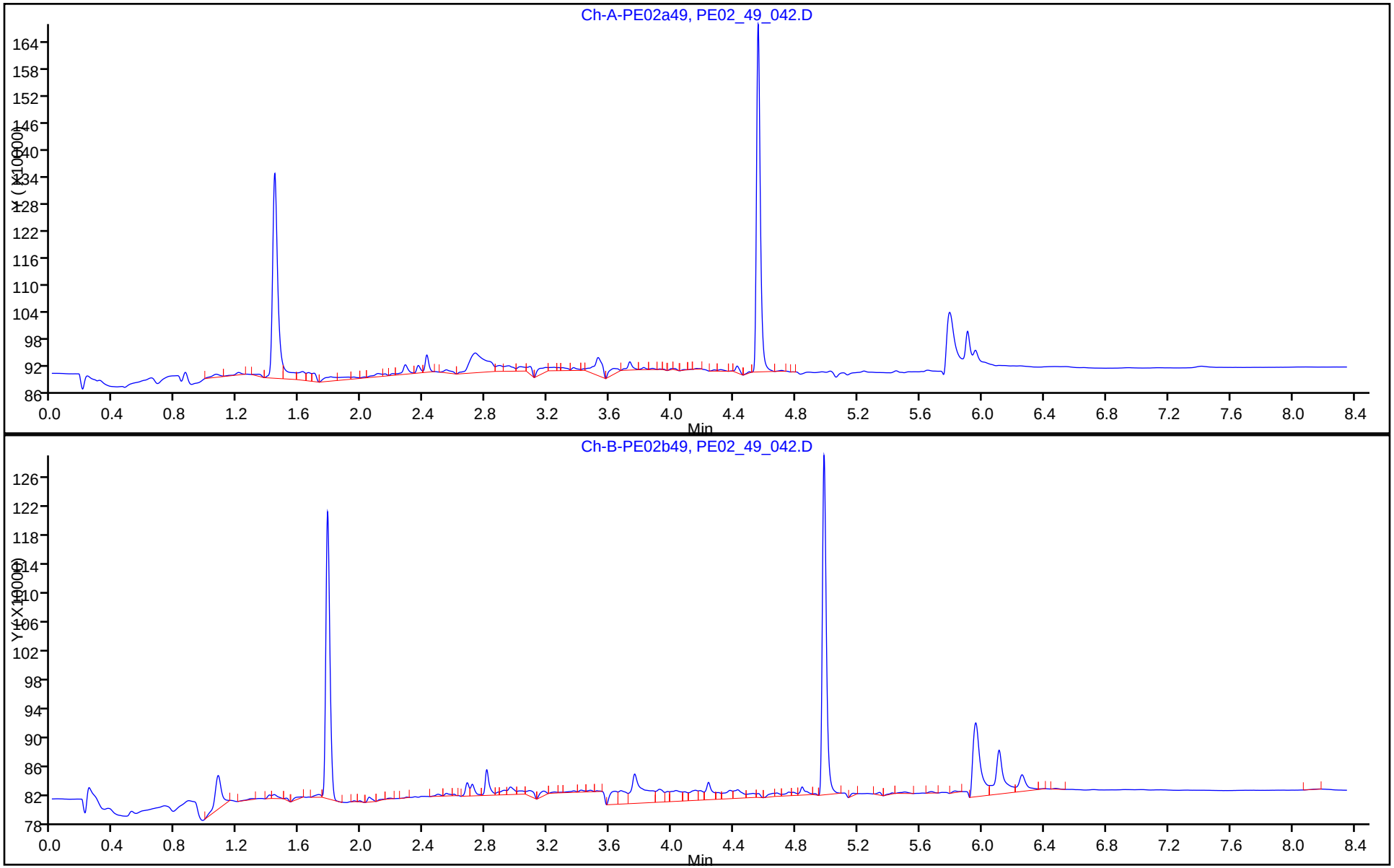
QC Flag Legend

Review Flags
M - Manually Integrated

Report Date: 01-May-2014 07:47:48 Chrom Revision: 2.2 14-Apr-2014 13:40:08

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\PE-02\20140430-31599.b\PE02_49_042.D				
Injection Date:	30-Apr-2014 14:51:09	Instrument ID:	PE-02	Operator ID:	buftchrom
Lims ID:	480-58807-B-3-A	Lab Sample ID:	480-58807-3	Worklist Smp#:	101
Client ID:	P2-1(Sed)				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	PCBS	Limit Group:	GC - 8082A PCB ICAL		



Manual Integration/User Assign Peak Report

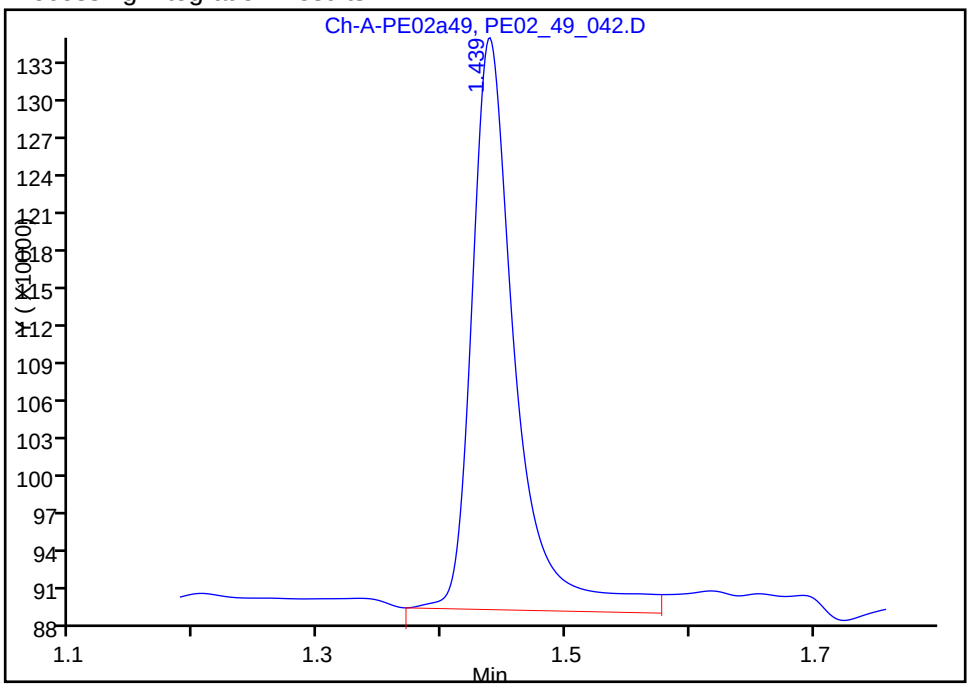
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\PE-02\20140430-31599.b\PE02_49_042.D				
Injection Date:	30-Apr-2014 14:51:09	Instrument ID:	PE-02		
Lims ID:	480-58807-B-3-A	Lab Sample ID:	480-58807-3		
Client ID:	P2-1(Sed)				
Operator ID:	buftchrom	ALS Bottle#:	0	Worklist Smp#:	101
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	PCBS	Limit Group:	GC - 8082A PCB ICAL		
Column:		Detector	Ch-A-7A136		

$ 3 Tetrachloro-m-xylene, CAS: 877-09-8

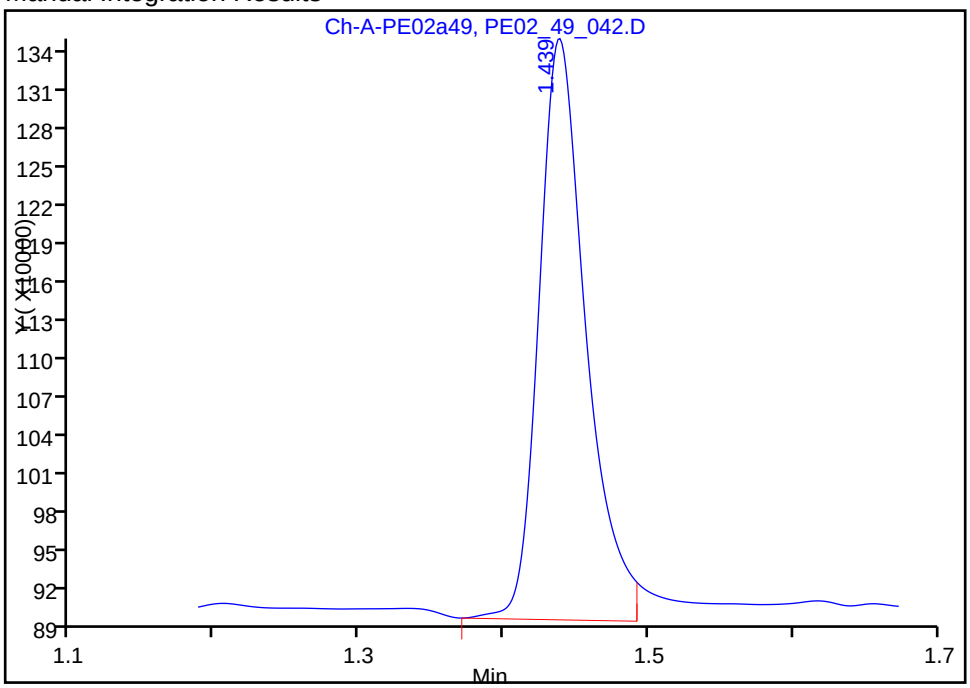
Processing Integration Results

RT: 1.44
Response: 1122123
Amount: 0.025573



Manual Integration Results

RT: 1.44
Response: 1034386
Amount: 0.023574



Reviewer: michalej, 01-May-2014 07:47:47
Audit Action: Split an Integrated Peak
Audit Reason: Split Peak

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1

SDG No.:

Client Sample ID: P2-1(Sed) Lab Sample ID: 480-58807-3

Matrix: Solid Lab File ID: PE02_49_042.D

Analysis Method: 8082A Date Collected: 04/25/2014 00:00

Extraction Method: 3550C Date Extracted: 04/29/2014 12:37

Sample wt/vol: +2.16(g) Date Analyzed: 04/30/2014 14:51

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 12.6 GPC Cleanup:(Y/N) N

Analysis Batch No.: 179084 Units: mg/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	110		46-175
2051-24-3	DCB Decachlorobiphenyl	133		47-176

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\PE-02\20140430-31599.b\PE02_49_042.D
Lims ID: 480-58807-B-3-A Lab Sample ID: 480-58807-3
Client ID: P2-1(Sed)
Sample Type: Client
Inject. Date: 30-Apr-2014 14:51:09 ALS Bottle#: 0 Worklist Smp#: 101
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name: 480-58832-D-1-A
Misc. Info.: Study: 480-0031599-092 Channel B: I/F Serial#, 680S10042901
Operator ID: buftchrom Instrument ID: PE-02

Method: \\Bufchrom\ChromData\PE-02\20140430-31599.b\PCBS.m
Limit Group: GC - 8082A PCB ICAL
Last Update: 01-May-2014 07:47:47 Calib Date: 23-Jan-2014 15:20:22
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\PE-02\20140123-29005.b\PE02_38_217.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK048

First Level Reviewer: michalej Date: 01-May-2014 07:47:47

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
$ 3 Tetrachloro-m-xylene						M
1	1.439	1.448	-0.009	1034386	0.0236	M
2	1.779	1.788	-0.009	716577	0.0220	
					RPD = 6.77	
$ 12 DCB Decachlorobiphenyl						
1	4.556	4.560	-0.004	1327025	0.0273	
2	4.981	4.985	-0.004	835459	0.0265	
					RPD = 2.88	

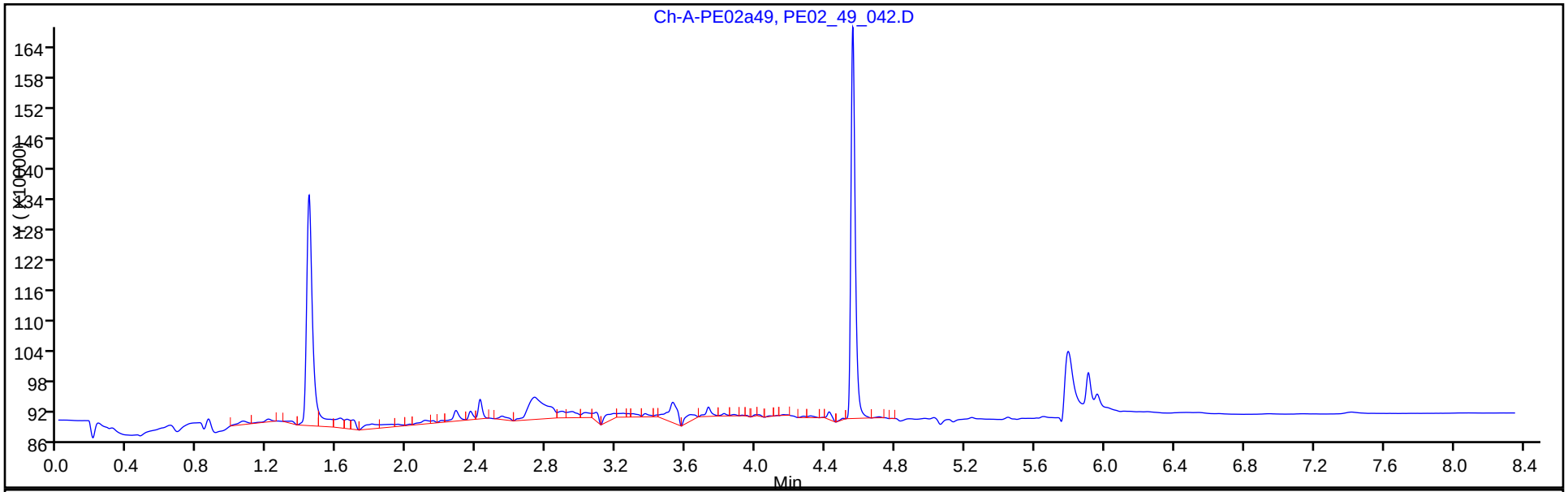
QC Flag Legend

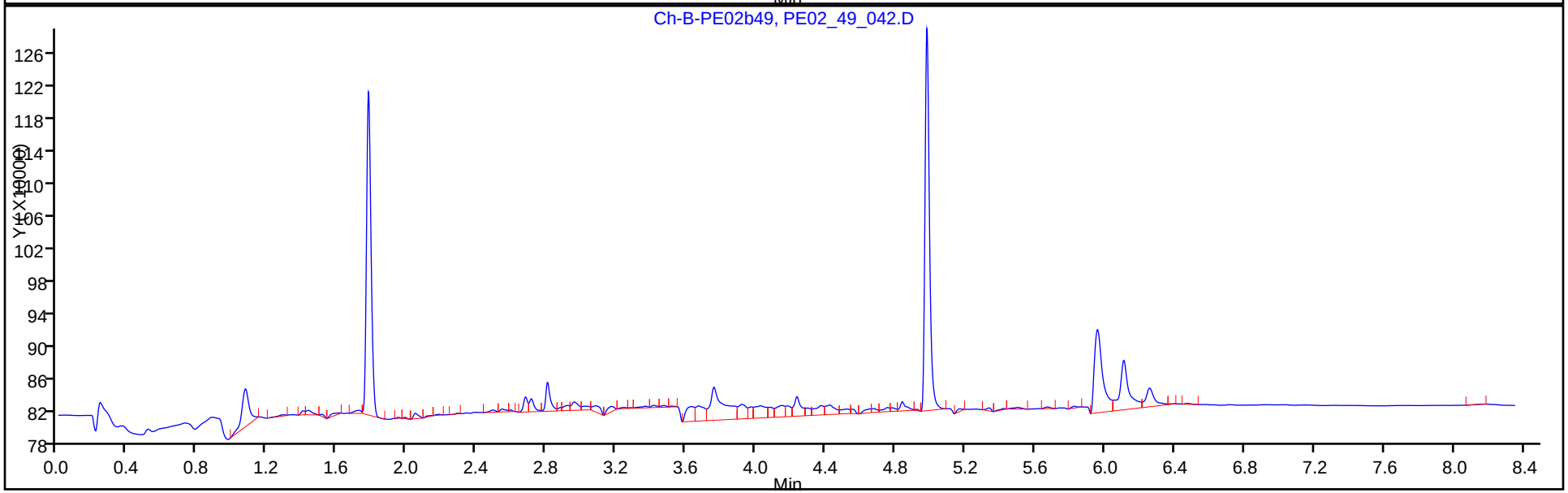
Review Flags
M - Manually Integrated

Report Date: 01-May-2014 07:47:48 Chrom Revision: 2.2 14-Apr-2014 13:40:08

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\PE-02\20140430-31599.b\PE02_49_042.D				
Injection Date:	30-Apr-2014 14:51:09	Instrument ID:	PE-02	Operator ID:	buftchrom
Lims ID:	480-58807-B-3-A	Lab Sample ID:	480-58807-3	Worklist Smp#:	101
Client ID:	P2-1(Sed)				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	PCBS	Limit Group:	GC - 8082A PCB ICAL		





FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-58807-1

SDG No.:

Client Sample ID: P2-2(Sed) | Lab Sample ID: 480-58807-4

Matrix: Solid | Lab File ID: PE02_49_043.D

Analysis Method: 8082A | Date Collected: 04/25/2014 00:00

Extraction Method: 3550C | Date Extracted: 04/29/2014 12:37

Sample wt/vol: +2.56(g) | Date Analyzed: 04/30/2014 15:05

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-5 ID: 0.53(mm)

% Moisture: 17.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 179084 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.24	0.046
11104-28-2	PCB-1221	ND		0.24	0.046
11141-16-5	PCB-1232	ND		0.24	0.046
53469-21-9	PCB-1242	ND		0.24	0.046
12672-29-6	PCB-1248	ND		0.24	0.046
11097-69-1	PCB-1254	ND		0.24	0.11
11096-82-5	PCB-1260	ND		0.24	0.11

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	126		46-175
2051-24-3	DCB Decachlorobiphenyl	140		47-176

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\PE-02\20140430-31599.b\PE02_49_043.D
Lims ID: 480-58807-C-4-A Lab Sample ID: 480-58807-4
Client ID: P2-2(Sed)
Sample Type: Client
Inject. Date: 30-Apr-2014 15:05:30 ALS Bottle#: 0 Worklist Smp#: 100
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name: 480-58756-A-1-B
Misc. Info.: Study: 480-0031599-093 Channel B: I/F Serial#, 680S10042901
Operator ID: buftchrom Instrument ID: PE-02

Method: \\Bufchrom\ChromData\PE-02\20140430-31599.b\PCBS.m
Limit Group: GC - 8082A PCB ICAL
Last Update: 01-May-2014 07:48:03 Calib Date: 23-Jan-2014 15:20:22
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\PE-02\20140123-29005.b\PE02_38_217.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK048

First Level Reviewer: michalej Date: 01-May-2014 07:48:03

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
$ 3 Tetrachloro-m-xylene						M
1	1.433	1.448	-0.015	1102686	0.0251	M
2	1.775	1.788	-0.013	726343	0.0223	
					RPD = 11.80	
$ 12 DCB Decachlorobiphenyl						
1	4.555	4.560	-0.005	1360582	0.0281	
2	4.980	4.985	-0.005	848906	0.0270	
					RPD = 3.78	

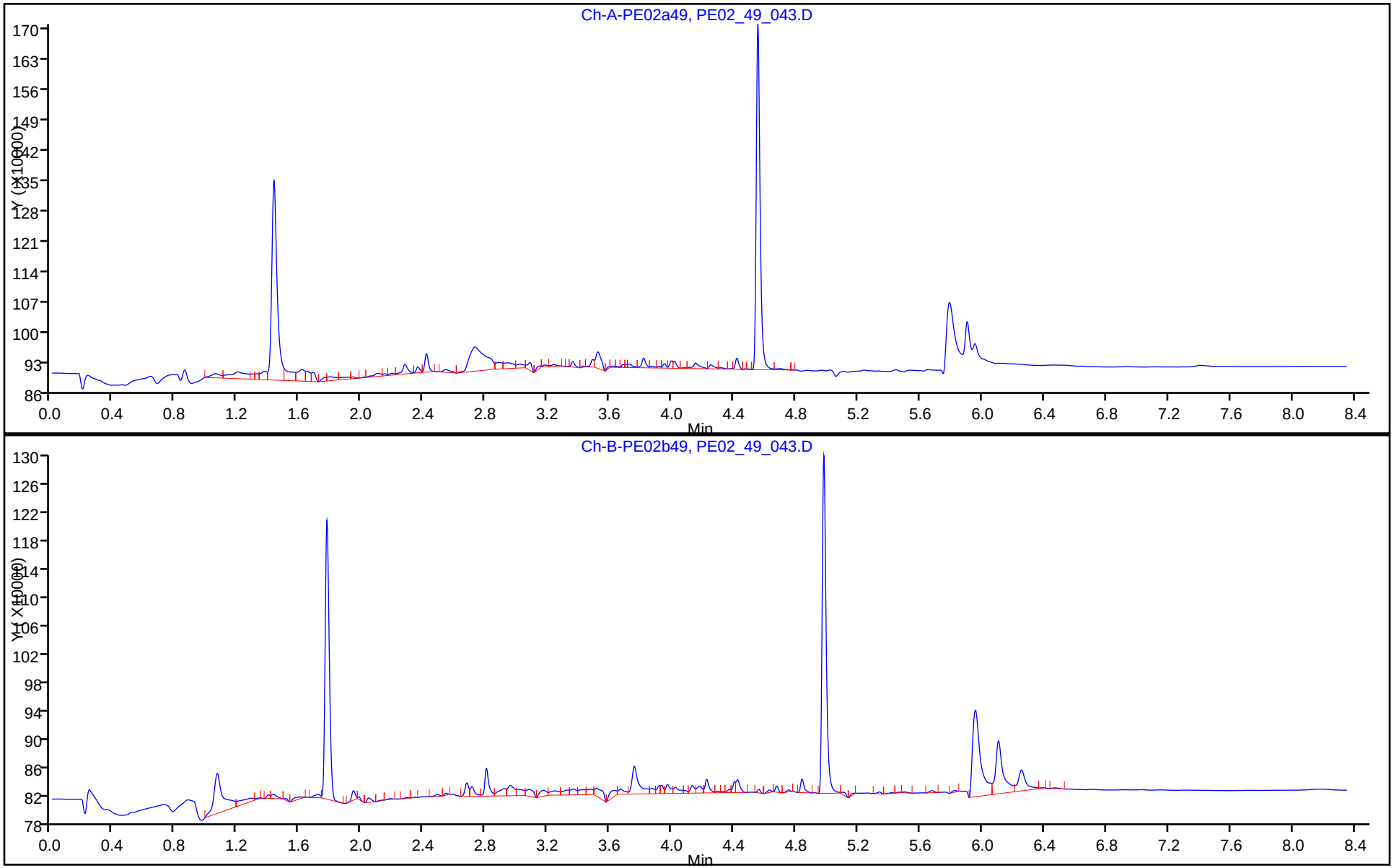
QC Flag Legend

Review Flags
M - Manually Integrated

Report Date: 01-May-2014 07:48:03 Chrom Revision: 2.2 14-Apr-2014 13:40:08

TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\PE-02\20140430-31599.b\PE02_49_043.D				
Injection Date:	30-Apr-2014 15:05:30	Instrument ID:	PE-02	Operator ID:	buftchrom
Lims ID:	480-58807-C-4-A	Lab Sample ID:	480-58807-4	Worklist Smp#:	100
Client ID:	P2-2(Sed)				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	PCBS	Limit Group:	GC - 8082A PCB ICAL		



Manual Integration/User Assign Peak Report

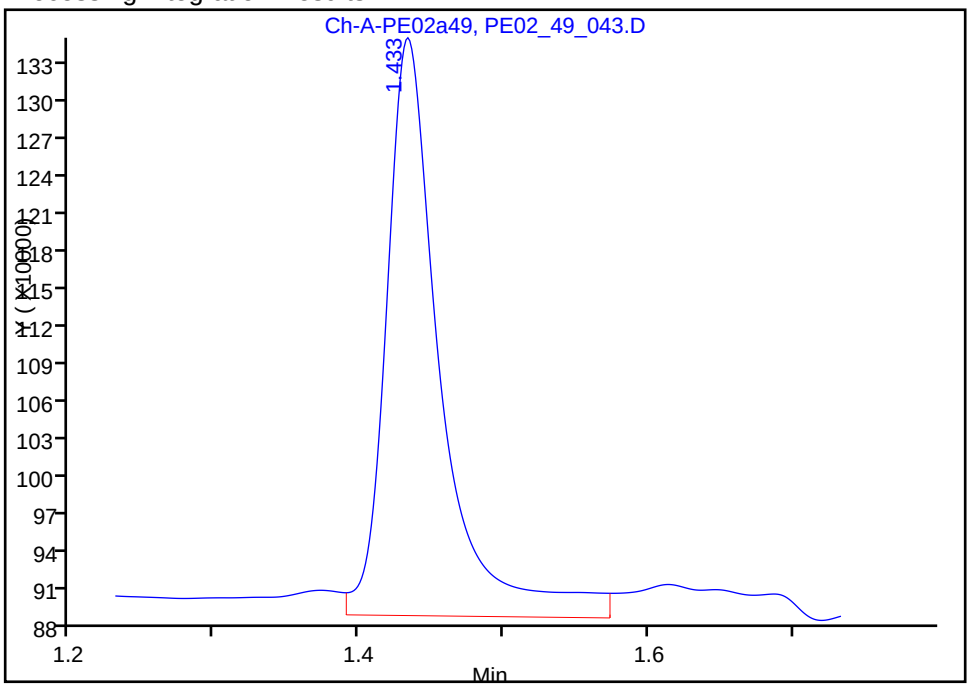
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\PE-02\20140430-31599.b\PE02_49_043.D				
Injection Date:	30-Apr-2014 15:05:30	Instrument ID:	PE-02		
Lims ID:	480-58807-C-4-A	Lab Sample ID:	480-58807-4		
Client ID:	P2-2(Sed)				
Operator ID:	buftchrom	ALS Bottle#:	0	Worklist Smp#:	100
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	PCBS	Limit Group:	GC - 8082A PCB ICAL		
Column:		Detector	Ch-A-7A136		

$ 3 Tetrachloro-m-xylene, CAS: 877-09-8

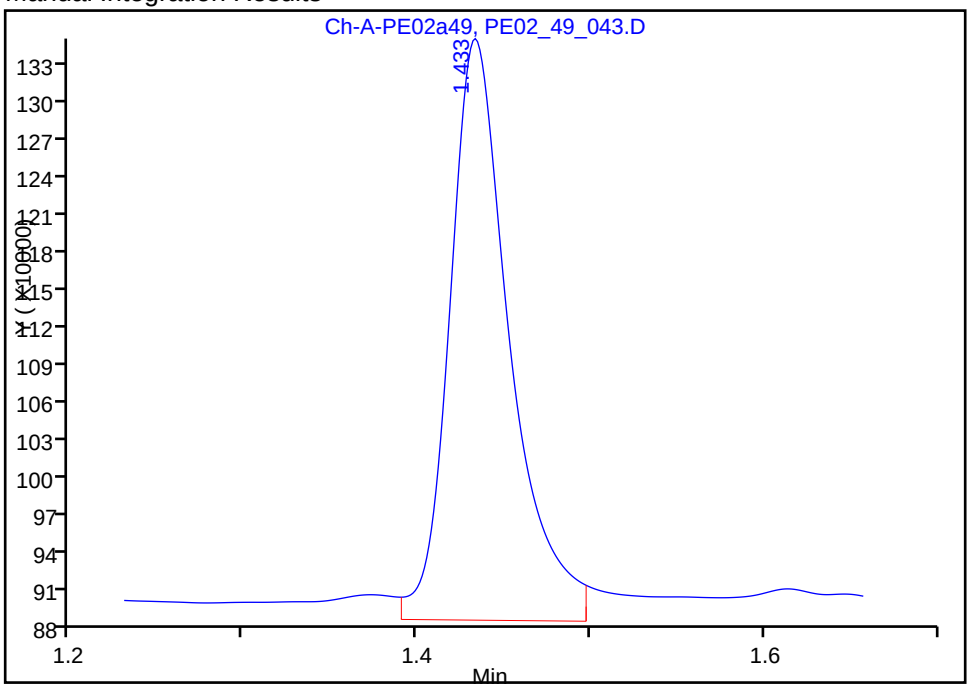
Processing Integration Results

RT: 1.43
Response: 1198252
Amount: 0.027308



Manual Integration Results

RT: 1.43
Response: 1102686
Amount: 0.025130



Reviewer: michalej, 01-May-2014 07:48:03
Audit Action: Split an Integrated Peak
Audit Reason: Wrong Peak

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1

SDG No.:

Client Sample ID: P2-2(Sed) Lab Sample ID: 480-58807-4

Matrix: Solid Lab File ID: PE02_49_043.D

Analysis Method: 8082A Date Collected: 04/25/2014 00:00

Extraction Method: 3550C Date Extracted: 04/29/2014 12:37

Sample wt/vol: +2.56(g) Date Analyzed: 04/30/2014 15:05

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 17.6 GPC Cleanup:(Y/N) N

Analysis Batch No.: 179084 Units: mg/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	112		46-175
2051-24-3	DCB Decachlorobiphenyl	135		47-176

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\PE-02\20140430-31599.b\PE02_49_043.D
Lims ID: 480-58807-C-4-A Lab Sample ID: 480-58807-4
Client ID: P2-2(Sed)
Sample Type: Client
Inject. Date: 30-Apr-2014 15:05:30 ALS Bottle#: 0 Worklist Smp#: 100
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name: 480-58756-A-1-B
Misc. Info.: Study: 480-0031599-093 Channel B: I/F Serial#, 680S10042901
Operator ID: buftchrom Instrument ID: PE-02

Method: \\Bufchrom\ChromData\PE-02\20140430-31599.b\PCBS.m
Limit Group: GC - 8082A PCB ICAL
Last Update: 01-May-2014 07:48:03 Calib Date: 23-Jan-2014 15:20:22
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\PE-02\20140123-29005.b\PE02_38_217.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK048

First Level Reviewer: michalej Date: 01-May-2014 07:48:03

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
$ 3 Tetrachloro-m-xylene						M
1	1.433	1.448	-0.015	1102686	0.0251	M
2	1.775	1.788	-0.013	726343	0.0223	
					RPD = 11.80	
$ 12 DCB Decachlorobiphenyl						
1	4.555	4.560	-0.005	1360582	0.0281	
2	4.980	4.985	-0.005	848906	0.0270	
					RPD = 3.78	

QC Flag Legend

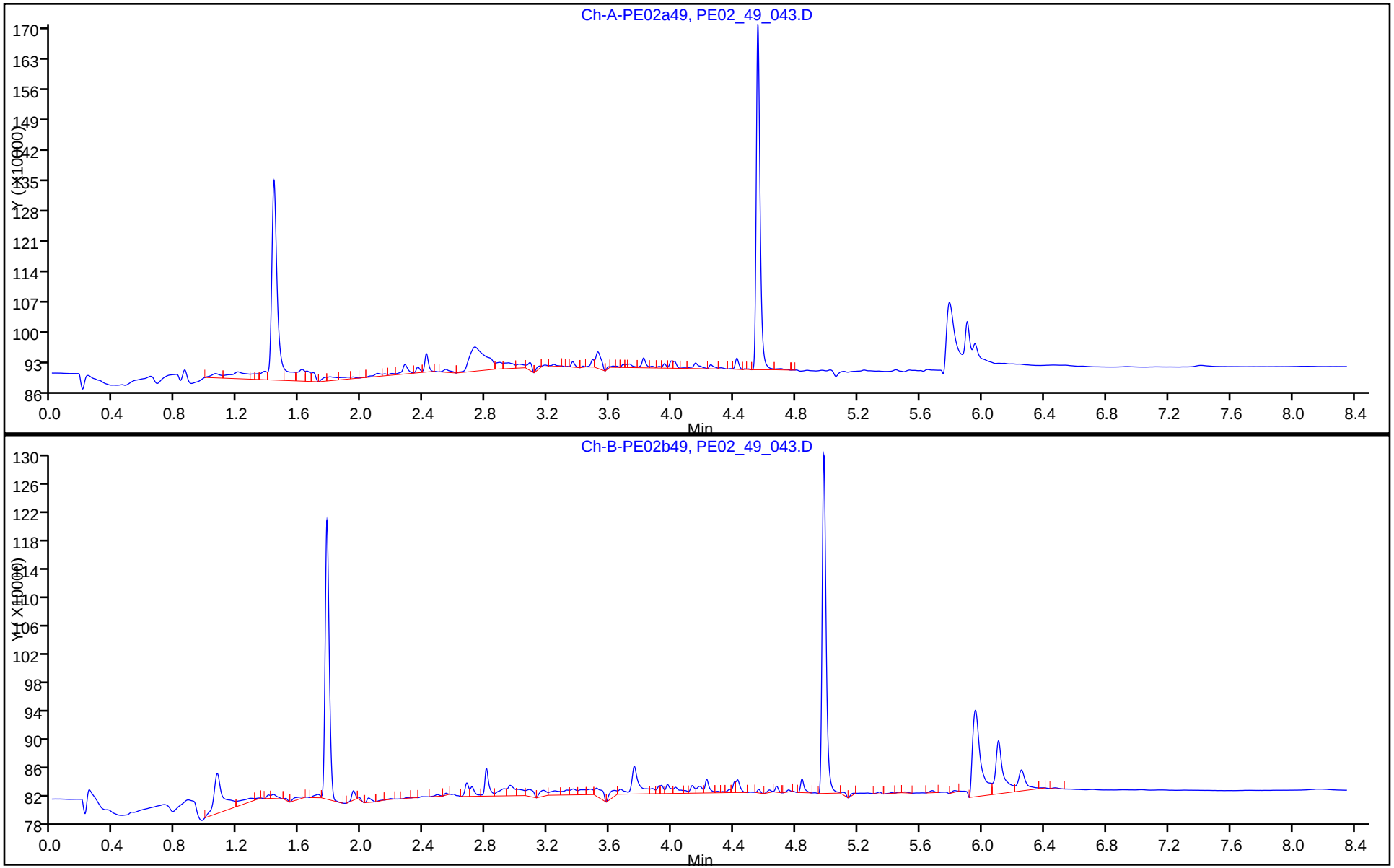
Review Flags
M - Manually Integrated

Report Date: 01-May-2014 07:48:04 Chrom Revision: 2.2 14-Apr-2014 13:40:08

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\PE-02\20140430-31599.b\PE02_49_043.D

Injection Date:	30-Apr-2014 15:05:30	Instrument ID:	PE-02	Operator ID:	buftchrom
Lims ID:	480-58807-C-4-A	Lab Sample ID:	480-58807-4	Worklist Smp#:	100
Client ID:	P2-2(Sed)				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	PCBS	Limit Group:	GC - 8082A PCB ICAL		



FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1 Analy Batch No.: 162934

SDG No.:

Instrument ID: PE-02 GC Column: ZB-5 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/23/2014 10:33 Calibration End Date: 01/23/2014 11:59 Calibration ID: 17089

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 480-162934/3	PE02_38_197.D
Level 2	STD2 480-162934/4	PE02_38_198.D
Level 3	STD3 480-162934/5	PE02_38_199.D
Level 4	STD4 480-162934/6	PE02_38_200.D
Level 5	STD5 480-162934/7	PE02_38_201.D
Level 6	STD6 480-162934/8	PE02_38_202.D
Level 7	STD7 480-162934/9	PE02_38_203.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	LVL 7				RT WINDOW	AVG RT
PCB-1016 Peak 1	2.144	2.149	2.148	2.141	2.144	2.149	+++++				2.118 - 2.178	2.146
PCB-1016 Peak 2	2.301	2.307	2.305	2.299	2.301	2.307	+++++				2.277 - 2.337	2.303
PCB-1016 Peak 3	2.357	2.363	2.363	2.355	2.357	2.363	+++++				2.333 - 2.393	2.360
PCB-1016 Peak 4	2.615	2.623	2.621	2.615	2.617	2.623	+++++				2.591 - 2.651	2.619
PCB-1260 Peak 1	3.517	3.523	3.521	3.515	3.516	3.521	+++++				3.490 - 3.550	3.519
PCB-1260 Peak 2	3.711	3.716	3.713	3.707	3.711	3.715	+++++				3.683 - 3.743	3.712
PCB-1260 Peak 3	3.843	3.849	3.847	3.840	3.843	3.848	+++++				3.817 - 3.877	3.845
PCB-1260 Peak 4	3.979	3.984	3.983	3.976	3.979	3.983	+++++				3.953 - 4.013	3.981
Tetrachloro-m-xylene	1.477	1.479	1.479	1.473	1.476	1.479	1.479				1.449 - 1.509	1.477
DCB Decachlorobiphenyl	4.577	4.583	4.581	4.576	4.577	4.581	4.581				4.551 - 4.611	4.579

FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1 Analy Batch No.: 162934

SDG No.:

Instrument ID: PE-02 GC Column: ZB-5 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/23/2014 10:33 Calibration End Date: 01/23/2014 11:59 Calibration ID: 17089

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 480-162934/3	PE02_38_197.D
Level 2	STD2 480-162934/4	PE02_38_198.D
Level 3	STD3 480-162934/5	PE02_38_199.D
Level 4	STD4 480-162934/6	PE02_38_200.D
Level 5	STD5 480-162934/7	PE02_38_201.D
Level 6	STD6 480-162934/8	PE02_38_202.D
Level 7	STD7 480-162934/9	PE02_38_203.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	1327400 940474	1141480 825359	1170580 +++++	1209290	Ave		1102430.50				17.0		20.0			
PCB-1016 Peak 2	3799650 2590572	3584920 2250896	3289350 +++++	3283015	Ave		3133067.17				19.0		20.0			
PCB-1016 Peak 3	1637650 1167388	1548260 1016685	1460860 +++++	1485370	Ave		1386035.50				17.0		20.0			
PCB-1016 Peak 4	1867850 1376198	1830360 1194422	1724920 +++++	1770535	Ave		1627380.83				17.0		20.0			
PCB-1260 Peak 1	5100450 3517418	4974900 3030030	4457310 +++++	4470210	Ave		4258386.33				19.0		20.0			
PCB-1260 Peak 2	2003800 1528488	2141060 1347818	1912130 +++++	1966530	Ave		1816637.67				17.0		20.0			
PCB-1260 Peak 3	7522650 5593576	7776140 4873310	6935480 +++++	7006775	Ave		6617988.50				17.0		20.0			
PCB-1260 Peak 4	3075850 2419590	3309200 2102310	3022560 +++++	3068760	Ave		2833045.00				16.0		20.0			
Tetrachloro-m-xylene	51886000 40091280	49055200 36367760	45709600 35743000	48299600	Ave		43878920.0				15.0		20.0			
DCB Decachlorobiphenyl	90082000 57424480	84272000 49418640	73856400 46675160	72770800	Lin	82612.3112	45556794.0							0.9970		0.9900

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.: 480-58807-1 Analy Batch No.: 162934

SDG No.:

Instrument ID: PE-02 GC Column: ZB-5 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/23/2014 10:33 Calibration End Date: 01/23/2014 11:59 Calibration ID: 17089

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 480-162934/3	PE02_38_197.D
Level 2	STD2 480-162934/4	PE02_38_198.D
Level 3	STD3 480-162934/5	PE02_38_199.D
Level 4	STD4 480-162934/6	PE02_38_200.D
Level 5	STD5 480-162934/7	PE02_38_201.D
Level 6	STD6 480-162934/8	PE02_38_202.D
Level 7	STD7 480-162934/9	PE02_38_203.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	26548 825359	57074 +++++	117058	241858	470237	0.0200 1.00	0.0500 +++++	0.100	0.200	0.500
PCB-1016 Peak 2	Ave	75993 2250896	179246 +++++	328935	656603	1295286	0.0200 1.00	0.0500 +++++	0.100	0.200	0.500
PCB-1016 Peak 3	Ave	32753 1016685	77413 +++++	146086	297074	583694	0.0200 1.00	0.0500 +++++	0.100	0.200	0.500
PCB-1016 Peak 4	Ave	37357 1194422	91518 +++++	172492	354107	688099	0.0200 1.00	0.0500 +++++	0.100	0.200	0.500
PCB-1260 Peak 1	Ave	102009 3030030	248745 +++++	445731	894042	1758709	0.0200 1.00	0.0500 +++++	0.100	0.200	0.500
PCB-1260 Peak 2	Ave	40076 1347818	107053 +++++	191213	393306	764244	0.0200 1.00	0.0500 +++++	0.100	0.200	0.500
PCB-1260 Peak 3	Ave	150453 4873310	388807 +++++	693548	1401355	2796788	0.0200 1.00	0.0500 +++++	0.100	0.200	0.500
PCB-1260 Peak 4	Ave	61517 2102310	165460 +++++	302256	613752	1209795	0.0200 1.00	0.0500 +++++	0.100	0.200	0.500
Tetrachloro-m-xylene	Ave	25943 909194	61319 1787150	114274	241498	501141	0.000500 0.0250	0.00125 0.0500	0.00250	0.00500	0.0125
DCB Decachlorobiphenyl	Lin	45041 1235466	105340 2333758	184641	363854	717806	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\PE-02\20140123-29005.b\PE02_38_197.D
Lims ID: STD1 Lab Sample ID:
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 23-Jan-2014 10:33:03 ALS Bottle#: 0 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: buftchrom Instrument ID: PE-02
Sublist: chrom-PCBS*sub1

Method: \\Bufchrom\ChromData\PE-02\20140123-29005.b\PCBS.m
Limit Group: GC - 8082A PCB ICAL
Last Update: 27-Jan-2014 10:44:09 Calib Date: 23-Jan-2014 15:20:22
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\PE-02\20140123-29005.b\PE02_38_217.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK034

First Level Reviewer: michalej Date: 24-Jan-2014 11:12:31

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	On-Col Amt ng/uL	Flags
$ 3 Tetrachloro-m-xylene						
1	1.477	1.479	-0.002	25943	0.000591	
2	1.831	1.833	-0.002	17381	0.000534	
					RPD = 10.11	
6 PCB-1016						
1	2.144	2.148	-0.004	26548	0.0241	
1	2.301	2.307	-0.006	75993	0.0243	
1	2.357	2.363	-0.006	32753	0.0236	
1	2.615	2.621	-0.006	37357	0.0230	
		Average of Peak Amounts =			0.0237	
2	2.263	2.267	-0.004	15899	0.0211	
2	2.757	2.763	-0.006	60397	0.0246	
2	2.837	2.843	-0.006	28516	0.0239	
2	2.901	2.907	-0.006	13902	0.0198	
		Average of Peak Amounts =			0.0224	
					RPD = 5.99	
9 PCB-1260						M
1	3.517	3.520	-0.003	102009	0.0240	M
1	3.711	3.713	-0.002	40076	0.0221	M
1	3.843	3.847	-0.004	150453	0.0227	M
1	3.979	3.983	-0.004	61517	0.0217	M
		Average of Peak Amounts =			0.0226	
2	4.273	4.279	-0.006	100938	0.0256	
2	4.679	4.685	-0.006	10916	0.0220	
2	4.725	4.731	-0.006	25394	0.0225	
2	4.888	4.893	-0.005	8788	0.0224	
		Average of Peak Amounts =			0.0231	
					RPD = 2.21	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	On-Col Amt ng/uL	Flags
$ 12 DCB Decachlorobiphenyl						
1	4.577	4.581	-0.004	45041	-0.000825	
2	5.028	5.033	-0.005	39694	-0.001407	
					RPD = -52.15	

QC Flag Legend

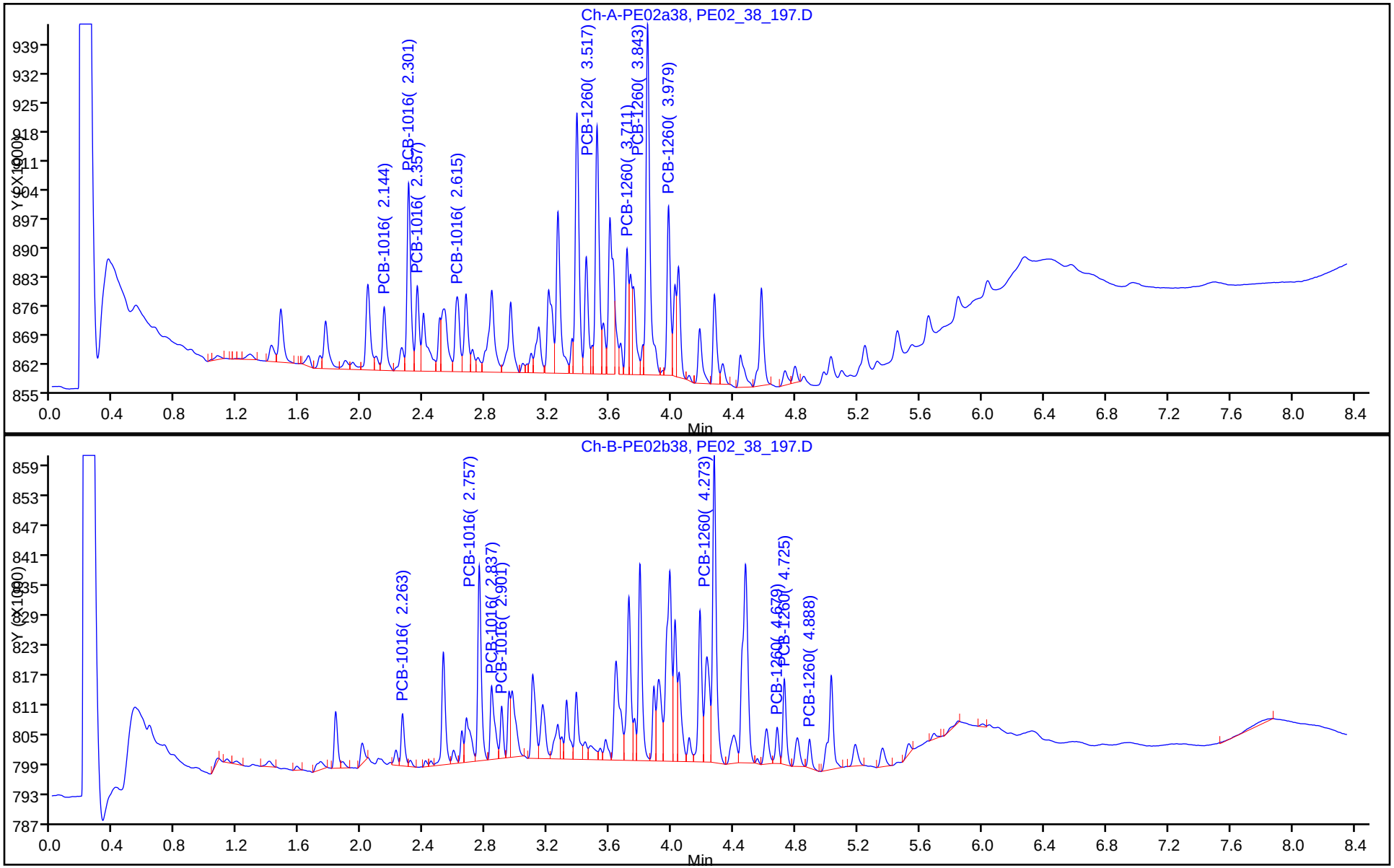
Review Flags
M - Manually Integrated

Report Date: 27-Jan-2014 10:44:11 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\PE-02\20140123-29005.b\PE02_38_197.D

Injection Date:	23-Jan-2014 10:33:03	Instrument ID:	PE-02	Operator ID:	buftchrom
Lims ID:	STD1	Lab Sample ID:		Worklist Smp#:	3
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	PCBS	Limit Group:	GC - 8082A PCB ICAL		



Report Date: 27-Jan-2014 10:44:11 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\PE-02\20140123-29005.b\PE02_38_197.D

Injection Date: 23-Jan-2014 10:33:03 Instrument ID: PE-02

Lims ID: STD1 Lab Sample ID:

Client ID:

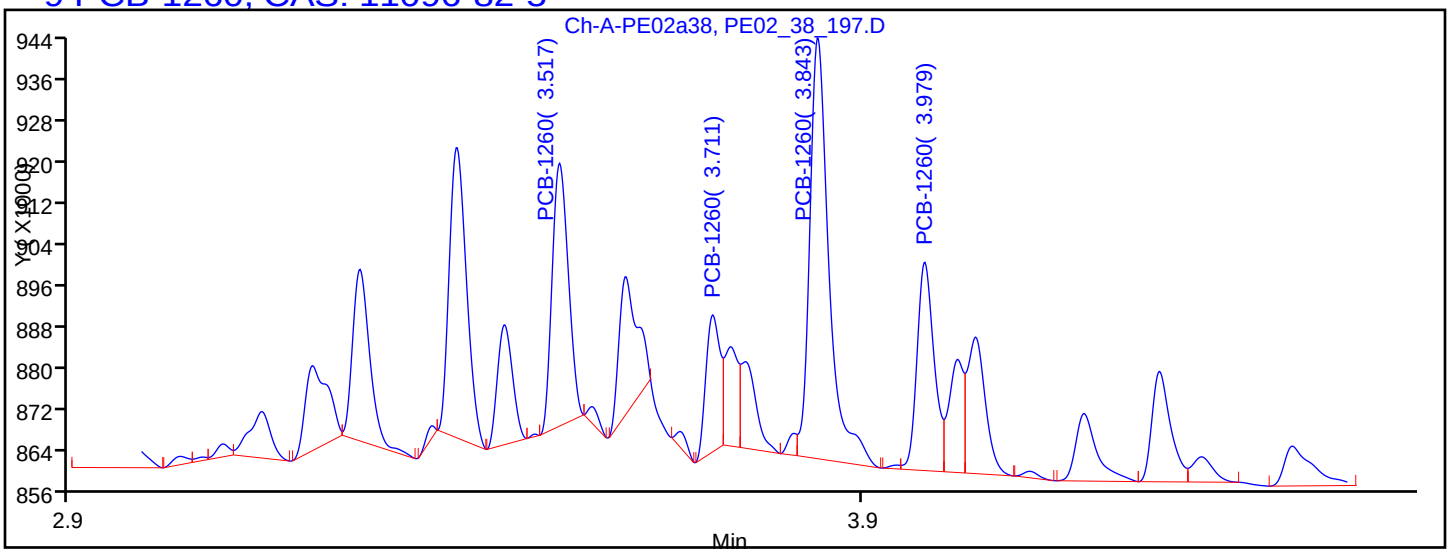
Operator ID: buftchrom ALS Bottle#: 0 Worklist Smp#: 3

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PCBS Limit Group: GC - 8082A PCB ICAL

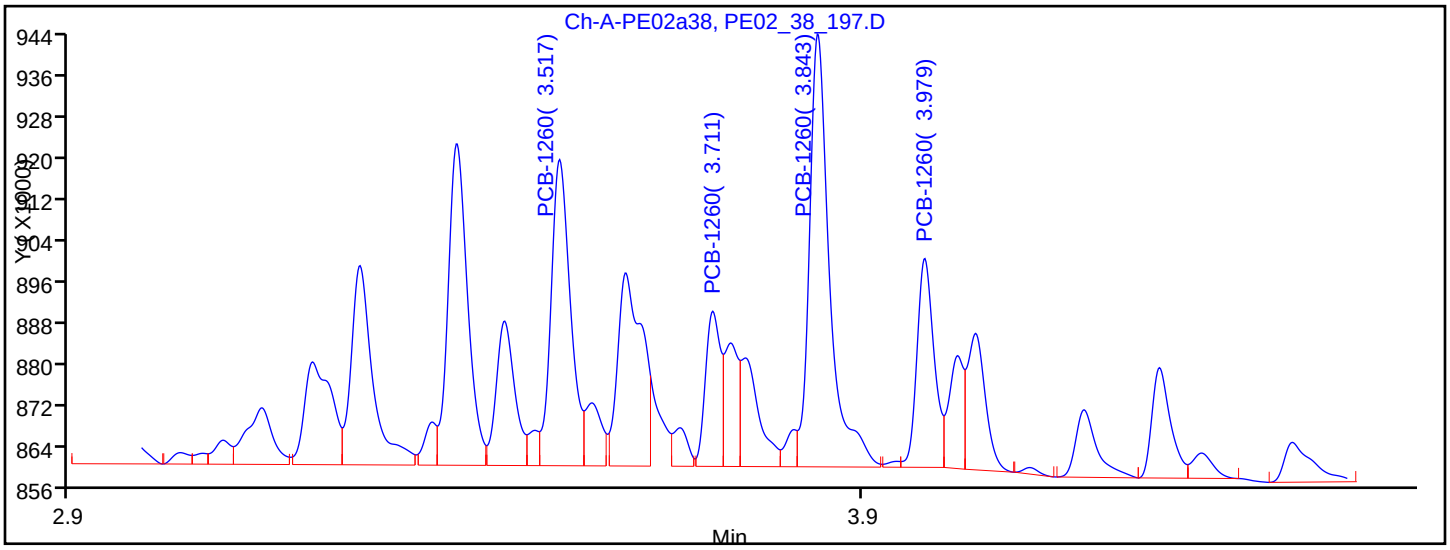
Column: Detector Ch-A-7A136

9 PCB-1260, CAS: 11096-82-5



Processing Integration Results

RT = 3.517	Response = 72962	M
RT = 3.711	Response = 33488	M
RT = 3.843	Response = 139579	M
RT = 3.979	Response = 61109	M



Manual Integration Results

RT = 3.517	Response = 102009	M
RT = 3.711	Response = 40076	M
RT = 3.843	Response = 150453	M
RT = 3.979	Response = 61517	M

Reviewer: michalej, 24-Jan-2014 11:12:31

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\PE-02\20140123-29005.b\PE02_38_198.D
Lims ID: STD2 Lab Sample ID:
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 23-Jan-2014 10:47:39 ALS Bottle#: 0 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: buftchrom Instrument ID: PE-02
Sublist: chrom-PCBS*sub1

Method: \\Bufchrom\ChromData\PE-02\20140123-29005.b\PCBS.m
Limit Group: GC - 8082A PCB ICAL
Last Update: 27-Jan-2014 10:44:12 Calib Date: 23-Jan-2014 15:20:22
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\PE-02\20140123-29005.b\PE02_38_217.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK034

First Level Reviewer: michalej Date: 23-Jan-2014 13:29:03

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	On-Col Amt ng/uL	Flags
$ 3 Tetrachloro-m-xylene						
1	1.479	1.479	0.0	61319	0.001397	
2	1.835	1.833	0.002	46341	0.001425	
					RPD = 1.92	
6 PCB-1016						M
1	2.149	2.148	0.001	57074	0.0518	
1	2.307	2.307	0.0	179246	0.0572	M
1	2.363	2.363	0.0	77413	0.0559	M
1	2.623	2.621	0.002	91518	0.0562	M
		Average of Peak Amounts =			0.0553	
2	2.268	2.267	0.001	43627	0.0579	
2	2.764	2.763	0.001	145524	0.0593	
2	2.844	2.843	0.001	69682	0.0584	
2	2.909	2.907	0.002	38988	0.0555	
		Average of Peak Amounts =			0.0578	
					RPD = 4.44	
9 PCB-1260						M
1	3.523	3.520	0.003	248745	0.0584	M
1	3.716	3.713	0.003	107053	0.0589	M
1	3.849	3.847	0.002	388807	0.0588	M
1	3.984	3.983	0.001	165460	0.0584	M
		Average of Peak Amounts =			0.0586	
2	4.280	4.279	0.001	222756	0.0564	
2	4.685	4.685	0.0	22732	0.0459	
2	4.731	4.731	0.0	60677	0.0537	
2	4.893	4.893	0.0	21435	0.0546	
		Average of Peak Amounts =			0.0527	
					RPD = 10.70	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	On-Col Amt ng/uL	Flags
$ 12 DCB Decachlorobiphenyl						
1	4.583	4.581	0.002	105340	0.000499	
2	5.035	5.033	0.002	84635	0.000172	
					RPD = 97.60	

QC Flag Legend

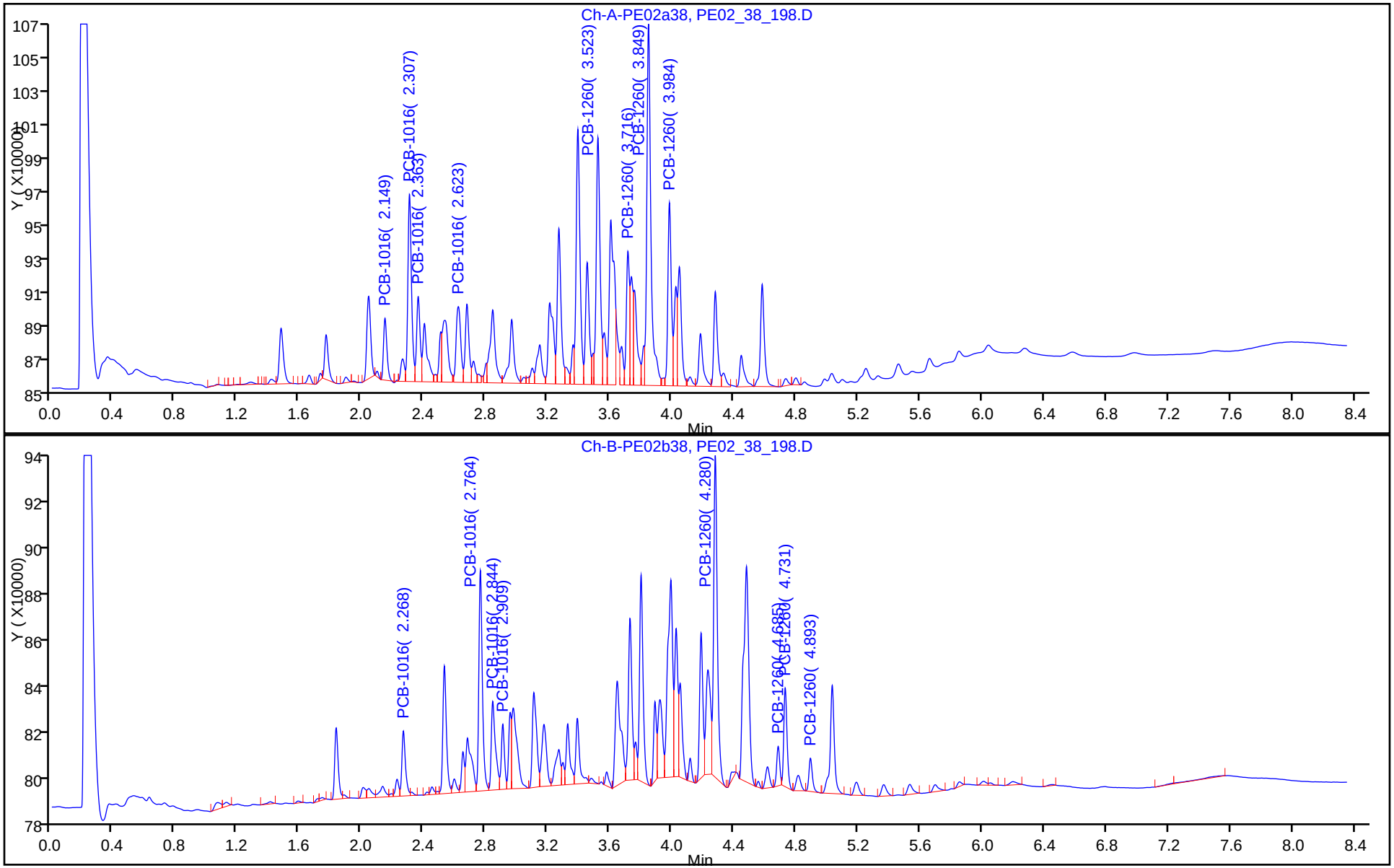
Review Flags
M - Manually Integrated

Report Date: 27-Jan-2014 10:44:13 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\PE-02\20140123-29005.b\PE02_38_198.D

Injection Date:	23-Jan-2014 10:47:39	Instrument ID:	PE-02	Operator ID:	buftchrom
Lims ID:	STD2	Lab Sample ID:		Worklist Smp#:	4
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	PCBS	Limit Group:	GC - 8082A PCB ICAL		



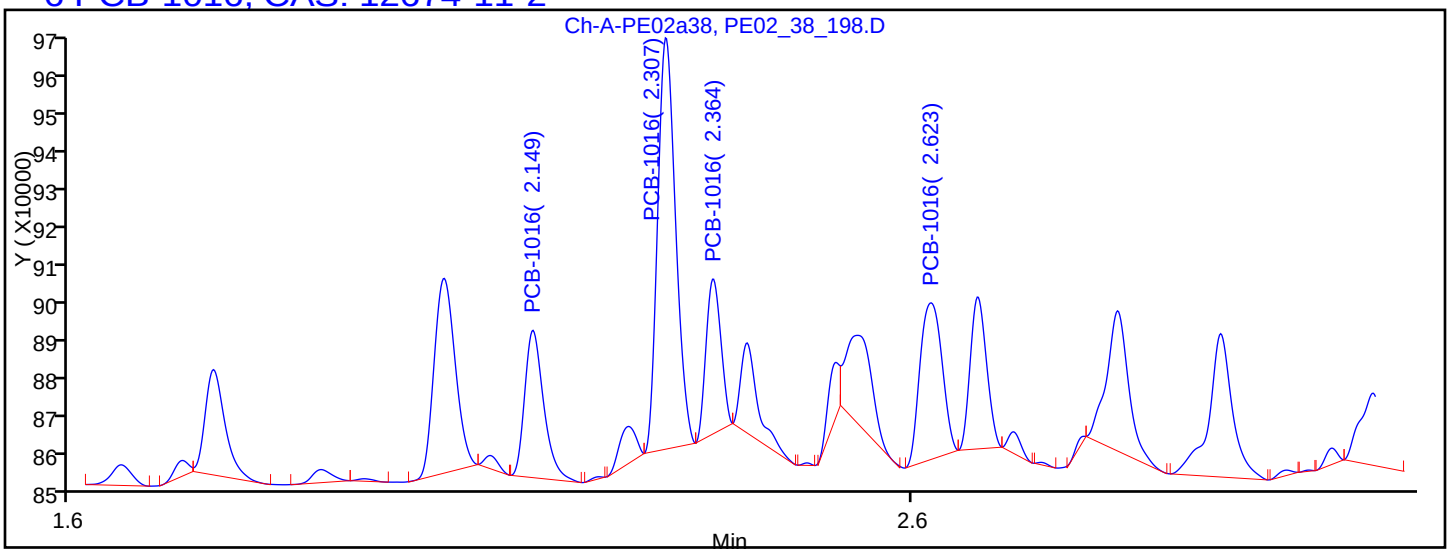
Report Date: 27-Jan-2014 10:44:13 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\PE-02\20140123-29005.b\PE02_38_198.D

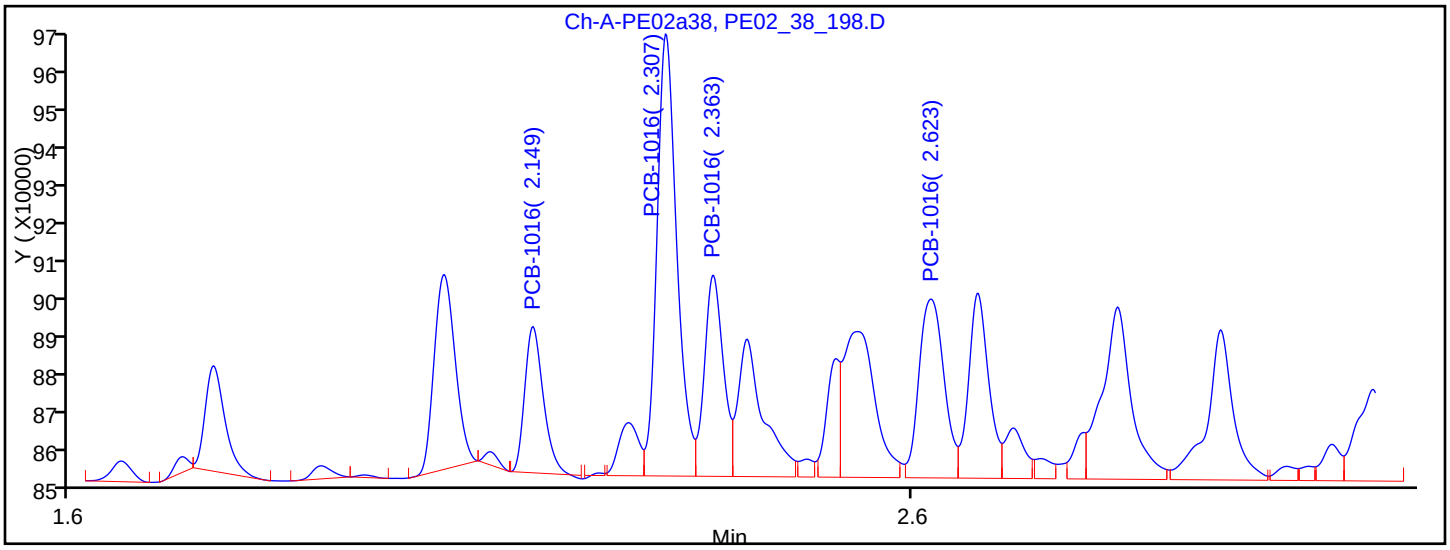
Injection Date:	23-Jan-2014 10:47:39	Instrument ID:	PE-02		
Lims ID:	STD2	Lab Sample ID:			
Client ID:					
Operator ID:	buftchrom	ALS Bottle#:	0	Worklist Smp#:	4
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	PCBS	Limit Group:	GC - 8082A PCB ICAL		
Column:		Detector	Ch-A-7A136		

6 PCB-1016, CAS: 12674-11-2



Processing Integration Results

RT = 2.149	Response = 57074	
RT = 2.307	Response = 150746	M
RT = 2.364	Response = 46986	M
RT = 2.623	Response = 70729	M



Manual Integration Results

RT = 2.149	Response = 57074	
RT = 2.307	Response = 179246	M
RT = 2.363	Response = 77413	M
RT = 2.623	Response = 91518	M

Reviewer: michalej, 24-Jan-2014 11:53:45

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

Report Date: 27-Jan-2014 10:44:13 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\PE-02\20140123-29005.b\PE02_38_198.D

Injection Date: 23-Jan-2014 10:47:39 Instrument ID: PE-02

Lims ID: STD2 Lab Sample ID:

Client ID:

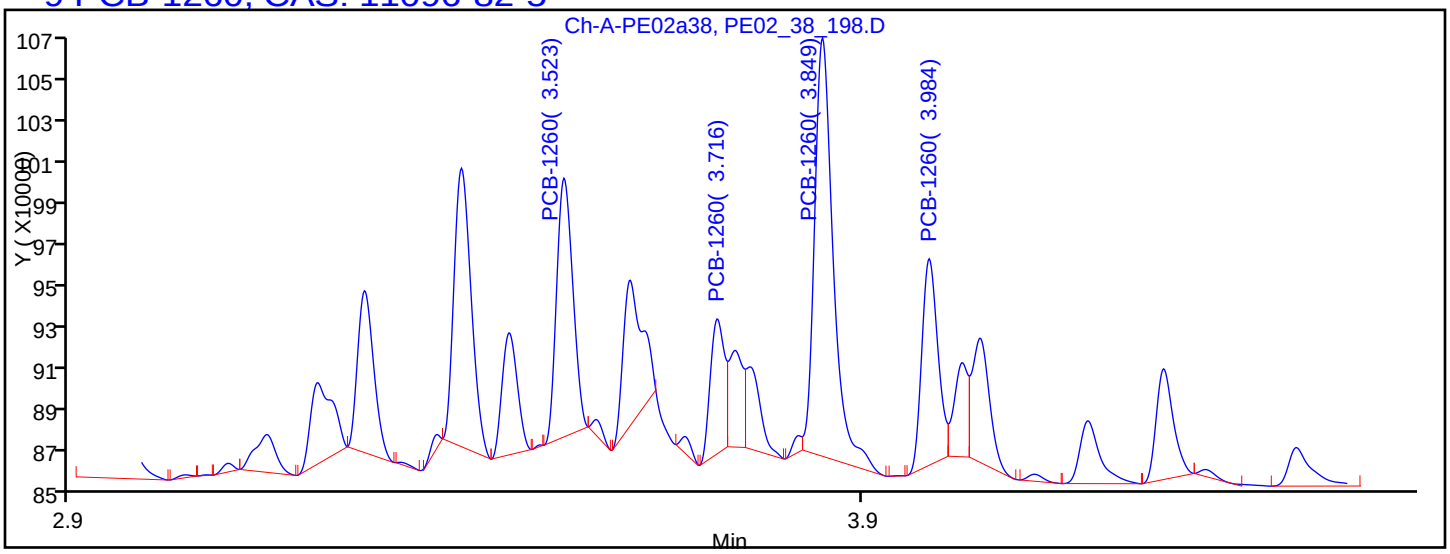
Operator ID: buftchrom ALS Bottle#: 0 Worklist Smp#: 4

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: PCBS Limit Group: GC - 8082A PCB ICAL

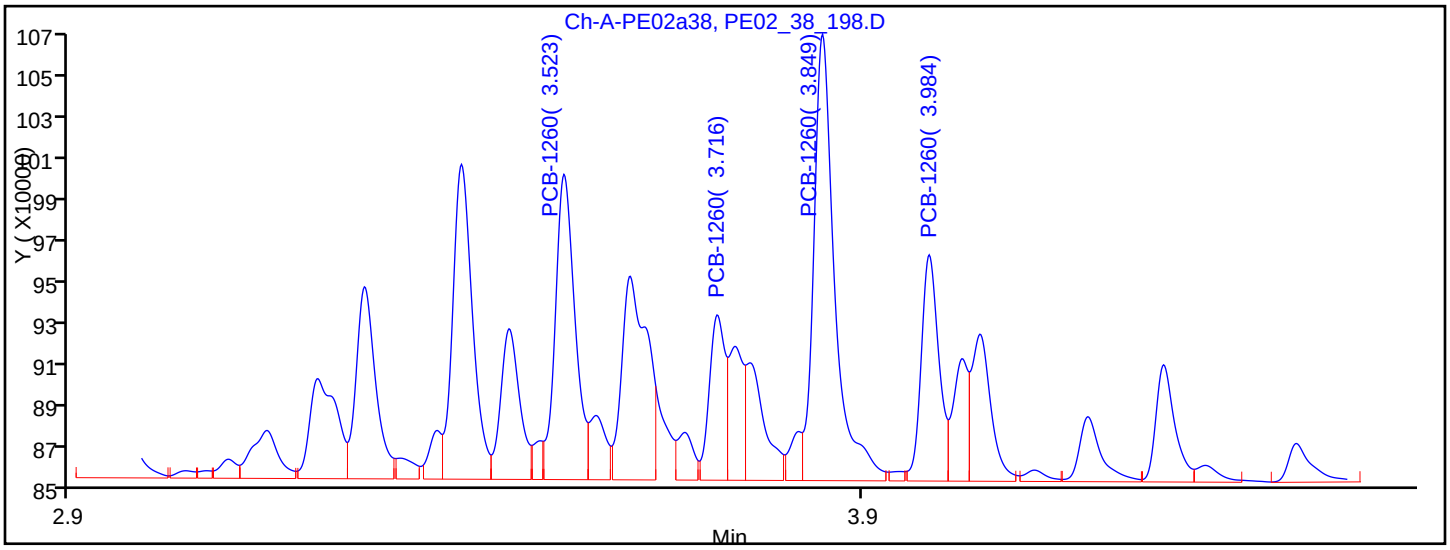
Column: Detector Ch-A-7A136

9 PCB-1260, CAS: 11096-82-5



Processing Integration Results

RT = 3.523	Response = 173415	M
RT = 3.716	Response = 79415	M
RT = 3.849	Response = 324226	M
RT = 3.984	Response = 137318	M



Manual Integration Results

RT = 3.523	Response = 248745	M
RT = 3.716	Response = 107053	M
RT = 3.849	Response = 388807	M
RT = 3.984	Response = 165460	M

Reviewer: michalej, 24-Jan-2014 11:53:45

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\PE-02\20140123-29005.b\PE02_38_199.D
Lims ID: std3 Lab Sample ID:
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 23-Jan-2014 11:02:12 ALS Bottle#: 0 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: buftchrom Instrument ID: PE-02
Sublist: chrom-PCBS*sub1

Method: \\Bufchrom\ChromData\PE-02\20140123-29005.b\PCBS.m
Limit Group: GC - 8082A PCB ICAL
Last Update: 27-Jan-2014 10:44:14 Calib Date: 23-Jan-2014 15:20:22
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\PE-02\20140123-29005.b\PE02_38_217.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK034

First Level Reviewer: michalej Date: 23-Jan-2014 13:31:12

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	On-Col Amt ng/uL	Flags
$ 3 Tetrachloro-m-xylene						
1	1.479	1.479	0.0	114274	0.002604	
2	1.833	1.833	0.0	89960	0.002766	
					RPD = 6.01	
6 PCB-1016						
1	2.148	2.148	0.0	117058	0.1062	
1	2.305	2.307	-0.002	328935	0.1050	
1	2.363	2.363	0.0	146086	0.1054	
1	2.621	2.621	0.0	172492	0.1060	
		Average of Peak Amounts =			0.1056	
2	2.267	2.267	0.0	80360	0.1067	
2	2.763	2.763	0.0	259009	0.1055	
2	2.843	2.843	0.0	127663	0.1069	
2	2.908	2.907	0.001	76977	0.1096	
		Average of Peak Amounts =			0.1072	
					RPD = 1.46	
9 PCB-1260						
1	3.521	3.520	0.001	445731	0.1047	
1	3.713	3.713	0.0	191213	0.1053	
1	3.847	3.847	0.0	693548	0.1048	
1	3.983	3.983	0.0	302256	0.1067	
		Average of Peak Amounts =			0.1054	
2	4.280	4.279	0.001	427888	0.1084	
2	4.685	4.685	0.0	56625	0.1143	
2	4.731	4.731	0.0	125788	0.1114	
2	4.893	4.893	0.0	41423	0.1055	
		Average of Peak Amounts =			0.1099	
					RPD = 4.24	

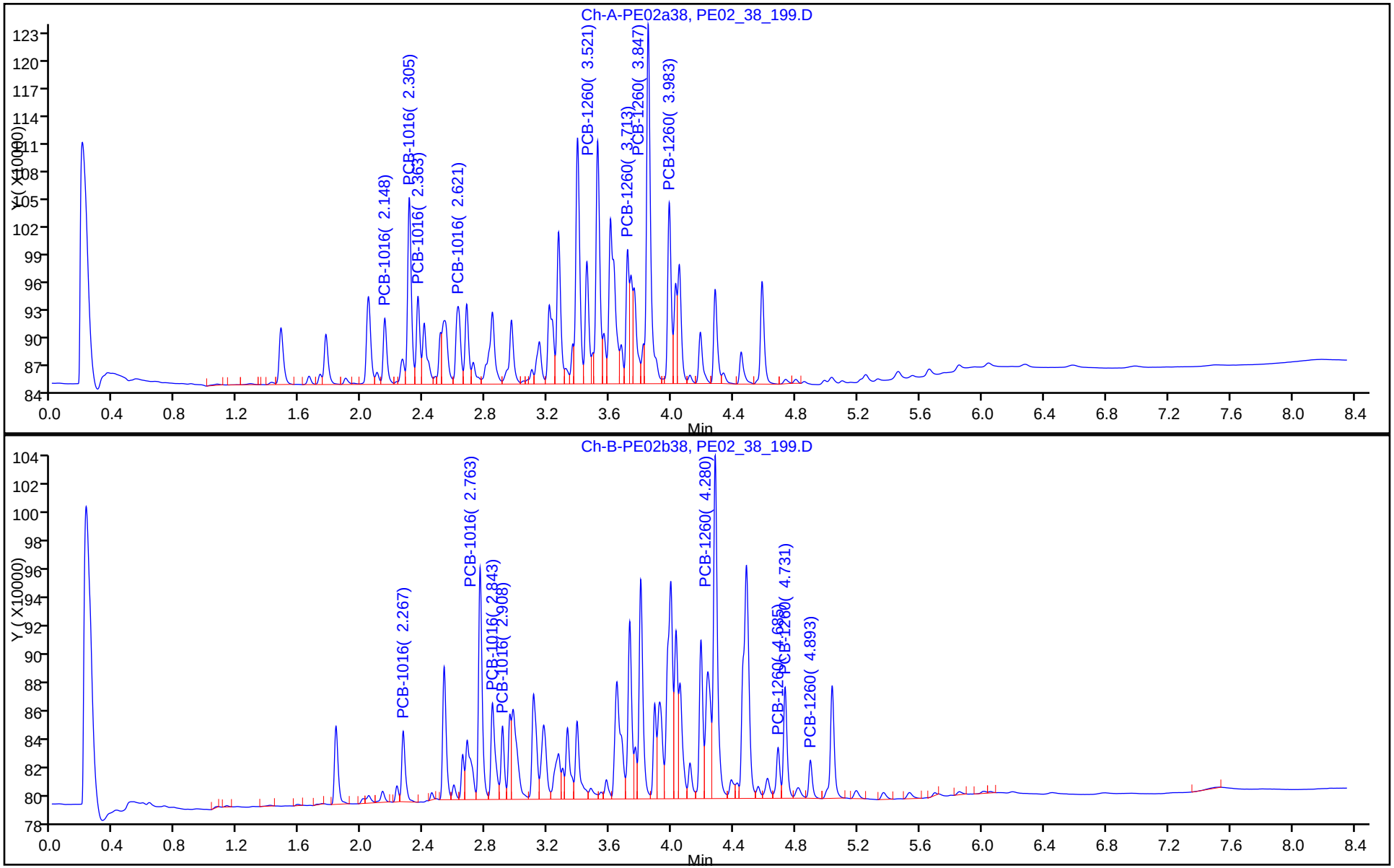
Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	On-Col Amt ng/uL	Flags
$ 12 DCB Decachlorobiphenyl						
1	4.581	4.581	0.0	184641	0.002240	
2	5.033	5.033	0.0	140115	0.002120	
					RPD = 5.49	

Report Date: 27-Jan-2014 10:44:15 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\PE-02\20140123-29005.b\PE02_38_199.D

Injection Date:	23-Jan-2014 11:02:12	Instrument ID:	PE-02	Operator ID:	buftchrom
Lims ID:	std3	Lab Sample ID:		Worklist Smp#:	5
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	PCBS	Limit Group:	GC - 8082A PCB ICAL		



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\PE-02\20140123-29005.b\PE02_38_200.D
Lims ID: STD4 Lab Sample ID:
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 23-Jan-2014 11:16:47 ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: buftchrom Instrument ID: PE-02
Sublist: chrom-PCBS*sub1

Method: \\Bufchrom\ChromData\PE-02\20140123-29005.b\PCBS.m
Limit Group: GC - 8082A PCB ICAL
Last Update: 27-Jan-2014 10:44:17 Calib Date: 23-Jan-2014 15:20:22
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\PE-02\20140123-29005.b\PE02_38_217.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK034

First Level Reviewer: michalej Date: 23-Jan-2014 13:33:56

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	On-Col Amt ng/uL	Flags
$ 3 Tetrachloro-m-xylene						
1	1.473	1.479	-0.006	241498	0.005504	
2	1.828	1.833	-0.005	183695	0.005647	
					RPD = 2.57	
6 PCB-1016						
1	2.141	2.148	-0.007	241858	0.2194	
1	2.299	2.307	-0.008	656603	0.2096	
1	2.355	2.363	-0.008	297074	0.2143	
1	2.615	2.621	-0.006	354107	0.2176	
		Average of Peak Amounts =			0.2152	
2	2.260	2.267	-0.007	165187	0.2193	
2	2.756	2.763	-0.007	502749	0.2049	
2	2.836	2.843	-0.007	249157	0.2087	
2	2.900	2.907	-0.007	155529	0.2215	
		Average of Peak Amounts =			0.2136	
					RPD = 0.76	
9 PCB-1260						
1	3.515	3.520	-0.005	894042	0.2099	
1	3.707	3.713	-0.006	393306	0.2165	
1	3.840	3.847	-0.007	1401355	0.2117	
1	3.976	3.983	-0.007	613752	0.2166	
		Average of Peak Amounts =			0.2137	
2	4.273	4.279	-0.006	816520	0.2069	
2	4.680	4.685	-0.005	113042	0.2282	
2	4.725	4.731	-0.006	246575	0.2184	
2	4.888	4.893	-0.005	83110	0.2117	
		Average of Peak Amounts =			0.2163	
					RPD = 1.20	

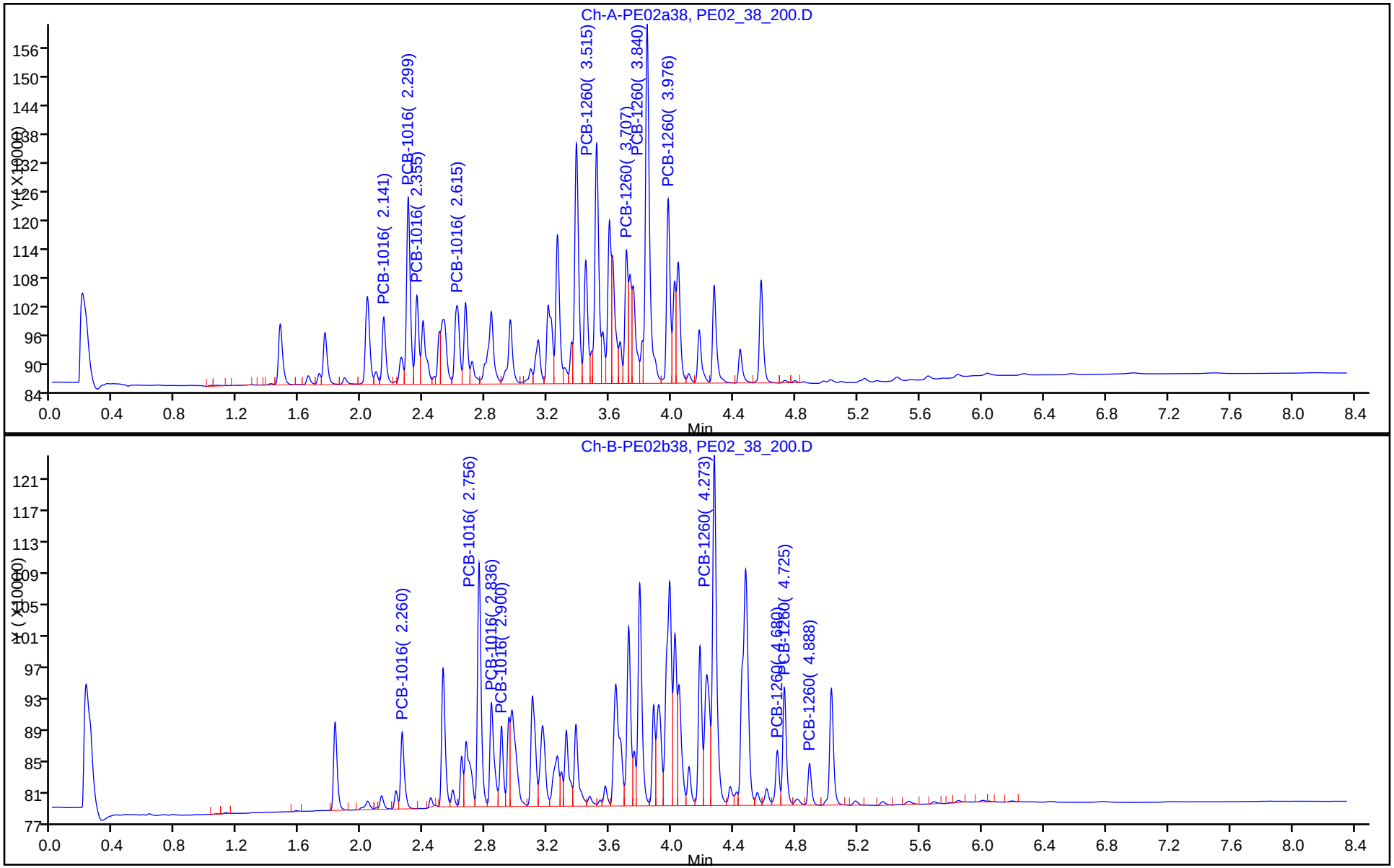
Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	On-Col Amt ng/uL	Flags
$ 12 DCB Decachlorobiphenyl						
1	4.576	4.581	-0.005	363854	0.006173	
2	5.029	5.033	-0.004	259319	0.006306	
					RPD = 2.13	

Report Date: 27-Jan-2014 10:44:18 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\PE-02\20140123-29005.b\PE02_38_200.D

Injection Date:	23-Jan-2014 11:16:47	Instrument ID:	PE-02	Operator ID:	buftchrom
Lims ID:	STD4	Lab Sample ID:		Worklist Smp#:	6
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	PCBS	Limit Group:	GC - 8082A PCB ICAL		



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\PE-02\20140123-29005.b\PE02_38_201.D
Lims ID: STD5 Lab Sample ID:
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 23-Jan-2014 11:31:08 ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: buftchrom Instrument ID: PE-02
Sublist: chrom-PCBS*sub1

Method: \\Bufchrom\ChromData\PE-02\20140123-29005.b\PCBS.m
Limit Group: GC - 8082A PCB ICAL
Last Update: 27-Jan-2014 10:44:21 Calib Date: 23-Jan-2014 15:20:22
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\PE-02\20140123-29005.b\PE02_38_217.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK034

First Level Reviewer: michalej Date: 24-Jan-2014 08:59:18

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	On-Col Amt ng/uL	Flags
$ 3 Tetrachloro-m-xylene						
1	1.476	1.479	-0.003	501141	0.0114	
2	1.831	1.833	-0.002	376026	0.0116	
					RPD = 1.21	
6 PCB-1016						
1	2.144	2.148	-0.004	470237	0.4265	
1	2.301	2.307	-0.006	1295286	0.4134	
1	2.357	2.363	-0.006	583694	0.4211	
1	2.617	2.621	-0.004	688099	0.4228	
		Average of Peak Amounts =			0.4210	
2	2.261	2.267	-0.006	330204	0.4385	
2	2.759	2.763	-0.004	995241	0.4055	
2	2.839	2.843	-0.004	493211	0.4131	
2	2.903	2.907	-0.004	318552	0.4537	
		Average of Peak Amounts =			0.4277	
					RPD = 1.58	
9 PCB-1260						
1	3.516	3.520	-0.004	1758709	0.4130	
1	3.711	3.713	-0.002	764244	0.4207	
1	3.843	3.847	-0.004	2796788	0.4226	
1	3.979	3.983	-0.004	1209795	0.4270	
		Average of Peak Amounts =			0.4208	
2	4.275	4.279	-0.004	1580880	0.4005	
2	4.681	4.685	-0.004	228544	0.4613	
2	4.727	4.731	-0.004	488642	0.4328	
2	4.889	4.893	-0.004	178672	0.4552	
		Average of Peak Amounts =			0.4375	
					RPD = 3.88	

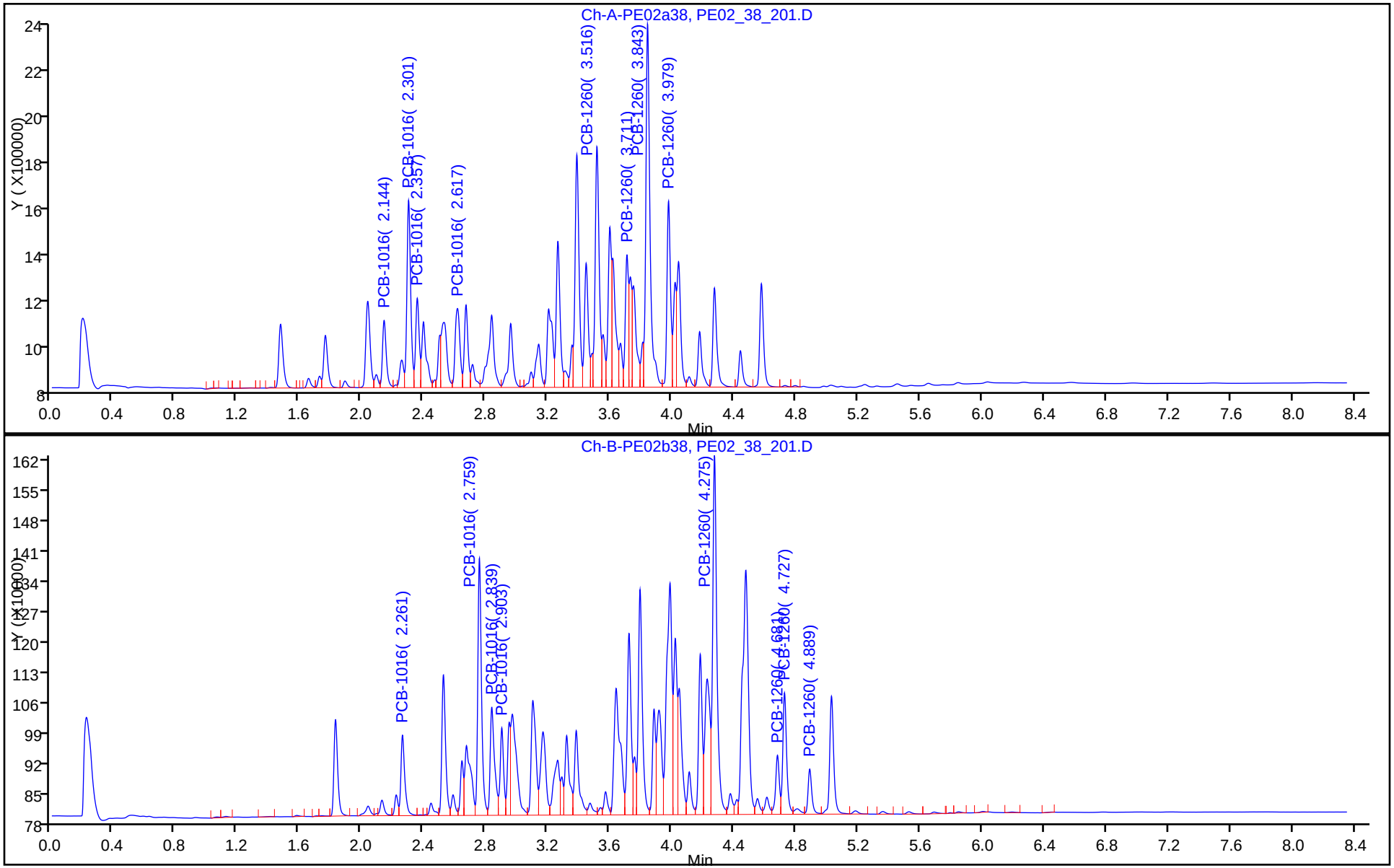
Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	On-Col Amt ng/uL	Flags
$ 12 DCB Decachlorobiphenyl						
1	4.577	4.581	-0.004	717806	0.0139	
2	5.029	5.033	-0.004	499782	0.0148	
					RPD = 5.63	

Report Date: 27-Jan-2014 10:44:22 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\PE-02\20140123-29005.b\PE02_38_201.D

Injection Date:	23-Jan-2014 11:31:08	Instrument ID:	PE-02	Operator ID:	buftchrom
Lims ID:	STD5	Lab Sample ID:		Worklist Smp#:	7
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	PCBS	Limit Group:	GC - 8082A PCB ICAL		



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\PE-02\20140123-29005.b\PE02_38_202.D
Lims ID: STD6 Lab Sample ID:
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 23-Jan-2014 11:45:26 ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: buftchrom Instrument ID: PE-02
Sublist: chrom-PCBS*sub1

Method: \\Bufchrom\ChromData\PE-02\20140123-29005.b\PCBS.m
Limit Group: GC - 8082A PCB ICAL
Last Update: 27-Jan-2014 10:44:25 Calib Date: 23-Jan-2014 15:20:22
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\PE-02\20140123-29005.b\PE02_38_217.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK034

First Level Reviewer: michalej Date: 24-Jan-2014 08:58:53

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	On-Col Amt ng/uL	Flags
$ 3 Tetrachloro-m-xylene						
1	1.479	1.479	0.0	909194	0.0207	
2	1.833	1.833	0.0	670260	0.0206	
					RPD = 0.56	
6 PCB-1016						
1	2.149	2.148	0.001	825359	0.7487	
1	2.307	2.307	0.0	2250896	0.7184	
1	2.363	2.363	0.0	1016685	0.7335	
1	2.623	2.621	0.002	1194422	0.7340	
		Average of Peak Amounts =			0.7336	
2	2.268	2.267	0.001	561205	0.7452	
2	2.764	2.763	0.001	1700498	0.6929	
2	2.843	2.843	0.0	836005	0.7001	
2	2.908	2.907	0.001	553248	0.7880	
		Average of Peak Amounts =			0.7316	
					RPD = 0.29	
9 PCB-1260						
1	3.521	3.520	0.001	3030030	0.7115	
1	3.715	3.713	0.002	1347818	0.7419	
1	3.848	3.847	0.001	4873310	0.7364	
1	3.983	3.983	0.0	2102310	0.7421	
		Average of Peak Amounts =			0.7330	
2	4.279	4.279	0.0	2659144	0.6736	
2	4.685	4.685	0.0	383494	0.7741	
2	4.731	4.731	0.0	822261	0.7284	
2	4.893	4.893	0.0	299833	0.7639	
		Average of Peak Amounts =			0.7350	
					RPD = 0.27	

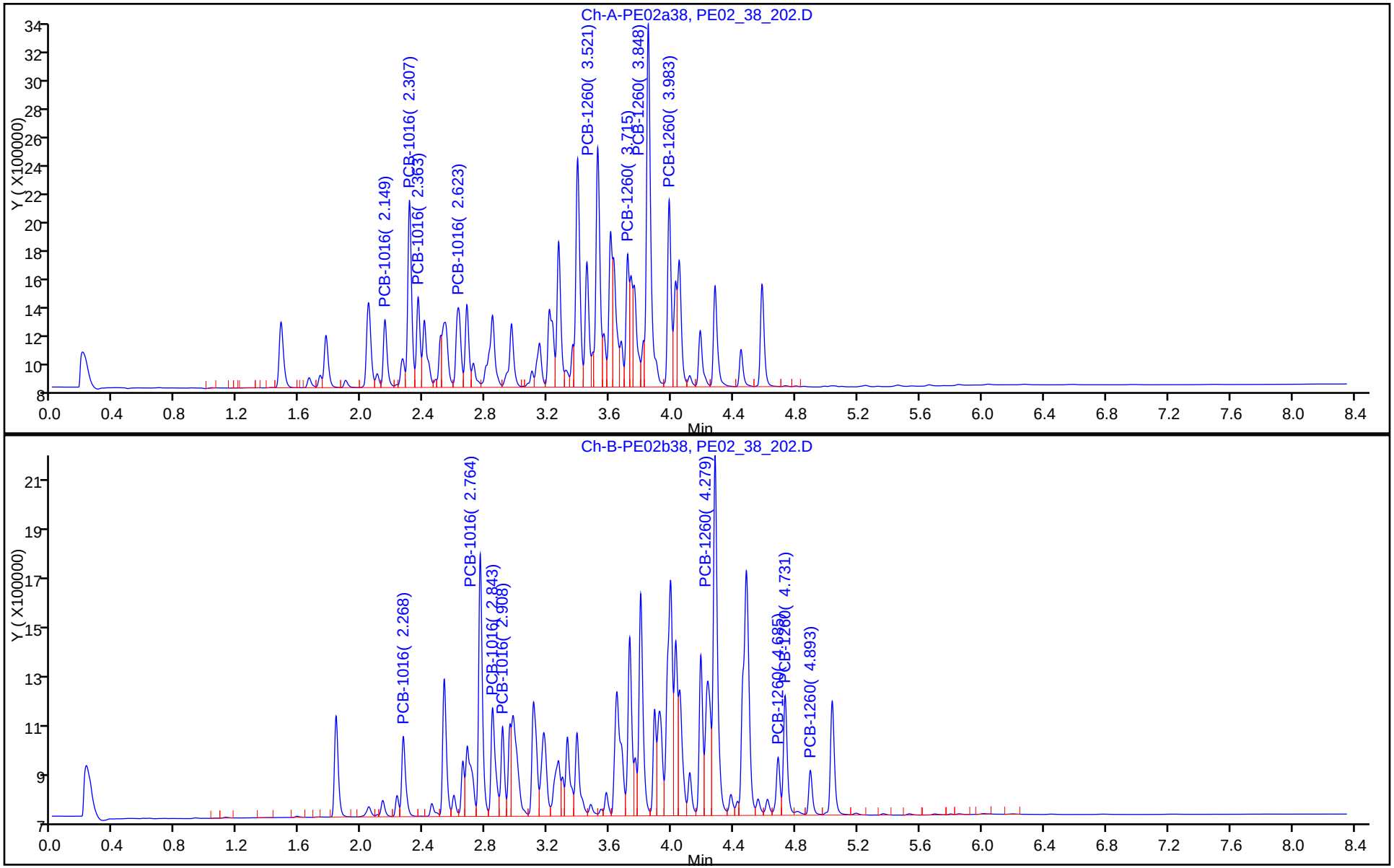
Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	On-Col Amt ng/uL	Flags
$ 12 DCB Decachlorobiphenyl						
1	4.581	4.581	0.0	1235466	0.0253	
2	5.035	5.033	0.002	816494	0.0259	
					RPD = 2.22	

Report Date: 27-Jan-2014 10:44:26 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\PE-02\20140123-29005.b\PE02_38_202.D

Injection Date:	23-Jan-2014 11:45:26	Instrument ID:	PE-02	Operator ID:	buftchrom
Lims ID:	STD6	Lab Sample ID:		Worklist Smp#:	8
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	PCBS	Limit Group:	GC - 8082A PCB ICAL		



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\PE-02\20140123-29005.b\PE02_38_203.D
Lims ID: STD7 Lab Sample ID:
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 23-Jan-2014 11:59:49 ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: buftchrom Instrument ID: PE-02
Sublist: chrom-PCBS*sub1

Method: \\Bufchrom\ChromData\PE-02\20140123-29005.b\PCBS.m
Limit Group: GC - 8082A PCB ICAL
Last Update: 27-Jan-2014 10:44:29 Calib Date: 23-Jan-2014 15:20:22
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\PE-02\20140123-29005.b\PE02_38_217.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK034

First Level Reviewer: michalej Date: 24-Jan-2014 08:59:22

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	On-Col Amt ng/uL	Flags
$ 3 Tetrachloro-m-xylene						
1	1.479	1.479	0.0	1787150	0.0407	
2	1.833	1.833	0.0	1312617	0.0404	
					RPD = 0.93	
6 PCB-1016						
1	2.148	2.148	0.0	1545396	1.40	
1	2.307	2.307	0.0	4162694	1.33	
1	2.363	2.363	0.0	1899384	1.37	
1	2.621	2.621	0.0	2213371	1.36	
		Average of Peak Amounts =			1.37	
2	2.267	2.267	0.0	1028749	1.37	
2	2.763	2.763	0.0	3159667	1.29	
2	2.843	2.843	0.0	1537512	1.29	
2	2.907	2.907	0.0	1047617	1.49	
		Average of Peak Amounts =			1.36	
					RPD = 0.51	
9 PCB-1260						
1	3.520	3.520	0.0	5698227	1.34	
1	3.713	3.713	0.0	2508606	1.38	
1	3.847	3.847	0.0	9231219	1.39	
1	3.983	3.983	0.0	4032724	1.42	
		Average of Peak Amounts =			1.38	
2	4.279	4.279	0.0	4949006	1.25	
2	4.685	4.685	0.0	712494	1.44	
2	4.731	4.731	0.0	1529780	1.36	
2	4.893	4.893	0.0	557629	1.42	
		Average of Peak Amounts =			1.37	
					RPD = 1.27	

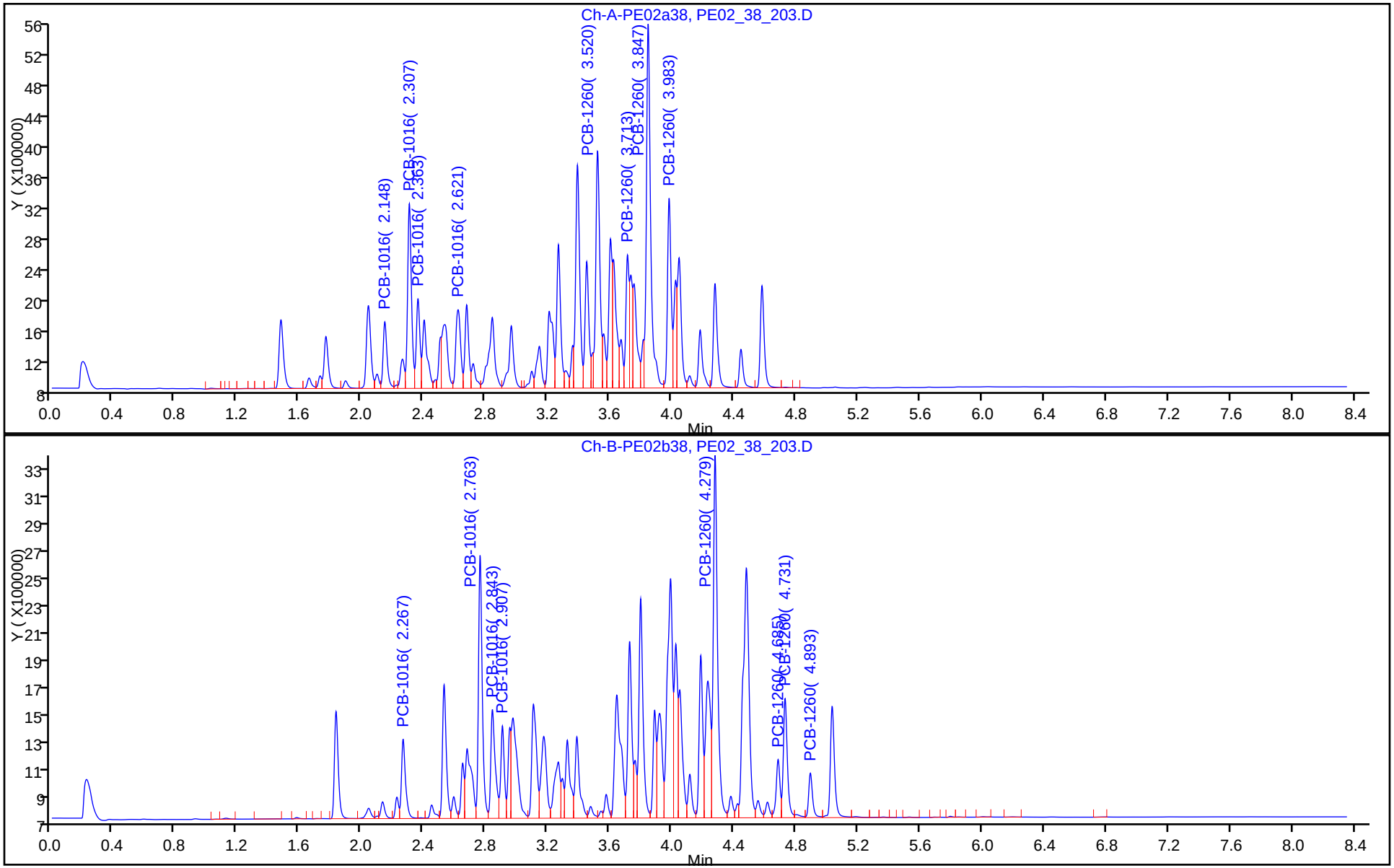
Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	On-Col Amt ng/uL	Flags
$ 12 DCB Decachlorobiphenyl						
1	4.581	4.581	0.0	2333758	0.0494	
2	5.033	5.033	0.0	1473218	0.0489	
					RPD = 0.97	

Report Date: 27-Jan-2014 10:44:29 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\PE-02\20140123-29005.b\PE02_38_203.D

Injection Date:	23-Jan-2014 11:59:49	Instrument ID:	PE-02	Operator ID:	buftchrom
Lims ID:	STD7	Lab Sample ID:		Worklist Smp#:	9
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	PCBS	Limit Group:	GC - 8082A PCB ICAL		



FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1 Analy Batch No.: 162934

SDG No.:

Instrument ID: PE-02 GC Column: ZB-35 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/23/2014 10:33 Calibration End Date: 01/23/2014 11:59 Calibration ID: 17090

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 480-162934/3	PE02_38_197.D
Level 2	STD2 480-162934/4	PE02_38_198.D
Level 3	STD3 480-162934/5	PE02_38_199.D
Level 4	STD4 480-162934/6	PE02_38_200.D
Level 5	STD5 480-162934/7	PE02_38_201.D
Level 6	STD6 480-162934/8	PE02_38_202.D
Level 7	STD7 480-162934/9	PE02_38_203.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	LVL 7				RT WINDOW	AVG RT
PCB-1016 Peak 1	2.263	2.268	2.267	2.260	2.261	2.268	+++++				2.237 - 2.297	2.265
PCB-1016 Peak 2	2.757	2.764	2.763	2.756	2.759	2.764	+++++				2.733 - 2.793	2.761
PCB-1016 Peak 3	2.837	2.844	2.843	2.836	2.839	2.843	+++++				2.813 - 2.873	2.840
PCB-1016 Peak 4	2.901	2.909	2.908	2.900	2.903	2.908	+++++				2.877 - 2.937	2.905
PCB-1260 Peak 1	4.273	4.280	4.280	4.273	4.275	4.279	+++++				4.249 - 4.309	4.277
PCB-1260 Peak 2	4.679	4.685	4.685	4.680	4.681	4.685	+++++				4.655 - 4.715	4.683
PCB-1260 Peak 3	4.725	4.731	4.731	4.725	4.727	4.731	+++++				4.701 - 4.761	4.728
PCB-1260 Peak 4	4.888	4.893	4.893	4.888	4.889	4.893	+++++				4.863 - 4.923	4.891
Tetrachloro-m-xylene	1.831	1.835	1.833	1.828	1.831	1.833	1.833				1.803 - 1.863	1.832
DCB Decachlorobiphenyl	5.028	5.035	5.033	5.029	5.029	5.035	5.033				5.003 - 5.063	5.032

FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1 Analy Batch No.: 162934

SDG No.:

Instrument ID: PE-02 GC Column: ZB-35 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/23/2014 10:33 Calibration End Date: 01/23/2014 11:59 Calibration ID: 17090

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 480-162934/3	PE02_38_197.D
Level 2	STD2 480-162934/4	PE02_38_198.D
Level 3	STD3 480-162934/5	PE02_38_199.D
Level 4	STD4 480-162934/6	PE02_38_200.D
Level 5	STD5 480-162934/7	PE02_38_201.D
Level 6	STD6 480-162934/8	PE02_38_202.D
Level 7	STD7 480-162934/9	PE02_38_203.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	794950 660408	872540 561205	803600 +++++	825935	Ave		753106.333				16.0		20.0			
PCB-1016 Peak 2	3019850 1990482	2910480 1700498	2590090 +++++	2513745	Ave		2454190.83				21.0	*	20.0			
PCB-1016 Peak 3	1425800 986422	1393640 836005	1276630 +++++	1245785	Ave		1194047.00				20.0		20.0			
PCB-1016 Peak 4	695100 637104	779760 553248	769770 +++++	777645	Ave		702104.500				13.0		20.0			
PCB-1260 Peak 1	5046900 3161760	4455120 2659144	4278880 +++++	4082600	Ave		3947400.67				22.0	*	20.0			
PCB-1260 Peak 2	545800 457088	454640 383494	566250 +++++	565210	Ave		495413.667				15.0		20.0			
PCB-1260 Peak 3	1269700 977284	1213540 822261	1257880 +++++	1232875	Ave		1128923.33				16.0		20.0			
PCB-1260 Peak 4	439400 357344	428700 299833	414230 +++++	415550	Ave		392509.500				14.0		20.0			
Tetrachloro-m-xylene	34762000 30082080	37072800 26810400	35984000 26252340	36739000	Ave		32528945.7				14.0		20.0			
DCB Decachlorobiphenyl	79388000 39982560	67708000 32659760	56046000 29464360	51863800	Lin	79746.8626	28475751.5							0.9930		0.9900

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.: 480-58807-1 Analy Batch No.: 162934

SDG No.:

Instrument ID: PE-02 GC Column: ZB-35 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/23/2014 10:33 Calibration End Date: 01/23/2014 11:59 Calibration ID: 17090

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 480-162934/3	PE02_38_197.D
Level 2	STD2 480-162934/4	PE02_38_198.D
Level 3	STD3 480-162934/5	PE02_38_199.D
Level 4	STD4 480-162934/6	PE02_38_200.D
Level 5	STD5 480-162934/7	PE02_38_201.D
Level 6	STD6 480-162934/8	PE02_38_202.D
Level 7	STD7 480-162934/9	PE02_38_203.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	15899 561205	43627 +++++	80360	165187	330204	0.0200 1.00	0.0500 +++++	0.100	0.200	0.500
PCB-1016 Peak 2	Ave	60397 1700498	145524 +++++	259009	502749	995241	0.0200 1.00	0.0500 +++++	0.100	0.200	0.500
PCB-1016 Peak 3	Ave	28516 836005	69682 +++++	127663	249157	493211	0.0200 1.00	0.0500 +++++	0.100	0.200	0.500
PCB-1016 Peak 4	Ave	13902 553248	38988 +++++	76977	155529	318552	0.0200 1.00	0.0500 +++++	0.100	0.200	0.500
PCB-1260 Peak 1	Ave	100938 2659144	222756 +++++	427888	816520	1580880	0.0200 1.00	0.0500 +++++	0.100	0.200	0.500
PCB-1260 Peak 2	Ave	10916 383494	22732 +++++	56625	113042	228544	0.0200 1.00	0.0500 +++++	0.100	0.200	0.500
PCB-1260 Peak 3	Ave	25394 822261	60677 +++++	125788	246575	488642	0.0200 1.00	0.0500 +++++	0.100	0.200	0.500
PCB-1260 Peak 4	Ave	8788 299833	21435 +++++	41423	83110	178672	0.0200 1.00	0.0500 +++++	0.100	0.200	0.500
Tetrachloro-m-xylene	Ave	17381 670260	46341 1312617	89960	183695	376026	0.000500 0.0250	0.00125 0.0500	0.00250	0.00500	0.0125
DCB Decachlorobiphenyl	Lin	39694 816494	84635 1473218	140115	259319	499782	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\PE-02\20140123-29005.b\PE02_38_197.D
Lims ID: STD1 Lab Sample ID:
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 23-Jan-2014 10:33:03 ALS Bottle#: 0 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: buftchrom Instrument ID: PE-02
Sublist: chrom-PCBS*sub1

Method: \\Bufchrom\ChromData\PE-02\20140123-29005.b\PCBS.m
Limit Group: GC - 8082A PCB ICAL
Last Update: 27-Jan-2014 10:44:09 Calib Date: 23-Jan-2014 15:20:22
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\PE-02\20140123-29005.b\PE02_38_217.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK034

First Level Reviewer: michalej Date: 24-Jan-2014 11:12:31

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	On-Col Amt ng/uL	Flags
$ 3 Tetrachloro-m-xylene						
1	1.477	1.479	-0.002	25943	0.000591	
2	1.831	1.833	-0.002	17381	0.000534	
					RPD = 10.11	
6 PCB-1016						
1	2.144	2.148	-0.004	26548	0.0241	
1	2.301	2.307	-0.006	75993	0.0243	
1	2.357	2.363	-0.006	32753	0.0236	
1	2.615	2.621	-0.006	37357	0.0230	
		Average of Peak Amounts =			0.0237	
2	2.263	2.267	-0.004	15899	0.0211	
2	2.757	2.763	-0.006	60397	0.0246	
2	2.837	2.843	-0.006	28516	0.0239	
2	2.901	2.907	-0.006	13902	0.0198	
		Average of Peak Amounts =			0.0224	
					RPD = 5.99	
9 PCB-1260						M
1	3.517	3.520	-0.003	102009	0.0240	M
1	3.711	3.713	-0.002	40076	0.0221	M
1	3.843	3.847	-0.004	150453	0.0227	M
1	3.979	3.983	-0.004	61517	0.0217	M
		Average of Peak Amounts =			0.0226	
2	4.273	4.279	-0.006	100938	0.0256	
2	4.679	4.685	-0.006	10916	0.0220	
2	4.725	4.731	-0.006	25394	0.0225	
2	4.888	4.893	-0.005	8788	0.0224	
		Average of Peak Amounts =			0.0231	
					RPD = 2.21	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	On-Col Amt ng/uL	Flags
$ 12 DCB Decachlorobiphenyl						
1	4.577	4.581	-0.004	45041	-0.000825	
2	5.028	5.033	-0.005	39694	-0.001407	
					RPD = -52.15	

QC Flag Legend

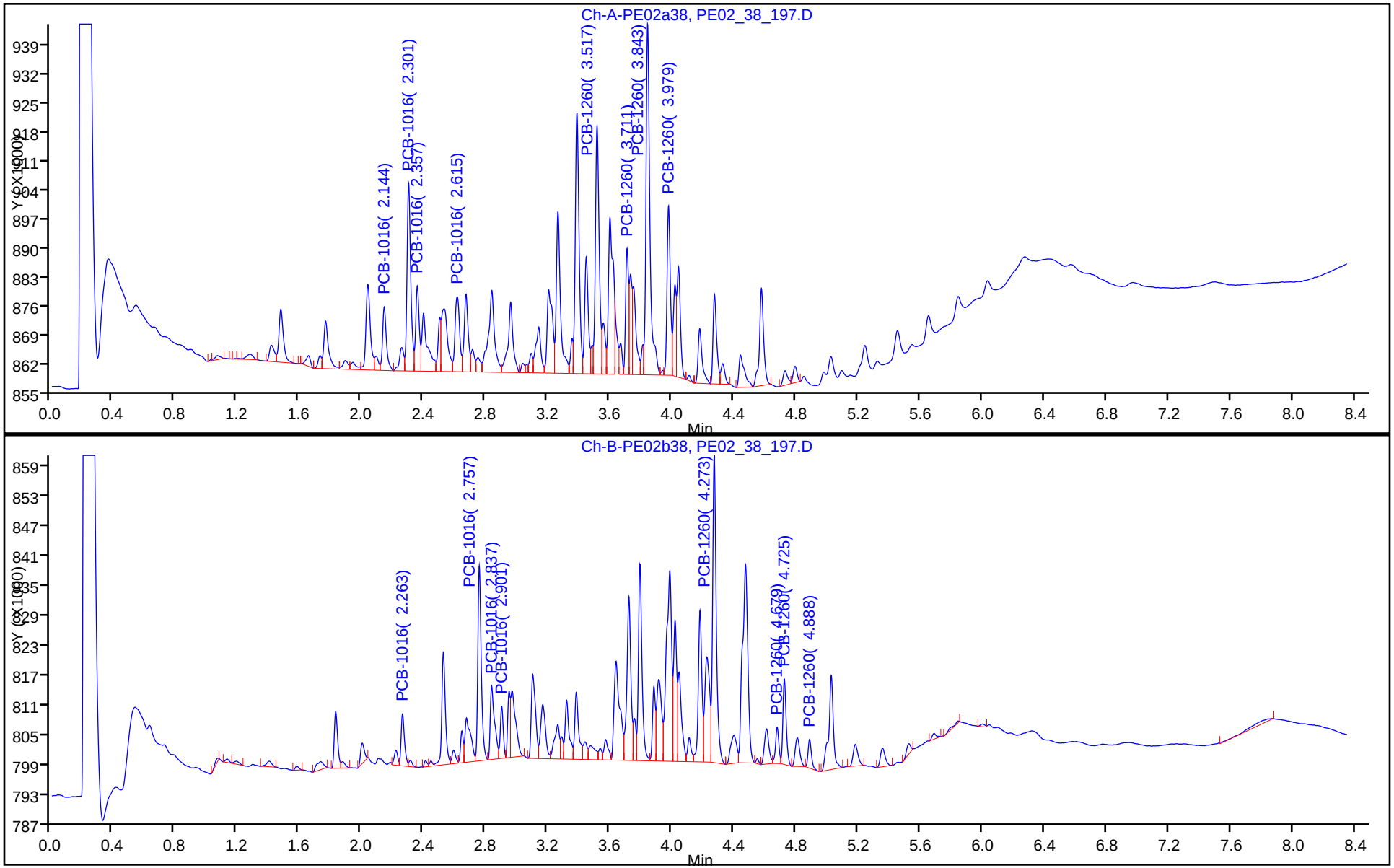
Review Flags
M - Manually Integrated

Report Date: 27-Jan-2014 10:44:11 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\PE-02\20140123-29005.b\PE02_38_197.D

Injection Date:	23-Jan-2014 10:33:03	Instrument ID:	PE-02	Operator ID:	buftchrom
Lims ID:	STD1	Lab Sample ID:		Worklist Smp#:	3
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	PCBS	Limit Group:	GC - 8082A PCB ICAL		



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\PE-02\20140123-29005.b\PE02_38_198.D
Lims ID: STD2 Lab Sample ID:
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 23-Jan-2014 10:47:39 ALS Bottle#: 0 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: buftchrom Instrument ID: PE-02
Sublist: chrom-PCBS*sub1

Method: \\Bufchrom\ChromData\PE-02\20140123-29005.b\PCBS.m
Limit Group: GC - 8082A PCB ICAL
Last Update: 27-Jan-2014 10:44:12 Calib Date: 23-Jan-2014 15:20:22
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\PE-02\20140123-29005.b\PE02_38_217.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK034

First Level Reviewer: michalej Date: 23-Jan-2014 13:29:03

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	On-Col Amt ng/uL	Flags
$ 3 Tetrachloro-m-xylene						
1	1.479	1.479	0.0	61319	0.001397	
2	1.835	1.833	0.002	46341	0.001425	
					RPD = 1.92	
6 PCB-1016						M
1	2.149	2.148	0.001	57074	0.0518	
1	2.307	2.307	0.0	179246	0.0572	M
1	2.363	2.363	0.0	77413	0.0559	M
1	2.623	2.621	0.002	91518	0.0562	M
		Average of Peak Amounts =			0.0553	
2	2.268	2.267	0.001	43627	0.0579	
2	2.764	2.763	0.001	145524	0.0593	
2	2.844	2.843	0.001	69682	0.0584	
2	2.909	2.907	0.002	38988	0.0555	
		Average of Peak Amounts =			0.0578	
					RPD = 4.44	
9 PCB-1260						M
1	3.523	3.520	0.003	248745	0.0584	M
1	3.716	3.713	0.003	107053	0.0589	M
1	3.849	3.847	0.002	388807	0.0588	M
1	3.984	3.983	0.001	165460	0.0584	M
		Average of Peak Amounts =			0.0586	
2	4.280	4.279	0.001	222756	0.0564	
2	4.685	4.685	0.0	22732	0.0459	
2	4.731	4.731	0.0	60677	0.0537	
2	4.893	4.893	0.0	21435	0.0546	
		Average of Peak Amounts =			0.0527	
					RPD = 10.70	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	On-Col Amt ng/uL	Flags
$ 12 DCB Decachlorobiphenyl						
1	4.583	4.581	0.002	105340	0.000499	
2	5.035	5.033	0.002	84635	0.000172	
					RPD = 97.60	

QC Flag Legend

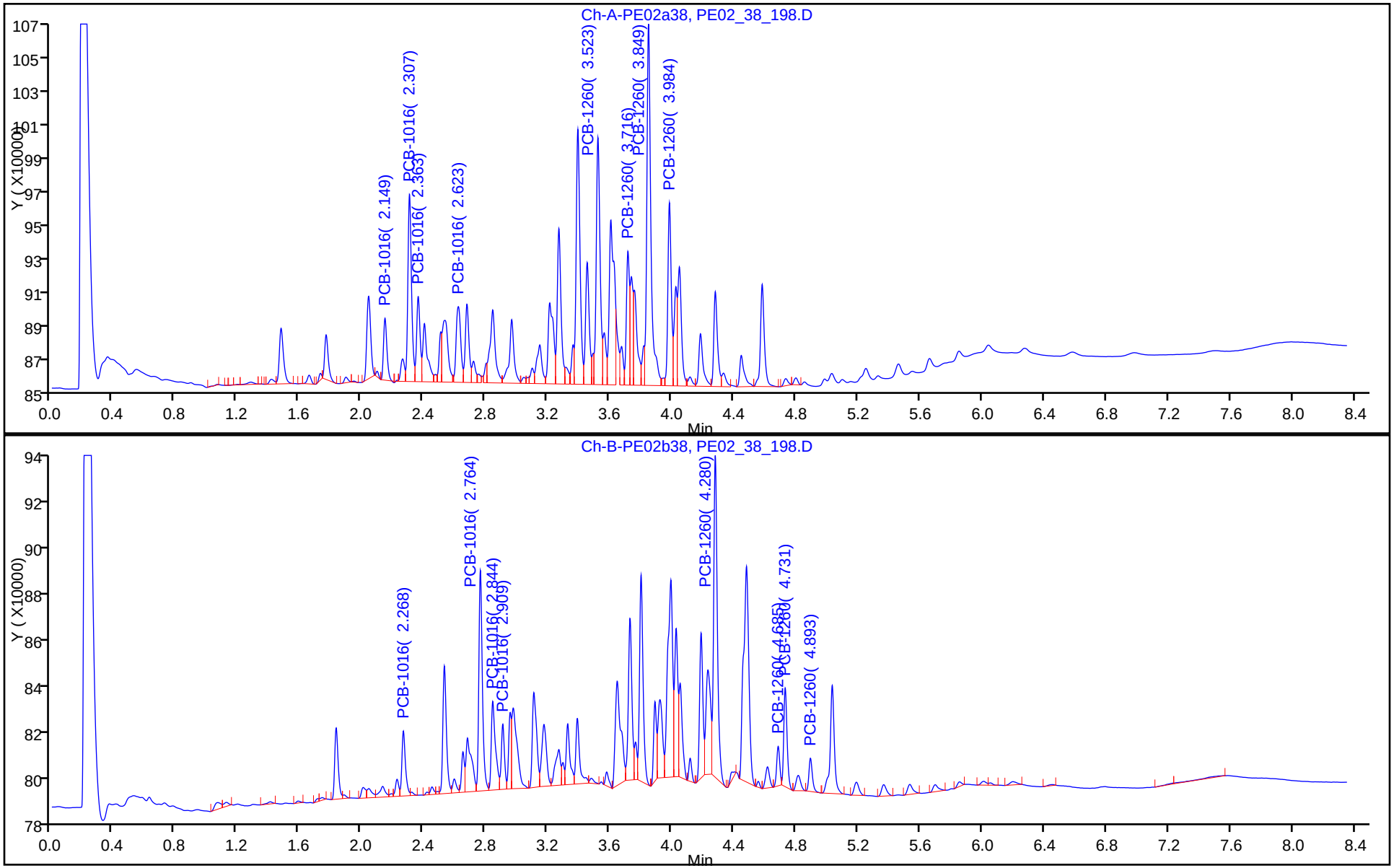
Review Flags
M - Manually Integrated

Report Date: 27-Jan-2014 10:44:13 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\PE-02\20140123-29005.b\PE02_38_198.D

Injection Date:	23-Jan-2014 10:47:39	Instrument ID:	PE-02	Operator ID:	buftchrom
Lims ID:	STD2	Lab Sample ID:		Worklist Smp#:	4
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	PCBS	Limit Group:	GC - 8082A PCB ICAL		



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\PE-02\20140123-29005.b\PE02_38_199.D
Lims ID: std3 Lab Sample ID:
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 23-Jan-2014 11:02:12 ALS Bottle#: 0 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: buftchrom Instrument ID: PE-02
Sublist: chrom-PCBS*sub1

Method: \\Bufchrom\ChromData\PE-02\20140123-29005.b\PCBS.m
Limit Group: GC - 8082A PCB ICAL
Last Update: 27-Jan-2014 10:44:14 Calib Date: 23-Jan-2014 15:20:22
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\PE-02\20140123-29005.b\PE02_38_217.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK034

First Level Reviewer: michalej Date: 23-Jan-2014 13:31:12

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	On-Col Amt ng/uL	Flags
$ 3 Tetrachloro-m-xylene						
1	1.479	1.479	0.0	114274	0.002604	
2	1.833	1.833	0.0	89960	0.002766	
					RPD = 6.01	
6 PCB-1016						
1	2.148	2.148	0.0	117058	0.1062	
1	2.305	2.307	-0.002	328935	0.1050	
1	2.363	2.363	0.0	146086	0.1054	
1	2.621	2.621	0.0	172492	0.1060	
		Average of Peak Amounts =			0.1056	
2	2.267	2.267	0.0	80360	0.1067	
2	2.763	2.763	0.0	259009	0.1055	
2	2.843	2.843	0.0	127663	0.1069	
2	2.908	2.907	0.001	76977	0.1096	
		Average of Peak Amounts =			0.1072	
					RPD = 1.46	
9 PCB-1260						
1	3.521	3.520	0.001	445731	0.1047	
1	3.713	3.713	0.0	191213	0.1053	
1	3.847	3.847	0.0	693548	0.1048	
1	3.983	3.983	0.0	302256	0.1067	
		Average of Peak Amounts =			0.1054	
2	4.280	4.279	0.001	427888	0.1084	
2	4.685	4.685	0.0	56625	0.1143	
2	4.731	4.731	0.0	125788	0.1114	
2	4.893	4.893	0.0	41423	0.1055	
		Average of Peak Amounts =			0.1099	
					RPD = 4.24	

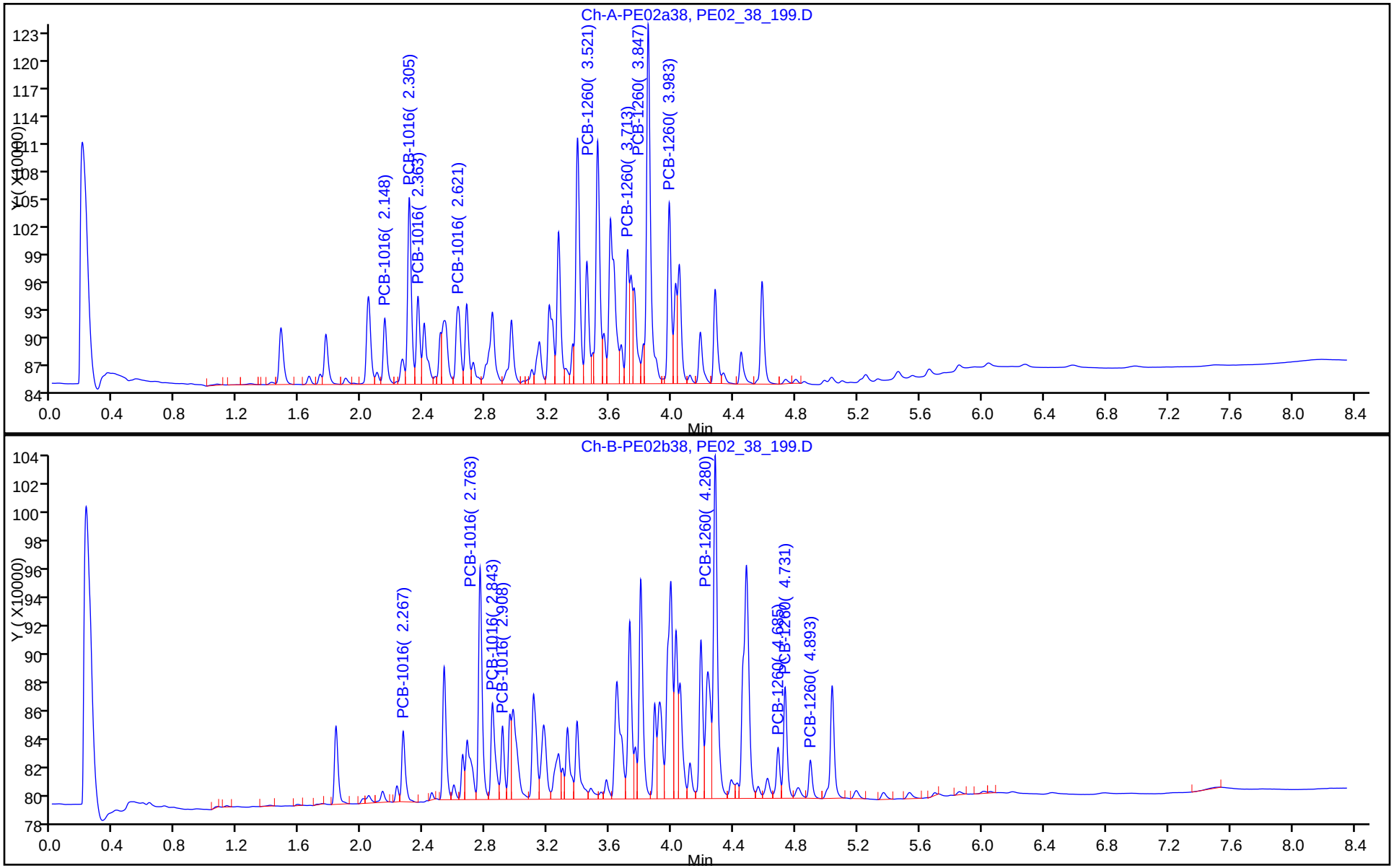
Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	On-Col Amt ng/uL	Flags
$ 12 DCB Decachlorobiphenyl						
1	4.581	4.581	0.0	184641	0.002240	
2	5.033	5.033	0.0	140115	0.002120	
					RPD = 5.49	

Report Date: 27-Jan-2014 10:44:15 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\PE-02\20140123-29005.b\PE02_38_199.D

Injection Date:	23-Jan-2014 11:02:12	Instrument ID:	PE-02	Operator ID:	buftchrom
Lims ID:	std3	Lab Sample ID:		Worklist Smp#:	5
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	PCBS	Limit Group:	GC - 8082A PCB ICAL		



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\PE-02\20140123-29005.b\PE02_38_200.D
Lims ID: STD4 Lab Sample ID:
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 23-Jan-2014 11:16:47 ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: buftchrom Instrument ID: PE-02
Sublist: chrom-PCBS*sub1

Method: \\Bufchrom\ChromData\PE-02\20140123-29005.b\PCBS.m
Limit Group: GC - 8082A PCB ICAL
Last Update: 27-Jan-2014 10:44:17 Calib Date: 23-Jan-2014 15:20:22
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\PE-02\20140123-29005.b\PE02_38_217.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK034

First Level Reviewer: michalej Date: 23-Jan-2014 13:33:56

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	On-Col Amt ng/uL	Flags
$ 3 Tetrachloro-m-xylene						
1	1.473	1.479	-0.006	241498	0.005504	
2	1.828	1.833	-0.005	183695	0.005647	
					RPD = 2.57	
6 PCB-1016						
1	2.141	2.148	-0.007	241858	0.2194	
1	2.299	2.307	-0.008	656603	0.2096	
1	2.355	2.363	-0.008	297074	0.2143	
1	2.615	2.621	-0.006	354107	0.2176	
		Average of Peak Amounts =			0.2152	
2	2.260	2.267	-0.007	165187	0.2193	
2	2.756	2.763	-0.007	502749	0.2049	
2	2.836	2.843	-0.007	249157	0.2087	
2	2.900	2.907	-0.007	155529	0.2215	
		Average of Peak Amounts =			0.2136	
					RPD = 0.76	
9 PCB-1260						
1	3.515	3.520	-0.005	894042	0.2099	
1	3.707	3.713	-0.006	393306	0.2165	
1	3.840	3.847	-0.007	1401355	0.2117	
1	3.976	3.983	-0.007	613752	0.2166	
		Average of Peak Amounts =			0.2137	
2	4.273	4.279	-0.006	816520	0.2069	
2	4.680	4.685	-0.005	113042	0.2282	
2	4.725	4.731	-0.006	246575	0.2184	
2	4.888	4.893	-0.005	83110	0.2117	
		Average of Peak Amounts =			0.2163	
					RPD = 1.20	

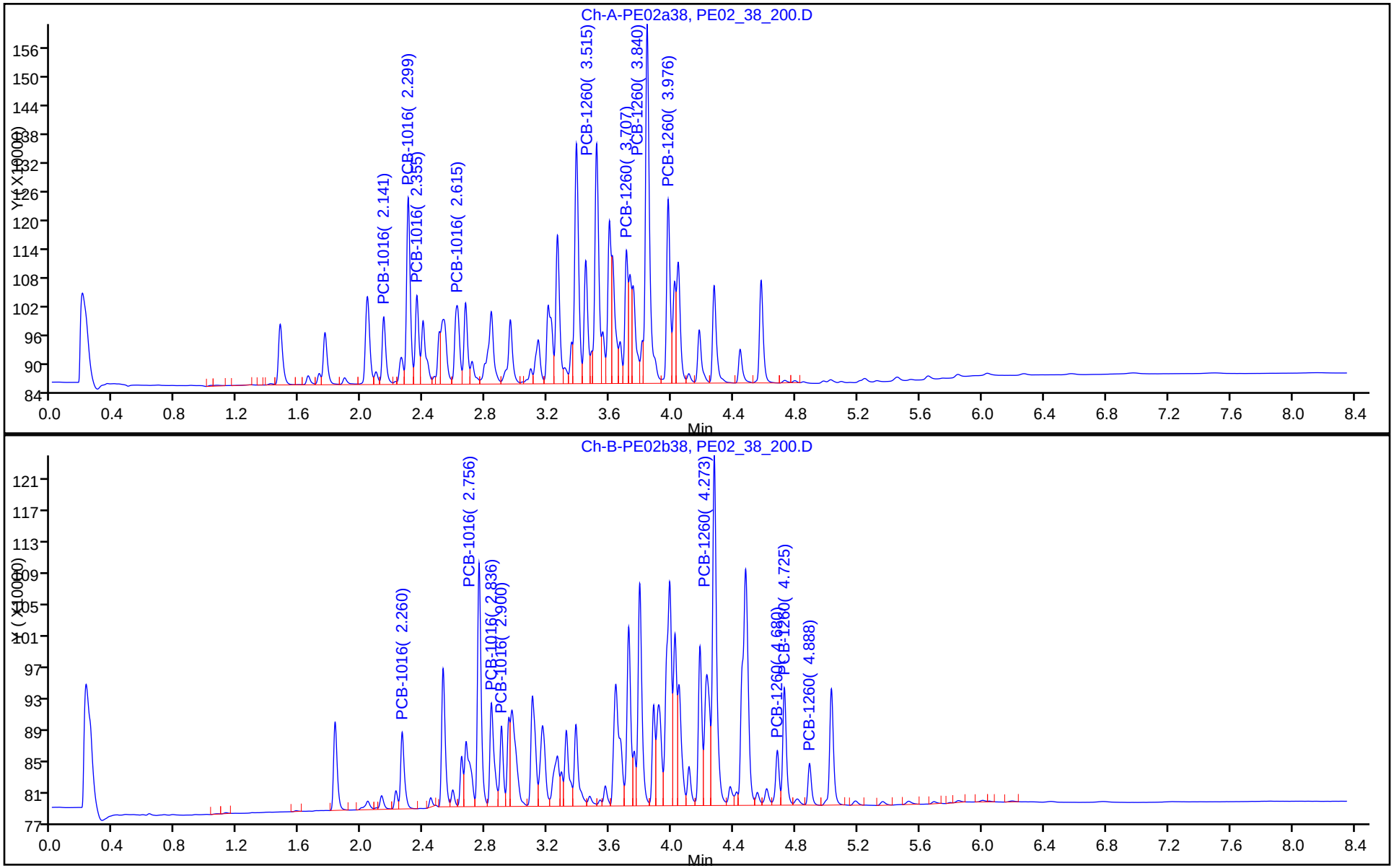
Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	On-Col Amt ng/uL	Flags
$ 12 DCB Decachlorobiphenyl						
1	4.576	4.581	-0.005	363854	0.006173	
2	5.029	5.033	-0.004	259319	0.006306	
					RPD = 2.13	

Report Date: 27-Jan-2014 10:44:18 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\PE-02\20140123-29005.b\PE02_38_200.D

Injection Date:	23-Jan-2014 11:16:47	Instrument ID:	PE-02	Operator ID:	buftchrom
Lims ID:	STD4	Lab Sample ID:		Worklist Smp#:	6
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	PCBS	Limit Group:	GC - 8082A PCB ICAL		



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\PE-02\20140123-29005.b\PE02_38_201.D
Lims ID: STD5 Lab Sample ID:
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 23-Jan-2014 11:31:08 ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: buftchrom Instrument ID: PE-02
Sublist: chrom-PCBS*sub1

Method: \\Bufchrom\ChromData\PE-02\20140123-29005.b\PCBS.m
Limit Group: GC - 8082A PCB ICAL
Last Update: 27-Jan-2014 10:44:21 Calib Date: 23-Jan-2014 15:20:22
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\PE-02\20140123-29005.b\PE02_38_217.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK034

First Level Reviewer: michalej Date: 24-Jan-2014 08:59:18

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	On-Col Amt ng/uL	Flags
$ 3 Tetrachloro-m-xylene						
1	1.476	1.479	-0.003	501141	0.0114	
2	1.831	1.833	-0.002	376026	0.0116	
					RPD = 1.21	
6 PCB-1016						
1	2.144	2.148	-0.004	470237	0.4265	
1	2.301	2.307	-0.006	1295286	0.4134	
1	2.357	2.363	-0.006	583694	0.4211	
1	2.617	2.621	-0.004	688099	0.4228	
		Average of Peak Amounts =			0.4210	
2	2.261	2.267	-0.006	330204	0.4385	
2	2.759	2.763	-0.004	995241	0.4055	
2	2.839	2.843	-0.004	493211	0.4131	
2	2.903	2.907	-0.004	318552	0.4537	
		Average of Peak Amounts =			0.4277	
					RPD = 1.58	
9 PCB-1260						
1	3.516	3.520	-0.004	1758709	0.4130	
1	3.711	3.713	-0.002	764244	0.4207	
1	3.843	3.847	-0.004	2796788	0.4226	
1	3.979	3.983	-0.004	1209795	0.4270	
		Average of Peak Amounts =			0.4208	
2	4.275	4.279	-0.004	1580880	0.4005	
2	4.681	4.685	-0.004	228544	0.4613	
2	4.727	4.731	-0.004	488642	0.4328	
2	4.889	4.893	-0.004	178672	0.4552	
		Average of Peak Amounts =			0.4375	
					RPD = 3.88	

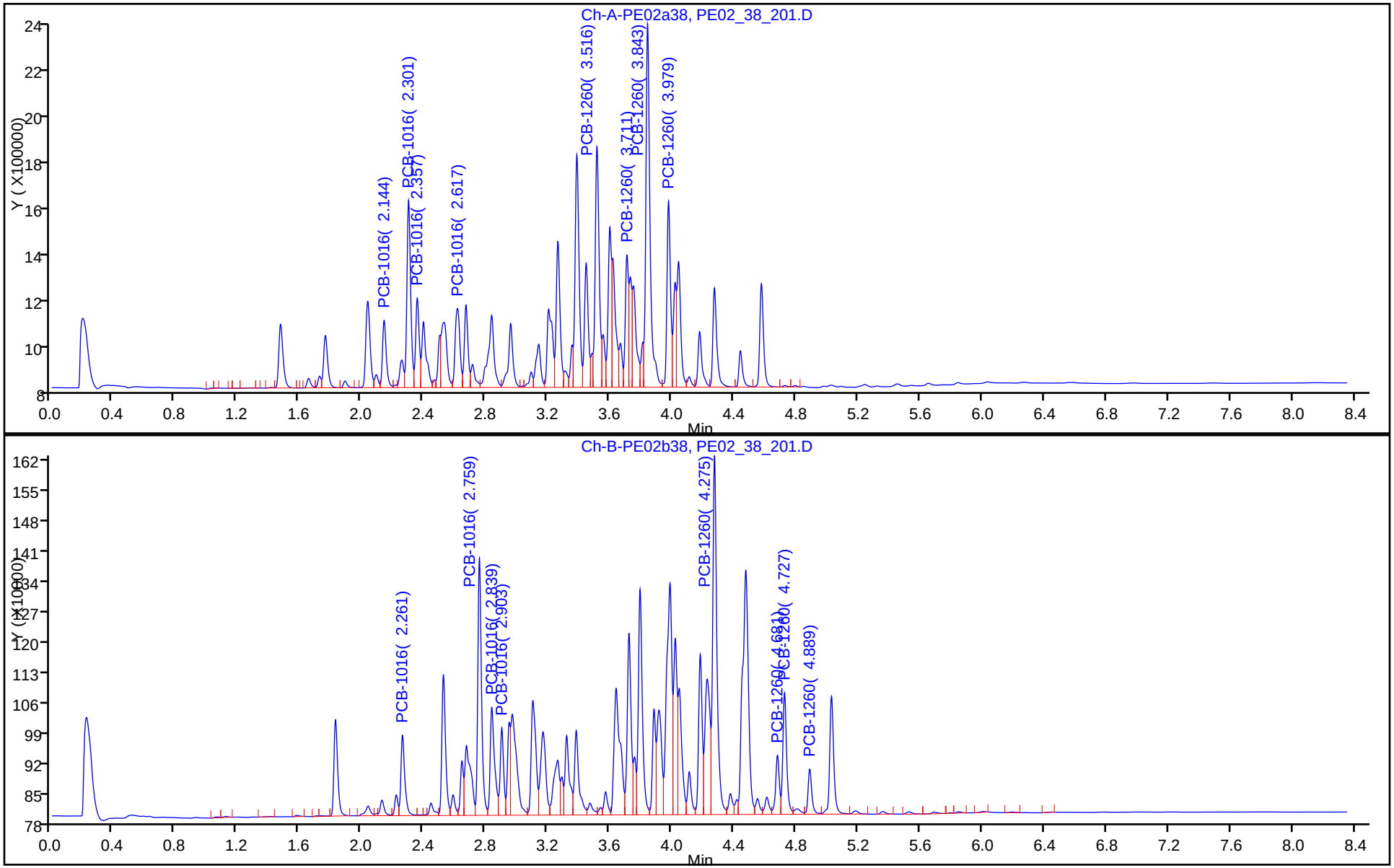
Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	On-Col Amt ng/uL	Flags
$ 12 DCB Decachlorobiphenyl						
1	4.577	4.581	-0.004	717806	0.0139	
2	5.029	5.033	-0.004	499782	0.0148	
					RPD = 5.63	

Report Date: 27-Jan-2014 10:44:22 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\PE-02\20140123-29005.b\PE02_38_201.D

Injection Date:	23-Jan-2014 11:31:08	Instrument ID:	PE-02	Operator ID:	buftchrom
Lims ID:	STD5	Lab Sample ID:		Worklist Smp#:	7
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	PCBS	Limit Group:	GC - 8082A PCB ICAL		



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\PE-02\20140123-29005.b\PE02_38_202.D
Lims ID: STD6 Lab Sample ID:
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 23-Jan-2014 11:45:26 ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: buftchrom Instrument ID: PE-02
Sublist: chrom-PCBS*sub1

Method: \\Bufchrom\ChromData\PE-02\20140123-29005.b\PCBS.m
Limit Group: GC - 8082A PCB ICAL
Last Update: 27-Jan-2014 10:44:25 Calib Date: 23-Jan-2014 15:20:22
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\PE-02\20140123-29005.b\PE02_38_217.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK034

First Level Reviewer: michalej Date: 24-Jan-2014 08:58:53

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	On-Col Amt ng/uL	Flags
$ 3 Tetrachloro-m-xylene						
1	1.479	1.479	0.0	909194	0.0207	
2	1.833	1.833	0.0	670260	0.0206	
					RPD = 0.56	
6 PCB-1016						
1	2.149	2.148	0.001	825359	0.7487	
1	2.307	2.307	0.0	2250896	0.7184	
1	2.363	2.363	0.0	1016685	0.7335	
1	2.623	2.621	0.002	1194422	0.7340	
		Average of Peak Amounts =			0.7336	
2	2.268	2.267	0.001	561205	0.7452	
2	2.764	2.763	0.001	1700498	0.6929	
2	2.843	2.843	0.0	836005	0.7001	
2	2.908	2.907	0.001	553248	0.7880	
		Average of Peak Amounts =			0.7316	
					RPD = 0.29	
9 PCB-1260						
1	3.521	3.520	0.001	3030030	0.7115	
1	3.715	3.713	0.002	1347818	0.7419	
1	3.848	3.847	0.001	4873310	0.7364	
1	3.983	3.983	0.0	2102310	0.7421	
		Average of Peak Amounts =			0.7330	
2	4.279	4.279	0.0	2659144	0.6736	
2	4.685	4.685	0.0	383494	0.7741	
2	4.731	4.731	0.0	822261	0.7284	
2	4.893	4.893	0.0	299833	0.7639	
		Average of Peak Amounts =			0.7350	
					RPD = 0.27	

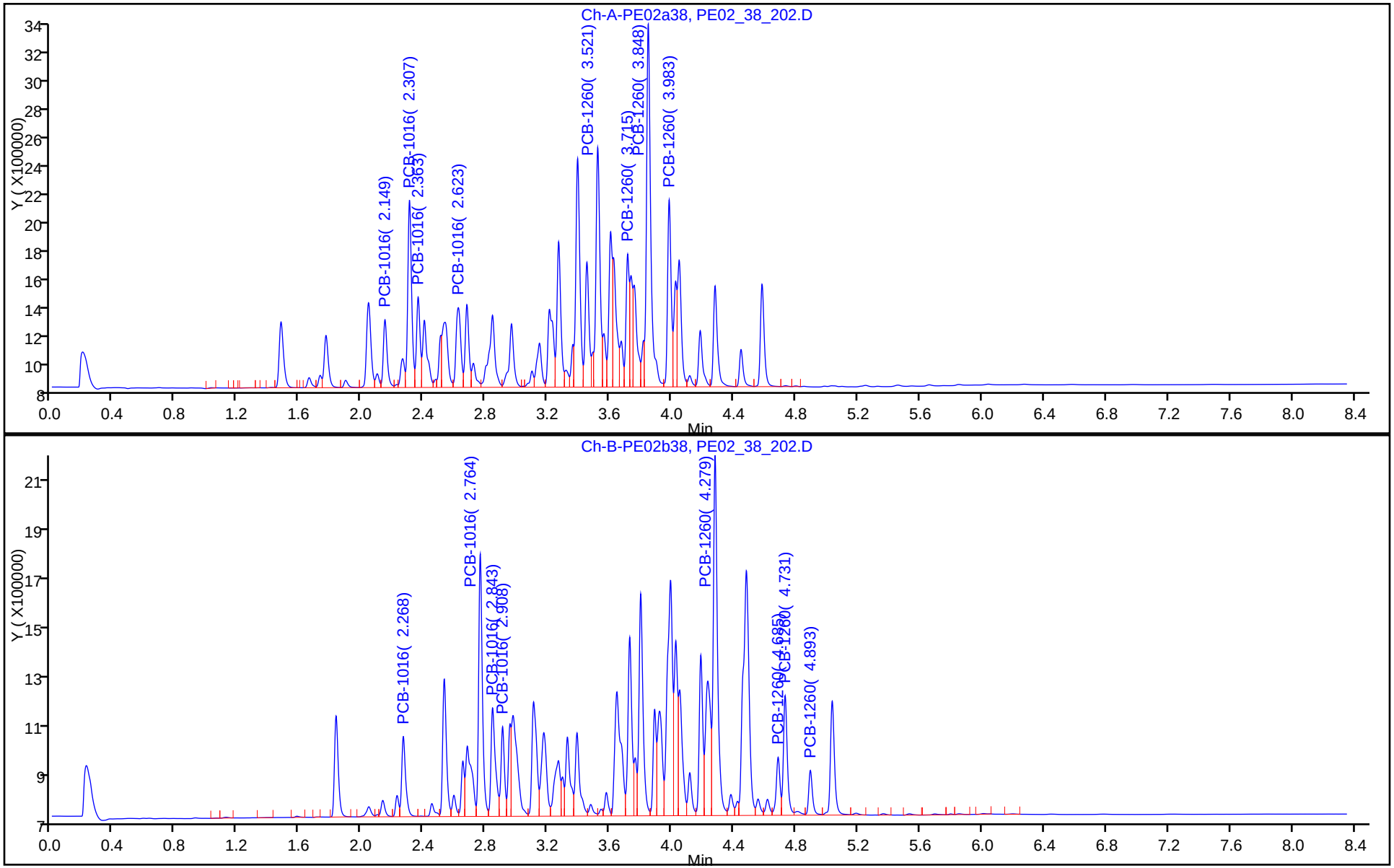
Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	On-Col Amt ng/uL	Flags
$ 12 DCB Decachlorobiphenyl						
1	4.581	4.581	0.0	1235466	0.0253	
2	5.035	5.033	0.002	816494	0.0259	
					RPD = 2.22	

Report Date: 27-Jan-2014 10:44:26 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\PE-02\20140123-29005.b\PE02_38_202.D

Injection Date:	23-Jan-2014 11:45:26	Instrument ID:	PE-02	Operator ID:	buftchrom
Lims ID:	STD6	Lab Sample ID:		Worklist Smp#:	8
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	PCBS	Limit Group:	GC - 8082A PCB ICAL		



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\PE-02\20140123-29005.b\PE02_38_203.D
Lims ID: STD7 Lab Sample ID:
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 23-Jan-2014 11:59:49 ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: buftchrom Instrument ID: PE-02
Sublist: chrom-PCBS*sub1

Method: \\Bufchrom\ChromData\PE-02\20140123-29005.b\PCBS.m
Limit Group: GC - 8082A PCB ICAL
Last Update: 27-Jan-2014 10:44:29 Calib Date: 23-Jan-2014 15:20:22
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\PE-02\20140123-29005.b\PE02_38_217.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK034

First Level Reviewer: michalej Date: 24-Jan-2014 08:59:22

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	On-Col Amt ng/uL	Flags
$ 3 Tetrachloro-m-xylene						
1	1.479	1.479	0.0	1787150	0.0407	
2	1.833	1.833	0.0	1312617	0.0404	
					RPD = 0.93	
6 PCB-1016						
1	2.148	2.148	0.0	1545396	1.40	
1	2.307	2.307	0.0	4162694	1.33	
1	2.363	2.363	0.0	1899384	1.37	
1	2.621	2.621	0.0	2213371	1.36	
		Average of Peak Amounts =			1.37	
2	2.267	2.267	0.0	1028749	1.37	
2	2.763	2.763	0.0	3159667	1.29	
2	2.843	2.843	0.0	1537512	1.29	
2	2.907	2.907	0.0	1047617	1.49	
		Average of Peak Amounts =			1.36	
					RPD = 0.51	
9 PCB-1260						
1	3.520	3.520	0.0	5698227	1.34	
1	3.713	3.713	0.0	2508606	1.38	
1	3.847	3.847	0.0	9231219	1.39	
1	3.983	3.983	0.0	4032724	1.42	
		Average of Peak Amounts =			1.38	
2	4.279	4.279	0.0	4949006	1.25	
2	4.685	4.685	0.0	712494	1.44	
2	4.731	4.731	0.0	1529780	1.36	
2	4.893	4.893	0.0	557629	1.42	
		Average of Peak Amounts =			1.37	
					RPD = 1.27	

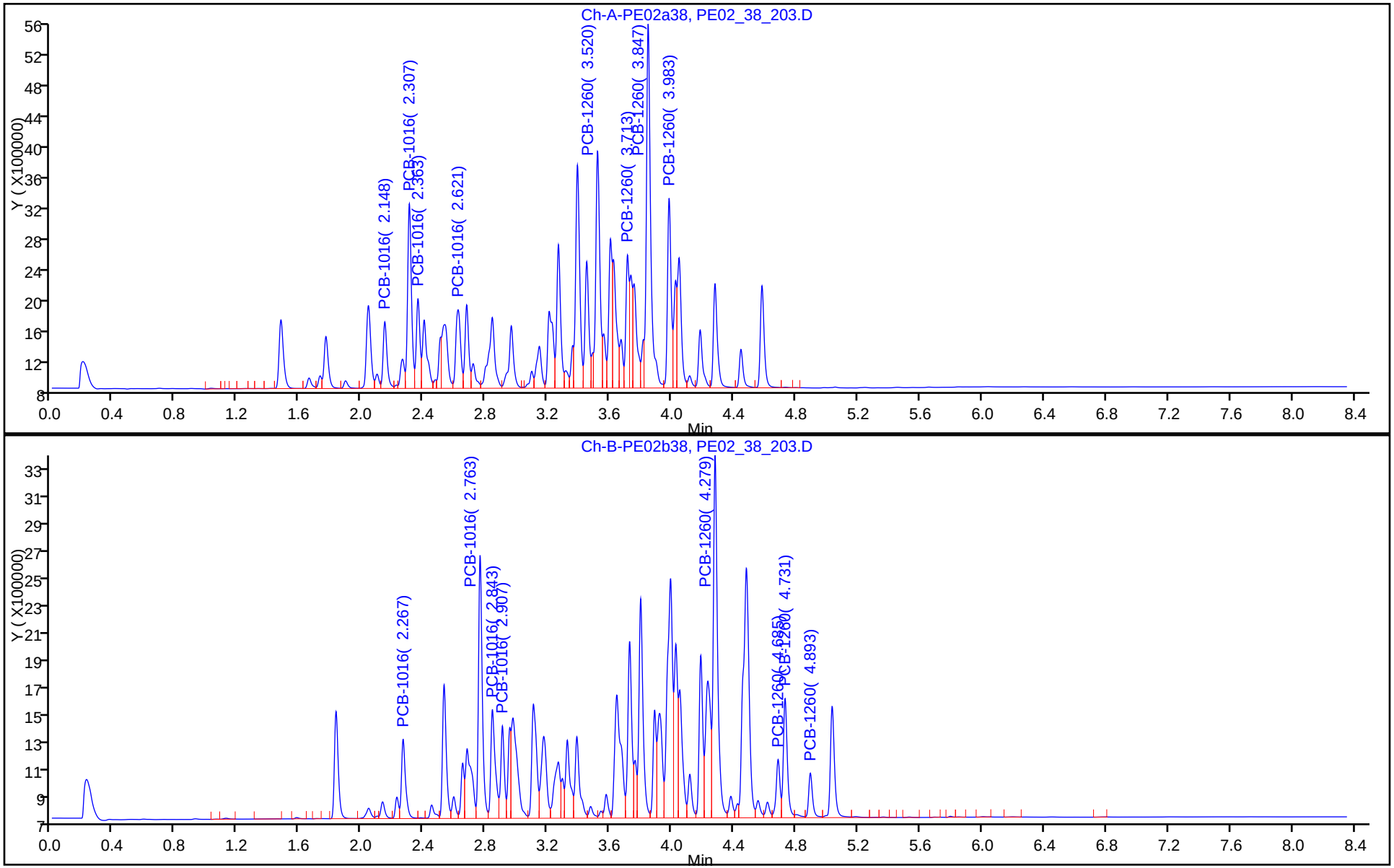
Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	On-Col Amt ng/uL	Flags
$ 12 DCB Decachlorobiphenyl						
1	4.581	4.581	0.0	2333758	0.0494	
2	5.033	5.033	0.0	1473218	0.0489	
					RPD = 0.97	

Report Date: 27-Jan-2014 10:44:30 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\PE-02\20140123-29005.b\PE02_38_203.D

Injection Date:	23-Jan-2014 11:59:49	Instrument ID:	PE-02	Operator ID:	buftchrom
Lims ID:	STD7	Lab Sample ID:		Worklist Smp#:	9
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	PCBS	Limit Group:	GC - 8082A PCB ICAL		



FORM VI

PCBS INITIAL CALIBRATION DATA

EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1 Analy Batch No.: 162934

SDG No.:

Instrument ID: PE-02 GC Column: ZB-5 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/23/2014 12:28 Calibration End Date: 01/23/2014 12:28 Calibration ID: 17162

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD21 480-162934/11	PE02_38_205.D

ANALYTE	LVL 1										RT WINDOW	AVG RT
PCB-1221 Peak 1	1.021										0.991 - 1.051	1.021
PCB-1221 Peak 2	1.329										1.299 - 1.359	1.329
PCB-1221 Peak 3	1.659										1.629 - 1.689	1.659
PCB-1221 Peak 4	1.768										1.738 - 1.798	1.768

FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1 Analy Batch No.: 162934

SDG No.:

Instrument ID: PE-02 GC Column: ZB-5 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/23/2014 12:28 Calibration End Date: 01/23/2014 12:28 Calibration ID: 17162

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD21 480-162934/11	PE02_38_205.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	312136				Ave		312136.000						20.0			
PCB-1221 Peak 2	82794				Ave		82794.0000						20.0			
PCB-1221 Peak 3	464630				Ave		464630.000						20.0			
PCB-1221 Peak 4	1201980				Ave		1201980.00						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.: 480-58807-1 Analy Batch No.: 162934

SDG No.:

Instrument ID: PE-02 GC Column: ZB-5 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/23/2014 12:28 Calibration End Date: 01/23/2014 12:28 Calibration ID: 17162

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD21 480-162934/11	PE02_38_205.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
		LVL 1					LVL 1				
PCB-1221 Peak 1	Ave	156068					0.500				
PCB-1221 Peak 2	Ave	41397					0.500				
PCB-1221 Peak 3	Ave	232315					0.500				
PCB-1221 Peak 4	Ave	600990					0.500				

Curve Type Legend:

Ave = Average

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\PE-02\20140123-29005.b\PE02_38_205.D
Lims ID: std21 Lab Sample ID:
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 23-Jan-2014 12:28:29 ALS Bottle#: 0 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: buftchrom Instrument ID: PE-02
Sublist: chrom-PCBS*sub2

Method: \\Bufchrom\ChromData\PE-02\20140123-29005.b\PCBS.m
Limit Group: GC - 8082A PCB ICAL
Last Update: 27-Jan-2014 10:44:40 Calib Date: 23-Jan-2014 15:20:22
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\PE-02\20140123-29005.b\PE02_38_217.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK034

First Level Reviewer: michalej Date: 27-Jan-2014 06:41:21

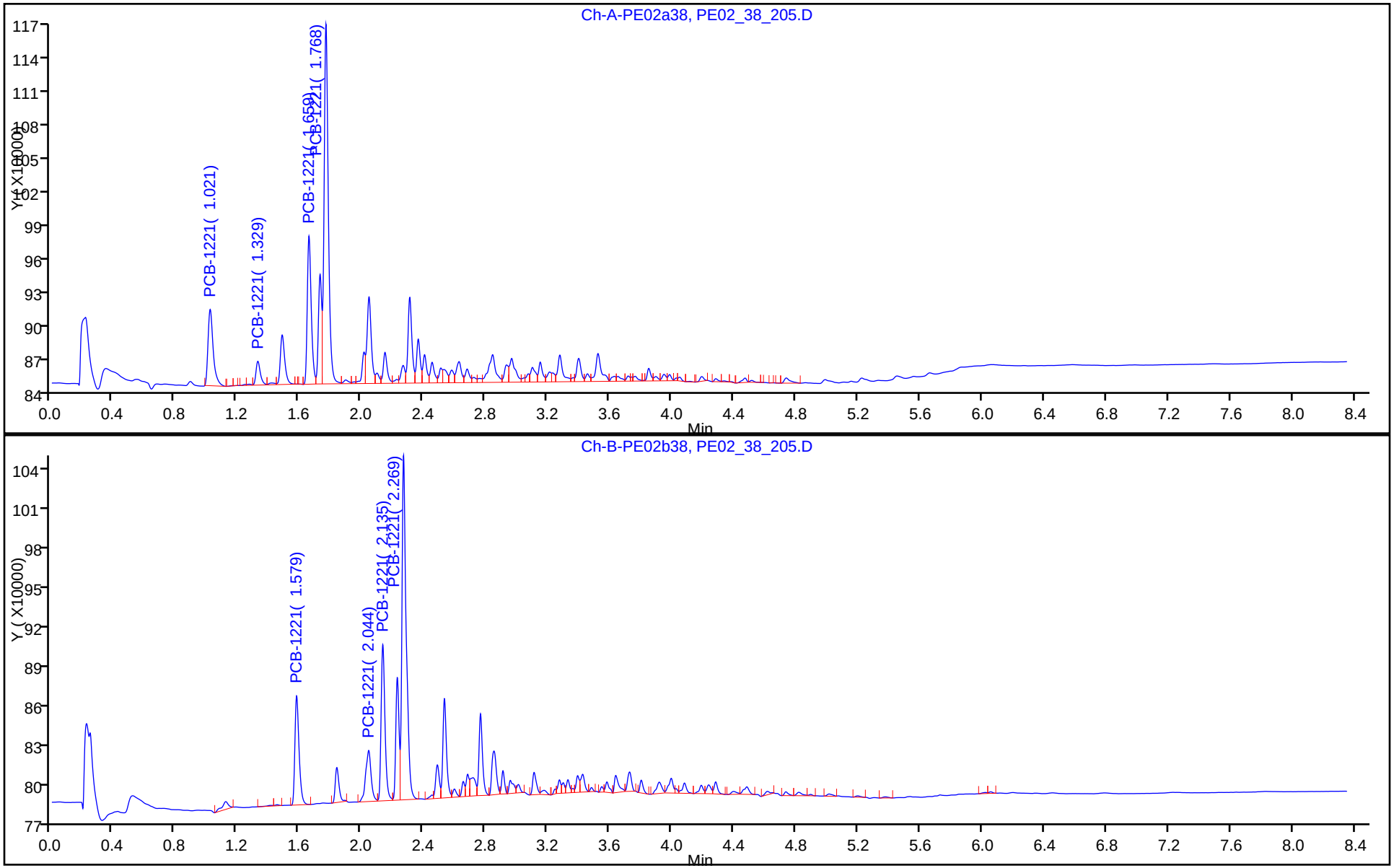
Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	On-Col Amt ng/uL	Flags
2 PCB-1221						
1	1.021	1.021	0.0	156068	0.5000	
1	1.329	1.329	0.0	41397	0.5000	
1	1.659	1.659	0.0	232315	0.5000	
1	1.768	1.768	0.0	600990	0.5000	
		Average of Peak Amounts =			0.5000	
2	1.579	1.579	0.0	149254	0.5000	
2	2.044	2.044	0.0	91196	0.5000	
2	2.135	2.135	0.0	199008	0.5000	
2	2.269	2.269	0.0	486554	0.5000	
		Average of Peak Amounts =			0.5000	
					RPD = 0.00	

Report Date: 27-Jan-2014 10:44:41 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\PE-02\20140123-29005.b\PE02_38_205.D

Injection Date:	23-Jan-2014 12:28:29	Instrument ID:	PE-02	Operator ID:	buftchrom
Lims ID:	std21	Lab Sample ID:		Worklist Smp#:	11
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	PCBS	Limit Group:	GC - 8082A PCB ICAL		



FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1 Analy Batch No.: 162934

SDG No.:

Instrument ID: PE-02 GC Column: ZB-35 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/23/2014 12:28 Calibration End Date: 01/23/2014 12:28 Calibration ID: 17163

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD21 480-162934/11	PE02_38_205.D

ANALYTE	LVL 1										RT WINDOW	AVG RT
PCB-1221 Peak 1	1.579										1.549 - 1.609	1.579
PCB-1221 Peak 2	2.044										2.014 - 2.074	2.044
PCB-1221 Peak 3	2.135										2.105 - 2.165	2.135
PCB-1221 Peak 4	2.269										2.239 - 2.299	2.269

FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1 Analy Batch No.: 162934

SDG No.:

Instrument ID: PE-02 GC Column: ZB-35 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/23/2014 12:28 Calibration End Date: 01/23/2014 12:28 Calibration ID: 17163

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD21 480-162934/11	PE02_38_205.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	298508				Ave		298508.000						20.0			
PCB-1221 Peak 2	182392				Ave		182392.000						20.0			
PCB-1221 Peak 3	398016				Ave		398016.000						20.0			
PCB-1221 Peak 4	973108				Ave		973108.000						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.: 480-58807-1 Analy Batch No.: 162934

SDG No.:

Instrument ID: PE-02 GC Column: ZB-35 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/23/2014 12:28 Calibration End Date: 01/23/2014 12:28 Calibration ID: 17163

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD21 480-162934/11	PE02_38_205.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
		LVL 1					LVL 1				
PCB-1221 Peak 1	Ave	149254					0.500				
PCB-1221 Peak 2	Ave	91196					0.500				
PCB-1221 Peak 3	Ave	199008					0.500				
PCB-1221 Peak 4	Ave	486554					0.500				

Curve Type Legend:

Ave = Average

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\PE-02\20140123-29005.b\PE02_38_205.D
Lims ID: std21 Lab Sample ID:
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 23-Jan-2014 12:28:29 ALS Bottle#: 0 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: buftchrom Instrument ID: PE-02
Sublist: chrom-PCBS*sub2

Method: \\Bufchrom\ChromData\PE-02\20140123-29005.b\PCBS.m
Limit Group: GC - 8082A PCB ICAL
Last Update: 27-Jan-2014 10:44:40 Calib Date: 23-Jan-2014 15:20:22
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\PE-02\20140123-29005.b\PE02_38_217.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK034

First Level Reviewer: michalej Date: 27-Jan-2014 06:41:21

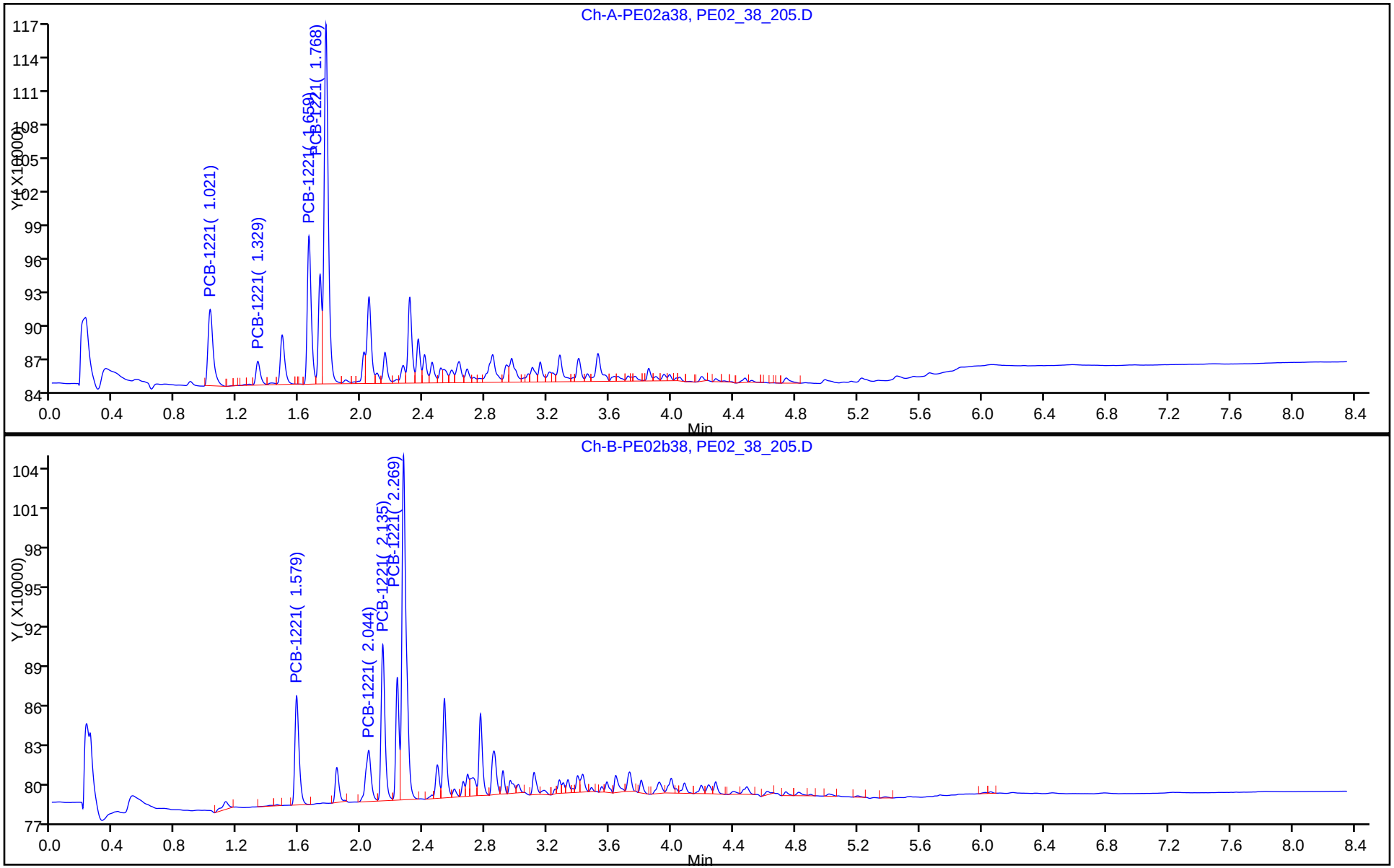
Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	On-Col Amt ng/uL	Flags
2 PCB-1221						
1	1.021	1.021	0.0	156068	0.5000	
1	1.329	1.329	0.0	41397	0.5000	
1	1.659	1.659	0.0	232315	0.5000	
1	1.768	1.768	0.0	600990	0.5000	
		Average of Peak Amounts =			0.5000	
2	1.579	1.579	0.0	149254	0.5000	
2	2.044	2.044	0.0	91196	0.5000	
2	2.135	2.135	0.0	199008	0.5000	
2	2.269	2.269	0.0	486554	0.5000	
		Average of Peak Amounts =			0.5000	
					RPD = 0.00	

Report Date: 27-Jan-2014 10:44:41 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\PE-02\20140123-29005.b\PE02_38_205.D

Injection Date:	23-Jan-2014 12:28:29	Instrument ID:	PE-02	Operator ID:	buftchrom
Lims ID:	std21	Lab Sample ID:		Worklist Smp#:	11
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	PCBS	Limit Group:	GC - 8082A PCB ICAL		



FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1 Analy Batch No.: 162934

SDG No.:

Instrument ID: PE-02 GC Column: ZB-5 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/23/2014 12:57 Calibration End Date: 01/23/2014 12:57 Calibration ID: 17168

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD32 480-162934/13	PE02_38_207.D

ANALYTE	LVL 1										RT WINDOW	AVG RT
PCB-1232 Peak 1	1.767										1.737 - 1.797	1.767
PCB-1232 Peak 2	2.041										2.011 - 2.071	2.041
PCB-1232 Peak 3	2.147										2.117 - 2.177	2.147
PCB-1232 Peak 4	2.307										2.277 - 2.337	2.307

FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1 Analy Batch No.: 162934

SDG No.:

Instrument ID: PE-02 GC Column: ZB-5 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/23/2014 12:57 Calibration End Date: 01/23/2014 12:57 Calibration ID: 17168

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD32 480-162934/13	PE02_38_207.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	1069788				Ave		1069788.00						20.0			
PCB-1232 Peak 2	872546				Ave		872546.000						20.0			
PCB-1232 Peak 3	534494				Ave		534494.000						20.0			
PCB-1232 Peak 4	1431444				Ave		1431444.00						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.: 480-58807-1 Analy Batch No.: 162934

SDG No.:

Instrument ID: PE-02 GC Column: ZB-5 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/23/2014 12:57 Calibration End Date: 01/23/2014 12:57 Calibration ID: 17168

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD32 480-162934/13	PE02_38_207.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
		LVL 1					LVL 1				
PCB-1232 Peak 1	Ave	534894					0.500				
PCB-1232 Peak 2	Ave	436273					0.500				
PCB-1232 Peak 3	Ave	267247					0.500				
PCB-1232 Peak 4	Ave	715722					0.500				

Curve Type Legend:

Ave = Average

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\PE-02\20140123-29005.b\PE02_38_207.D
Lims ID: std32 Lab Sample ID:
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 23-Jan-2014 12:57:02 ALS Bottle#: 0 Worklist Smp#: 13
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: buftchrom Instrument ID: PE-02
Sublist: chrom-PCBS*sub3

Method: \\Bufchrom\ChromData\PE-02\20140123-29005.b\PCBS.m
Limit Group: GC - 8082A PCB ICAL
Last Update: 27-Jan-2014 10:44:49 Calib Date: 23-Jan-2014 15:20:22
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\PE-02\20140123-29005.b\PE02_38_217.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK034

First Level Reviewer: michalej Date: 27-Jan-2014 06:42:10

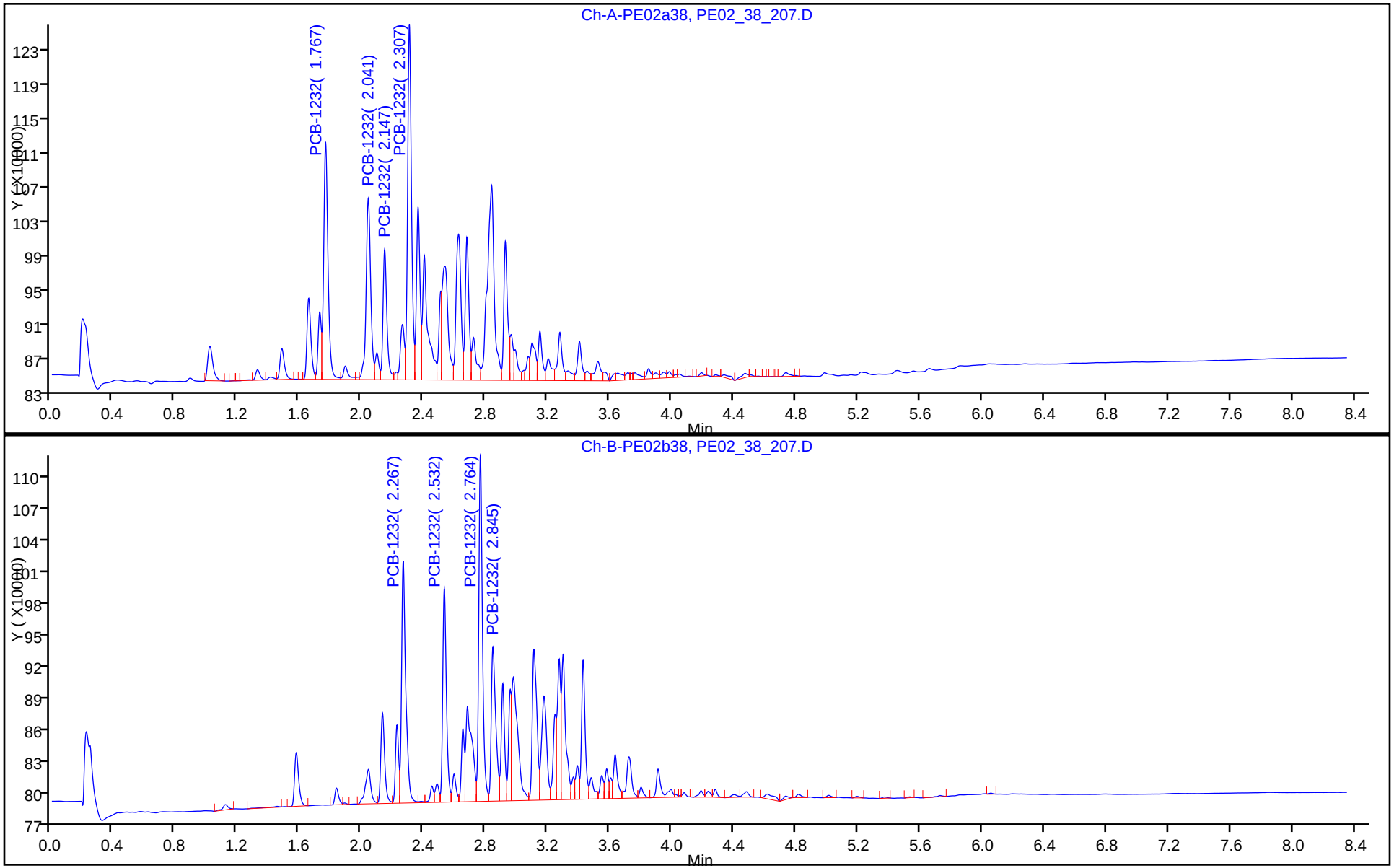
Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	On-Col Amt ng/uL	Flags
5 PCB-1232						
1	1.767	1.767	0.0	534894	0.5000	a
1	2.041	2.041	0.0	436273	0.5000	a
1	2.147	2.147	0.0	267247	0.5000	a
1	2.307	2.307	0.0	715722	0.5000	a
		Average of Peak Amounts =			0.5000	
2	2.267	2.267	0.0	432472	0.5000	a
2	2.532	2.532	0.0	335853	0.5000	a
2	2.764	2.764	0.0	543708	0.5000	a
2	2.845	2.845	0.0	294055	0.5000	a
		Average of Peak Amounts =			0.5000	
					RPD = 0.00	

Report Date: 27-Jan-2014 10:44:50 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\PE-02\20140123-29005.b\PE02_38_207.D

Injection Date:	23-Jan-2014 12:57:02	Instrument ID:	PE-02	Operator ID:	buftchrom
Lims ID:	std32	Lab Sample ID:		Worklist Smp#:	13
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	PCBS	Limit Group:	GC - 8082A PCB ICAL		



FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1 Analy Batch No.: 162934

SDG No.:

Instrument ID: PE-02 GC Column: ZB-35 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/23/2014 12:57 Calibration End Date: 01/23/2014 12:57 Calibration ID: 17169

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD32 480-162934/13	PE02_38_207.D

ANALYTE	LVL 1										RT WINDOW	AVG RT
PCB-1232 Peak 1	2.267										2.237 - 2.297	2.267
PCB-1232 Peak 2	2.532										2.502 - 2.562	2.532
PCB-1232 Peak 3	2.764										2.734 - 2.794	2.764
PCB-1232 Peak 4	2.845										2.815 - 2.875	2.845

FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1 Analy Batch No.: 162934

SDG No.:

Instrument ID: PE-02 GC Column: ZB-35 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/23/2014 12:57 Calibration End Date: 01/23/2014 12:57 Calibration ID: 17169

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD32 480-162934/13	PE02_38_207.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	864944				Ave		864944.000						20.0			
PCB-1232 Peak 2	671706				Ave		671706.000						20.0			
PCB-1232 Peak 3	1087416				Ave		1087416.00						20.0			
PCB-1232 Peak 4	588110				Ave		588110.000						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.: 480-58807-1 Analy Batch No.: 162934

SDG No.:

Instrument ID: PE-02 GC Column: ZB-35 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/23/2014 12:57 Calibration End Date: 01/23/2014 12:57 Calibration ID: 17169

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD32 480-162934/13	PE02_38_207.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
		LVL 1					LVL 1				
PCB-1232 Peak 1	Ave	432472					0.500				
PCB-1232 Peak 2	Ave	335853					0.500				
PCB-1232 Peak 3	Ave	543708					0.500				
PCB-1232 Peak 4	Ave	294055					0.500				

Curve Type Legend:

Ave = Average

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\PE-02\20140123-29005.b\PE02_38_207.D
Lims ID: std32 Lab Sample ID:
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 23-Jan-2014 12:57:02 ALS Bottle#: 0 Worklist Smp#: 13
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: buftchrom Instrument ID: PE-02
Sublist: chrom-PCBS*sub3

Method: \\Bufchrom\ChromData\PE-02\20140123-29005.b\PCBS.m
Limit Group: GC - 8082A PCB ICAL
Last Update: 27-Jan-2014 10:44:49 Calib Date: 23-Jan-2014 15:20:22
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\PE-02\20140123-29005.b\PE02_38_217.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK034

First Level Reviewer: michalej Date: 27-Jan-2014 06:42:10

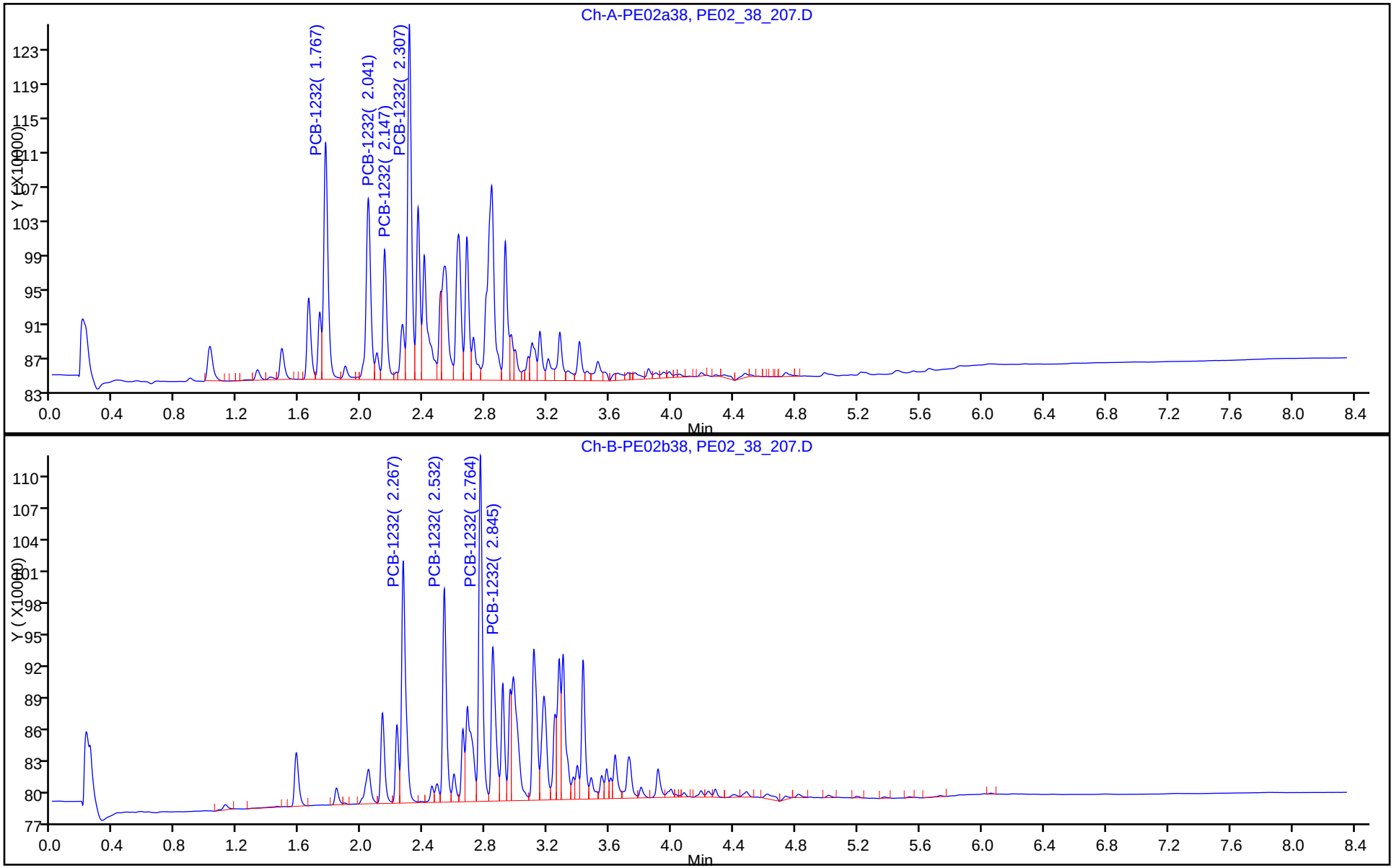
Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	On-Col Amt ng/uL	Flags
5 PCB-1232						
1	1.767	1.767	0.0	534894	0.5000	a
1	2.041	2.041	0.0	436273	0.5000	a
1	2.147	2.147	0.0	267247	0.5000	a
1	2.307	2.307	0.0	715722	0.5000	a
		Average of Peak Amounts =			0.5000	
2	2.267	2.267	0.0	432472	0.5000	a
2	2.532	2.532	0.0	335853	0.5000	a
2	2.764	2.764	0.0	543708	0.5000	a
2	2.845	2.845	0.0	294055	0.5000	a
		Average of Peak Amounts =			0.5000	
					RPD = 0.00	

Report Date: 27-Jan-2014 10:44:50 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\PE-02\20140123-29005.b\PE02_38_207.D

Injection Date:	23-Jan-2014 12:57:02	Instrument ID:	PE-02	Operator ID:	buftchrom
Lims ID:	std32	Lab Sample ID:		Worklist Smp#:	13
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	PCBS	Limit Group:	GC - 8082A PCB ICAL		



FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1 Analy Batch No.: 162934

SDG No.:

Instrument ID: PE-02 GC Column: ZB-5 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/23/2014 13:25 Calibration End Date: 01/23/2014 13:25 Calibration ID: 17174

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD42 480-162934/15	PE02_38_209.D

ANALYTE	LVL 1										RT WINDOW	AVG RT
PCB-1242 Peak 1	2.307										2.277 - 2.337	2.307
PCB-1242 Peak 2	2.364										2.334 - 2.394	2.364
PCB-1242 Peak 3	2.403										2.373 - 2.433	2.403
PCB-1242 Peak 4	2.535										2.505 - 2.565	2.535

FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1 Analy Batch No.: 162934

SDG No.:

Instrument ID: PE-02 GC Column: ZB-5 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/23/2014 13:25 Calibration End Date: 01/23/2014 13:25 Calibration ID: 17174

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD42 480-162934/15	PE02_38_209.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	2377946				Ave		2377946.00						20.0			
PCB-1242 Peak 2	1067598				Ave		1067598.00						20.0			
PCB-1242 Peak 3	1045084				Ave		1045084.00						20.0			
PCB-1242 Peak 4	1274670				Ave		1274670.00						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.: 480-58807-1 Analy Batch No.: 162934

SDG No.:

Instrument ID: PE-02 GC Column: ZB-5 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/23/2014 13:25 Calibration End Date: 01/23/2014 13:25 Calibration ID: 17174

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD42 480-162934/15	PE02_38_209.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
		LVL 1					LVL 1				
PCB-1242 Peak 1	Ave	1188973					0.500				
PCB-1242 Peak 2	Ave	533799					0.500				
PCB-1242 Peak 3	Ave	522542					0.500				
PCB-1242 Peak 4	Ave	637335					0.500				

Curve Type Legend:

Ave = Average

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\PE-02\20140123-29005.b\PE02_38_209.D
Lims ID: std42 Lab Sample ID:
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 23-Jan-2014 13:25:36 ALS Bottle#: 0 Worklist Smp#: 15
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: buftchrom Instrument ID: PE-02
Sublist: chrom-PCBS*sub4

Method: \\Bufchrom\ChromData\PE-02\20140123-29005.b\PCBS.m
Limit Group: GC - 8082A PCB ICAL
Last Update: 27-Jan-2014 10:44:58 Calib Date: 23-Jan-2014 15:20:22
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\PE-02\20140123-29005.b\PE02_38_217.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK034

First Level Reviewer: michalej Date: 27-Jan-2014 06:43:38

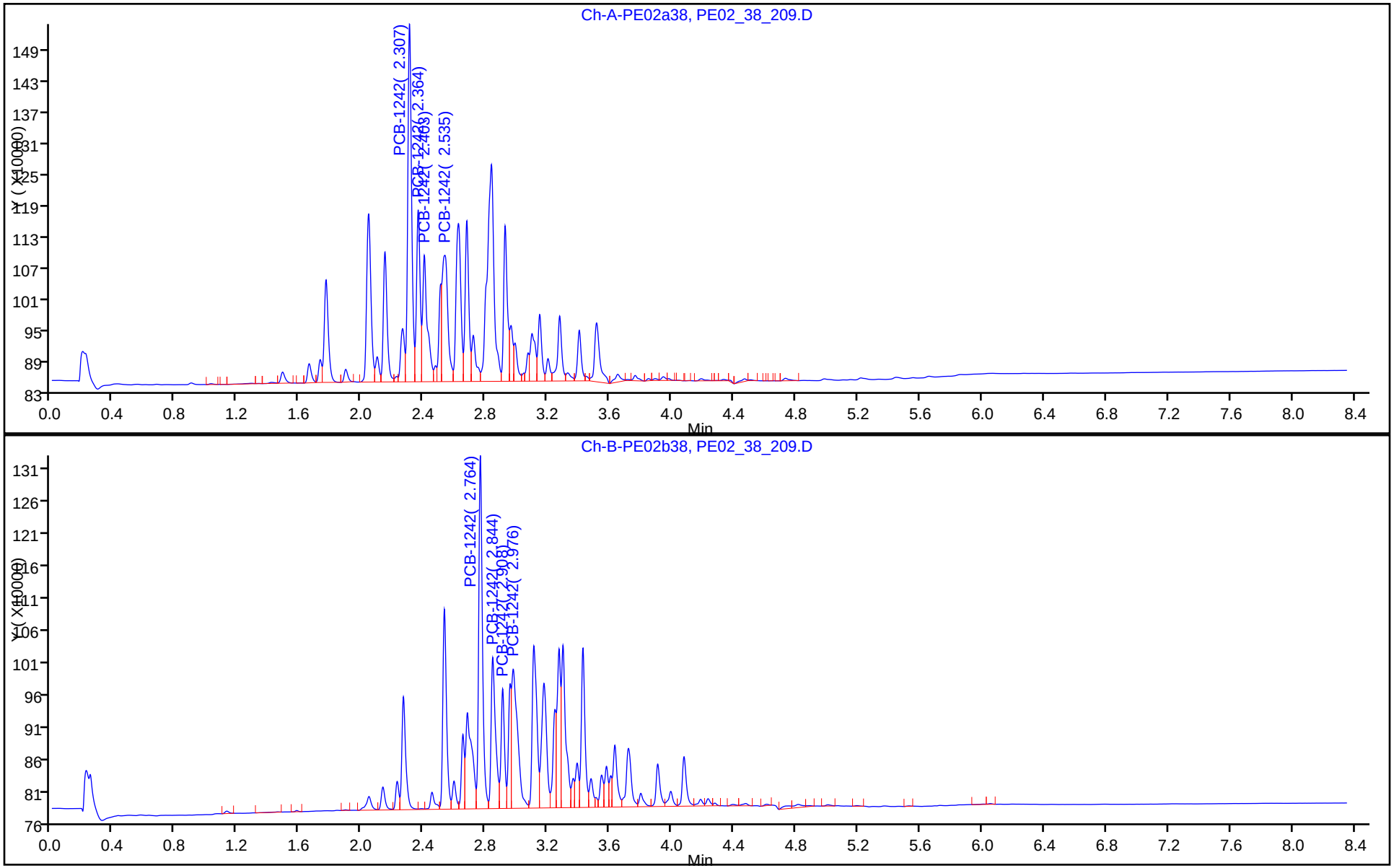
Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	On-Col Amt ng/uL	Flags
4 PCB-1242						
1	2.307	2.307	0.0	1188973	0.5000	a
1	2.364	2.364	0.0	533799	0.5000	a
1	2.403	2.403	0.0	522542	0.5000	a
1	2.535	2.535	0.0	637335	0.5000	a
		Average of Peak Amounts =			0.5000	
2	2.764	2.764	0.0	907228	0.5000	a
2	2.844	2.844	0.0	462652	0.5000	a
2	2.908	2.908	0.0	288309	0.5000	a
2	2.976	2.976	0.0	575296	0.5000	a
		Average of Peak Amounts =			0.5000	
					RPD = 0.00	

Report Date: 27-Jan-2014 10:44:59 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\PE-02\20140123-29005.b\PE02_38_209.D

Injection Date:	23-Jan-2014 13:25:36	Instrument ID:	PE-02	Operator ID:	buftchrom
Lims ID:	std42	Lab Sample ID:		Worklist Smp#:	15
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	PCBS	Limit Group:	GC - 8082A PCB ICAL		



FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1 Analy Batch No.: 162934

SDG No.:

Instrument ID: PE-02 GC Column: ZB-35 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/23/2014 13:25 Calibration End Date: 01/23/2014 13:25 Calibration ID: 17175

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD42 480-162934/15	PE02_38_209.D

ANALYTE	LVL 1										RT WINDOW	AVG RT
PCB-1242 Peak 1	2.764										2.734 - 2.794	2.764
PCB-1242 Peak 2	2.844										2.814 - 2.874	2.844
PCB-1242 Peak 3	2.908										2.878 - 2.938	2.908
PCB-1242 Peak 4	2.976										2.946 - 3.006	2.976

FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1 Analy Batch No.: 162934

SDG No.:

Instrument ID: PE-02 GC Column: ZB-35 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/23/2014 13:25 Calibration End Date: 01/23/2014 13:25 Calibration ID: 17175

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD42 480-162934/15	PE02_38_209.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	1814456				Ave		1814456.00						20.0			
PCB-1242 Peak 2	925304				Ave		925304.000						20.0			
PCB-1242 Peak 3	576618				Ave		576618.000						20.0			
PCB-1242 Peak 4	1150592				Ave		1150592.00						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.: 480-58807-1 Analy Batch No.: 162934

SDG No.:

Instrument ID: PE-02 GC Column: ZB-35 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/23/2014 13:25 Calibration End Date: 01/23/2014 13:25 Calibration ID: 17175

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD42 480-162934/15	PE02_38_209.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
		LVL 1					LVL 1				
PCB-1242 Peak 1	Ave	907228					0.500				
PCB-1242 Peak 2	Ave	462652					0.500				
PCB-1242 Peak 3	Ave	288309					0.500				
PCB-1242 Peak 4	Ave	575296					0.500				

Curve Type Legend:

Ave = Average

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\PE-02\20140123-29005.b\PE02_38_209.D
Lims ID: std42 Lab Sample ID:
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 23-Jan-2014 13:25:36 ALS Bottle#: 0 Worklist Smp#: 15
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: buftchrom Instrument ID: PE-02
Sublist: chrom-PCBS*sub4

Method: \\Bufchrom\ChromData\PE-02\20140123-29005.b\PCBS.m
Limit Group: GC - 8082A PCB ICAL
Last Update: 27-Jan-2014 10:44:58 Calib Date: 23-Jan-2014 15:20:22
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\PE-02\20140123-29005.b\PE02_38_217.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK034

First Level Reviewer: michalej Date: 27-Jan-2014 06:43:38

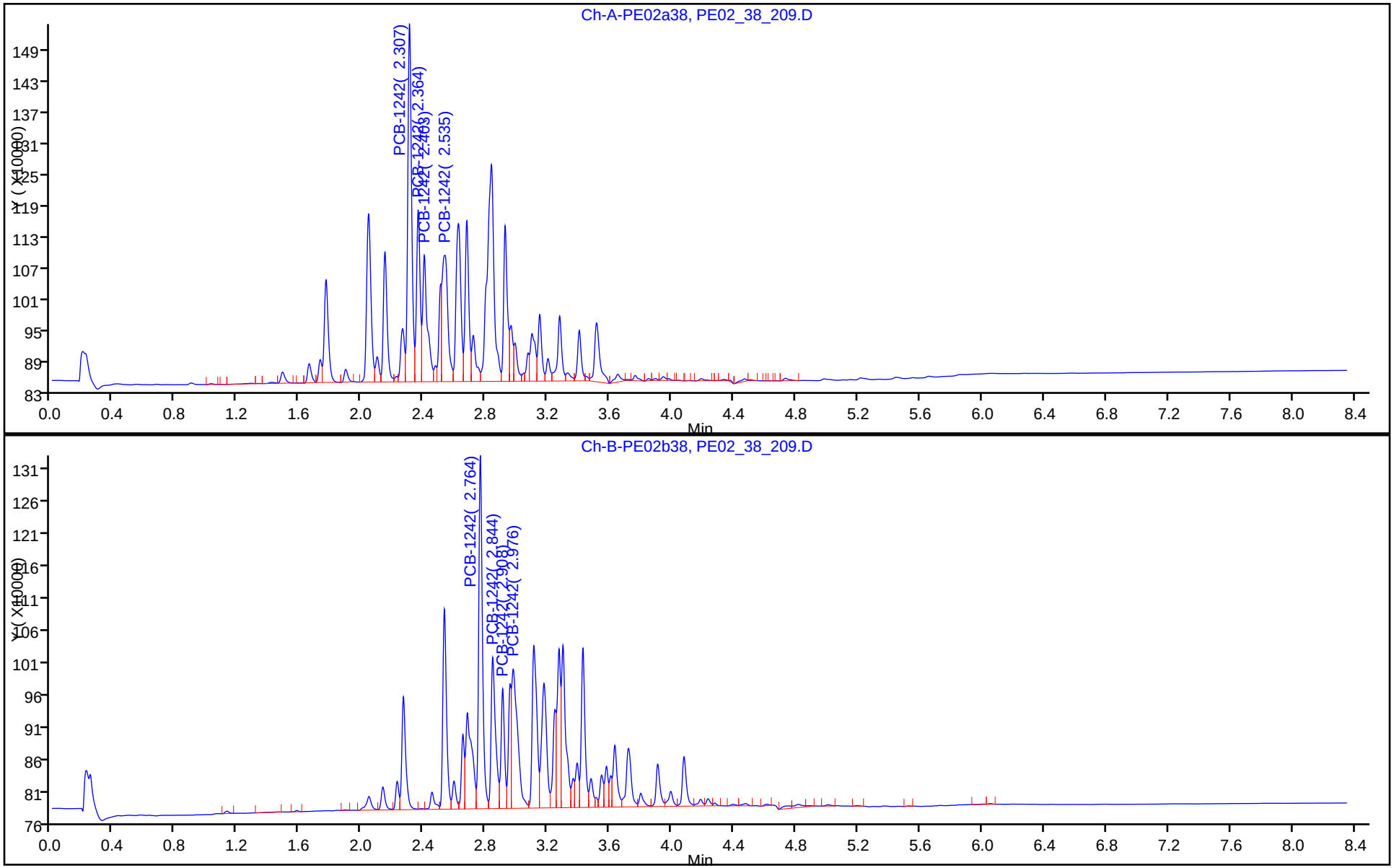
Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	On-Col Amt ng/uL	Flags
4 PCB-1242						
1	2.307	2.307	0.0	1188973	0.5000	a
1	2.364	2.364	0.0	533799	0.5000	a
1	2.403	2.403	0.0	522542	0.5000	a
1	2.535	2.535	0.0	637335	0.5000	a
		Average of Peak Amounts =			0.5000	
2	2.764	2.764	0.0	907228	0.5000	a
2	2.844	2.844	0.0	462652	0.5000	a
2	2.908	2.908	0.0	288309	0.5000	a
2	2.976	2.976	0.0	575296	0.5000	a
		Average of Peak Amounts =			0.5000	
					RPD = 0.00	

Report Date: 27-Jan-2014 10:44:59 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\PE-02\20140123-29005.b\PE02_38_209.D

Injection Date:	23-Jan-2014 13:25:36	Instrument ID:	PE-02	Operator ID:	buftchrom
Lims ID:	std42	Lab Sample ID:		Worklist Smp#:	15
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	PCBS	Limit Group:	GC - 8082A PCB ICAL		



FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1 Analy Batch No.: 162934

SDG No.:

Instrument ID: PE-02 GC Column: ZB-5 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/23/2014 13:54 Calibration End Date: 01/23/2014 13:54 Calibration ID: 17180

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD48 480-162934/17	PE02_38_211.D

ANALYTE	LVL 1										RT WINDOW	AVG RT
PCB-1248 Peak 1	2.616										2.586 - 2.646	2.616
PCB-1248 Peak 2	2.676										2.646 - 2.706	2.676
PCB-1248 Peak 3	2.836										2.806 - 2.866	2.836
PCB-1248 Peak 4	2.924										2.894 - 2.954	2.924

FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1 Analy Batch No.: 162934

SDG No.:

Instrument ID: PE-02 GC Column: ZB-5 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/23/2014 13:54 Calibration End Date: 01/23/2014 13:54 Calibration ID: 17180

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD48 480-162934/17	PE02_38_211.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	1722506				Ave		1722506.00						20.0			
PCB-1248 Peak 2	1465674				Ave		1465674.00						20.0			
PCB-1248 Peak 3	4163020				Ave		4163020.00						20.0			
PCB-1248 Peak 4	1509158				Ave		1509158.00						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.: 480-58807-1 Analy Batch No.: 162934

SDG No.:

Instrument ID: PE-02 GC Column: ZB-5 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/23/2014 13:54 Calibration End Date: 01/23/2014 13:54 Calibration ID: 17180

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD48 480-162934/17	PE02_38_211.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
		LVL 1					LVL 1				
PCB-1248 Peak 1	Ave	861253					0.500				
PCB-1248 Peak 2	Ave	732837					0.500				
PCB-1248 Peak 3	Ave	2081510					0.500				
PCB-1248 Peak 4	Ave	754579					0.500				

Curve Type Legend:

Ave = Average

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\PE-02\20140123-29005.b\PE02_38_211.D
Lims ID: std48 Lab Sample ID:
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 23-Jan-2014 13:54:12 ALS Bottle#: 0 Worklist Smp#: 17
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: buftchrom Instrument ID: PE-02
Sublist: chrom-PCBS*sub5

Method: \\Bufchrom\ChromData\PE-02\20140123-29005.b\PCBS.m
Limit Group: GC - 8082A PCB ICAL
Last Update: 27-Jan-2014 10:45:09 Calib Date: 23-Jan-2014 15:20:22
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\PE-02\20140123-29005.b\PE02_38_217.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK034

First Level Reviewer: michalej Date: 27-Jan-2014 09:37:36

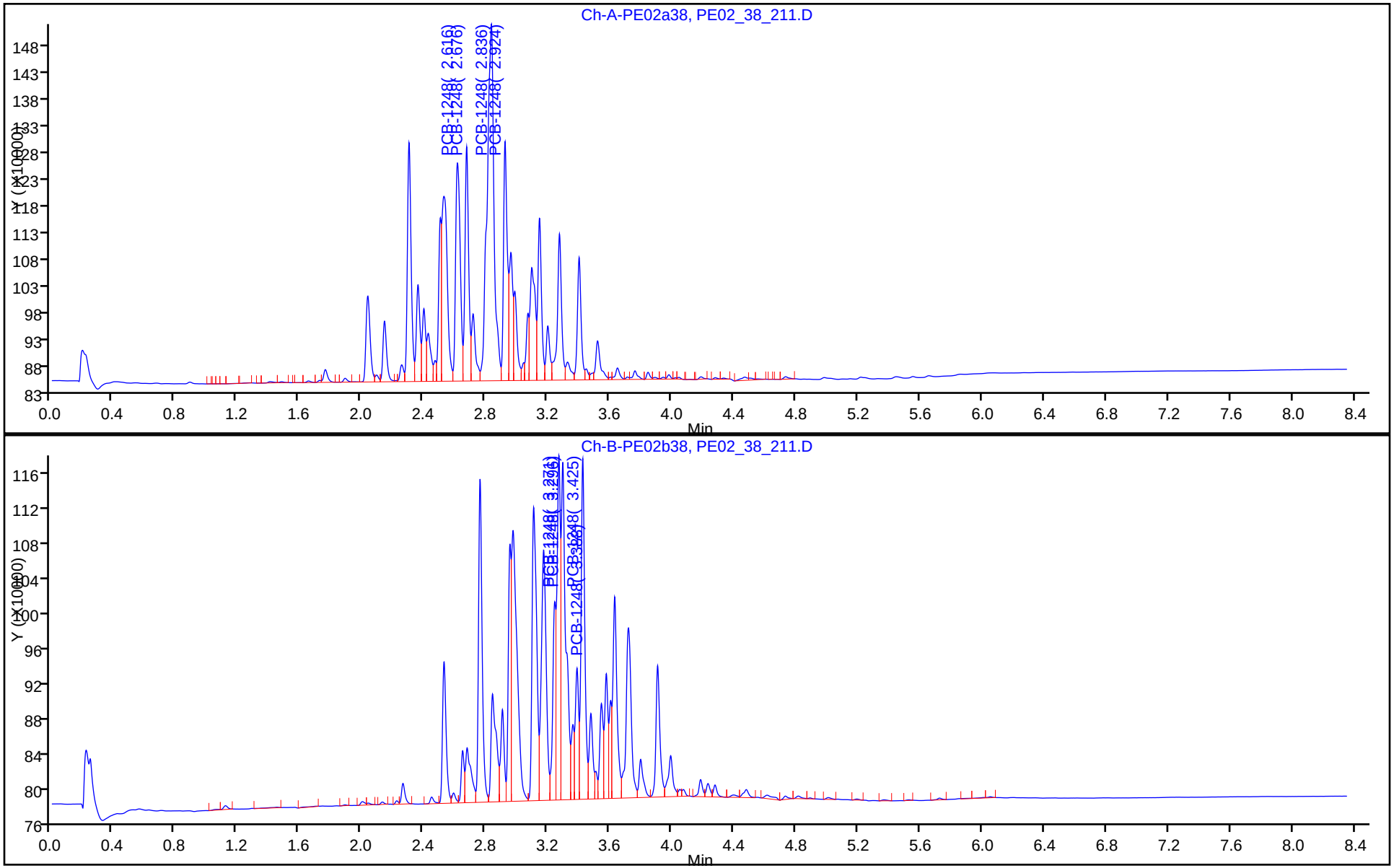
Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	On-Col Amt ng/uL	Flags
7 PCB-1248						
1	2.616	2.616	0.0	861253	0.5000	a
1	2.676	2.676	0.0	732837	0.5000	a
1	2.836	2.836	0.0	2081510	0.5000	a
1	2.924	2.924	0.0	754579	0.5000	a
		Average of Peak Amounts =			0.5000	
2	3.271	3.271	0.0	586463	0.5000	a
2	3.296	3.296	0.0	779263	0.5000	a
2	3.388	3.388	0.0	216397	0.5000	a
2	3.425	3.425	0.0	639124	0.5000	a
		Average of Peak Amounts =			0.5000	
					RPD = 0.00	

Report Date: 27-Jan-2014 10:45:09 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\PE-02\20140123-29005.b\PE02_38_211.D

Injection Date:	23-Jan-2014 13:54:12	Instrument ID:	PE-02	Operator ID:	buftchrom
Lims ID:	std48	Lab Sample ID:		Worklist Smp#:	17
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	PCBS	Limit Group:	GC - 8082A PCB ICAL		



FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1 Analy Batch No.: 162934

SDG No.:

Instrument ID: PE-02 GC Column: ZB-35 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/23/2014 13:54 Calibration End Date: 01/23/2014 13:54 Calibration ID: 17181

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD48 480-162934/17	PE02_38_211.D

ANALYTE	LVL 1										RT WINDOW	AVG RT
PCB-1248 Peak 1	3.271										3.241 - 3.301	3.271
PCB-1248 Peak 2	3.296										3.266 - 3.326	3.296
PCB-1248 Peak 3	3.388										3.358 - 3.418	3.388
PCB-1248 Peak 4	3.425										3.395 - 3.455	3.425

FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1 Analy Batch No.: 162934

SDG No.:

Instrument ID: PE-02 GC Column: ZB-35 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/23/2014 13:54 Calibration End Date: 01/23/2014 13:54 Calibration ID: 17181

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD48 480-162934/17	PE02_38_211.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	1172926				Ave		1172926.00						20.0			
PCB-1248 Peak 2	1558526				Ave		1558526.00						20.0			
PCB-1248 Peak 3	432794				Ave		432794.000						20.0			
PCB-1248 Peak 4	1278248				Ave		1278248.00						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.: 480-58807-1 Analy Batch No.: 162934

SDG No.:

Instrument ID: PE-02 GC Column: ZB-35 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/23/2014 13:54 Calibration End Date: 01/23/2014 13:54 Calibration ID: 17181

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD48 480-162934/17	PE02_38_211.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
		LVL 1					LVL 1				
PCB-1248 Peak 1	Ave	586463					0.500				
PCB-1248 Peak 2	Ave	779263					0.500				
PCB-1248 Peak 3	Ave	216397					0.500				
PCB-1248 Peak 4	Ave	639124					0.500				

Curve Type Legend:

Ave = Average

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\PE-02\20140123-29005.b\PE02_38_211.D
Lims ID: std48 Lab Sample ID:
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 23-Jan-2014 13:54:12 ALS Bottle#: 0 Worklist Smp#: 17
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: buftchrom Instrument ID: PE-02
Sublist: chrom-PCBS*sub5

Method: \\Bufchrom\ChromData\PE-02\20140123-29005.b\PCBS.m
Limit Group: GC - 8082A PCB ICAL
Last Update: 27-Jan-2014 10:45:09 Calib Date: 23-Jan-2014 15:20:22
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\PE-02\20140123-29005.b\PE02_38_217.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK034

First Level Reviewer: michalej Date: 27-Jan-2014 09:37:36

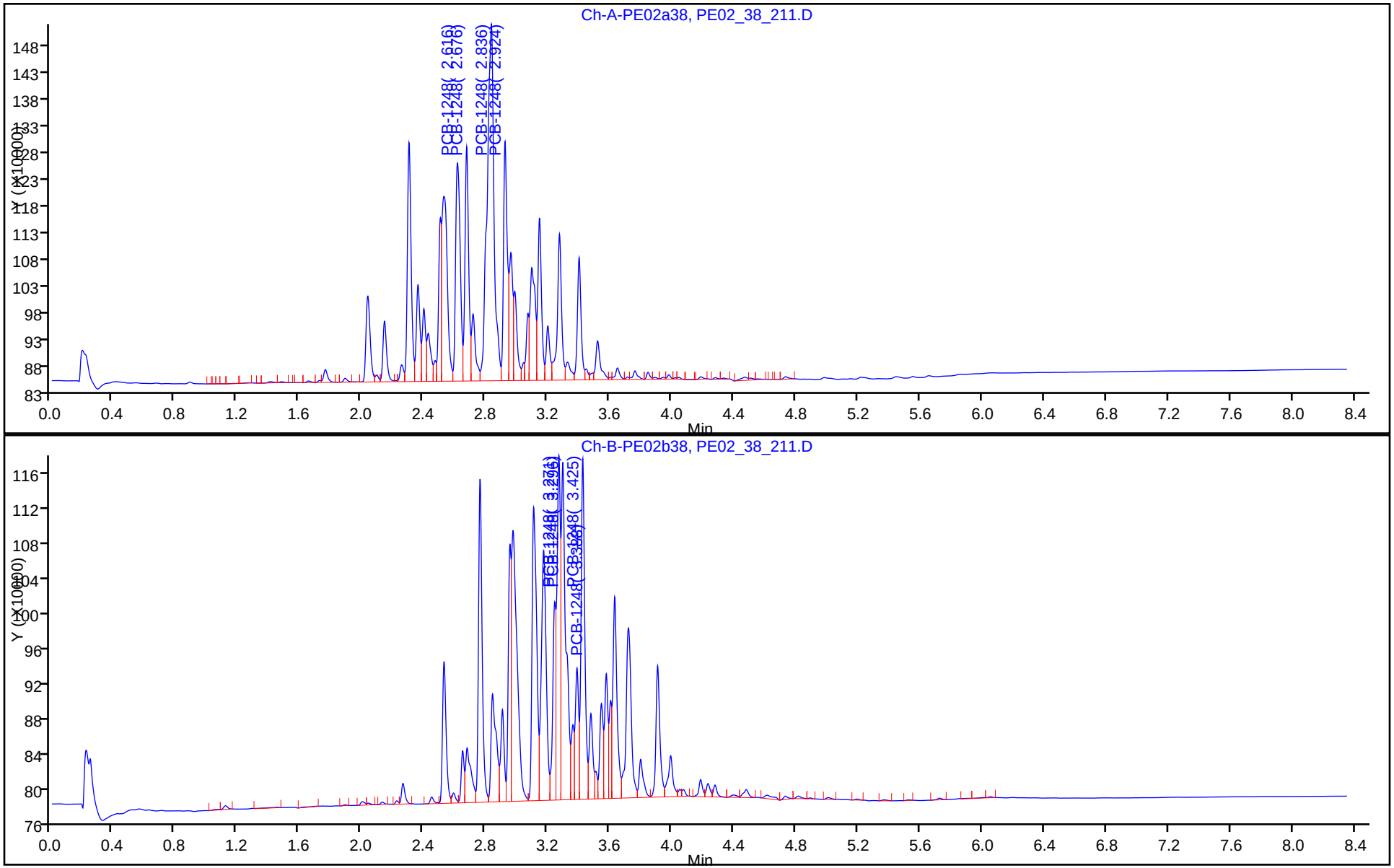
Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	On-Col Amt ng/uL	Flags
7 PCB-1248						
1	2.616	2.616	0.0	861253	0.5000	a
1	2.676	2.676	0.0	732837	0.5000	a
1	2.836	2.836	0.0	2081510	0.5000	a
1	2.924	2.924	0.0	754579	0.5000	a
		Average of Peak Amounts =			0.5000	
2	3.271	3.271	0.0	586463	0.5000	a
2	3.296	3.296	0.0	779263	0.5000	a
2	3.388	3.388	0.0	216397	0.5000	a
2	3.425	3.425	0.0	639124	0.5000	a
		Average of Peak Amounts =			0.5000	
					RPD = 0.00	

Report Date: 27-Jan-2014 10:45:09 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\PE-02\20140123-29005.b\PE02_38_211.D

Injection Date:	23-Jan-2014 13:54:12	Instrument ID:	PE-02	Operator ID:	buftchrom
Lims ID:	std48	Lab Sample ID:		Worklist Smp#:	17
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	PCBS	Limit Group:	GC - 8082A PCB ICAL		



FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1 Analy Batch No.: 162934

SDG No.:

Instrument ID: PE-02 GC Column: ZB-5 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/23/2014 14:22 Calibration End Date: 01/23/2014 14:22 Calibration ID: 17186

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD54 480-162934/19	PE02_38_213.D

ANALYTE	LVL 1										RT WINDOW	AVG RT
PCB-1254 Peak 1	3.096										3.066 - 3.126	3.096
PCB-1254 Peak 2	3.145										3.115 - 3.175	3.145
PCB-1254 Peak 3	3.275										3.245 - 3.305	3.275
PCB-1254 Peak 4	3.397										3.367 - 3.427	3.397

FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1 Analy Batch No.: 162934

SDG No.:

Instrument ID: PE-02 GC Column: ZB-5 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/23/2014 14:22 Calibration End Date: 01/23/2014 14:22 Calibration ID: 17186

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD54 480-162934/19	PE02_38_213.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	1966352				Ave		1966352.00						20.0			
PCB-1254 Peak 2	2640284				Ave		2640284.00						20.0			
PCB-1254 Peak 3	3295476				Ave		3295476.00						20.0			
PCB-1254 Peak 4	3084970				Ave		3084970.00						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.: 480-58807-1 Analy Batch No.: 162934

SDG No.:

Instrument ID: PE-02 GC Column: ZB-5 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/23/2014 14:22 Calibration End Date: 01/23/2014 14:22 Calibration ID: 17186

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD54 480-162934/19	PE02_38_213.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
		LVL 1					LVL 1				
PCB-1254 Peak 1	Ave	983176					0.500				
PCB-1254 Peak 2	Ave	1320142					0.500				
PCB-1254 Peak 3	Ave	1647738					0.500				
PCB-1254 Peak 4	Ave	1542485					0.500				

Curve Type Legend:

Ave = Average

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\PE-02\20140123-29005.b\PE02_38_213.D
Lims ID: std54 Lab Sample ID:
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 23-Jan-2014 14:22:55 ALS Bottle#: 0 Worklist Smp#: 19
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: buftchrom Instrument ID: PE-02
Sublist: chrom-PCBS*sub6

Method: \\Bufchrom\ChromData\PE-02\20140123-29005.b\PCBS.m
Limit Group: GC - 8082A PCB ICAL
Last Update: 27-Jan-2014 10:45:19 Calib Date: 23-Jan-2014 15:20:22
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\PE-02\20140123-29005.b\PE02_38_217.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK034

First Level Reviewer: michalej Date: 27-Jan-2014 09:39:16

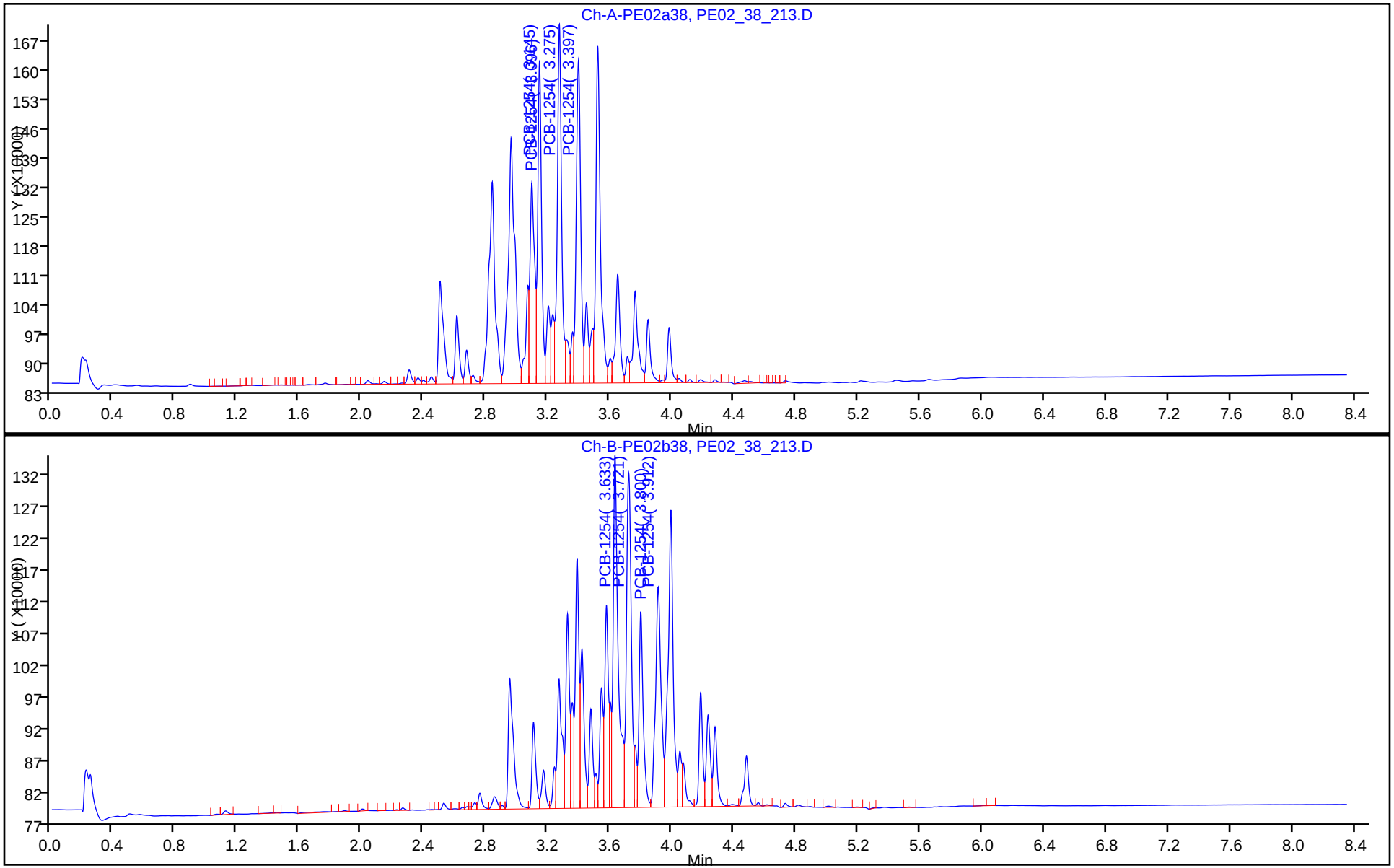
Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	On-Col Amt ng/uL	Flags
8 PCB-1254						
1	3.096	3.096	0.0	983176	0.5000	a
1	3.145	3.145	0.0	1320142	0.5000	a
1	3.275	3.275	0.0	1647738	0.5000	a
1	3.397	3.397	0.0	1542485	0.5000	a
		Average of Peak Amounts =			0.5000	
2	3.633	3.633	0.0	1246459	0.5000	a
2	3.721	3.721	0.0	1124734	0.5000	a
2	3.800	3.800	0.0	577391	0.5000	a
2	3.912	3.912	0.0	859707	0.5000	a
		Average of Peak Amounts =			0.5000	
					RPD = 0.00	

Report Date: 27-Jan-2014 10:45:19 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\PE-02\20140123-29005.b\PE02_38_213.D

Injection Date:	23-Jan-2014 14:22:55	Instrument ID:	PE-02	Operator ID:	buftchrom
Lims ID:	std54	Lab Sample ID:		Worklist Smp#:	19
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	PCBS	Limit Group:	GC - 8082A PCB ICAL		



FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1 Analy Batch No.: 162934

SDG No.:

Instrument ID: PE-02 GC Column: ZB-35 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/23/2014 14:22 Calibration End Date: 01/23/2014 14:22 Calibration ID: 17187

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD54 480-162934/19	PE02_38_213.D

ANALYTE	LVL 1										RT WINDOW	AVG RT
PCB-1254 Peak 1	3.633										3.603 - 3.663	3.633
PCB-1254 Peak 2	3.721										3.691 - 3.751	3.721
PCB-1254 Peak 3	3.800										3.770 - 3.830	3.800
PCB-1254 Peak 4	3.912										3.882 - 3.942	3.912

FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1 Analy Batch No.: 162934

SDG No.:

Instrument ID: PE-02 GC Column: ZB-35 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/23/2014 14:22 Calibration End Date: 01/23/2014 14:22 Calibration ID: 17187

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD54 480-162934/19	PE02_38_213.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	2492918				Ave		2492918.00						20.0			
PCB-1254 Peak 2	2249468				Ave		2249468.00						20.0			
PCB-1254 Peak 3	1154782				Ave		1154782.00						20.0			
PCB-1254 Peak 4	1719414				Ave		1719414.00						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.: 480-58807-1 Analy Batch No.: 162934

SDG No.:

Instrument ID: PE-02 GC Column: ZB-35 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/23/2014 14:22 Calibration End Date: 01/23/2014 14:22 Calibration ID: 17187

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD54 480-162934/19	PE02_38_213.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
		LVL 1					LVL 1				
PCB-1254 Peak 1	Ave	1246459					0.500				
PCB-1254 Peak 2	Ave	1124734					0.500				
PCB-1254 Peak 3	Ave	577391					0.500				
PCB-1254 Peak 4	Ave	859707					0.500				

Curve Type Legend:

Ave = Average

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\PE-02\20140123-29005.b\PE02_38_213.D
Lims ID: std54 Lab Sample ID:
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 23-Jan-2014 14:22:55 ALS Bottle#: 0 Worklist Smp#: 19
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: buftchrom Instrument ID: PE-02
Sublist: chrom-PCBS*sub6

Method: \\Bufchrom\ChromData\PE-02\20140123-29005.b\PCBS.m
Limit Group: GC - 8082A PCB ICAL
Last Update: 27-Jan-2014 10:45:19 Calib Date: 23-Jan-2014 15:20:22
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\PE-02\20140123-29005.b\PE02_38_217.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK034

First Level Reviewer: michalej Date: 27-Jan-2014 09:39:16

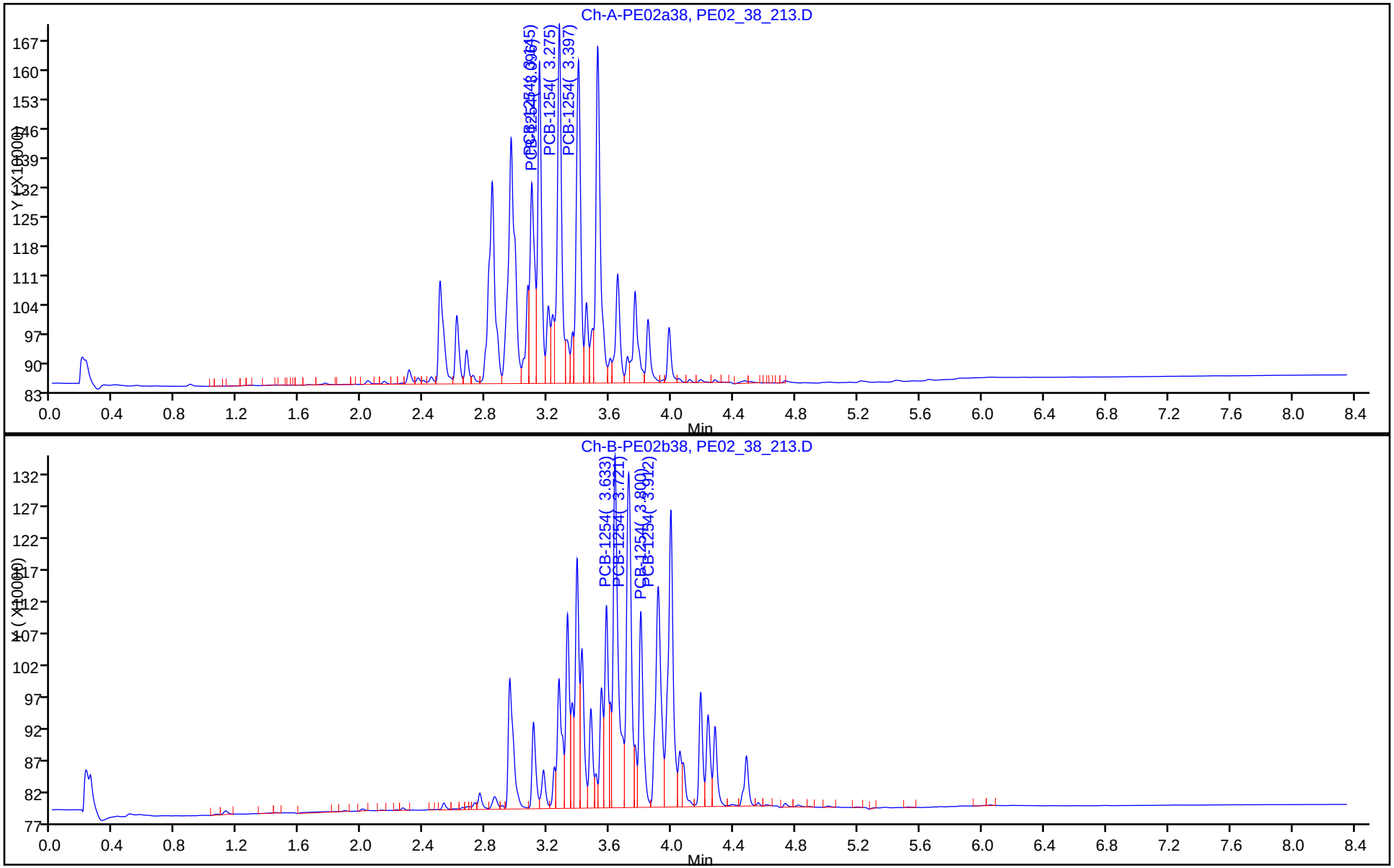
Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	On-Col Amt ng/uL	Flags
8 PCB-1254						
1	3.096	3.096	0.0	983176	0.5000	a
1	3.145	3.145	0.0	1320142	0.5000	a
1	3.275	3.275	0.0	1647738	0.5000	a
1	3.397	3.397	0.0	1542485	0.5000	a
		Average of Peak Amounts =			0.5000	
2	3.633	3.633	0.0	1246459	0.5000	a
2	3.721	3.721	0.0	1124734	0.5000	a
2	3.800	3.800	0.0	577391	0.5000	a
2	3.912	3.912	0.0	859707	0.5000	a
		Average of Peak Amounts =			0.5000	
					RPD = 0.00	

Report Date: 27-Jan-2014 10:45:19 Chrom Revision: 2.1 15-Jan-2014 14:06:26

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\PE-02\20140123-29005.b\PE02_38_213.D

Injection Date:	23-Jan-2014 14:22:55	Instrument ID:	PE-02	Operator ID:	buftchrom
Lims ID:	std54	Lab Sample ID:		Worklist Smp#:	19
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	PCBS	Limit Group:	GC - 8082A PCB ICAL		



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1

SDG No.:

Lab Sample ID: CCV 480-179084/73 Calibration Date: 04/30/2014 10:16

Instrument ID: PE-02 Calib Start Date: 01/23/2014 10:33

GC Column: ZB-5 ID: 0.53(mm) Calib End Date: 01/23/2014 11:59

Lab File ID: PE02_49_023.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	1102431	1193138		0.541	0.500	8.2	20.0
PCB-1016 Peak 2	Ave	3133067	3100198		0.495	0.500	-1.0	20.0
PCB-1016 Peak 3	Ave	1386036	1434962		0.518	0.500	3.5	20.0
PCB-1016 Peak 4	Ave	1627381	1644004		0.505	0.500	1.0	20.0
PCB-1260 Peak 1	Ave	4258386	4145134		0.487	0.500	-2.7	20.0
PCB-1260 Peak 2	Ave	1816638	1724184		0.475	0.500	-5.1	20.0
PCB-1260 Peak 3	Ave	6617989	6191040		0.468	0.500	-6.5	20.0
PCB-1260 Peak 4	Ave	2833045	2727314		0.481	0.500	-3.7	20.0
Tetrachloro-m-xylene	Ave	43878920	47109867		0.0322	0.0300	7.4	20.0
DCB Decachlorobiphenyl	Lin		57493233		0.0360	0.0300	20.2*	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1

SDG No.:

Lab Sample ID: CCV 480-179084/73 Calibration Date: 04/30/2014 10:16

Instrument ID: PE-02 Calib Start Date: 01/23/2014 10:33

GC Column: ZB-5 ID: 0.53(mm) Calib End Date: 01/23/2014 11:59

Lab File ID: PE02_49_023.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	2.12	2.09	2.15
PCB-1016 Peak 2	2.28	2.25	2.31
PCB-1016 Peak 3	2.33	2.31	2.37
PCB-1016 Peak 4	2.59	2.57	2.63
PCB-1260 Peak 1	3.50	3.47	3.53
PCB-1260 Peak 2	3.69	3.66	3.72
PCB-1260 Peak 3	3.82	3.80	3.86
PCB-1260 Peak 4	3.96	3.93	3.99
Tetrachloro-m-xylene	1.45	1.42	1.48
DCB Decachlorobiphenyl	4.56	4.53	4.59

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\PE-02\20140430-31599.b\PE02_49_023.D
Lims ID: ccv
Client ID:
Sample Type: CCV
Inject. Date: 30-Apr-2014 10:16:50 ALS Bottle#: 0 Worklist Smp#: 73
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name: CCV
Misc. Info.: Study: 480-0031599-073 Channel B: I/F Serial#, 680S10042901
Operator ID: buftchrom Instrument ID: PE-02
Sublist: chrom-PCBS*sub9

Method: \\Bufchrom\ChromData\PE-02\20140430-31599.b\PCBS.m
Limit Group: GC - 8082A PCB ICAL
Last Update: 30-Apr-2014 11:09:19 Calib Date: 23-Jan-2014 15:20:22
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\PE-02\20140123-29005.b\PE02_38_217.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK023

First Level Reviewer: michalej Date: 30-Apr-2014 10:39:46

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
$ 3 Tetrachloro-m-xylene							
1	1.445	1.448	-0.003	1413296	0.0300	0.0322	
2	1.784	1.788	-0.004	956566	0.0300	0.0294	
						RPD = 9.10	
6 PCB-1016							
1	2.117	2.121	-0.004	596569	0.5000	0.5411	
1	2.276	2.280	-0.004	1550099	0.5000	0.4948	
1	2.333	2.337	-0.004	717481	0.5000	0.5176	
1	2.592	2.596	-0.004	822002	0.5000	0.5051	
		Average of Peak Amounts =				0.5147	
2	2.215	2.219	-0.004	362532	0.5000	0.4814	
2	2.712	2.716	-0.004	1122119	0.5000	0.4572	
2	2.791	2.796	-0.005	562538	0.5000	0.4711	
2	2.856	2.860	-0.004	357074	0.5000	0.5086	
		Average of Peak Amounts =				0.4796	
						RPD = 7.06	
9 PCB-1260							
1	3.496	3.499	-0.003	2072567	0.5000	0.4867	
1	3.689	3.692	-0.003	862092	0.5000	0.4746	
1	3.823	3.825	-0.002	3095520	0.5000	0.4677	
1	3.959	3.960	-0.001	1363657	0.5000	0.4813	
		Average of Peak Amounts =				0.4776	
2	4.229	4.232	-0.003	1668238	0.5000	0.4226	
2	4.635	4.636	-0.001	248942	0.5000	0.5025	
2	4.681	4.683	-0.002	526494	0.5000	0.4664	
2	4.844	4.845	-0.001	151741	0.5000	0.3866	
		Average of Peak Amounts =				0.4445	
						RPD = 7.17	

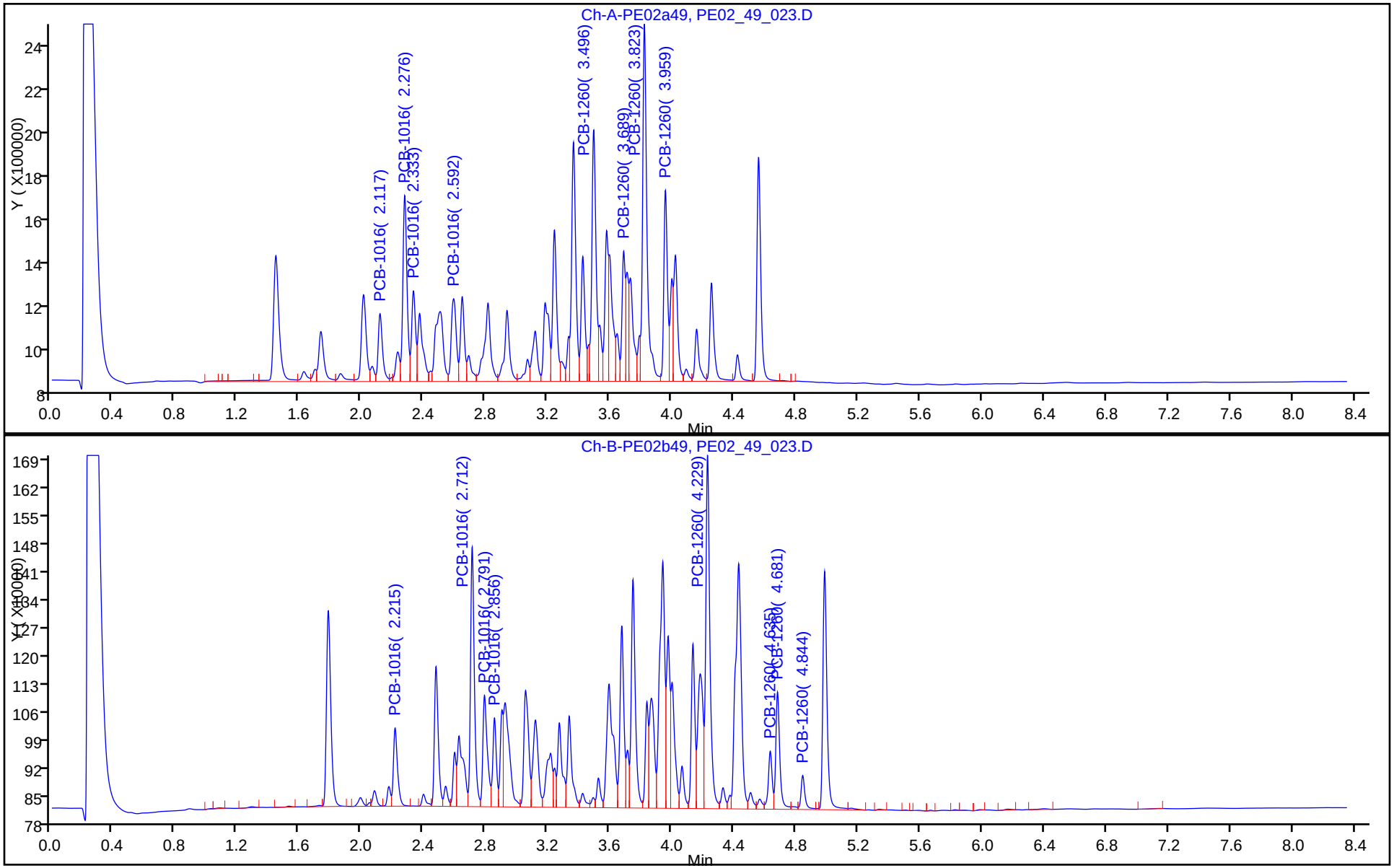
Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
$ 12 DCB Decachlorobiphenyl							
1	4.559	4.560	-0.001	1724797	0.0300	0.0360	
2	4.985	4.985	0.000	1094550	0.0300	0.0356	
						RPD = 1.14	

Report Date: 30-Apr-2014 11:09:20 Chrom Revision: 2.2 14-Apr-2014 13:40:08

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\PE-02\20140430-31599.b\PE02_49_023.D

Injection Date:	30-Apr-2014 10:16:50	Instrument ID:	PE-02	Operator ID:	buftchrom
Lims ID:	ccv			Worklist Smp#:	73
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	PCBS	Limit Group:	GC - 8082A PCB ICAL		



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1

SDG No.:

Lab Sample ID: CCV 480-179084/73 Calibration Date: 04/30/2014 10:16

Instrument ID: PE-02 Calib Start Date: 01/23/2014 10:33

GC Column: ZB-35 ID: 0.53(mm) Calib End Date: 01/23/2014 11:59

Lab File ID: PE02_49_023.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	753106	725064		0.481	0.500	-3.7	20.0
PCB-1016 Peak 2	Ave	2454191	2244238		0.457	0.500	-8.6	20.0
PCB-1016 Peak 3	Ave	1194047	1125076		0.471	0.500	-5.8	20.0
PCB-1016 Peak 4	Ave	702105	714148		0.509	0.500	1.7	20.0
PCB-1260 Peak 1	Ave	3947401	3336476		0.423	0.500	-15.5	20.0
PCB-1260 Peak 2	Ave	495414	497884		0.502	0.500	0.5	20.0
PCB-1260 Peak 3	Ave	1128923	1052988		0.466	0.500	-6.7	20.0
PCB-1260 Peak 4	Ave	392510	303482		0.387	0.500	-22.7*	20.0
Tetrachloro-m-xylene	Ave	32528946	31885533		0.0294	0.0300	-2.0	20.0
DCB Decachlorobiphenyl	Lin		36485000		0.0356	0.0300	18.8	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1

SDG No.:

Lab Sample ID: CCV 480-179084/73 Calibration Date: 04/30/2014 10:16

Instrument ID: PE-02 Calib Start Date: 01/23/2014 10:33

GC Column: ZB-35 ID: 0.53(mm) Calib End Date: 01/23/2014 11:59

Lab File ID: PE02_49_023.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	2.22	2.19	2.25
PCB-1016 Peak 2	2.71	2.69	2.75
PCB-1016 Peak 3	2.79	2.77	2.83
PCB-1016 Peak 4	2.86	2.83	2.89
PCB-1260 Peak 1	4.23	4.20	4.26
PCB-1260 Peak 2	4.64	4.61	4.67
PCB-1260 Peak 3	4.68	4.65	4.71
PCB-1260 Peak 4	4.84	4.82	4.88
Tetrachloro-m-xylene	1.78	1.76	1.82
DCB Decachlorobiphenyl	4.99	4.96	5.02

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\PE-02\20140430-31599.b\PE02_49_023.D
Lims ID: ccv
Client ID:
Sample Type: CCV
Inject. Date: 30-Apr-2014 10:16:50 ALS Bottle#: 0 Worklist Smp#: 73
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name: CCV
Misc. Info.: Study: 480-0031599-073 Channel B: I/F Serial#, 680S10042901
Operator ID: buftchrom Instrument ID: PE-02
Sublist: chrom-PCBS*sub9

Method: \\Bufchrom\ChromData\PE-02\20140430-31599.b\PCBS.m
Limit Group: GC - 8082A PCB ICAL
Last Update: 30-Apr-2014 11:09:19 Calib Date: 23-Jan-2014 15:20:22
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\PE-02\20140123-29005.b\PE02_38_217.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK023

First Level Reviewer: michalej Date: 30-Apr-2014 10:39:46

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
$ 3 Tetrachloro-m-xylene							
1	1.445	1.448	-0.003	1413296	0.0300	0.0322	
2	1.784	1.788	-0.004	956566	0.0300	0.0294	
						RPD = 9.10	
6 PCB-1016							
1	2.117	2.121	-0.004	596569	0.5000	0.5411	
1	2.276	2.280	-0.004	1550099	0.5000	0.4948	
1	2.333	2.337	-0.004	717481	0.5000	0.5176	
1	2.592	2.596	-0.004	822002	0.5000	0.5051	
		Average of Peak Amounts =				0.5147	
2	2.215	2.219	-0.004	362532	0.5000	0.4814	
2	2.712	2.716	-0.004	1122119	0.5000	0.4572	
2	2.791	2.796	-0.005	562538	0.5000	0.4711	
2	2.856	2.860	-0.004	357074	0.5000	0.5086	
		Average of Peak Amounts =				0.4796	
						RPD = 7.06	
9 PCB-1260							
1	3.496	3.499	-0.003	2072567	0.5000	0.4867	
1	3.689	3.692	-0.003	862092	0.5000	0.4746	
1	3.823	3.825	-0.002	3095520	0.5000	0.4677	
1	3.959	3.960	-0.001	1363657	0.5000	0.4813	
		Average of Peak Amounts =				0.4776	
2	4.229	4.232	-0.003	1668238	0.5000	0.4226	
2	4.635	4.636	-0.001	248942	0.5000	0.5025	
2	4.681	4.683	-0.002	526494	0.5000	0.4664	
2	4.844	4.845	-0.001	151741	0.5000	0.3866	
		Average of Peak Amounts =				0.4445	
						RPD = 7.17	

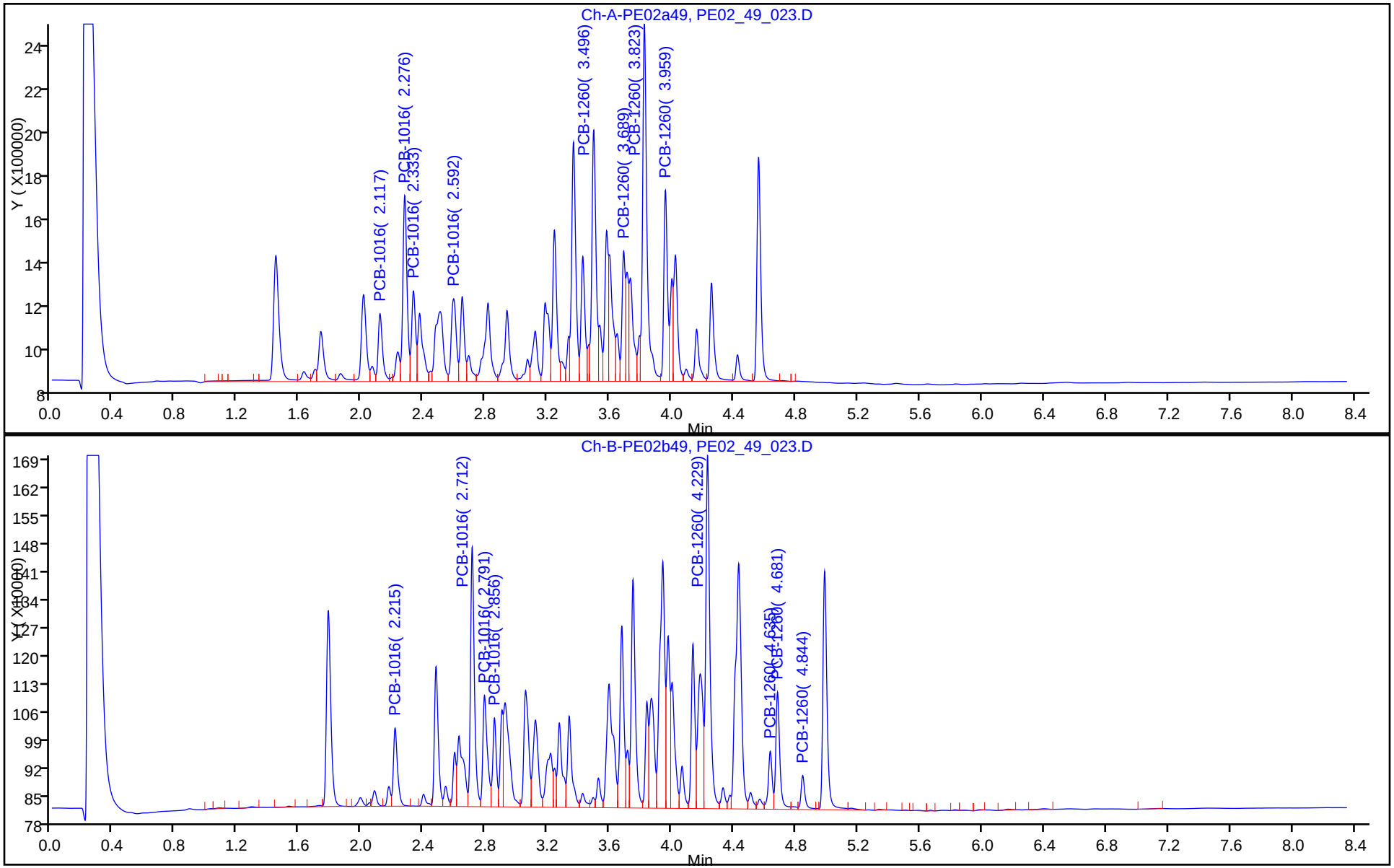
Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
$ 12 DCB Decachlorobiphenyl							
1	4.559	4.560	-0.001	1724797	0.0300	0.0360	
2	4.985	4.985	0.000	1094550	0.0300	0.0356	
						RPD = 1.14	

Report Date: 30-Apr-2014 11:09:20 Chrom Revision: 2.2 14-Apr-2014 13:40:08

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\PE-02\20140430-31599.b\PE02_49_023.D

Injection Date:	30-Apr-2014 10:16:50	Instrument ID:	PE-02	Operator ID:	buftchrom
Lims ID:	ccv			Worklist Smp#:	73
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	PCBS	Limit Group:	GC - 8082A PCB ICAL		



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1

SDG No.:

Lab Sample ID: CCV 480-179084/85 Calibration Date: 04/30/2014 13:10

Instrument ID: PE-02 Calib Start Date: 01/23/2014 10:33

GC Column: ZB-5 ID: 0.53(mm) Calib End Date: 01/23/2014 11:59

Lab File ID: PE02_49_035.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	1102431	1182928		0.537	0.500	7.3	20.0
PCB-1016 Peak 2	Ave	3133067	3072746		0.490	0.500	-1.9	20.0
PCB-1016 Peak 3	Ave	1386036	1421828		0.513	0.500	2.6	20.0
PCB-1016 Peak 4	Ave	1627381	1643720		0.505	0.500	1.0	20.0
PCB-1260 Peak 1	Ave	4258386	4139472		0.486	0.500	-2.8	20.0
PCB-1260 Peak 2	Ave	1816638	1695984		0.467	0.500	-6.6	20.0
PCB-1260 Peak 3	Ave	6617989	6237244		0.471	0.500	-5.8	20.0
PCB-1260 Peak 4	Ave	2833045	2744002		0.484	0.500	-3.1	20.0
Tetrachloro-m-xylene	Ave	43878920	46498167		0.0318	0.0300	6.0	20.0
DCB Decachlorobiphenyl	Lin		59007100		0.0370	0.0300	23.5*	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1

SDG No.:

Lab Sample ID: CCV 480-179084/85 Calibration Date: 04/30/2014 13:10

Instrument ID: PE-02 Calib Start Date: 01/23/2014 10:33

GC Column: ZB-5 ID: 0.53(mm) Calib End Date: 01/23/2014 11:59

Lab File ID: PE02_49_035.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	2.11	2.09	2.15
PCB-1016 Peak 2	2.27	2.25	2.31
PCB-1016 Peak 3	2.33	2.31	2.37
PCB-1016 Peak 4	2.58	2.57	2.63
PCB-1260 Peak 1	3.49	3.47	3.53
PCB-1260 Peak 2	3.68	3.66	3.72
PCB-1260 Peak 3	3.82	3.80	3.86
PCB-1260 Peak 4	3.95	3.93	3.99
Tetrachloro-m-xylene	1.44	1.42	1.48
DCB Decachlorobiphenyl	4.55	4.53	4.59

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\PE-02\20140430-31599.b\PE02_49_035.D
Lims ID: ccv
Client ID:
Sample Type: CCV
Inject. Date: 30-Apr-2014 13:10:26 ALS Bottle#: 0 Worklist Smp#: 85
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name: CCV
Misc. Info.: Study: 480-0031599-085 Channel B: I/F Serial#, 680S10042901
Operator ID: buftchrom Instrument ID: PE-02
Sublist: chrom-PCBS*sub9

Method: \\Bufchrom\ChromData\PE-02\20140430-31599.b\PCBS.m
Limit Group: GC - 8082A PCB ICAL
Last Update: 01-May-2014 07:43:44 Calib Date: 23-Jan-2014 15:20:22
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\PE-02\20140123-29005.b\PE02_38_217.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK048

First Level Reviewer: michalej Date: 01-May-2014 07:43:44

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
$ 3 Tetrachloro-m-xylene							
1	1.439	1.448	-0.009	1394945	0.0300	0.0318	
2	1.777	1.788	-0.011	940928	0.0300	0.0289	
						RPD = 9.44	
6 PCB-1016							
1	2.109	2.121	-0.012	591464	0.5000	0.5365	
1	2.268	2.280	-0.012	1536373	0.5000	0.4904	
1	2.325	2.337	-0.012	710914	0.5000	0.5129	
1	2.584	2.596	-0.012	821860	0.5000	0.5050	
		Average of Peak Amounts =				0.5112	
2	2.207	2.219	-0.012	356289	0.5000	0.4731	
2	2.704	2.716	-0.012	1106609	0.5000	0.4509	
2	2.784	2.796	-0.012	548676	0.5000	0.4595	
2	2.848	2.860	-0.012	353604	0.5000	0.5036	
		Average of Peak Amounts =				0.4718	
						RPD = 8.02	
9 PCB-1260							
1	3.487	3.499	-0.012	2069736	0.5000	0.4860	
1	3.681	3.692	-0.011	847992	0.5000	0.4668	
1	3.815	3.825	-0.010	3118622	0.5000	0.4712	
1	3.951	3.960	-0.009	1372001	0.5000	0.4843	
		Average of Peak Amounts =				0.4771	
2	4.223	4.232	-0.009	1641273	0.5000	0.4158	
2	4.627	4.636	-0.009	227942	0.5000	0.4601	
2	4.675	4.683	-0.008	503302	0.5000	0.4458	
2	4.837	4.845	-0.008	132260	0.5000	0.3370	
		Average of Peak Amounts =				0.4147	
						RPD = 14.00	

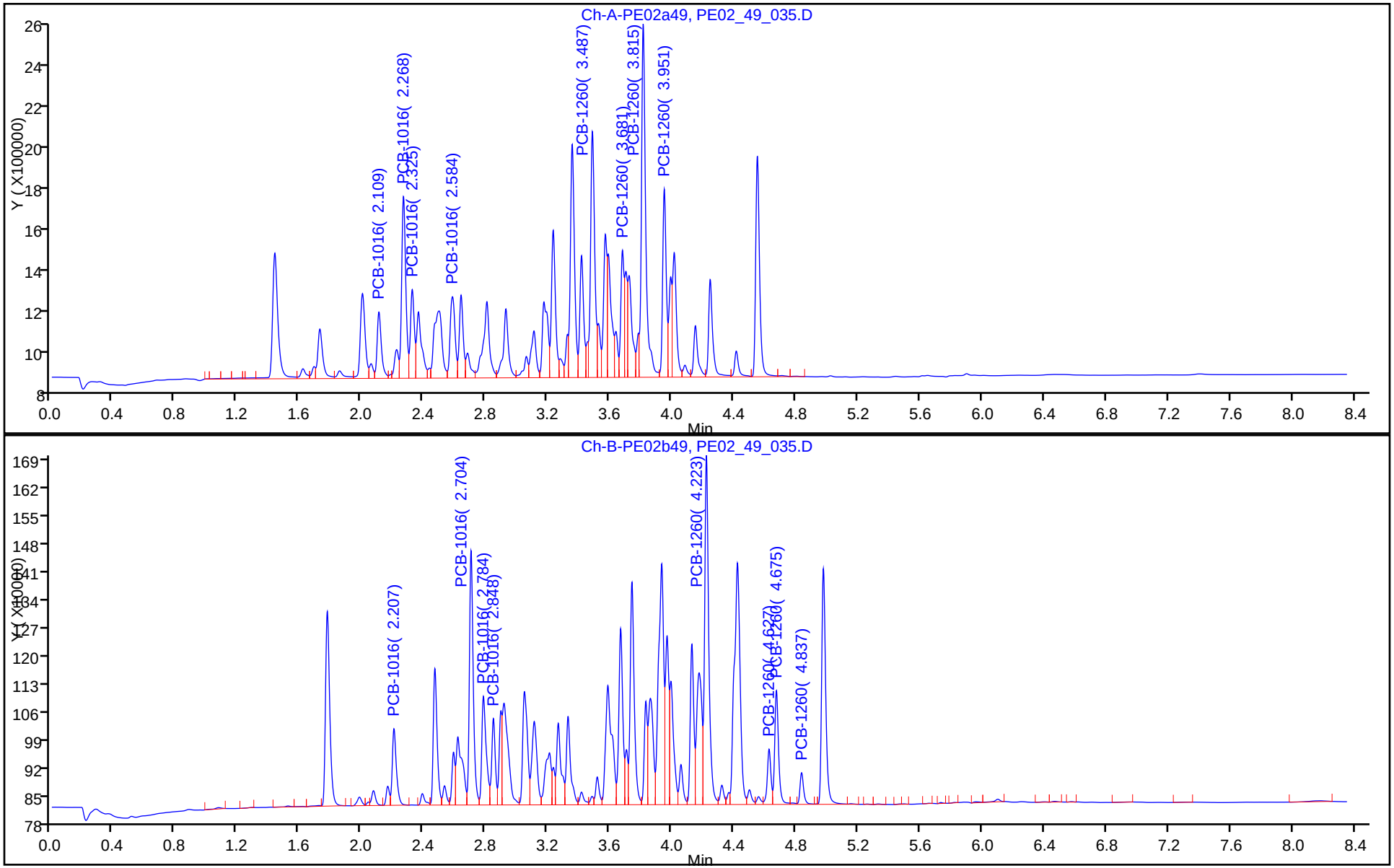
Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
$ 12 DCB Decachlorobiphenyl							
1	4.552	4.560	-0.008	1770213	0.0300	0.0370	
2	4.977	4.985	-0.008	1072160	0.0300	0.0349	
						RPD = 6.10	

Report Date: 01-May-2014 07:43:44 Chrom Revision: 2.2 14-Apr-2014 13:40:08

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\PE-02\20140430-31599.b\PE02_49_035.D

Injection Date:	30-Apr-2014 13:10:26	Instrument ID:	PE-02	Operator ID:	buftchrom
Lims ID:	ccv			Worklist Smp#:	85
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	PCBS	Limit Group:	GC - 8082A PCB ICAL		



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1

SDG No.:

Lab Sample ID: CCV 480-179084/85 Calibration Date: 04/30/2014 13:10

Instrument ID: PE-02 Calib Start Date: 01/23/2014 10:33

GC Column: ZB-35 ID: 0.53(mm) Calib End Date: 01/23/2014 11:59

Lab File ID: PE02_49_035.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	753106	712578		0.473	0.500	-5.4	20.0
PCB-1016 Peak 2	Ave	2454191	2213218		0.451	0.500	-9.8	20.0
PCB-1016 Peak 3	Ave	1194047	1097352		0.460	0.500	-8.1	20.0
PCB-1016 Peak 4	Ave	702105	707208		0.504	0.500	0.7	20.0
PCB-1260 Peak 1	Ave	3947401	3282546		0.416	0.500	-16.8	20.0
PCB-1260 Peak 2	Ave	495414	455884		0.460	0.500	-8.0	20.0
PCB-1260 Peak 3	Ave	1128923	1006604		0.446	0.500	-10.8	20.0
PCB-1260 Peak 4	Ave	392510	264520		0.337	0.500	-32.6*	20.0
Tetrachloro-m-xylene	Ave	32528946	31364267		0.0289	0.0300	-3.6	20.0
DCB Decachlorobiphenyl	Lin		35738667		0.0349	0.0300	16.2	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1

SDG No.:

Lab Sample ID: CCV 480-179084/85 Calibration Date: 04/30/2014 13:10

Instrument ID: PE-02 Calib Start Date: 01/23/2014 10:33

GC Column: ZB-35 ID: 0.53(mm) Calib End Date: 01/23/2014 11:59

Lab File ID: PE02_49_035.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	2.21	2.19	2.25
PCB-1016 Peak 2	2.70	2.69	2.75
PCB-1016 Peak 3	2.78	2.77	2.83
PCB-1016 Peak 4	2.85	2.83	2.89
PCB-1260 Peak 1	4.22	4.20	4.26
PCB-1260 Peak 2	4.63	4.61	4.67
PCB-1260 Peak 3	4.68	4.65	4.71
PCB-1260 Peak 4	4.84	4.82	4.88
Tetrachloro-m-xylene	1.78	1.76	1.82
DCB Decachlorobiphenyl	4.98	4.96	5.02

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\PE-02\20140430-31599.b\PE02_49_035.D
Lims ID: ccv
Client ID:
Sample Type: CCV
Inject. Date: 30-Apr-2014 13:10:26 ALS Bottle#: 0 Worklist Smp#: 85
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name: CCV
Misc. Info.: Study: 480-0031599-085 Channel B: I/F Serial#, 680S10042901
Operator ID: buftchrom Instrument ID: PE-02
Sublist: chrom-PCBS*sub9

Method: \\Bufchrom\ChromData\PE-02\20140430-31599.b\PCBS.m
Limit Group: GC - 8082A PCB ICAL
Last Update: 01-May-2014 07:43:44 Calib Date: 23-Jan-2014 15:20:22
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\PE-02\20140123-29005.b\PE02_38_217.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK048

First Level Reviewer: michalej Date: 01-May-2014 07:43:44

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
$ 3 Tetrachloro-m-xylene							
1	1.439	1.448	-0.009	1394945	0.0300	0.0318	
2	1.777	1.788	-0.011	940928	0.0300	0.0289	
						RPD = 9.44	
6 PCB-1016							
1	2.109	2.121	-0.012	591464	0.5000	0.5365	
1	2.268	2.280	-0.012	1536373	0.5000	0.4904	
1	2.325	2.337	-0.012	710914	0.5000	0.5129	
1	2.584	2.596	-0.012	821860	0.5000	0.5050	
		Average of Peak Amounts =				0.5112	
2	2.207	2.219	-0.012	356289	0.5000	0.4731	
2	2.704	2.716	-0.012	1106609	0.5000	0.4509	
2	2.784	2.796	-0.012	548676	0.5000	0.4595	
2	2.848	2.860	-0.012	353604	0.5000	0.5036	
		Average of Peak Amounts =				0.4718	
						RPD = 8.02	
9 PCB-1260							
1	3.487	3.499	-0.012	2069736	0.5000	0.4860	
1	3.681	3.692	-0.011	847992	0.5000	0.4668	
1	3.815	3.825	-0.010	3118622	0.5000	0.4712	
1	3.951	3.960	-0.009	1372001	0.5000	0.4843	
		Average of Peak Amounts =				0.4771	
2	4.223	4.232	-0.009	1641273	0.5000	0.4158	
2	4.627	4.636	-0.009	227942	0.5000	0.4601	
2	4.675	4.683	-0.008	503302	0.5000	0.4458	
2	4.837	4.845	-0.008	132260	0.5000	0.3370	
		Average of Peak Amounts =				0.4147	
						RPD = 14.00	

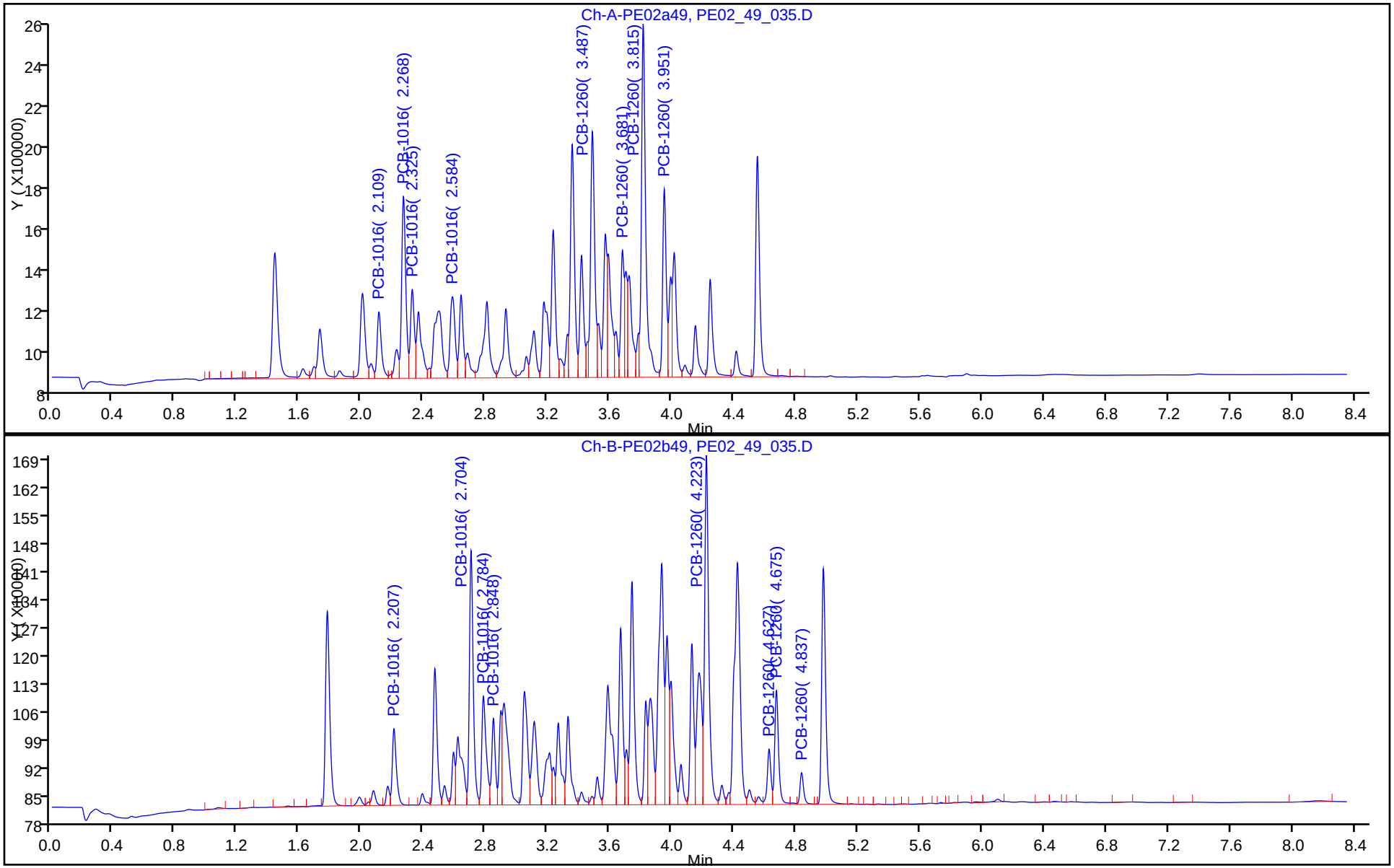
Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
$ 12 DCB Decachlorobiphenyl							
1	4.552	4.560	-0.008	1770213	0.0300	0.0370	
2	4.977	4.985	-0.008	1072160	0.0300	0.0349	
						RPD = 6.10	

Report Date: 01-May-2014 07:43:47 Chrom Revision: 2.2 14-Apr-2014 13:40:08

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\PE-02\20140430-31599.b\PE02_49_035.D

Injection Date:	30-Apr-2014 13:10:26	Instrument ID:	PE-02	Operator ID:	buftchrom
Lims ID:	ccv			Worklist Smp#:	85
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	PCBS	Limit Group:	GC - 8082A PCB ICAL		



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1

SDG No.:

Lab Sample ID: CCV 480-179084/92 Calibration Date: 04/30/2014 15:19

Instrument ID: PE-02 Calib Start Date: 01/23/2014 10:33

GC Column: ZB-5 ID: 0.53(mm) Calib End Date: 01/23/2014 11:59

Lab File ID: PE02_49_044.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	1102431	1138806		0.516	0.500	3.3	20.0
PCB-1016 Peak 2	Ave	3133067	3046132		0.486	0.500	-2.8	20.0
PCB-1016 Peak 3	Ave	1386036	1372292		0.495	0.500	-1.0	20.0
PCB-1016 Peak 4	Ave	1627381	1606560		0.494	0.500	-1.3	20.0
PCB-1260 Peak 1	Ave	4258386	4128028		0.485	0.500	-3.1	20.0
PCB-1260 Peak 2	Ave	1816638	1632682		0.449	0.500	-10.1	20.0
PCB-1260 Peak 3	Ave	6617989	6086920		0.460	0.500	-8.0	20.0
PCB-1260 Peak 4	Ave	2833045	2714002		0.479	0.500	-4.2	20.0
Tetrachloro-m-xylene	Ave	43878920	43179100		0.0295	0.0300	-1.6	20.0
DCB Decachlorobiphenyl	Lin		58532033		0.0367	0.0300	22.4*	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1

SDG No.:

Lab Sample ID: CCV 480-179084/92 Calibration Date: 04/30/2014 15:19

Instrument ID: PE-02 Calib Start Date: 01/23/2014 10:33

GC Column: ZB-5 ID: 0.53(mm) Calib End Date: 01/23/2014 11:59

Lab File ID: PE02_49_044.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	2.11	2.09	2.15
PCB-1016 Peak 2	2.27	2.25	2.31
PCB-1016 Peak 3	2.33	2.31	2.37
PCB-1016 Peak 4	2.59	2.57	2.63
PCB-1260 Peak 1	3.49	3.47	3.53
PCB-1260 Peak 2	3.68	3.66	3.72
PCB-1260 Peak 3	3.81	3.80	3.86
PCB-1260 Peak 4	3.95	3.93	3.99
Tetrachloro-m-xylene	1.44	1.42	1.48
DCB Decachlorobiphenyl	4.55	4.53	4.59

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\PE-02\20140430-31599.b\PE02_49_044.D
Lims ID: ccv
Client ID:
Sample Type: CCV
Inject. Date: 30-Apr-2014 15:19:52 ALS Bottle#: 0 Worklist Smp#: 92
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name: 480-58832-D-1-A
Misc. Info.: Study: 480-0031599-092 Channel B: I/F Serial#, 680S10042901
Operator ID: buftchrom Instrument ID: PE-02
Sublist: chrom-PCBS*sub9

Method: \\Bufchrom\ChromData\PE-02\20140430-31599.b\PCBS.m
Limit Group: GC - 8082A PCB ICAL
Last Update: 01-May-2014 07:48:08 Calib Date: 23-Jan-2014 15:20:22
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\PE-02\20140123-29005.b\PE02_38_217.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK048

First Level Reviewer: michalej Date: 01-May-2014 07:48:08

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
$ 3 Tetrachloro-m-xylene							
1	1.439	1.448	-0.009	1295373	0.0300	0.0295	
2	1.777	1.788	-0.011	932523	0.0300	0.0287	
						RPD = 2.94	
6 PCB-1016							M
1	2.111	2.121	-0.010	569403	0.5000	0.5165	M
1	2.269	2.280	-0.011	1523066	0.5000	0.4861	M
1	2.325	2.337	-0.012	686146	0.5000	0.4950	M
1	2.585	2.596	-0.011	803280	0.5000	0.4936	M
		Average of Peak Amounts =				0.4978	
2	2.208	2.219	-0.011	368811	0.5000	0.4897	M
2	2.705	2.716	-0.011	1111386	0.5000	0.4529	M
2	2.784	2.796	-0.012	559011	0.5000	0.4682	M
2	2.848	2.860	-0.012	355005	0.5000	0.5056	M
		Average of Peak Amounts =				0.4791	
						RPD = 3.83	
9 PCB-1260							M
1	3.488	3.499	-0.011	2064014	0.5000	0.4847	M
1	3.681	3.692	-0.011	816341	0.5000	0.4494	M
1	3.813	3.825	-0.012	3043460	0.5000	0.4599	M
1	3.949	3.960	-0.011	1357001	0.5000	0.4790	M
		Average of Peak Amounts =				0.4682	
2	4.221	4.232	-0.011	1646762	0.5000	0.4172	M
2	4.627	4.636	-0.009	218503	0.5000	0.4411	M
2	4.673	4.683	-0.010	491376	0.5000	0.4353	M
2	4.836	4.845	-0.009	128001	0.5000	0.3261	
		Average of Peak Amounts =				0.4049	
						RPD = 14.51	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
$ 12 DCB Decachlorobiphenyl							
1	4.551	4.560	-0.009	1755961	0.0300	0.0367	
2	4.976	4.985	-0.009	1079033	0.0300	0.0351	
						RPD = 4.56	

QC Flag Legend

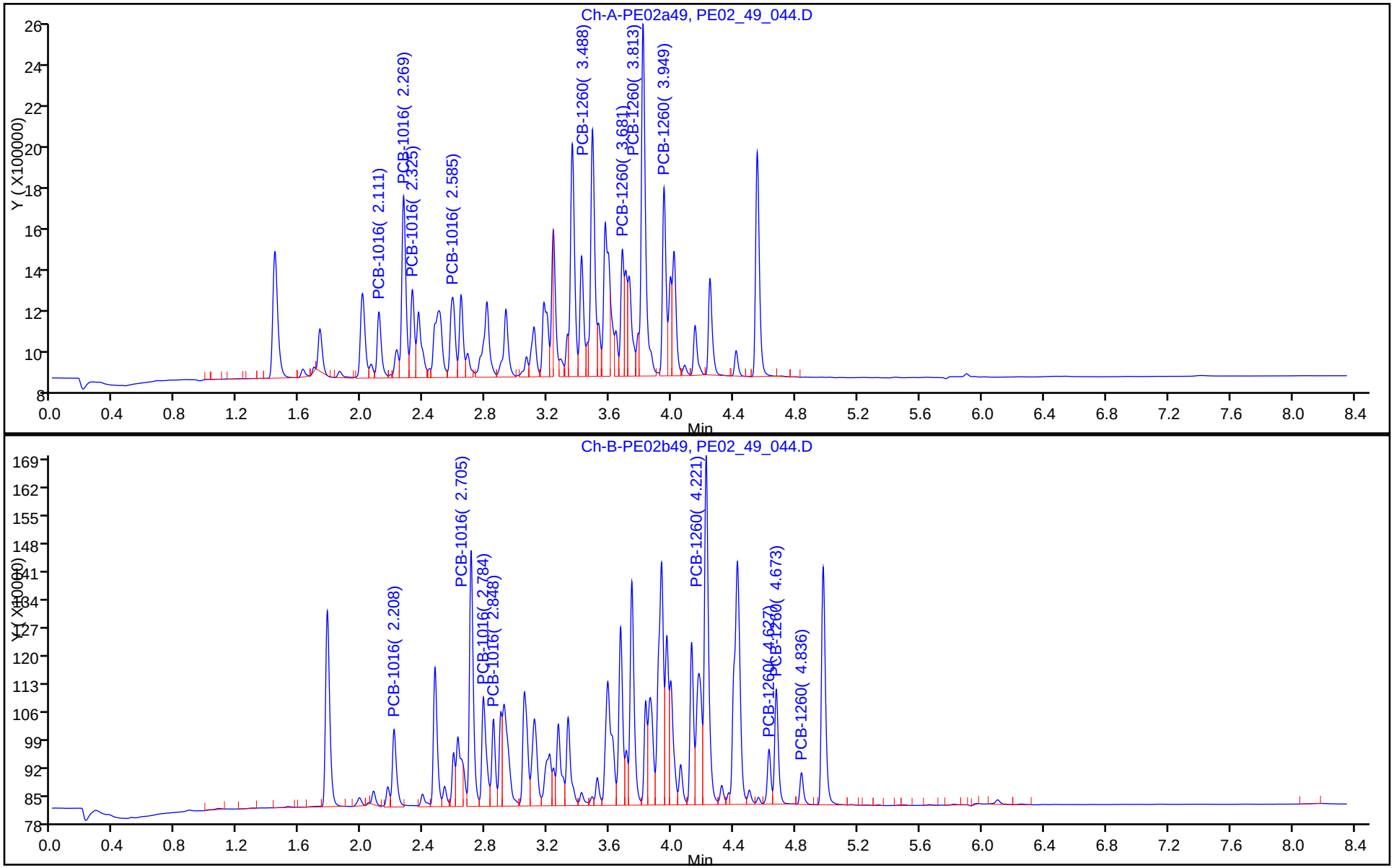
Review Flags
M - Manually Integrated

Report Date: 01-May-2014 07:48:09 Chrom Revision: 2.2 14-Apr-2014 13:40:08

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\PE-02\20140430-31599.b\PE02_49_044.D

Injection Date:	30-Apr-2014 15:19:52	Instrument ID:	PE-02	Operator ID:	buftchrom
Lims ID:	ccv			Worklist Smp#:	92
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	PCBS	Limit Group:	GC - 8082A PCB ICAL		

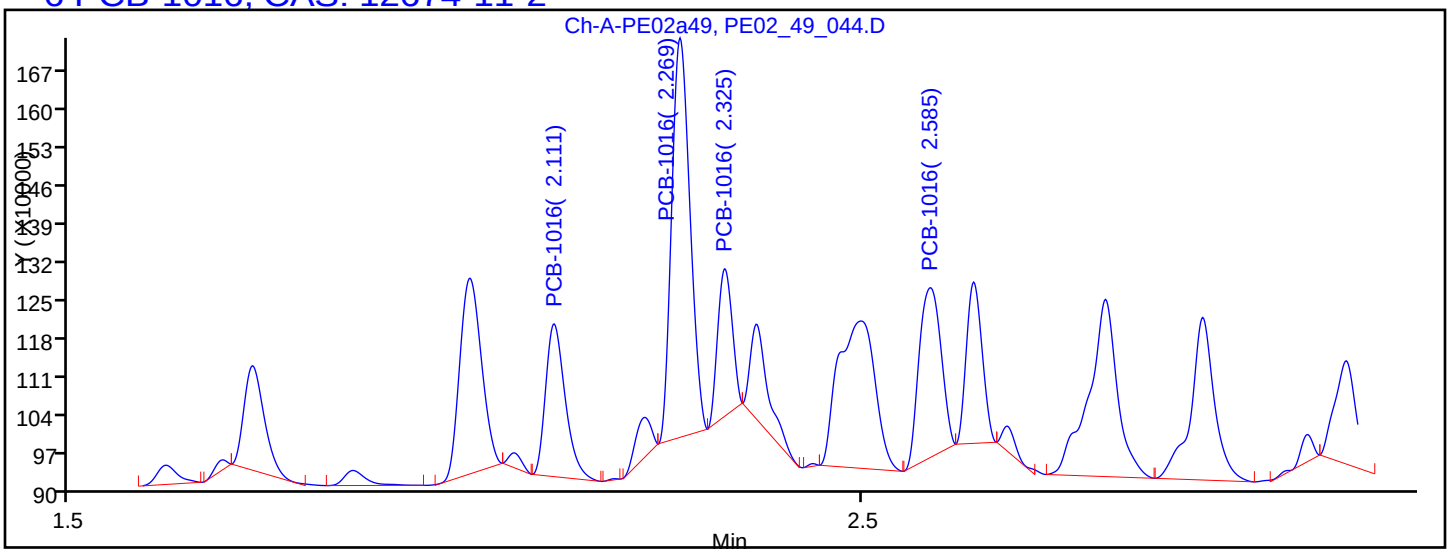


Report Date: 01-May-2014 07:48:09 Chrom Revision: 2.2 14-Apr-2014 13:40:08

TestAmerica Buffalo

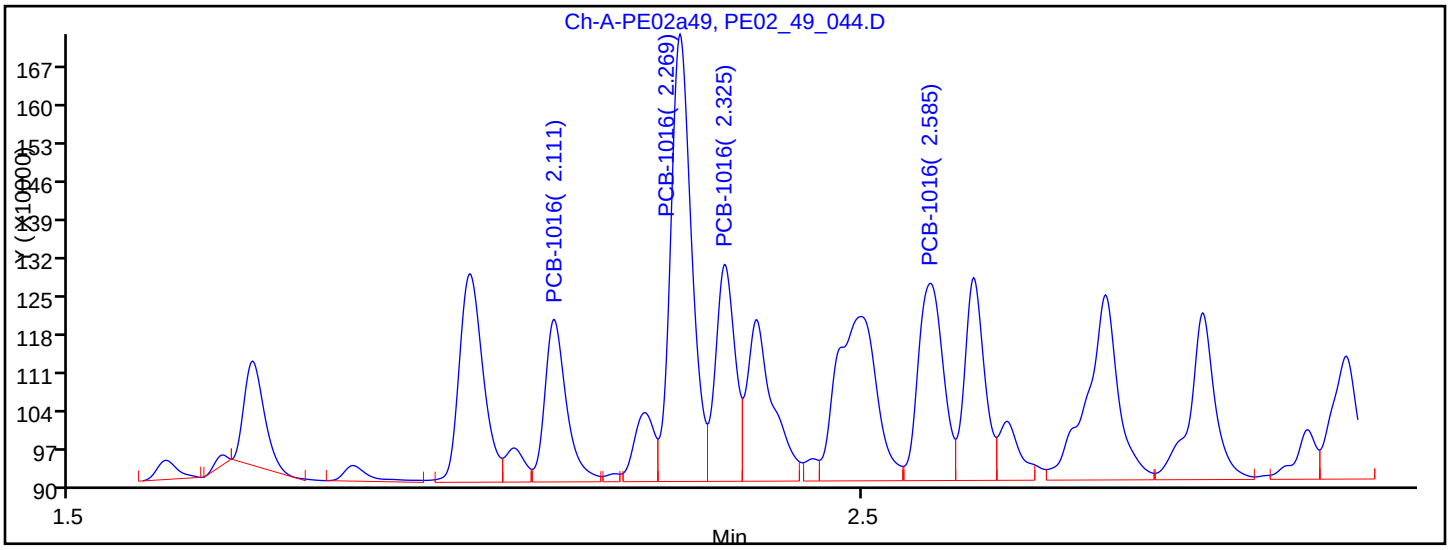
Data File: \\Bufchrom\ChromData\PE-02\20140430-31599.b\PE02_49_044.D
Injection Date: 30-Apr-2014 15:19:52 Instrument ID: PE-02
Lims ID: ccv
Client ID:
Operator ID: buftchrom ALS Bottle#: 0 Worklist Smp#: 92
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBS Limit Group: GC - 8082A PCB ICAL
Column: Detector Ch-A-7A136

6 PCB-1016, CAS: 12674-11-2



Processing Integration Results

RT = 2.111	Response = 484073	M
RT = 2.269	Response = 1179079	M
RT = 2.325	Response = 346196	M
RT = 2.585	Response = 603748	M



Manual Integration Results

RT = 2.111	Response = 569403	M
RT = 2.269	Response = 1523066	M
RT = 2.325	Response = 686146	M
RT = 2.585	Response = 803280	M

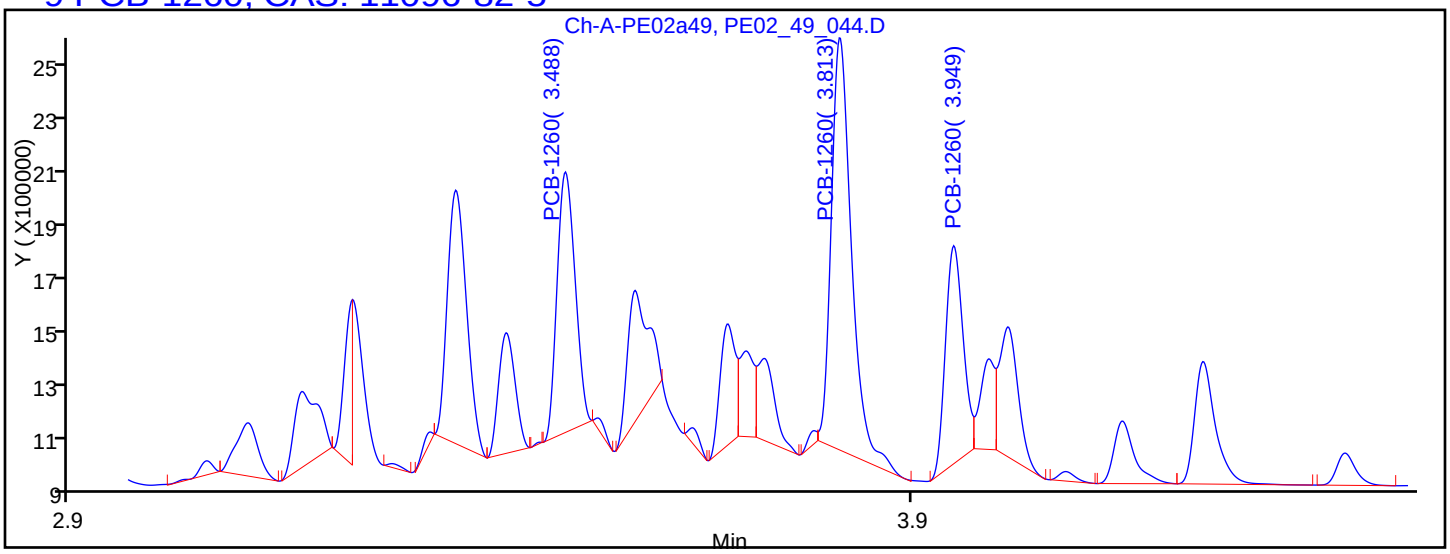
Reviewer: michalej, 01-May-2014 06:47:25
Audit Action: Assigned New Baseline
Audit Reason: Peak Tail

Report Date: 01-May-2014 07:48:09 Chrom Revision: 2.2 14-Apr-2014 13:40:08

TestAmerica Buffalo

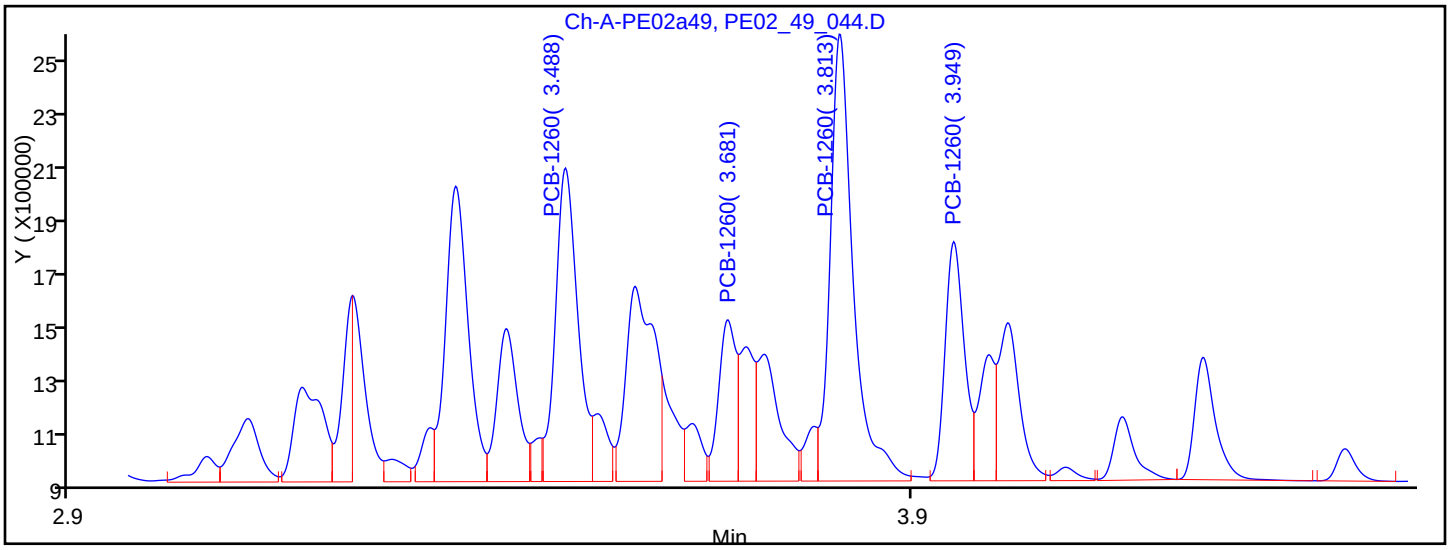
Data File: \\Bufchrom\ChromData\PE-02\20140430-31599.b\PE02_49_044.D
Injection Date: 30-Apr-2014 15:19:52 Instrument ID: PE-02
Lims ID: ccv
Client ID:
Operator ID: buftchrom ALS Bottle#: 0 Worklist Smp#: 92
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBS Limit Group: GC - 8082A PCB ICAL
Column: Detector Ch-A-7A136

9 PCB-1260, CAS: 11096-82-5



Processing Integration Results

RT = 3.488	Response = 1382207	M
RT = 3.703	Response = 362932	M
RT = 3.813	Response = 2468011	M
RT = 3.949	Response = 1134093	M



Manual Integration Results

RT = 3.488	Response = 2064014	M
RT = 3.681	Response = 816341	M
RT = 3.813	Response = 3043460	M
RT = 3.949	Response = 1357001	M

Reviewer: michalej, 01-May-2014 06:47:25
Audit Action: Assigned New Baseline
Audit Reason: Peak Tail

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1

SDG No.:

Lab Sample ID: CCV 480-179084/92 Calibration Date: 04/30/2014 15:19

Instrument ID: PE-02 Calib Start Date: 01/23/2014 10:33

GC Column: ZB-35 ID: 0.53(mm) Calib End Date: 01/23/2014 11:59

Lab File ID: PE02_49_044.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	753106	737622		0.490	0.500	-2.1	20.0
PCB-1016 Peak 2	Ave	2454191	2222772		0.453	0.500	-9.4	20.0
PCB-1016 Peak 3	Ave	1194047	1118022		0.468	0.500	-6.4	20.0
PCB-1016 Peak 4	Ave	702105	710010		0.506	0.500	1.1	20.0
PCB-1260 Peak 1	Ave	3947401	3293524		0.417	0.500	-16.6	20.0
PCB-1260 Peak 2	Ave	495414	437006		0.441	0.500	-11.8	20.0
PCB-1260 Peak 3	Ave	1128923	982752		0.435	0.500	-12.9	20.0
PCB-1260 Peak 4	Ave	392510	256002		0.326	0.500	-34.8*	20.0
Tetrachloro-m-xylene	Ave	32528946	31084100		0.0287	0.0300	-4.4	20.0
DCB Decachlorobiphenyl	Lin		35967767		0.0351	0.0300	17.0	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1

SDG No.:

Lab Sample ID: CCV 480-179084/92 Calibration Date: 04/30/2014 15:19

Instrument ID: PE-02 Calib Start Date: 01/23/2014 10:33

GC Column: ZB-35 ID: 0.53(mm) Calib End Date: 01/23/2014 11:59

Lab File ID: PE02_49_044.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	2.21	2.19	2.25
PCB-1016 Peak 2	2.71	2.69	2.75
PCB-1016 Peak 3	2.78	2.77	2.83
PCB-1016 Peak 4	2.85	2.83	2.89
PCB-1260 Peak 1	4.22	4.20	4.26
PCB-1260 Peak 2	4.63	4.61	4.67
PCB-1260 Peak 3	4.67	4.65	4.71
PCB-1260 Peak 4	4.84	4.82	4.88
Tetrachloro-m-xylene	1.78	1.76	1.82
DCB Decachlorobiphenyl	4.98	4.96	5.02

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\PE-02\20140430-31599.b\PE02_49_044.D
Lims ID: ccv
Client ID:
Sample Type: CCV
Inject. Date: 30-Apr-2014 15:19:52 ALS Bottle#: 0 Worklist Smp#: 92
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name: 480-58832-D-1-A
Misc. Info.: Study: 480-0031599-092 Channel B: I/F Serial#, 680S10042901
Operator ID: buftchrom Instrument ID: PE-02
Sublist: chrom-PCBS*sub9

Method: \\Bufchrom\ChromData\PE-02\20140430-31599.b\PCBS.m
Limit Group: GC - 8082A PCB ICAL
Last Update: 01-May-2014 07:48:08 Calib Date: 23-Jan-2014 15:20:22
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\PE-02\20140123-29005.b\PE02_38_217.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK048

First Level Reviewer: michalej Date: 01-May-2014 07:48:08

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
$ 3 Tetrachloro-m-xylene							
1	1.439	1.448	-0.009	1295373	0.0300	0.0295	
2	1.777	1.788	-0.011	932523	0.0300	0.0287	
						RPD = 2.94	
6 PCB-1016							M
1	2.111	2.121	-0.010	569403	0.5000	0.5165	M
1	2.269	2.280	-0.011	1523066	0.5000	0.4861	M
1	2.325	2.337	-0.012	686146	0.5000	0.4950	M
1	2.585	2.596	-0.011	803280	0.5000	0.4936	M
		Average of Peak Amounts =				0.4978	
2	2.208	2.219	-0.011	368811	0.5000	0.4897	M
2	2.705	2.716	-0.011	1111386	0.5000	0.4529	M
2	2.784	2.796	-0.012	559011	0.5000	0.4682	M
2	2.848	2.860	-0.012	355005	0.5000	0.5056	M
		Average of Peak Amounts =				0.4791	
						RPD = 3.83	
9 PCB-1260							M
1	3.488	3.499	-0.011	2064014	0.5000	0.4847	M
1	3.681	3.692	-0.011	816341	0.5000	0.4494	M
1	3.813	3.825	-0.012	3043460	0.5000	0.4599	M
1	3.949	3.960	-0.011	1357001	0.5000	0.4790	M
		Average of Peak Amounts =				0.4682	
2	4.221	4.232	-0.011	1646762	0.5000	0.4172	M
2	4.627	4.636	-0.009	218503	0.5000	0.4411	M
2	4.673	4.683	-0.010	491376	0.5000	0.4353	M
2	4.836	4.845	-0.009	128001	0.5000	0.3261	
		Average of Peak Amounts =				0.4049	
						RPD = 14.51	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
$ 12 DCB Decachlorobiphenyl							
1	4.551	4.560	-0.009	1755961	0.0300	0.0367	
2	4.976	4.985	-0.009	1079033	0.0300	0.0351	
						RPD = 4.56	

QC Flag Legend

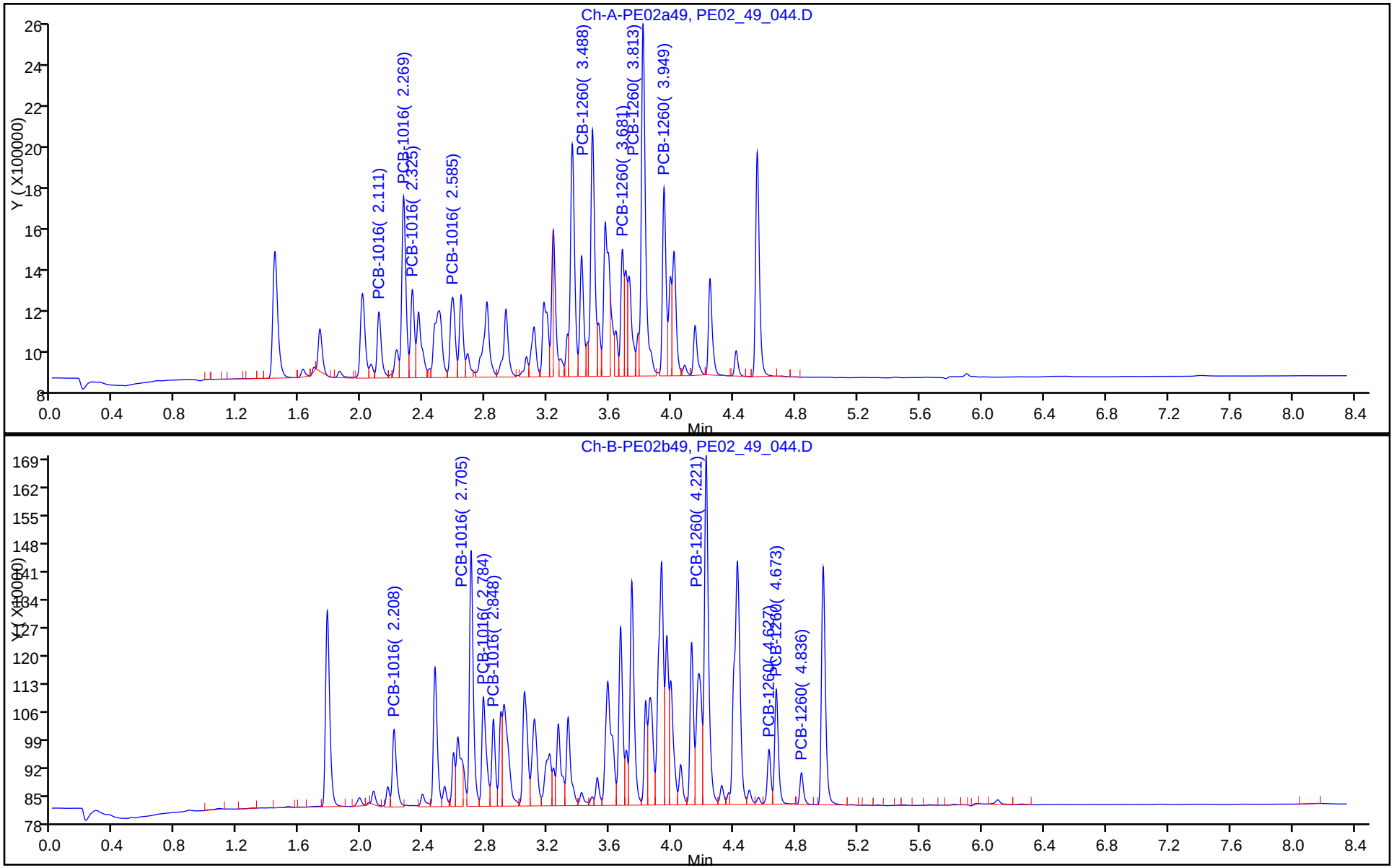
Review Flags
M - Manually Integrated

Report Date: 01-May-2014 07:48:09 Chrom Revision: 2.2 14-Apr-2014 13:40:08

TestAmerica Buffalo

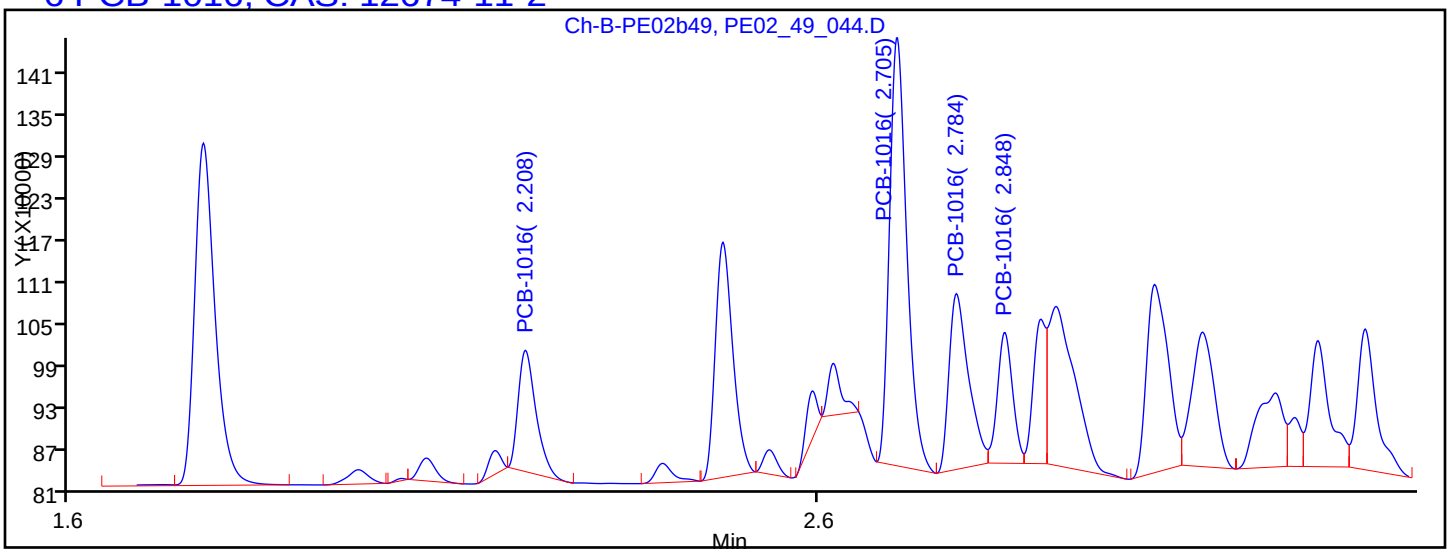
Data File: \\Bufchrom\ChromData\PE-02\20140430-31599.b\PE02_49_044.D

Injection Date:	30-Apr-2014 15:19:52	Instrument ID:	PE-02	Operator ID:	buftchrom
Lims ID:	ccv			Worklist Smp#:	92
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	PCBS	Limit Group:	GC - 8082A PCB ICAL		



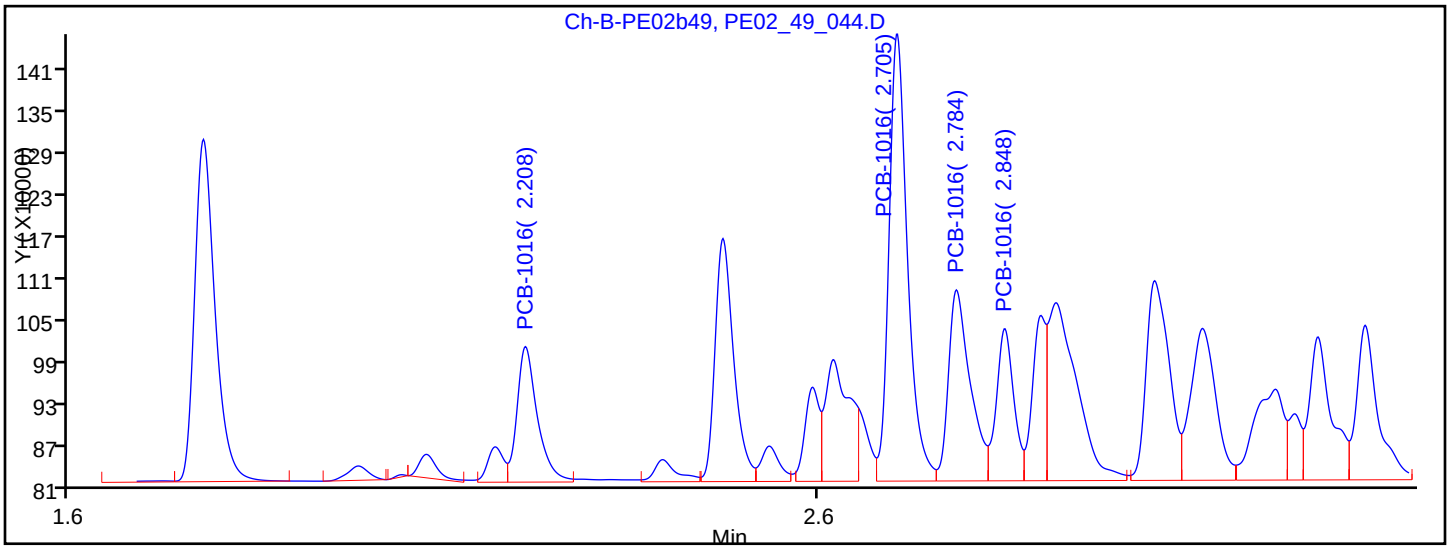
Data File: \\Bufchrom\ChromData\PE-02\20140430-31599.b\PE02_49_044.D
Injection Date: 30-Apr-2014 15:19:52 Instrument ID: PE-02
Lims ID: ccv
Client ID:
Operator ID: buftchrom ALS Bottle#: 0 Worklist Smp#: 92
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBS Limit Group: GC - 8082A PCB ICAL
Column: Detector Ch-B-7b136

6 PCB-1016, CAS: 12674-11-2



Processing Integration Results

RT = 2.208	Response = 289437	M
RT = 2.705	Response = 992881	M
RT = 2.784	Response = 460893	M
RT = 2.848	Response = 266904	M



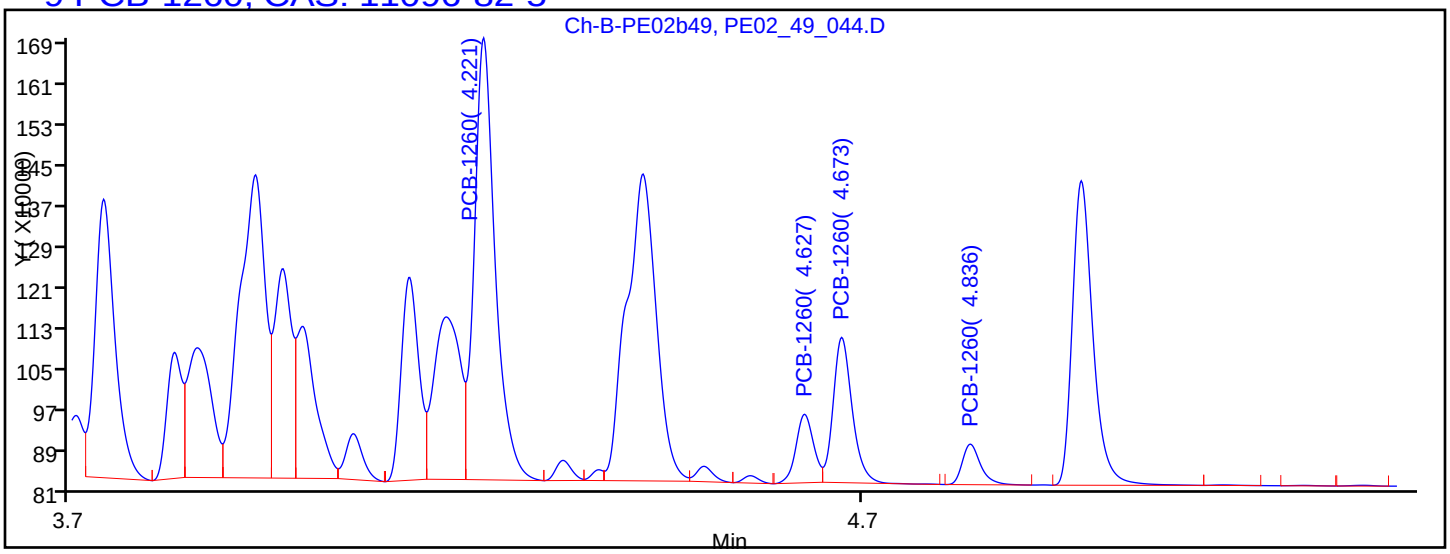
Manual Integration Results

RT = 2.208	Response = 368811	M
RT = 2.705	Response = 1111386	M
RT = 2.784	Response = 559011	M
RT = 2.848	Response = 355005	M

Reviewer: michalej, 01-May-2014 06:47:25
Audit Action: Assigned New Baseline
Audit Reason: Peak Tail

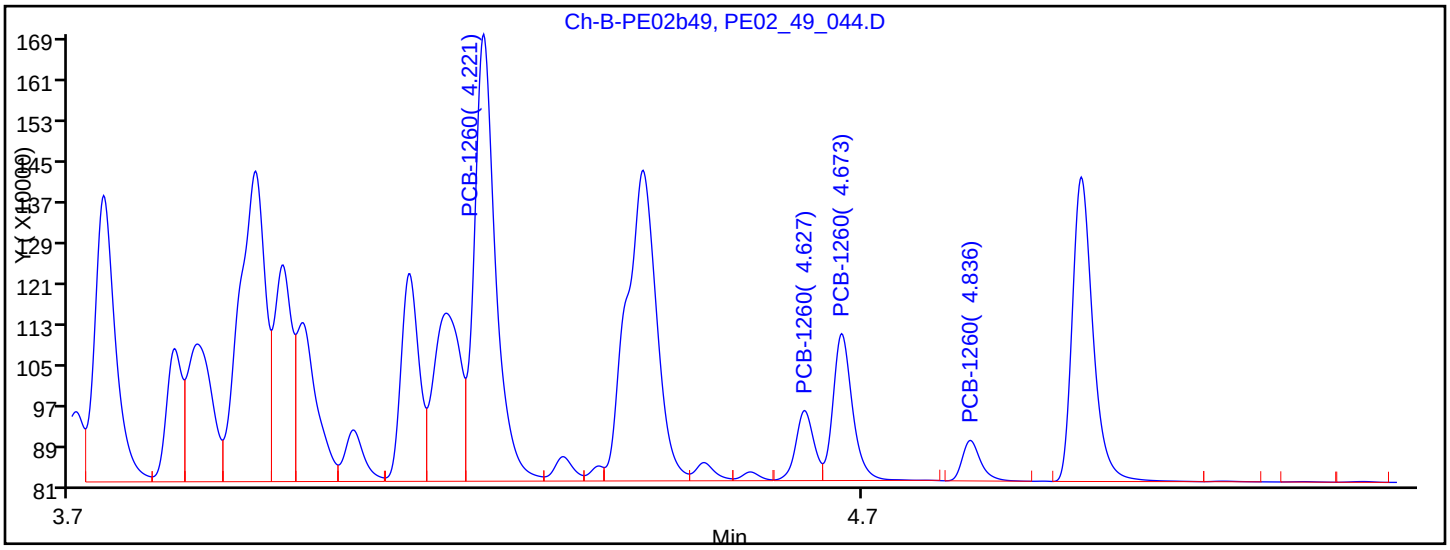
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Injection Date: 30-Apr-2014 15:19:52 Instrument ID: PE-02
Lims ID: ccv
Client ID:
Operator ID: buftchrom ALS Bottle#: 0 Worklist Smp#: 92
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBS Limit Group: GC - 8082A PCB ICAL
Column: Detector Ch-B-7b136

9 PCB-1260, CAS: 11096-82-5



Processing Integration Results

RT = 4.221	Response = 1590596	M
RT = 4.627	Response = 208484	M
RT = 4.673	Response = 477199	M
RT = 4.836	Response = 128001	



Manual Integration Results

RT = 4.221	Response = 1646762	M
RT = 4.627	Response = 218503	M
RT = 4.673	Response = 491376	M
RT = 4.836	Response = 128001	

Reviewer: michalej, 01-May-2014 06:47:25
Audit Action: Assigned New Baseline
Audit Reason: Peak Tail

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-58807-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 480-178927/1-A

Matrix: Solid | Lab File ID: PE02_49_025.D

Analysis Method: 8082A | Date Collected:

Extraction Method: 3550C | Date Extracted: 04/29/2014 12:37

Sample wt/vol: +2.16(g) | Date Analyzed: 04/30/2014 10:45

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-5 ID: 0.53(mm)

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

Analysis Batch No.: 179084 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.23	0.045
11104-28-2	PCB-1221	ND		0.23	0.045
11141-16-5	PCB-1232	ND		0.23	0.045
53469-21-9	PCB-1242	ND		0.23	0.045
12672-29-6	PCB-1248	ND		0.23	0.045
11097-69-1	PCB-1254	ND		0.23	0.11
11096-82-5	PCB-1260	ND		0.23	0.11

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	115		46-175
2051-24-3	DCB Decachlorobiphenyl	133		47-176

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\PE-02\20140430-31599.b\PE02_49_025.D
Lims ID: MB 480-178927/1-A
Client ID:
Sample Type: MB
Inject. Date: 30-Apr-2014 10:45:47 ALS Bottle#: 0 Worklist Smp#: 75
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name: MB 480-178927/1-A
Misc. Info.: Study: 480-0031599-075 Channel B: I/F Serial#, 680S10042901
Operator ID: buftchrom Instrument ID: PE-02

Method: \\Bufchrom\ChromData\PE-02\20140430-31599.b\PCBS.m
Limit Group: GC - 8082A PCB ICAL
Last Update: 01-May-2014 07:32:27 Calib Date: 23-Jan-2014 15:20:22
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\PE-02\20140123-29005.b\PE02_38_217.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK048

First Level Reviewer: michalej Date: 01-May-2014 07:32:27

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	1.443	1.448	-0.005	1009284	0.0200	0.0230	M
2	1.780	1.788	-0.008	699219	0.0200	0.0215	M
						RPD = 6.77	
$ 12 DCB Decachlorobiphenyl							
1	4.552	4.560	-0.008	1295079	0.0200	0.0266	
2	4.979	4.985	-0.006	846489	0.0200	0.0269	
						RPD = 1.16	

QC Flag Legend

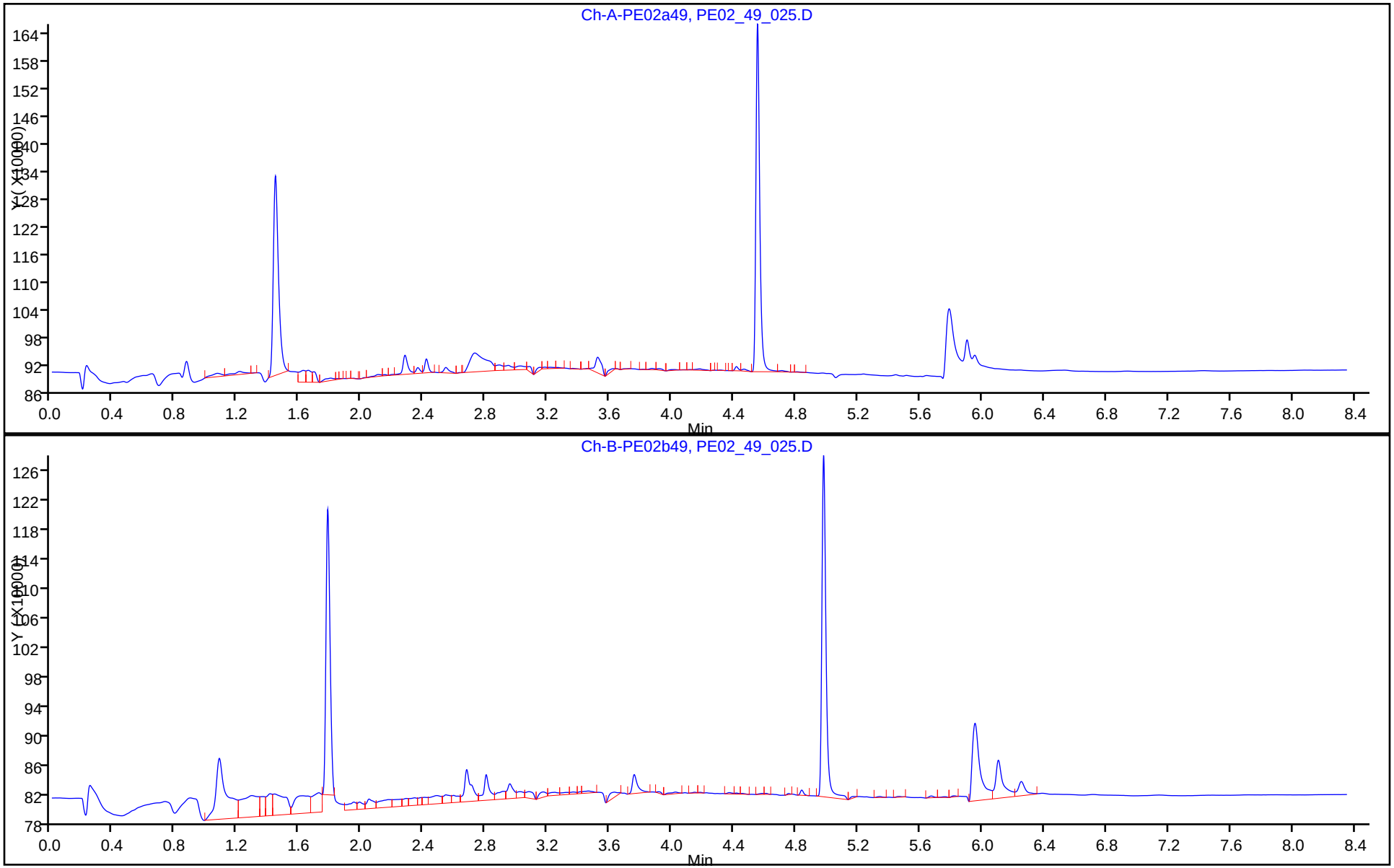
Review Flags
M - Manually Integrated

Report Date: 01-May-2014 07:32:27 Chrom Revision: 2.2 14-Apr-2014 13:40:08

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\PE-02\20140430-31599.b\PE02_49_025.D

Injection Date:	30-Apr-2014 10:45:47	Instrument ID:	PE-02	Operator ID:	buftchrom
Lims ID:	MB 480-178927/1-A			Worklist Smp#:	75
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	PCBS	Limit Group:	GC - 8082A PCB ICAL		



Manual Integration/User Assign Peak Report

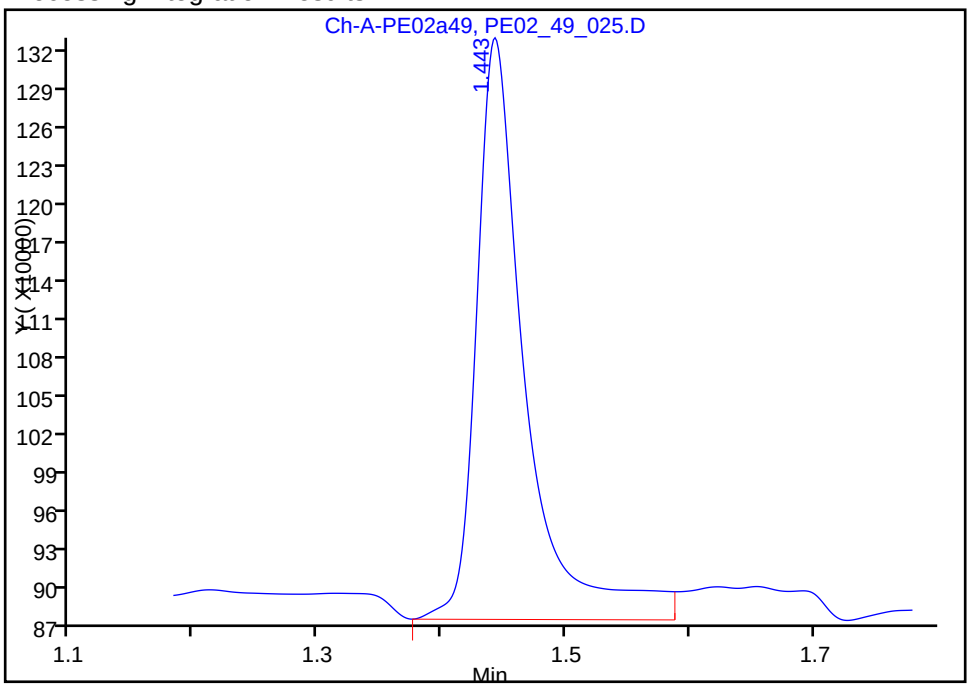
TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\PE-02\20140430-31599.b\PE02_49_025.D
Injection Date: 30-Apr-2014 10:45:47 Instrument ID: PE-02
Lims ID: MB 480-178927/1-A
Client ID:
Operator ID: buftchrom ALS Bottle#: 0 Worklist Smp#: 75
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBS Limit Group: GC - 8082A PCB ICAL
Column: Detector Ch-A-7A136

$ 3 Tetrachloro-m-xylene, CAS: 877-09-8

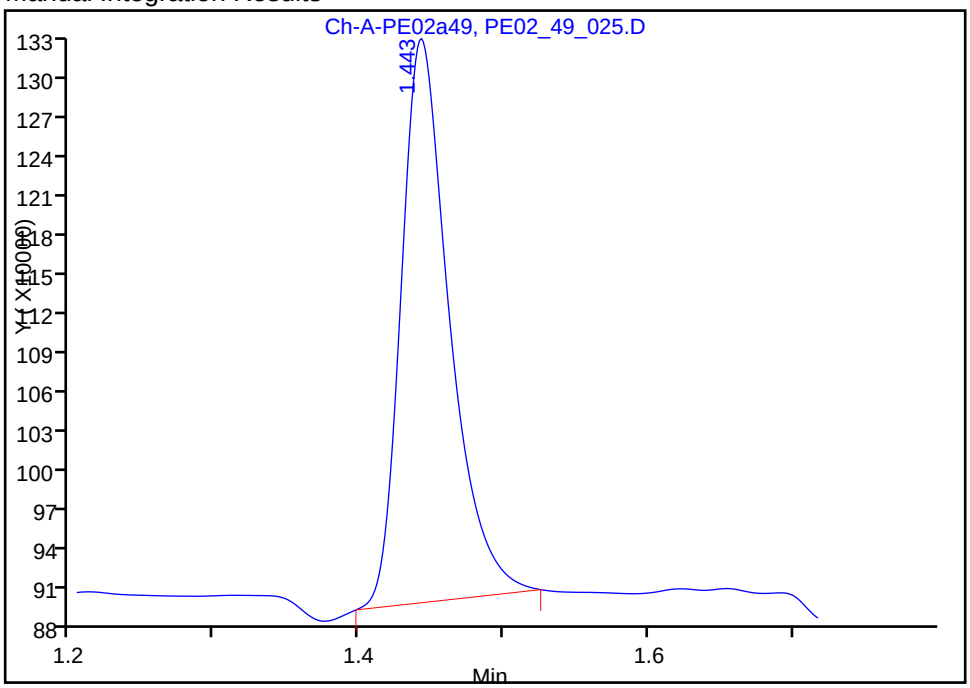
Processing Integration Results

RT: 1.44
Response: 1227338
Amount: 0.027971



Manual Integration Results

RT: 1.44
Response: 1009284
Amount: 0.023002



Reviewer: michalej, 01-May-2014 07:32:27
Audit Action: Manually Integrated
Audit Reason: Split Peak

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 480-178927/1-A

Matrix: Solid Lab File ID: PE02_49_025.D

Analysis Method: 8082A Date Collected:

Extraction Method: 3550C Date Extracted: 04/29/2014 12:37

Sample wt/vol: +2.16(g) Date Analyzed: 04/30/2014 10:45

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.: 179084 Units: mg/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	107		46-175
2051-24-3	DCB Decachlorobiphenyl	135		47-176

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\PE-02\20140430-31599.b\PE02_49_025.D
Lims ID: MB 480-178927/1-A
Client ID:
Sample Type: MB
Inject. Date: 30-Apr-2014 10:45:47 ALS Bottle#: 0 Worklist Smp#: 75
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name: MB 480-178927/1-A
Misc. Info.: Study: 480-0031599-075 Channel B: I/F Serial#, 680S10042901
Operator ID: buftchrom Instrument ID: PE-02

Method: \\Bufchrom\ChromData\PE-02\20140430-31599.b\PCBS.m
Limit Group: GC - 8082A PCB ICAL
Last Update: 01-May-2014 07:32:27 Calib Date: 23-Jan-2014 15:20:22
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\PE-02\20140123-29005.b\PE02_38_217.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK048

First Level Reviewer: michalej Date: 01-May-2014 07:32:27

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	1.443	1.448	-0.005	1009284	0.0200	0.0230	M
2	1.780	1.788	-0.008	699219	0.0200	0.0215	M
						RPD = 6.77	
$ 12 DCB Decachlorobiphenyl							
1	4.552	4.560	-0.008	1295079	0.0200	0.0266	
2	4.979	4.985	-0.006	846489	0.0200	0.0269	
						RPD = 1.16	

QC Flag Legend

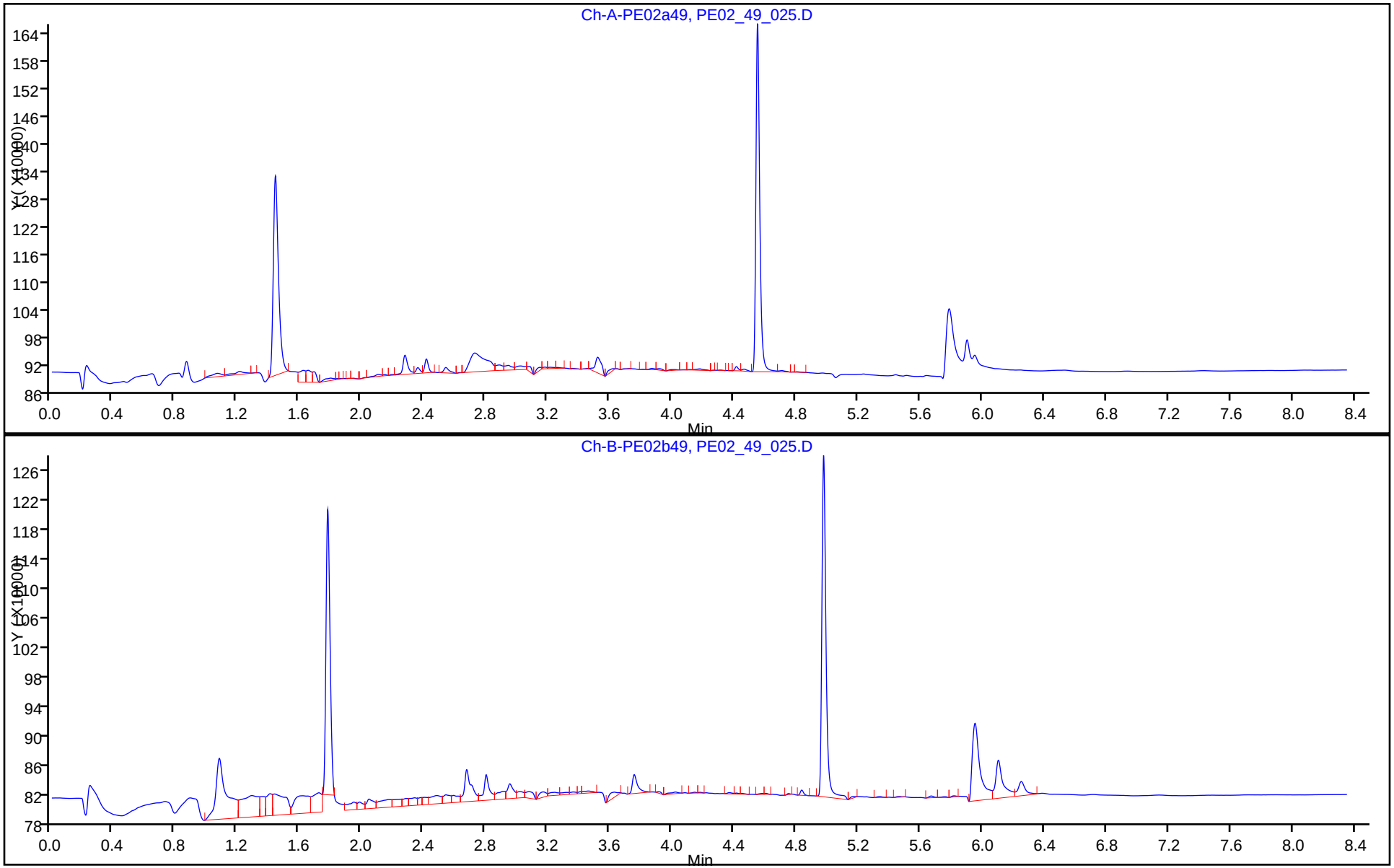
Review Flags
M - Manually Integrated

Report Date: 01-May-2014 07:32:28 Chrom Revision: 2.2 14-Apr-2014 13:40:08

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\PE-02\20140430-31599.b\PE02_49_025.D

Injection Date:	30-Apr-2014 10:45:47	Instrument ID:	PE-02	Operator ID:	buftchrom
Lims ID:	MB 480-178927/1-A			Worklist Smp#:	75
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	PCBS	Limit Group:	GC - 8082A PCB ICAL		



Manual Integration/User Assign Peak Report

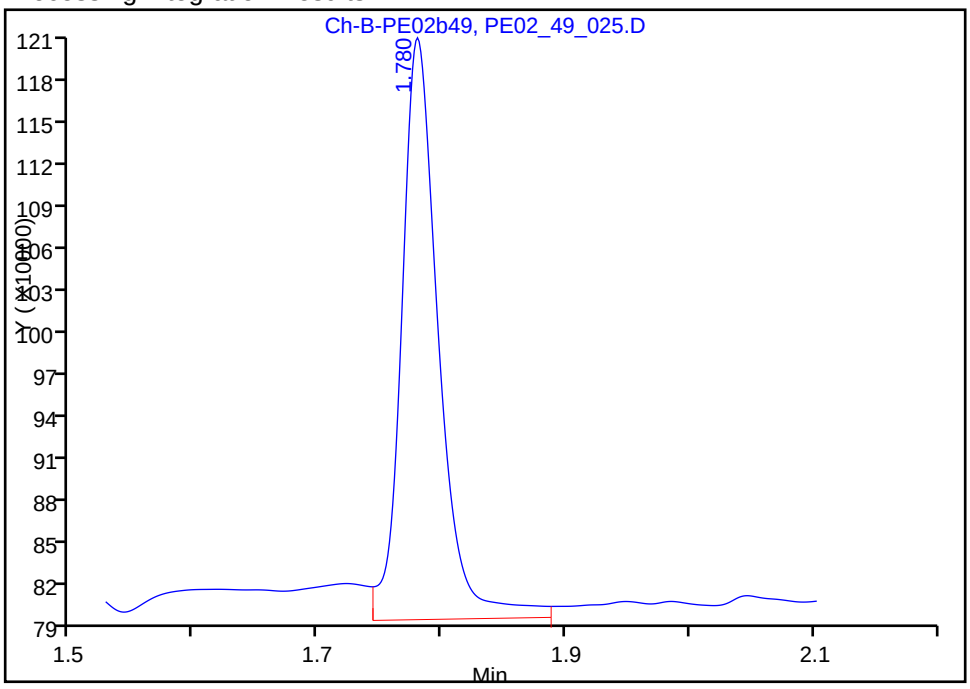
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\PE-02\20140430-31599.b\PE02_49_025.D				
Injection Date:	30-Apr-2014 10:45:47	Instrument ID:	PE-02		
Lims ID:	MB 480-178927/1-A				
Client ID:					
Operator ID:	buftchrom	ALS Bottle#:	0	Worklist Smp#:	75
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	PCBS	Limit Group:	GC - 8082A PCB ICAL		
Column:		Detector	Ch-B-7b136		

$ 3 Tetrachloro-m-xylene, CAS: 877-09-8

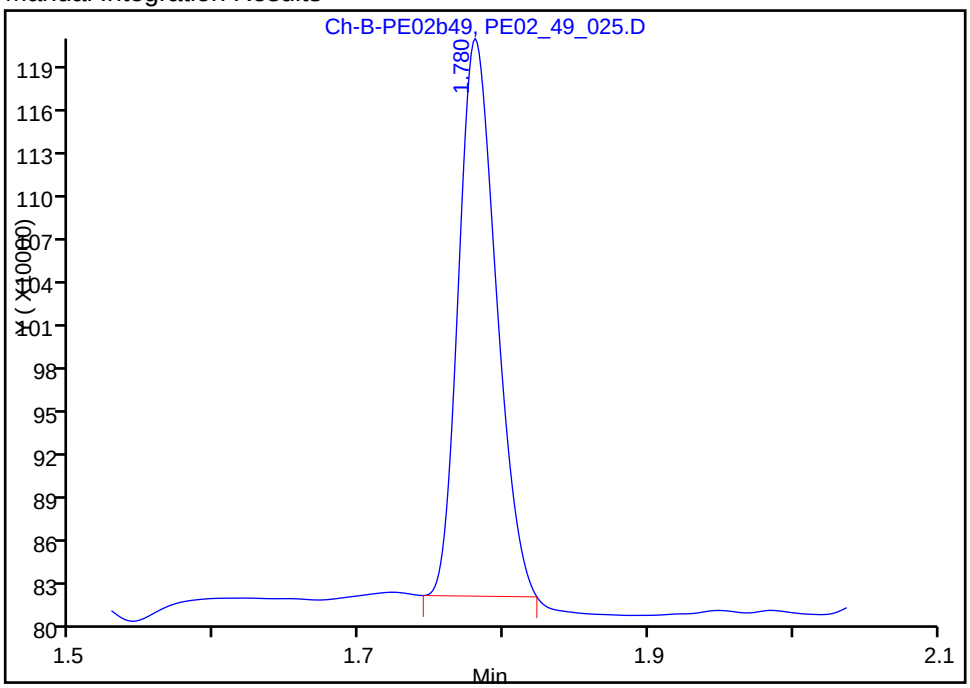
Processing Integration Results

RT: 1.78
Response: 846540
Amount: 0.026024



Manual Integration Results

RT: 1.78
Response: 699219
Amount: 0.021495



Reviewer: michalej, 01-May-2014 07:32:27
Audit Action: Manually Integrated
Audit Reason: Split Peak

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-58807-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 480-178927/2-A

Matrix: Solid | Lab File ID: PE02_49_026.D

Analysis Method: 8082A | Date Collected:

Extraction Method: 3550C | Date Extracted: 04/29/2014 12:37

Sample wt/vol: +2.68(g) | Date Analyzed: 04/30/2014 11:00

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-5 ID: 0.53(mm)

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

Analysis Batch No.: 179084 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	2.32		0.19	0.036
11096-82-5	PCB-1260	2.28		0.19	0.088

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	141		46-175
2051-24-3	DCB Decachlorobiphenyl	148		47-176

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\PE-02\20140430-31599.b\PE02_49_026.D
Lims ID: LCS 480-178927/2-A
Client ID:
Sample Type: LCS
Inject. Date: 30-Apr-2014 11:00:18 ALS Bottle#: 0 Worklist Smp#: 76
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name: LCS 480-178927/2-A
Misc. Info.: Study: 480-0031599-076 Channel B: I/F Serial#, 680S10042901
Operator ID: buftchrom Instrument ID: PE-02

Method: \\Bufchrom\ChromData\PE-02\20140430-31599.b\PCBS.m
Limit Group: GC - 8082A PCB ICAL
Last Update: 01-May-2014 07:32:58 Calib Date: 23-Jan-2014 15:20:22
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\PE-02\20140123-29005.b\PE02_38_217.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK048

First Level Reviewer: michalej Date: 01-May-2014 07:32:58

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	1.448	1.448	0.000	1233881	0.0200	0.0281	M
2	1.785	1.788	-0.003	853639	0.0200	0.0262	
						RPD = 6.91	
6 PCB-1016							M
1	2.117	2.121	-0.004	707213	0.5000	0.6415	M
1	2.276	2.280	-0.004	1907150	0.5000	0.6087	M
1	2.332	2.337	-0.005	859313	0.5000	0.6200	M
1	2.591	2.596	-0.005	1006153	0.5000	0.6183	M
		Average of Peak Amounts =				0.6221	
2	2.215	2.219	-0.004	427385	0.5000	0.5675	M
2	2.711	2.716	-0.005	1403667	0.5000	0.5719	M
2	2.791	2.796	-0.005	717741	0.5000	0.6011	M
2	2.855	2.860	-0.005	438836	0.5000	0.6250	M
		Average of Peak Amounts =				0.5914	
						RPD = 5.06	
9 PCB-1260							M
1	3.493	3.499	-0.006	2239443	0.5000	0.5259	M
1	3.687	3.692	-0.005	1209750	0.5000	0.6659	M
1	3.821	3.825	-0.004	4267510	0.5000	0.6448	M
1	3.957	3.960	-0.003	1712972	0.5000	0.6046	M
		Average of Peak Amounts =				0.6103	
2	4.228	4.232	-0.004	2230902	0.5000	0.5652	M
2	4.633	4.636	-0.003	346100	0.5000	0.6986	M
2	4.680	4.683	-0.003	773805	0.5000	0.6854	M
2	4.843	4.845	-0.002	220295	0.5000	0.5612	M
		Average of Peak Amounts =				0.6276	
						RPD = 2.79	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
$ 12 DCB Decachlorobiphenyl							M
1	4.557	4.560	-0.003	1430177	0.0200	0.0296	M
2	4.983	4.985	-0.002	898213	0.0200	0.0287	M
						RPD = 2.87	

QC Flag Legend

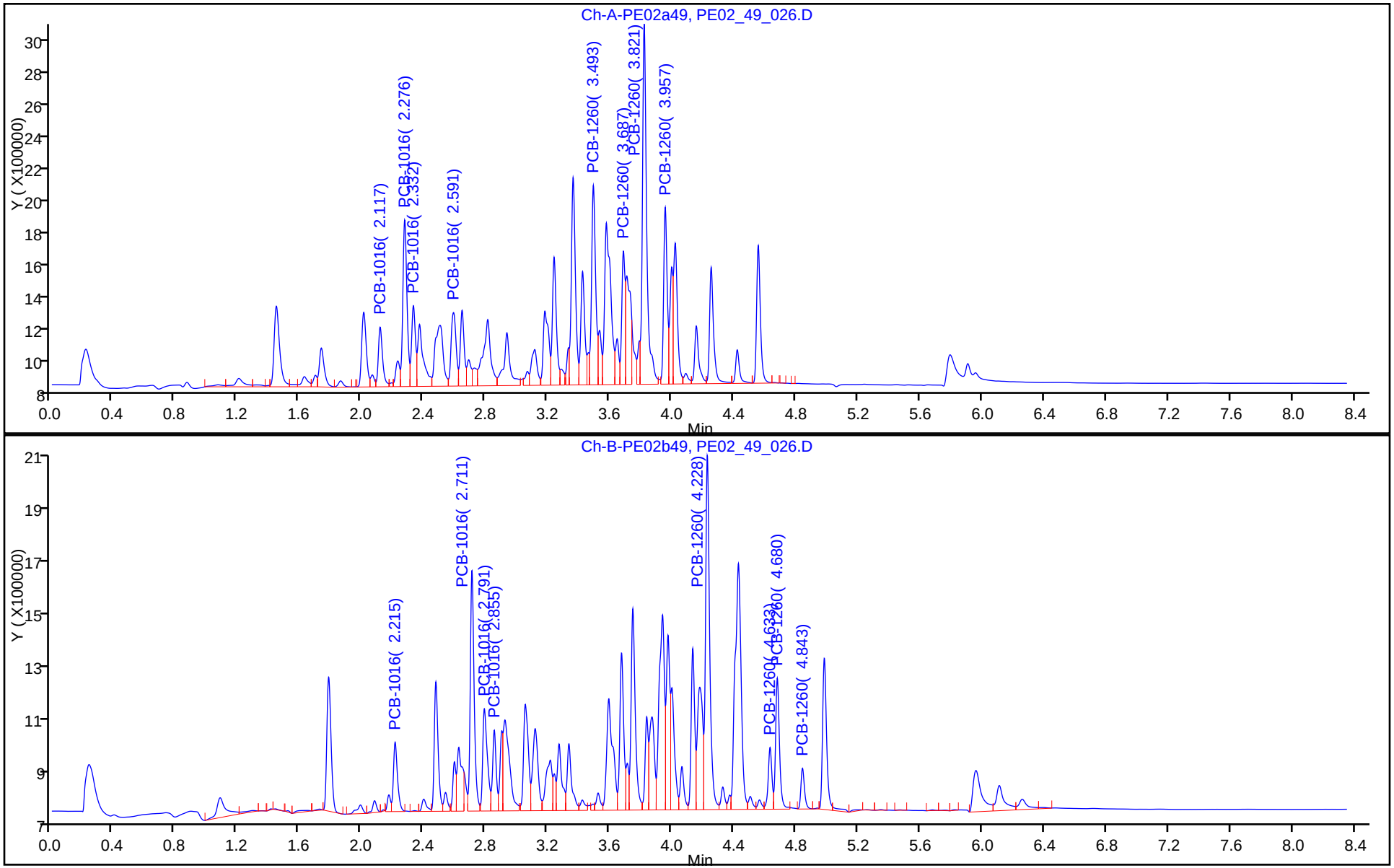
Review Flags
M - Manually Integrated

Report Date: 01-May-2014 07:32:59 Chrom Revision: 2.2 14-Apr-2014 13:40:08

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\PE-02\20140430-31599.b\PE02_49_026.D

Injection Date:	30-Apr-2014 11:00:18	Instrument ID:	PE-02	Operator ID:	buftchrom
Lims ID:	LCS 480-178927/2-A			Worklist Smp#:	76
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	PCBS	Limit Group:	GC - 8082A PCB ICAL		

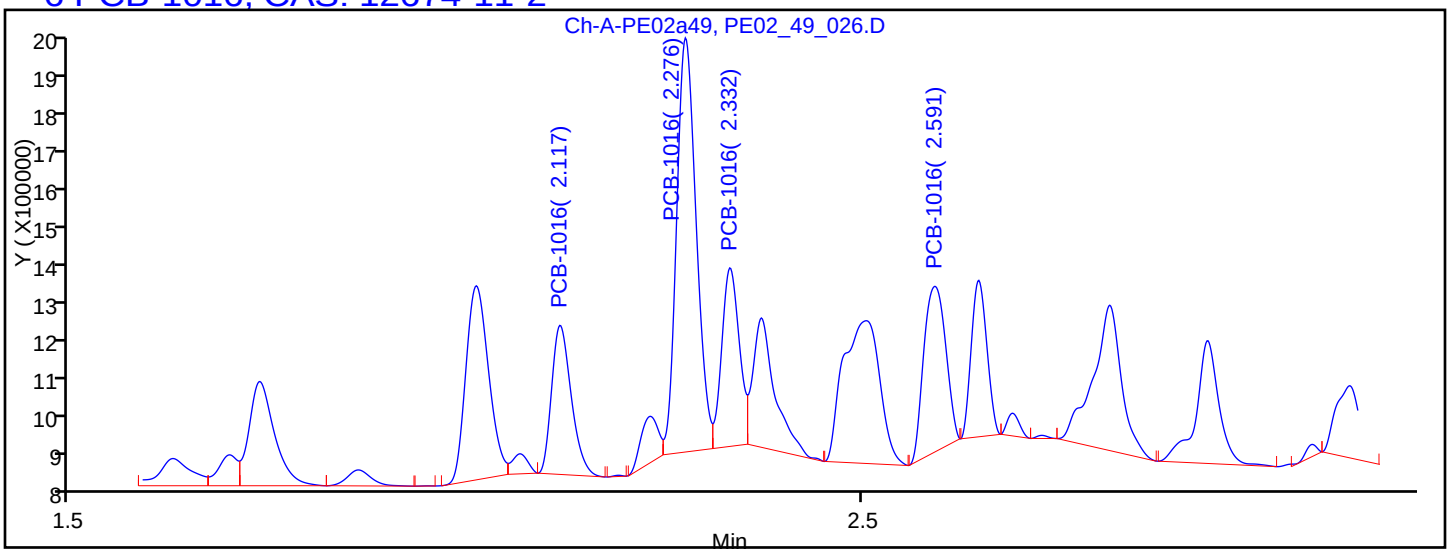


Report Date: 01-May-2014 07:33:00 Chrom Revision: 2.2 14-Apr-2014 13:40:08

TestAmerica Buffalo

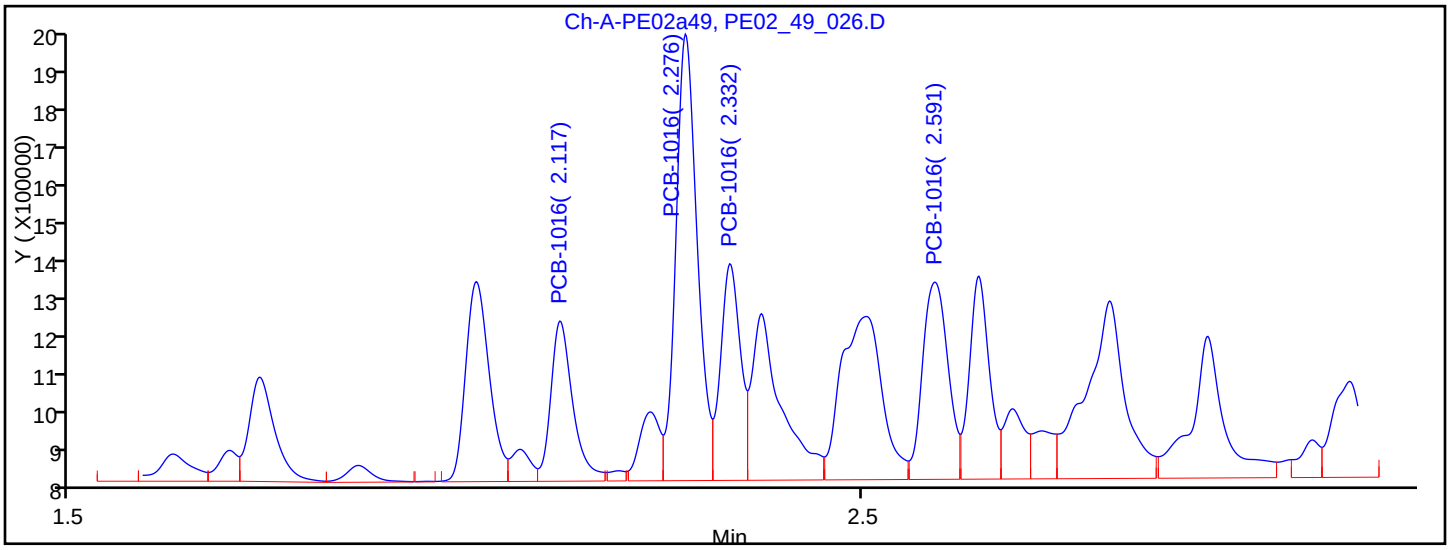
Data File: \\Bufchrom\ChromData\PE-02\20140430-31599.b\PE02_49_026.D
Injection Date: 30-Apr-2014 11:00:18 Instrument ID: PE-02
Lims ID: LCS 480-178927/2-A
Client ID:
Operator ID: buftchrom ALS Bottle#: 0 Worklist Smp#: 76
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBS Limit Group: GC - 8082A PCB ICAL
Column: Detector Ch-A-7A136

6 PCB-1016, CAS: 12674-11-2



Processing Integration Results

RT = 2.117	Response = 583655	M
RT = 2.276	Response = 1622033	M
RT = 2.332	Response = 628575	M
RT = 2.591	Response = 729839	M



Manual Integration Results

RT = 2.117	Response = 707213	M
RT = 2.276	Response = 1907150	M
RT = 2.332	Response = 859313	M
RT = 2.591	Response = 1006153	M

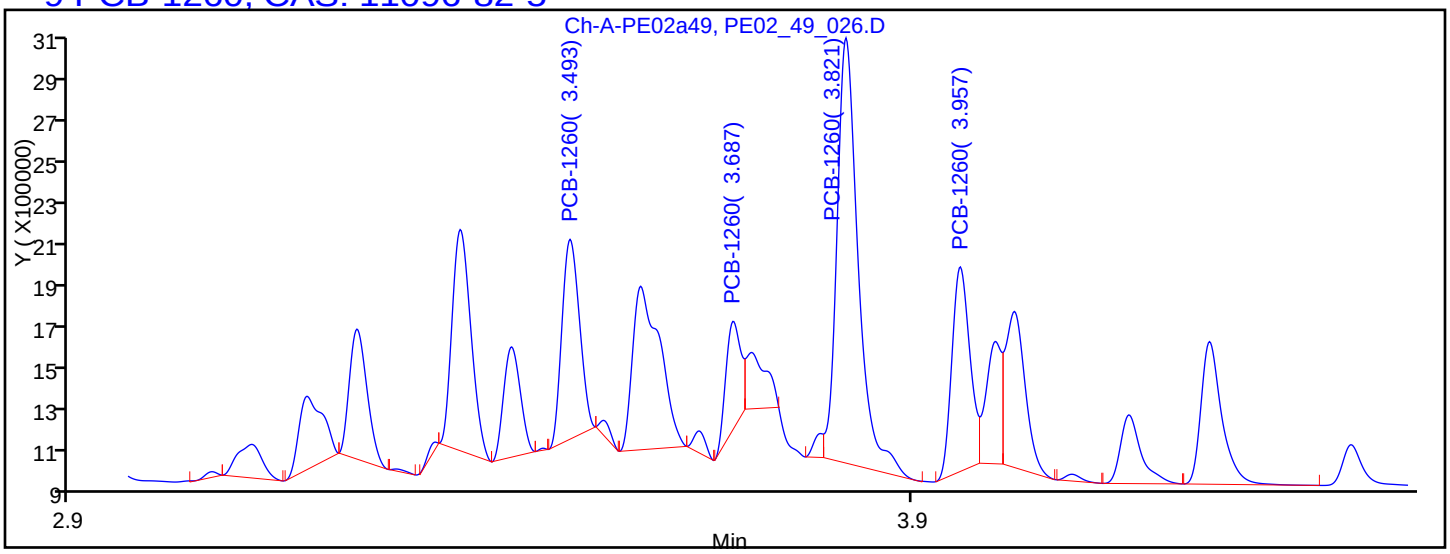
Reviewer: michalej, 01-May-2014 07:32:58
Audit Action: Assigned New Baseline
Audit Reason: Incomplete Integration

Report Date: 01-May-2014 07:33:01 Chrom Revision: 2.2 14-Apr-2014 13:40:08

TestAmerica Buffalo

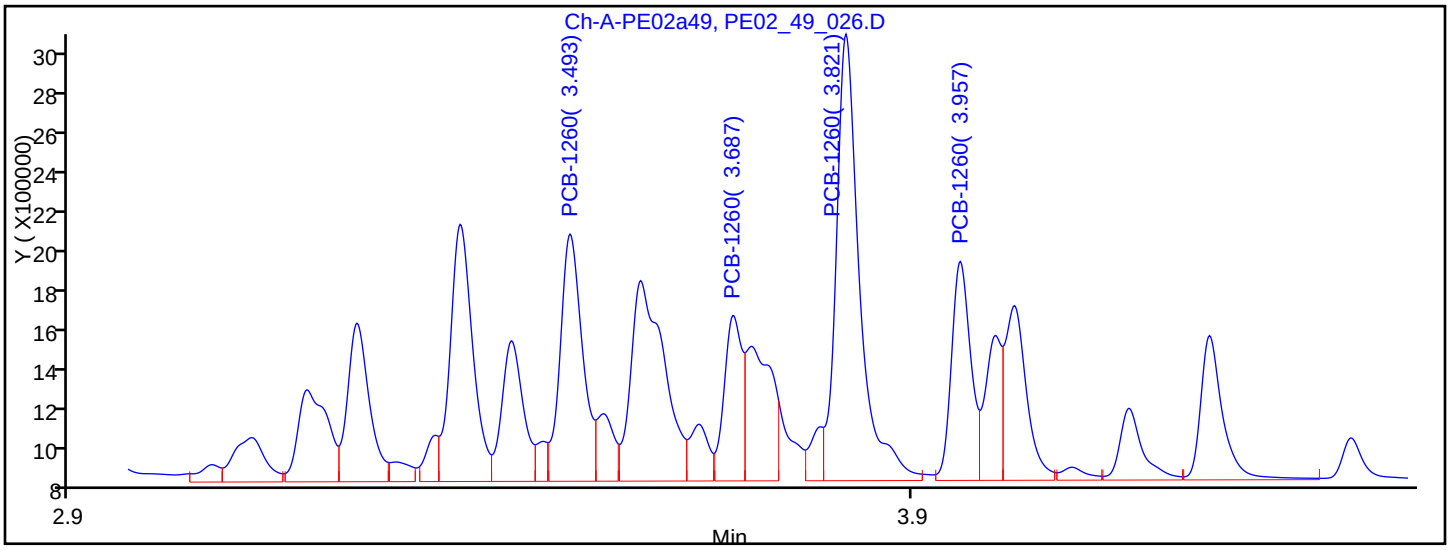
Data File: \\Bufchrom\ChromData\PE-02\20140430-31599.b\PE02_49_026.D
Injection Date: 30-Apr-2014 11:00:18 Instrument ID: PE-02
Lims ID: LCS 480-178927/2-A
Client ID:
Operator ID: buftchrom ALS Bottle#: 0 Worklist Smp#: 76
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBS Limit Group: GC - 8082A PCB ICAL
Column: Detector Ch-A-7A136

9 PCB-1260, CAS: 11096-82-5



Processing Integration Results

RT = 3.493	Response = 1415361	M
RT = 3.687	Response = 649417	M
RT = 3.821	Response = 3650834	M
RT = 3.957	Response = 1485380	M



Manual Integration Results

RT = 3.493	Response = 2239443	M
RT = 3.687	Response = 1209750	M
RT = 3.821	Response = 4267510	M
RT = 3.957	Response = 1712972	M

Reviewer: michalej, 01-May-2014 07:32:58
Audit Action: Assigned New Baseline
Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

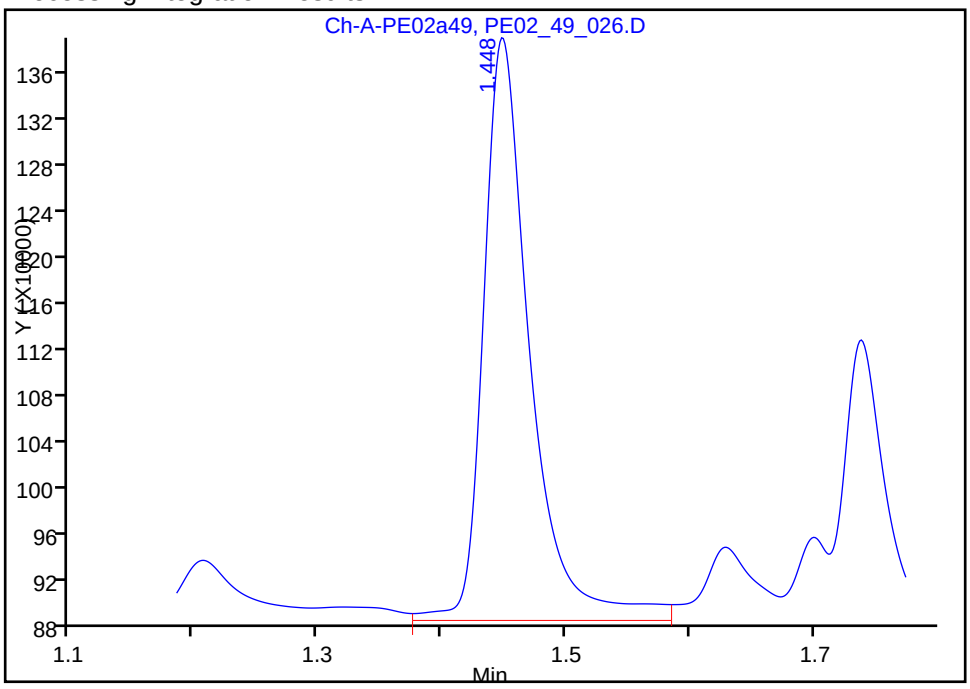
TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\PE-02\20140430-31599.b\PE02_49_026.D
Injection Date: 30-Apr-2014 11:00:18 Instrument ID: PE-02
Lims ID: LCS 480-178927/2-A
Client ID:
Operator ID: buftchrom ALS Bottle#: 0 Worklist Smp#: 76
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBS Limit Group: GC - 8082A PCB ICAL
Column: Detector Ch-A-7A136

$ 3 Tetrachloro-m-xylene, CAS: 877-09-8

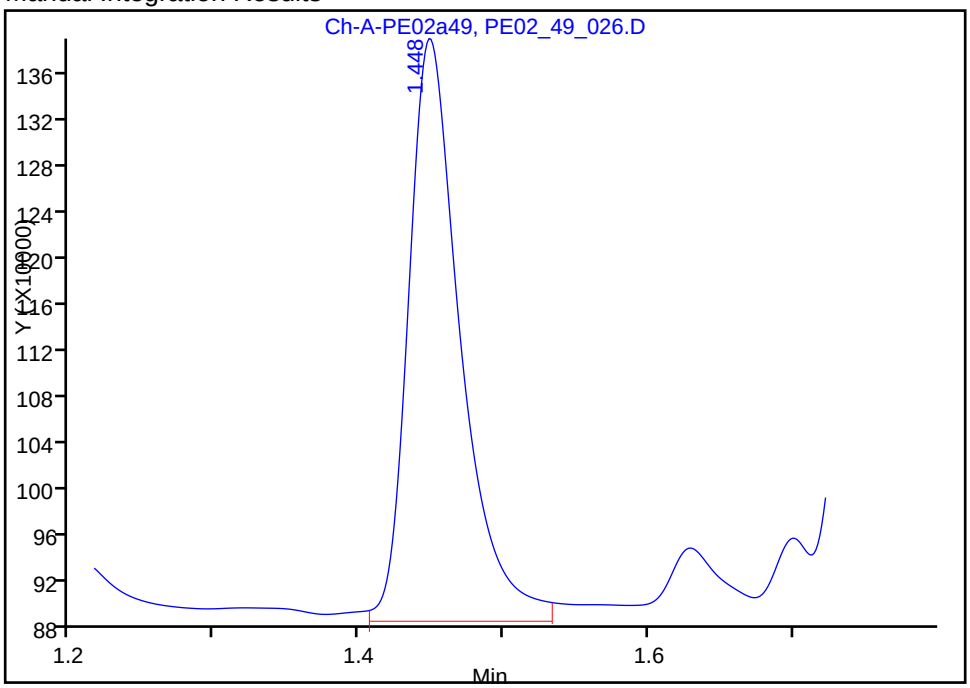
Processing Integration Results

RT: 1.45
Response: 1290867
Amount: 0.029419



Manual Integration Results

RT: 1.45
Response: 1233881
Amount: 0.028120



Reviewer: michalej, 01-May-2014 07:32:58
Audit Action: Split an Integrated Peak
Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

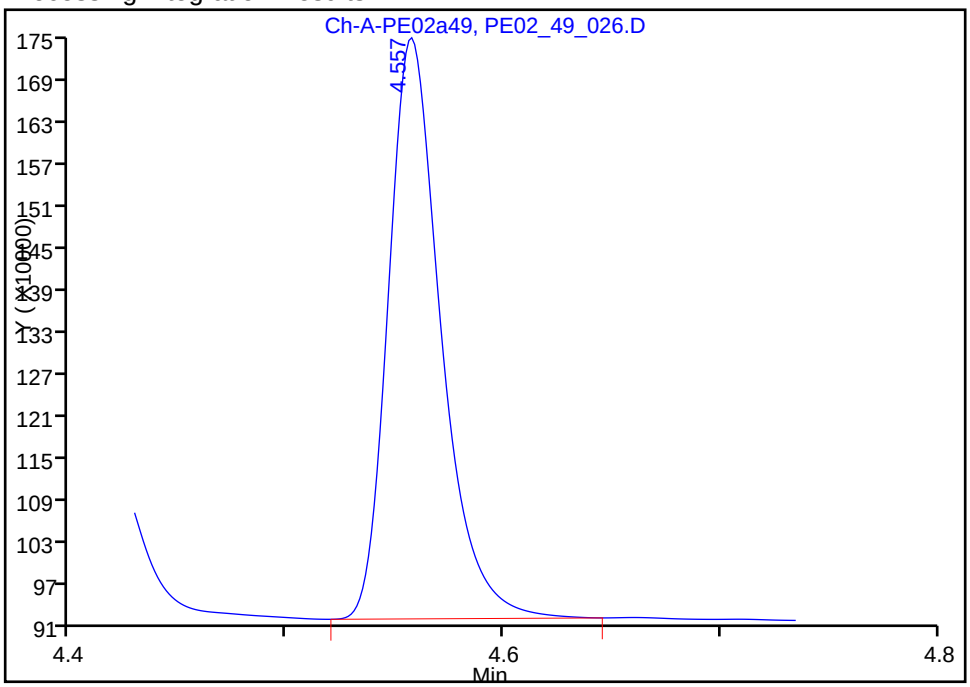
TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\PE-02\20140430-31599.b\PE02_49_026.D
Injection Date: 30-Apr-2014 11:00:18 Instrument ID: PE-02
Lims ID: LCS 480-178927/2-A
Client ID:
Operator ID: buftchrom ALS Bottle#: 0 Worklist Smp#: 76
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBS Limit Group: GC - 8082A PCB ICAL
Column: Detector Ch-A-7A136

$ 12 DCB Decachlorobiphenyl, CAS: 2051-24-3

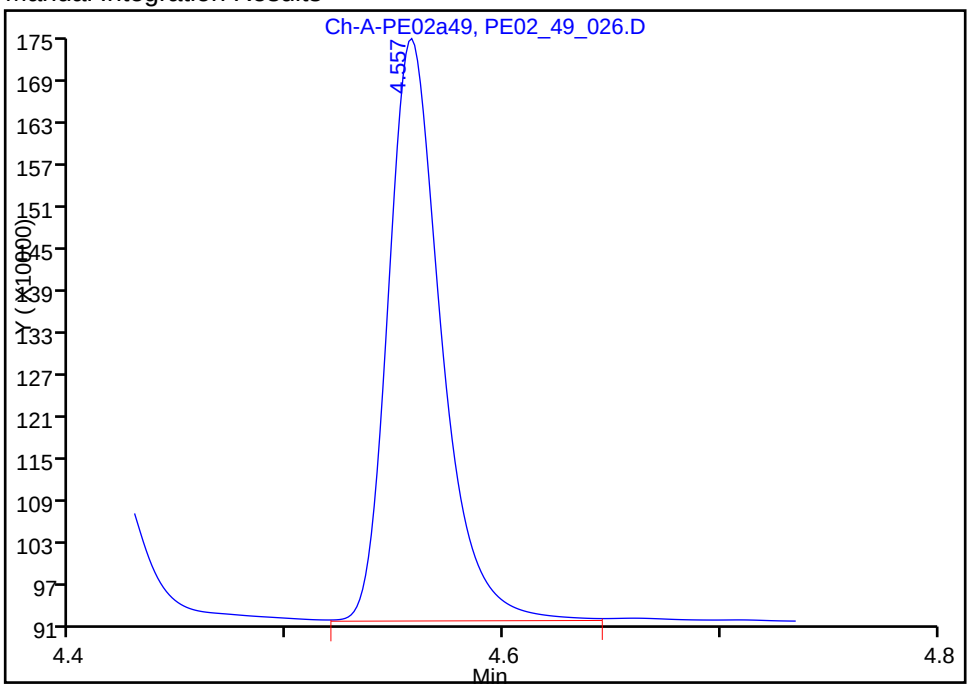
Processing Integration Results

RT: 4.56
Response: 1413355
Amount: 0.029211



Manual Integration Results

RT: 4.56
Response: 1430177
Amount: 0.029580



Reviewer: michalej, 01-May-2014 07:32:58
Audit Action: Assigned New Baseline
Audit Reason: Incomplete Integration

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 480-178927/2-A

Matrix: Solid Lab File ID: PE02_49_026.D

Analysis Method: 8082A Date Collected:

Extraction Method: 3550C Date Extracted: 04/29/2014 12:37

Sample wt/vol: +2.68(g) Date Analyzed: 04/30/2014 11:00

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.: 179084 Units: mg/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	131		46-175
2051-24-3	DCB Decachlorobiphenyl	144		47-176

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\PE-02\20140430-31599.b\PE02_49_026.D
Lims ID: LCS 480-178927/2-A
Client ID:
Sample Type: LCS
Inject. Date: 30-Apr-2014 11:00:18 ALS Bottle#: 0 Worklist Smp#: 76
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name: LCS 480-178927/2-A
Misc. Info.: Study: 480-0031599-076 Channel B: I/F Serial#, 680S10042901
Operator ID: buftchrom Instrument ID: PE-02

Method: \\Bufchrom\ChromData\PE-02\20140430-31599.b\PCBS.m
Limit Group: GC - 8082A PCB ICAL
Last Update: 01-May-2014 07:32:58 Calib Date: 23-Jan-2014 15:20:22
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\PE-02\20140123-29005.b\PE02_38_217.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK048

First Level Reviewer: michalej Date: 01-May-2014 07:32:58

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	1.448	1.448	0.000	1233881	0.0200	0.0281	M
2	1.785	1.788	-0.003	853639	0.0200	0.0262	
						RPD = 6.91	
6 PCB-1016							M
1	2.117	2.121	-0.004	707213	0.5000	0.6415	M
1	2.276	2.280	-0.004	1907150	0.5000	0.6087	M
1	2.332	2.337	-0.005	859313	0.5000	0.6200	M
1	2.591	2.596	-0.005	1006153	0.5000	0.6183	M
		Average of Peak Amounts =				0.6221	
2	2.215	2.219	-0.004	427385	0.5000	0.5675	M
2	2.711	2.716	-0.005	1403667	0.5000	0.5719	M
2	2.791	2.796	-0.005	717741	0.5000	0.6011	M
2	2.855	2.860	-0.005	438836	0.5000	0.6250	M
		Average of Peak Amounts =				0.5914	
						RPD = 5.06	
9 PCB-1260							M
1	3.493	3.499	-0.006	2239443	0.5000	0.5259	M
1	3.687	3.692	-0.005	1209750	0.5000	0.6659	M
1	3.821	3.825	-0.004	4267510	0.5000	0.6448	M
1	3.957	3.960	-0.003	1712972	0.5000	0.6046	M
		Average of Peak Amounts =				0.6103	
2	4.228	4.232	-0.004	2230902	0.5000	0.5652	M
2	4.633	4.636	-0.003	346100	0.5000	0.6986	M
2	4.680	4.683	-0.003	773805	0.5000	0.6854	M
2	4.843	4.845	-0.002	220295	0.5000	0.5612	M
		Average of Peak Amounts =				0.6276	
						RPD = 2.79	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
$ 12 DCB Decachlorobiphenyl							M
1	4.557	4.560	-0.003	1430177	0.0200	0.0296	M
2	4.983	4.985	-0.002	898213	0.0200	0.0287	M
						RPD = 2.87	

QC Flag Legend

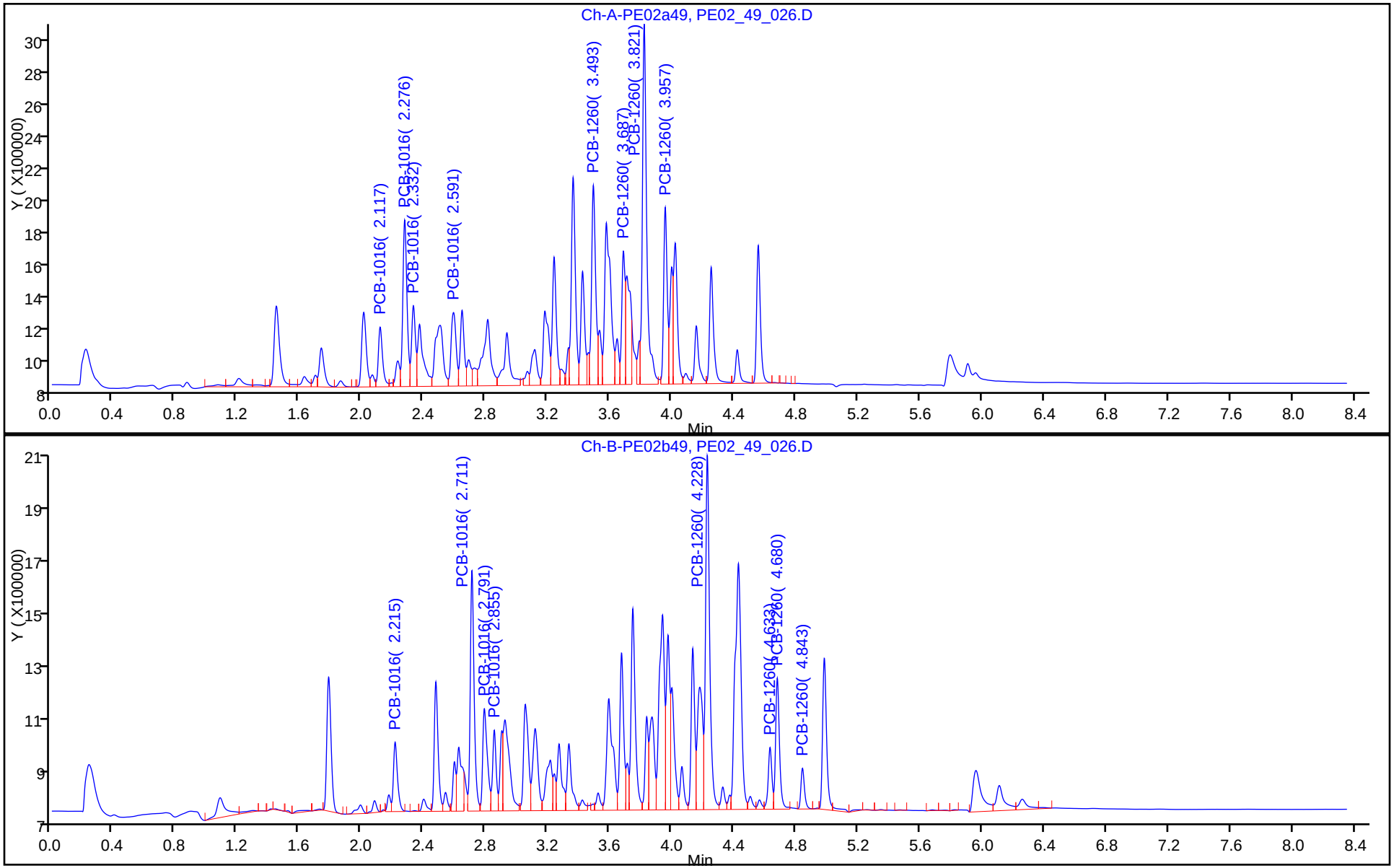
Review Flags
M - Manually Integrated

Report Date: 01-May-2014 07:33:01 Chrom Revision: 2.2 14-Apr-2014 13:40:08

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\PE-02\20140430-31599.b\PE02_49_026.D

Injection Date:	30-Apr-2014 11:00:18	Instrument ID:	PE-02	Operator ID:	buftchrom
Lims ID:	LCS 480-178927/2-A			Worklist Smp#:	76
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	PCBS	Limit Group:	GC - 8082A PCB ICAL		

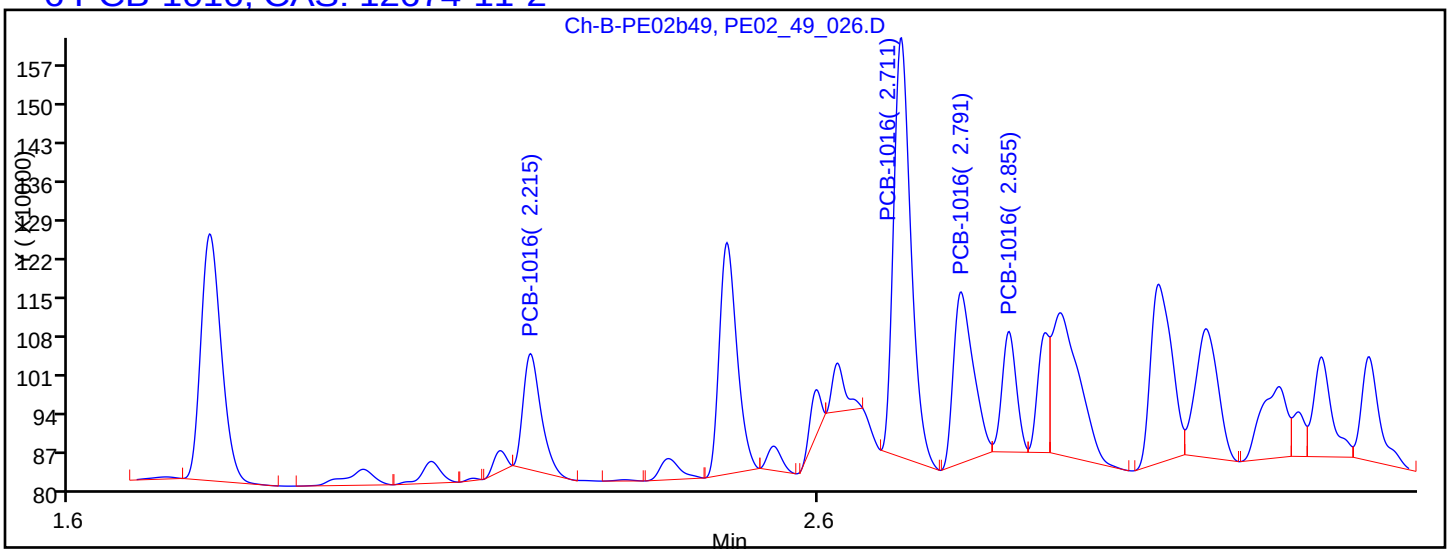


Report Date: 01-May-2014 07:33:01 Chrom Revision: 2.2 14-Apr-2014 13:40:08

TestAmerica Buffalo

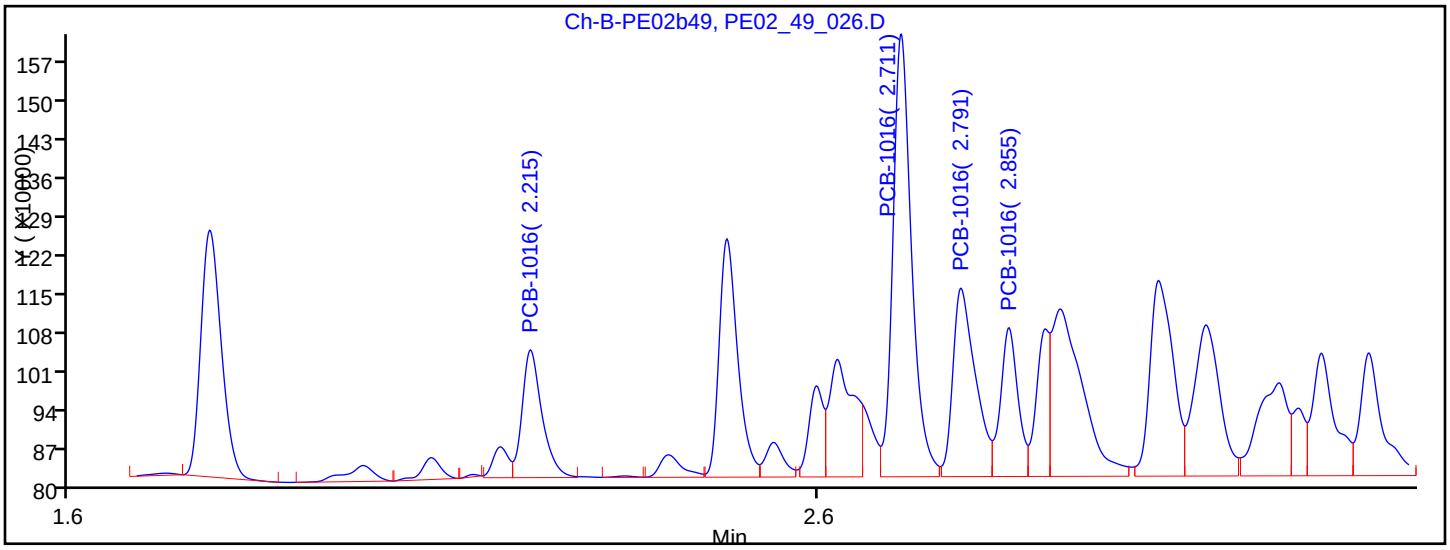
Data File: \\Bufchrom\ChromData\PE-02\20140430-31599.b\PE02_49_026.D
Injection Date: 30-Apr-2014 11:00:18 Instrument ID: PE-02
Lims ID: LCS 480-178927/2-A
Client ID:
Operator ID: buftchrom ALS Bottle#: 0 Worklist Smp#: 76
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBS Limit Group: GC - 8082A PCB ICAL
Column: Detector Ch-B-7b136

6 PCB-1016, CAS: 12674-11-2



Processing Integration Results

RT = 2.215	Response = 351486	M
RT = 2.711	Response = 1230223	M
RT = 2.791	Response = 575129	M
RT = 2.855	Response = 291374	M



Manual Integration Results

RT = 2.215	Response = 427385	M
RT = 2.711	Response = 1403667	M
RT = 2.791	Response = 717741	M
RT = 2.855	Response = 438836	M

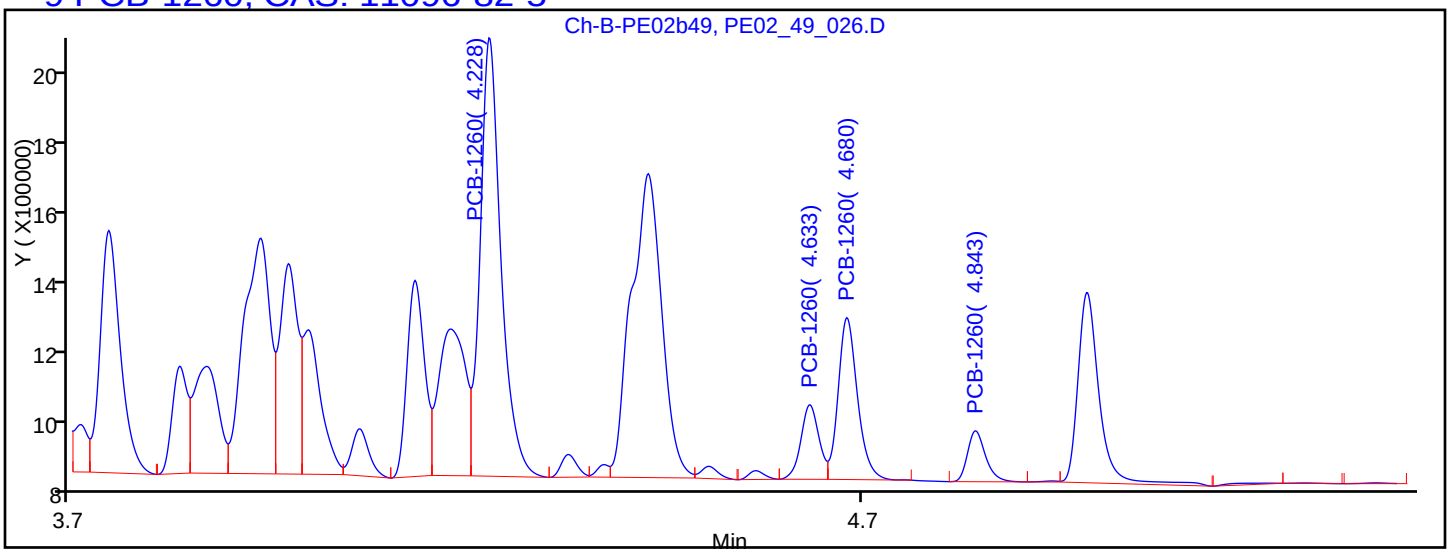
Reviewer: michalej, 01-May-2014 07:32:58
Audit Action: Assigned New Baseline
Audit Reason: Incomplete Integration

Report Date: 01-May-2014 07:33:01 Chrom Revision: 2.2 14-Apr-2014 13:40:08

TestAmerica Buffalo

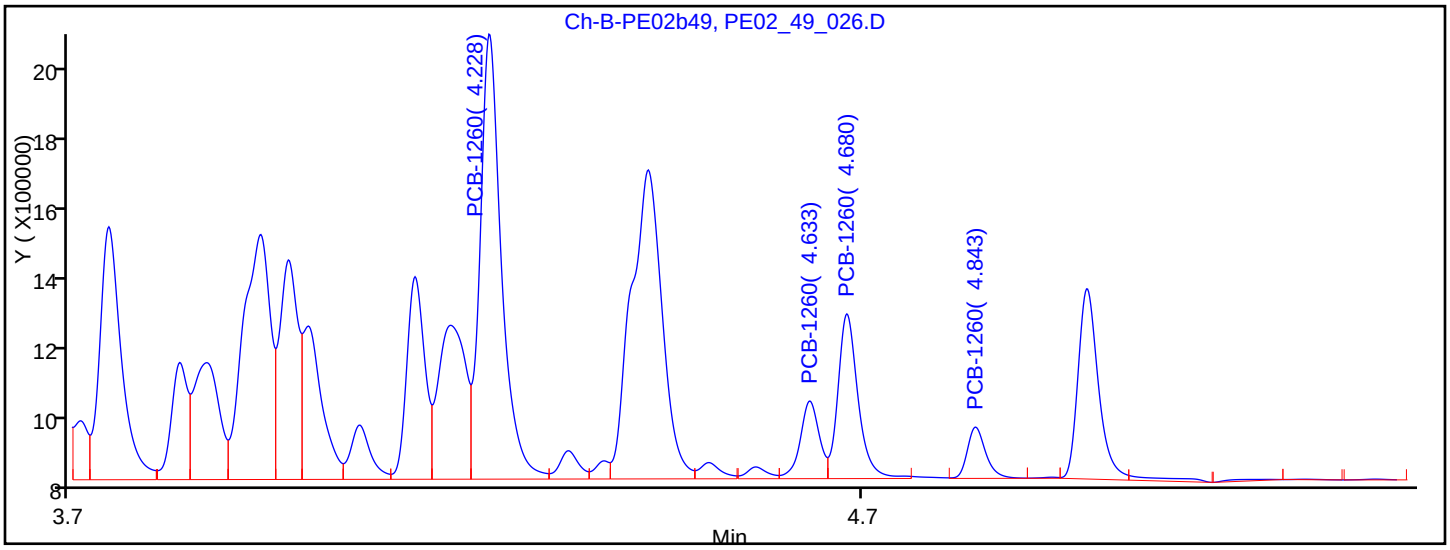
Data File: \\Bufchrom\ChromData\PE-02\20140430-31599.b\PE02_49_026.D
Injection Date: 30-Apr-2014 11:00:18 Instrument ID: PE-02
Lims ID: LCS 480-178927/2-A
Client ID:
Operator ID: buftchrom ALS Bottle#: 0 Worklist Smp#: 76
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBS Limit Group: GC - 8082A PCB ICAL
Column: Detector Ch-B-7b136

9 PCB-1260, CAS: 11096-82-5



Processing Integration Results

RT = 4.228	Response = 2132547	M
RT = 4.633	Response = 315477	M
RT = 4.680	Response = 730665	M
RT = 4.843	Response = 214478	M



Manual Integration Results

RT = 4.228	Response = 2230902	M
RT = 4.633	Response = 346100	M
RT = 4.680	Response = 773805	M
RT = 4.843	Response = 220295	M

Reviewer: michalej, 01-May-2014 07:32:58
Audit Action: Assigned New Baseline
Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

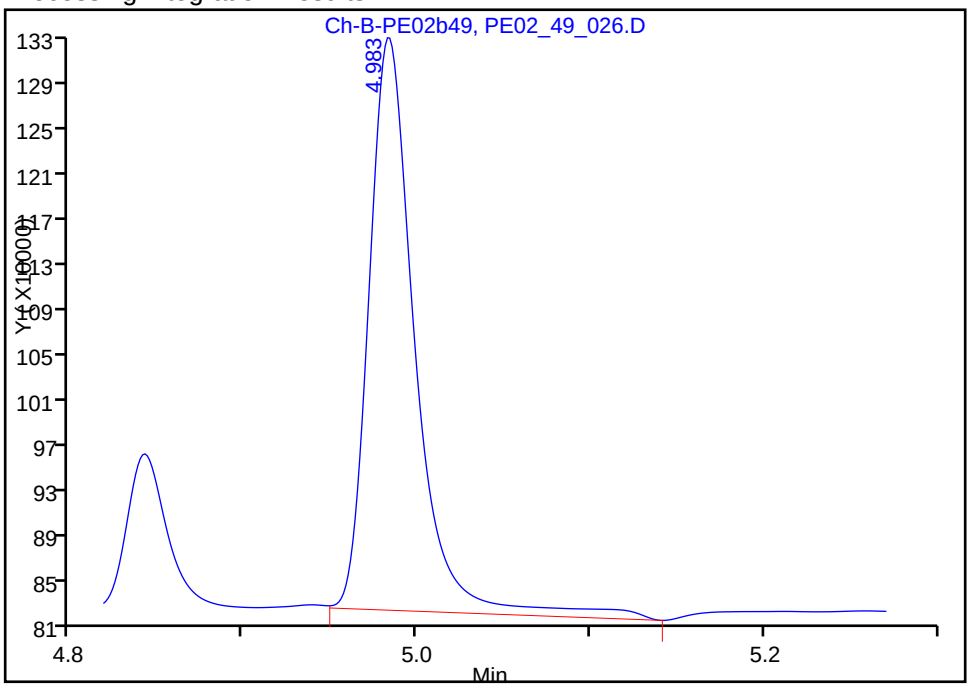
TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\PE-02\20140430-31599.b\PE02_49_026.D
Injection Date: 30-Apr-2014 11:00:18 Instrument ID: PE-02
Lims ID: LCS 480-178927/2-A
Client ID:
Operator ID: buftchrom ALS Bottle#: 0 Worklist Smp#: 76
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBS Limit Group: GC - 8082A PCB ICAL
Column: Detector Ch-B-7b136

$ 12 DCB Decachlorobiphenyl, CAS: 2051-24-3

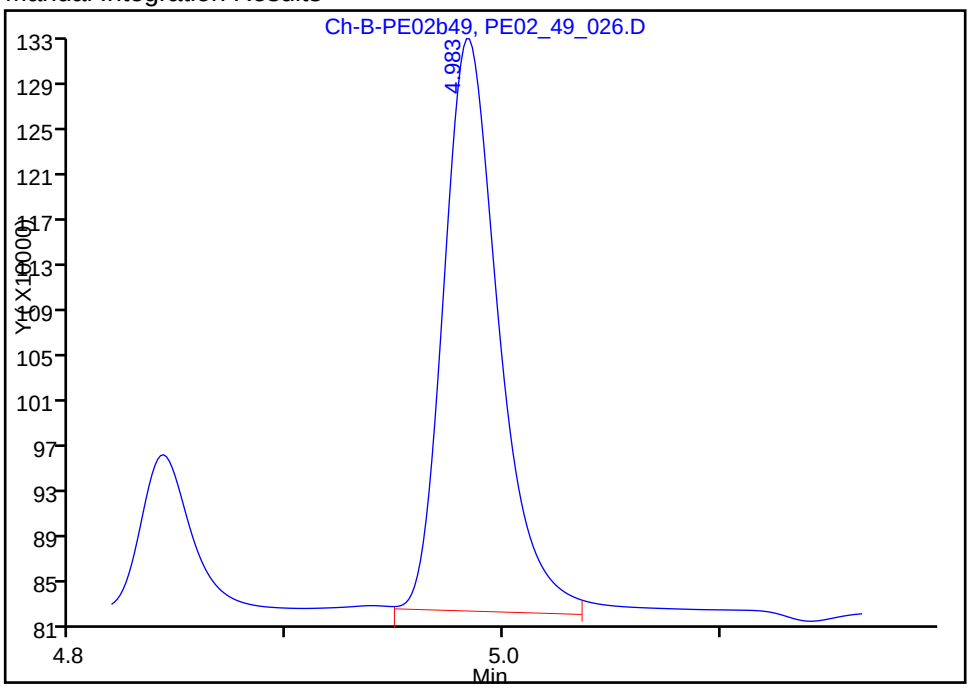
Processing Integration Results

RT: 4.98
Response: 943151
Amount: 0.030321



Manual Integration Results

RT: 4.98
Response: 898213
Amount: 0.028743



Reviewer: michalej, 01-May-2014 07:32:58
Audit Action: Split an Integrated Peak
Audit Reason: Incomplete Integration

PCBS ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1

SDG No.:

Instrument ID: PE-02 Start Date: 01/23/2014 10:33

Analysis Batch Number: 162934 End Date: 01/23/2014 15:34

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
STD1 480-162934/3 IC		01/23/2014 10:33	1	PE02_38_197.D	ZB-5 0.53(mm)
STD1 480-162934/3 IC		01/23/2014 10:33	1	PE02_38_197.D	ZB-35 0.53(mm)
STD2 480-162934/4 IC		01/23/2014 10:47	1	PE02_38_198.D	ZB-5 0.53(mm)
STD2 480-162934/4 IC		01/23/2014 10:47	1	PE02_38_198.D	ZB-35 0.53(mm)
STD3 480-162934/5 IC		01/23/2014 11:02	1	PE02_38_199.D	ZB-5 0.53(mm)
STD3 480-162934/5 IC		01/23/2014 11:02	1	PE02_38_199.D	ZB-35 0.53(mm)
STD4 480-162934/6 IC		01/23/2014 11:16	1	PE02_38_200.D	ZB-5 0.53(mm)
STD4 480-162934/6 IC		01/23/2014 11:16	1	PE02_38_200.D	ZB-35 0.53(mm)
STD5 480-162934/7 IC		01/23/2014 11:31	1	PE02_38_201.D	ZB-5 0.53(mm)
STD5 480-162934/7 IC		01/23/2014 11:31	1	PE02_38_201.D	ZB-35 0.53(mm)
STD6 480-162934/8 IC		01/23/2014 11:45	1	PE02_38_202.D	ZB-5 0.53(mm)
STD6 480-162934/8 IC		01/23/2014 11:45	1	PE02_38_202.D	ZB-35 0.53(mm)
STD7 480-162934/9 IC		01/23/2014 11:59	1	PE02_38_203.D	ZB-5 0.53(mm)
STD7 480-162934/9 IC		01/23/2014 11:59	1	PE02_38_203.D	ZB-35 0.53(mm)
ICV 480-162934/10		01/23/2014 12:14	1		ZB-5 0.53(mm)
ICV 480-162934/10		01/23/2014 12:14	1		ZB-35 0.53(mm)
STD21 480-162934/11 IC		01/23/2014 12:28	1	PE02_38_205.D	ZB-5 0.53(mm)
STD21 480-162934/11 IC		01/23/2014 12:28	1	PE02_38_205.D	ZB-35 0.53(mm)
ICV 480-162934/12		01/23/2014 12:42	1		ZB-5 0.53(mm)
ICV 480-162934/12		01/23/2014 12:42	1		ZB-35 0.53(mm)
STD32 480-162934/13 IC		01/23/2014 12:57	1	PE02_38_207.D	ZB-5 0.53(mm)
STD32 480-162934/13 IC		01/23/2014 12:57	1	PE02_38_207.D	ZB-35 0.53(mm)
ICV 480-162934/14		01/23/2014 13:11	1		ZB-5 0.53(mm)
ICV 480-162934/14		01/23/2014 13:11	1		ZB-35 0.53(mm)
STD42 480-162934/15 IC		01/23/2014 13:25	1	PE02_38_209.D	ZB-5 0.53(mm)
STD42 480-162934/15 IC		01/23/2014 13:25	1	PE02_38_209.D	ZB-35 0.53(mm)
ICV 480-162934/16		01/23/2014 13:39	1		ZB-5 0.53(mm)
ICV 480-162934/16		01/23/2014 13:39	1		ZB-35 0.53(mm)
STD48 480-162934/17 IC		01/23/2014 13:54	1	PE02_38_211.D	ZB-5 0.53(mm)
STD48 480-162934/17 IC		01/23/2014 13:54	1	PE02_38_211.D	ZB-35 0.53(mm)
ICV 480-162934/18		01/23/2014 14:08	1		ZB-5 0.53(mm)
ICV 480-162934/18		01/23/2014 14:08	1		ZB-35 0.53(mm)
STD54 480-162934/19 IC		01/23/2014 14:22	1	PE02_38_213.D	ZB-5 0.53(mm)
STD54 480-162934/19 IC		01/23/2014 14:22	1	PE02_38_213.D	ZB-35 0.53(mm)
ICV 480-162934/20		01/23/2014 14:37	1		ZB-5 0.53(mm)
ICV 480-162934/20		01/23/2014 14:37	1		ZB-35 0.53(mm)
STD62 480-162934/21 IC		01/23/2014 14:51	1		ZB-5 0.53(mm)
STD62 480-162934/21 IC		01/23/2014 14:51	1		ZB-35 0.53(mm)
ICV 480-162934/22		01/23/2014 15:05	1		ZB-5 0.53(mm)
ICV 480-162934/22		01/23/2014 15:05	1		ZB-35 0.53(mm)

8082A

PCBS ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1

SDG No.:

Instrument ID: PE-02 Start Date: 01/23/2014 10:33

Analysis Batch Number: 162934 End Date: 01/23/2014 15:34

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
STD68 480-162934/23 IC		01/23/2014 15:20	1		ZB-5 0.53(mm)
STD68 480-162934/23 IC		01/23/2014 15:20	1		ZB-35 0.53(mm)
ICV 480-162934/24		01/23/2014 15:34	1		ZB-5 0.53(mm)
ICV 480-162934/24		01/23/2014 15:34	1		ZB-35 0.53(mm)

PCBS ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1

SDG No.:

Instrument ID: PE-02 Start Date: 04/30/2014 07:43

Analysis Batch Number: 179084 End Date: 04/30/2014 15:19

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 480-179084/5		04/30/2014 07:43	1		ZB-5 0.53(mm)
CCV 480-179084/5		04/30/2014 07:43	1		ZB-35 0.53(mm)
ZZZZZ		04/30/2014 08:37	1		ZB-5 0.53(mm)
ZZZZZ		04/30/2014 08:37	1		ZB-35 0.53(mm)
ZZZZZ		04/30/2014 08:51	1		ZB-5 0.53(mm)
ZZZZZ		04/30/2014 08:51	1		ZB-35 0.53(mm)
ZZZZZ		04/30/2014 09:05	1		ZB-5 0.53(mm)
ZZZZZ		04/30/2014 09:05	1		ZB-35 0.53(mm)
ZZZZZ		04/30/2014 09:33	10		ZB-5 0.53(mm)
ZZZZZ		04/30/2014 09:33	10		ZB-35 0.53(mm)
ZZZZZ		04/30/2014 10:02	50		ZB-5 0.53(mm)
ZZZZZ		04/30/2014 10:02	50		ZB-35 0.53(mm)
CCV 480-179084/73		04/30/2014 10:16	1	PE02_49_023.D	ZB-5 0.53(mm)
CCV 480-179084/73		04/30/2014 10:16	1	PE02_49_023.D	ZB-35 0.53(mm)
MB 480-178927/1-A		04/30/2014 10:45	1	PE02_49_025.D	ZB-5 0.53(mm)
MB 480-178927/1-A		04/30/2014 10:45	1	PE02_49_025.D	ZB-35 0.53(mm)
LCS 480-178927/2-A		04/30/2014 11:00	1	PE02_49_026.D	ZB-5 0.53(mm)
LCS 480-178927/2-A		04/30/2014 11:00	1	PE02_49_026.D	ZB-35 0.53(mm)
ZZZZZ		04/30/2014 11:14	1		ZB-5 0.53(mm)
ZZZZZ		04/30/2014 11:14	1		ZB-35 0.53(mm)
ZZZZZ		04/30/2014 11:29	1		ZB-5 0.53(mm)
ZZZZZ		04/30/2014 11:29	1		ZB-35 0.53(mm)
ZZZZZ		04/30/2014 11:43	1		ZB-5 0.53(mm)
ZZZZZ		04/30/2014 11:43	1		ZB-35 0.53(mm)
ZZZZZ		04/30/2014 11:58	1		ZB-5 0.53(mm)
ZZZZZ		04/30/2014 11:58	1		ZB-35 0.53(mm)
ZZZZZ		04/30/2014 12:12	1		ZB-5 0.53(mm)
ZZZZZ		04/30/2014 12:12	1		ZB-35 0.53(mm)
ZZZZZ		04/30/2014 12:27	1		ZB-5 0.53(mm)
ZZZZZ		04/30/2014 12:27	1		ZB-35 0.53(mm)
ZZZZZ		04/30/2014 12:41	1		ZB-5 0.53(mm)
ZZZZZ		04/30/2014 12:41	1		ZB-35 0.53(mm)
ZZZZZ		04/30/2014 12:56	1		ZB-5 0.53(mm)
ZZZZZ		04/30/2014 12:56	1		ZB-35 0.53(mm)
CCV 480-179084/85		04/30/2014 13:10	1	PE02_49_035.D	ZB-5 0.53(mm)
CCV 480-179084/85		04/30/2014 13:10	1	PE02_49_035.D	ZB-35 0.53(mm)
ZZZZZ		04/30/2014 13:39	1		ZB-5 0.53(mm)
ZZZZZ		04/30/2014 13:39	1		ZB-35 0.53(mm)
ZZZZZ		04/30/2014 14:08	1		ZB-5 0.53(mm)
ZZZZZ		04/30/2014 14:08	1		ZB-35 0.53(mm)
480-58807-1	P1-1(Sed)	04/30/2014 14:22	1	PE02_49_040.D	ZB-5 0.53(mm)
480-58807-1	P1-1(Sed)	04/30/2014 14:22	1	PE02_49_040.D	ZB-35 0.53(mm)
480-58807-2	P1-2(Sed)	04/30/2014 14:36	1	PE02_49_041.D	ZB-5 0.53(mm)
480-58807-2	P1-2(Sed)	04/30/2014 14:36	1	PE02_49_041.D	ZB-35 0.53(mm)
480-58807-3	P2-1(Sed)	04/30/2014 14:51	1	PE02_49_042.D	ZB-5 0.53(mm)

PCBS ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1

SDG No.:

Instrument ID: PE-02 Start Date: 04/30/2014 07:43

Analysis Batch Number: 179084 End Date: 04/30/2014 15:19

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
480-58807-3	P2-1(Sed)	04/30/2014 14:51	1	PE02_49_042.D	ZB-35 0.53(mm)
480-58807-4	P2-2(Sed)	04/30/2014 15:05	1	PE02_49_043.D	ZB-5 0.53(mm)
480-58807-4	P2-2(Sed)	04/30/2014 15:05	1	PE02_49_043.D	ZB-35 0.53(mm)
CCV 480-179084/92		04/30/2014 15:19	1	PE02_49_044.D	ZB-5 0.53(mm)
CCV 480-179084/92		04/30/2014 15:19	1	PE02_49_044.D	ZB-35 0.53(mm)

PCBS BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1

SDG No.:

Batch Number: 178927 Batch Start Date: 04/29/14 12:36 Batch Analyst: Larson, Joseph R

Batch Method: 3550C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	O_8081/82surr 00059	O_8082spike 00025		
MB 480-178927/1		3550C, 8082A		+2.16 g	10 mL	1 mL			
LCS 480-178927/2		3550C, 8082A		+2.68 g	10 mL	1 mL	1 mL		
480-58807-B-1	P1-1(Sed)	3550C, 8082A	T	+2.08 g	11 mL	1 mL			
480-58807-C-2	P1-2(Sed)	3550C, 8082A	T	+2.23 g	11 mL	1 mL			
480-58807-B-3	P2-1(Sed)	3550C, 8082A	T	+2.16 g	10 mL	1 mL			
480-58807-C-4	P2-2(Sed)	3550C, 8082A	T	+2.56 g	10 mL	1 mL			

Batch Notes	
Balance ID	40029
Batch Comment	Sulfuic Acid Cleanup 0000065090; JRL 4/29/14
Vendor lot number	Hexane; 00000067920
Prep Solvent Volume Used	10 mL
Person's name who did the prep	JRL

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 8151A

Herbicides (GC) by Method 8151A

FORM II
HERBICIDES SURROGATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1

SDG No.:

Matrix: Solid (TCLP) Level: Low

GC Column (1): RTX-CLPI ID: 0.32 (mm) GC Column (2): RTX-CLPII ID: 0.32 (mm)

Client Sample ID	Lab Sample ID	DCPA1	#	DCPA2	#
P1-1(Sed)	480-58807-1	35	X	39	X
P1-2(Sed)	480-58807-2	36	X	40	
P2-1(Sed)	480-58807-3	31	X	32	X
P2-2(Sed)	480-58807-4	31	X	35	X
	MB 480-180800/1-A	97		102	
	LB 480-180381/1-E	33	X	34	X
	LCS 480-180800/2-A	104		105	
	LCSD 480-180800/3-A	99		89	

	QC LIMITS
DCPA = 2,4-Dichlorophenylacetic acid	40-135

Column to be used to flag recovery values

FORM II 8151

FORM III
HERBICIDES LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 13_59004.D

Lab ID: LCS 480-180800/2-A Client ID:

COMPOUND	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC	QC LIMITS REC	#
2,4-D	0.00200	0.00138	69	39-157	
Silvex (2,4,5-TP)	0.00200	0.00153	77	35-173	

Column to be used to flag recovery and RPD values

FORM III 8151

FORM III
HERBICIDES LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 13_59005.D

Lab ID: LCSD 480-180800/3-A Client ID:

COMPOUND	SPIKE ADDED (mg/L)	LCSD CONCENTRATION (mg/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
2,4-D	0.00200	0.00189	95	31	50	39-157	
Silvex (2,4,5-TP)	0.00200	0.00171	85	11	50	35-173	

Column to be used to flag recovery and RPD values

FORM III 8151

FORM IV
HERBICIDES METHOD BLANK SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1

SDG No.:

Lab Sample ID: MB 480-180800/1-A

Matrix: Water Date Extracted: 05/08/2014 06:41

Lab File ID:(1) 13_59003.D Lab File ID:(2) 13_59003.D

Date Analyzed:(1) 05/12/2014 11:37 Date Analyzed:(2) 05/12/2014 11:37

Instrument ID:(1) HP5890-13 Instrument ID:(2) HP5890-13

GC Column:(1) RTX-CLPI ID: 0.32(mm) GC Column:(2) RTX-CLPII ID: 0.32(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
	LCS 480-180800/2-A	05/12/2014 12:07	05/12/2014 12:07
	LCSD 480-180800/3-A	05/12/2014 12:37	05/12/2014 12:37
	LB 480-180381/1-E	05/12/2014 13:06	05/12/2014 13:06
P1-1(Sed)	480-58807-1	05/12/2014 13:36	05/12/2014 13:36
P1-2(Sed)	480-58807-2	05/12/2014 14:06	05/12/2014 14:06
P2-1(Sed)	480-58807-3	05/12/2014 14:35	05/12/2014 14:35
P2-2(Sed)	480-58807-4	05/12/2014 15:05	05/12/2014 15:05

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 480-180800/2-A

Instrument ID (1): HP5890-13 Instrument ID (2): HP5890-13

Date Analyzed (1): 05/12/2014 12:07 Date Analyzed (2): 05/12/2014 12:07

GC Column (1): RTX-CLPI ID: 0.32(mm) GC Column (2): RTX-CLPII ID: 0.32(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
2,4-D	1		13.75	13.73	13.79	0.00138		18.4
	2		16.22	16.20	16.26	0.00166		
Silvex (2,4,5-TP)	1		15.09	15.06	15.12	0.00153		5.5
	2		18.31	18.29	18.35	0.00162		

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1

SDG No.:

Client Sample ID: Lab Sample ID: LCSD 480-180800/3-A

Instrument ID (1): HP5890-13 Instrument ID (2): HP5890-13

Date Analyzed (1): 05/12/2014 12:37 Date Analyzed (2): 05/12/2014 12:37

GC Column (1): RTX-CLPI ID: 0.32(mm) GC Column (2): RTX-CLPII ID: 0.32(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
2,4-D	1		13.75	13.73	13.79	0.00189		5.7
	2		16.22	16.20	16.26	0.00179		
Silvex (2,4,5-TP)	1		15.09	15.06	15.12	0.00171		4.3
	2		18.31	18.29	18.35	0.00178		

FORM I
HERBICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-58807-1

SDG No.:

Client Sample ID: P1-1(Sed) | Lab Sample ID: 480-58807-1

Matrix: Solid (TCLP) | Lab File ID: 13_59007.D

Analysis Method: 8151 | Date Collected: 04/25/2014 00:00

Extraction Method: 8151A | Date Extracted: 05/08/2014 06:41

Sample wt/vol: 250(mL) | Date Analyzed: 05/12/2014 13:36

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RTX-CLPI ID: 0.32(mm)

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

Analysis Batch No.: 181242 | Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
94-75-7	2,4-D	ND		0.0020	0.00040
93-72-1	Silvex (2,4,5-TP)	ND		0.0020	0.00036

CAS NO.	SURROGATE	%REC	Q	LIMITS
19719-28-9	2,4-Dichlorophenylacetic acid	35	X	40-135

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5890-13\20140509-31952.b\13_59007.D
Lims ID: 480-58807-B-1-H Lab Sample ID: 480-58807-1
Client ID: P1-1(Sed)
Sample Type: Client
Inject. Date: 12-May-2014 13:36:29 ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: Name: 480-58807-B-1-H
Misc. Info.: Study: 480-0031952-007 Channel B: I/F Serial#, 4087270795
Operator ID: buftchrom Instrument ID: HP5890-13

Method: \\Bufchrom\ChromData\HP5890-13\20140509-31952.b\8151-13.m
Limit Group: GC - 8151A - ICAL
Last Update: 12-May-2014 13:56:04 Calib Date: 08-Apr-2014 20:10:39
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5890-13\20140405-30802.b\13_57010.D

Column 1 : RTX-CLPI (0.32 mm) Det: Ch-A-13A01239
Column 2 : RTX-CLPII (0.32 mm) Det: Ch-B-13b01239
Process Host: XAWRK049

First Level Reviewer: RudzG Date: 12-May-2014 13:54:49

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Flags
$ 1 2,4-Dichlorophenylacetic acid						M
1	12.267	12.273	-0.006	266447	0.1737	
2	13.980	13.987	-0.007	302743	0.1939	M
					RPD = 11.01	

QC Flag Legend

Review Flags
M - Manually Integrated

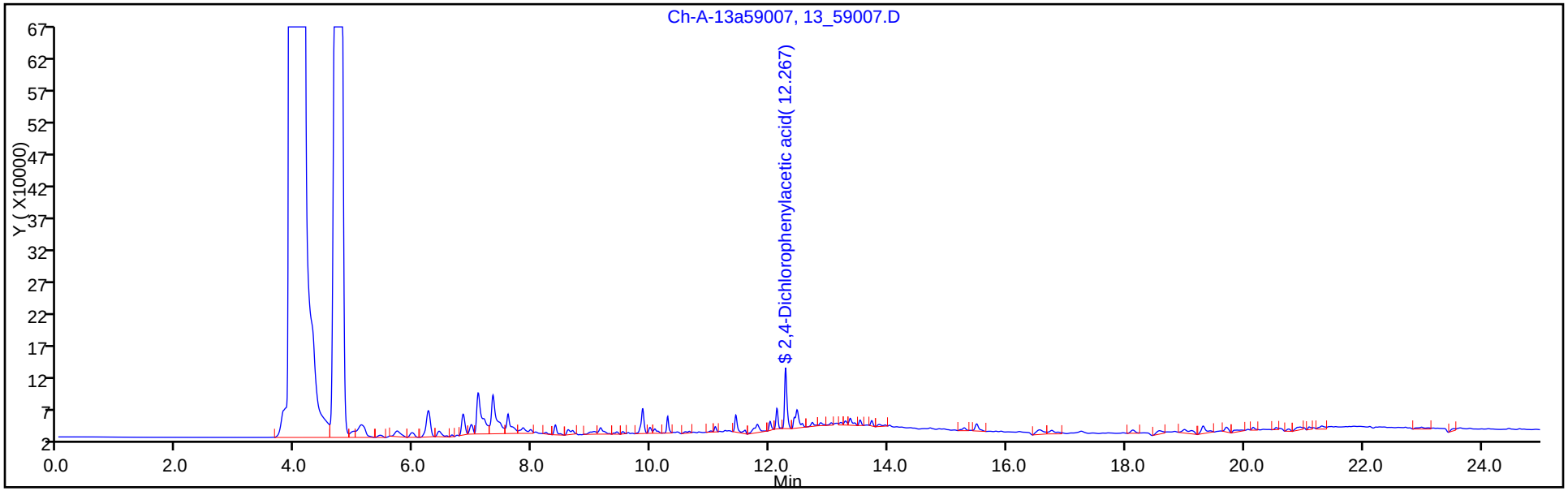
Report Date: 12-May-2014 13:56:10 Chrom Revision: 2.2 14-Apr-2014 13:40:08

TestAmerica Buffalo

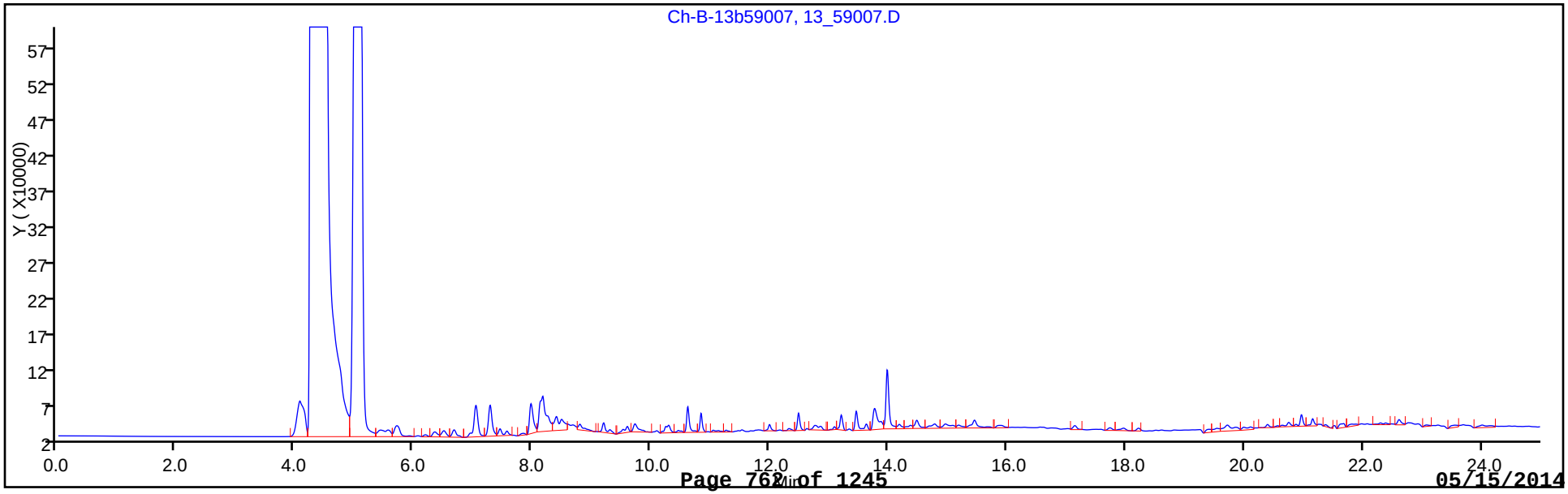
Data File: \\Bufchrom\ChromData\HP5890-13\20140509-31952.b\13_59007.D

Injection Date:	12-May-2014 13:36:29	Instrument ID:	HP5890-13	Operator ID:	buftchrom
Lims ID:	480-58807-B-1-H	Lab Sample ID:	480-58807-1	Worklist Smp#:	7
Client ID:	P1-1(Sed)				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8151-13	Limit Group:	GC - 8151A - ICAL		

Column: RTX-CLPI (0.32 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-CLPII (0.32 mm) Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
HERBICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1

SDG No.:

Client Sample ID: P1-1(Sed) Lab Sample ID: 480-58807-1

Matrix: Solid (TCLP) Lab File ID: 13_59007.D

Analysis Method: 8151 Date Collected: 04/25/2014 00:00

Extraction Method: 8151A Date Extracted: 05/08/2014 06:41

Sample wt/vol: 250(mL) Date Analyzed: 05/12/2014 13:36

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: RTX-CLPII ID: 0.32(mm)

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

Analysis Batch No.: 181242 Units: mg/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
19719-28-9	2,4-Dichlorophenylacetic acid	39	*X*	40-135

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5890-13\20140509-31952.b\13_59007.D
Lims ID: 480-58807-B-1-H Lab Sample ID: 480-58807-1
Client ID: P1-1(Sed)
Sample Type: Client
Inject. Date: 12-May-2014 13:36:29 ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: Name: 480-58807-B-1-H
Misc. Info.: Study: 480-0031952-007 Channel B: I/F Serial#, 4087270795
Operator ID: buftchrom Instrument ID: HP5890-13

Method: \\Bufchrom\ChromData\HP5890-13\20140509-31952.b\8151-13.m
Limit Group: GC - 8151A - ICAL
Last Update: 12-May-2014 13:56:04 Calib Date: 08-Apr-2014 20:10:39
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5890-13\20140405-30802.b\13_57010.D

Column 1 : RTX-CLPI (0.32 mm) Det: Ch-A-13A01239
Column 2 : RTX-CLPII (0.32 mm) Det: Ch-B-13b01239
Process Host: XAWRK049

First Level Reviewer: RudzG Date: 12-May-2014 13:54:49

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Flags
$ 1 2,4-Dichlorophenylacetic acid						M
1	12.267	12.273	-0.006	266447	0.1737	
2	13.980	13.987	-0.007	302743	0.1939	M
					RPD = 11.01	

QC Flag Legend

Review Flags
M - Manually Integrated

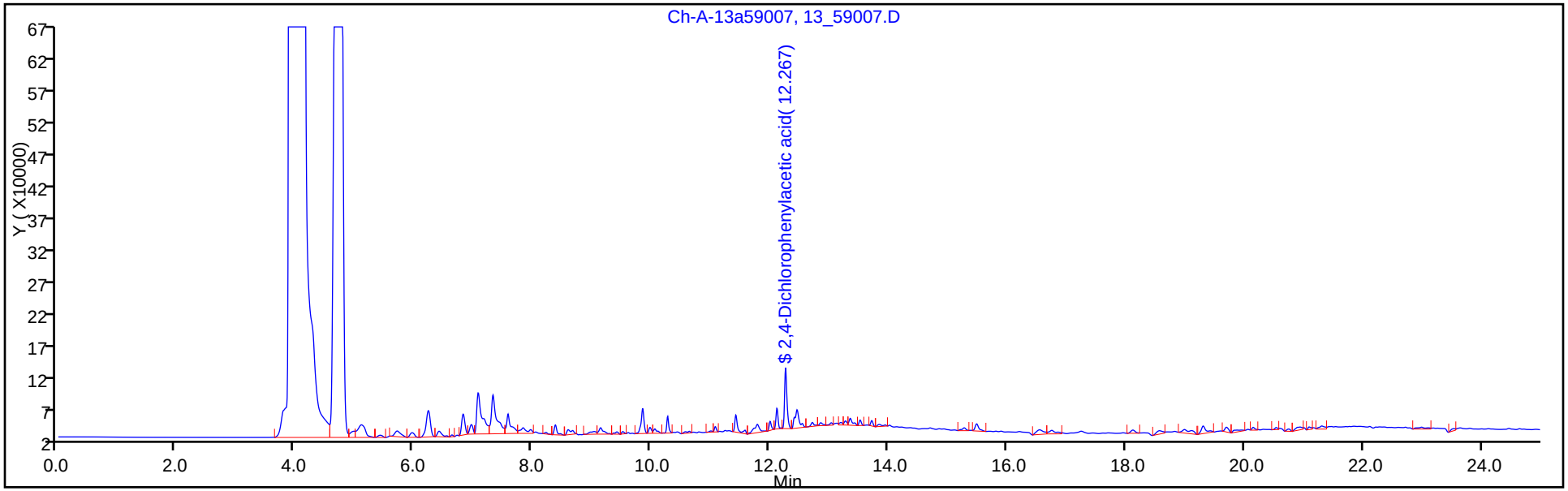
Report Date: 12-May-2014 13:56:11 Chrom Revision: 2.2 14-Apr-2014 13:40:08

TestAmerica Buffalo

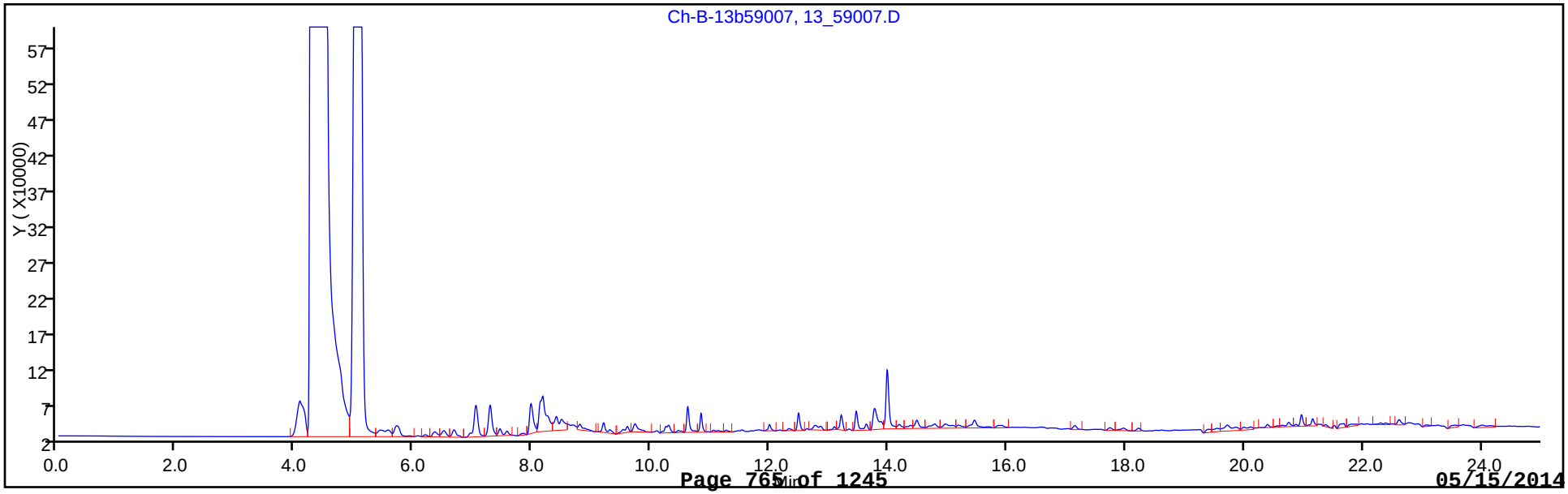
Data File: \\Bufchrom\ChromData\HP5890-13\20140509-31952.b\13_59007.D

Injection Date:	12-May-2014 13:36:29	Instrument ID:	HP5890-13	Operator ID:	buftchrom
Lims ID:	480-58807-B-1-H	Lab Sample ID:	480-58807-1	Worklist Smp#:	7
Client ID:	P1-1(Sed)				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8151-13	Limit Group:	GC - 8151A - ICAL		

Column: RTX-CLPI (0.32 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-CLPII (0.32 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Manual Integration/User Assign Peak Report

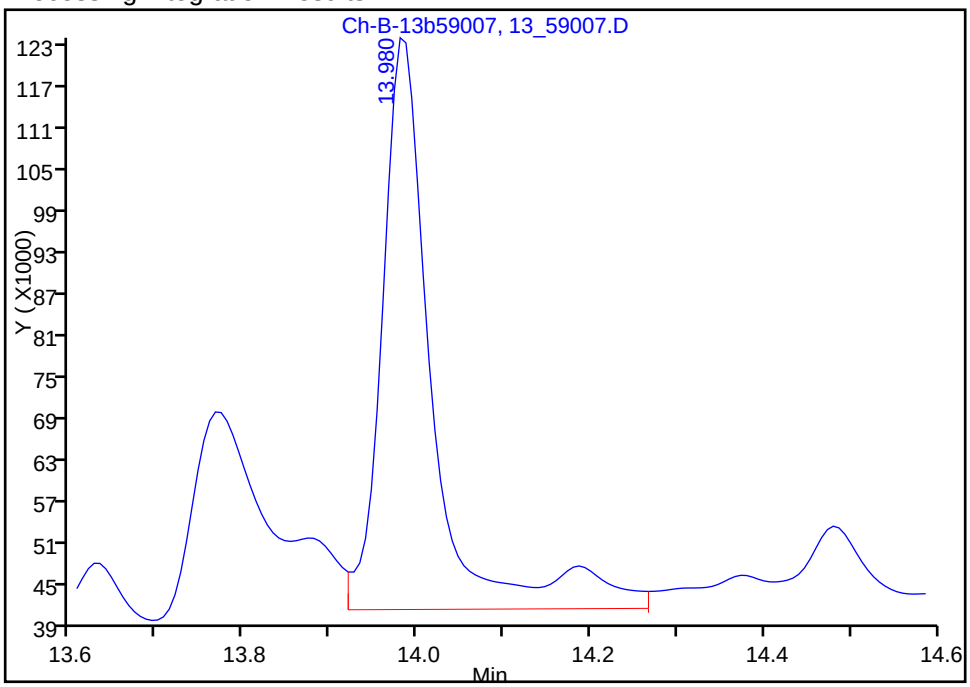
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5890-13\20140509-31952.b\13_59007.D				
Injection Date:	12-May-2014 13:36:29	Instrument ID:	HP5890-13		
Lims ID:	480-58807-B-1-H	Lab Sample ID:	480-58807-1		
Client ID:	P1-1(Sed)				
Operator ID:	buftchrom	ALS Bottle#:	0	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8151-13	Limit Group:	GC - 8151A - ICAL		
Column:	RTX-CLPII (0.32 mm)	Detector	Ch-B-13b01239		

$ 1 2,4-Dichlorophenylacetic acid, CAS: 19719-28-9

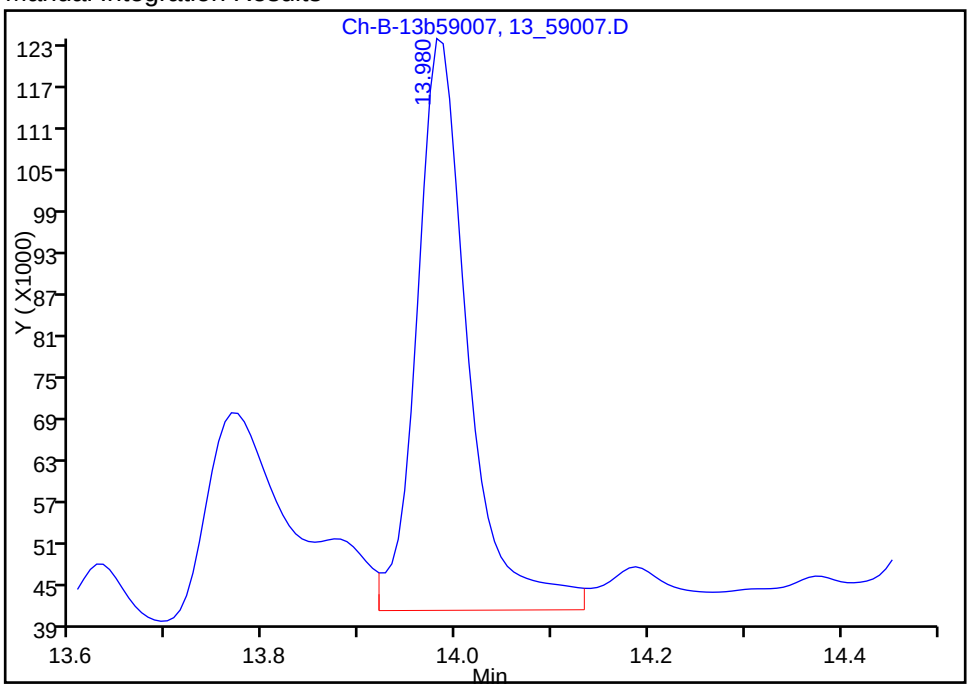
Processing Integration Results

RT: 13.98
Response: 334248
Amount: 0.217322



Manual Integration Results

RT: 13.98
Response: 302743
Amount: 0.193914



Reviewer: RudzG, 12-May-2014 13:54:49
Audit Action: Split an Integrated Peak
Audit Reason: Split Peak

FORM I
HERBICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-58807-1

SDG No.:

Client Sample ID: P1-2(Sed) | Lab Sample ID: 480-58807-2

Matrix: Solid (TCLP) | Lab File ID: 13_59008.D

Analysis Method: 8151 | Date Collected: 04/25/2014 00:00

Extraction Method: 8151A | Date Extracted: 05/08/2014 06:41

Sample wt/vol: 250(mL) | Date Analyzed: 05/12/2014 14:06

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RTX-CLPI ID: 0.32(mm)

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

Analysis Batch No.: 181242 | Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
94-75-7	2,4-D	ND		0.0020	0.00040
93-72-1	Silvex (2,4,5-TP)	ND		0.0020	0.00036

CAS NO.	SURROGATE	%REC	Q	LIMITS
19719-28-9	2,4-Dichlorophenylacetic acid	36	X	40-135

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5890-13\20140509-31952.b\13_59008.D
Lims ID: 480-58807-C-2-H Lab Sample ID: 480-58807-2
Client ID: P1-2(Sed)
Sample Type: Client
Inject. Date: 12-May-2014 14:06:05 ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: Name: 480-58807-C-2-H
Misc. Info.: Study: 480-0031952-008 Channel B: I/F Serial#, 4087270795
Operator ID: buftchrom Instrument ID: HP5890-13

Method: \\Bufchrom\ChromData\HP5890-13\20140509-31952.b\8151-13.m
Limit Group: GC - 8151A - ICAL
Last Update: 12-May-2014 13:56:04 Calib Date: 08-Apr-2014 20:10:39
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5890-13\20140405-30802.b\13_57010.D

Column 1 : RTX-CLPI (0.32 mm) Det: Ch-A-13A01239
Column 2 : RTX-CLPII (0.32 mm) Det: Ch-B-13b01239
Process Host: XAWRK049

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Flags
$ 1 2,4-Dichlorophenylacetic acid						
1	12.267	12.273	-0.006	274148	0.1794	
2	13.980	13.987	-0.007	310258	0.1995	
					RPD = 10.57	

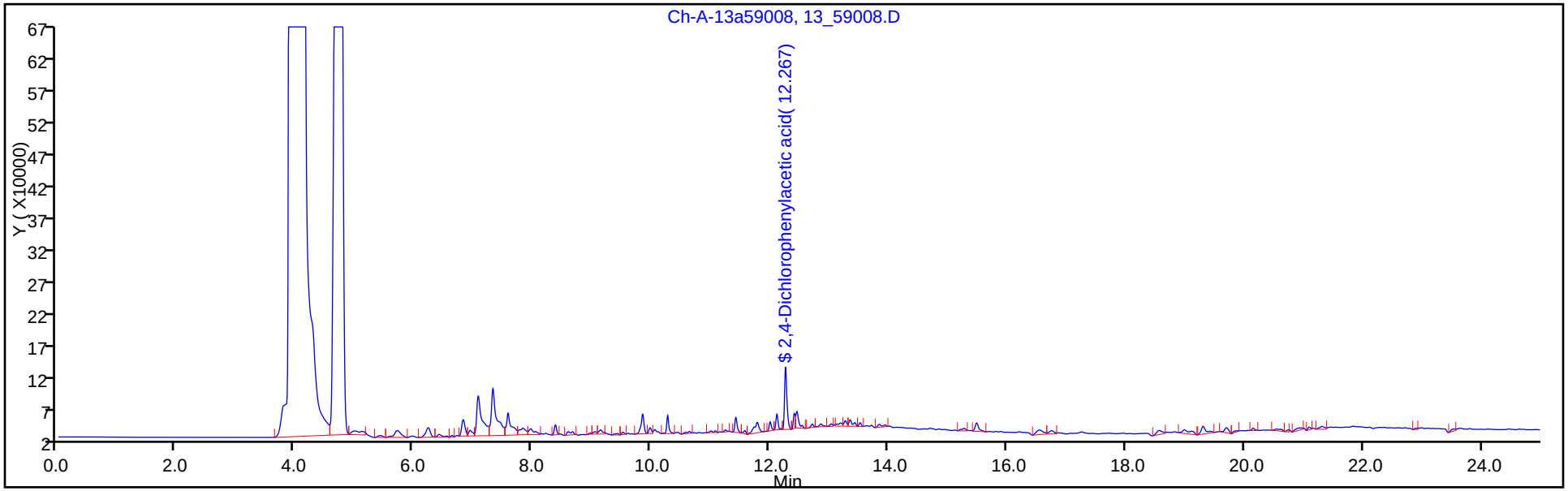
Report Date: 12-May-2014 13:56:11 Chrom Revision: 2.2 14-Apr-2014 13:40:08

TestAmerica Buffalo

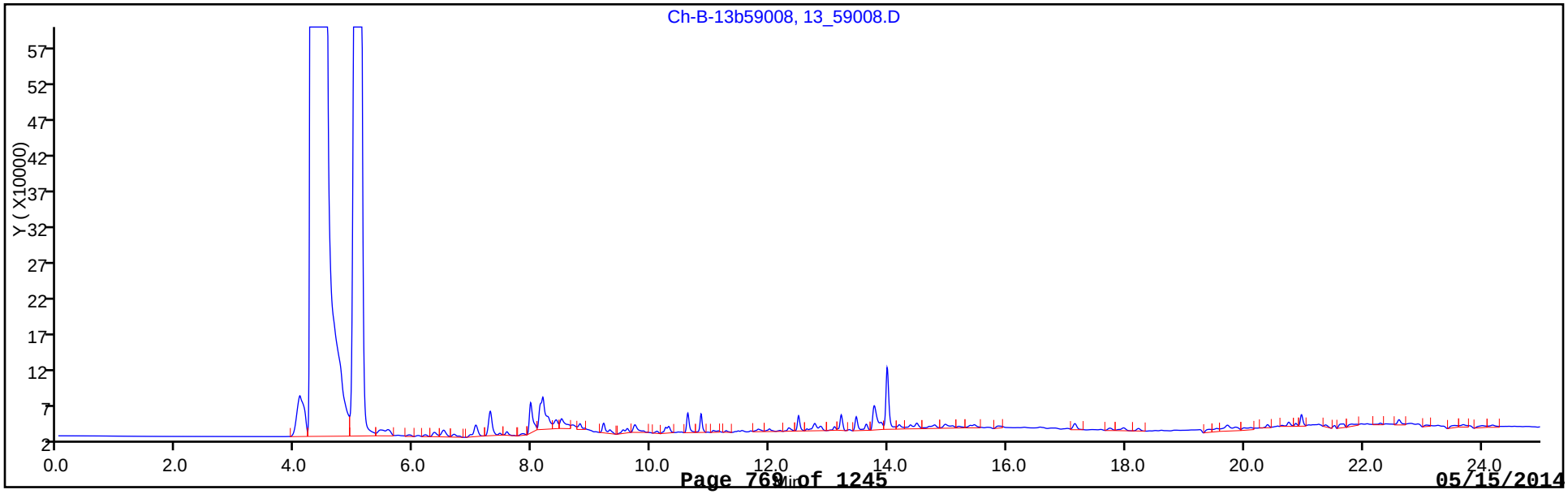
Data File: \\Bufchrom\ChromData\HP5890-13\20140509-31952.b\13_59008.D

Injection Date:	12-May-2014 14:06:05	Instrument ID:	HP5890-13	Operator ID:	buftchrom
Lims ID:	480-58807-C-2-H	Lab Sample ID:	480-58807-2	Worklist Smp#:	8
Client ID:	P1-2(Sed)				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8151-13	Limit Group:	GC - 8151A - ICAL		

Column: RTX-CLPI (0.32 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-CLPII (0.32 mm) Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
HERBICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-58807-1

SDG No.:

Client Sample ID: P1-2(Sed) | Lab Sample ID: 480-58807-2

Matrix: Solid (TCLP) | Lab File ID: 13_59008.D

Analysis Method: 8151 | Date Collected: 04/25/2014 00:00

Extraction Method: 8151A | Date Extracted: 05/08/2014 06:41

Sample wt/vol: 250(mL) | Date Analyzed: 05/12/2014 14:06

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RTX-CLPII ID: 0.32(mm)

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

Analysis Batch No.: 181242 | Units: mg/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
19719-28-9	2,4-Dichlorophenylacetic acid	40		40-135

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5890-13\20140509-31952.b\13_59008.D
Lims ID: 480-58807-C-2-H Lab Sample ID: 480-58807-2
Client ID: P1-2(Sed)
Sample Type: Client
Inject. Date: 12-May-2014 14:06:05 ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: Name: 480-58807-C-2-H
Misc. Info.: Study: 480-0031952-008 Channel B: I/F Serial#, 4087270795
Operator ID: buftchrom Instrument ID: HP5890-13

Method: \\Bufchrom\ChromData\HP5890-13\20140509-31952.b\8151-13.m
Limit Group: GC - 8151A - ICAL
Last Update: 12-May-2014 13:56:04 Calib Date: 08-Apr-2014 20:10:39
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5890-13\20140405-30802.b\13_57010.D

Column 1 : RTX-CLPI (0.32 mm) Det: Ch-A-13A01239
Column 2 : RTX-CLPII (0.32 mm) Det: Ch-B-13b01239
Process Host: XAWRK049

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Flags
$ 1 2,4-Dichlorophenylacetic acid						
1	12.267	12.273	-0.006	274148	0.1794	
2	13.980	13.987	-0.007	310258	0.1995	
					RPD = 10.57	

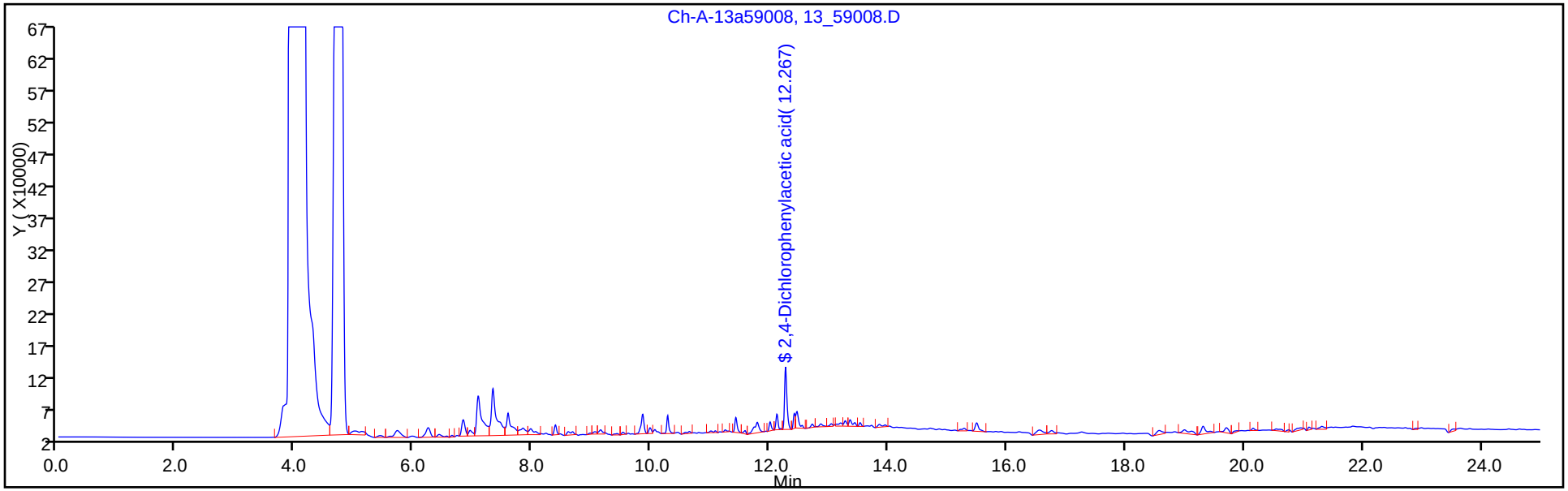
Report Date: 12-May-2014 13:56:11 Chrom Revision: 2.2 14-Apr-2014 13:40:08

TestAmerica Buffalo

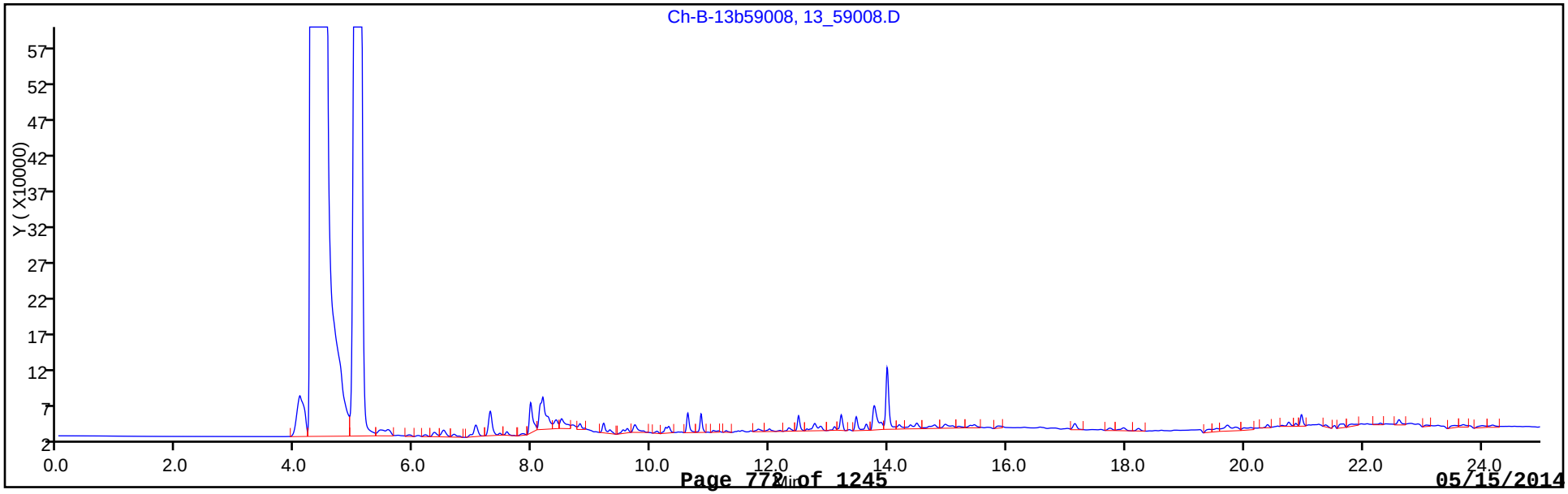
Data File: \\Bufchrom\ChromData\HP5890-13\20140509-31952.b\13_59008.D

Injection Date:	12-May-2014 14:06:05	Instrument ID:	HP5890-13	Operator ID:	buftchrom
Lims ID:	480-58807-C-2-H	Lab Sample ID:	480-58807-2	Worklist Smp#:	8
Client ID:	P1-2(Sed)				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8151-13	Limit Group:	GC - 8151A - ICAL		

Column: RTX-CLPI (0.32 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-CLPII (0.32 mm) Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
HERBICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1

SDG No.:

Client Sample ID: P2-1(Sed) Lab Sample ID: 480-58807-3

Matrix: Solid (TCLP) Lab File ID: 13_59009.D

Analysis Method: 8151 Date Collected: 04/25/2014 00:00

Extraction Method: 8151A Date Extracted: 05/08/2014 06:41

Sample wt/vol: 250(mL) Date Analyzed: 05/12/2014 14:35

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: RTX-CLPI ID: 0.32(mm)

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

Analysis Batch No.: 181242 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
94-75-7	2,4-D	ND		0.0020	0.00040
93-72-1	Silvex (2,4,5-TP)	ND		0.0020	0.00036

CAS NO.	SURROGATE	%REC	Q	LIMITS
19719-28-9	2,4-Dichlorophenylacetic acid	31	X	40-135

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5890-13\20140509-31952.b\13_59009.D
Lims ID: 480-58807-B-3-J Lab Sample ID: 480-58807-3
Client ID: P2-1(Sed)
Sample Type: Client
Inject. Date: 12-May-2014 14:35:44 ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: Name: 480-58807-B-3-J
Misc. Info.: Study: 480-0031952-009 Channel B: I/F Serial#, 4087270795
Operator ID: buftchrom Instrument ID: HP5890-13

Method: \\Bufchrom\ChromData\HP5890-13\20140509-31952.b\8151-13.m
Limit Group: GC - 8151A - ICAL
Last Update: 12-May-2014 13:56:04 Calib Date: 08-Apr-2014 20:10:39
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5890-13\20140405-30802.b\13_57010.D

Column 1 : RTX-CLPI (0.32 mm) Det: Ch-A-13A01239
Column 2 : RTX-CLPII (0.32 mm) Det: Ch-B-13b01239
Process Host: XAWRK049

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Flags
$ 1 2,4-Dichlorophenylacetic acid						
1	12.267	12.273	-0.006	239312	0.1535	
2	13.980	13.987	-0.007	253876	0.1583	
					RPD = 3.04	

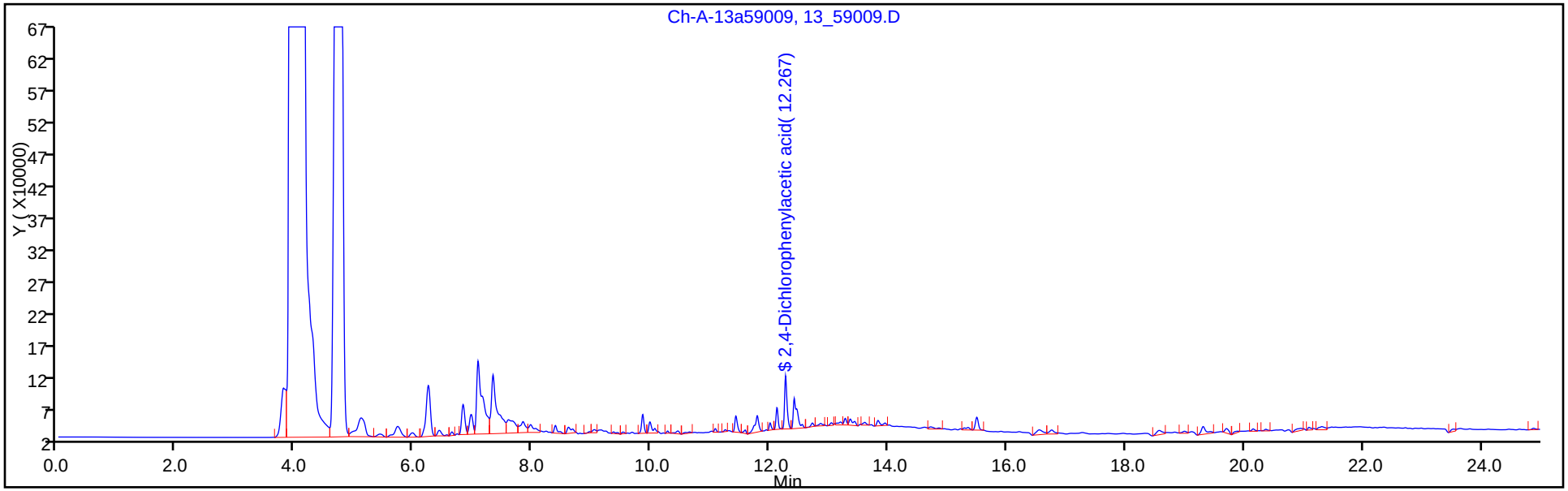
Report Date: 12-May-2014 13:56:12 Chrom Revision: 2.2 14-Apr-2014 13:40:08

TestAmerica Buffalo

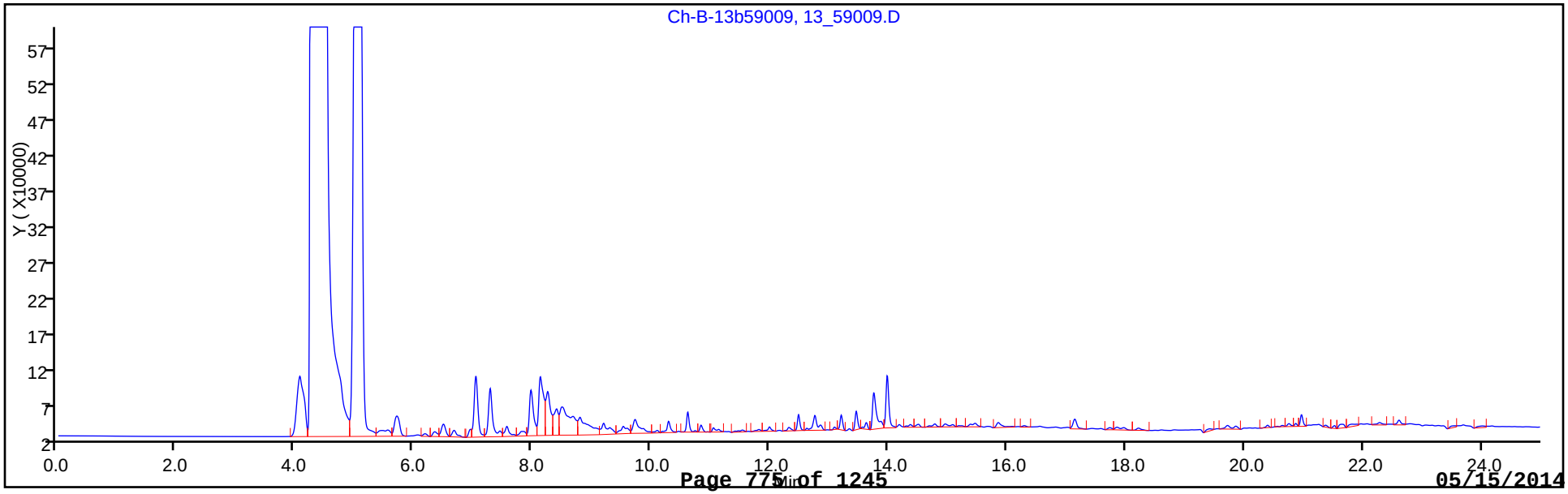
Data File: \\Bufchrom\ChromData\HP5890-13\20140509-31952.b\13_59009.D

Injection Date:	12-May-2014 14:35:44	Instrument ID:	HP5890-13	Operator ID:	buftchrom
Lims ID:	480-58807-B-3-J	Lab Sample ID:	480-58807-3	Worklist Smp#:	9
Client ID:	P2-1(Sed)				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8151-13	Limit Group:	GC - 8151A - ICAL		

Column: RTX-CLPI (0.32 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-CLPII (0.32 mm) Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
HERBICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1

SDG No.:

Client Sample ID: P2-1(Sed) Lab Sample ID: 480-58807-3

Matrix: Solid (TCLP) Lab File ID: 13_59009.D

Analysis Method: 8151 Date Collected: 04/25/2014 00:00

Extraction Method: 8151A Date Extracted: 05/08/2014 06:41

Sample wt/vol: 250(mL) Date Analyzed: 05/12/2014 14:35

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: RTX-CLPII ID: 0.32(mm)

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

Analysis Batch No.: 181242 Units: mg/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
19719-28-9	2,4-Dichlorophenylacetic acid	32	X	40-135

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5890-13\20140509-31952.b\13_59009.D
Lims ID: 480-58807-B-3-J Lab Sample ID: 480-58807-3
Client ID: P2-1(Sed)
Sample Type: Client
Inject. Date: 12-May-2014 14:35:44 ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: Name: 480-58807-B-3-J
Misc. Info.: Study: 480-0031952-009 Channel B: I/F Serial#, 4087270795
Operator ID: buftchrom Instrument ID: HP5890-13

Method: \\Bufchrom\ChromData\HP5890-13\20140509-31952.b\8151-13.m
Limit Group: GC - 8151A - ICAL
Last Update: 12-May-2014 13:56:04 Calib Date: 08-Apr-2014 20:10:39
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5890-13\20140405-30802.b\13_57010.D

Column 1 : RTX-CLPI (0.32 mm) Det: Ch-A-13A01239
Column 2 : RTX-CLPII (0.32 mm) Det: Ch-B-13b01239
Process Host: XAWRK049

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Flags
$ 1 2,4-Dichlorophenylacetic acid						
1	12.267	12.273	-0.006	239312	0.1535	
2	13.980	13.987	-0.007	253876	0.1583	
					RPD = 3.04	

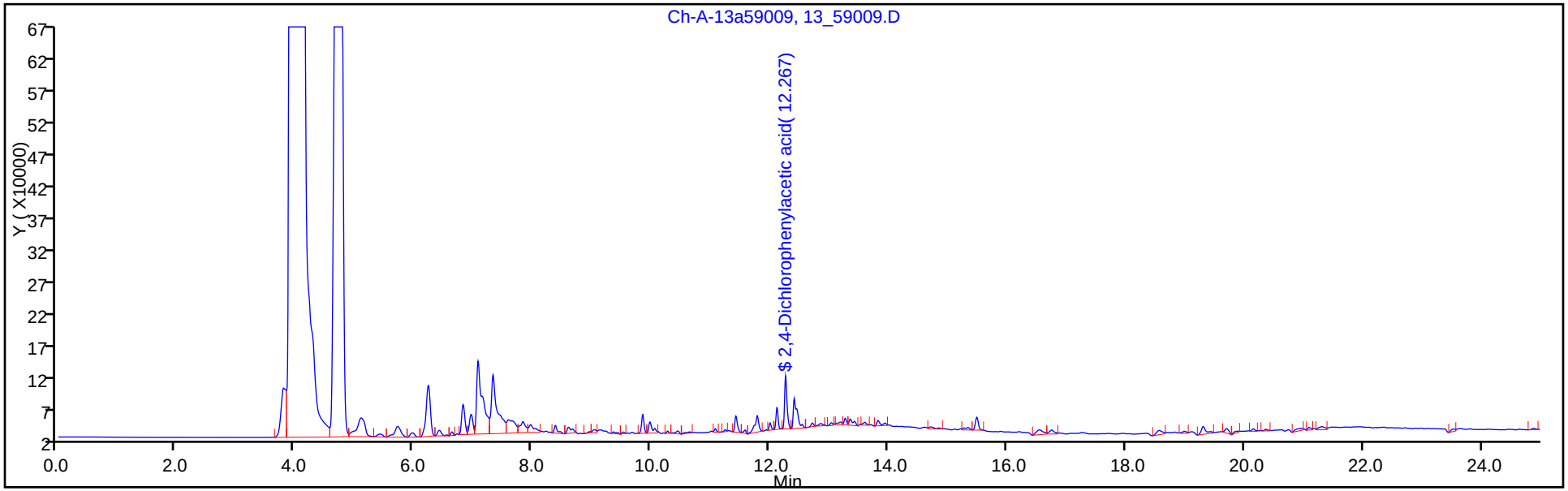
Report Date: 12-May-2014 13:56:12 Chrom Revision: 2.2 14-Apr-2014 13:40:08

TestAmerica Buffalo

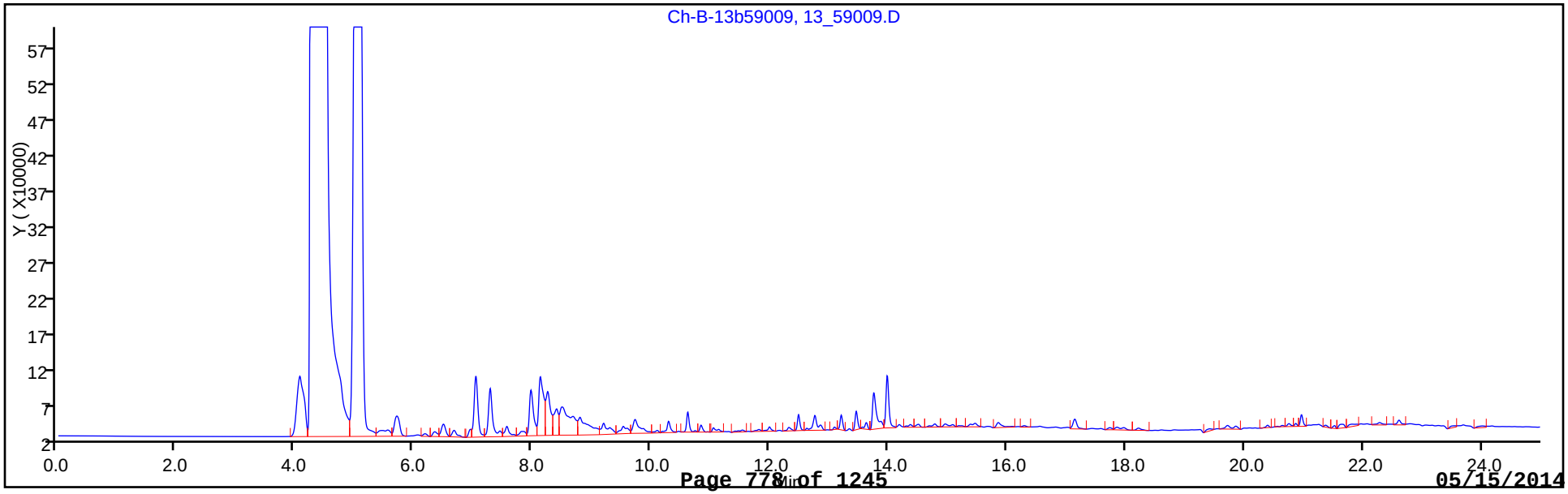
Data File: \\Bufchrom\ChromData\HP5890-13\20140509-31952.b\13_59009.D

Injection Date:	12-May-2014 14:35:44	Instrument ID:	HP5890-13	Operator ID:	buftchrom
Lims ID:	480-58807-B-3-J	Lab Sample ID:	480-58807-3	Worklist Smp#:	9
Client ID:	P2-1(Sed)				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8151-13	Limit Group:	GC - 8151A - ICAL		

Column: RTX-CLPI (0.32 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-CLPII (0.32 mm) Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
HERBICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-58807-1

SDG No.:

Client Sample ID: P2-2(Sed) | Lab Sample ID: 480-58807-4

Matrix: Solid (TCLP) | Lab File ID: 13_59010.D

Analysis Method: 8151 | Date Collected: 04/25/2014 00:00

Extraction Method: 8151A | Date Extracted: 05/08/2014 06:41

Sample wt/vol: 250(mL) | Date Analyzed: 05/12/2014 15:05

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RTX-CLPI ID: 0.32(mm)

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

Analysis Batch No.: 181242 | Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
94-75-7	2,4-D	ND		0.0020	0.00040
93-72-1	Silvex (2,4,5-TP)	ND		0.0020	0.00036

CAS NO.	SURROGATE	%REC	Q	LIMITS
19719-28-9	2,4-Dichlorophenylacetic acid	31	X	40-135

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5890-13\20140509-31952.b\13_59010.D
Lims ID: 480-58807-C-4-J Lab Sample ID: 480-58807-4
Client ID: P2-2(Sed)
Sample Type: Client
Inject. Date: 12-May-2014 15:05:21 ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: Name: 480-58807-C-4-J
Misc. Info.: Study: 480-0031952-010 Channel B: I/F Serial#, 4087270795
Operator ID: buftchrom Instrument ID: HP5890-13

Method: \\Bufchrom\ChromData\HP5890-13\20140509-31952.b\8151-13.m
Limit Group: GC - 8151A - ICAL
Last Update: 12-May-2014 13:56:04 Calib Date: 08-Apr-2014 20:10:39
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5890-13\20140405-30802.b\13_57010.D

Column 1 : RTX-CLPI (0.32 mm) Det: Ch-A-13A01239
Column 2 : RTX-CLPII (0.32 mm) Det: Ch-B-13b01239
Process Host: XAWRK049

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Flags
$ 1 2,4-Dichlorophenylacetic acid						
1	12.267	12.273	-0.006	241802	0.1554	
2	13.980	13.987	-0.007	280331	0.1775	
					RPD = 13.27	

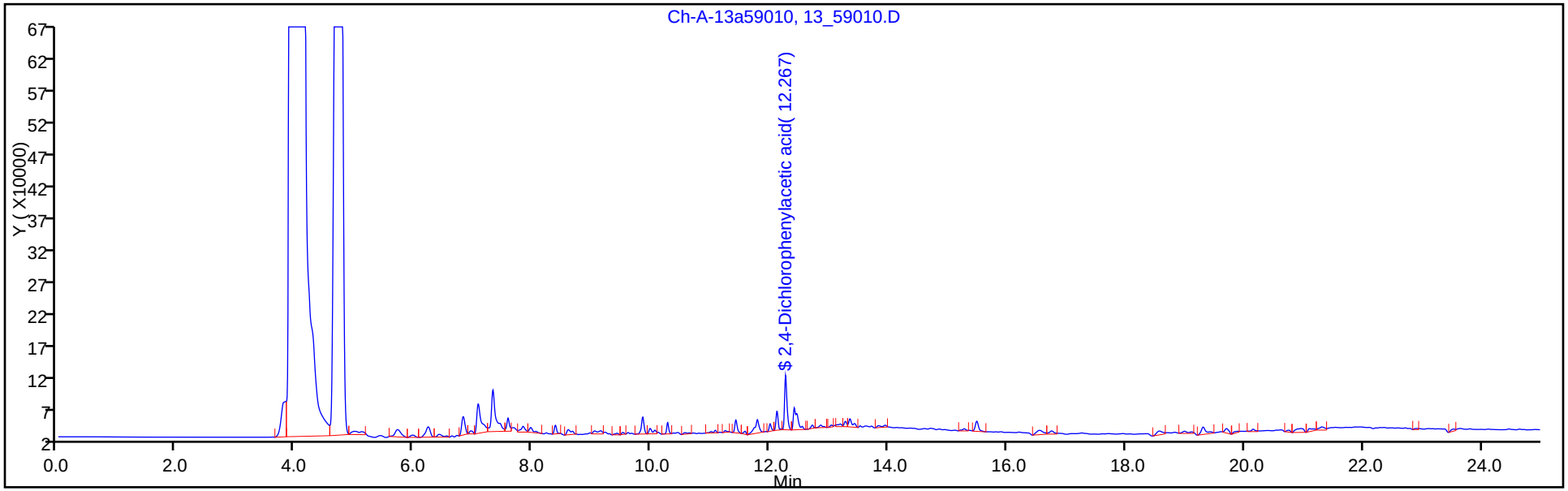
Report Date: 12-May-2014 13:56:13 Chrom Revision: 2.2 14-Apr-2014 13:40:08

TestAmerica Buffalo

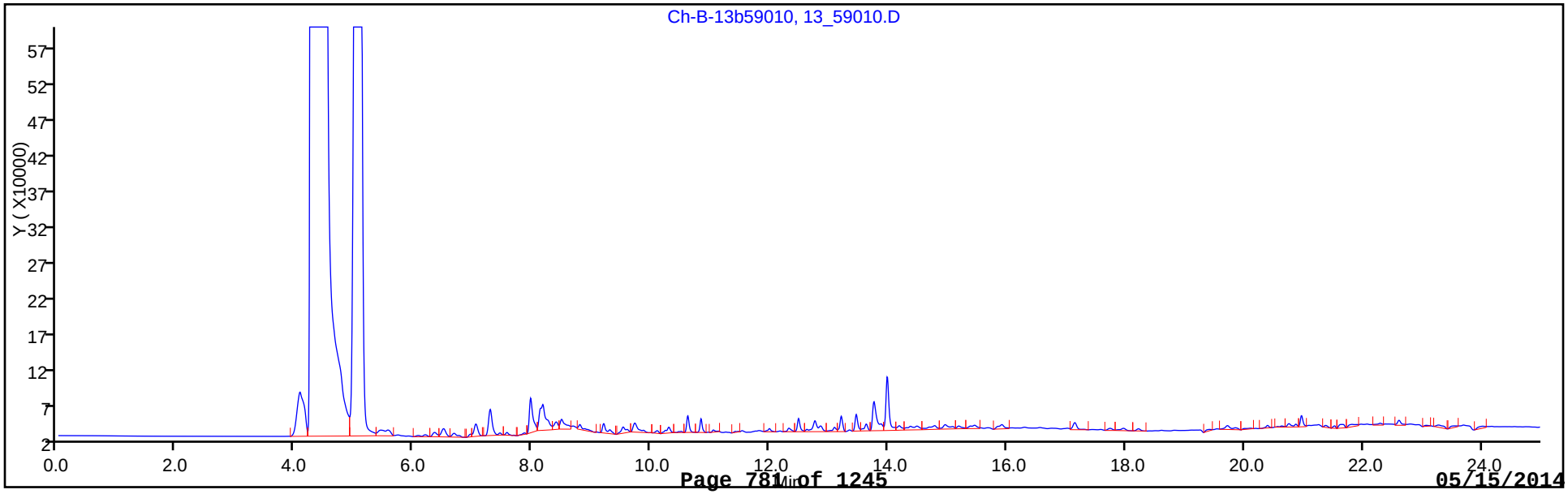
Data File: \\Bufchrom\ChromData\HP5890-13\20140509-31952.b\13_59010.D

Injection Date:	12-May-2014 15:05:21	Instrument ID:	HP5890-13	Operator ID:	buftchrom
Lims ID:	480-58807-C-4-J	Lab Sample ID:	480-58807-4	Worklist Smp#:	10
Client ID:	P2-2(Sed)				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8151-13	Limit Group:	GC - 8151A - ICAL		

Column: RTX-CLPI (0.32 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-CLPII (0.32 mm) Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
HERBICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1

SDG No.:

Client Sample ID: P2-2(Sed) Lab Sample ID: 480-58807-4

Matrix: Solid (TCLP) Lab File ID: 13_59010.D

Analysis Method: 8151 Date Collected: 04/25/2014 00:00

Extraction Method: 8151A Date Extracted: 05/08/2014 06:41

Sample wt/vol: 250(mL) Date Analyzed: 05/12/2014 15:05

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: RTX-CLPII ID: 0.32(mm)

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

Analysis Batch No.: 181242 Units: mg/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
19719-28-9	2,4-Dichlorophenylacetic acid	35	X	40-135

TestAmerica Buffalo
Target Compound Quantitation Report

Data File:	\\Bufchrom\ChromData\HP5890-13\20140509-31952.b\13_59010.D				
Lims ID:	480-58807-C-4-J	Lab Sample ID:	480-58807-4		
Client ID:	P2-2(Sed)				
Sample Type:	Client				
Inject. Date:	12-May-2014 15:05:21	ALS Bottle#:	0	Worklist Smp#:	10
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	#: Name: 480-58807-C-4-J				
Misc. Info.:	Study: 480-0031952-010 Channel B: I/F Serial#, 4087270795				
Operator ID:	buftchrom	Instrument ID:	HP5890-13		
Method:	\\Bufchrom\ChromData\HP5890-13\20140509-31952.b\8151-13.m				
Limit Group:	GC - 8151A - ICAL				
Last Update:	12-May-2014 13:56:04	Calib Date:	08-Apr-2014 20:10:39		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\Bufchrom\ChromData\HP5890-13\20140405-30802.b\13_57010.D				
Column 1 :	RTX-CLPI (0.32 mm)		Det: Ch-A-13A01239		
Column 2 :	RTX-CLPII (0.32 mm)		Det: Ch-B-13b01239		
Process Host:	XAWRK049				

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Flags
$ 1 2,4-Dichlorophenylacetic acid						
1	12.267	12.273	-0.006	241802	0.1554	
2	13.980	13.987	-0.007	280331	0.1775	
					RPD = 13.27	

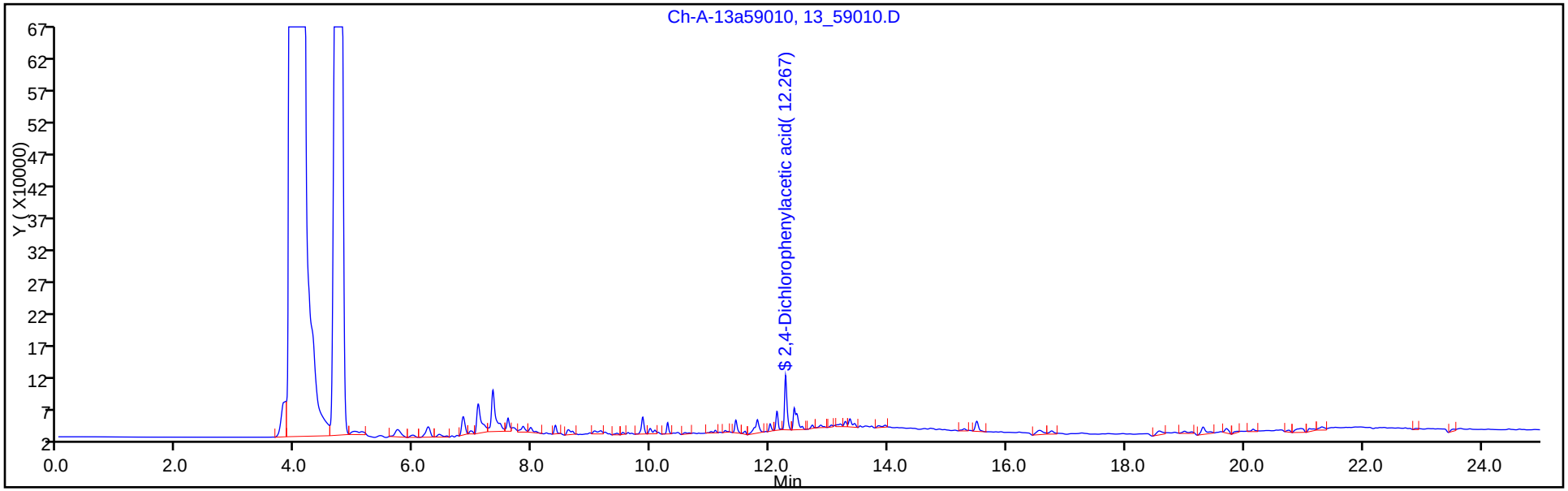
Report Date: 12-May-2014 13:56:13 Chrom Revision: 2.2 14-Apr-2014 13:40:08

TestAmerica Buffalo

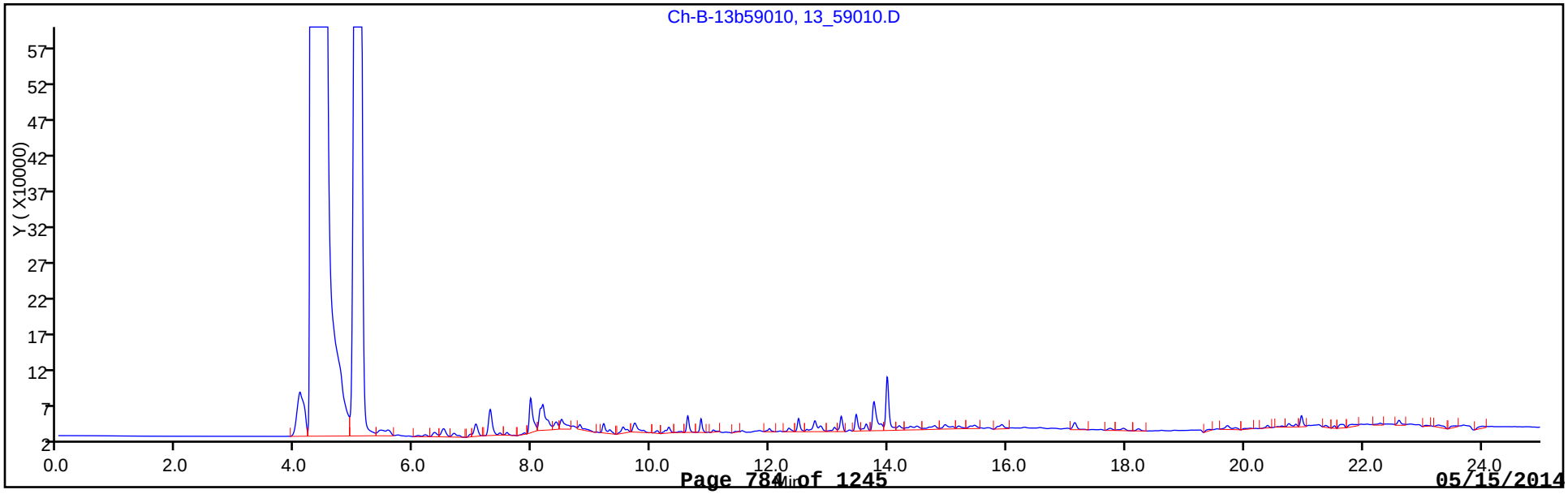
Data File: \\Bufchrom\ChromData\HP5890-13\20140509-31952.b\13_59010.D

Injection Date:	12-May-2014 15:05:21	Instrument ID:	HP5890-13	Operator ID:	buftchrom
Lims ID:	480-58807-C-4-J	Lab Sample ID:	480-58807-4	Worklist Smp#:	10
Client ID:	P2-2(Sed)				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8151-13	Limit Group:	GC - 8151A - ICAL		

Column: RTX-CLPI (0.32 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-CLPII (0.32 mm) Y Scaling: Method Defined: Set to Absolute Y Value



FORM VI
HERBICIDES INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1 Analy Batch No.: 174107

SDG No.:

Instrument ID: HP5890-13 GC Column: RTX-CLPI ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/08/2014 17:12 Calibration End Date: 04/08/2014 20:10 Calibration ID: 18010

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-174107/4	13_57004.D
Level 2	IC 480-174107/5	13_57005.D
Level 3	IC 480-174107/6	13_57006.D
Level 4	IC 480-174107/7	13_57007.D
Level 5	IC 480-174107/8	13_57008.D
Level 6	IC 480-174107/9	13_57009.D
Level 7	IC 480-174107/10	13_57010.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	LVL 7				RT WINDOW	AVG RT
Dalapon	6.047	6.047	6.047	6.047	6.047	6.047	6.047				6.017 - 6.077	6.047
Dichlorprop	13.527	13.527	13.520	13.513	13.507	13.500	13.500				13.497 - 13.557	13.513
2,4-D	13.900	13.880	13.867	13.853	13.840	13.833	13.833				13.870 - 13.930	13.858
Pentachlorophenol	14.327	14.320	14.320	14.320	14.320	+++++	+++++				14.297 - 14.357	14.321
Silvex (2,4,5-TP)	15.207	15.200	15.193	15.193	15.187	15.180	15.193				15.177 - 15.237	15.193
2,4,5-T	15.753	15.747	15.733	15.720	15.707	15.700	15.707				15.723 - 15.783	15.724
Picloram	19.220	19.207	19.187	19.173	19.153	19.140	19.133				19.190 - 19.250	19.173
Dinoseb	19.453	19.453	19.447	19.447	19.447	19.440	19.440				19.423 - 19.483	19.447
2,4-Dichlorophenylacetic acid	12.367	12.360	12.347	12.340	12.333	12.333	12.327				12.337 - 12.397	12.344

FORM VI
HERBICIDES INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1 Analy Batch No.: 174107

SDG No.:

Instrument ID: HP5890-13 GC Column: RTX-CLPI ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/08/2014 17:12 Calibration End Date: 04/08/2014 20:10 Calibration ID: 18010

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-174107/4	13_57004.D
Level 2	IC 480-174107/5	13_57005.D
Level 3	IC 480-174107/6	13_57006.D
Level 4	IC 480-174107/7	13_57007.D
Level 5	IC 480-174107/8	13_57008.D
Level 6	IC 480-174107/9	13_57009.D
Level 7	IC 480-174107/10	13_57010.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								
Dalapon	2216300 1511940	2108500 1322758	1862340 1158310	1631470	Qua	15345.4331	1486054.42	-344950.64						1.0000		0.9900
Dichlorprop	2204700 1524960	2157550 1280748	1957800 1082978	1720150	Qua	19231.2931	1486833.01	-425885.90						0.9990		0.9900
2,4-D	1979800 1781708	2157750 1514170	2128500 1320988	1927620	Qua	15052.0127	1743152.97	-440595.49						0.9990		0.9900
Pentachlorophenol	17770100 13419384	17546200 +++++	16178980 +++++	14495970	Lin1	63497.5540	13545416.8							0.9960		0.9900
Silvex (2,4,5-TP)	7457700 6106016	7373200 5265662	7051860 4270943	6530530	Qua	33050.4798	6315427.90	-2083865.9						1.0000		0.9900
2,4,5-T	6767700 6242204	6957650 5471068	6791580 4634665	6505220	Qua	21193.1301	6406739.85	-1799833.1						1.0000		0.9900
Picloram	3409600 4670072	3842500 4341634	4132760 3869783	4236440	Qua	-28546.388	4934640.02	-1037106.4						1.0000		0.9900
Dinoseb	7634900 4644632	7079000 3871038	6167660 3262059	5338130	Qua	70659.1615	4476084.51	-1293546.8						0.9990		0.9900
2,4-Dichlorophenylacetic acid	2107700 1546220	2223200 1277116	1997000 1083149	1759770	Qua	20952.4132	1488017.99	-429205.29						0.9990		0.9900

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

FORM VI
HERBICIDES INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1 Analy Batch No.: 174107

SDG No.:

Instrument ID: HP5890-13 GC Column: RTX-CLPI ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/08/2014 17:12 Calibration End Date: 04/08/2014 20:10 Calibration ID: 18010

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-174107/4	13_57004.D
Level 2	IC 480-174107/5	13_57005.D
Level 3	IC 480-174107/6	13_57006.D
Level 4	IC 480-174107/7	13_57007.D
Level 5	IC 480-174107/8	13_57008.D
Level 6	IC 480-174107/9	13_57009.D
Level 7	IC 480-174107/10	13_57010.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
Dalapon	Qua	22163 661379	42170 1158310	93117	163147	377985	0.0100 0.500	0.0200 1.00	0.0500	0.100	0.250
Dichlorprop	Qua	22047 640374	43151 1082978	97890	172015	381240	0.0100 0.500	0.0200 1.00	0.0500	0.100	0.250
2,4-D	Qua	19798 757085	43155 1320988	106425	192762	445427	0.0100 0.500	0.0200 1.00	0.0500	0.100	0.250
Pentachlorophenol	Lin1	177701 +++++	350924 +++++	808949	1449597	3354846	0.0100 +++++	0.0200 +++++	0.0500	0.100	0.250
Silvex (2,4,5-TP)	Qua	74577 2632831	147464 4270943	352593	653053	1526504	0.0100 0.500	0.0200 1.00	0.0500	0.100	0.250
2,4,5-T	Qua	67677 2735534	139153 4634665	339579	650522	1560551	0.0100 0.500	0.0200 1.00	0.0500	0.100	0.250
Picloram	Qua	34096 2170817	76850 3869783	206638	423644	1167518	0.0100 0.500	0.0200 1.00	0.0500	0.100	0.250
Dinoseb	Qua	76349 1935519	141580 3262059	308383	533813	1161158	0.0100 0.500	0.0200 1.00	0.0500	0.100	0.250
2,4-Dichlorophenylacetic acid	Qua	21077 638558	44464 1083149	99850	175977	386555	0.0100 0.500	0.0200 1.00	0.0500	0.100	0.250

Curve Type Legend:

Lin1 = Linear 1/conc
Qua = Quadratic

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5890-13\20140405-30802.b\13_57004.D
Lims ID: IC 0.01
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 08-Apr-2014 17:12:52 ALS Bottle#: 0 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: Name: IC 0.01
Misc. Info.: Study: 480-0030802-004 Channel B: I/F Serial#, 4087270795
Operator ID: buftchrom Instrument ID: HP5890-13
Sublist: chrom-8151-13*sub1

Method: \\Bufchrom\ChromData\HP5890-13\20140405-30802.b\8151-13.m
Limit Group: GC - 8151A - ICAL
Last Update: 09-Apr-2014 09:30:33 Calib Date: 08-Apr-2014 20:10:39
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5890-13\20140405-30802.b\13_57010.D

Column 1 : RTX-CLPI (0.32 mm) Det: Ch-A-13A01239
Column 2 : RTX-CLPII (0.32 mm) Det: Ch-B-13b01239
Process Host: XAWRK018

First Level Reviewer: RudzG Date: 09-Apr-2014 09:24:39

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	On-Col Amt ng/ul	Flags
$ 1 2,4-Dichlorophenylacetic acid						
1	12.367	12.367	0.0	21077	0.00008373	
2	14.053	14.053	0.0	24089	0.000363	
					RPD = 125.06	
2 Dalapon						
1	6.047	6.047	0.0	22163	0.004593	
2	6.733	6.733	0.0	20918	0.004789	
					RPD = 4.19	
3 Dichlorprop						
1	13.527	13.527	0.0	22047	0.001895	
2	15.620	15.620	0.0	23287	0.001776	
					RPD = 6.44	
4 2,4-D						
1	13.900	13.900	0.0	19798	0.002725	
2	16.320	16.320	0.0	24482	0.003233	
					RPD = 17.07	
5 Pentachlorophenol						
1	14.327	14.327	0.0	177701	0.008431	
2	17.580	17.580	0.0	179474	0.008773	
					RPD = 3.98	
6 Silvex (2,4,5-TP)						
1	15.207	15.207	0.0	74577	0.006590	
2	18.400	18.400	0.0	78405	0.005760	
					RPD = 13.44	
7 2,4,5-T						
1	15.753	15.753	0.0	67677	0.007270	
2	19.300	19.300	0.0	79433	0.006996	
					RPD = 3.85	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	On-Col Amt ng/ul	Flags
8 Picloram						M
1	19.220	19.220	0.0	34096	0.0127	
2	22.053	22.053	0.0	44971	0.0116	M
					RPD = 8.88	
9 Dinoseb						
1	19.453	19.453	0.0	76349	0.001272	
2	20.693	20.693	0.0	67015	0.001948	
					RPD = 42.00	

QC Flag Legend

Review Flags
M - Manually Integrated

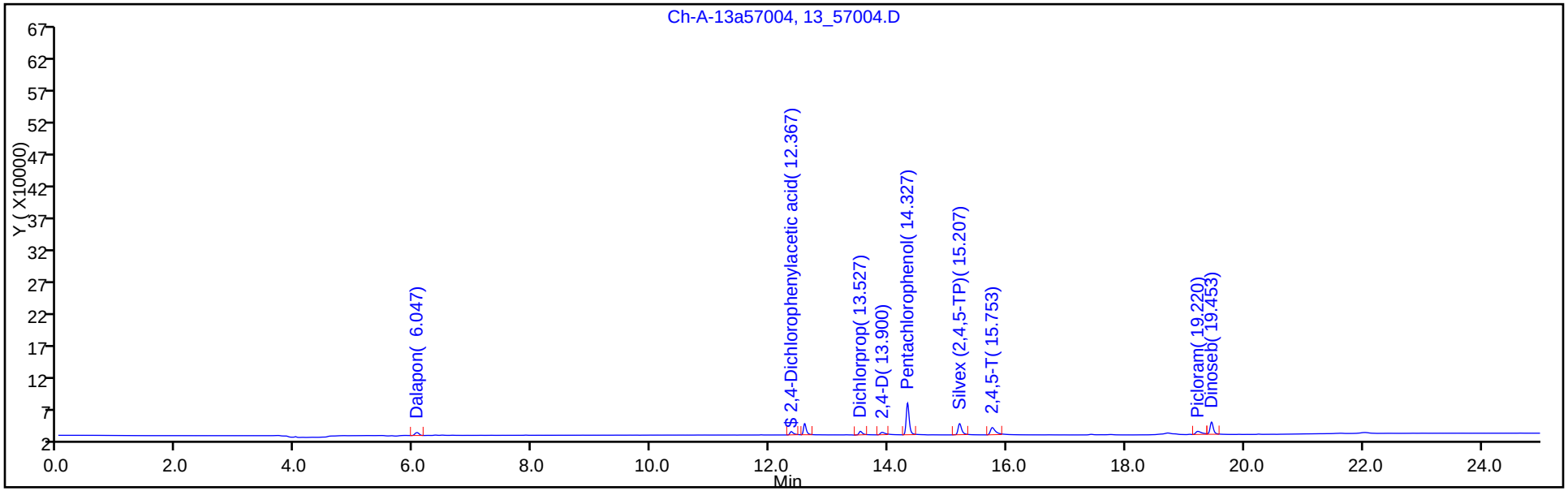
Report Date: 09-Apr-2014 09:30:33 Chrom Revision: 2.2 12-Mar-2014 11:19:24

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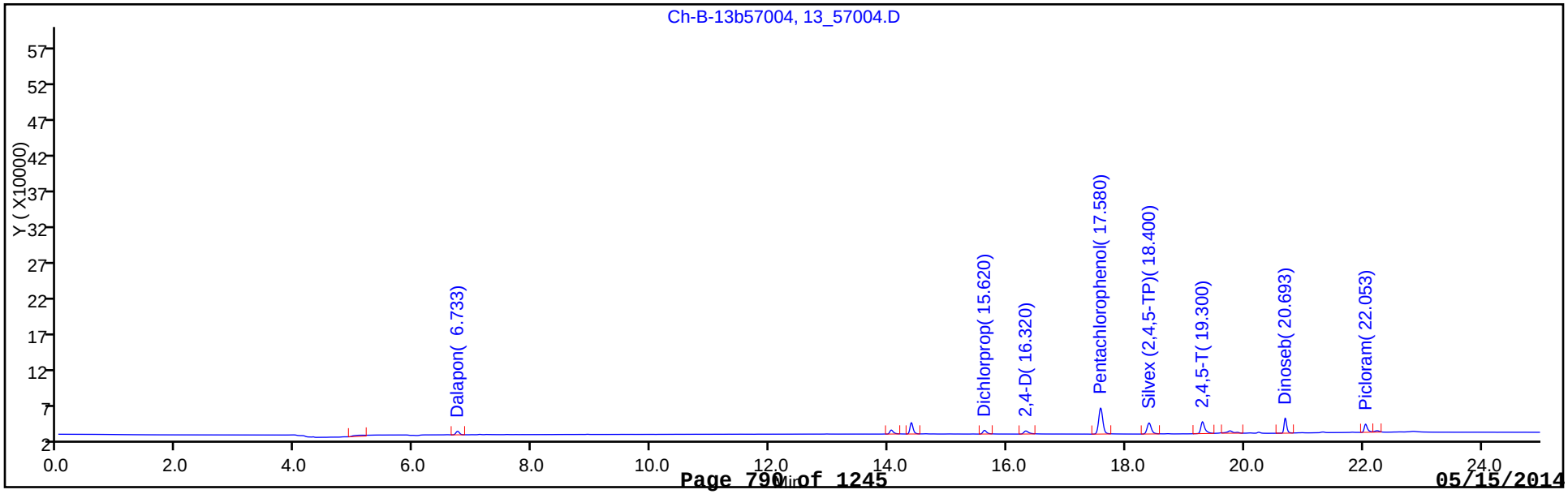
Data File: \\Bufchrom\ChromData\HP5890-13\20140405-30802.b\13_57004.D

Injection Date:	08-Apr-2014 17:12:52	Instrument ID:	HP5890-13	Operator ID:	buftchrom
Lims ID:	IC 0.01			Worklist Smp#:	4
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8151-13	Limit Group:	GC - 8151A - ICAL		

Column: RTX-CLPI (0.32 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-CLPII (0.32 mm) Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5890-13\20140405-30802.b\13_57005.D
Lims ID: IC 0.02
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 08-Apr-2014 17:42:33 ALS Bottle#: 0 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: Name: IC 0.02
Misc. Info.: Study: 480-0030802-005 Channel B: I/F Serial#, 4087270795
Operator ID: buftchrom Instrument ID: HP5890-13
Sublist: chrom-8151-13*sub1

Method: \\Bufchrom\ChromData\HP5890-13\20140405-30802.b\8151-13.m
Limit Group: GC - 8151A - ICAL
Last Update: 09-Apr-2014 09:30:34 Calib Date: 08-Apr-2014 20:10:39
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5890-13\20140405-30802.b\13_57010.D

Column 1 : RTX-CLPI (0.32 mm) Det: Ch-A-13A01239
Column 2 : RTX-CLPII (0.32 mm) Det: Ch-B-13b01239
Process Host: XAWRK018

First Level Reviewer: RudzG Date: 09-Apr-2014 09:24:55

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	On-Col Amt ng/ul	Flags
$ 1 2,4-Dichlorophenylacetic acid						
1	12.360	12.367	-0.007	44464	0.0159	
2	14.047	14.053	-0.006	46774	0.0153	
					RPD = 3.56	
2 Dalapon						
1	6.047	6.047	0.0	42170	0.0181	
2	6.733	6.733	0.0	38563	0.0176	
					RPD = 2.76	
3 Dichlorprop						
1	13.527	13.527	0.0	43151	0.0162	
2	15.620	15.620	0.0	45704	0.0164	
					RPD = 1.31	
4 2,4-D						
1	13.880	13.900	-0.020	43155	0.0162	
2	16.313	16.320	-0.007	49184	0.0169	
					RPD = 4.19	
5 Pentachlorophenol						
1	14.320	14.327	-0.007	350924	0.0212	
2	17.580	17.580	0.0	352986	0.0209	
					RPD = 1.33	
6 Silvex (2,4,5-TP)						
1	15.200	15.207	-0.007	147464	0.0182	
2	18.400	18.400	0.0	151760	0.0178	
					RPD = 2.48	
7 2,4,5-T						
1	15.747	15.753	-0.006	139153	0.0185	
2	19.293	19.300	-0.007	150629	0.0186	
					RPD = 0.52	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	On-Col Amt ng/ul	Flags
8 Picloram						
1	19.207	19.220	-0.013	76850	0.0215	
2	22.047	22.053	-0.006	89802	0.0211	
					RPD = 1.56	
9 Dinoseb						
1	19.453	19.453	0.0	141580	0.0159	
2	20.693	20.693	0.0	123441	0.0163	
					RPD = 2.15	

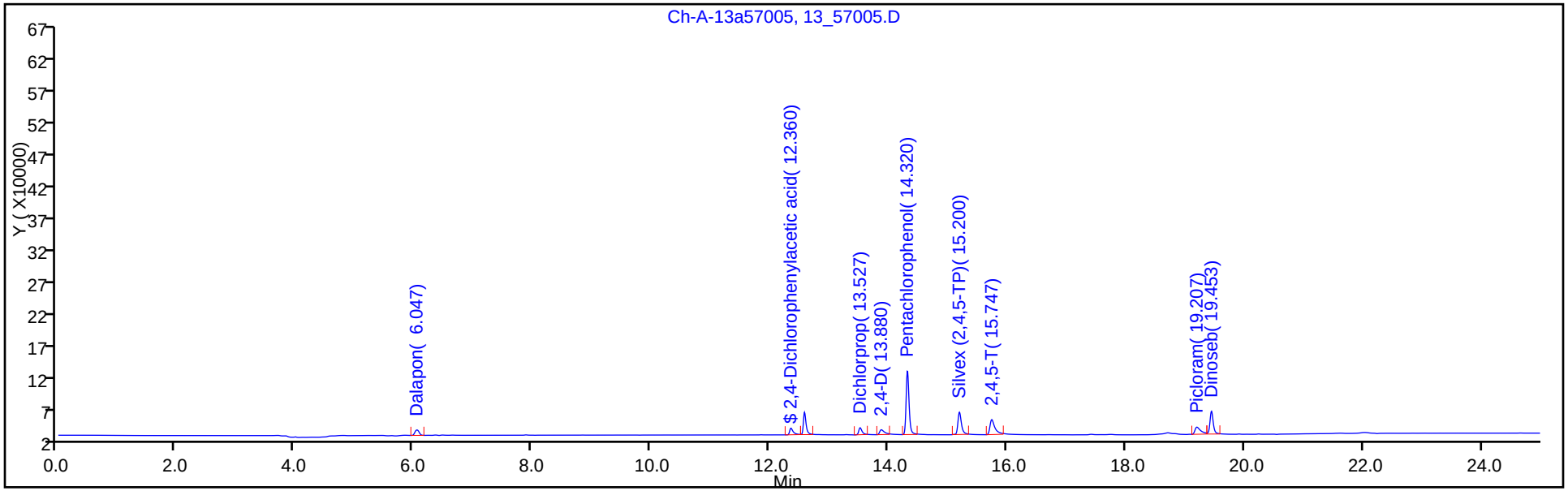
Report Date: 09-Apr-2014 09:30:34 Chrom Revision: 2.2 12-Mar-2014 11:19:24

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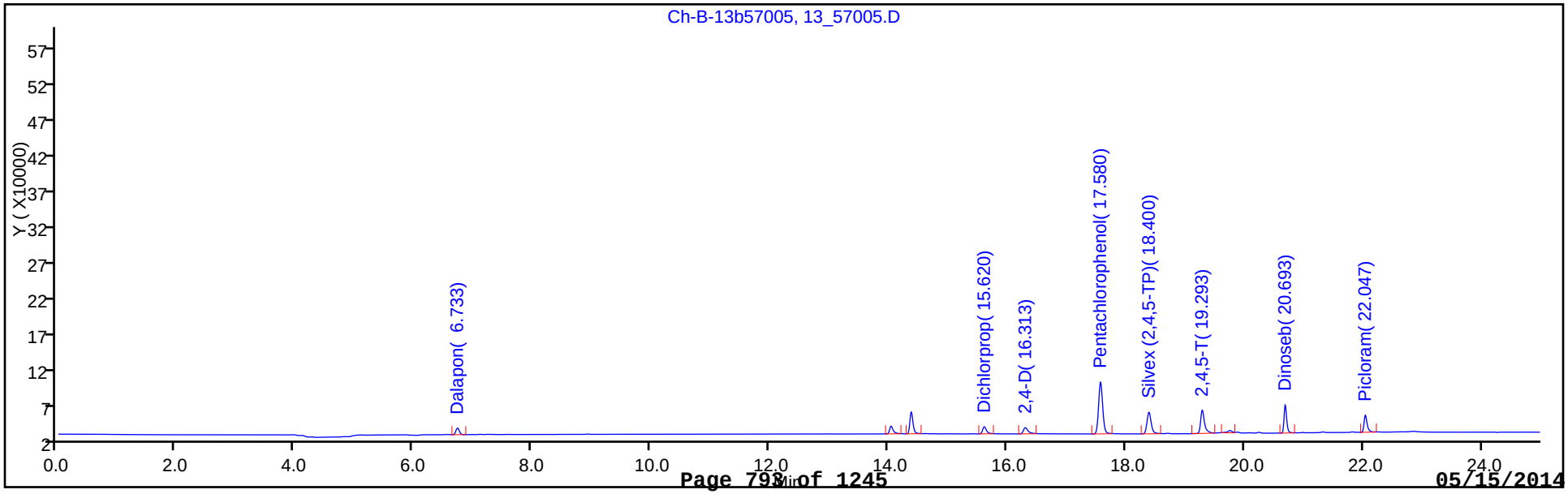
Data File: \\Bufchrom\ChromData\HP5890-13\20140405-30802.b\13_57005.D

Injection Date:	08-Apr-2014 17:42:33	Instrument ID:	HP5890-13	Operator ID:	buftchrom
Lims ID:	IC 0.02			Worklist Smp#:	5
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8151-13	Limit Group:	GC - 8151A - ICAL		

Column: RTX-CLPI (0.32 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-CLPII (0.32 mm) Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5890-13\20140405-30802.b\13_57006.D
Lims ID: IC 0.05
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 08-Apr-2014 18:12:10 ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: Name: IC 0.05
Misc. Info.: Study: 480-0030802-006 Channel B: I/F Serial#, 4087270795
Operator ID: buftchrom Instrument ID: HP5890-13
Sublist: chrom-8151-13*sub1

Method: \\Bufchrom\ChromData\HP5890-13\20140405-30802.b\8151-13.m
Limit Group: GC - 8151A - ICAL
Last Update: 09-Apr-2014 09:30:34 Calib Date: 08-Apr-2014 20:10:39
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5890-13\20140405-30802.b\13_57010.D

Column 1 : RTX-CLPI (0.32 mm) Det: Ch-A-13A01239
Column 2 : RTX-CLPII (0.32 mm) Det: Ch-B-13b01239
Process Host: XAWRK018

First Level Reviewer: RudzG Date: 09-Apr-2014 09:25:29

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	On-Col Amt ng/ul	Flags
$ 1 2,4-Dichlorophenylacetic acid						
1	12.347	12.367	-0.020	99850	0.0539	
2	14.040	14.053	-0.013	105783	0.0548	
					RPD = 1.79	
2 Dalapon						
1	6.047	6.047	0.0	93117	0.0530	
2	6.733	6.733	0.0	87198	0.0534	
					RPD = 0.86	
3 Dichlorprop						
1	13.520	13.527	-0.007	97890	0.0537	
2	15.613	15.620	-0.007	102442	0.0539	
					RPD = 0.30	
4 2,4-D						
1	13.867	13.900	-0.033	106425	0.0531	
2	16.300	16.320	-0.020	113310	0.0528	
					RPD = 0.66	
5 Pentachlorophenol						
1	14.320	14.327	-0.007	808949	0.0550	
2	17.580	17.580	0.0	825596	0.0541	
					RPD = 1.75	
6 Silvex (2,4,5-TP)						
1	15.193	15.207	-0.014	352593	0.0515	
2	18.393	18.400	-0.007	354147	0.0513	
					RPD = 0.27	
7 2,4,5-T						
1	15.733	15.753	-0.020	339579	0.0504	
2	19.293	19.300	-0.007	347428	0.0511	
					RPD = 1.43	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	On-Col Amt ng/ul	Flags
8 Picloram						
1	19.187	19.220	-0.033	206638	0.0481	
2	22.040	22.053	-0.013	222218	0.0494	
					RPD = 2.55	
9 Dinoseb						
1	19.447	19.453	-0.006	308383	0.0540	
2	20.693	20.693	0.0	268457	0.0536	
					RPD = 0.68	

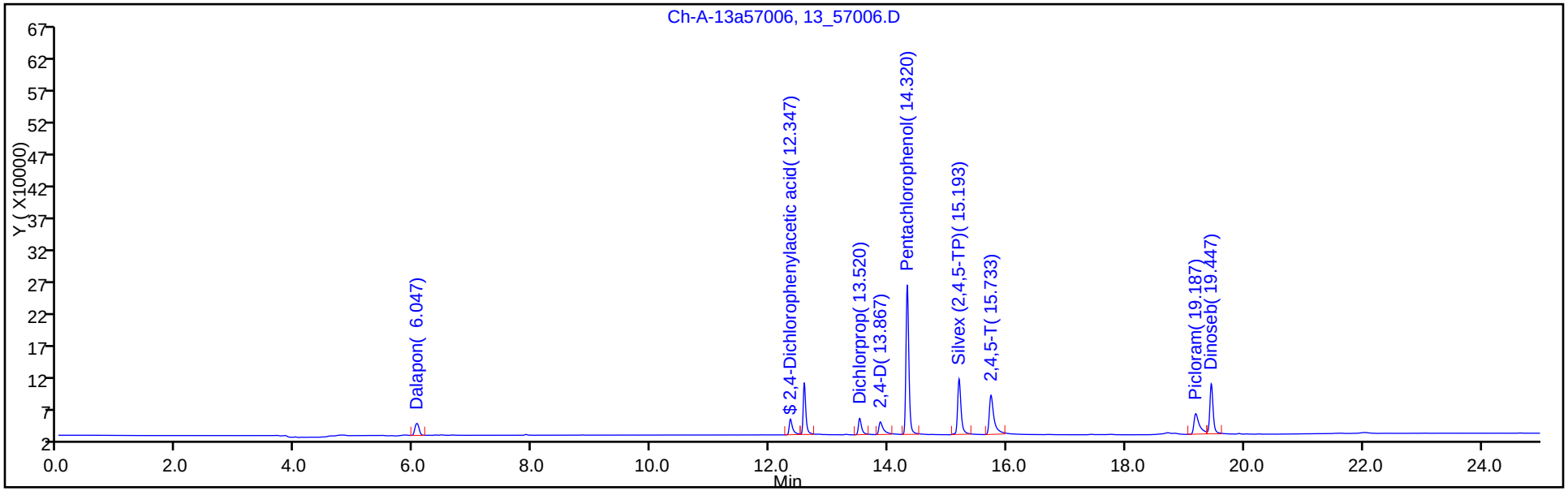
Report Date: 09-Apr-2014 09:30:35 Chrom Revision: 2.2 12-Mar-2014 11:19:24

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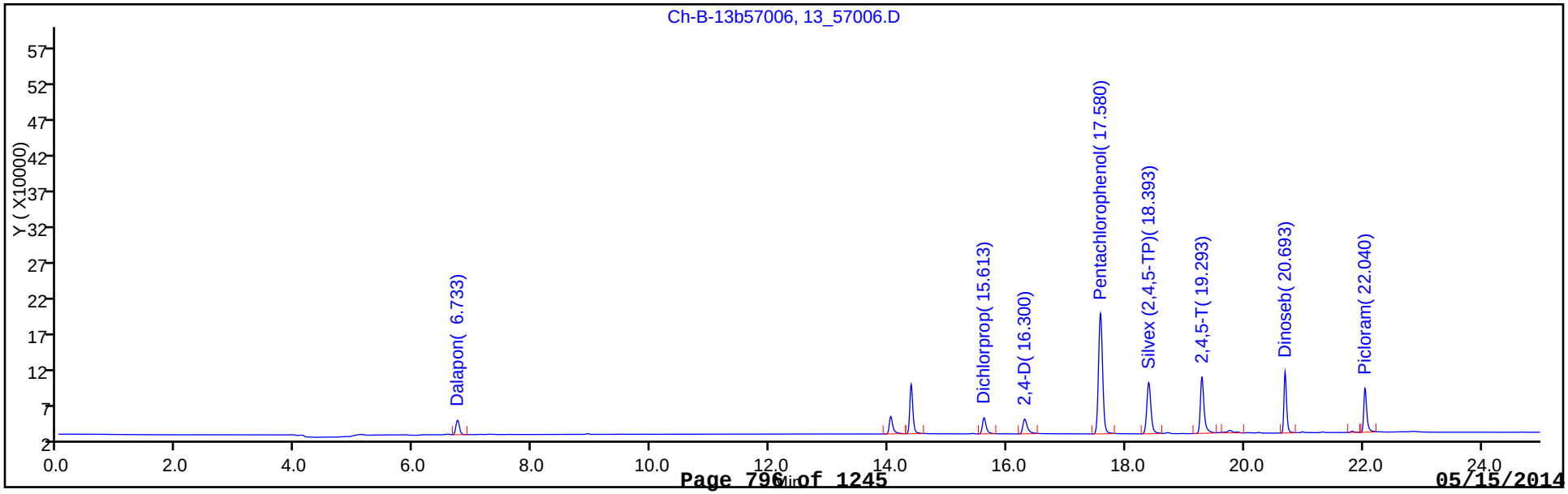
Data File: \\Bufchrom\ChromData\HP5890-13\20140405-30802.b\13_57006.D

Injection Date:	08-Apr-2014 18:12:10	Instrument ID:	HP5890-13	Operator ID:	buftchrom
Lims ID:	IC 0.05			Worklist Smp#:	6
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8151-13	Limit Group:	GC - 8151A - ICAL		

Column: RTX-CLPI (0.32 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-CLPII (0.32 mm) Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5890-13\20140405-30802.b\13_57007.D
Lims ID: IC 0.10
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 08-Apr-2014 18:41:50 ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name: IC 0.10
Misc. Info.: Study: 480-0030802-007 Channel B: I/F Serial#, 4087270795
Operator ID: buftchrom Instrument ID: HP5890-13
Sublist: chrom-8151-13*sub1

Method: \\Bufchrom\ChromData\HP5890-13\20140405-30802.b\8151-13.m
Limit Group: GC - 8151A - ICAL
Last Update: 09-Apr-2014 09:30:35 Calib Date: 08-Apr-2014 20:10:39
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5890-13\20140405-30802.b\13_57010.D

Column 1 : RTX-CLPI (0.32 mm) Det: Ch-A-13A01239
Column 2 : RTX-CLPII (0.32 mm) Det: Ch-B-13b01239
Process Host: XAWRK018

First Level Reviewer: RudzG Date: 09-Apr-2014 09:25:34

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	On-Col Amt ng/ul	Flags
$ 1 2,4-Dichlorophenylacetic acid						
1	12.340	12.347	-0.007	175977	0.1075	
2	14.040	14.040	0.0	181960	0.1072	
					RPD = 0.26	
2 Dalapon						
1	6.047	6.047	0.0	163147	0.1019	
2	6.733	6.733	0.0	152677	0.1026	
					RPD = 0.75	
3 Dichlorprop						
1	13.513	13.520	-0.007	172015	0.1060	
2	15.613	15.613	0.0	178688	0.1057	
					RPD = 0.29	
4 2,4-D						
1	13.853	13.867	-0.014	192762	0.1047	
2	16.293	16.300	-0.007	203837	0.1047	
					RPD = 0.03	
5 Pentachlorophenol						
1	14.320	14.320	0.0	1449597	0.1023	
2	17.580	17.580	0.0	1502534	0.1015	
					RPD = 0.77	
6 Silvex (2,4,5-TP)						
1	15.193	15.193	0.0	653053	0.1016	
2	18.393	18.393	0.0	652178	0.1018	
					RPD = 0.25	
7 2,4,5-T						
1	15.720	15.733	-0.013	650522	0.1011	
2	19.287	19.293	-0.006	642794	0.1012	
					RPD = 0.14	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	On-Col Amt ng/ul	Flags
8 Picloram						
1	19.173	19.187	-0.014	423644	0.0935	
2	22.040	22.040	0.0	431738	0.0950	
					RPD = 1.60	
9 Dinoseb						
1	19.447	19.447	0.0	533813	0.1068	
2	20.693	20.693	0.0	467713	0.1062	
					RPD = 0.53	

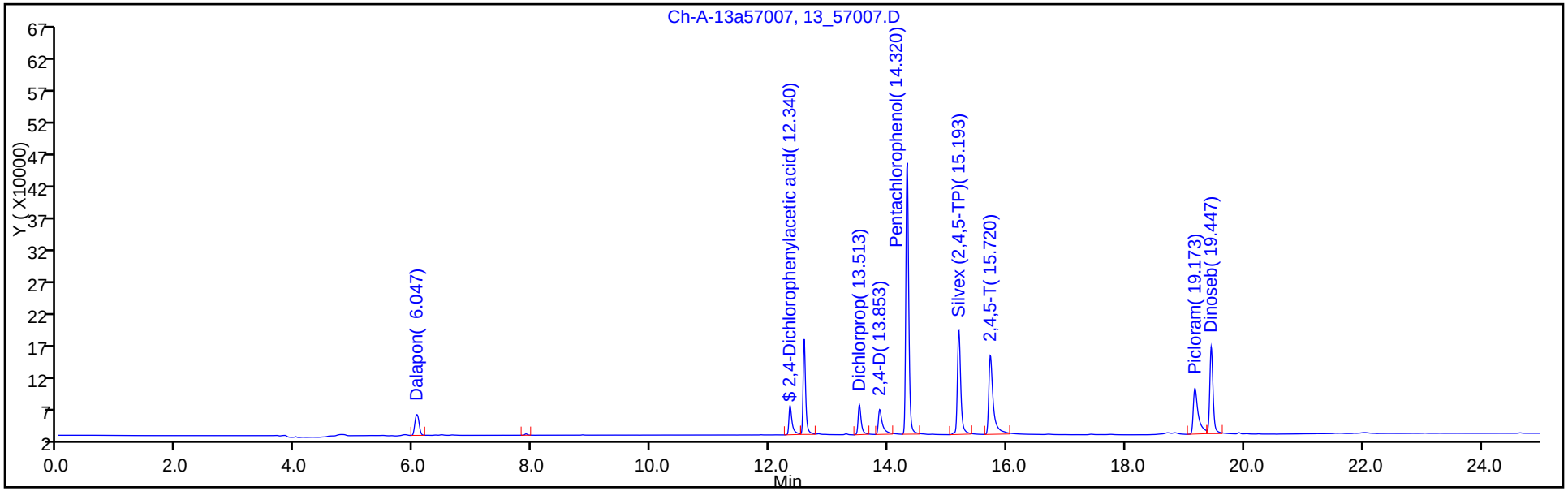
Report Date: 09-Apr-2014 09:30:35 Chrom Revision: 2.2 12-Mar-2014 11:19:24

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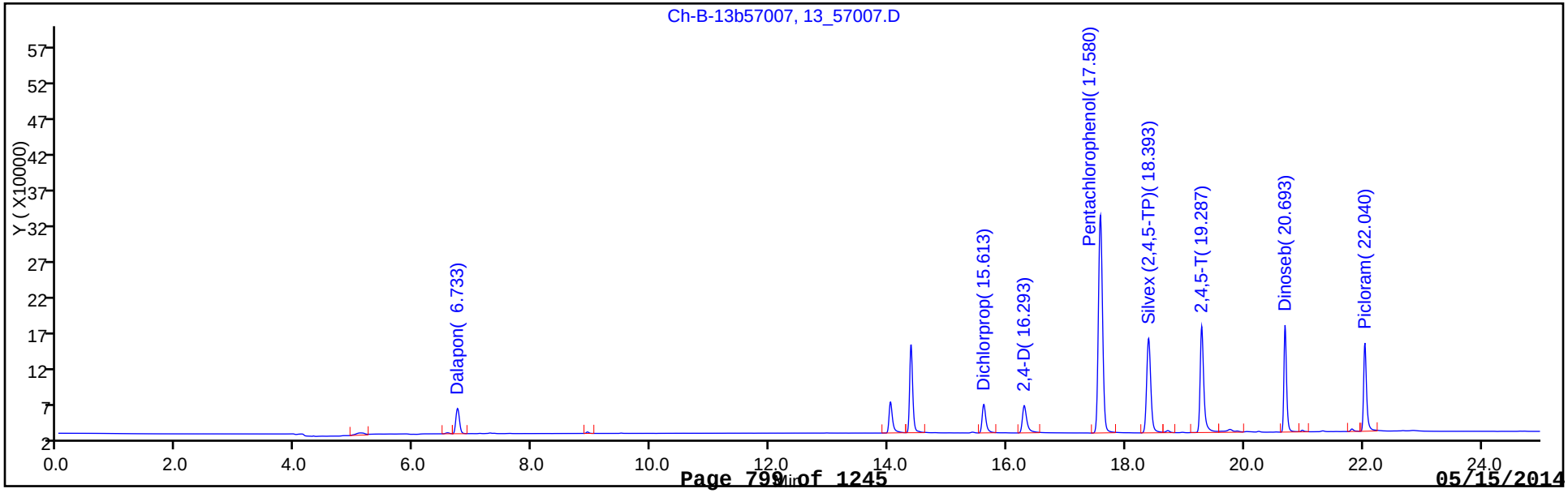
Data File: \\Bufchrom\ChromData\HP5890-13\20140405-30802.b\13_57007.D

Injection Date:	08-Apr-2014 18:41:50	Instrument ID:	HP5890-13	Operator ID:	buftchrom
Lims ID:	IC 0.10			Worklist Smp#:	7
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8151-13	Limit Group:	GC - 8151A - ICAL		

Column: RTX-CLPI (0.32 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-CLPII (0.32 mm) Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5890-13\20140405-30802.b\13_57008.D
Lims ID: IC 0.25
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 08-Apr-2014 19:11:26 ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name: IC 0.25
Misc. Info.: Study: 480-0030802-008 Channel B: I/F Serial#, 4087270795
Operator ID: buftchrom Instrument ID: HP5890-13
Sublist: chrom-8151-13*sub1

Method: \\Bufchrom\ChromData\HP5890-13\20140405-30802.b\8151-13.m
Limit Group: GC - 8151A - ICAL
Last Update: 09-Apr-2014 09:30:36 Calib Date: 08-Apr-2014 20:10:39
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5890-13\20140405-30802.b\13_57010.D

Column 1 : RTX-CLPI (0.32 mm) Det: Ch-A-13A01239
Column 2 : RTX-CLPII (0.32 mm) Det: Ch-B-13b01239
Process Host: XAWRK018

First Level Reviewer: RudzG Date: 09-Apr-2014 09:25:50

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	On-Col Amt ng/ul	Flags
$ 1 2,4-Dichlorophenylacetic acid						
1	12.333	12.347	-0.014	386555	0.2661	
2	14.033	14.040	-0.007	396819	0.2649	
					RPD = 0.46	
2 Dalapon						
1	6.047	6.047	0.0	377985	0.2597	
2	6.733	6.733	0.0	348977	0.2577	
					RPD = 0.75	
3 Dichlorprop						
1	13.507	13.520	-0.013	381240	0.2633	
2	15.607	15.613	-0.006	396203	0.2633	
					RPD = 0.01	
4 2,4-D						
1	13.840	13.867	-0.027	445427	0.2646	
2	16.287	16.300	-0.013	462617	0.2621	
					RPD = 0.93	
5 Pentachlorophenol						
1	14.320	14.320	0.0	3354846	0.2430	
2	17.573	17.580	-0.007	3543676	0.2447	
					RPD = 0.69	
6 Silvex (2,4,5-TP)						
1	15.187	15.193	-0.006	1526504	0.2585	
2	18.387	18.393	-0.006	1542886	0.2617	
					RPD = 1.20	
7 2,4,5-T						
1	15.707	15.733	-0.026	1560551	0.2591	
2	19.280	19.293	-0.013	1504252	0.2576	
					RPD = 0.59	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	On-Col Amt ng/ul	Flags
8 Picloram						
1	19.153	19.187	-0.034	1167518	0.2562	
2	22.033	22.040	-0.007	1123071	0.2540	
					RPD = 0.85	
9 Dinoseb						
1	19.447	19.447	0.0	1161158	0.2637	
2	20.693	20.693	0.0	1024441	0.2627	
					RPD = 0.41	

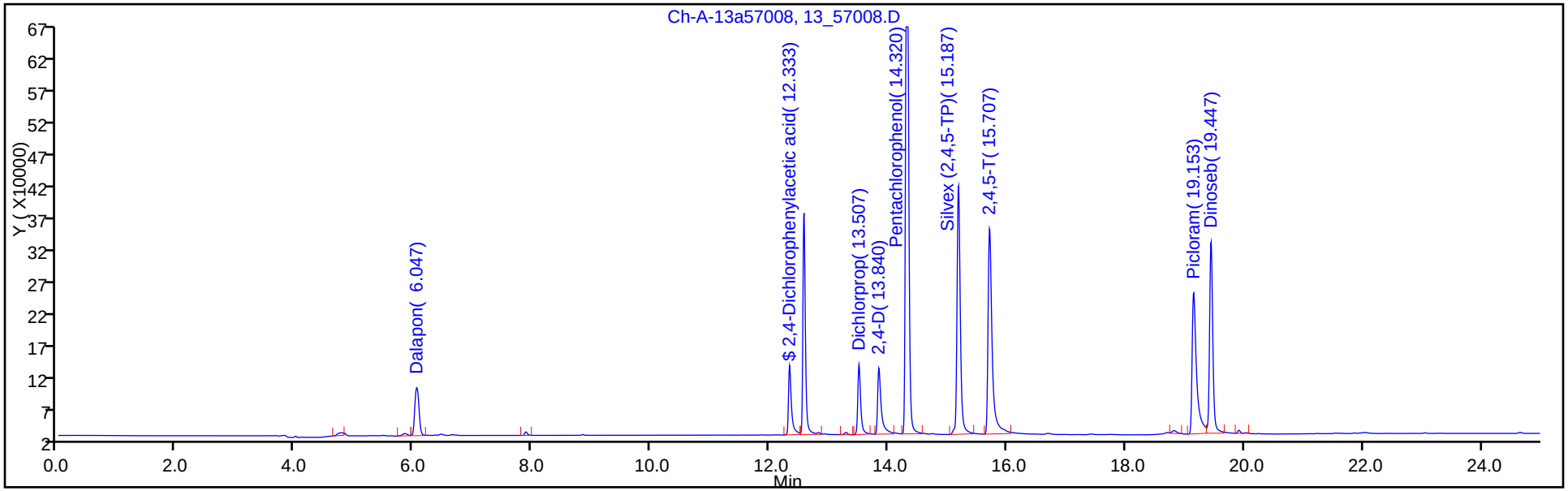
Report Date: 09-Apr-2014 09:30:36 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Buffalo

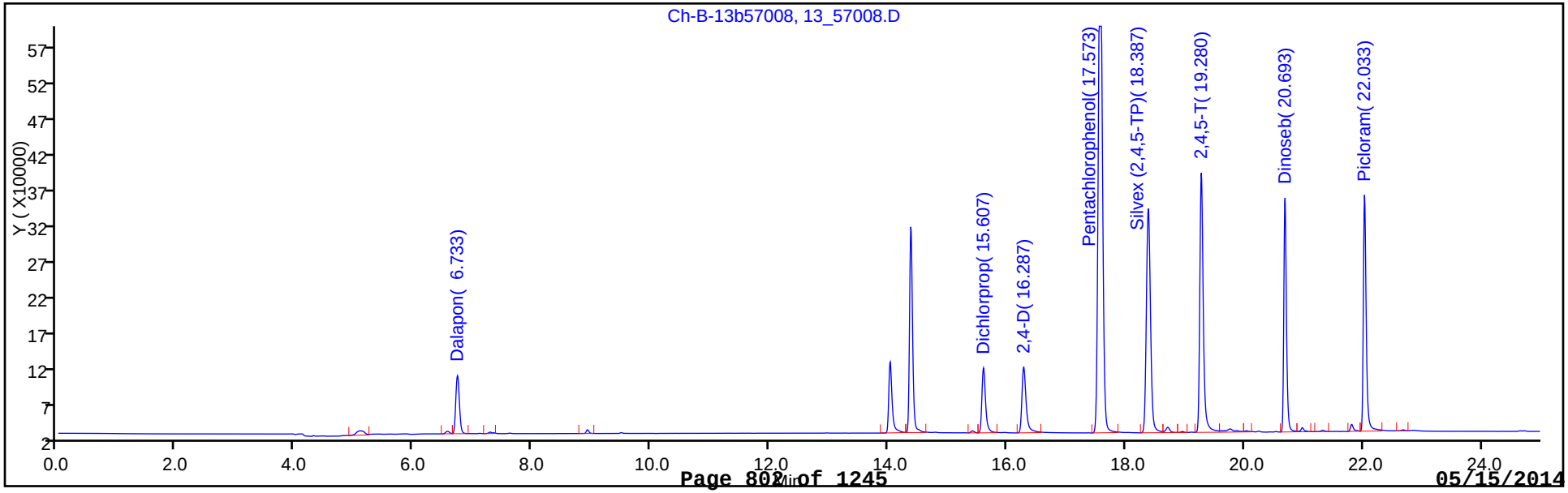
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Injection Date:	08-Apr-2014 19:11:26	Instrument ID:	HP5890-13	Operator ID:	buftchrom
Lims ID:	IC 0.25			Worklist Smp#:	8
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8151-13	Limit Group:	GC - 8151A - ICAL		

Column: RTX-CLPI (0.32 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-CLPII (0.32 mm) Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5890-13\20140405-30802.b\13_57009.D
Lims ID: IC 0.50
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 08-Apr-2014 19:41:04 ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name: IC 0.50
Misc. Info.: Study: 480-0030802-009 Channel B: I/F Serial#, 4087270795
Operator ID: buftchrom Instrument ID: HP5890-13
Sublist: chrom-8151-13*sub1

Method: \\Bufchrom\ChromData\HP5890-13\20140405-30802.b\8151-13.m
Limit Group: GC - 8151A - ICAL
Last Update: 09-Apr-2014 09:30:37 Calib Date: 08-Apr-2014 20:10:39
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5890-13\20140405-30802.b\13_57010.D

Column 1 : RTX-CLPI (0.32 mm) Det: Ch-A-13A01239
Column 2 : RTX-CLPII (0.32 mm) Det: Ch-B-13b01239
Process Host: XAWRK018

First Level Reviewer: RudzG Date: 09-Apr-2014 09:25:58

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	On-Col Amt ng/ul	Flags
$ 1 2,4-Dichlorophenylacetic acid						
1	12.333	12.347	-0.014	638558	0.4821	
2	14.027	14.040	-0.013	658791	0.4832	
					RPD = 0.22	
2 Dalapon						
1	6.047	6.047	0.0	661379	0.4906	
2	6.733	6.733	0.0	616047	0.4918	
					RPD = 0.25	
3 Dichlorprop						
1	13.500	13.520	-0.020	640374	0.4852	
2	15.600	15.613	-0.013	665035	0.4853	
					RPD = 0.02	
4 2,4-D						
1	13.833	13.867	-0.034	757085	0.4852	
2	16.280	16.300	-0.020	791158	0.4872	
					RPD = 0.41	
5 Pentachlorophenol						
1	14.333	14.320	0.013	4460677	0.3246	
2	17.593	17.580	0.013	5707277	0.3964	
					RPD = 19.90	
6 Silvex (2,4,5-TP)						
1	15.180	15.193	-0.013	2632831	0.4913	
2	18.387	18.393	-0.006	2673338	0.4891	
					RPD = 0.44	
7 2,4,5-T						
1	15.700	15.733	-0.033	2735534	0.4915	
2	19.280	19.293	-0.013	2626189	0.4925	
					RPD = 0.20	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	On-Col Amt ng/ul	Flags
8 Picloram						
1	19.140	19.187	-0.047	2170817	0.4978	
2	22.033	22.040	-0.007	2067449	0.4987	
					RPD = 0.19	
9 Dinoseb						
1	19.440	19.447	-0.007	1935519	0.4845	
2	20.693	20.693	0.0	1725998	0.4858	
					RPD = 0.29	

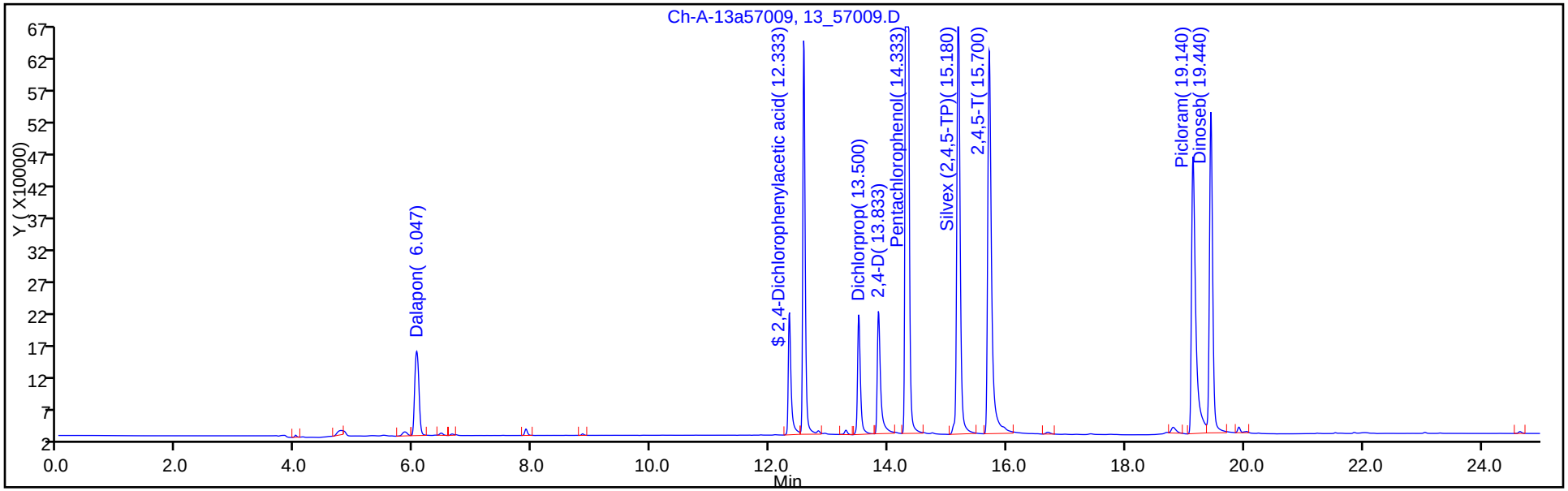
Report Date: 09-Apr-2014 09:30:37 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Buffalo

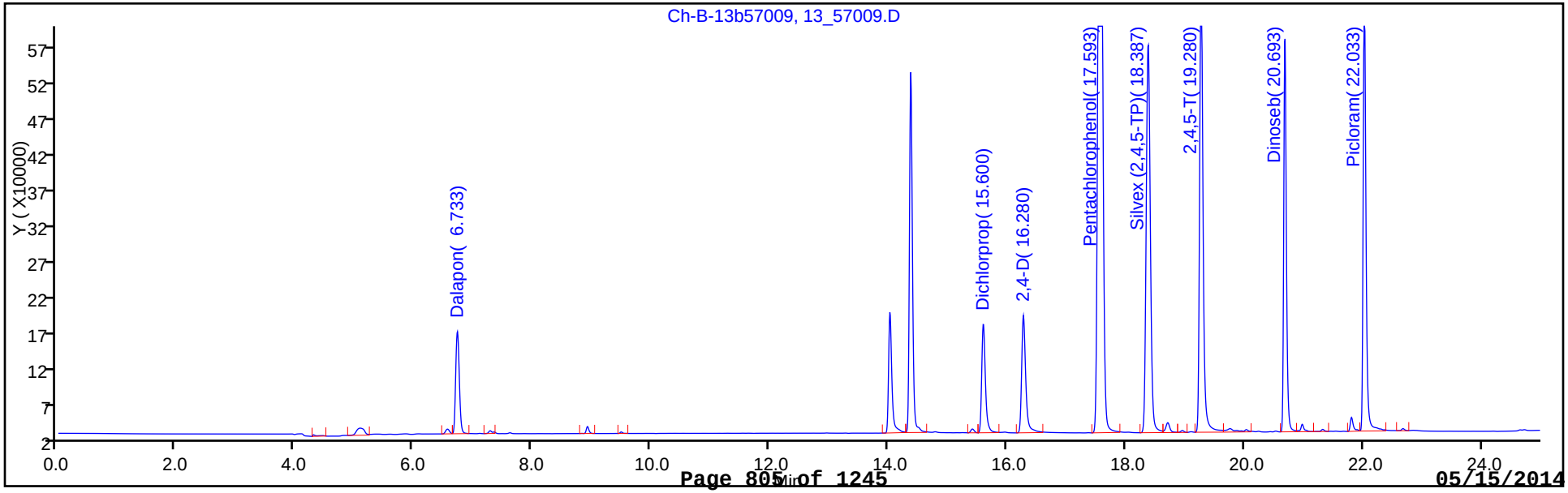
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Injection Date:	08-Apr-2014 19:41:04	Instrument ID:	HP5890-13	Operator ID:	buftchrom
Lims ID:	IC 0.50			Worklist Smp#:	9
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8151-13	Limit Group:	GC - 8151A - ICAL		

Column: RTX-CLPI (0.32 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-CLPII (0.32 mm) Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5890-13\20140405-30802.b\13_57010.D
Lims ID: IC 1.00
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 08-Apr-2014 20:10:39 ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name: IC 1.00
Misc. Info.: Study: 480-0030802-010 Channel B: I/F Serial#, 4087270795
Operator ID: buftchrom Instrument ID: HP5890-13
Sublist: chrom-8151-13*sub1

Method: \\Bufchrom\ChromData\HP5890-13\20140405-30802.b\8151-13.m
Limit Group: GC - 8151A - ICAL
Last Update: 09-Apr-2014 09:30:37 Calib Date: 08-Apr-2014 20:10:39
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5890-13\20140405-30802.b\13_57010.D

Column 1 : RTX-CLPI (0.32 mm) Det: Ch-A-13A01239
Column 2 : RTX-CLPII (0.32 mm) Det: Ch-B-13b01239
Process Host: XAWRK018

First Level Reviewer: RudzG Date: 09-Apr-2014 09:26:28

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	On-Col Amt ng/ul	Flags
$ 1 2,4-Dichlorophenylacetic acid						
1	12.327	12.347	-0.020	1083149	1.01	
2	14.027	14.040	-0.013	1118144	1.01	
					RPD = 0.04	
2 Dalapon						
1	6.047	6.047	0.0	1158310	1.00	
2	6.733	6.733	0.0	1076508	1.00	
					RPD = 0.03	
3 Dichlorprop						
1	13.500	13.520	-0.020	1082978	1.00	
2	15.600	15.613	-0.013	1122972	1.00	
					RPD = 0.00	
4 2,4-D						
1	13.833	13.867	-0.034	1320988	1.00	
2	16.273	16.300	-0.027	1361258	1.00	
					RPD = 0.04	
5 Pentachlorophenol						
1	14.340	14.320	0.020	5344491	0.3899	a
2	17.613	17.580	0.033	7179325	0.4996	a
					RPD = 24.67	
6 Silvex (2,4,5-TP)						
1	15.193	15.193	0.0	4270943	1.00	
2	18.380	18.393	-0.013	4632698	1.00	
					RPD = 0.01	
7 2,4,5-T						
1	15.707	15.733	-0.026	4634665	1.00	
2	19.287	19.293	-0.006	4350581	1.00	
					RPD = 0.01	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	On-Col Amt ng/ul	Flags
8 Picloram						
1	19.133	19.187	-0.054	3869783	1.00	
2	22.033	22.040	-0.007	3549220	1.00	
					RPD = 0.01	
9 Dinoseb						
1	19.440	19.447	-0.007	3262059	1.00	
2	20.687	20.693	-0.006	2935116	1.00	
					RPD = 0.06	

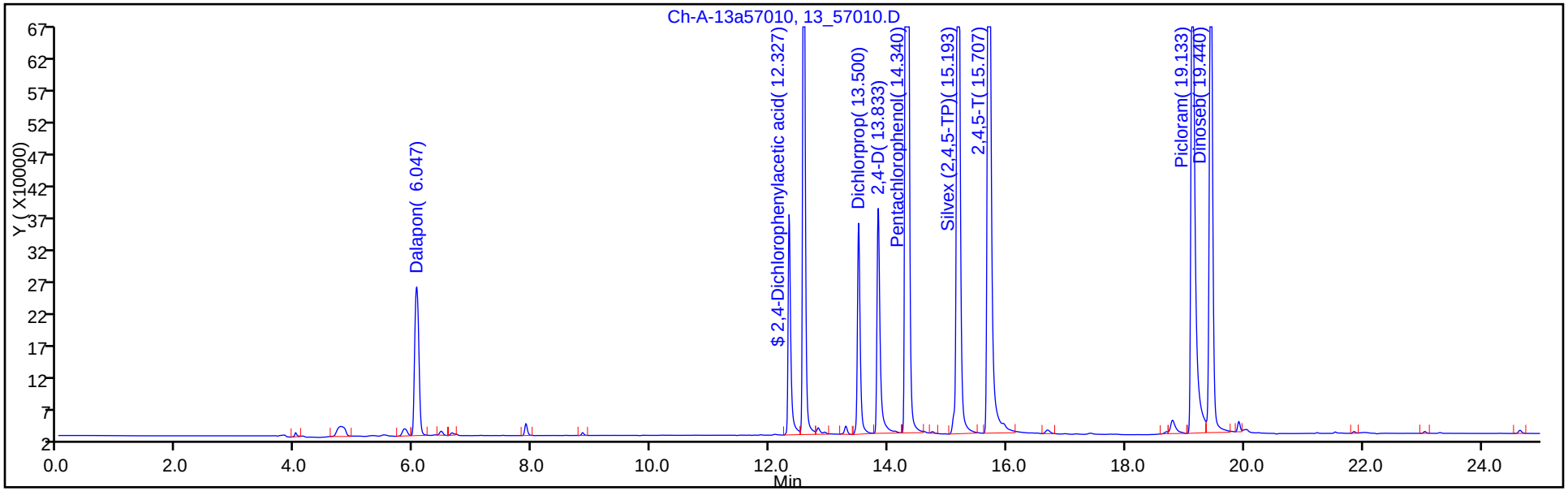
Report Date: 09-Apr-2014 09:30:38 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Buffalo

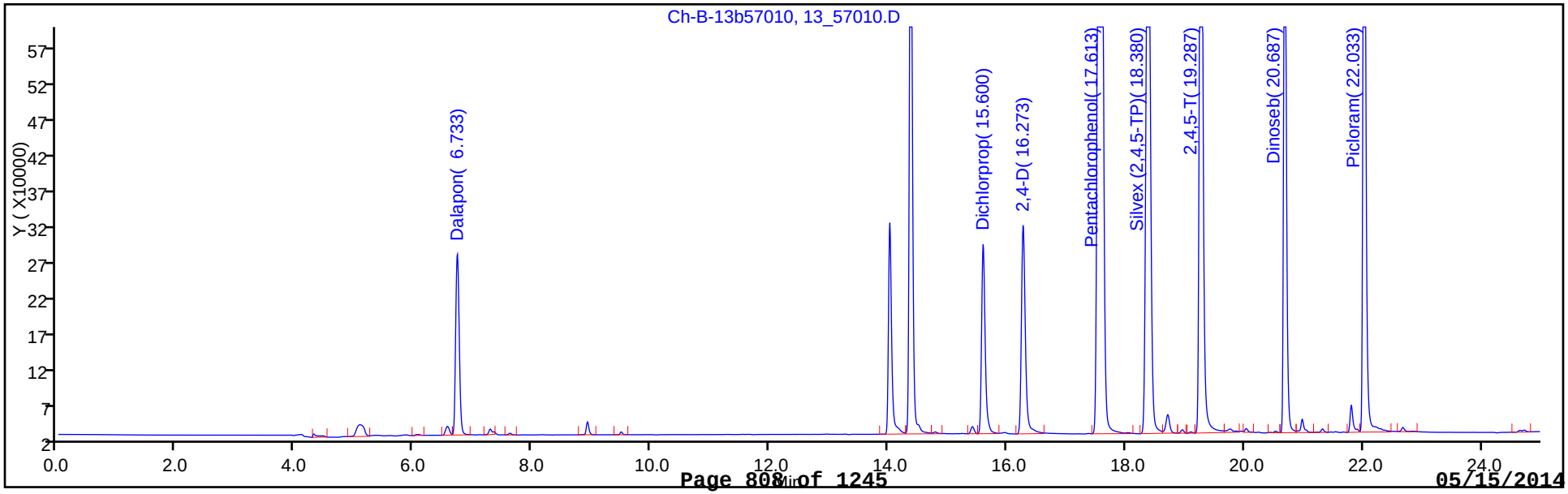
Data File: \\Bufchrom\ChromData\HP5890-13\20140405-30802.b\13_57010.D

Injection Date:	08-Apr-2014 20:10:39	Instrument ID:	HP5890-13	Operator ID:	buftchrom
Lims ID:	IC 1.00			Worklist Smp#:	10
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8151-13	Limit Group:	GC - 8151A - ICAL		

Column: RTX-CLPI (0.32 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-CLPII (0.32 mm) Y Scaling: Method Defined: Set to Absolute Y Value



FORM VI
HERBICIDES INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1 Analy Batch No.: 174107

SDG No.:

Instrument ID: HP5890-13 GC Column: RTX-CLPII ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/08/2014 17:12 Calibration End Date: 04/08/2014 20:10 Calibration ID: 18011

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-174107/4	13_57004.D
Level 2	IC 480-174107/5	13_57005.D
Level 3	IC 480-174107/6	13_57006.D
Level 4	IC 480-174107/7	13_57007.D
Level 5	IC 480-174107/8	13_57008.D
Level 6	IC 480-174107/9	13_57009.D
Level 7	IC 480-174107/10	13_57010.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	LVL 7				RT WINDOW	AVG RT
Dalapon	6.733	6.733	6.733	6.733	6.733	6.733	6.733				6.703 - 6.763	6.733
Dichlorprop	15.620	15.620	15.613	15.613	15.607	15.600	15.600				15.590 - 15.650	15.610
2,4-D	16.320	16.313	16.300	16.293	16.287	16.280	16.273				16.290 - 16.350	16.295
Pentachlorophenol	17.580	17.580	17.580	17.580	17.573	+++++	+++++				17.550 - 17.610	17.579
Silvex (2,4,5-TP)	18.400	18.400	18.393	18.393	18.387	18.387	18.380				18.370 - 18.430	18.391
2,4,5-T	19.300	19.293	19.293	19.287	19.280	19.280	19.287				19.270 - 19.330	19.289
Dinoseb	20.693	20.693	20.693	20.693	20.693	20.693	20.687				20.663 - 20.723	20.692
Picloram	22.053	22.047	22.040	22.040	22.033	22.033	22.033				22.023 - 22.083	22.040
2,4-Dichlorophenylacetic acid	14.053	14.047	14.040	14.040	14.033	14.027	14.027				14.023 - 14.083	14.038

FORM VI
HERBICIDES INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1 Analy Batch No.: 174107

SDG No.:

Instrument ID: HP5890-13 GC Column: RTX-CLPII ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/08/2014 17:12 Calibration End Date: 04/08/2014 20:10 Calibration ID: 18011

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-174107/4	13_57004.D
Level 2	IC 480-174107/5	13_57005.D
Level 3	IC 480-174107/6	13_57006.D
Level 4	IC 480-174107/7	13_57007.D
Level 5	IC 480-174107/8	13_57008.D
Level 6	IC 480-174107/9	13_57009.D
Level 7	IC 480-174107/10	13_57010.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								
Dalapon	2091800 1395908	1928150 1232094	1743960 1076508	1526770	Qua	14311.5076	1380975.09	-320312.69						1.0000		0.9900
Dichlorprop	2328700 1584812	2285200 1330070	2048840 1122972	1786880	Qua	20546.3397	1543523.76	-443979.05						0.9990		0.9900
2,4-D	2448200 1850468	2459200 1582316	2266200 1361258	2038370	Qua	18604.2378	1819591.44	-479966.16						0.9990		0.9900
Pentachlorophenol	17947400 14174704	17649300 +++++	16511920 +++++	15025340	Lin1	54349.5107	14261670.8							0.9980		0.9900
Silvex (2,4,5-TP)	7840500 6171544	7588000 5346676	7082940 4632698	6521780	Qua	43091.3475	6139775.75	-1558653.1						1.0000		0.9900
2,4,5-T	7943300 6017008	7531450 5252378	6948560 4350581	6427940	Qua	36289.8378	6180312.49	-1871539.8						1.0000		0.9900
Dinoseb	6701500 4097764	6172050 3451996	5369140 2935116	4677130	Qua	59302.8836	3961619.12	-1093069.8						0.9990		0.9900
Picloram	4497100 4492284	4490100 4134898	4444360 3549220	4317380	Qua	-10416.692	4770058.26	-1210733.0						1.0000		0.9900
2,4-Dichlorophenylacetic acid	2408900 1587276	2338700 1317582	2115660 1118144	1819600	Qua	23535.6802	1523697.48	-432384.68						0.9990		0.9900

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

FORM VI
HERBICIDES INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1 Analy Batch No.: 174107

SDG No.:

Instrument ID: HP5890-13 GC Column: RTX-CLPII ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/08/2014 17:12 Calibration End Date: 04/08/2014 20:10 Calibration ID: 18011

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-174107/4	13_57004.D
Level 2	IC 480-174107/5	13_57005.D
Level 3	IC 480-174107/6	13_57006.D
Level 4	IC 480-174107/7	13_57007.D
Level 5	IC 480-174107/8	13_57008.D
Level 6	IC 480-174107/9	13_57009.D
Level 7	IC 480-174107/10	13_57010.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
Dalapon	Qua	20918 616047	38563 1076508	87198	152677	348977	0.0100 0.500	0.0200 1.00	0.0500	0.100	0.250
Dichlorprop	Qua	23287 665035	45704 1122972	102442	178688	396203	0.0100 0.500	0.0200 1.00	0.0500	0.100	0.250
2,4-D	Qua	24482 791158	49184 1361258	113310	203837	462617	0.0100 0.500	0.0200 1.00	0.0500	0.100	0.250
Pentachlorophenol	Lin1	179474 +++++	352986 +++++	825596	1502534	3543676	0.0100 +++++	0.0200 +++++	0.0500	0.100	0.250
Silvex (2,4,5-TP)	Qua	78405 2673338	151760 4632698	354147	652178	1542886	0.0100 0.500	0.0200 1.00	0.0500	0.100	0.250
2,4,5-T	Qua	79433 2626189	150629 4350581	347428	642794	1504252	0.0100 0.500	0.0200 1.00	0.0500	0.100	0.250
Dinoseb	Qua	67015 1725998	123441 2935116	268457	467713	1024441	0.0100 0.500	0.0200 1.00	0.0500	0.100	0.250
Picloram	Qua	44971 2067449	89802 3549220	222218	431738	1123071	0.0100 0.500	0.0200 1.00	0.0500	0.100	0.250
2,4-Dichlorophenylacetic acid	Qua	24089 658791	46774 1118144	105783	181960	396819	0.0100 0.500	0.0200 1.00	0.0500	0.100	0.250

Curve Type Legend:

Lin1 = Linear 1/conc
Qua = Quadratic

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5890-13\20140405-30802.b\13_57004.D
Lims ID: IC 0.01
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 08-Apr-2014 17:12:52 ALS Bottle#: 0 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: Name: IC 0.01
Misc. Info.: Study: 480-0030802-004 Channel B: I/F Serial#, 4087270795
Operator ID: buftchrom Instrument ID: HP5890-13
Sublist: chrom-8151-13*sub1

Method: \\Bufchrom\ChromData\HP5890-13\20140405-30802.b\8151-13.m
Limit Group: GC - 8151A - ICAL
Last Update: 09-Apr-2014 09:30:33 Calib Date: 08-Apr-2014 20:10:39
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5890-13\20140405-30802.b\13_57010.D

Column 1 : RTX-CLPI (0.32 mm) Det: Ch-A-13A01239
Column 2 : RTX-CLPII (0.32 mm) Det: Ch-B-13b01239
Process Host: XAWRK018

First Level Reviewer: RudzG Date: 09-Apr-2014 09:24:39

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	On-Col Amt ng/ul	Flags
$ 1 2,4-Dichlorophenylacetic acid						
1	12.367	12.367	0.0	21077	0.00008373	
2	14.053	14.053	0.0	24089	0.000363	
					RPD = 125.06	
2 Dalapon						
1	6.047	6.047	0.0	22163	0.004593	
2	6.733	6.733	0.0	20918	0.004789	
					RPD = 4.19	
3 Dichlorprop						
1	13.527	13.527	0.0	22047	0.001895	
2	15.620	15.620	0.0	23287	0.001776	
					RPD = 6.44	
4 2,4-D						
1	13.900	13.900	0.0	19798	0.002725	
2	16.320	16.320	0.0	24482	0.003233	
					RPD = 17.07	
5 Pentachlorophenol						
1	14.327	14.327	0.0	177701	0.008431	
2	17.580	17.580	0.0	179474	0.008773	
					RPD = 3.98	
6 Silvex (2,4,5-TP)						
1	15.207	15.207	0.0	74577	0.006590	
2	18.400	18.400	0.0	78405	0.005760	
					RPD = 13.44	
7 2,4,5-T						
1	15.753	15.753	0.0	67677	0.007270	
2	19.300	19.300	0.0	79433	0.006996	
					RPD = 3.85	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	On-Col Amt ng/ul	Flags
8 Picloram						M
1	19.220	19.220	0.0	34096	0.0127	
2	22.053	22.053	0.0	44971	0.0116	M
					RPD = 8.88	
9 Dinoseb						
1	19.453	19.453	0.0	76349	0.001272	
2	20.693	20.693	0.0	67015	0.001948	
					RPD = 42.00	

QC Flag Legend

Review Flags
M - Manually Integrated

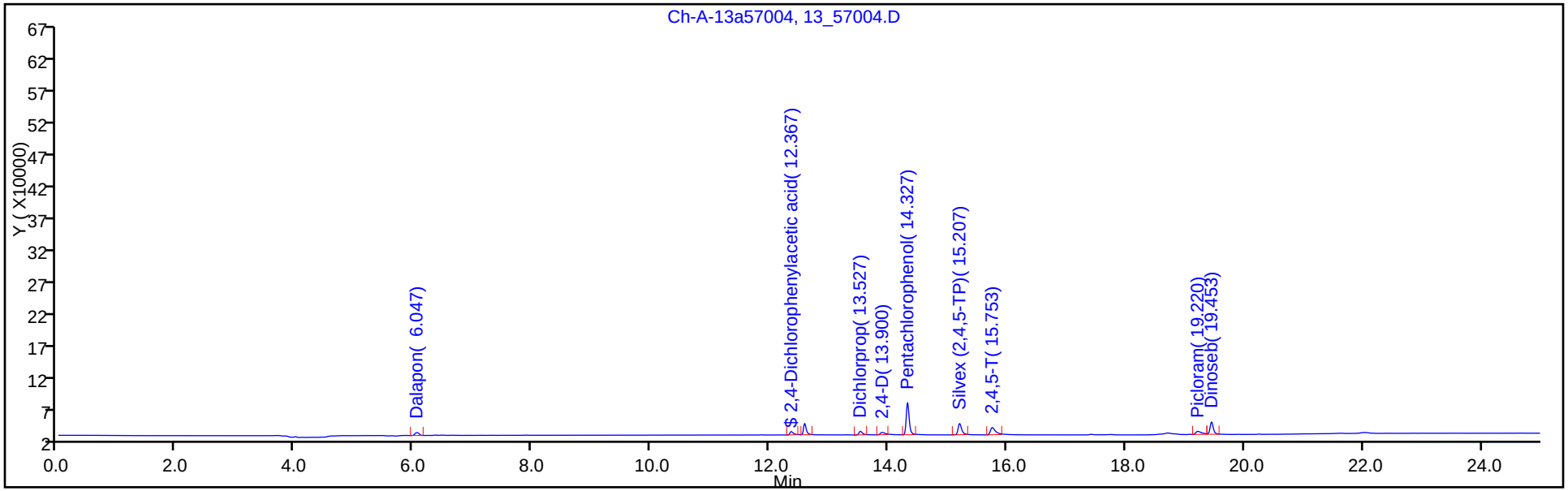
Report Date: 09-Apr-2014 09:30:33 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Buffalo

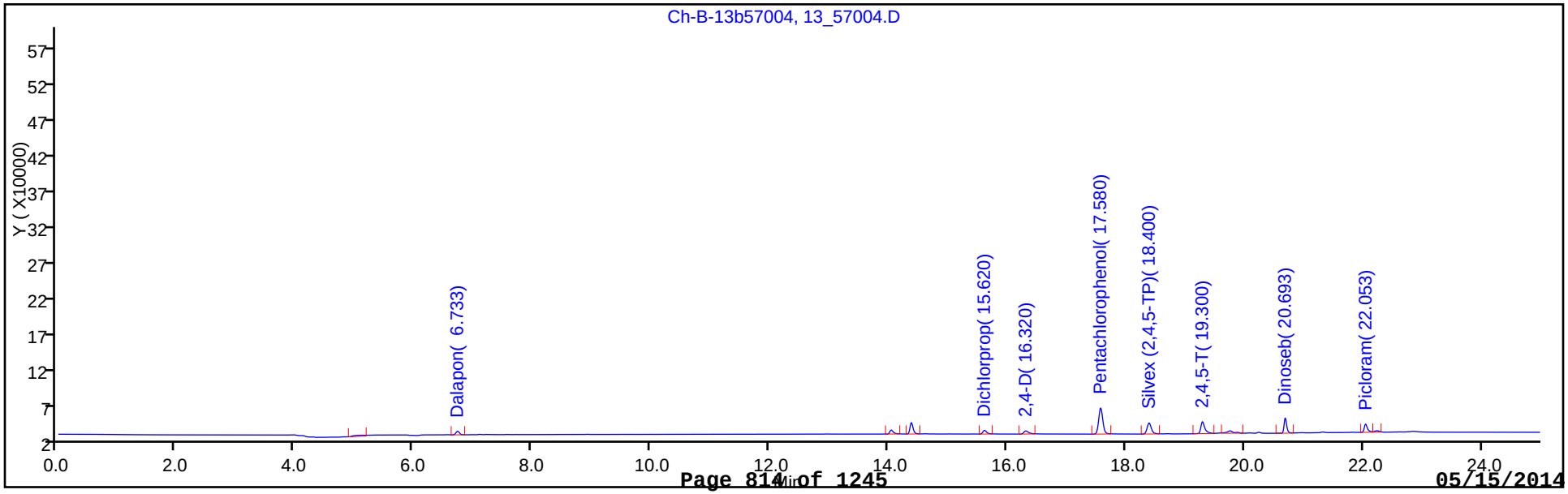
Data File: \\Bufchrom\ChromData\HP5890-13\20140405-30802.b\13_57004.D

Injection Date:	08-Apr-2014 17:12:52	Instrument ID:	HP5890-13	Operator ID:	buftchrom
Lims ID:	IC 0.01			Worklist Smp#:	4
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8151-13	Limit Group:	GC - 8151A - ICAL		

Column: RTX-CLPI (0.32 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-CLPII (0.32 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Manual Integration/User Assign Peak Report

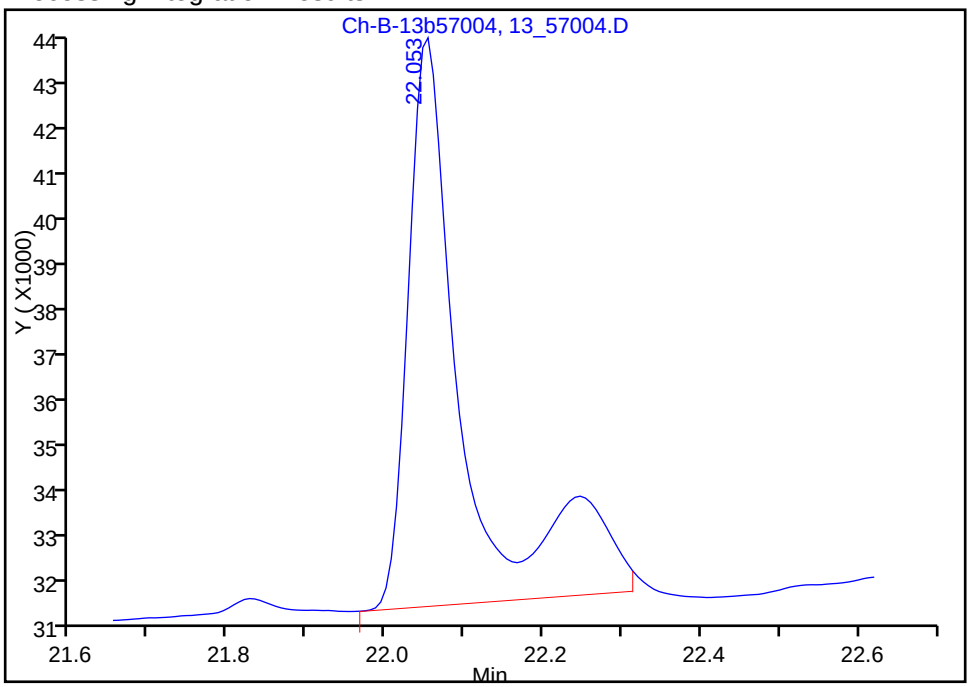
TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5890-13\20140405-30802.b\13_57004.D
Injection Date: 08-Apr-2014 17:12:52 Instrument ID: HP5890-13
Lims ID: IC 0.01
Client ID:
Operator ID: buftchrom ALS Bottle#: 0 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8151-13 Limit Group: GC - 8151A - ICAL
Column: RTX-CLPII (0.32 mm) Detector Ch-B-13b01239

8 Picloram, CAS: 1918-02-1

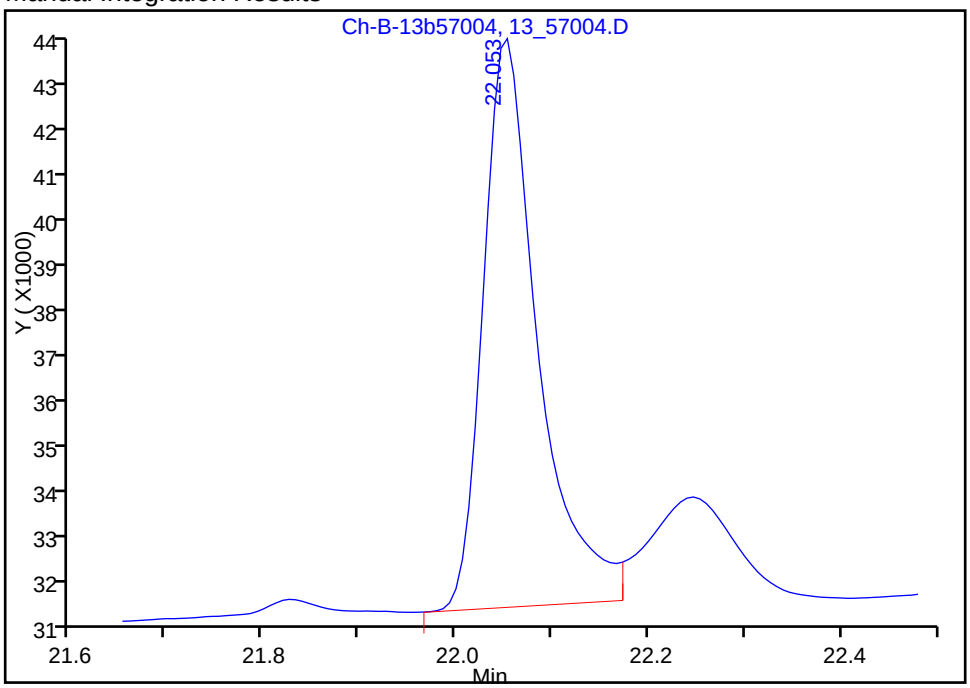
Processing Integration Results

RT: 22.05
Response: 56182
Amount: -0.022921



Manual Integration Results

RT: 22.05
Response: 44971
Amount: 0.011646



Reviewer: RudzG, 09-Apr-2014 09:24:39
Audit Action: Split an Integrated Peak
Audit Reason: Split Peak

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5890-13\20140405-30802.b\13_57005.D
Lims ID: IC 0.02
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 08-Apr-2014 17:42:33 ALS Bottle#: 0 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: Name: IC 0.02
Misc. Info.: Study: 480-0030802-005 Channel B: I/F Serial#, 4087270795
Operator ID: buftchrom Instrument ID: HP5890-13
Sublist: chrom-8151-13*sub1

Method: \\Bufchrom\ChromData\HP5890-13\20140405-30802.b\8151-13.m
Limit Group: GC - 8151A - ICAL
Last Update: 09-Apr-2014 09:30:34 Calib Date: 08-Apr-2014 20:10:39
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5890-13\20140405-30802.b\13_57010.D

Column 1 : RTX-CLPI (0.32 mm) Det: Ch-A-13A01239
Column 2 : RTX-CLPII (0.32 mm) Det: Ch-B-13b01239
Process Host: XAWRK018

First Level Reviewer: RudzG Date: 09-Apr-2014 09:24:55

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	On-Col Amt ng/ul	Flags
$ 1 2,4-Dichlorophenylacetic acid						
1	12.360	12.367	-0.007	44464	0.0159	
2	14.047	14.053	-0.006	46774	0.0153	
					RPD = 3.56	
2 Dalapon						
1	6.047	6.047	0.0	42170	0.0181	
2	6.733	6.733	0.0	38563	0.0176	
					RPD = 2.76	
3 Dichlorprop						
1	13.527	13.527	0.0	43151	0.0162	
2	15.620	15.620	0.0	45704	0.0164	
					RPD = 1.31	
4 2,4-D						
1	13.880	13.900	-0.020	43155	0.0162	
2	16.313	16.320	-0.007	49184	0.0169	
					RPD = 4.19	
5 Pentachlorophenol						
1	14.320	14.327	-0.007	350924	0.0212	
2	17.580	17.580	0.0	352986	0.0209	
					RPD = 1.33	
6 Silvex (2,4,5-TP)						
1	15.200	15.207	-0.007	147464	0.0182	
2	18.400	18.400	0.0	151760	0.0178	
					RPD = 2.48	
7 2,4,5-T						
1	15.747	15.753	-0.006	139153	0.0185	
2	19.293	19.300	-0.007	150629	0.0186	
					RPD = 0.52	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	On-Col Amt ng/ul	Flags
8 Picloram						
1	19.207	19.220	-0.013	76850	0.0215	
2	22.047	22.053	-0.006	89802	0.0211	
					RPD = 1.56	
9 Dinoseb						
1	19.453	19.453	0.0	141580	0.0159	
2	20.693	20.693	0.0	123441	0.0163	
					RPD = 2.15	

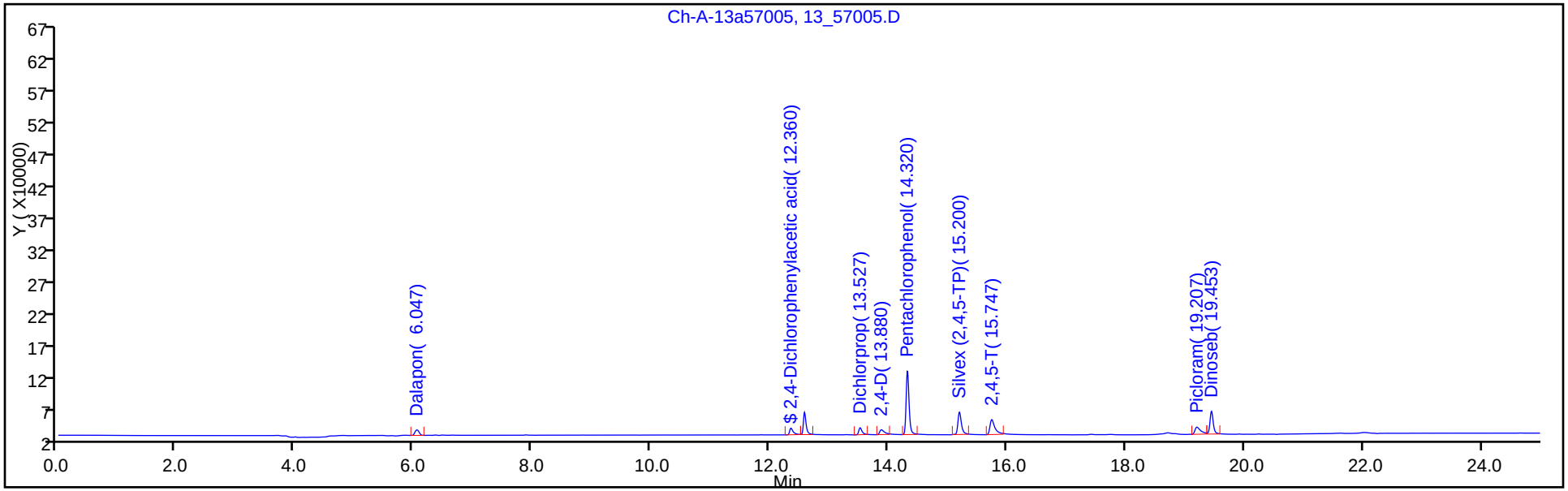
Report Date: 09-Apr-2014 09:30:34 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Buffalo

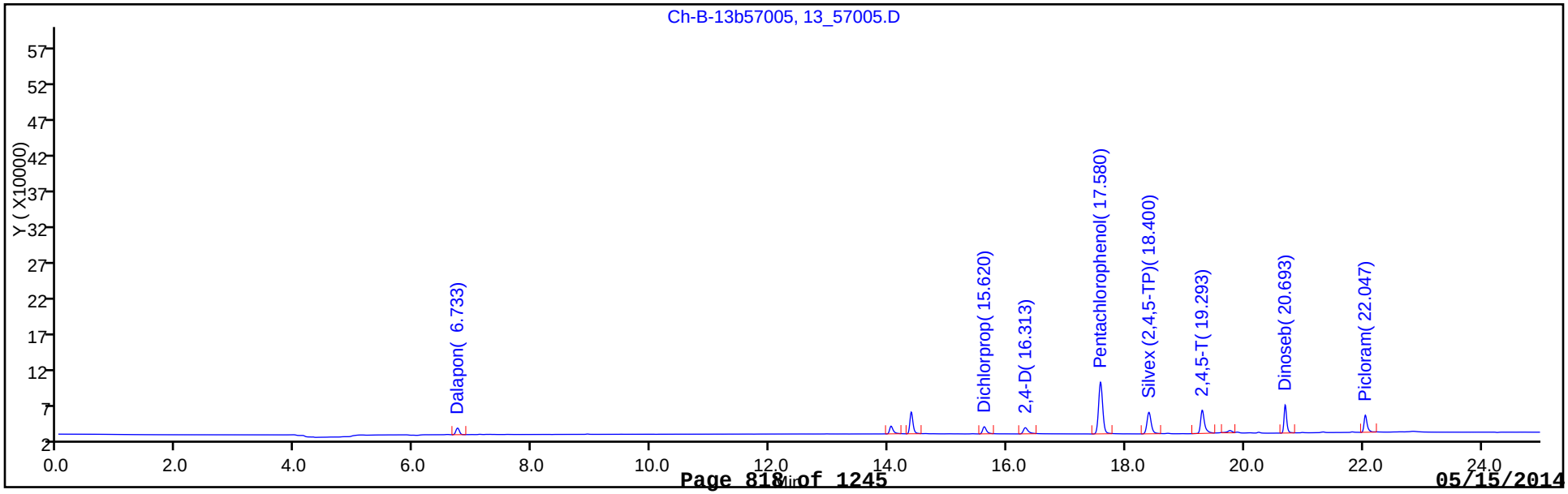
Data File: \\Bufchrom\ChromData\HP5890-13\20140405-30802.b\13_57005.D

Injection Date:	08-Apr-2014 17:42:33	Instrument ID:	HP5890-13	Operator ID:	buftchrom
Lims ID:	IC 0.02			Worklist Smp#:	5
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8151-13	Limit Group:	GC - 8151A - ICAL		

Column: RTX-CLPI (0.32 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-CLPII (0.32 mm) Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5890-13\20140405-30802.b\13_57006.D
Lims ID: IC 0.05
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 08-Apr-2014 18:12:10 ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: Name: IC 0.05
Misc. Info.: Study: 480-0030802-006 Channel B: I/F Serial#, 4087270795
Operator ID: buftchrom Instrument ID: HP5890-13
Sublist: chrom-8151-13*sub1

Method: \\Bufchrom\ChromData\HP5890-13\20140405-30802.b\8151-13.m
Limit Group: GC - 8151A - ICAL
Last Update: 09-Apr-2014 09:30:34 Calib Date: 08-Apr-2014 20:10:39
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5890-13\20140405-30802.b\13_57010.D

Column 1 : RTX-CLPI (0.32 mm) Det: Ch-A-13A01239
Column 2 : RTX-CLPII (0.32 mm) Det: Ch-B-13b01239
Process Host: XAWRK018

First Level Reviewer: RudzG Date: 09-Apr-2014 09:25:29

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	On-Col Amt ng/ul	Flags
$ 1 2,4-Dichlorophenylacetic acid						
1	12.347	12.367	-0.020	99850	0.0539	
2	14.040	14.053	-0.013	105783	0.0548	
					RPD = 1.79	
2 Dalapon						
1	6.047	6.047	0.0	93117	0.0530	
2	6.733	6.733	0.0	87198	0.0534	
					RPD = 0.86	
3 Dichlorprop						
1	13.520	13.527	-0.007	97890	0.0537	
2	15.613	15.620	-0.007	102442	0.0539	
					RPD = 0.30	
4 2,4-D						
1	13.867	13.900	-0.033	106425	0.0531	
2	16.300	16.320	-0.020	113310	0.0528	
					RPD = 0.66	
5 Pentachlorophenol						
1	14.320	14.327	-0.007	808949	0.0550	
2	17.580	17.580	0.0	825596	0.0541	
					RPD = 1.75	
6 Silvex (2,4,5-TP)						
1	15.193	15.207	-0.014	352593	0.0515	
2	18.393	18.400	-0.007	354147	0.0513	
					RPD = 0.27	
7 2,4,5-T						
1	15.733	15.753	-0.020	339579	0.0504	
2	19.293	19.300	-0.007	347428	0.0511	
					RPD = 1.43	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	On-Col Amt ng/ul	Flags
8 Picloram						
1	19.187	19.220	-0.033	206638	0.0481	
2	22.040	22.053	-0.013	222218	0.0494	
					RPD = 2.55	
9 Dinoseb						
1	19.447	19.453	-0.006	308383	0.0540	
2	20.693	20.693	0.0	268457	0.0536	
					RPD = 0.68	

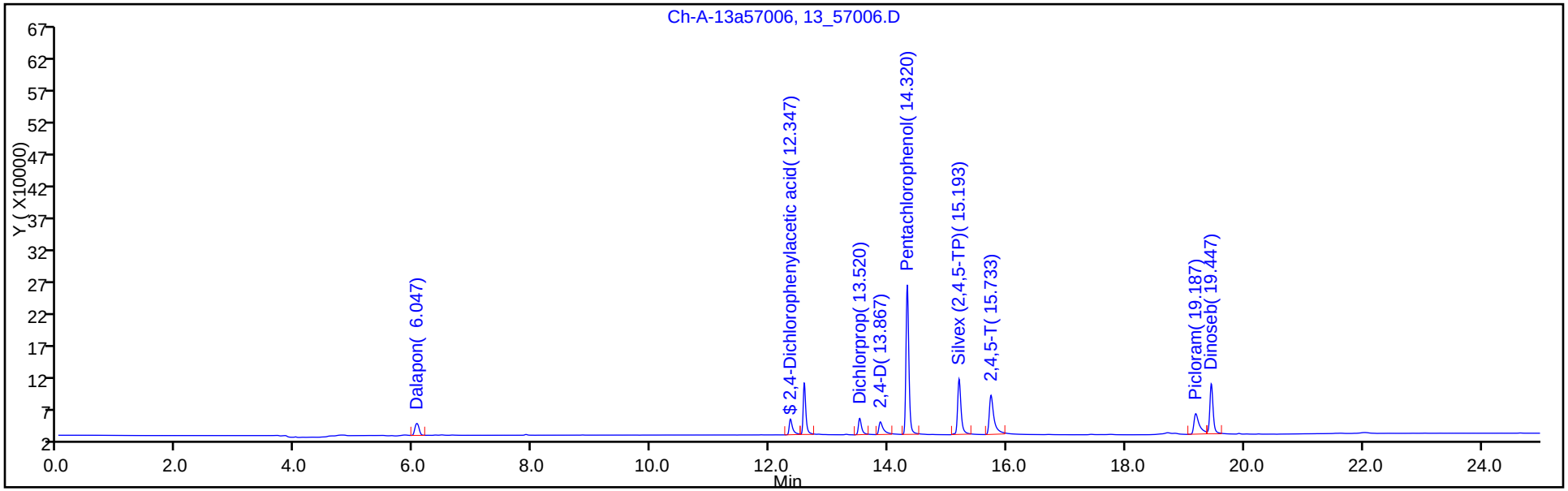
Report Date: 09-Apr-2014 09:30:35 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Buffalo

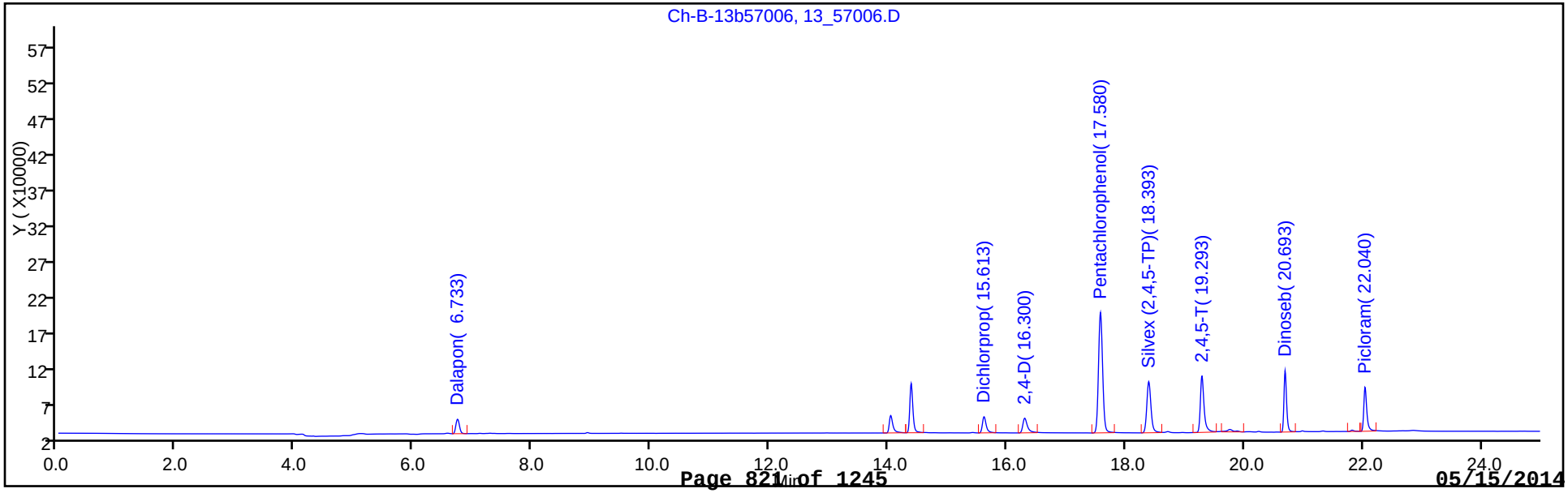
Data File: \\Bufchrom\ChromData\HP5890-13\20140405-30802.b\13_57006.D

Injection Date:	08-Apr-2014 18:12:10	Instrument ID:	HP5890-13	Operator ID:	buftchrom
Lims ID:	IC 0.05			Worklist Smp#:	6
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8151-13	Limit Group:	GC - 8151A - ICAL		

Column: RTX-CLPI (0.32 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-CLPII (0.32 mm) Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5890-13\20140405-30802.b\13_57007.D
Lims ID: IC 0.10
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 08-Apr-2014 18:41:50 ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name: IC 0.10
Misc. Info.: Study: 480-0030802-007 Channel B: I/F Serial#, 4087270795
Operator ID: buftchrom Instrument ID: HP5890-13
Sublist: chrom-8151-13*sub1

Method: \\Bufchrom\ChromData\HP5890-13\20140405-30802.b\8151-13.m
Limit Group: GC - 8151A - ICAL
Last Update: 09-Apr-2014 09:30:35 Calib Date: 08-Apr-2014 20:10:39
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5890-13\20140405-30802.b\13_57010.D

Column 1 : RTX-CLPI (0.32 mm) Det: Ch-A-13A01239
Column 2 : RTX-CLPII (0.32 mm) Det: Ch-B-13b01239
Process Host: XAWRK018

First Level Reviewer: RudzG Date: 09-Apr-2014 09:25:34

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	On-Col Amt ng/ul	Flags
$ 1 2,4-Dichlorophenylacetic acid						
1	12.340	12.347	-0.007	175977	0.1075	
2	14.040	14.040	0.0	181960	0.1072	
					RPD = 0.26	
2 Dalapon						
1	6.047	6.047	0.0	163147	0.1019	
2	6.733	6.733	0.0	152677	0.1026	
					RPD = 0.75	
3 Dichlorprop						
1	13.513	13.520	-0.007	172015	0.1060	
2	15.613	15.613	0.0	178688	0.1057	
					RPD = 0.29	
4 2,4-D						
1	13.853	13.867	-0.014	192762	0.1047	
2	16.293	16.300	-0.007	203837	0.1047	
					RPD = 0.03	
5 Pentachlorophenol						
1	14.320	14.320	0.0	1449597	0.1023	
2	17.580	17.580	0.0	1502534	0.1015	
					RPD = 0.77	
6 Silvex (2,4,5-TP)						
1	15.193	15.193	0.0	653053	0.1016	
2	18.393	18.393	0.0	652178	0.1018	
					RPD = 0.25	
7 2,4,5-T						
1	15.720	15.733	-0.013	650522	0.1011	
2	19.287	19.293	-0.006	642794	0.1012	
					RPD = 0.14	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	On-Col Amt ng/ul	Flags
8 Picloram						
1	19.173	19.187	-0.014	423644	0.0935	
2	22.040	22.040	0.0	431738	0.0950	
					RPD = 1.60	
9 Dinoseb						
1	19.447	19.447	0.0	533813	0.1068	
2	20.693	20.693	0.0	467713	0.1062	
					RPD = 0.53	

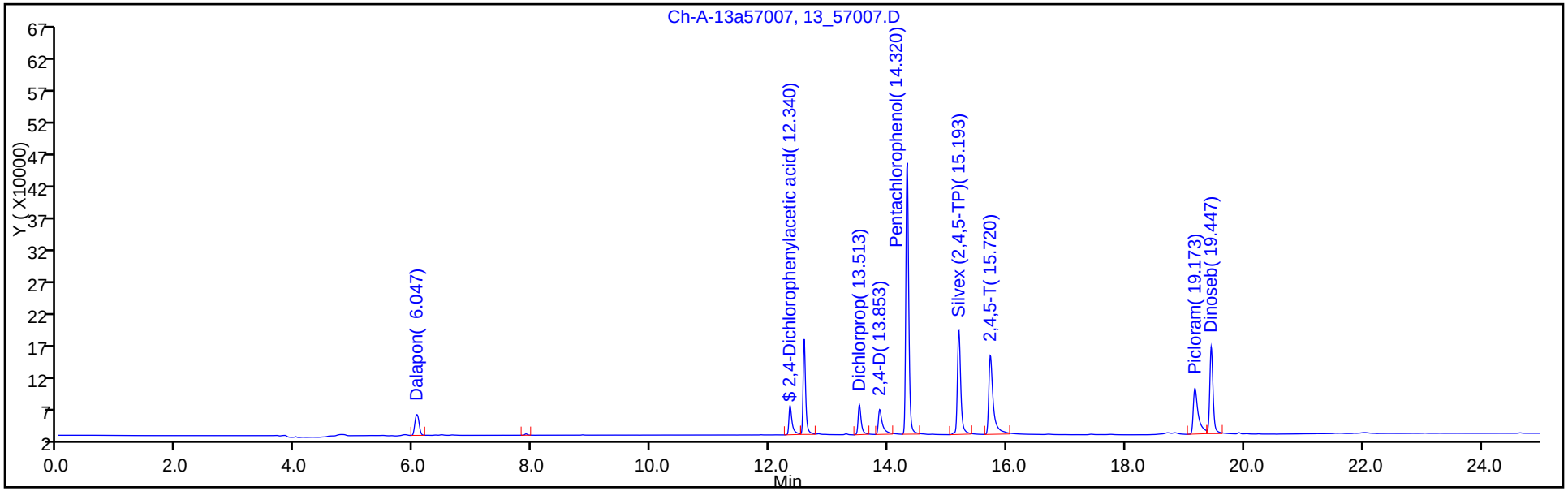
Report Date: 09-Apr-2014 09:30:35 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Buffalo

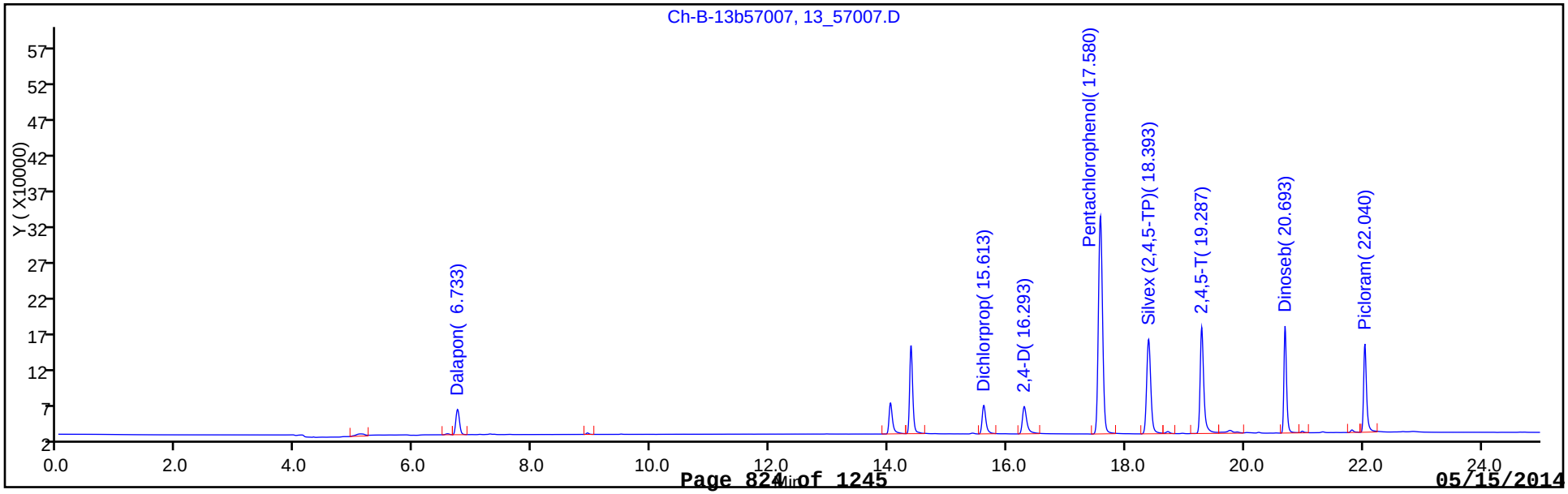
Data File: \\Bufchrom\ChromData\HP5890-13\20140405-30802.b\13_57007.D

Injection Date:	08-Apr-2014 18:41:50	Instrument ID:	HP5890-13	Operator ID:	buftchrom
Lims ID:	IC 0.10			Worklist Smp#:	7
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8151-13	Limit Group:	GC - 8151A - ICAL		

Column: RTX-CLPI (0.32 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-CLPII (0.32 mm) Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5890-13\20140405-30802.b\13_57008.D
Lims ID: IC 0.25
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 08-Apr-2014 19:11:26 ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name: IC 0.25
Misc. Info.: Study: 480-0030802-008 Channel B: I/F Serial#, 4087270795
Operator ID: buftchrom Instrument ID: HP5890-13
Sublist: chrom-8151-13*sub1

Method: \\Bufchrom\ChromData\HP5890-13\20140405-30802.b\8151-13.m
Limit Group: GC - 8151A - ICAL
Last Update: 09-Apr-2014 09:30:36 Calib Date: 08-Apr-2014 20:10:39
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5890-13\20140405-30802.b\13_57010.D

Column 1 : RTX-CLPI (0.32 mm) Det: Ch-A-13A01239
Column 2 : RTX-CLPII (0.32 mm) Det: Ch-B-13b01239
Process Host: XAWRK018

First Level Reviewer: RudzG Date: 09-Apr-2014 09:25:50

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	On-Col Amt ng/ul	Flags
$ 1 2,4-Dichlorophenylacetic acid						
1	12.333	12.347	-0.014	386555	0.2661	
2	14.033	14.040	-0.007	396819	0.2649	
					RPD = 0.46	
2 Dalapon						
1	6.047	6.047	0.0	377985	0.2597	
2	6.733	6.733	0.0	348977	0.2577	
					RPD = 0.75	
3 Dichlorprop						
1	13.507	13.520	-0.013	381240	0.2633	
2	15.607	15.613	-0.006	396203	0.2633	
					RPD = 0.01	
4 2,4-D						
1	13.840	13.867	-0.027	445427	0.2646	
2	16.287	16.300	-0.013	462617	0.2621	
					RPD = 0.93	
5 Pentachlorophenol						
1	14.320	14.320	0.0	3354846	0.2430	
2	17.573	17.580	-0.007	3543676	0.2447	
					RPD = 0.69	
6 Silvex (2,4,5-TP)						
1	15.187	15.193	-0.006	1526504	0.2585	
2	18.387	18.393	-0.006	1542886	0.2617	
					RPD = 1.20	
7 2,4,5-T						
1	15.707	15.733	-0.026	1560551	0.2591	
2	19.280	19.293	-0.013	1504252	0.2576	
					RPD = 0.59	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	On-Col Amt ng/ul	Flags
8 Picloram						
1	19.153	19.187	-0.034	1167518	0.2562	
2	22.033	22.040	-0.007	1123071	0.2540	
					RPD = 0.85	
9 Dinoseb						
1	19.447	19.447	0.0	1161158	0.2637	
2	20.693	20.693	0.0	1024441	0.2627	
					RPD = 0.41	

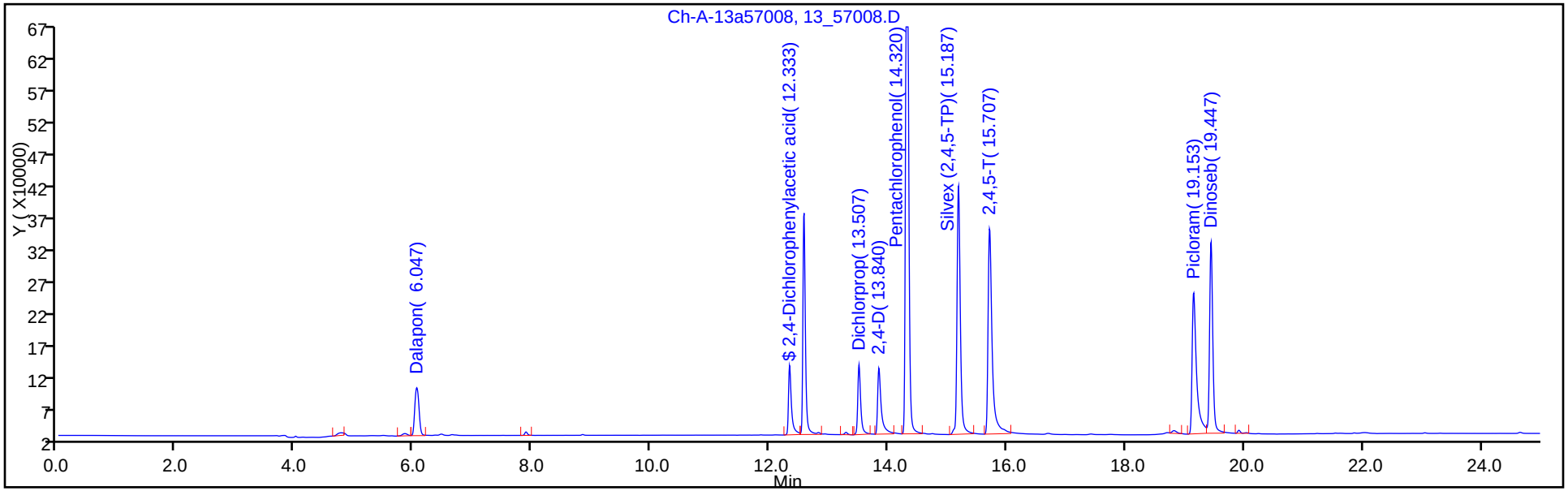
Report Date: 09-Apr-2014 09:30:36 Chrom Revision: 2.2 12-Mar-2014 11:19:24

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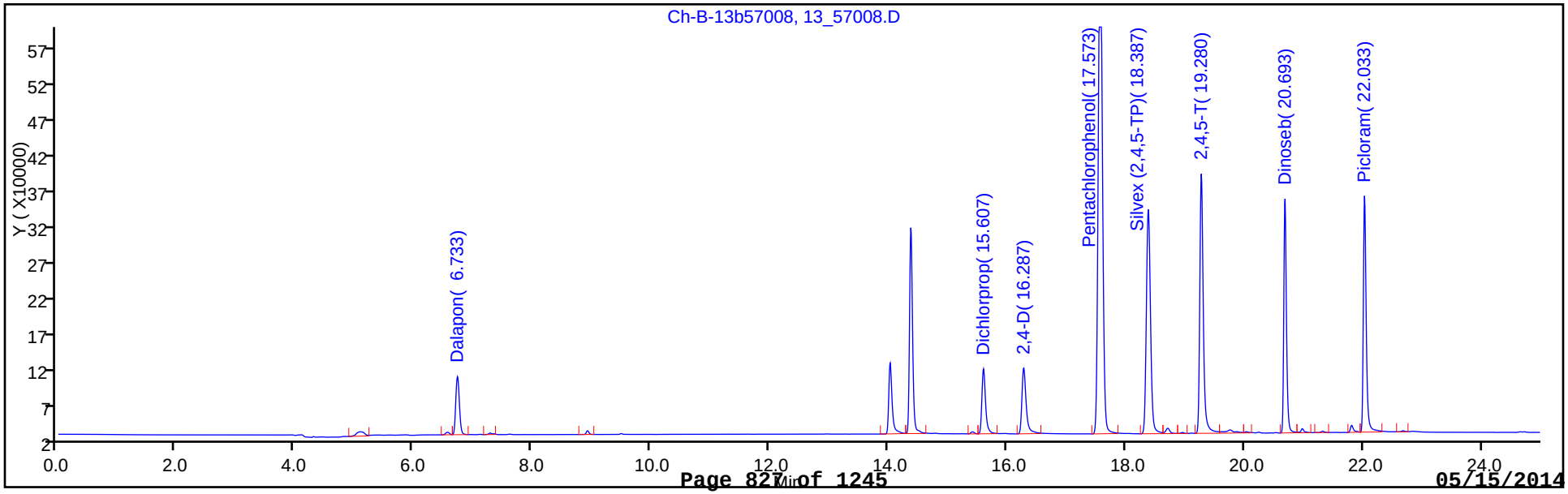
Data File: \\Bufchrom\ChromData\HP5890-13\20140405-30802.b\13_57008.D

Injection Date:	08-Apr-2014 19:11:26	Instrument ID:	HP5890-13	Operator ID:	buftchrom
Lims ID:	IC 0.25			Worklist Smp#:	8
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8151-13	Limit Group:	GC - 8151A - ICAL		

Column: RTX-CLPI (0.32 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-CLPII (0.32 mm) Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5890-13\20140405-30802.b\13_57009.D
Lims ID: IC 0.50
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 08-Apr-2014 19:41:04 ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name: IC 0.50
Misc. Info.: Study: 480-0030802-009 Channel B: I/F Serial#, 4087270795
Operator ID: buftchrom Instrument ID: HP5890-13
Sublist: chrom-8151-13*sub1

Method: \\Bufchrom\ChromData\HP5890-13\20140405-30802.b\8151-13.m
Limit Group: GC - 8151A - ICAL
Last Update: 09-Apr-2014 09:30:37 Calib Date: 08-Apr-2014 20:10:39
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5890-13\20140405-30802.b\13_57010.D

Column 1 : RTX-CLPI (0.32 mm) Det: Ch-A-13A01239
Column 2 : RTX-CLPII (0.32 mm) Det: Ch-B-13b01239
Process Host: XAWRK018

First Level Reviewer: RudzG Date: 09-Apr-2014 09:25:58

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	On-Col Amt ng/ul	Flags
$ 1 2,4-Dichlorophenylacetic acid						
1	12.333	12.347	-0.014	638558	0.4821	
2	14.027	14.040	-0.013	658791	0.4832	
					RPD = 0.22	
2 Dalapon						
1	6.047	6.047	0.0	661379	0.4906	
2	6.733	6.733	0.0	616047	0.4918	
					RPD = 0.25	
3 Dichlorprop						
1	13.500	13.520	-0.020	640374	0.4852	
2	15.600	15.613	-0.013	665035	0.4853	
					RPD = 0.02	
4 2,4-D						
1	13.833	13.867	-0.034	757085	0.4852	
2	16.280	16.300	-0.020	791158	0.4872	
					RPD = 0.41	
5 Pentachlorophenol						
1	14.333	14.320	0.013	4460677	0.3246	
2	17.593	17.580	0.013	5707277	0.3964	
					RPD = 19.90	
6 Silvex (2,4,5-TP)						
1	15.180	15.193	-0.013	2632831	0.4913	
2	18.387	18.393	-0.006	2673338	0.4891	
					RPD = 0.44	
7 2,4,5-T						
1	15.700	15.733	-0.033	2735534	0.4915	
2	19.280	19.293	-0.013	2626189	0.4925	
					RPD = 0.20	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	On-Col Amt ng/ul	Flags
8 Picloram						
1	19.140	19.187	-0.047	2170817	0.4978	
2	22.033	22.040	-0.007	2067449	0.4987	
					RPD = 0.19	
9 Dinoseb						
1	19.440	19.447	-0.007	1935519	0.4845	
2	20.693	20.693	0.0	1725998	0.4858	
					RPD = 0.29	

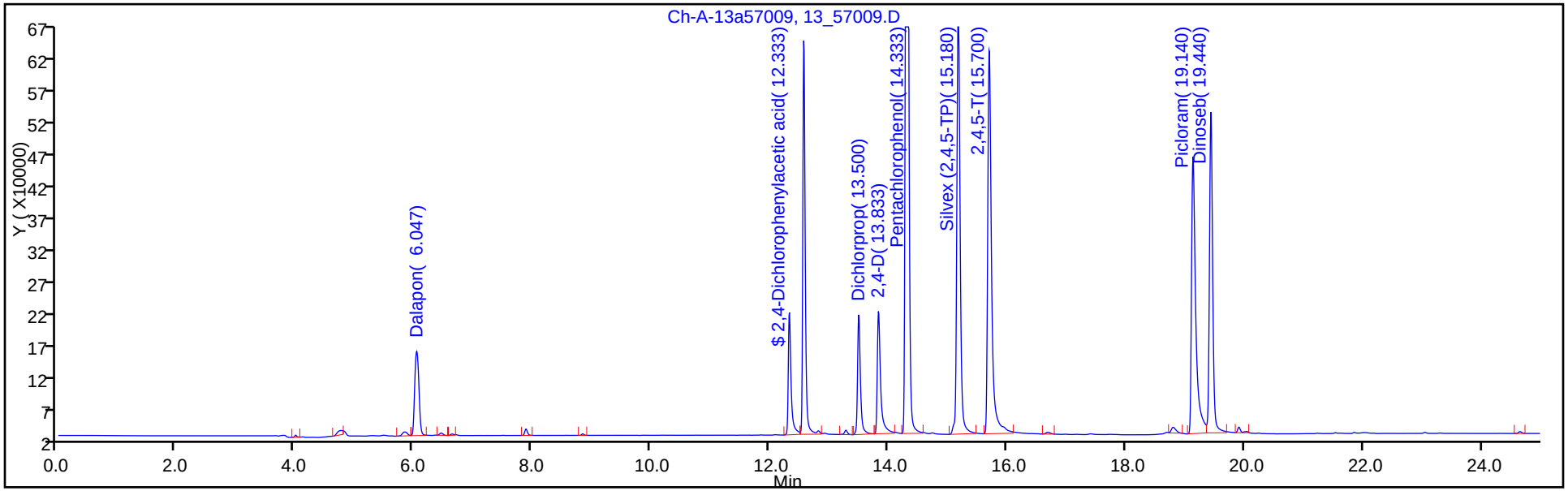
Report Date: 09-Apr-2014 09:30:37 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Buffalo

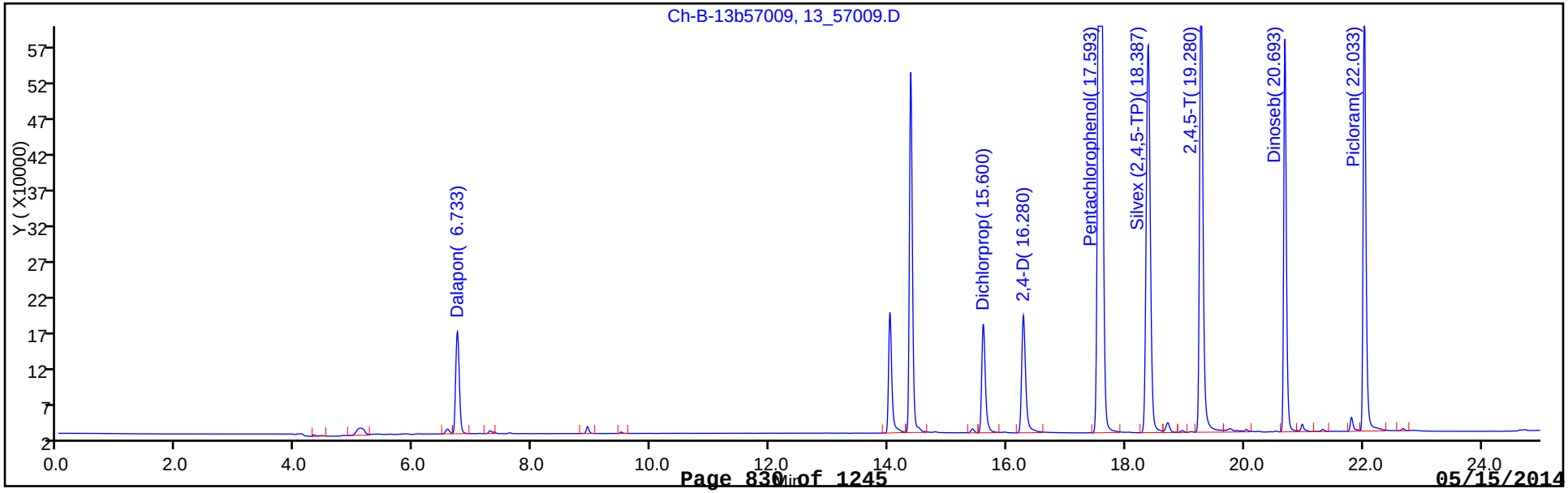
Data File: \\Bufchrom\ChromData\HP5890-13\20140405-30802.b\13_57009.D

Injection Date:	08-Apr-2014 19:41:04	Instrument ID:	HP5890-13	Operator ID:	buftchrom
Lims ID:	IC 0.50			Worklist Smp#:	9
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8151-13	Limit Group:	GC - 8151A - ICAL		

Column: RTX-CLPI (0.32 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-CLPII (0.32 mm) Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5890-13\20140405-30802.b\13_57010.D
Lims ID: IC 1.00
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 08-Apr-2014 20:10:39 ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name: IC 1.00
Misc. Info.: Study: 480-0030802-010 Channel B: I/F Serial#, 4087270795
Operator ID: buftchrom Instrument ID: HP5890-13
Sublist: chrom-8151-13*sub1

Method: \\Bufchrom\ChromData\HP5890-13\20140405-30802.b\8151-13.m
Limit Group: GC - 8151A - ICAL
Last Update: 09-Apr-2014 09:30:37 Calib Date: 08-Apr-2014 20:10:39
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5890-13\20140405-30802.b\13_57010.D

Column 1 : RTX-CLPI (0.32 mm) Det: Ch-A-13A01239
Column 2 : RTX-CLPII (0.32 mm) Det: Ch-B-13b01239
Process Host: XAWRK018

First Level Reviewer: RudzG Date: 09-Apr-2014 09:26:28

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	On-Col Amt ng/ul	Flags
$ 1 2,4-Dichlorophenylacetic acid						
1	12.327	12.347	-0.020	1083149	1.01	
2	14.027	14.040	-0.013	1118144	1.01	
					RPD = 0.04	
2 Dalapon						
1	6.047	6.047	0.0	1158310	1.00	
2	6.733	6.733	0.0	1076508	1.00	
					RPD = 0.03	
3 Dichlorprop						
1	13.500	13.520	-0.020	1082978	1.00	
2	15.600	15.613	-0.013	1122972	1.00	
					RPD = 0.00	
4 2,4-D						
1	13.833	13.867	-0.034	1320988	1.00	
2	16.273	16.300	-0.027	1361258	1.00	
					RPD = 0.04	
5 Pentachlorophenol						
1	14.340	14.320	0.020	5344491	0.3899	a
2	17.613	17.580	0.033	7179325	0.4996	a
					RPD = 24.67	
6 Silvex (2,4,5-TP)						
1	15.193	15.193	0.0	4270943	1.00	
2	18.380	18.393	-0.013	4632698	1.00	
					RPD = 0.01	
7 2,4,5-T						
1	15.707	15.733	-0.026	4634665	1.00	
2	19.287	19.293	-0.006	4350581	1.00	
					RPD = 0.01	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	On-Col Amt ng/ul	Flags
8 Picloram						
1	19.133	19.187	-0.054	3869783	1.00	
2	22.033	22.040	-0.007	3549220	1.00	
					RPD = 0.01	
9 Dinoseb						
1	19.440	19.447	-0.007	3262059	1.00	
2	20.687	20.693	-0.006	2935116	1.00	
					RPD = 0.06	

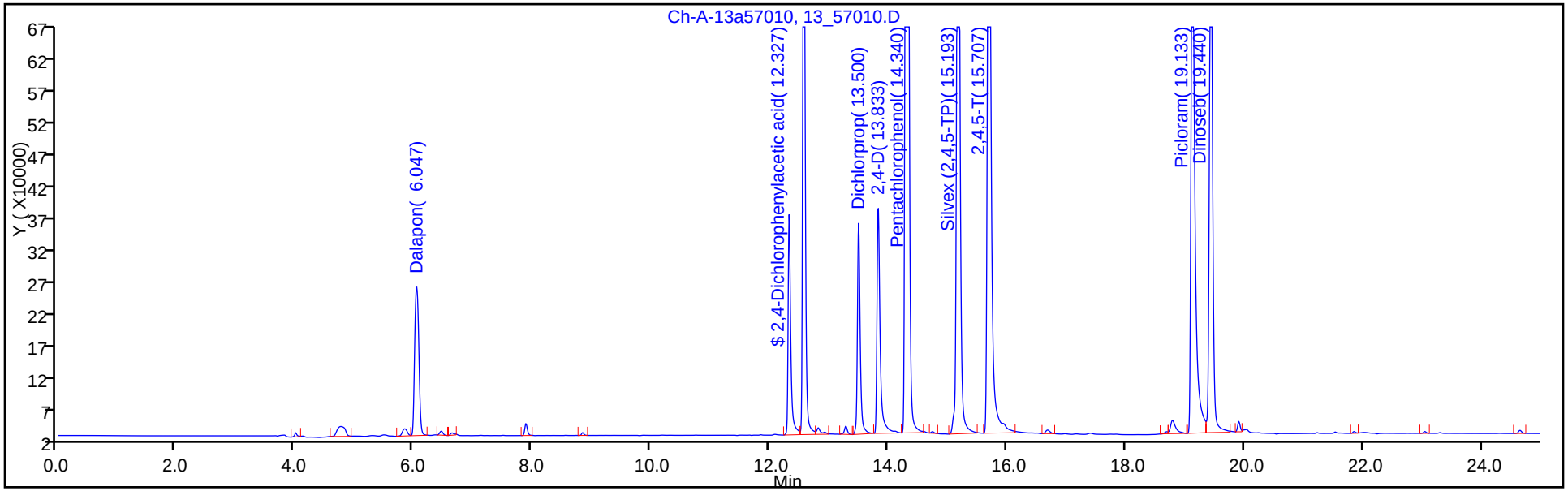
Report Date: 09-Apr-2014 09:30:38 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Buffalo

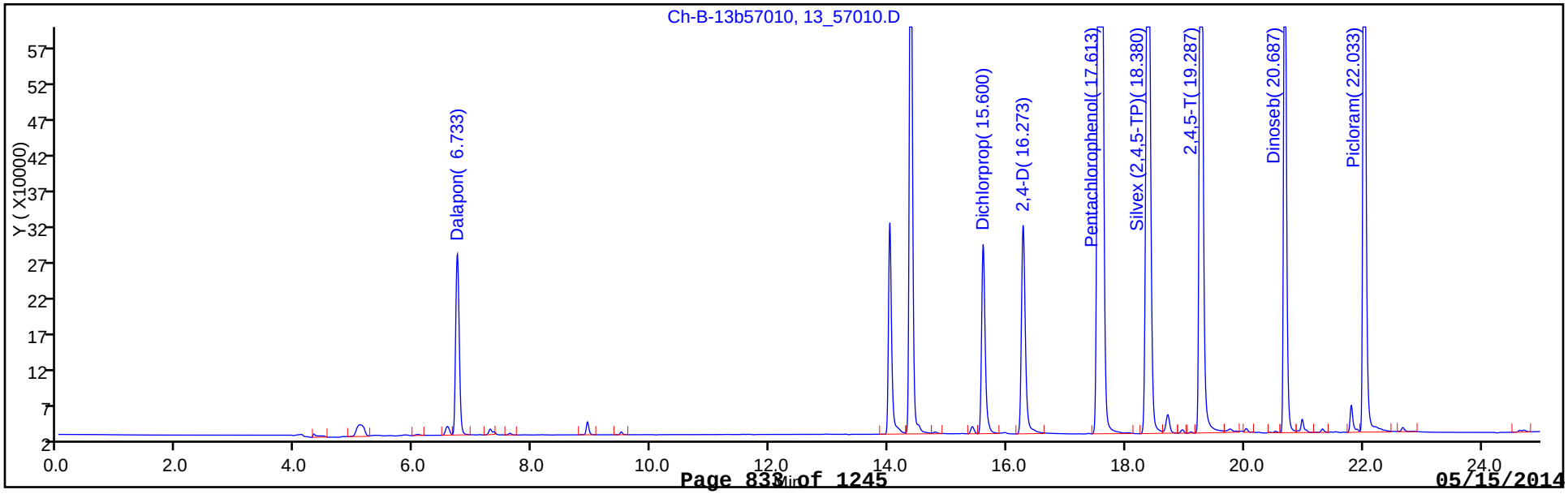
Data File: \\Bufchrom\ChromData\HP5890-13\20140405-30802.b\13_57010.D

Injection Date:	08-Apr-2014 20:10:39	Instrument ID:	HP5890-13	Operator ID:	buftchrom
Lims ID:	IC 1.00			Worklist Smp#:	10
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8151-13	Limit Group:	GC - 8151A - ICAL		

Column: RTX-CLPI (0.32 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-CLPII (0.32 mm) Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
HERBICIDES CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1

SDG No.:

Lab Sample ID: CCV 480-181242/2 Calibration Date: 05/12/2014 11:08

Instrument ID: HP5890-13 Calib Start Date: 04/08/2014 17:12

GC Column: RTX-CLPI ID: 0.32(mm) Calib End Date: 04/08/2014 20:10

Lab File ID: 13_59002.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dalapon	Qua		1403328		0.239	0.250	-4.4	15.0
Dichlorprop	Qua		1429512		0.245	0.250	-2.2	15.0
2,4-D	Qua		1617528		0.238	0.250	-5.0	15.0
Pentachlorophenol	Lin1		12587384		0.228	0.250	-8.9	15.0
Silvex (2,4,5-TP)	Qua		5549016		0.232	0.250	-7.1	15.0
2,4,5-T	Qua		5190700		0.212	0.250	-15.3*	15.0
Picloram	Qua		2431172		0.133	0.250	-46.9*	15.0
Dinoseb	Qua		4002564		0.222	0.250	-11.2	15.0
2,4-Dichlorophenylacetic acid	Qua		1496148		0.256	0.250	2.5	15.0

FORM VII
HERBICIDES CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1

SDG No.:

Lab Sample ID: CCV 480-181242/2 Calibration Date: 05/12/2014 11:08

Instrument ID: HP5890-13 Calib Start Date: 04/08/2014 17:12

GC Column: RTX-CLPI ID: 0.32(mm) Calib End Date: 04/08/2014 20:10

Lab File ID: 13_59002.D

Analyte	RT	RT WINDOW	
		FROM	TO
Dalapon	6.01	5.98	6.04
Dichlorprop	13.43	13.40	13.46
2,4-D	13.76	13.73	13.79
Pentachlorophenol	14.23	14.20	14.26
Silvex (2,4,5-TP)	15.09	15.06	15.12
2,4,5-T	15.61	15.58	15.64
Picloram	19.05	19.02	19.08
Dinoseb	19.35	19.32	19.38
2,4-Dichlorophenylacetic acid	12.27	12.24	12.30

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5890-13\20140509-31952.b\13_59002.D
Lims ID: ccv
Client ID:
Sample Type: CCV
Inject. Date: 12-May-2014 11:08:20 ALS Bottle#: 0 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name: CCV
Misc. Info.: Study: 480-0031952-002 Channel B: I/F Serial#, 4087270795
Operator ID: buftchrom Instrument ID: HP5890-13
Sublist: chrom-8151-13*sub1

Method: \\Bufchrom\ChromData\HP5890-13\20140509-31952.b\8151-13.m
Limit Group: GC - 8151A - ICAL
Last Update: 12-May-2014 13:56:04 Calib Date: 08-Apr-2014 20:10:39
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5890-13\20140405-30802.b\13_57010.D

Column 1 : RTX-CLPI (0.32 mm) Det: Ch-A-13A01239
Column 2 : RTX-CLPII (0.32 mm) Det: Ch-B-13b01239
Process Host: XAWRK049

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
$ 1 2,4-Dichlorophenylacetic acid							
1	12.273	12.273	0.000	374037	0.2500	0.2562	
2	13.987	13.987	0.000	402594	0.2500	0.2694	
						RPD = 5.00	
2 Dalapon							
1	6.007	6.007	0.000	350832	0.2500	0.2390	
2	6.700	6.700	0.000	316185	0.2500	0.2310	
						RPD = 3.43	
3 Dichlorprop							
1	13.433	13.433	0.000	357378	0.2500	0.2446	
2	15.553	15.553	0.000	345146	0.2500	0.2248	
						RPD = 8.40	
4 2,4-D							
1	13.760	13.760	0.000	404382	0.2500	0.2376	
2	16.227	16.227	0.000	387310	0.2500	0.2148	
						RPD = 10.09	
5 Pentachlorophenol							
1	14.233	14.233	0.000	3146846	0.2500	0.2276	
2	17.507	17.507	0.000	3367901	0.2500	0.2323	
						RPD = 2.05	
6 Silvex (2,4,5-TP)							
1	15.087	15.087	0.000	1387254	0.2500	0.2322	
2	18.320	18.320	0.000	1298412	0.2500	0.2163	
						RPD = 7.08	
7 2,4,5-T							
1	15.607	15.607	0.000	1297675	0.2500	0.2118	
2	19.233	19.233	0.000	1210138	0.2500	0.2023	
						RPD = 4.60	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
8 Picloram							
1	19.053	19.053	0.000	607793	0.2500	0.1327	
2	21.993	21.993	0.000	530358	0.2500	0.1168	
						RPD = 12.68	
9 Dinoseb							
1	19.347	19.347	0.000	1000641	0.2500	0.2220	
2	20.653	20.653	0.000	888850	0.2500	0.2231	
						RPD = 0.50	

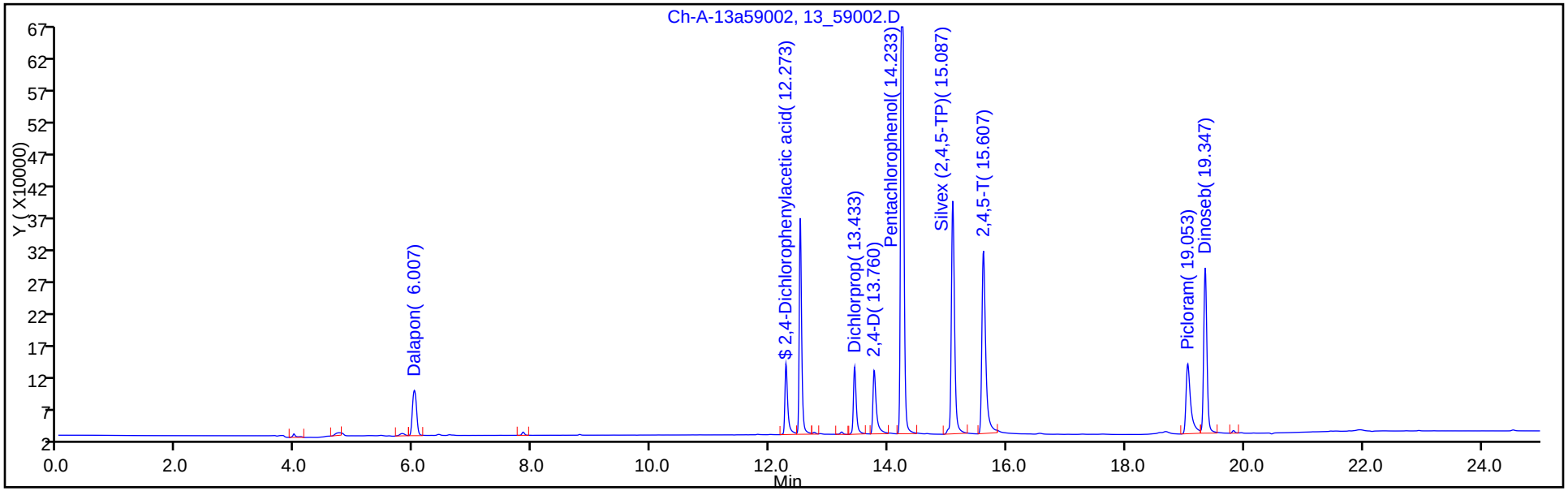
Report Date: 12-May-2014 13:56:05 Chrom Revision: 2.2 14-Apr-2014 13:40:08

TestAmerica Buffalo

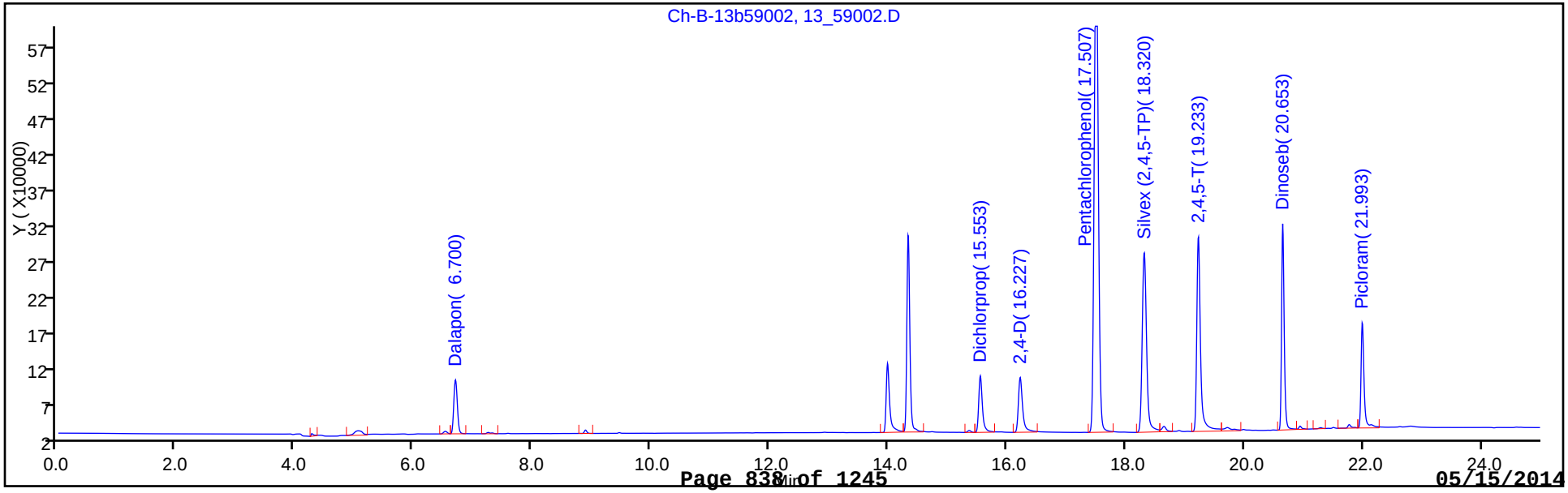
Data File: \\Bufchrom\ChromData\HP5890-13\20140509-31952.b\13_59002.D

Injection Date:	12-May-2014 11:08:20	Instrument ID:	HP5890-13	Operator ID:	buftchrom
Lims ID:	ccv			Worklist Smp#:	2
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8151-13	Limit Group:	GC - 8151A - ICAL		

Column: RTX-CLPI (0.32 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-CLPII (0.32 mm) Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
HERBICIDES CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1

SDG No.:

Lab Sample ID: CCV 480-181242/2 Calibration Date: 05/12/2014 11:08

Instrument ID: HP5890-13 Calib Start Date: 04/08/2014 17:12

GC Column: RTX-CLPII ID: 0.32(mm) Calib End Date: 04/08/2014 20:10

Lab File ID: 13_59002.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dalapon	Qua		1264740		0.231	0.250	-7.6	15.0
Dichlorprop	Qua		1380584		0.225	0.250	-10.1	15.0
2,4-D	Qua		1549240		0.215	0.250	-14.1	15.0
Pentachlorophenol	Lin1		13471604		0.232	0.250	-7.1	15.0
Silvex (2,4,5-TP)	Qua		5193648		0.216	0.250	-13.5	15.0
2,4,5-T	Qua		4840552		0.202	0.250	-19.1*	15.0
Dinoseb	Qua		3555400		0.223	0.250	-10.7	15.0
Picloram	Qua		2121432		0.117	0.250	-53.3*	15.0
2,4-Dichlorophenylacetic acid	Qua		1610376		0.269	0.250	7.7	15.0

FORM VII
HERBICIDES CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1

SDG No.:

Lab Sample ID: CCV 480-181242/2 Calibration Date: 05/12/2014 11:08

Instrument ID: HP5890-13 Calib Start Date: 04/08/2014 17:12

GC Column: RTX-CLPII ID: 0.32(mm) Calib End Date: 04/08/2014 20:10

Lab File ID: 13_59002.D

Analyte	RT	RT WINDOW	
		FROM	TO
Dalapon	6.70	6.67	6.73
Dichlorprop	15.55	15.52	15.58
2,4-D	16.23	16.20	16.26
Pentachlorophenol	17.51	17.48	17.54
Silvex (2,4,5-TP)	18.32	18.29	18.35
2,4,5-T	19.23	19.20	19.26
Dinoseb	20.65	20.62	20.68
Picloram	21.99	21.96	22.02
2,4-Dichlorophenylacetic acid	13.99	13.96	14.02

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5890-13\20140509-31952.b\13_59002.D
Lims ID: ccv
Client ID:
Sample Type: CCV
Inject. Date: 12-May-2014 11:08:20 ALS Bottle#: 0 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name: CCV
Misc. Info.: Study: 480-0031952-002 Channel B: I/F Serial#, 4087270795
Operator ID: buftchrom Instrument ID: HP5890-13
Sublist: chrom-8151-13*sub1

Method: \\Bufchrom\ChromData\HP5890-13\20140509-31952.b\8151-13.m
Limit Group: GC - 8151A - ICAL
Last Update: 12-May-2014 13:56:04 Calib Date: 08-Apr-2014 20:10:39
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5890-13\20140405-30802.b\13_57010.D

Column 1 : RTX-CLPI (0.32 mm) Det: Ch-A-13A01239
Column 2 : RTX-CLPII (0.32 mm) Det: Ch-B-13b01239
Process Host: XAWRK049

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
$ 1 2,4-Dichlorophenylacetic acid							
1	12.273	12.273	0.000	374037	0.2500	0.2562	
2	13.987	13.987	0.000	402594	0.2500	0.2694	
						RPD = 5.00	
2 Dalapon							
1	6.007	6.007	0.000	350832	0.2500	0.2390	
2	6.700	6.700	0.000	316185	0.2500	0.2310	
						RPD = 3.43	
3 Dichlorprop							
1	13.433	13.433	0.000	357378	0.2500	0.2446	
2	15.553	15.553	0.000	345146	0.2500	0.2248	
						RPD = 8.40	
4 2,4-D							
1	13.760	13.760	0.000	404382	0.2500	0.2376	
2	16.227	16.227	0.000	387310	0.2500	0.2148	
						RPD = 10.09	
5 Pentachlorophenol							
1	14.233	14.233	0.000	3146846	0.2500	0.2276	
2	17.507	17.507	0.000	3367901	0.2500	0.2323	
						RPD = 2.05	
6 Silvex (2,4,5-TP)							
1	15.087	15.087	0.000	1387254	0.2500	0.2322	
2	18.320	18.320	0.000	1298412	0.2500	0.2163	
						RPD = 7.08	
7 2,4,5-T							
1	15.607	15.607	0.000	1297675	0.2500	0.2118	
2	19.233	19.233	0.000	1210138	0.2500	0.2023	
						RPD = 4.60	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
8 Picloram							
1	19.053	19.053	0.000	607793	0.2500	0.1327	
2	21.993	21.993	0.000	530358	0.2500	0.1168	
						RPD = 12.68	
9 Dinoseb							
1	19.347	19.347	0.000	1000641	0.2500	0.2220	
2	20.653	20.653	0.000	888850	0.2500	0.2231	
						RPD = 0.50	

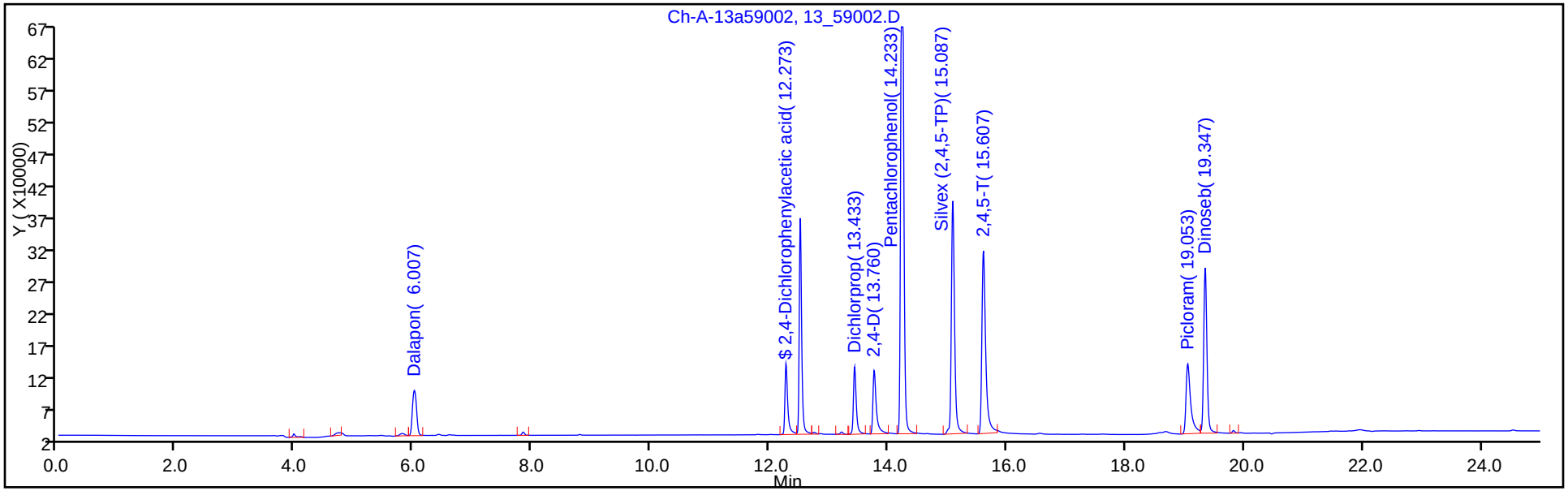
Report Date: 12-May-2014 13:56:05 Chrom Revision: 2.2 14-Apr-2014 13:40:08

TestAmerica Buffalo

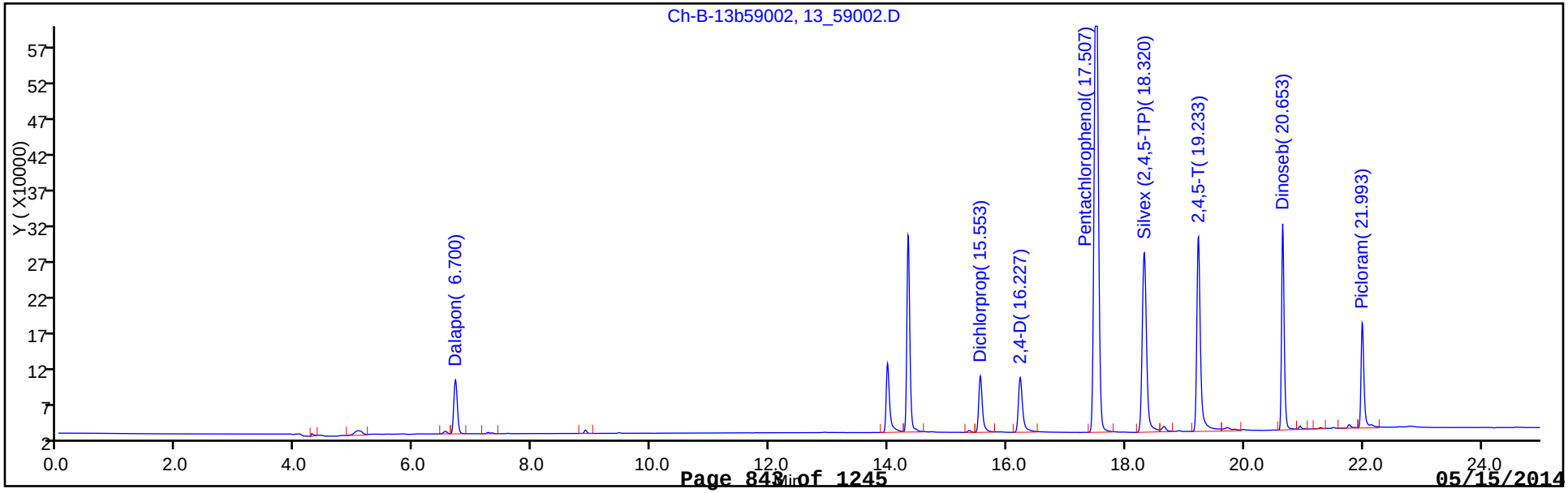
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Injection Date:	12-May-2014 11:08:20	Instrument ID:	HP5890-13	Operator ID:	buftchrom
Lims ID:	ccv			Worklist Smp#:	2
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8151-13	Limit Group:	GC - 8151A - ICAL		

Column: RTX-CLPI (0.32 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-CLPII (0.32 mm) Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
HERBICIDES CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1

SDG No.:

Lab Sample ID: CCV 480-181242/13 Calibration Date: 05/12/2014 16:34

Instrument ID: HP5890-13 Calib Start Date: 04/08/2014 17:12

GC Column: RTX-CLPI ID: 0.32(mm) Calib End Date: 04/08/2014 20:10

Lab File ID: 13_59013.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dalapon	Qua		1450136		0.248	0.250	-0.8	15.0
Dichlorprop	Qua		1426804		0.244	0.250	-2.4	15.0
2,4-D	Qua		1621888		0.238	0.250	-4.7	15.0
Pentachlorophenol	Lin1		12456496		0.225	0.250	-9.9	15.0
Silvex (2,4,5-TP)	Qua		5539724		0.232	0.250	-7.3	15.0
2,4,5-T	Qua		5240092		0.214	0.250	-14.4	15.0
Picloram	Qua		2669568		0.145	0.250	-41.8*	15.0
Dinoseb	Qua		3940388		0.218	0.250	-12.8	15.0
2,4-Dichlorophenylacetic acid	Qua		1458304		0.249	0.250	-0.5	15.0

FORM VII
HERBICIDES CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1

SDG No.:

Lab Sample ID: CCV 480-181242/13 Calibration Date: 05/12/2014 16:34

Instrument ID: HP5890-13 Calib Start Date: 04/08/2014 17:12

GC Column: RTX-CLPI ID: 0.32(mm) Calib End Date: 04/08/2014 20:10

Lab File ID: 13_59013.D

Analyte	RT	RT WINDOW	
		FROM	TO
Dalapon	6.01	5.98	6.04
Dichlorprop	13.43	13.40	13.46
2,4-D	13.77	13.74	13.80
Pentachlorophenol	14.23	14.20	14.26
Silvex (2,4,5-TP)	15.09	15.06	15.12
2,4,5-T	15.61	15.58	15.64
Picloram	19.05	19.02	19.08
Dinoseb	19.35	19.32	19.38
2,4-Dichlorophenylacetic acid	12.27	12.24	12.30

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5890-13\20140509-31952.b\13_59013.D
Lims ID: ccv
Client ID:
Sample Type: CCV
Inject. Date: 12-May-2014 16:34:18 ALS Bottle#: 0 Worklist Smp#: 13
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: Name: CCV
Misc. Info.: Study: 480-0031952-013 Channel B: I/F Serial#, 4087270795
Operator ID: buftchrom Instrument ID: HP5890-13
Sublist: chrom-8151-13*sub1

Method: \\Bufchrom\ChromData\HP5890-13\20140509-31952.b\8151-13.m
Limit Group: GC - 8151A - ICAL
Last Update: 13-May-2014 15:52:19 Calib Date: 08-Apr-2014 20:10:39
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5890-13\20140405-30802.b\13_57010.D

Column 1 : RTX-CLPI (0.32 mm) Det: Ch-A-13A01239
Column 2 : RTX-CLPII (0.32 mm) Det: Ch-B-13b01239
Process Host: XAWRK019

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
$ 1 2,4-Dichlorophenylacetic acid							
1	12.273	12.273	0.000	364576	0.2500	0.2488	
2	13.987	13.987	0.000	373646	0.2500	0.2471	
						RPD = 0.68	
2 Dalapon							
1	6.007	6.007	0.000	362534	0.2500	0.2479	
2	6.700	6.700	0.000	339340	0.2500	0.2498	
						RPD = 0.78	
3 Dichlorprop							
1	13.433	13.433	0.000	356701	0.2500	0.2440	
2	15.553	15.553	0.000	370643	0.2500	0.2439	
						RPD = 0.04	
4 2,4-D							
1	13.767	13.767	0.000	405472	0.2500	0.2383	
2	16.227	16.227	0.000	423227	0.2500	0.2372	
						RPD = 0.47	
5 Pentachlorophenol							
1	14.233	14.233	0.000	3114124	0.2500	0.2252	
2	17.507	17.507	0.000	3321303	0.2500	0.2291	
						RPD = 1.70	
6 Silvex (2,4,5-TP)							
1	15.087	15.087	0.000	1384931	0.2500	0.2318	
2	18.320	18.320	0.000	1426231	0.2500	0.2399	
						RPD = 3.43	
7 2,4,5-T							
1	15.607	15.607	0.000	1310023	0.2500	0.2140	
2	19.233	19.233	0.000	1315322	0.2500	0.2219	
						RPD = 3.59	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
8 Picloram							
1	19.053	19.053	0.000	667392	0.2500	0.1455	
2	21.993	21.993	0.000	615029	0.2500	0.1358	
						RPD = 6.88	
9 Dinoseb							
1	19.347	19.347	0.000	985097	0.2500	0.2180	
2	20.653	20.653	0.000	860553	0.2500	0.2150	
						RPD = 1.40	

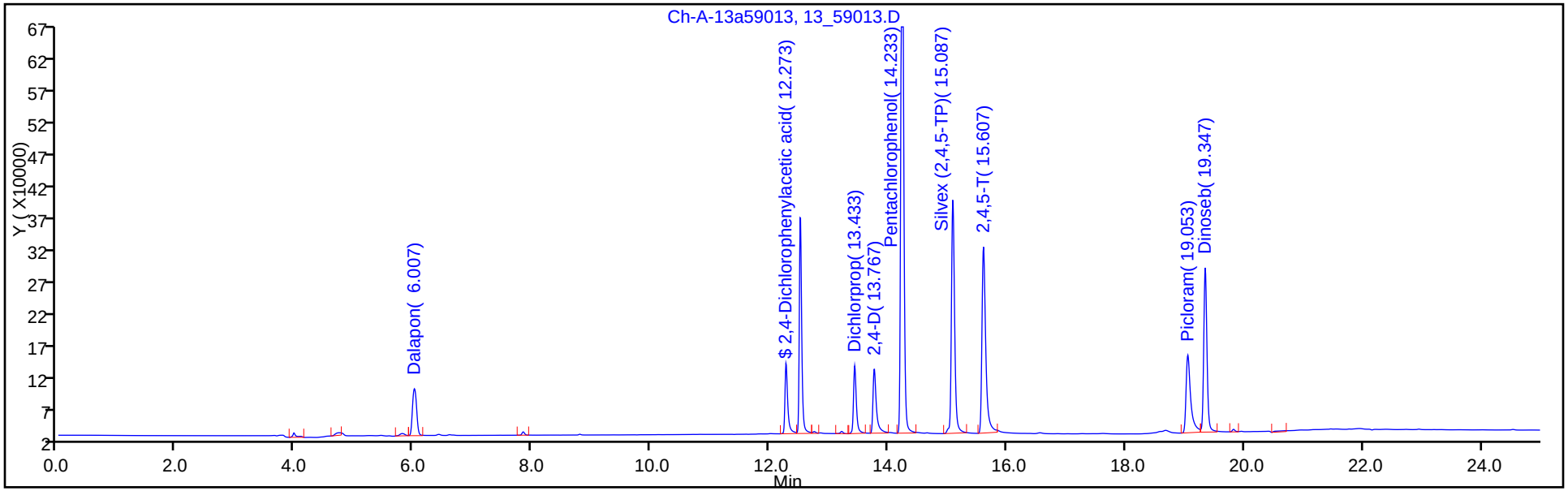
Report Date: 13-May-2014 15:52:19 Chrom Revision: 2.2 14-Apr-2014 13:40:08

TestAmerica Buffalo

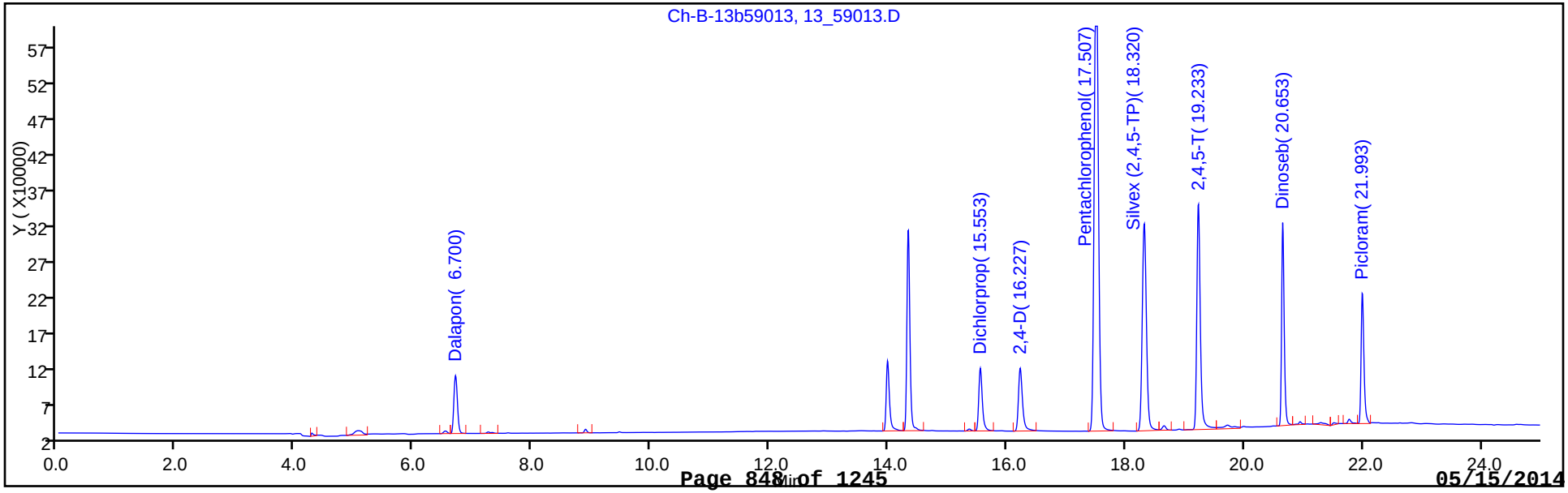
Data File: \\Bufchrom\ChromData\HP5890-13\20140509-31952.b\13_59013.D

Injection Date:	12-May-2014 16:34:18	Instrument ID:	HP5890-13	Operator ID:	buftchrom
Lims ID:	ccv			Worklist Smp#:	13
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8151-13	Limit Group:	GC - 8151A - ICAL		

Column: RTX-CLPI (0.32 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-CLPII (0.32 mm) Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
HERBICIDES CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1

SDG No.:

Lab Sample ID: CCV 480-181242/13 Calibration Date: 05/12/2014 16:34

Instrument ID: HP5890-13 Calib Start Date: 04/08/2014 17:12

GC Column: RTX-CLPII ID: 0.32(mm) Calib End Date: 04/08/2014 20:10

Lab File ID: 13_59013.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dalapon	Qua		1357360		0.250	0.250	-0.0	15.0
Dichlorprop	Qua		1482572		0.244	0.250	-2.4	15.0
2,4-D	Qua		1692908		0.237	0.250	-5.1	15.0
Pentachlorophenol	Lin1		13285212		0.229	0.250	-8.4	15.0
Silvex (2,4,5-TP)	Qua		5704924		0.240	0.250	-4.0	15.0
2,4,5-T	Qua		5261288		0.222	0.250	-11.3	15.0
Dinoseb	Qua		3442212		0.215	0.250	-14.0	15.0
Picloram	Qua		2460116		0.136	0.250	-45.7*	15.0
2,4-Dichlorophenylacetic acid	Qua		1494584		0.247	0.250	-1.2	15.0

FORM VII
HERBICIDES CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1

SDG No.:

Lab Sample ID: CCV 480-181242/13 Calibration Date: 05/12/2014 16:34

Instrument ID: HP5890-13 Calib Start Date: 04/08/2014 17:12

GC Column: RTX-CLPII ID: 0.32(mm) Calib End Date: 04/08/2014 20:10

Lab File ID: 13_59013.D

Analyte	RT	RT WINDOW	
		FROM	TO
Dalapon	6.70	6.67	6.73
Dichlorprop	15.55	15.52	15.58
2,4-D	16.23	16.20	16.26
Pentachlorophenol	17.51	17.48	17.54
Silvex (2,4,5-TP)	18.32	18.29	18.35
2,4,5-T	19.23	19.20	19.26
Dinoseb	20.65	20.62	20.68
Picloram	21.99	21.96	22.02
2,4-Dichlorophenylacetic acid	13.99	13.96	14.02

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5890-13\20140509-31952.b\13_59013.D
Lims ID: ccv
Client ID:
Sample Type: CCV
Inject. Date: 12-May-2014 16:34:18 ALS Bottle#: 0 Worklist Smp#: 13
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: Name: CCV
Misc. Info.: Study: 480-0031952-013 Channel B: I/F Serial#, 4087270795
Operator ID: buftchrom Instrument ID: HP5890-13
Sublist: chrom-8151-13*sub1

Method: \\Bufchrom\ChromData\HP5890-13\20140509-31952.b\8151-13.m
Limit Group: GC - 8151A - ICAL
Last Update: 13-May-2014 15:52:19 Calib Date: 08-Apr-2014 20:10:39
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5890-13\20140405-30802.b\13_57010.D

Column 1 : RTX-CLPI (0.32 mm) Det: Ch-A-13A01239
Column 2 : RTX-CLPII (0.32 mm) Det: Ch-B-13b01239
Process Host: XAWRK019

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
$ 1 2,4-Dichlorophenylacetic acid							
1	12.273	12.273	0.000	364576	0.2500	0.2488	
2	13.987	13.987	0.000	373646	0.2500	0.2471	
						RPD = 0.68	
2 Dalapon							
1	6.007	6.007	0.000	362534	0.2500	0.2479	
2	6.700	6.700	0.000	339340	0.2500	0.2498	
						RPD = 0.78	
3 Dichlorprop							
1	13.433	13.433	0.000	356701	0.2500	0.2440	
2	15.553	15.553	0.000	370643	0.2500	0.2439	
						RPD = 0.04	
4 2,4-D							
1	13.767	13.767	0.000	405472	0.2500	0.2383	
2	16.227	16.227	0.000	423227	0.2500	0.2372	
						RPD = 0.47	
5 Pentachlorophenol							
1	14.233	14.233	0.000	3114124	0.2500	0.2252	
2	17.507	17.507	0.000	3321303	0.2500	0.2291	
						RPD = 1.70	
6 Silvex (2,4,5-TP)							
1	15.087	15.087	0.000	1384931	0.2500	0.2318	
2	18.320	18.320	0.000	1426231	0.2500	0.2399	
						RPD = 3.43	
7 2,4,5-T							
1	15.607	15.607	0.000	1310023	0.2500	0.2140	
2	19.233	19.233	0.000	1315322	0.2500	0.2219	
						RPD = 3.59	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
8 Picloram							
1	19.053	19.053	0.000	667392	0.2500	0.1455	
2	21.993	21.993	0.000	615029	0.2500	0.1358	
						RPD = 6.88	
9 Dinoseb							
1	19.347	19.347	0.000	985097	0.2500	0.2180	
2	20.653	20.653	0.000	860553	0.2500	0.2150	
						RPD = 1.40	

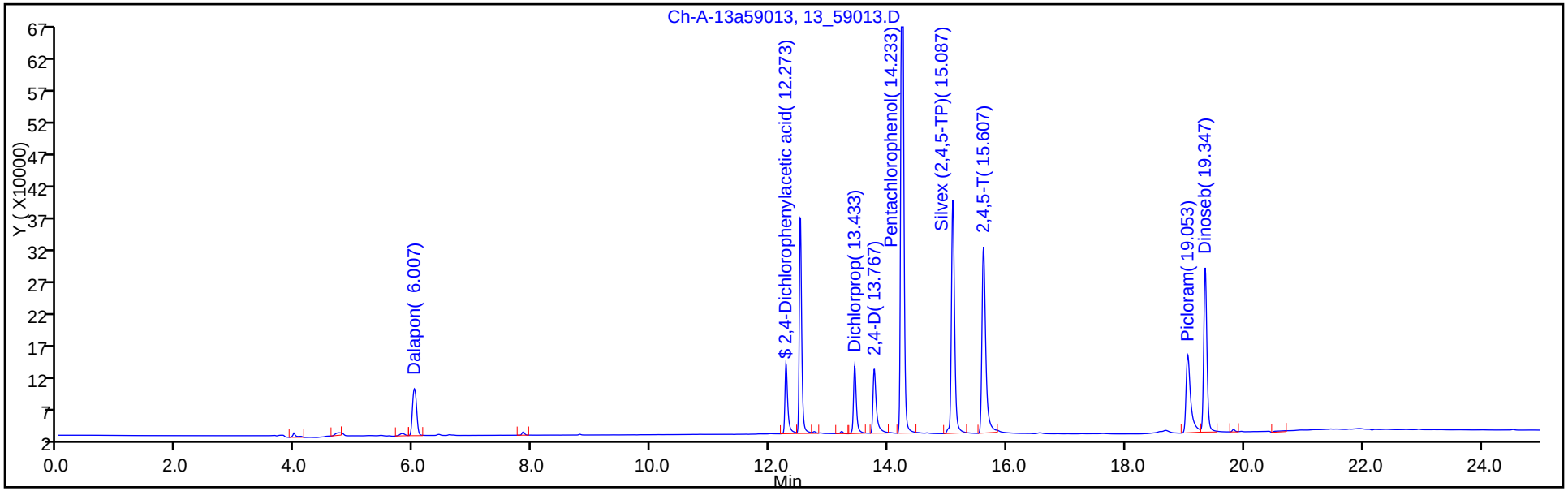
Report Date: 13-May-2014 15:52:19 Chrom Revision: 2.2 14-Apr-2014 13:40:08

TestAmerica Buffalo

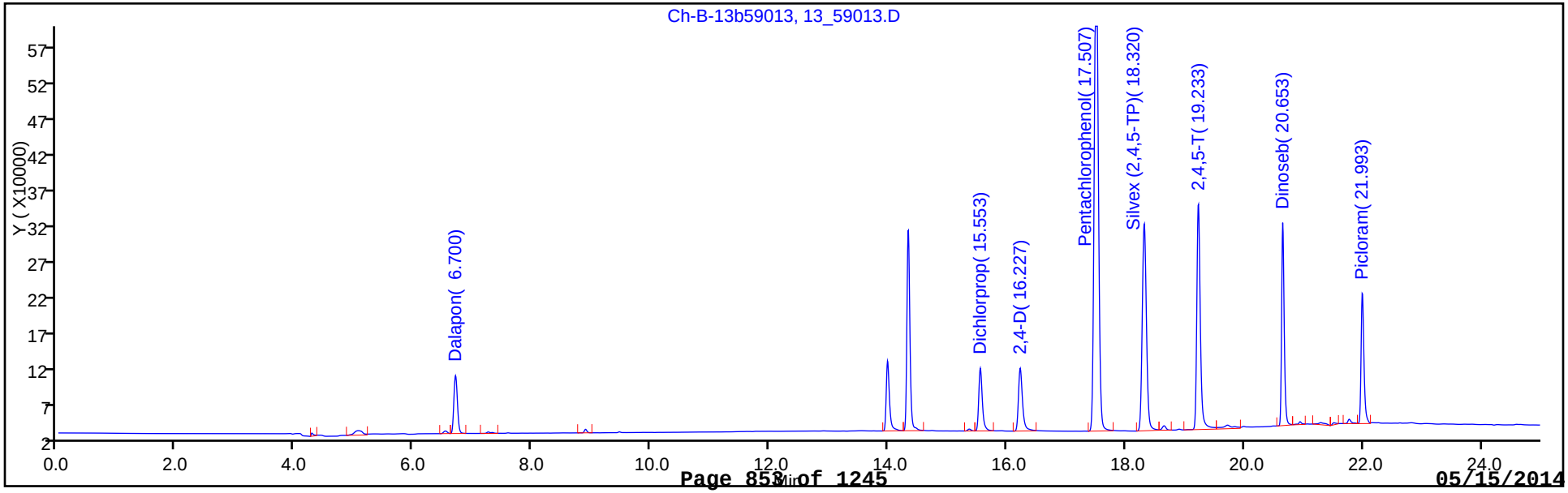
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Injection Date:	12-May-2014 16:34:18	Instrument ID:	HP5890-13	Operator ID:	buftchrom
Lims ID:	ccv			Worklist Smp#:	13
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8151-13	Limit Group:	GC - 8151A - ICAL		

Column: RTX-CLPI (0.32 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-CLPII (0.32 mm) Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
HERBICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-58807-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 480-180800/1-A

Matrix: Solid | Lab File ID: 13_59003.D

Analysis Method: 8151 | Date Collected:

Extraction Method: 8151A | Date Extracted: 05/08/2014 06:41

Sample wt/vol: 1000(mL) | Date Analyzed: 05/12/2014 11:37

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RTX-CLPI ID: 0.32(mm)

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

Analysis Batch No.: 181242 | Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
94-75-7	2,4-D	ND		0.00050	0.00010
93-72-1	Silvex (2,4,5-TP)	ND		0.00050	0.000090

CAS NO.	SURROGATE	%REC	Q	LIMITS
19719-28-9	2,4-Dichlorophenylacetic acid	97		40-135

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5890-13\20140509-31952.b\13_59003.D
Lims ID: MB 480-180800/1-A
Client ID:
Sample Type: MB
Inject. Date: 12-May-2014 11:37:56 ALS Bottle#: 0 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name: MB 480-180800/1-A
Misc. Info.: Study: 480-0031952-003 Channel B: I/F Serial#, 4087270795
Operator ID: buftchrom Instrument ID: HP5890-13

Method: \\Bufchrom\ChromData\HP5890-13\20140509-31952.b\8151-13.m
Limit Group: GC - 8151A - ICAL
Last Update: 12-May-2014 13:56:04 Calib Date: 08-Apr-2014 20:10:39
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5890-13\20140405-30802.b\13_57010.D

Column 1 : RTX-CLPI (0.32 mm) Det: Ch-A-13A01239
Column 2 : RTX-CLPII (0.32 mm) Det: Ch-B-13b01239
Process Host: XAWRK049

First Level Reviewer: RudzG Date: 12-May-2014 13:54:19

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
$ 1 2,4-Dichlorophenylacetic acid							M
1	12.267	12.273	-0.006	641339	0.5000	0.4847	
2	13.980	13.987	-0.007	688375	0.5000	0.5102	M
						RPD = 5.13	

QC Flag Legend

Review Flags
M - Manually Integrated

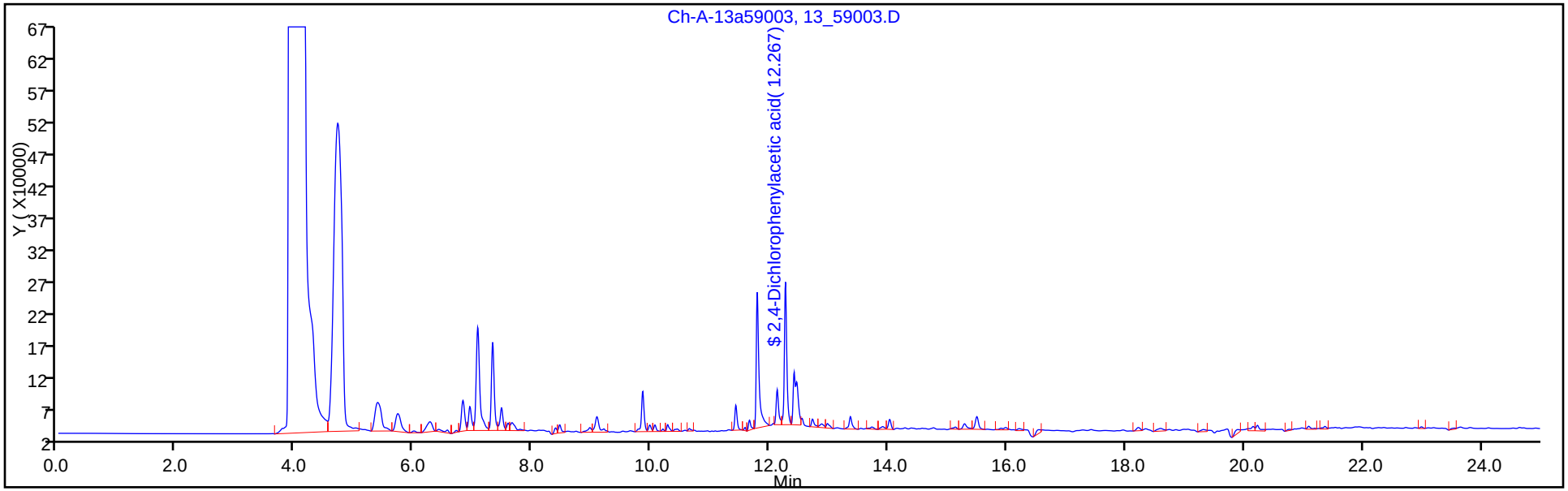
Report Date: 12-May-2014 13:56:06 Chrom Revision: 2.2 14-Apr-2014 13:40:08

TestAmerica Buffalo

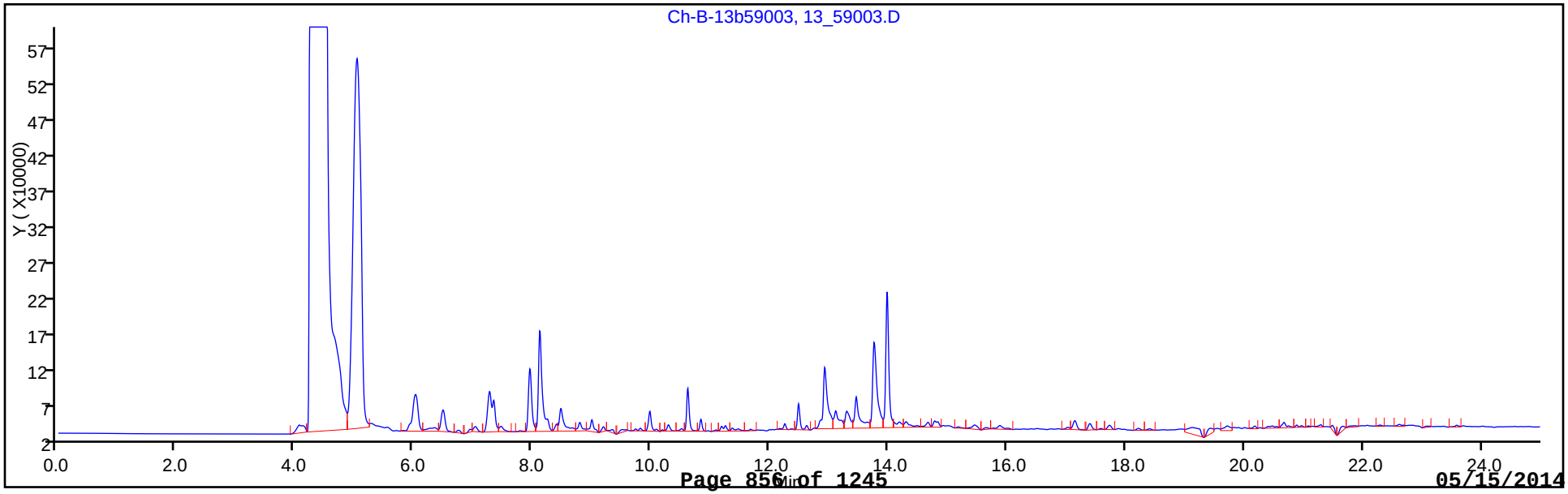
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Injection Date:	12-May-2014 11:37:56	Instrument ID:	HP5890-13	Operator ID:	buftchrom
Lims ID:	MB 480-180800/1-A			Worklist Smp#:	3
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8151-13	Limit Group:	GC - 8151A - ICAL		

Column: RTX-CLPI (0.32 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-CLPII (0.32 mm) Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
HERBICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 480-180800/1-A

Matrix: Solid Lab File ID: 13_59003.D

Analysis Method: 8151 Date Collected:

Extraction Method: 8151A Date Extracted: 05/08/2014 06:41

Sample wt/vol: 1000(mL) Date Analyzed: 05/12/2014 11:37

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: RTX-CLPII ID: 0.32(mm)

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

Analysis Batch No.: 181242 Units: mg/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
19719-28-9	2,4-Dichlorophenylacetic acid	102		40-135

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5890-13\20140509-31952.b\13_59003.D
Lims ID: MB 480-180800/1-A
Client ID:
Sample Type: MB
Inject. Date: 12-May-2014 11:37:56 ALS Bottle#: 0 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name: MB 480-180800/1-A
Misc. Info.: Study: 480-0031952-003 Channel B: I/F Serial#, 4087270795
Operator ID: buftchrom Instrument ID: HP5890-13

Method: \\Bufchrom\ChromData\HP5890-13\20140509-31952.b\8151-13.m
Limit Group: GC - 8151A - ICAL
Last Update: 12-May-2014 13:56:04 Calib Date: 08-Apr-2014 20:10:39
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5890-13\20140405-30802.b\13_57010.D

Column 1 : RTX-CLPI (0.32 mm) Det: Ch-A-13A01239
Column 2 : RTX-CLPII (0.32 mm) Det: Ch-B-13b01239
Process Host: XAWRK049

First Level Reviewer: RudzG Date: 12-May-2014 13:54:19

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
$ 1 2,4-Dichlorophenylacetic acid							M
1	12.267	12.273	-0.006	641339	0.5000	0.4847	
2	13.980	13.987	-0.007	688375	0.5000	0.5102	M
						RPD = 5.13	

QC Flag Legend

Review Flags
M - Manually Integrated

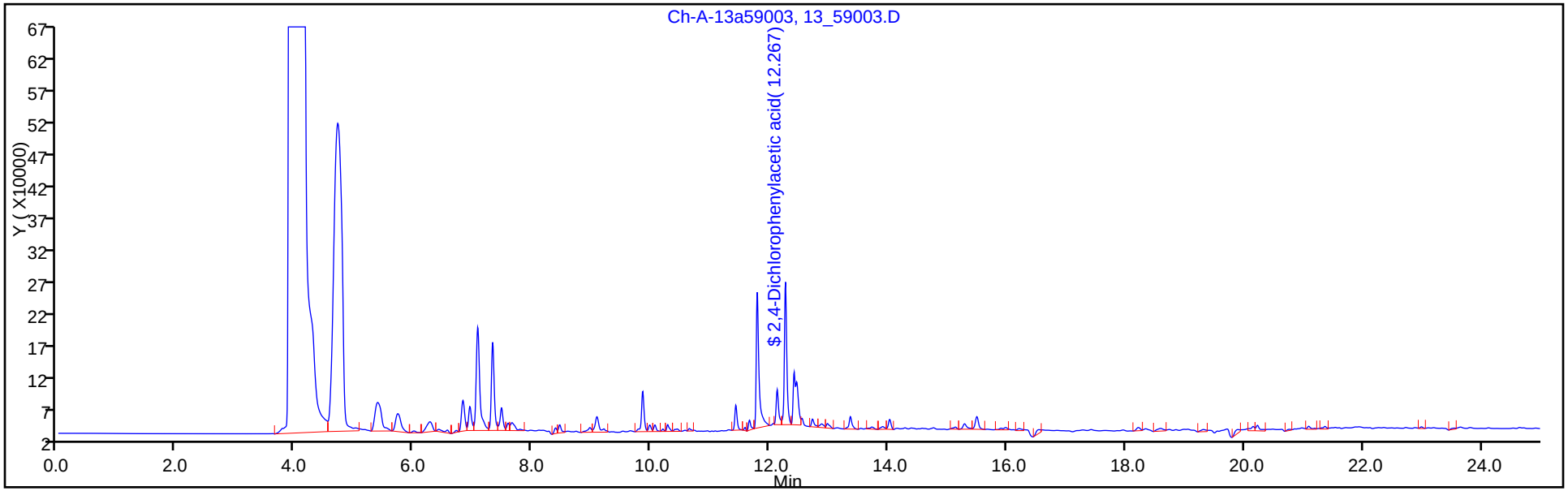
Report Date: 12-May-2014 13:56:06 Chrom Revision: 2.2 14-Apr-2014 13:40:08

TestAmerica Buffalo

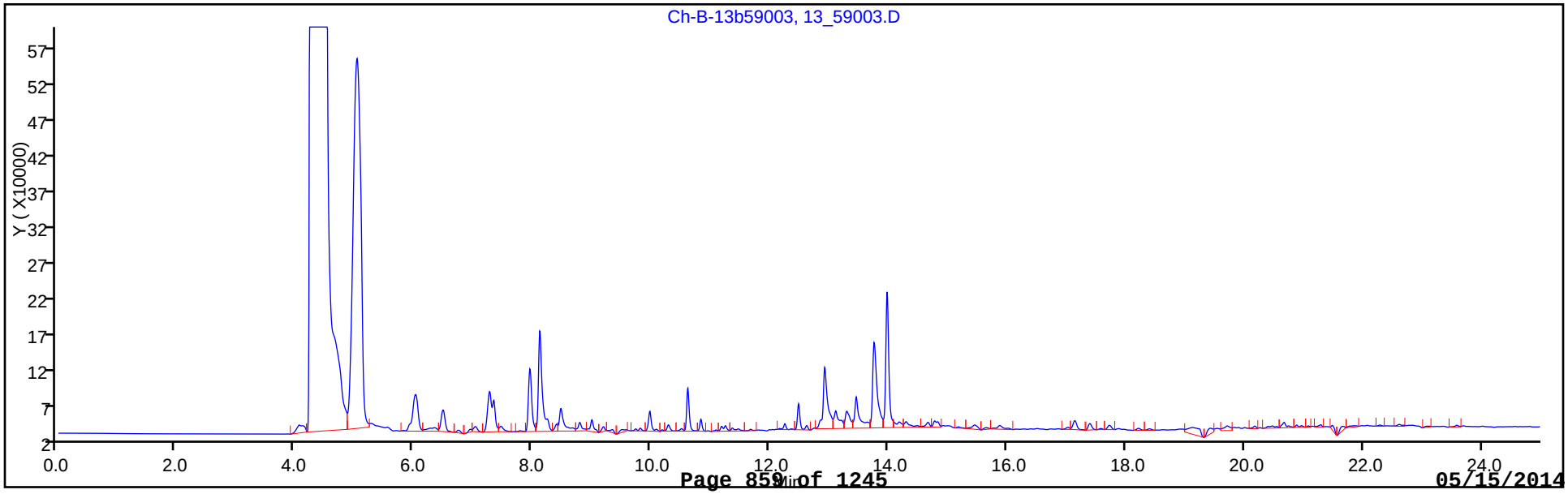
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Injection Date:	12-May-2014 11:37:56	Instrument ID:	HP5890-13	Operator ID:	buftchrom
Lims ID:	MB 480-180800/1-A			Worklist Smp#:	3
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8151-13	Limit Group:	GC - 8151A - ICAL		

Column: RTX-CLPI (0.32 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-CLPII (0.32 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Manual Integration/User Assign Peak Report

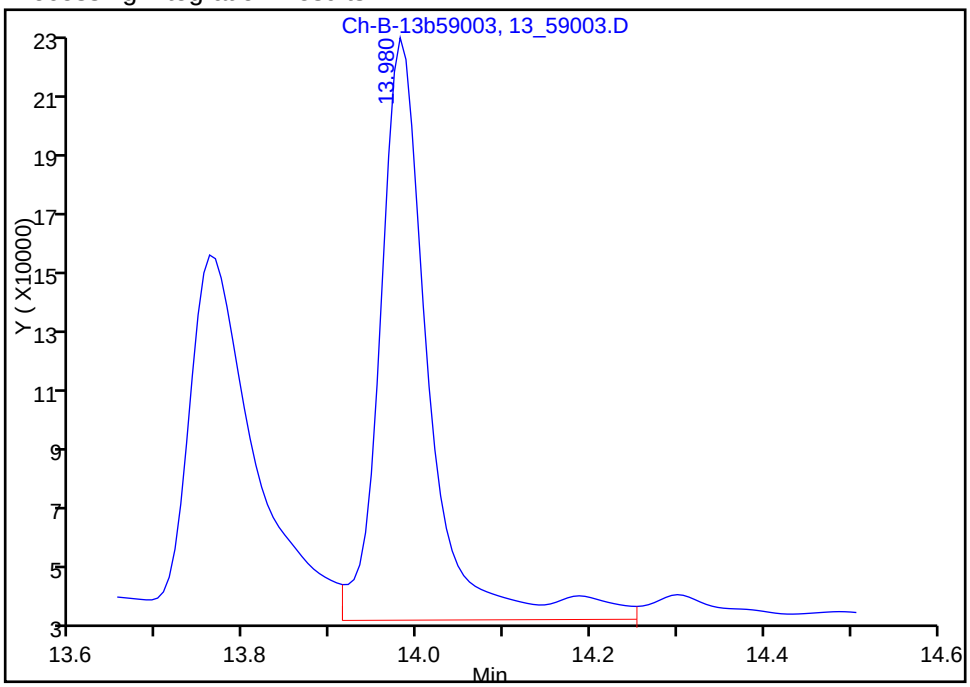
TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5890-13\20140509-31952.b\13_59003.D
Injection Date: 12-May-2014 11:37:56 Instrument ID: HP5890-13
Lims ID: MB 480-180800/1-A
Client ID:
Operator ID: buftchrom ALS Bottle#: 0 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8151-13 Limit Group: GC - 8151A - ICAL
Column: RTX-CLPII (0.32 mm) Detector Ch-B-13b01239

$ 1 2,4-Dichlorophenylacetic acid, CAS: 19719-28-9

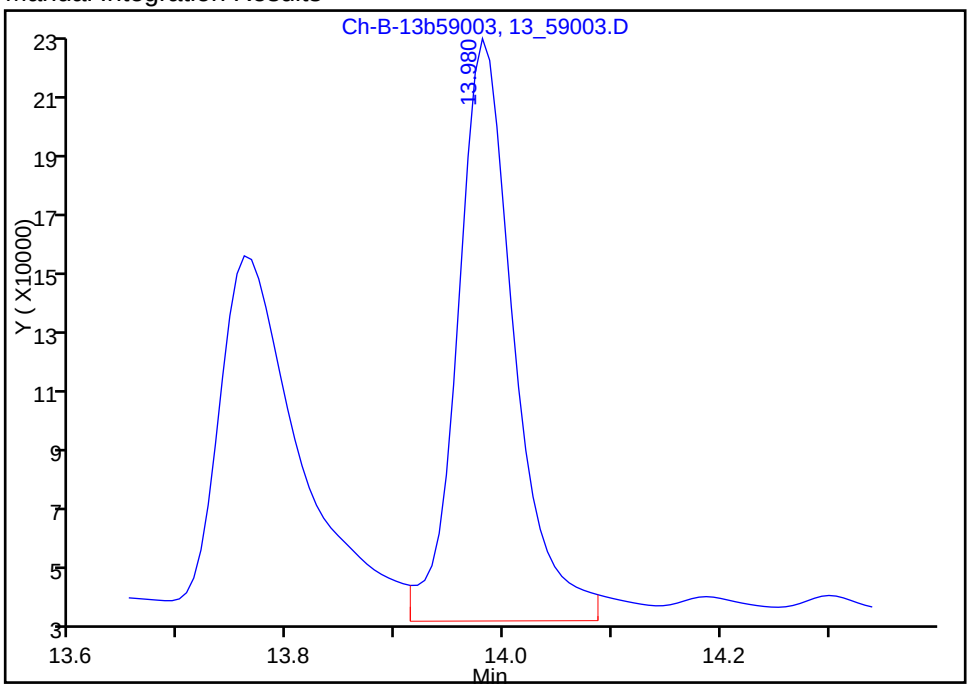
Processing Integration Results

RT: 13.98
Response: 748797
Amount: 0.567321



Manual Integration Results

RT: 13.98
Response: 688375
Amount: 0.510200



Reviewer: RudzG, 12-May-2014 13:55:40
Audit Action: Split an Integrated Peak
Audit Reason: Split Peak

FORM I
HERBICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-58807-1

SDG No.:

Client Sample ID: | Lab Sample ID: LB 480-180381/1-E

Matrix: Solid (TCLP) | Lab File ID: 13_59006.D

Analysis Method: 8151 | Date Collected:

Extraction Method: 8151A | Date Extracted: 05/08/2014 06:41

Sample wt/vol: 250(mL) | Date Analyzed: 05/12/2014 13:06

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RTX-CLPI ID: 0.32(mm)

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

Analysis Batch No.: 181242 | Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
94-75-7	2,4-D	ND		0.0020	0.00040
93-72-1	Silvex (2,4,5-TP)	ND		0.0020	0.00036

CAS NO.	SURROGATE	%REC	Q	LIMITS
19719-28-9	2,4-Dichlorophenylacetic acid	33	X	40-135

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5890-13\20140509-31952.b\13_59006.D
Lims ID: LB 480-180381/1-E
Client ID:
Sample Type: LB
Inject. Date: 12-May-2014 13:06:49 ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: Name: LB 480-180381/1-E
Misc. Info.: Study: 480-0031952-006 Channel B: I/F Serial#, 4087270795
Operator ID: buftchrom Instrument ID: HP5890-13

Method: \\Bufchrom\ChromData\HP5890-13\20140509-31952.b\8151-13.m
Limit Group: GC - 8151A - ICAL
Last Update: 12-May-2014 13:56:04 Calib Date: 08-Apr-2014 20:10:39
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5890-13\20140405-30802.b\13_57010.D

Column 1 : RTX-CLPI (0.32 mm) Det: Ch-A-13A01239
Column 2 : RTX-CLPII (0.32 mm) Det: Ch-B-13b01239
Process Host: XAWRK049

First Level Reviewer: RudzG Date: 12-May-2014 13:55:05

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
$ 1	2,4-Dichlorophenylacetic acid						M
1	12.267	12.273	-0.006	254642	0.5000	0.1649	
2	13.980	13.987	-0.007	270353	0.5000	0.1702	M
						RPD = 3.17	

QC Flag Legend

Review Flags
M - Manually Integrated

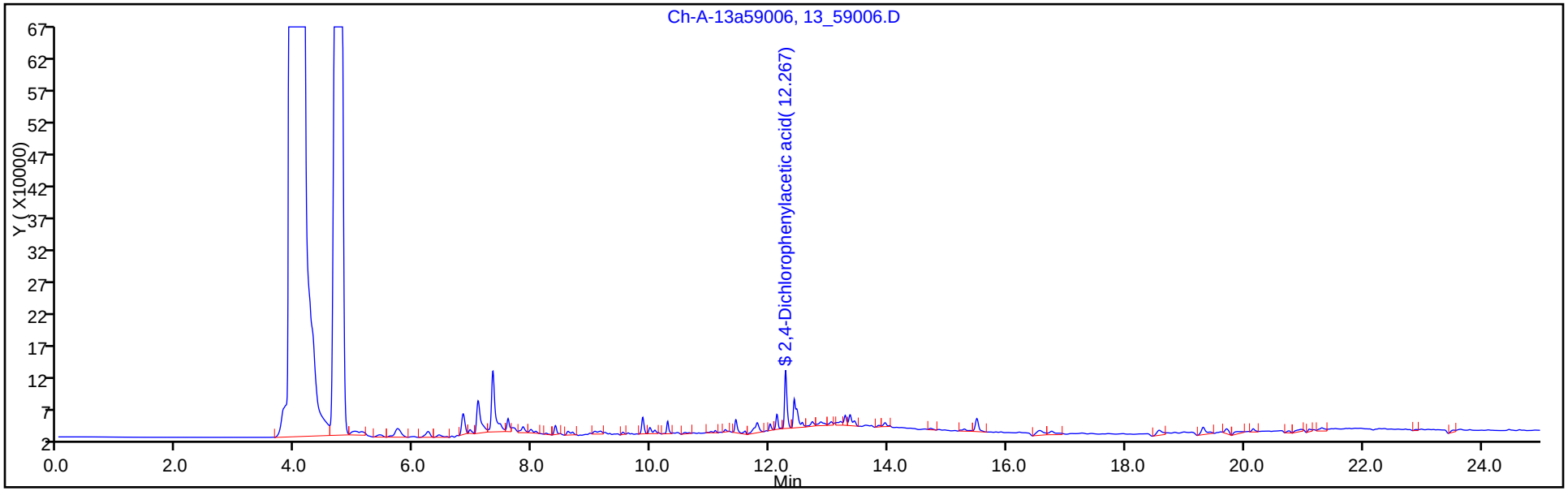
Report Date: 12-May-2014 13:56:10 Chrom Revision: 2.2 14-Apr-2014 13:40:08

TestAmerica Buffalo

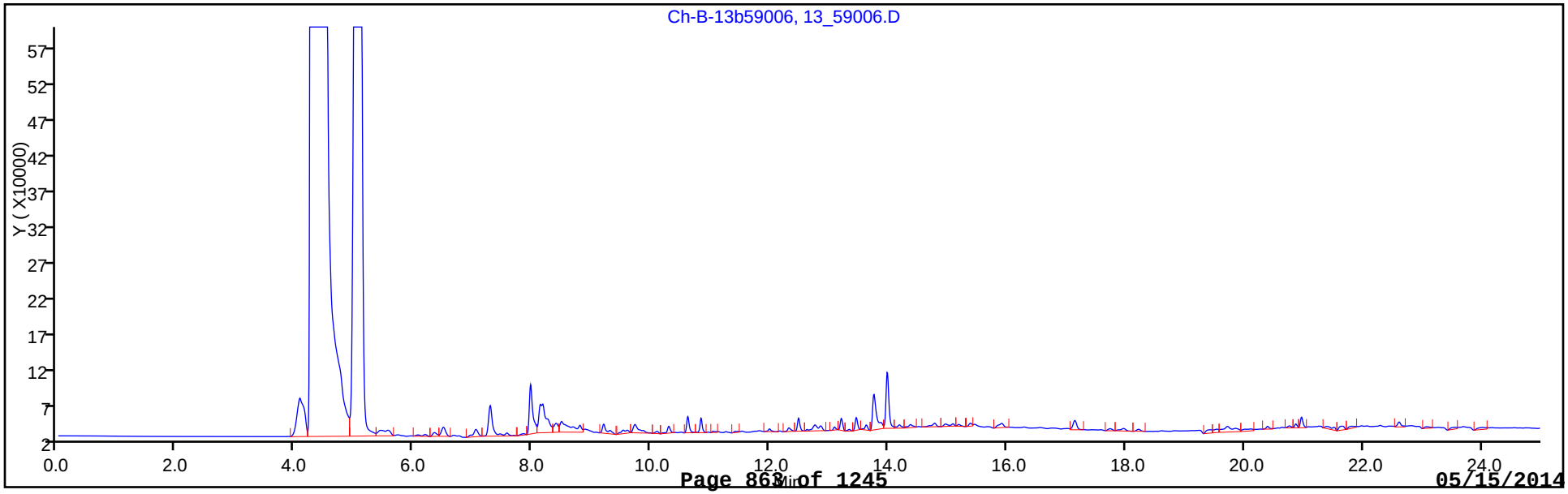
Data File: \\Bufchrom\ChromData\HP5890-13\20140509-31952.b\13_59006.D

Injection Date:	12-May-2014 13:06:49	Instrument ID:	HP5890-13	Operator ID:	buftchrom
Lims ID:	LB 480-180381/1-E			Worklist Smp#:	6
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8151-13	Limit Group:	GC - 8151A - ICAL		

Column: RTX-CLPI (0.32 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-CLPII (0.32 mm) Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
HERBICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1

SDG No.:

Client Sample ID: Lab Sample ID: LB 480-180381/1-E

Matrix: Solid (TCLP) Lab File ID: 13_59006.D

Analysis Method: 8151 Date Collected:

Extraction Method: 8151A Date Extracted: 05/08/2014 06:41

Sample wt/vol: 250(mL) Date Analyzed: 05/12/2014 13:06

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: RTX-CLPII ID: 0.32(mm)

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

Analysis Batch No.: 181242 Units: mg/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
19719-28-9	2,4-Dichlorophenylacetic acid	34	X	40-135

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5890-13\20140509-31952.b\13_59006.D
Lims ID: LB 480-180381/1-E
Client ID:
Sample Type: LB
Inject. Date: 12-May-2014 13:06:49 ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: Name: LB 480-180381/1-E
Misc. Info.: Study: 480-0031952-006 Channel B: I/F Serial#, 4087270795
Operator ID: buftchrom Instrument ID: HP5890-13

Method: \\Bufchrom\ChromData\HP5890-13\20140509-31952.b\8151-13.m
Limit Group: GC - 8151A - ICAL
Last Update: 12-May-2014 13:56:04 Calib Date: 08-Apr-2014 20:10:39
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5890-13\20140405-30802.b\13_57010.D

Column 1 : RTX-CLPI (0.32 mm) Det: Ch-A-13A01239
Column 2 : RTX-CLPII (0.32 mm) Det: Ch-B-13b01239
Process Host: XAWRK049

First Level Reviewer: RudzG Date: 12-May-2014 13:55:05

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
$ 1 2,4-Dichlorophenylacetic acid							M
1	12.267	12.273	-0.006	254642	0.5000	0.1649	
2	13.980	13.987	-0.007	270353	0.5000	0.1702	M
						RPD = 3.17	

QC Flag Legend

Review Flags
M - Manually Integrated

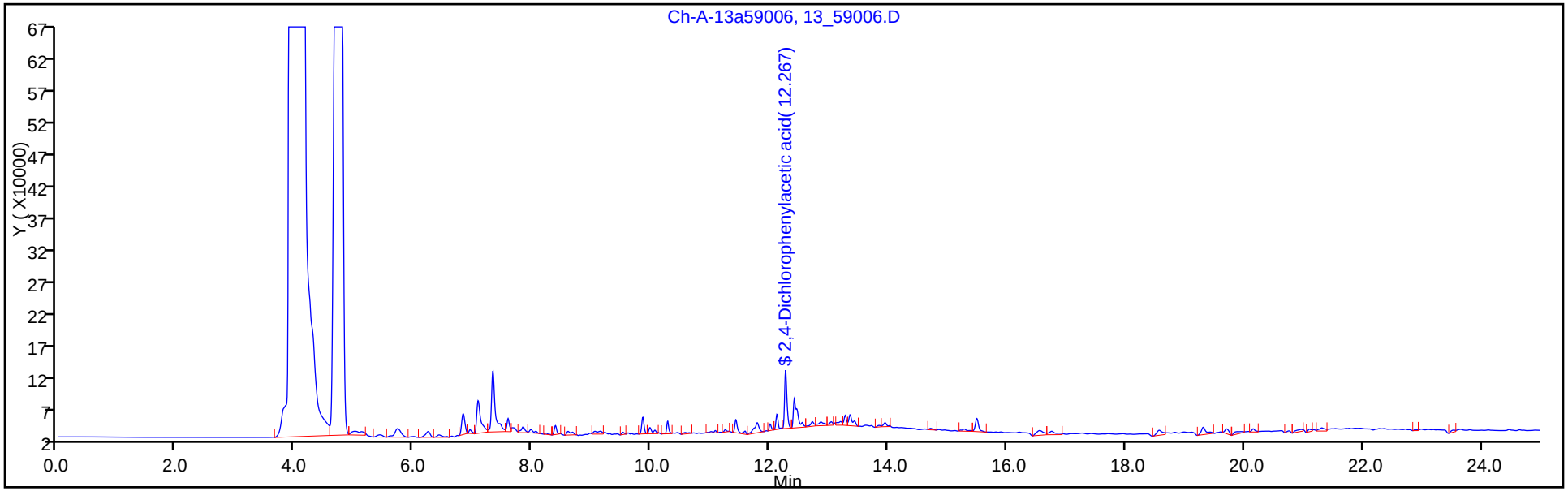
Report Date: 12-May-2014 13:56:10 Chrom Revision: 2.2 14-Apr-2014 13:40:08

TestAmerica Buffalo

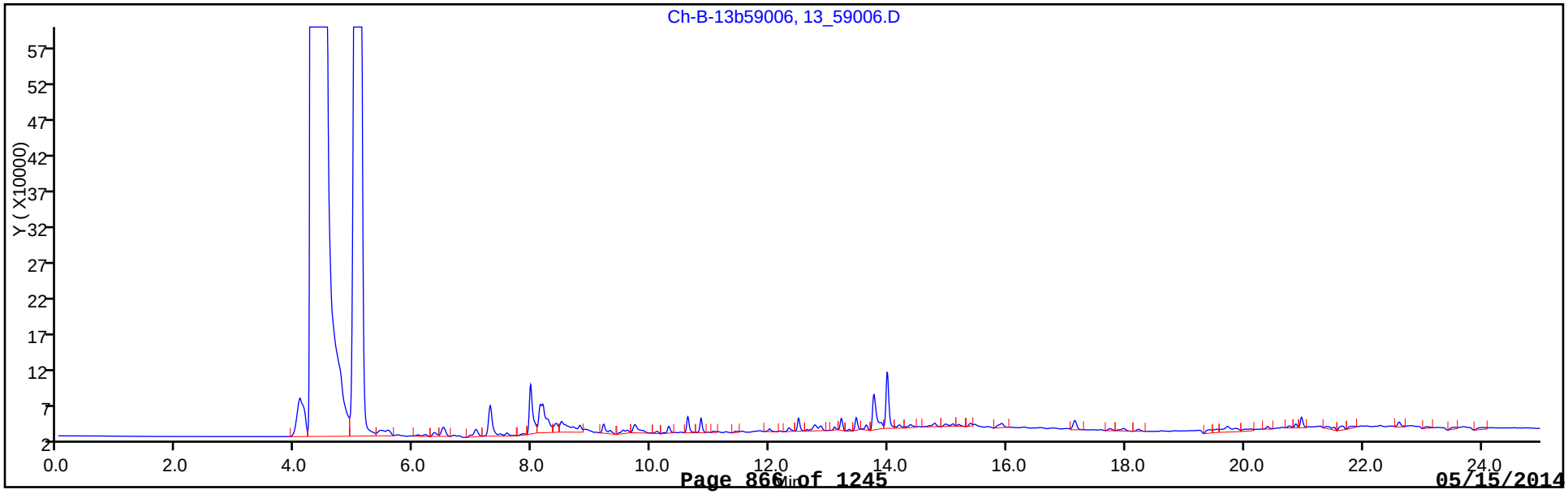
Data File: \\Bufchrom\ChromData\HP5890-13\20140509-31952.b\13_59006.D

Injection Date:	12-May-2014 13:06:49	Instrument ID:	HP5890-13	Operator ID:	buftchrom
Lims ID:	LB 480-180381/1-E			Worklist Smp#:	6
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8151-13	Limit Group:	GC - 8151A - ICAL		

Column: RTX-CLPI (0.32 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-CLPII (0.32 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Manual Integration/User Assign Peak Report

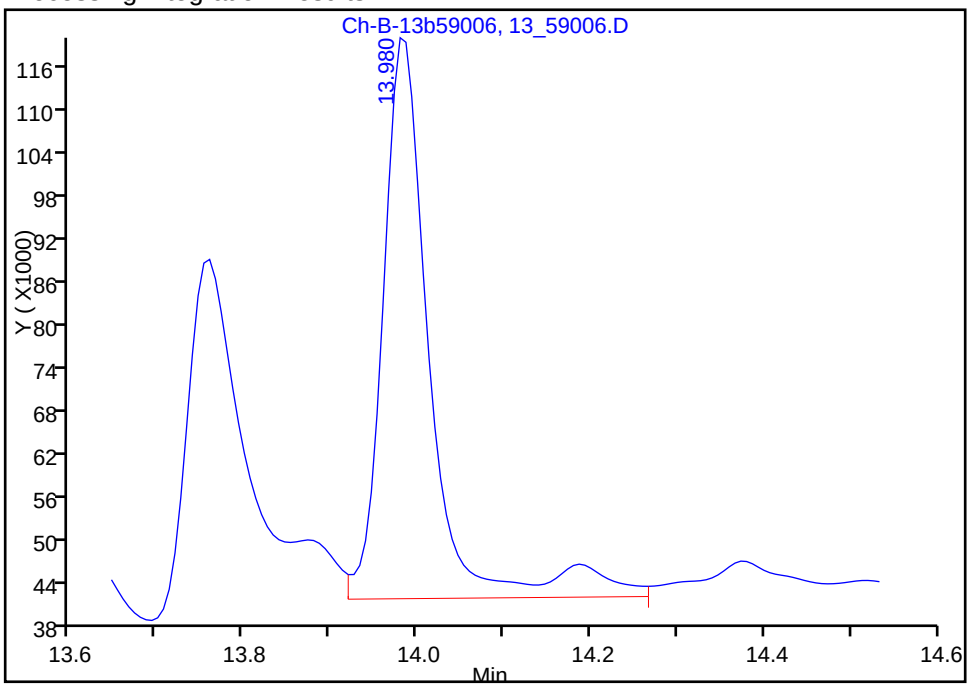
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP5890-13\20140509-31952.b\13_59006.D				
Injection Date:	12-May-2014 13:06:49	Instrument ID:	HP5890-13		
Lims ID:	LB 480-180381/1-E				
Client ID:					
Operator ID:	buftchrom	ALS Bottle#:	0	Worklist Smp#:	6
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8151-13	Limit Group:	GC - 8151A - ICAL		
Column:	RTX-CLPII (0.32 mm)	Detector	Ch-B-13b01239		

$ 1 2,4-Dichlorophenylacetic acid, CAS: 19719-28-9

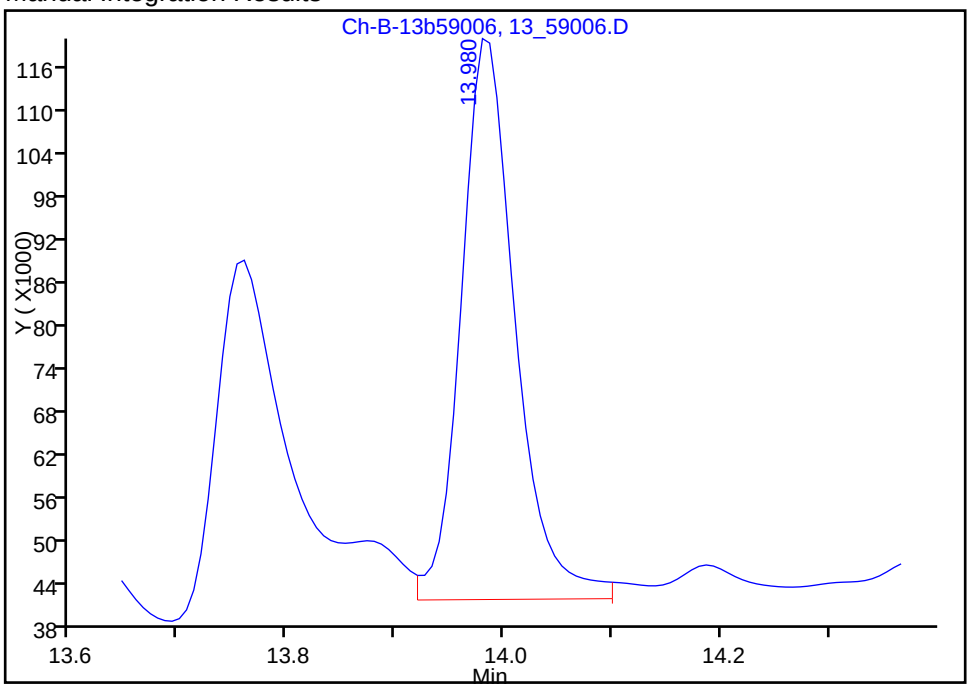
Processing Integration Results

RT: 13.98
Response: 295865
Amount: 0.188850



Manual Integration Results

RT: 13.98
Response: 270353
Amount: 0.170207



Reviewer: RudzG, 12-May-2014 13:55:05
Audit Action: Split an Integrated Peak
Audit Reason: Split Peak

FORM I
HERBICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-58807-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 480-180800/2-A

Matrix: Solid | Lab File ID: 13_59004.D

Analysis Method: 8151 | Date Collected:

Extraction Method: 8151A | Date Extracted: 05/08/2014 06:41

Sample wt/vol: 1000(mL) | Date Analyzed: 05/12/2014 12:07

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RTX-CLPI ID: 0.32(mm)

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

Analysis Batch No.: 181242 | Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
94-75-7	2,4-D	0.00138		0.00050	0.00010
93-72-1	Silvex (2,4,5-TP)	0.00153		0.00050	0.000090

CAS NO.	SURROGATE	%REC	Q	LIMITS
19719-28-9	2,4-Dichlorophenylacetic acid	104		40-135

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5890-13\20140509-31952.b\13_59004.D
Lims ID: LCS 480-180800/2-A
Client ID:
Sample Type: LCS
Inject. Date: 12-May-2014 12:07:31 ALS Bottle#: 0 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: Name: LCS 480-180800/2-A
Misc. Info.: Study: 480-0031952-004 Channel B: I/F Serial#, 4087270795
Operator ID: buftchrom Instrument ID: HP5890-13

Method: \\Bufchrom\ChromData\HP5890-13\20140509-31952.b\8151-13.m
Limit Group: GC - 8151A - ICAL
Last Update: 12-May-2014 13:56:04 Calib Date: 08-Apr-2014 20:10:39
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5890-13\20140405-30802.b\13_57010.D

Column 1 : RTX-CLPI (0.32 mm) Det: Ch-A-13A01239
Column 2 : RTX-CLPII (0.32 mm) Det: Ch-B-13b01239
Process Host: XAWRK049

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
$ 1 2,4-Dichlorophenylacetic acid							
1	12.267	12.273	-0.006	680081	0.5000	0.5214	
2	13.980	13.987	-0.007	703590	0.5000	0.5243	
						RPD = 0.57	
2 Dalapon							
1	6.000	6.007	-0.007	245442	0.2000	0.1608	
2	6.693	6.700	-0.007	264471	0.2000	0.1895	
						RPD = 16.35	
3 Dichlorprop							
1	13.427	13.433	-0.006	265244	0.2000	0.1741	
2	15.547	15.553	-0.006	315584	0.2000	0.2030	
						RPD = 15.30	
4 2,4-D							
1	13.753	13.760	-0.007	246763	0.2000	0.1377	
2	16.220	16.227	-0.007	306774	0.2000	0.1656	
						RPD = 18.39	
5 Pentachlorophenol							
1	14.233	14.233	0.000	2093288	0.2000	0.1499	
2	17.507	17.507	0.000	2240596	0.2000	0.1533	
						RPD = 2.27	
6 Silvex (2,4,5-TP)							
1	15.087	15.087	0.000	953179	0.2000	0.1535	
2	18.313	18.320	-0.007	997939	0.2000	0.1622	
						RPD = 5.53	
7 2,4,5-T							
1	15.600	15.607	-0.007	889031	0.2000	0.1410	
2	19.227	19.233	-0.006	918981	0.2000	0.1496	
						RPD = 5.89	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
8 Picloram							
1	19.040	19.053	-0.013	529548	0.2000	0.1159	
2	21.993	21.993	0.000	590676	0.2000	0.1303	
						RPD = 11.70	
9 Dinoseb							
1	19.347	19.347	0.000	280902	0.2000	0.0476	
2	20.653	20.653	0.000	244881	0.2000	0.0475	
						RPD = 0.34	

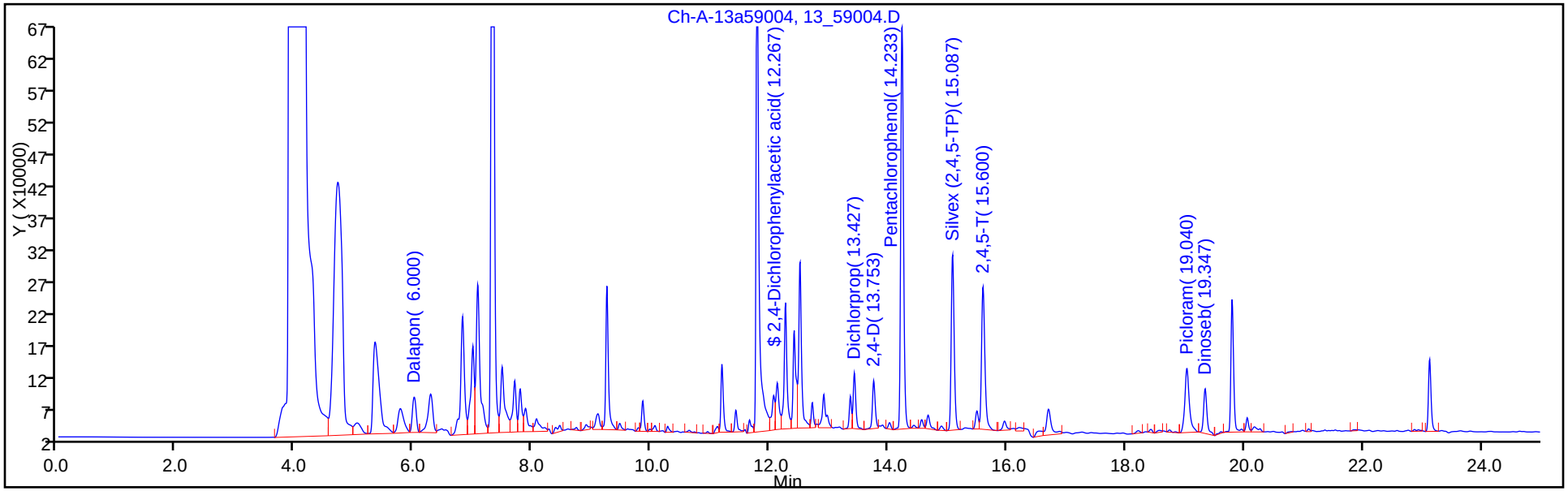
Report Date: 12-May-2014 13:56:07 Chrom Revision: 2.2 14-Apr-2014 13:40:08

TestAmerica Buffalo

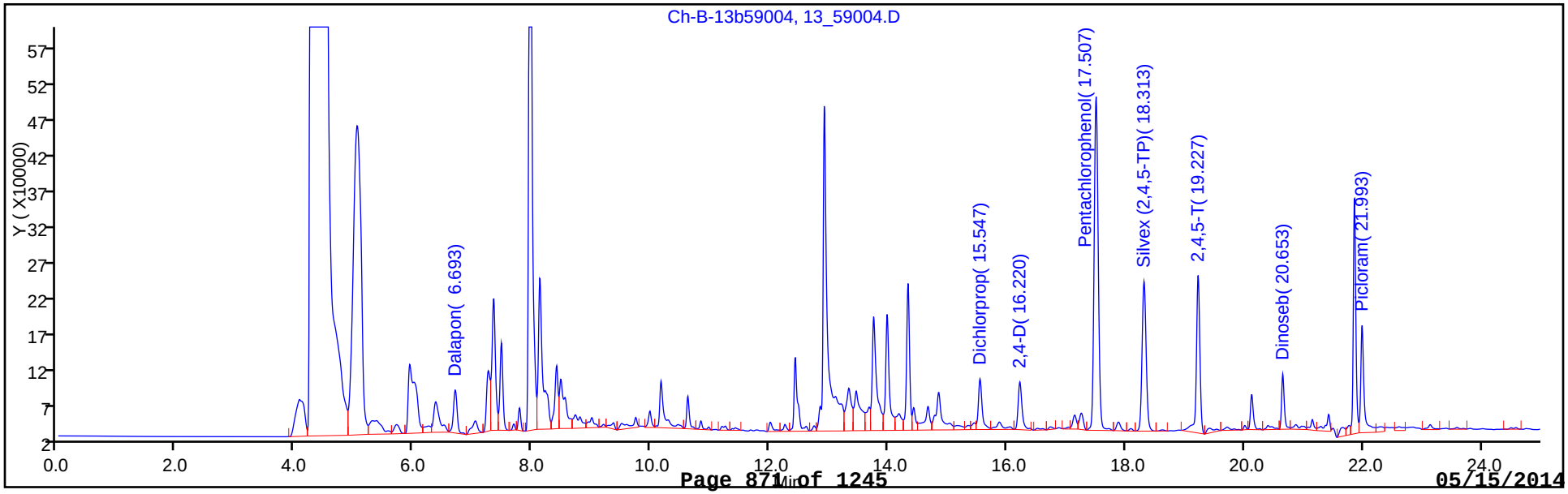
Data File: \\Bufchrom\ChromData\HP5890-13\20140509-31952.b\13_59004.D

Injection Date:	12-May-2014 12:07:31	Instrument ID:	HP5890-13	Operator ID:	buftchrom
Lims ID:	LCS 480-180800/2-A			Worklist Smp#:	4
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8151-13	Limit Group:	GC - 8151A - ICAL		

Column: RTX-CLPI (0.32 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-CLPII (0.32 mm) Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
HERBICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 480-180800/2-A

Matrix: Solid Lab File ID: 13_59004.D

Analysis Method: 8151 Date Collected:

Extraction Method: 8151A Date Extracted: 05/08/2014 06:41

Sample wt/vol: 1000(mL) Date Analyzed: 05/12/2014 12:07

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: RTX-CLPII ID: 0.32(mm)

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

Analysis Batch No.: 181242 Units: mg/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
19719-28-9	2,4-Dichlorophenylacetic acid	105		40-135

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5890-13\20140509-31952.b\13_59004.D
Lims ID: LCS 480-180800/2-A
Client ID:
Sample Type: LCS
Inject. Date: 12-May-2014 12:07:31 ALS Bottle#: 0 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: Name: LCS 480-180800/2-A
Misc. Info.: Study: 480-0031952-004 Channel B: I/F Serial#, 4087270795
Operator ID: buftchrom Instrument ID: HP5890-13

Method: \\Bufchrom\ChromData\HP5890-13\20140509-31952.b\8151-13.m
Limit Group: GC - 8151A - ICAL
Last Update: 12-May-2014 13:56:04 Calib Date: 08-Apr-2014 20:10:39
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5890-13\20140405-30802.b\13_57010.D

Column 1 : RTX-CLPI (0.32 mm) Det: Ch-A-13A01239
Column 2 : RTX-CLPII (0.32 mm) Det: Ch-B-13b01239
Process Host: XAWRK049

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
$ 1 2,4-Dichlorophenylacetic acid							
1	12.267	12.273	-0.006	680081	0.5000	0.5214	
2	13.980	13.987	-0.007	703590	0.5000	0.5243	
						RPD = 0.57	
2 Dalapon							
1	6.000	6.007	-0.007	245442	0.2000	0.1608	
2	6.693	6.700	-0.007	264471	0.2000	0.1895	
						RPD = 16.35	
3 Dichlorprop							
1	13.427	13.433	-0.006	265244	0.2000	0.1741	
2	15.547	15.553	-0.006	315584	0.2000	0.2030	
						RPD = 15.30	
4 2,4-D							
1	13.753	13.760	-0.007	246763	0.2000	0.1377	
2	16.220	16.227	-0.007	306774	0.2000	0.1656	
						RPD = 18.39	
5 Pentachlorophenol							
1	14.233	14.233	0.000	2093288	0.2000	0.1499	
2	17.507	17.507	0.000	2240596	0.2000	0.1533	
						RPD = 2.27	
6 Silvex (2,4,5-TP)							
1	15.087	15.087	0.000	953179	0.2000	0.1535	
2	18.313	18.320	-0.007	997939	0.2000	0.1622	
						RPD = 5.53	
7 2,4,5-T							
1	15.600	15.607	-0.007	889031	0.2000	0.1410	
2	19.227	19.233	-0.006	918981	0.2000	0.1496	
						RPD = 5.89	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
8 Picloram							
1	19.040	19.053	-0.013	529548	0.2000	0.1159	
2	21.993	21.993	0.000	590676	0.2000	0.1303	
						RPD = 11.70	
9 Dinoseb							
1	19.347	19.347	0.000	280902	0.2000	0.0476	
2	20.653	20.653	0.000	244881	0.2000	0.0475	
						RPD = 0.34	

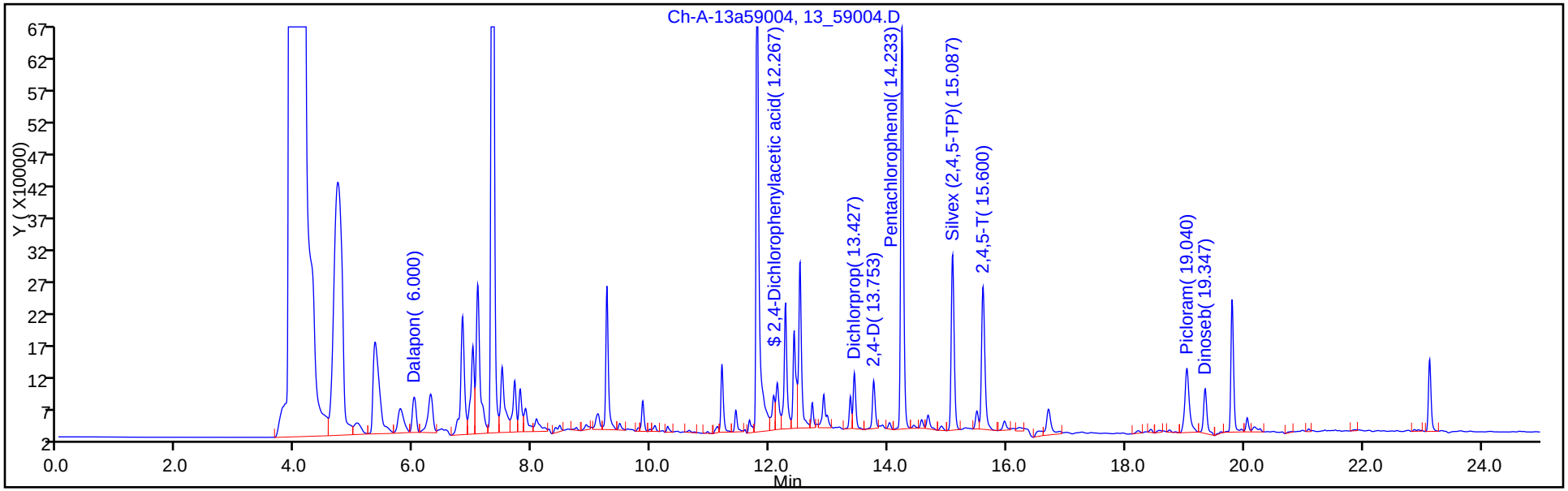
Report Date: 12-May-2014 13:56:08 Chrom Revision: 2.2 14-Apr-2014 13:40:08

TestAmerica Buffalo

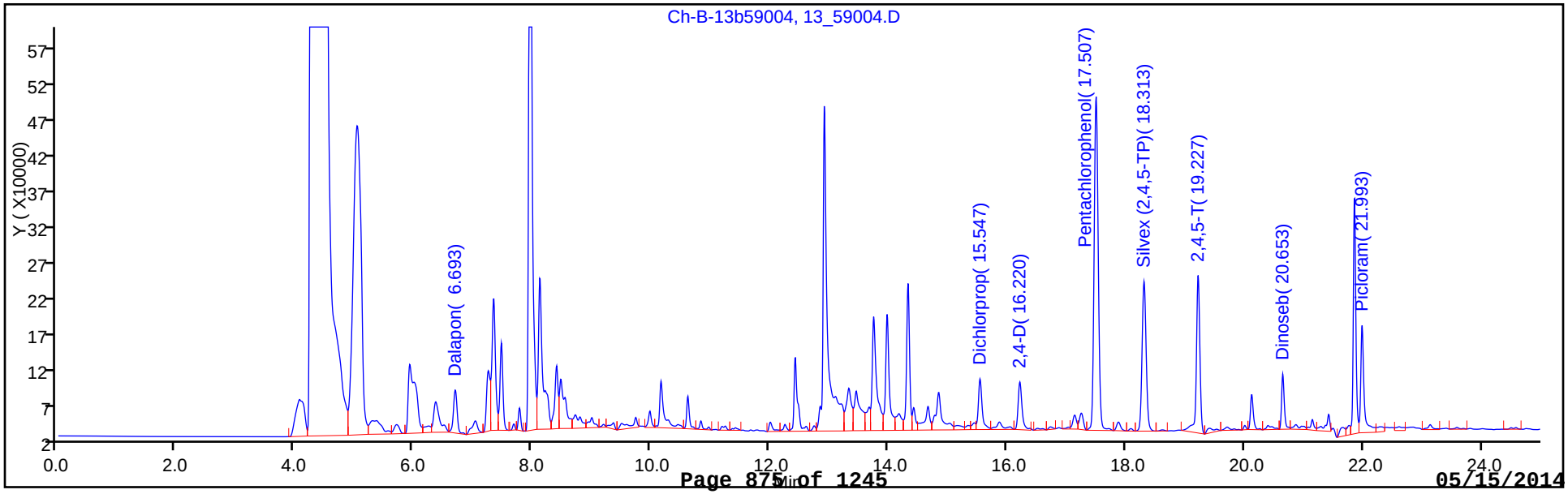
Data File: \\Bufchrom\ChromData\HP5890-13\20140509-31952.b\13_59004.D

Injection Date:	12-May-2014 12:07:31	Instrument ID:	HP5890-13	Operator ID:	buftchrom
Lims ID:	LCS 480-180800/2-A			Worklist Smp#:	4
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8151-13	Limit Group:	GC - 8151A - ICAL		

Column: RTX-CLPI (0.32 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-CLPII (0.32 mm) Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
HERBICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-58807-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCSD 480-180800/3-A

Matrix: Solid | Lab File ID: 13_59005.D

Analysis Method: 8151 | Date Collected:

Extraction Method: 8151A | Date Extracted: 05/08/2014 06:41

Sample wt/vol: 1000(mL) | Date Analyzed: 05/12/2014 12:37

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RTX-CLPI ID: 0.32(mm)

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

Analysis Batch No.: 181242 | Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
94-75-7	2,4-D	0.00189		0.00050	0.00010
93-72-1	Silvex (2,4,5-TP)	0.00171		0.00050	0.000090

CAS NO.	SURROGATE	%REC	Q	LIMITS
19719-28-9	2,4-Dichlorophenylacetic acid	99		40-135

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5890-13\20140509-31952.b\13_59005.D
Lims ID: LCSD 480-180800/3-A
Client ID:
Sample Type: LCSD
Inject. Date: 12-May-2014 12:37:12 ALS Bottle#: 0 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: Name: LCSD 480-180800/3-A
Misc. Info.: Study: 480-0031952-005 Channel B: I/F Serial#, 4087270795
Operator ID: buftchrom Instrument ID: HP5890-13

Method: \\Bufchrom\ChromData\HP5890-13\20140509-31952.b\8151-13.m
Limit Group: GC - 8151A - ICAL
Last Update: 12-May-2014 13:56:04 Calib Date: 08-Apr-2014 20:10:39
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5890-13\20140405-30802.b\13_57010.D

Column 1 : RTX-CLPI (0.32 mm) Det: Ch-A-13A01239
Column 2 : RTX-CLPII (0.32 mm) Det: Ch-B-13b01239
Process Host: XAWRK049

First Level Reviewer: RudzG Date: 12-May-2014 11:08:04

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
$ 1 2,4-Dichlorophenylacetic acid							M
1	12.267	12.273	-0.006	654124	0.5000	0.4967	
2	13.980	13.987	-0.007	613336	0.5000	0.4427	M
						RPD = 11.49	
2 Dalapon							
1	6.000	6.007	-0.007	292786	0.2000	0.1956	
2	6.700	6.700	0.000	293659	0.2000	0.2128	
						RPD = 8.43	
3 Dichlorprop							
1	13.427	13.433	-0.006	294885	0.2000	0.1965	
2	15.547	15.553	-0.006	316231	0.2000	0.2035	
						RPD = 3.51	
4 2,4-D							
1	13.753	13.760	-0.007	328833	0.2000	0.1890	
2	16.220	16.227	-0.007	328241	0.2000	0.1786	
						RPD = 5.69	
5 Pentachlorophenol							
1	14.233	14.233	0.000	2260777	0.2000	0.1622	
2	17.507	17.507	0.000	2418204	0.2000	0.1657	
						RPD = 2.15	
6 Silvex (2,4,5-TP)							
1	15.087	15.087	0.000	1050669	0.2000	0.1708	
2	18.313	18.320	-0.007	1088048	0.2000	0.1783	
						RPD = 4.30	
7 2,4,5-T							
1	15.600	15.607	-0.007	1027328	0.2000	0.1647	
2	19.227	19.233	-0.006	996024	0.2000	0.1634	
						RPD = 0.79	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
8 Picloram							
1	19.033	19.053	-0.020	649643	0.2000	0.1417	
2	21.993	21.993	0.000	649505	0.2000	0.1436	
						RPD = 1.35	
9 Dinoseb							
1	19.347	19.347	0.000	649424	0.2000	0.1345	
2	20.653	20.653	0.000	574805	0.2000	0.1352	
						RPD = 0.47	

QC Flag Legend

Review Flags
M - Manually Integrated

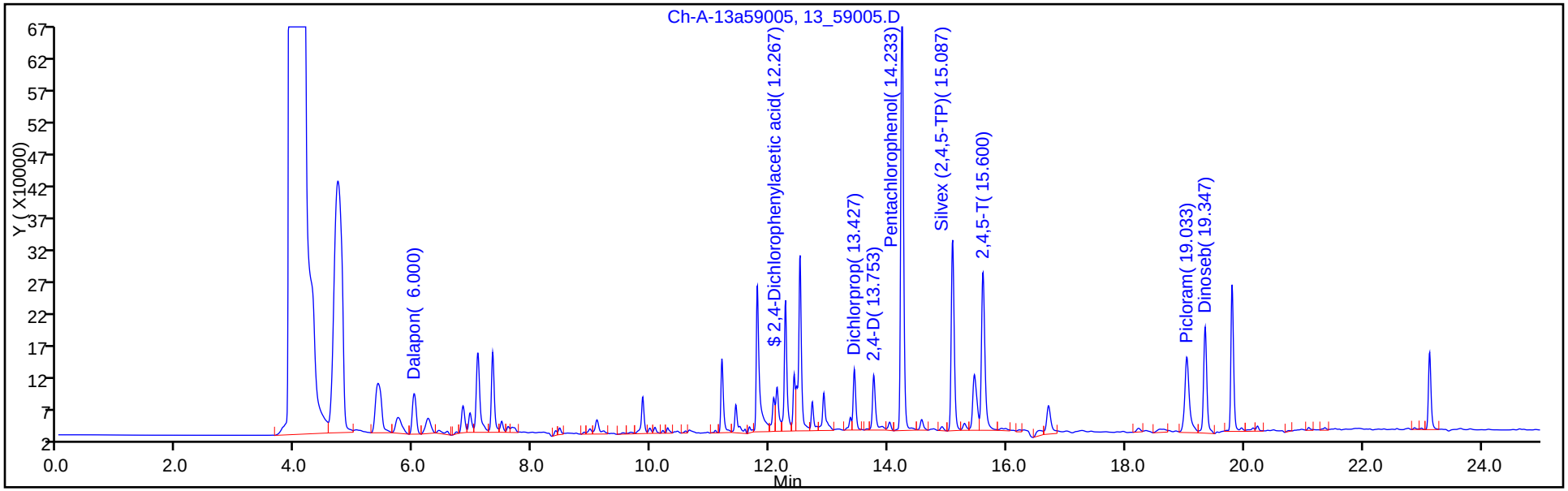
Report Date: 12-May-2014 13:56:09 Chrom Revision: 2.2 14-Apr-2014 13:40:08

TestAmerica Buffalo

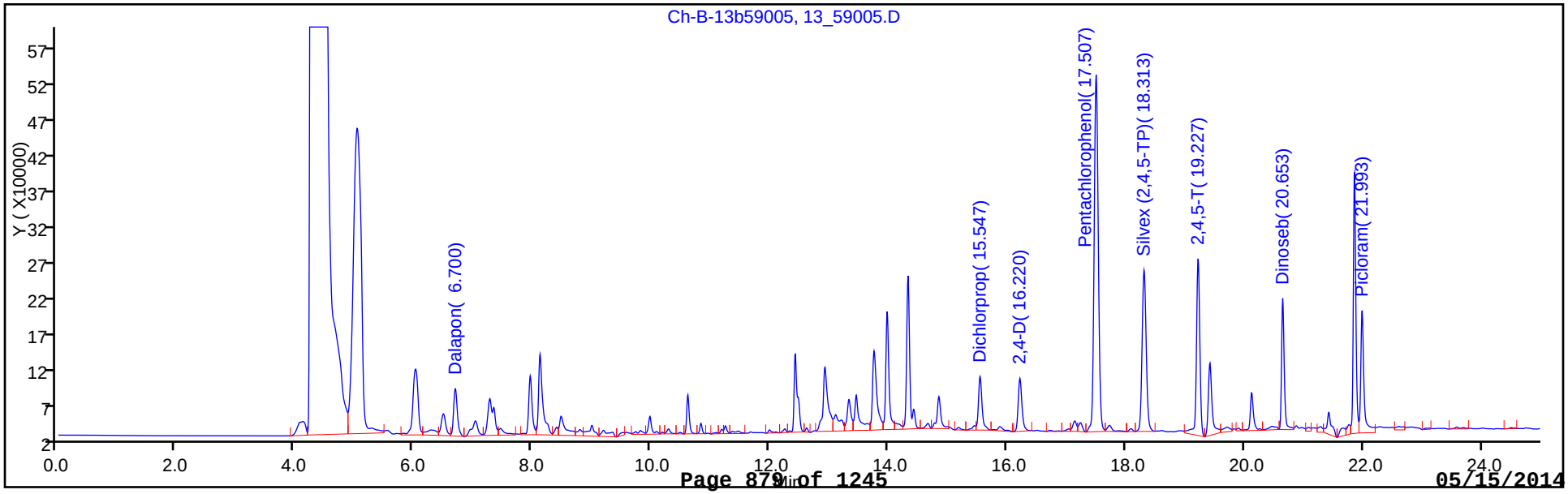
Data File: \\Bufchrom\ChromData\HP5890-13\20140509-31952.b\13_59005.D

Injection Date:	12-May-2014 12:37:12	Instrument ID:	HP5890-13	Operator ID:	buftchrom
Lims ID:	LCSD 480-180800/3-A			Worklist Smp#:	5
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8151-13	Limit Group:	GC - 8151A - ICAL		

Column: RTX-CLPI (0.32 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-CLPII (0.32 mm) Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
HERBICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1

SDG No.:

Client Sample ID: Lab Sample ID: LCSD 480-180800/3-A

Matrix: Solid Lab File ID: 13_59005.D

Analysis Method: 8151 Date Collected:

Extraction Method: 8151A Date Extracted: 05/08/2014 06:41

Sample wt/vol: 1000(mL) Date Analyzed: 05/12/2014 12:37

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: RTX-CLPII ID: 0.32(mm)

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

Analysis Batch No.: 181242 Units: mg/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
19719-28-9	2,4-Dichlorophenylacetic acid	89		40-135

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5890-13\20140509-31952.b\13_59005.D
Lims ID: LCSD 480-180800/3-A
Client ID:
Sample Type: LCSD
Inject. Date: 12-May-2014 12:37:12 ALS Bottle#: 0 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #: Name: LCSD 480-180800/3-A
Misc. Info.: Study: 480-0031952-005 Channel B: I/F Serial#, 4087270795
Operator ID: buftchrom Instrument ID: HP5890-13

Method: \\Bufchrom\ChromData\HP5890-13\20140509-31952.b\8151-13.m
Limit Group: GC - 8151A - ICAL
Last Update: 12-May-2014 13:56:04 Calib Date: 08-Apr-2014 20:10:39
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5890-13\20140405-30802.b\13_57010.D

Column 1 : RTX-CLPI (0.32 mm) Det: Ch-A-13A01239
Column 2 : RTX-CLPII (0.32 mm) Det: Ch-B-13b01239
Process Host: XAWRK049

First Level Reviewer: RudzG Date: 12-May-2014 11:08:04

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
$ 1 2,4-Dichlorophenylacetic acid							M
1	12.267	12.273	-0.006	654124	0.5000	0.4967	
2	13.980	13.987	-0.007	613336	0.5000	0.4427	M
						RPD = 11.49	
2 Dalapon							
1	6.000	6.007	-0.007	292786	0.2000	0.1956	
2	6.700	6.700	0.000	293659	0.2000	0.2128	
						RPD = 8.43	
3 Dichlorprop							
1	13.427	13.433	-0.006	294885	0.2000	0.1965	
2	15.547	15.553	-0.006	316231	0.2000	0.2035	
						RPD = 3.51	
4 2,4-D							
1	13.753	13.760	-0.007	328833	0.2000	0.1890	
2	16.220	16.227	-0.007	328241	0.2000	0.1786	
						RPD = 5.69	
5 Pentachlorophenol							
1	14.233	14.233	0.000	2260777	0.2000	0.1622	
2	17.507	17.507	0.000	2418204	0.2000	0.1657	
						RPD = 2.15	
6 Silvex (2,4,5-TP)							
1	15.087	15.087	0.000	1050669	0.2000	0.1708	
2	18.313	18.320	-0.007	1088048	0.2000	0.1783	
						RPD = 4.30	
7 2,4,5-T							
1	15.600	15.607	-0.007	1027328	0.2000	0.1647	
2	19.227	19.233	-0.006	996024	0.2000	0.1634	
						RPD = 0.79	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
8 Picloram							
1	19.033	19.053	-0.020	649643	0.2000	0.1417	
2	21.993	21.993	0.000	649505	0.2000	0.1436	
						RPD = 1.35	
9 Dinoseb							
1	19.347	19.347	0.000	649424	0.2000	0.1345	
2	20.653	20.653	0.000	574805	0.2000	0.1352	
						RPD = 0.47	

QC Flag Legend

Review Flags
M - Manually Integrated

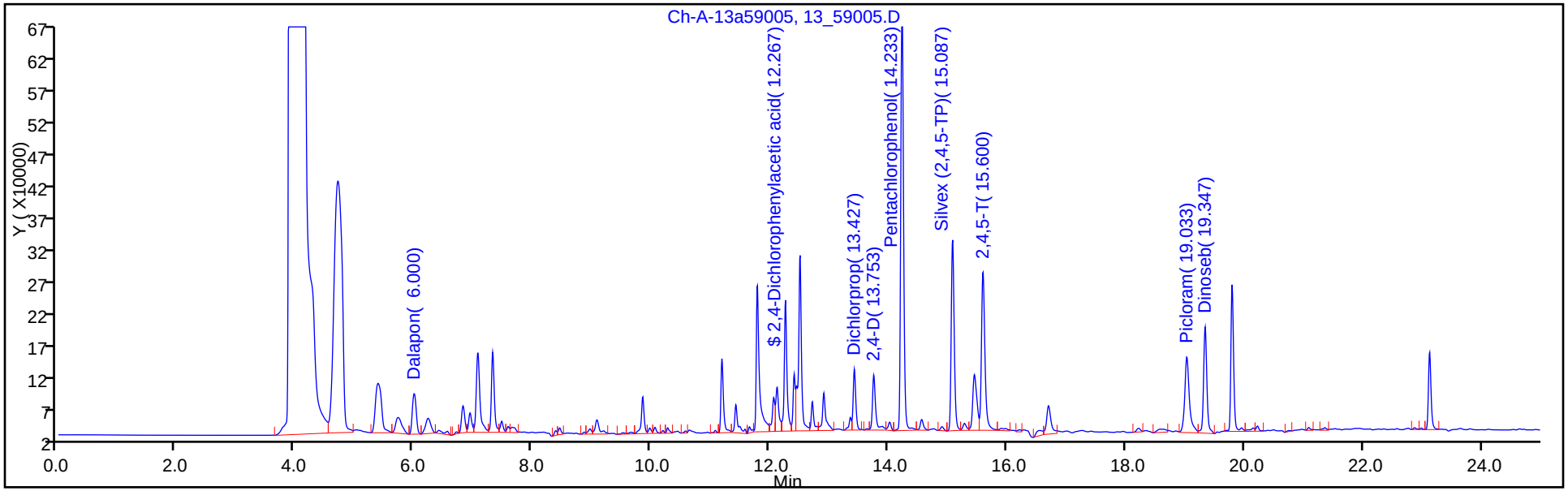
Report Date: 12-May-2014 13:56:09 Chrom Revision: 2.2 14-Apr-2014 13:40:08

TestAmerica Buffalo

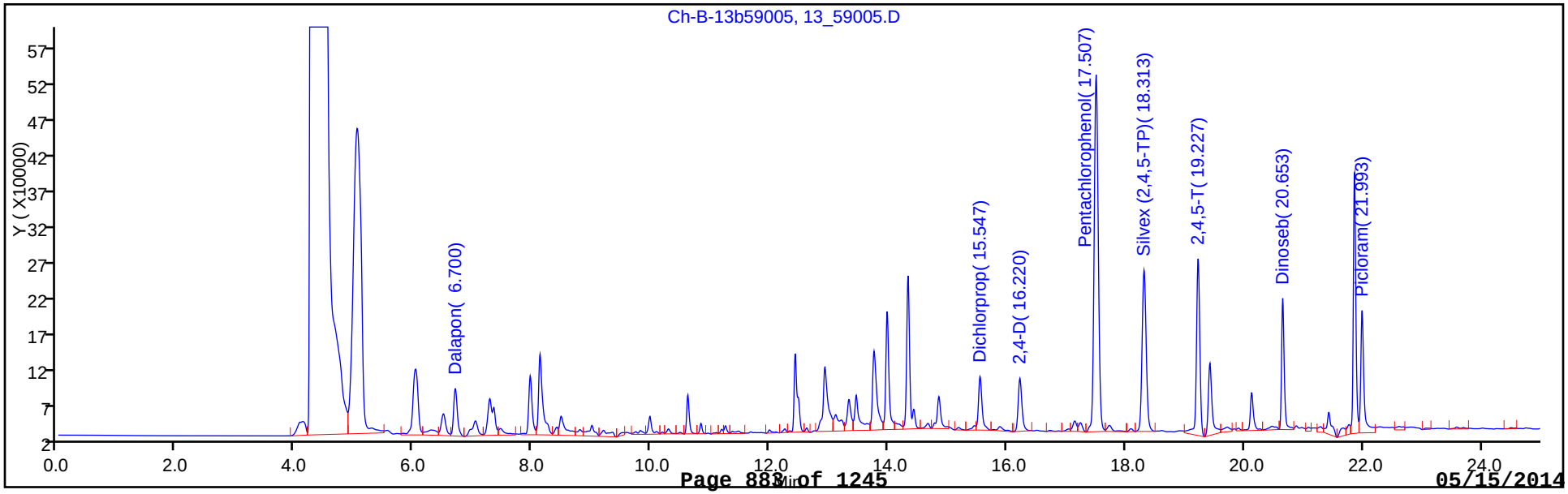
Data File: \\Bufchrom\ChromData\HP5890-13\20140509-31952.b\13_59005.D

Injection Date:	12-May-2014 12:37:12	Instrument ID:	HP5890-13	Operator ID:	buftchrom
Lims ID:	LCSD 480-180800/3-A			Worklist Smp#:	5
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8151-13	Limit Group:	GC - 8151A - ICAL		

Column: RTX-CLPI (0.32 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-CLPII (0.32 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Manual Integration/User Assign Peak Report

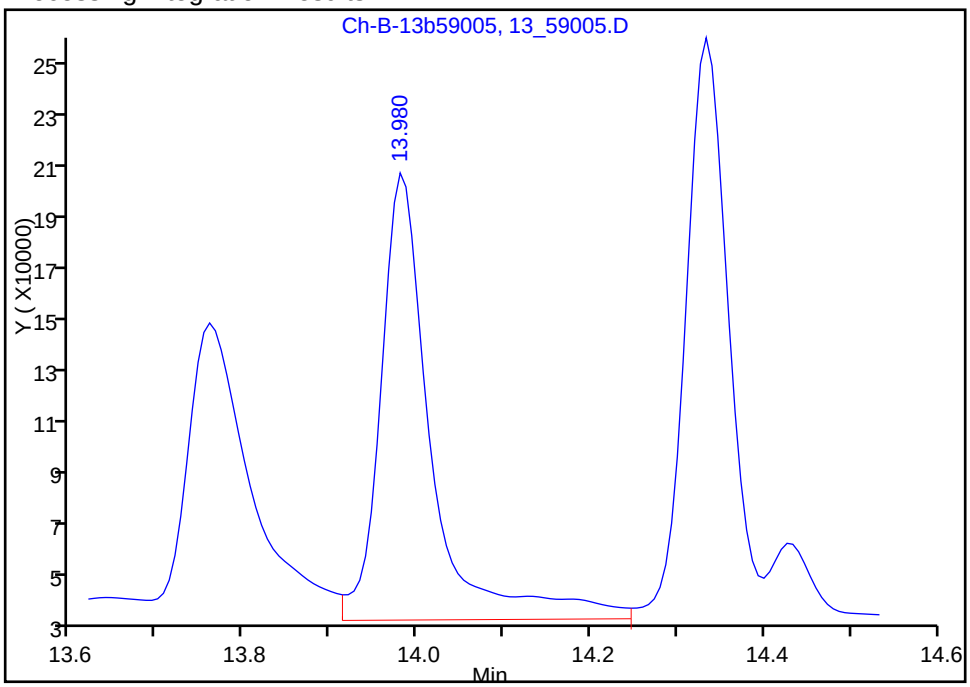
TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5890-13\20140509-31952.b\13_59005.D
Injection Date: 12-May-2014 12:37:12 Instrument ID: HP5890-13
Lims ID: LCSD 480-180800/3-A
Client ID:
Operator ID: buftchrom ALS Bottle#: 0 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8151-13 Limit Group: GC - 8151A - ICAL
Column: RTX-CLPII (0.32 mm) Detector Ch-B-13b01239

$ 1 2,4-Dichlorophenylacetic acid, CAS: 19719-28-9

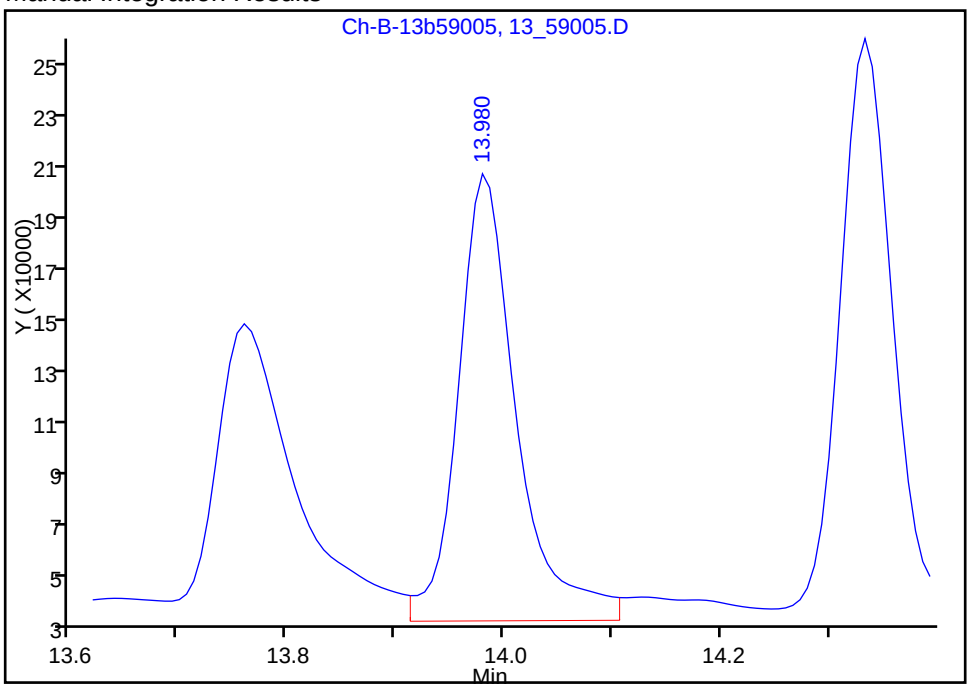
Processing Integration Results

RT: 13.98
Response: 669934
Amount: 0.493279



Manual Integration Results

RT: 13.98
Response: 613336
Amount: 0.442700



Reviewer: RudzG, 12-May-2014 13:55:22
Audit Action: Split an Integrated Peak
Audit Reason: Split Peak

HERBICIDES ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1

SDG No.:

Instrument ID: HP5890-13 Start Date: 04/08/2014 15:44

Analysis Batch Number: 174107 End Date: 04/09/2014 18:48

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		04/08/2014 15:44	1		RTX-CLPI 0.32(mm)
ZZZZZ		04/08/2014 15:44	1		RTX-CLPII 0.32(mm)
IC 480-174107/4		04/08/2014 17:12	1	13_57004.D	RTX-CLPI 0.32(mm)
IC 480-174107/4		04/08/2014 17:12	1	13_57004.D	RTX-CLPII 0.32(mm)
IC 480-174107/5		04/08/2014 17:42	1	13_57005.D	RTX-CLPI 0.32(mm)
IC 480-174107/5		04/08/2014 17:42	1	13_57005.D	RTX-CLPII 0.32(mm)
IC 480-174107/6		04/08/2014 18:12	1	13_57006.D	RTX-CLPI 0.32(mm)
IC 480-174107/6		04/08/2014 18:12	1	13_57006.D	RTX-CLPII 0.32(mm)
IC 480-174107/7		04/08/2014 18:41	1	13_57007.D	RTX-CLPI 0.32(mm)
IC 480-174107/7		04/08/2014 18:41	1	13_57007.D	RTX-CLPII 0.32(mm)
IC 480-174107/8		04/08/2014 19:11	1	13_57008.D	RTX-CLPI 0.32(mm)
IC 480-174107/8		04/08/2014 19:11	1	13_57008.D	RTX-CLPII 0.32(mm)
IC 480-174107/9		04/08/2014 19:41	1	13_57009.D	RTX-CLPI 0.32(mm)
IC 480-174107/9		04/08/2014 19:41	1	13_57009.D	RTX-CLPII 0.32(mm)
IC 480-174107/10		04/08/2014 20:10	1	13_57010.D	RTX-CLPI 0.32(mm)
IC 480-174107/10		04/08/2014 20:10	1	13_57010.D	RTX-CLPII 0.32(mm)
ICV 480-174107/11		04/08/2014 20:40	1		RTX-CLPI 0.32(mm)
ICV 480-174107/11		04/08/2014 20:40	1		RTX-CLPII 0.32(mm)
CCV 480-174107/12		04/08/2014 21:09	1		RTX-CLPI 0.32(mm)
CCV 480-174107/12		04/08/2014 21:09	1		RTX-CLPII 0.32(mm)
ZZZZZ		04/08/2014 21:39	1		RTX-CLPI 0.32(mm)
ZZZZZ		04/08/2014 21:39	1		RTX-CLPII 0.32(mm)
ZZZZZ		04/08/2014 22:09	1		RTX-CLPI 0.32(mm)
ZZZZZ		04/08/2014 22:09	1		RTX-CLPII 0.32(mm)
ZZZZZ		04/08/2014 22:38	1		RTX-CLPI 0.32(mm)
ZZZZZ		04/08/2014 22:38	1		RTX-CLPII 0.32(mm)
ZZZZZ		04/08/2014 23:08	1		RTX-CLPI 0.32(mm)
ZZZZZ		04/08/2014 23:08	1		RTX-CLPII 0.32(mm)
ZZZZZ		04/08/2014 23:37	1		RTX-CLPI 0.32(mm)
ZZZZZ		04/08/2014 23:37	1		RTX-CLPII 0.32(mm)
ZZZZZ		04/09/2014 00:07	1		RTX-CLPI 0.32(mm)
ZZZZZ		04/09/2014 00:07	1		RTX-CLPII 0.32(mm)
ZZZZZ		04/09/2014 00:36	1		RTX-CLPI 0.32(mm)
ZZZZZ		04/09/2014 00:36	1		RTX-CLPII 0.32(mm)
ZZZZZ		04/09/2014 01:06	1		RTX-CLPI 0.32(mm)
ZZZZZ		04/09/2014 01:06	1		RTX-CLPII 0.32(mm)
ZZZZZ		04/09/2014 01:36	1		RTX-CLPI 0.32(mm)
ZZZZZ		04/09/2014 01:36	1		RTX-CLPII 0.32(mm)
ZZZZZ		04/09/2014 02:05	1		RTX-CLPI 0.32(mm)
ZZZZZ		04/09/2014 02:05	1		RTX-CLPII 0.32(mm)
CCV 480-174107/23		04/09/2014 02:35	1		RTX-CLPI 0.32(mm)
CCV 480-174107/23		04/09/2014 02:35	1		RTX-CLPII 0.32(mm)
ZZZZZ		04/09/2014 03:04	1		RTX-CLPI 0.32(mm)
ZZZZZ		04/09/2014 03:04	1		RTX-CLPII 0.32(mm)
ZZZZZ		04/09/2014 03:34	1		RTX-CLPI 0.32(mm)

8151

HERBICIDES ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1

SDG No.:

Instrument ID: HP5890-13 Start Date: 04/08/2014 15:44

Analysis Batch Number: 174107 End Date: 04/09/2014 18:48

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		04/09/2014 03:34	1		RTX-CLPII 0.32(mm)
ZZZZZ		04/09/2014 04:03	1		RTX-CLPI 0.32(mm)
ZZZZZ		04/09/2014 04:03	1		RTX-CLPII 0.32(mm)
ZZZZZ		04/09/2014 04:33	1		RTX-CLPI 0.32(mm)
ZZZZZ		04/09/2014 04:33	1		RTX-CLPII 0.32(mm)
ZZZZZ		04/09/2014 05:02	1		RTX-CLPI 0.32(mm)
ZZZZZ		04/09/2014 05:02	1		RTX-CLPII 0.32(mm)
ZZZZZ		04/09/2014 05:32	1		RTX-CLPI 0.32(mm)
ZZZZZ		04/09/2014 05:32	1		RTX-CLPII 0.32(mm)
CCV 480-174107/30		04/09/2014 09:43	1		RTX-CLPI 0.32(mm)
CCV 480-174107/30		04/09/2014 09:43	1		RTX-CLPII 0.32(mm)
ZZZZZ		04/09/2014 10:23	1		RTX-CLPI 0.32(mm)
ZZZZZ		04/09/2014 10:23	1		RTX-CLPII 0.32(mm)
ZZZZZ		04/09/2014 10:52	1		RTX-CLPI 0.32(mm)
ZZZZZ		04/09/2014 10:52	1		RTX-CLPII 0.32(mm)
ZZZZZ		04/09/2014 11:22	1		RTX-CLPI 0.32(mm)
ZZZZZ		04/09/2014 11:22	1		RTX-CLPII 0.32(mm)
ZZZZZ		04/09/2014 11:51	1		RTX-CLPI 0.32(mm)
ZZZZZ		04/09/2014 11:51	1		RTX-CLPII 0.32(mm)
ZZZZZ		04/09/2014 12:21	1		RTX-CLPI 0.32(mm)
ZZZZZ		04/09/2014 12:21	1		RTX-CLPII 0.32(mm)
ZZZZZ		04/09/2014 12:51	1		RTX-CLPI 0.32(mm)
ZZZZZ		04/09/2014 12:51	1		RTX-CLPII 0.32(mm)
ZZZZZ		04/09/2014 13:20	1		RTX-CLPI 0.32(mm)
ZZZZZ		04/09/2014 13:20	1		RTX-CLPII 0.32(mm)
ZZZZZ		04/09/2014 13:50	1		RTX-CLPI 0.32(mm)
ZZZZZ		04/09/2014 13:50	1		RTX-CLPII 0.32(mm)
ZZZZZ		04/09/2014 14:19	1		RTX-CLPI 0.32(mm)
ZZZZZ		04/09/2014 14:19	1		RTX-CLPII 0.32(mm)
ZZZZZ		04/09/2014 14:49	1		RTX-CLPI 0.32(mm)
ZZZZZ		04/09/2014 14:49	1		RTX-CLPII 0.32(mm)
CCV 480-174107/41		04/09/2014 16:50	1		RTX-CLPI 0.32(mm)
CCV 480-174107/41		04/09/2014 16:50	1		RTX-CLPII 0.32(mm)
ZZZZZ		04/09/2014 17:19	1		RTX-CLPI 0.32(mm)
ZZZZZ		04/09/2014 17:19	1		RTX-CLPII 0.32(mm)
ZZZZZ		04/09/2014 17:49	1		RTX-CLPI 0.32(mm)
ZZZZZ		04/09/2014 17:49	1		RTX-CLPII 0.32(mm)
ZZZZZ		04/09/2014 18:18	1		RTX-CLPI 0.32(mm)
ZZZZZ		04/09/2014 18:18	1		RTX-CLPII 0.32(mm)
CCV 480-174107/45		04/09/2014 18:48	1		RTX-CLPI 0.32(mm)
CCV 480-174107/45		04/09/2014 18:48	1		RTX-CLPII 0.32(mm)

8151

HERBICIDES ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1

SDG No.:

Instrument ID: HP5890-13 Start Date: 05/12/2014 11:08

Analysis Batch Number: 181242 End Date: 05/14/2014 02:09

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 480-181242/2		05/12/2014 11:08	1	13_59002.D	RTX-CLPI 0.32(mm)
CCV 480-181242/2		05/12/2014 11:08	1	13_59002.D	RTX-CLPII 0.32(mm)
MB 480-180800/1-A		05/12/2014 11:37	1	13_59003.D	RTX-CLPI 0.32(mm)
MB 480-180800/1-A		05/12/2014 11:37	1	13_59003.D	RTX-CLPII 0.32(mm)
LCS 480-180800/2-A		05/12/2014 12:07	1	13_59004.D	RTX-CLPI 0.32(mm)
LCS 480-180800/2-A		05/12/2014 12:07	1	13_59004.D	RTX-CLPII 0.32(mm)
LCSD 480-180800/3-A		05/12/2014 12:37	1	13_59005.D	RTX-CLPI 0.32(mm)
LCSD 480-180800/3-A		05/12/2014 12:37	1	13_59005.D	RTX-CLPII 0.32(mm)
LB 480-180381/1-E		05/12/2014 13:06	1	13_59006.D	RTX-CLPI 0.32(mm)
LB 480-180381/1-E		05/12/2014 13:06	1	13_59006.D	RTX-CLPII 0.32(mm)
480-58807-1	P1-1(Sed)	05/12/2014 13:36	1	13_59007.D	RTX-CLPI 0.32(mm)
480-58807-1	P1-1(Sed)	05/12/2014 13:36	1	13_59007.D	RTX-CLPII 0.32(mm)
480-58807-2	P1-2(Sed)	05/12/2014 14:06	1	13_59008.D	RTX-CLPI 0.32(mm)
480-58807-2	P1-2(Sed)	05/12/2014 14:06	1	13_59008.D	RTX-CLPII 0.32(mm)
480-58807-3	P2-1(Sed)	05/12/2014 14:35	1	13_59009.D	RTX-CLPI 0.32(mm)
480-58807-3	P2-1(Sed)	05/12/2014 14:35	1	13_59009.D	RTX-CLPII 0.32(mm)
480-58807-4	P2-2(Sed)	05/12/2014 15:05	1	13_59010.D	RTX-CLPI 0.32(mm)
480-58807-4	P2-2(Sed)	05/12/2014 15:05	1	13_59010.D	RTX-CLPII 0.32(mm)
ZZZZZ		05/12/2014 15:35	1		RTX-CLPI 0.32(mm)
ZZZZZ		05/12/2014 15:35	1		RTX-CLPII 0.32(mm)
ZZZZZ		05/12/2014 16:04	1		RTX-CLPI 0.32(mm)
ZZZZZ		05/12/2014 16:04	1		RTX-CLPII 0.32(mm)
CCV 480-181242/13		05/12/2014 16:34	1	13_59013.D	RTX-CLPI 0.32(mm)
CCV 480-181242/13		05/12/2014 16:34	1	13_59013.D	RTX-CLPII 0.32(mm)
ZZZZZ		05/12/2014 17:04	1		RTX-CLPI 0.32(mm)
ZZZZZ		05/12/2014 17:04	1		RTX-CLPII 0.32(mm)
ZZZZZ		05/12/2014 17:34	1		RTX-CLPI 0.32(mm)
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ZZZZZ		05/12/2014 18:03	1		RTX-CLPI 0.32(mm)
ZZZZZ		05/12/2014 18:03	1		RTX-CLPII 0.32(mm)
ZZZZZ		05/12/2014 18:33	1		RTX-CLPI 0.32(mm)
ZZZZZ		05/12/2014 18:33	1		RTX-CLPII 0.32(mm)
ZZZZZ		05/12/2014 19:02	1		RTX-CLPI 0.32(mm)
ZZZZZ		05/12/2014 19:02	1		RTX-CLPII 0.32(mm)
ZZZZZ		05/12/2014 19:32	1		RTX-CLPI 0.32(mm)
ZZZZZ		05/12/2014 19:32	1		RTX-CLPII 0.32(mm)
ZZZZZ		05/12/2014 20:01	1		RTX-CLPI 0.32(mm)
ZZZZZ		05/12/2014 20:01	1		RTX-CLPII 0.32(mm)
ZZZZZ		05/12/2014 20:31	1		RTX-CLPI 0.32(mm)
ZZZZZ		05/12/2014 20:31	1		RTX-CLPII 0.32(mm)
ZZZZZ		05/12/2014 21:01	1		RTX-CLPI 0.32(mm)
ZZZZZ		05/12/2014 21:01	1		RTX-CLPII 0.32(mm)
CCV 480-181242/23		05/13/2014 12:01	1		RTX-CLPI 0.32(mm)
CCV 480-181242/23		05/13/2014 12:01	1		RTX-CLPII 0.32(mm)
ZZZZZ		05/13/2014 12:31	1		RTX-CLPI 0.32(mm)

8151

HERBICIDES ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1

SDG No.:

Instrument ID: HP5890-13 Start Date: 05/12/2014 11:08

Analysis Batch Number: 181242 End Date: 05/14/2014 02:09

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		05/13/2014 12:31	1		RTX-CLPII 0.32(mm)
ZZZZZ		05/13/2014 13:01	1		RTX-CLPI 0.32(mm)
ZZZZZ		05/13/2014 13:01	1		RTX-CLPII 0.32(mm)
CCV 480-181242/26		05/13/2014 13:30	1		RTX-CLPI 0.32(mm)
CCV 480-181242/26		05/13/2014 13:30	1		RTX-CLPII 0.32(mm)
ZZZZZ		05/13/2014 15:47	1		RTX-CLPI 0.32(mm)
ZZZZZ		05/13/2014 15:47	1		RTX-CLPII 0.32(mm)
ZZZZZ		05/13/2014 16:16	1		RTX-CLPI 0.32(mm)
ZZZZZ		05/13/2014 16:16	1		RTX-CLPII 0.32(mm)
ZZZZZ		05/13/2014 16:46	1		RTX-CLPI 0.32(mm)
ZZZZZ		05/13/2014 16:46	1		RTX-CLPII 0.32(mm)
ZZZZZ		05/13/2014 17:16	1		RTX-CLPI 0.32(mm)
ZZZZZ		05/13/2014 17:16	1		RTX-CLPII 0.32(mm)
ZZZZZ		05/13/2014 17:45	1		RTX-CLPI 0.32(mm)
ZZZZZ		05/13/2014 17:45	1		RTX-CLPII 0.32(mm)
ZZZZZ		05/13/2014 18:15	1		RTX-CLPI 0.32(mm)
ZZZZZ		05/13/2014 18:15	1		RTX-CLPII 0.32(mm)
ZZZZZ		05/13/2014 18:45	1		RTX-CLPI 0.32(mm)
ZZZZZ		05/13/2014 18:45	1		RTX-CLPII 0.32(mm)
ZZZZZ		05/13/2014 19:14	1		RTX-CLPI 0.32(mm)
ZZZZZ		05/13/2014 19:14	1		RTX-CLPII 0.32(mm)
ZZZZZ		05/13/2014 19:44	1		RTX-CLPI 0.32(mm)
ZZZZZ		05/13/2014 19:44	1		RTX-CLPII 0.32(mm)
ZZZZZ		05/13/2014 20:13	1		RTX-CLPI 0.32(mm)
ZZZZZ		05/13/2014 20:13	1		RTX-CLPII 0.32(mm)
CCV 480-181242/37		05/13/2014 20:43	1		RTX-CLPI 0.32(mm)
CCV 480-181242/37		05/13/2014 20:43	1		RTX-CLPII 0.32(mm)
ZZZZZ		05/13/2014 21:13	1		RTX-CLPI 0.32(mm)
ZZZZZ		05/13/2014 21:13	1		RTX-CLPII 0.32(mm)
ZZZZZ		05/13/2014 21:42	1		RTX-CLPI 0.32(mm)
ZZZZZ		05/13/2014 21:42	1		RTX-CLPII 0.32(mm)
ZZZZZ		05/13/2014 23:11	1		RTX-CLPI 0.32(mm)
ZZZZZ		05/13/2014 23:11	1		RTX-CLPII 0.32(mm)
ZZZZZ		05/13/2014 23:41	1		RTX-CLPI 0.32(mm)
ZZZZZ		05/13/2014 23:41	1		RTX-CLPII 0.32(mm)
ZZZZZ		05/14/2014 00:10	1		RTX-CLPI 0.32(mm)
ZZZZZ		05/14/2014 00:10	1		RTX-CLPII 0.32(mm)
CCV 480-181242/48		05/14/2014 02:09	1		RTX-CLPI 0.32(mm)
CCV 480-181242/48		05/14/2014 02:09	1		RTX-CLPII 0.32(mm)

HERBICIDES BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1

SDG No.:

Batch Number: 180381 Batch Start Date: 05/06/14 12:10 Batch Analyst: Gentner, Taylor R

Batch Method: 1311 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	EFD_PartSizeRed	EFD_SampleWeigh t	EFD_VolumeWater Add	EFD_InitialpH
LB 480-180381/1		1311, 8151A, 8151			2000 mL				
480-58807-B-1	P1-1(Sed)	1311, 8151A, 8151	P	100.80 g	2000 mL	No	5.27 g	96.5 mL	7.52 SU
480-58807-C-2	P1-2(Sed)	1311, 8151A, 8151	P	100.86 g	2000 mL	No	5.75 g	96.5 mL	7.41 SU
480-58807-B-3	P2-1(Sed)	1311, 8151A, 8151	P	100.48 g	2000 mL	No	5.20 g	96.5 mL	6.79 SU
480-58807-C-4	P2-2(Sed)	1311, 8151A, 8151	P	100.59 g	2000 mL	No	5.42 g	96.5 mL	6.60 SU

Lab Sample ID	Client Sample ID	Method Chain	Basis	EFD_AddHClpH>5	EFD_HeatHeld	EFD_SecondpHChe ck	ExtractionFluid One	ExtractionFluid Two	PartSizeRed
LB 480-180381/1		1311, 8151A, 8151					Yes	No	
480-58807-B-1	P1-1(Sed)	1311, 8151A, 8151	P	3.5 mL	Yes	1.27 SU	Yes	No	No
480-58807-C-2	P1-2(Sed)	1311, 8151A, 8151	P	3.5 mL	Yes	1.29 SU	Yes	No	No
480-58807-B-3	P2-1(Sed)	1311, 8151A, 8151	P	3.5 mL	Yes	1.17 SU	Yes	No	No
480-58807-C-4	P2-2(Sed)	1311, 8151A, 8151	P	3.5 mL	Yes	1.21 SU	Yes	No	No

Lab Sample ID	Client Sample ID	Method Chain	Basis	VesselNumber	FiltCompDate	FiltCompTime	LeachatepH	LeachVolume	TCLP%Solids
LB 480-180381/1		1311, 8151A, 8151		Cool	5/7/14	10:20	4.90 SU	1000/800 mL	
480-58807-B-1	P1-1(Sed)	1311, 8151A, 8151	P	JK	5/7/14	10:20	4.89 SU	1000 mL	100 %
480-58807-C-2	P1-2(Sed)	1311, 8151A, 8151	P	DC	5/7/14	10:20	4.94 SU	1000 mL	100 %
480-58807-B-3	P2-1(Sed)	1311, 8151A, 8151	P	Co	5/7/14	10:20	4.95 SU	1000 mL	100 %
480-58807-C-4	P2-2(Sed)	1311, 8151A, 8151	P	LOL	5/7/14	10:20	4.91 SU	1000 mL	100 %

Lab Sample ID	Client Sample ID	Method Chain	Basis	ExtractFluid					
LB 480-180381/1		1311, 8151A, 8151		1					

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.

HERBICIDES BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1

SDG No.:

Batch Number: 180381 Batch Start Date: 05/06/14 12:10 Batch Analyst: Gentner, Taylor R

Batch Method: 1311 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	ExtractFluid					
480-58807-B-1	P1-1(Sed)	1311, 8151A, 8151	P	1					
480-58807-C-2	P1-2(Sed)	1311, 8151A, 8151	P	1					
480-58807-B-3	P2-1(Sed)	1311, 8151A, 8151	P	1					
480-58807-C-4	P2-2(Sed)	1311, 8151A, 8151	P	1					

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.

HERBICIDES BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1

SDG No.:

Batch Number: 180381 Batch Start Date: 05/06/14 12:10 Batch Analyst: Gentner, Taylor R

Batch Method: 1311 Batch End Date:

Batch Notes	
Balance ID	B037067151
pH Buffer 1 ID	1808926 (10)
pH Buffer 2 ID	1808950 (7)
pH Buffer 3 ID	1808949 (4)
pH Buffer 4 ID	1324094 (2)
First End time	07:05
Final Room Temperature	23.00 Celsius
Initial Room Temperature	22.70 Celsius
pH Meter Calibration Slope	97.6%
Room Temperature during Rotation	22.70-23.00 Degrees C
Room Temperature Thermometer ID	122273689
First Start time	15:05
TCLP Fluid 1 ID	2054366
TCLP Fluid 1 pH	4.93
Temperature	23.00 Celsius
Maximum Temperature	23.00 Celsius
Minimum Temperature	22.70 Degrees C
ID number of the thermometer	12227689
Tumbler Rotations per Minute	30 RPM TG 5/6/14
Uncorrected Final Room Temperature	22.90 Celsius
Uncorrected Initial Room Temperature	22.60 Celsius
Uncorrected Room Temperature	22.60-22.90 Celsius
Uncorrected Temperature	22.90 Celsius
Uncorrected Maximum Temperature	22.90 Celsius
Uncorrected Minimum Temperature	22.60 Celsius

Basis	Basis Description
P	TCLP

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.

HERBICIDES BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1

SDG No.:

Batch Number: 180800 Batch Start Date: 05/08/14 06:40 Batch Analyst: Ziemer, Michael C

Batch Method: 8151A Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	ReceivedpH	FirstAdjustpH	SecondAdjustpH	O_8151spike 00018
MB 480-180800/1		8151A, 8151		1000 mL	10 mL	7 SU	>11	<2	
LCS 480-180800/2		8151A, 8151		1000 mL	10 mL	7 SU	>11	<2	1 mL
LCSD 480-180800/3		8151A, 8151		1000 mL	10 mL	7 SU	>11	<2	1 mL
LB 480-180381/1-A		8151A, 8151		250 mL	10 mL	6 SU	>11	<2	
480-58807-B-1-F	P1-1(Sed)	8151A, 8151	P	250 mL	10 mL	6 SU	>11	<2	
480-58807-C-2-F	P1-2(Sed)	8151A, 8151	P	250 mL	10 mL	6 SU	>11	<2	
480-58807-B-3-H	P2-1(Sed)	8151A, 8151	P	250 mL	10 mL	6 SU	>11	<2	
480-58807-C-4-H	P2-2(Sed)	8151A, 8151	P	250 mL	10 mL	6 SU	>11	<2	

Lab Sample ID	Client Sample ID	Method Chain	Basis	O_8151surroga 00011	AnalysisComment				
MB 480-180800/1		8151A, 8151		1 mL	100ul diazomethane used				
LCS 480-180800/2		8151A, 8151		1 mL	100ul diazomethane used				
LCSD 480-180800/3		8151A, 8151		1 mL	100ul diazomethane used				
LB 480-180381/1-A		8151A, 8151		1 mL	400ul diazomethane used				
480-58807-B-1-F	P1-1(Sed)	8151A, 8151	P	1 mL	400ul diazomethane used				
480-58807-C-2-F	P1-2(Sed)	8151A, 8151	P	1 mL	400ul diazomethane used				
480-58807-B-3-H	P2-1(Sed)	8151A, 8151	P	1 mL	400ul diazomethane used				
480-58807-C-4-H	P2-2(Sed)	8151A, 8151	P	1 mL	400ul diazomethane used				

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.

HERBICIDES BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1

SDG No.:

Batch Number: 180800 Batch Start Date: 05/08/14 06:40 Batch Analyst: Ziemer, Michael C

Batch Method: 8151A Batch End Date:

Batch Notes	
Balance ID	14552245
Batch Comment	Samples were filtered
Diethyl Ether Lot #	0000063511
Sulfuric Acid Lot Number	1:1 2403A28
Hexane Lot#	0000070764
MeCL2 Lot #	0000073190
Methanol Lot Number	0000054761
Na2SO4, Acidified Lot #	NA2SO4, 27864001; Sulfuric, 0000065090; Ether, 0000063511
NaCl Lot #	VL13L
Person's name who did the prep	MZ, MRB
Person's name who witnessed reagent drop	MZ
TMSDM Lot #	SHBD7720V

Basis	Basis Description
P	TCLP

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: 480-58807-1

SDG No.:

Project: Mt Kisco

Client Sample ID	Lab Sample ID
P1-1(Sed)	480-58807-1
P1-2(Sed)	480-58807-2
P2-1(Sed)	480-58807-3
P2-2(Sed)	480-58807-4

Comments:

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - TCLP

Client Sample ID: P1-1(Sed) Lab Sample ID: 480-58807-1

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1

SDG ID.:

Matrix: Solid Date Sampled: 04/25/2014 00:00

Reporting Basis: WET Date Received: 04/28/2014 09:30

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	ND	0.015	0.0056	mg/L			1	6010C
7440-39-3	Barium	1.1	0.0020	0.00070	mg/L		B	1	6010C
7440-43-9	Cadmium	0.024	0.0020	0.00050	mg/L			1	6010C
7440-47-3	Chromium	0.027	0.0040	0.0010	mg/L		B	1	6010C
7439-92-1	Lead	0.49	0.010	0.0030	mg/L			1	6010C
7782-49-2	Selenium	ND	0.025	0.0087	mg/L			1	6010C
7440-22-4	Silver	0.017	0.0060	0.0017	mg/L			1	6010C
7439-97-6	Mercury	0.0081	0.00020	0.00012	mg/L		*	1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - TCLP

Client Sample ID: P1-2(Sed) Lab Sample ID: 480-58807-2

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1

SDG ID.:

Matrix: Solid Date Sampled: 04/25/2014 00:00

Reporting Basis: WET Date Received: 04/28/2014 09:30

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	ND	0.015	0.0056	mg/L			1	6010C
7440-39-3	Barium	0.80	0.0020	0.00070	mg/L		B	1	6010C
7440-43-9	Cadmium	0.042	0.0020	0.00050	mg/L			1	6010C
7440-47-3	Chromium	0.0023	0.0040	0.0010	mg/L	J	B	1	6010C
7439-92-1	Lead	0.084	0.010	0.0030	mg/L			1	6010C
7782-49-2	Selenium	ND	0.025	0.0087	mg/L			1	6010C
7440-22-4	Silver	ND	0.0060	0.0017	mg/L			1	6010C
7439-97-6	Mercury	0.00014	0.00020	0.00012	mg/L	J	*	1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - TCLP

Client Sample ID: P2-1(Sed) Lab Sample ID: 480-58807-3

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1

SDG ID.:

Matrix: Solid Date Sampled: 04/25/2014 00:00

Reporting Basis: WET Date Received: 04/28/2014 09:30

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	ND	0.015	0.0056	mg/L			1	6010C
7440-39-3	Barium	0.46	0.0020	0.00070	mg/L		B	1	6010C
7440-43-9	Cadmium	0.0026	0.0020	0.00050	mg/L			1	6010C
7440-47-3	Chromium	0.0017	0.0040	0.0010	mg/L	J	B	1	6010C
7439-92-1	Lead	0.18	0.010	0.0030	mg/L			1	6010C
7782-49-2	Selenium	ND	0.025	0.0087	mg/L			1	6010C
7440-22-4	Silver	ND	0.0060	0.0017	mg/L			1	6010C
7439-97-6	Mercury	0.00022	0.00020	0.00012	mg/L		*	1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - TCLP

Client Sample ID: P2-2(Sed) Lab Sample ID: 480-58807-4

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1

SDG ID.:

Matrix: Solid Date Sampled: 04/25/2014 00:00

Reporting Basis: WET Date Received: 04/28/2014 09:30

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	ND	0.015	0.0056	mg/L			1	6010C
7440-39-3	Barium	0.40	0.0020	0.00070	mg/L		B	1	6010C
7440-43-9	Cadmium	0.0026	0.0020	0.00050	mg/L			1	6010C
7440-47-3	Chromium	0.0016	0.0040	0.0010	mg/L	J	B	1	6010C
7439-92-1	Lead	0.092	0.010	0.0030	mg/L			1	6010C
7782-49-2	Selenium	ND	0.025	0.0087	mg/L			1	6010C
7440-22-4	Silver	ND	0.0060	0.0017	mg/L			1	6010C
7439-97-6	Mercury	0.00012	0.00020	0.00012	mg/L	J	*	1	7470A

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1

SDG No.:

ICV Source: MEI_04_ICV_00250 Concentration Units: mg/L

CCV Source: MEI_09_CCV_00159

Analyte	ICV 480-179601/5 05/01/2014 10:41				CCV 480-179601/14 05/01/2014 14:27				CCV 480-179601/21 05/01/2014 15:00			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Arsenic	0.381		0.375	102	0.508		0.500	102	0.519		0.500	104
Barium	0.387		0.375	103	0.505		0.500	101	0.510		0.500	102
Cadmium	0.374		0.375	100	0.496		0.500	99	0.509		0.500	102
Chromium	0.379		0.375	101	0.494		0.500	99	0.506		0.500	101
Lead	0.370		0.375	99	0.490		0.500	98	0.505		0.500	101
Selenium	0.375		0.375	100	0.502		0.500	100	0.515		0.500	103
Silver	0.371		0.375	99	0.489		0.500	98	0.499		0.500	100

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.: 480-58807-1

SDG No.:

ICV Source: MEI_04_ICV_00250 Concentration Units: mg/L

CCV Source: MEI_09_CCV_00159

Analyte	CCV 480-179601/31 05/01/2014 15:34				CCV 480-179601/38 05/01/2014 16:10							
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Arsenic	0.511		0.500	102	0.515		0.500	103				
Barium	0.505		0.500	101	0.507		0.500	101				
Cadmium	0.502		0.500	100	0.505		0.500	101				
Chromium	0.502		0.500	100	0.504		0.500	101				
Lead	0.499		0.500	100	0.502		0.500	100				
Selenium	0.509		0.500	102	0.514		0.500	103				
Silver	0.494		0.500	99	0.496		0.500	99				

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.: 480-58807-1

SDG No.:

ICV Source: MEI_10_CCVL_00028 Concentration Units: mg/L

CCV Source: MEI_10_CCVL_00028

Analyte	ICVL 480-179601/7 05/01/2014 10:46				CCVL 480-179601/16 05/01/2014 14:32				CCVL 480-179601/23 05/01/2014 15:06			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Arsenic	0.0136	J	0.0150	90	0.0121	J	0.0150	80	0.0129	J	0.0150	86
Barium	0.00219		0.00200	110	0.00234		0.00200	117	0.00240		0.00200	120
Cadmium	0.00168	J	0.00200	84	0.00158	J	0.00200	79	0.00163	J	0.00200	82
Chromium	0.00421		0.00400	105	0.00420		0.00400	105	0.00381	J	0.00400	95
Lead	0.00980	J	0.0100	98	0.00979	J	0.0100	98	0.00871	J	0.0100	87
Selenium	0.0269		0.0250	108	0.0258		0.0250	103	0.0257		0.0250	103
Silver	0.00654		0.00600	109	0.00572	J	0.00600	95	0.00550	J	0.00600	92

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.: 480-58807-1

SDG No.:

ICV Source: MEI_10_CCVL_00028 Concentration Units: mg/L

CCV Source: MEI_10_CCVL_00028

Analyte	CCVL 480-179601/33 05/01/2014 15:41				CCVL 480-179601/40 05/01/2014 16:15							
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Arsenic	0.0124	J	0.0150	83	0.0132	J	0.0150	88				
Barium	0.00238		0.00200	119	0.00253		0.00200	127				
Cadmium	0.00161	J	0.00200	81	0.00158	J	0.00200	79				
Chromium	0.00340	J	0.00400	85	0.00371	J	0.00400	93				
Lead	0.00875	J	0.0100	88	0.00884	J	0.0100	88				
Selenium	0.0226	J	0.0250	90	0.0238	J	0.0250	95				
Silver	0.00508	J	0.00600	85	0.00597	J	0.00600	100				

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.: 480-58807-1

SDG No.:

ICV Source: MEH_HG2_WKG_00631 Concentration Units: mg/L

CCV Source: MEH_HG2_WKG_00631

Analyte	ICV 480-180600/1 05/01/2014 11:22				ICVL 480-180600/3 05/01/2014 11:25				CCV 480-180600/4 05/01/2014 11:27			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury	0.00292		0.00300	97	0.000207		0.000200	104	0.00199		0.00200	100

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.: 480-58807-1

SDG No.:

ICV Source: MEH_HG2_WKG_00631 Concentration Units: mg/L

CCV Source: MEH_HG2_WKG_00631

Analyte	CCV 480-180600/16 05/01/2014 11:58				CCV 480-180600/20 05/01/2014 12:05				CCVL 480-180600/22 05/01/2014 12:08			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury	0.00199		0.00200	100	0.00198		0.00200	99	0.000209		0.000200	105

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.: 480-58807-1

SDG No.:

Concentration Units: mg/L

Analyte	RL	ICB 480-179601/6 05/01/2014 10:43		CCB 480-179601/15 05/01/2014 14:29		CCB 480-179601/22 05/01/2014 15:03		CCB 480-179601/32 05/01/2014 15:37	
		Found	C	Found	C	Found	C	Found	C
Arsenic	0.015	ND		ND		ND		ND	
Barium	0.0020	ND		ND		ND		ND	
Cadmium	0.0020	ND		ND		ND		ND	
Chromium	0.0040	ND		ND		ND		ND	
Lead	0.010	ND		ND		ND		ND	
Selenium	0.025	ND		ND		ND		ND	
Silver	0.0060	ND		ND		ND		ND	

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1

SDG No.:

Concentration Units: mg/L

Analyte	RL	CCB 480-179601/39 05/01/2014 16:12							
		Found	C	Found	C	Found	C	Found	C
Arsenic	0.015	ND							
Barium	0.0020	ND							
Cadmium	0.0020	ND							
Chromium	0.0040	ND							
Lead	0.010	ND							
Selenium	0.025	ND							
Silver	0.0060	ND							

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1

SDG No.:

Concentration Units: mg/L

Analyte	RL	ICB 480-180600/2 05/01/2014 11:23		CCB 480-180600/5 05/01/2014 11:29		CCB 480-180600/17 05/01/2014 12:00		CCB 480-180600/21 05/01/2014 12:06	
		Found	C	Found	C	Found	C	Found	C
Mercury	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.: 480-58807-1

SDG No.:

Concentration Units: mg/L Lab Sample ID: MB 480-179139/2-A

Instrument Code: ICAP2 Batch No.: 179601

CAS No.	Analyte	Concentration	C	Q	Method
7440-38-2	Arsenic	ND			6010C
7440-39-3	Barium	ND			6010C
7440-43-9	Cadmium	ND			6010C
7440-47-3	Chromium	ND			6010C
7439-92-1	Lead	ND			6010C
7782-49-2	Selenium	ND			6010C
7440-22-4	Silver	ND			6010C

3-IN
METHOD BLANK
METALS - TCLP

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1

SDG No.:

Concentration Units: mg/L Lab Sample ID: LB 480-178938/1-B

Instrument Code: ICAP2 Batch No.: 179601

CAS No.	Analyte	Concentration	C	Q	Method
7440-38-2	Arsenic	ND			6010C
7440-39-3	Barium	0.00406			6010C
7440-43-9	Cadmium	ND			6010C
7440-47-3	Chromium	0.00234	J		6010C
7439-92-1	Lead	ND			6010C
7782-49-2	Selenium	ND			6010C
7440-22-4	Silver	ND			6010C

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1

SDG No.:

Concentration Units: mg/L Lab Sample ID: MB 480-179227/2-A

Instrument Code: LEEMAN2 Batch No.: 180600

CAS No.	Analyte	Concentration	C	Q	Method
7439-97-6	Mercury	ND			7470A

3-IN
METHOD BLANK
METALS - TCLP

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1

SDG No.:

Concentration Units: mg/L Lab Sample ID: LB 480-178938/1-C

Instrument Code: LEEMAN2 Batch No.: 180600

CAS No.	Analyte	Concentration	C	Q	Method
7439-97-6	Mercury	ND			7470A

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1

SDG No.:

Lab Sample ID: ICSA 480-179601/9 Instrument ID: ICAP2

Lab File ID: i2050114a-3.asc ICS Source: MEI_07_ICSA_00066

Concentration Units: mg/L

Analyte	True Solution A	Found Solution A	Percent Recovery
Arsenic		**0.0047**	
Barium		**0.0001**	
Cadmium		**-0.0005**	
Chromium		**-0.0021**	
Lead		**-0.0084**	
Selenium		**0.0039**	
Silver		**0.0025**	
Aluminum	*500*	*522*	*104*
Antimony		*-0.0281*	
Beryllium		*-0.0001*	
Boron		*-0.0077*	
Calcium	*500*	*476*	*95*
Cobalt		*0.0005*	
Copper		*0.0038*	
Iron	*200*	*195*	*98*
Lithium		*0.0412*	
Magnesium	*500*	*528*	*106*
Manganese		*0.0047*	
Molybdenum		*-0.0052*	
Nickel		*0.0050*	
Potassium		*-0.0233*	
Silicon		*-0.0319*	
Sodium		*0.0255*	
Strontium		*0.0146*	
Sulfur		*-0.0600*	
Thallium		*-0.0096*	
Tin		*0.0056*	
Titanium		*0.0026*	
Vanadium		*0.0040*	
Zinc		*0.0006*	

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.: 480-58807-1

SDG No.:

Lab Sample ID: ICSAB 480-179601/10 Instrument ID: ICAP2

Lab File ID: i2050114a-3.asc ICS Source: MEI_08_ICSAB_00079

Concentration Units: mg/L

Analyte	True Solution AB	Found Solution AB	Found Percent Recovery
Arsenic	**0.100**	**0.113**	**113**
Barium	**0.500**	**0.493**	**99**
Cadmium	**1.00**	**1.01**	**101**
Chromium	**0.500**	**0.479**	**96**
Lead	**0.0500**	**0.0424**	**85**
Selenium	**0.0500**	**0.0511**	**102**
Silver	**0.200**	**0.216**	**108**
Aluminum	*501*	*488*	*97*
Antimony	*0.600*	*0.589*	*98*
Beryllium	*0.500*	*0.484*	*97*
Boron		*-0.0036*	
Calcium	*501*	*443*	*89*
Cobalt	*0.500*	*0.504*	*101*
Copper	*0.500*	*0.532*	*106*
Iron	*100*	*89.6*	*90*
Lithium	*0.500*	*0.537*	*107*
Magnesium	*501*	*507*	*101*
Manganese	*0.500*	*0.470*	*94*
Molybdenum		*-0.0042*	
Nickel	*1.00*	*0.975*	*98*
Potassium		*-0.0285*	
Silicon	*1.00*	*0.968*	*97*
Sodium		*0.0827*	
Strontium	*0.500*	*0.483*	*97*
Sulfur	*0.500*	*0.520*	*104*
Thallium	*0.100*	*0.0885*	*89*
Tin		*0.0043*	
Titanium		*0.0039*	
Vanadium	*0.500*	*0.496*	*99*
Zinc	*1.00*	*0.968*	*97*

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

FORM IVA-IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 480-179139/3-A

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1

Sample Matrix: Water LCS Source: MED_TCLP_00010

Analyte	Water(mg/L)							
	True	Found	C	%R	Limits		Q	Method
Arsenic	1.00	1.09		109	80	120		6010C
Barium	1.00	0.970		97	80	120		6010C
Cadmium	1.00	1.04		104	80	120		6010C
Chromium	1.00	0.994		99	80	120		6010C
Lead	1.00	1.02		102	80	120		6010C
Selenium	1.00	1.10		110	80	120		6010C
Silver	1.00	1.05		105	80	120		6010C

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

FORM VIIA - IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 480-179227/3-A

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1

Sample Matrix: Water LCS Source: MEH_HG_TCLP_W_00046

Analyte	Water(mg/L)							
	True	Found	C	%R	Limits		Q	Method
Mercury	0.00668	0.00480		72	80	120		7470A

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

FORM VIIA - IN

9-IN
DETECTION LIMITS
METALS - TCLP

Lab Name: TestAmerica Buffalo Job Number: 480-58807-1

SDG Number:

Matrix: Solid Instrument ID: ICAP2

Method: 6010C MDL Date: 07/17/2013 11:47

Prep Method: 3010A

Leach Method: 1311

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Arsenic	189.042	0.015	0.00555
Barium	455.403	0.002	0.0007
Cadmium	228.802	0.002	0.0005
Chromium	267.716	0.004	0.001
Lead	220.353	0.01	0.003
Selenium	196.090	0.025	0.0087
Silver	328.068	0.006	0.0017

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS - TCLP

Lab Name: TestAmerica Buffalo Job Number: 480-58807-1

SDG Number:

Matrix: Solid Instrument ID: ICAP2

Method: 6010C XMDL Date: 07/17/2013 11:47

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Arsenic	189.042	0.015	0.00555
Barium	455.403	0.002	0.0007
Cadmium	228.802	0.002	0.0005
Chromium	267.716	0.004	0.001
Lead	220.353	0.01	0.003
Selenium	196.090	0.025	0.0087
Silver	328.068	0.006	0.0017

9-IN
DETECTION LIMITS
METALS - TCLP

Lab Name: TestAmerica Buffalo Job Number: 480-58807-1

SDG Number:

Matrix: Solid Instrument ID: LEEMAN2

Method: 7470A MDL Date: 01/28/2010 00:00

Prep Method: 7470A

Leach Method: 1311

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Mercury	253.7	0.0002	0.00012

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS - TCLP

Lab Name: TestAmerica Buffalo Job Number: 480-58807-1

SDG Number:

Matrix: Solid Instrument ID: LEEMAN2

Method: 7470A XMDL Date: 01/28/2010 00:00

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Mercury	253.7	0.0002	0.00012

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: TestAmerica Buffalo Job Number: 480-58807-1

SDG No.:

ICP-AES Instrument ID: ICAP2 Date: 04/01/2014

Analyte	Wave Length	Ag	Al	As	Au	B	Ba	Be	Ca	Cd	Co	Cr	Cu	Fe	K
Aluminum															
Aluminum	308.215														
Antimony												0.013231			
Antimony	206.833											0.001963			
Arsenic												-0.012912			
Arsenic	189.042		-0.000015									-0.013790			
Barium															
Barium	455.403														
Beryllium															
Beryllium	313.042														
Boron															
Boron	208.959														
Cadmium				0.004019											
Cadmium	228.802			0.004019										-0.000006	
Calcium															
Calcium	317.933														
Chromium															
Chromium	267.716														
Cobalt															
Cobalt	228.616													-0.000005	
Copper															
Copper	324.754														
Iron															
Iron	259.940														
Lead			-0.000020										-0.000878	0.000060	
Lead	220.353		-0.000010										0.000928	0.000035	
Lithium	670.784								0.000122						
Magnesium															
Magnesium	279.079													-0.001077	
Manganese															

X-IN

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: TestAmerica Buffalo Job Number: 480-58807-1

SDG No.:

ICP-AES Instrument ID: ICAP2 Date: 04/01/2014

Analyte	Wave Length	Ag	Al	As	Au	B	Ba	Be	Ca	Cd	Co	Cr	Cu	Fe	K
Manganese	257.610														
Molybdenum															
Molybdenum	202.030														
Nickel														0.000022	
Nickel	231.604													0.000022	
Potassium															
Potassium	766.490														
Selenium			-0.000043												
Selenium	196.090		-0.000005												
Silicon															
Silicon	288.158														
Silver				0.004019										-0.000004	
Silver	328.068													-0.000012	
Sodium															
Sodium	589.592														
Strontium															
Strontium	407.771														
Sulfur															
Sulfur	182.034														
Thallium											0.001994	0.001994			
Thallium	190.856										0.003284				
Tin															
Tin	189.989														
Titanium												0.000231			
Titanium	334.904							-0.000993				0.000231			
Vanadium														0.000015	
Vanadium	292.402							0.000359						0.000028	
Zinc															
Zinc	206.200											-0.002035			

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: TestAmerica Buffalo Job Number: 480-58807-1

SDG No.:

ICP-AES Instrument ID: ICAP2 Date: 04/01/2014

Analyte	Wave Length	Li	Mg	Mn	Mo	Na	Ni	Pb	S	Sb	Se	Si	Sn	Sr	Ti
Aluminum	308.215				0.023902										
Aluminum															
Antimony	206.833														
Antimony															
Arsenic	189.042				-0.000634										
Arsenic					-0.001781										
Barium	455.403											0.000002			
Barium															
Beryllium	313.042														-0.000993
Beryllium															-0.000612
Boron	208.959				0.044535										
Boron					0.030599										
Cadmium	228.802						-0.000145								0.000064
Cadmium							-0.000145								
Calcium	317.933														
Calcium															
Chromium	267.716			0.000095											
Chromium				0.000193											
Cobalt	228.616				-0.001534							-0.000011			0.001991
Cobalt					-0.001013							-0.000011			0.001991
Copper	324.754														-0.000198
Copper															-0.000198
Iron	259.940														
Iron															
Lead	220.353			0.000110	-0.001589							0.000719			-0.000701
Lead					-0.001589							0.000052			-0.000701
Lithium	670.784														
Magnesium				-0.004360											
Magnesium	279.079			-0.011477	-0.032713										
Manganese															

X-IN

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: TestAmerica Buffalo Job Number: 480-58807-1

SDG No.:

ICP-AES Instrument ID: ICAP2 Date: 04/01/2014

Analyte	Wave Length	Li	Mg	Mn	Mo	Na	Ni	Pb	S	Sb	Se	Si	Sn	Sr	Ti
Manganese	257.610														
Molybdenum															
Molybdenum	202.030														
Nickel															
Nickel	231.604											-0.000019			
Potassium															
Potassium	766.490														
Selenium															
Selenium	196.090			0.000392								0.000023			
Silicon															
Silicon	288.158										0.000023				
Silver				0.000158											
Silver	328.068			0.000068											-0.000179
Sodium															
Sodium	589.592														
Strontium															
Strontium	407.771														
Sulfur															
Sulfur	182.034			0.003542											
Thallium															
Thallium	190.856			0.000222											
Tin															-0.000516
Tin	189.989														-0.000516
Titanium															
Titanium	334.904														
Vanadium					-0.003604										-0.000229
Vanadium	292.402			0.000202	-0.004871										0.000664
Zinc															
Zinc	206.200														

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: TestAmerica Buffalo Job Number: 480-58807-1

SDG No.:

ICP-AES Instrument ID: ICAP2 Date: 04/01/2014

Analyte	Wave Length	Tl	V	Zn											
Aluminum			0.041423												
Aluminum	308.215		0.138532												
Antimony															
Antimony	206.833														
Arsenic															
Arsenic	189.042														
Barium															
Barium	455.403														
Beryllium			0.000155												
Beryllium	313.042		0.000359												
Boron															
Boron	208.959														
Cadmium															
Cadmium	228.802		0.000084												
Calcium															
Calcium	317.933														
Chromium															
Chromium	267.716														
Cobalt															
Cobalt	228.616														
Copper			-0.000239												
Copper	324.754		-0.000239												
Iron															
Iron	259.940														
Lead															
Lead	220.353		-0.000125												
Lithium	670.784														
Magnesium															
Magnesium	279.079	0.010850													
Manganese															

X-IN

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: TestAmerica Buffalo Job Number: 480-58807-1

SDG No.:

ICP-AES Instrument ID: ICAP2 Date: 04/01/2014

Analyte	Wave Length	Tl	V	Zn											
Manganese	257.610		-0.000071												
Molybdenum															
Molybdenum	202.030		-0.000236												
Nickel		0.000262													
Nickel	231.604	0.000262													
Potassium															
Potassium	766.490														
Selenium															
Selenium	196.090														
Silicon															
Silicon	288.158		0.022326												
Silver			0.000075												
Silver	328.068		0.000075												
Sodium															
Sodium	589.592														
Strontium															
Strontium	407.771														
Sulfur															
Sulfur	182.034														
Thallium			-0.006830												
Thallium	190.856		-0.000030												
Tin															
Tin	189.989														
Titanium															
Titanium	334.904														
Vanadium															
Vanadium	292.402														
Zinc															
Zinc	206.200														

11-IN
LINEAR RANGES
METALS

Lab Name: TestAmerica Buffalo Job No: 480-58807-1

SDG No.:

Instrument ID: ICAP2 Date: 03/27/2014 16:28

Analyte	Integ. Time (Sec.)	Concentration (mg/L)	Method
Arsenic	15	40	6010C
Barium	15	10	6010C
Cadmium	15	4	6010C
Chromium	15	40	6010C
Lead	15	120	6010C
Selenium	15	60	6010C
Silver	15	2	6010C

11-IN
LINEAR RANGES
METALS

Lab Name: TestAmerica Buffalo Job No: 480-58807-1

SDG No.:

Instrument ID: LEEMAN2 Date: 02/06/2014 08:36

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	Method
Mercury	10	10	7470A

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1

SDG No.:

Prep Method: 3010A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
LB 480-178938/1-B	04/30/2014 10:35	179139		50	50
MB 480-179139/2-A	04/30/2014 10:35	179139		50	50
LCS 480-179139/3-A	04/30/2014 10:35	179139		50	50
480-58807-1	04/30/2014 10:35	179139		50	50
480-58807-2	04/30/2014 10:35	179139		50	50
480-58807-3	04/30/2014 10:35	179139		50	50
480-58807-4	04/30/2014 10:35	179139		50	50

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1

SDG No.:

Prep Method: 7470A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
LB 480-178938/1-C	05/01/2014 08:50	179227		30	50
MB 480-179227/2-A	05/01/2014 08:50	179227		30	50
LCS 480-179227/3-A	05/01/2014 08:50	179227		30	50
480-58807-1	05/01/2014 08:50	179227		30	50
480-58807-2	05/01/2014 08:50	179227		30	50
480-58807-3	05/01/2014 08:50	179227		30	50
480-58807-4	05/01/2014 08:50	179227		30	50

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1

SDG No.:

Instrument ID: ICAP2 Method: 6010C

Start Date: 05/01/2014 10:30 End Date: 05/01/2014 16:15

Lab Sample ID	D/F	Type	Time	Analytes																			
				Ag	As	Ba	Cd	Cr	Pb	Se													
IC 480-179601/1			10:30	X	X	X	X	X	X	X													
IC 480-179601/2			10:33	X	X	X	X	X	X	X													
IC 480-179601/3			10:35	X	X	X	X	X	X	X													
IC 480-179601/4			10:38	X	X	X	X	X	X	X													
ICV 480-179601/5	1		10:41	X	X	X	X	X	X	X													
ICB 480-179601/6	1		10:43	X	X	X	X	X	X	X													
ICVL 480-179601/7	1		10:46	X	X	X	X	X	X	X													
CRI 480-179601/8			10:49																				
ICSA 480-179601/9	1		10:52	X	X	X	X	X	X	X													
ICSAB 480-179601/10	1		10:55	X	X	X	X	X	X	X													
CCV 480-179601/11			10:58																				
CCB 480-179601/12			11:00																				
CCVL 480-179601/13			11:03																				
CCV 480-179601/14	1		14:27	X	X	X	X	X	X	X													
CCB 480-179601/15	1		14:29	X	X	X	X	X	X	X													
CCVL 480-179601/16	1		14:32	X	X	X	X	X	X	X													
LB 480-178938/1-B	1	P	14:49	X	X	X	X	X	X	X													
MB 480-179139/2-A	1	T	14:52	X	X	X	X	X	X	X													
LCS 480-179139/3-A	1	T	14:55	X	X	X	X	X	X	X													
ZZZZZZ			14:57																				
CCV 480-179601/21	1		15:00	X	X	X	X	X	X	X													
CCB 480-179601/22	1		15:03	X	X	X	X	X	X	X													
CCVL 480-179601/23	1		15:06	X	X	X	X	X	X	X													
ZZZZZZ			15:08																				
ZZZZZZ			15:11																				
ZZZZZZ			15:14																				
ZZZZZZ			15:17																				
ZZZZZZ			15:20																				
ZZZZZZ			15:23																				
ZZZZZZ			15:26																				
CCV 480-179601/31	1		15:34	X	X	X	X	X	X	X													
CCB 480-179601/32	1		15:37	X	X	X	X	X	X	X													
CCVL 480-179601/33	1		15:41	X	X	X	X	X	X	X													
480-58807-1	1	P	15:44	X	X	X	X	X	X	X													
480-58807-2	1	P	15:47	X	X	X	X	X	X	X													
480-58807-3	1	P	15:50	X	X	X	X	X	X	X													
480-58807-4	1	P	15:53	X	X	X	X	X	X	X													
CCV 480-179601/38	1		16:10	X	X	X	X	X	X	X													
CCB 480-179601/39	1		16:12	X	X	X	X	X	X	X													
CCVL 480-179601/40	1		16:15	X	X	X	X	X	X	X													

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1

SDG No.:

Instrument ID: ICAP2 Method: 6010C

Start Date: 05/01/2014 10:30 End Date: 05/01/2014 16:15

Prep Types
P = TCLP
T = Total/NA

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1

SDG No.:

Instrument ID: LEEMAN2 Method: 7470A

Start Date: 05/01/2014 11:22 End Date: 05/01/2014 12:08

Lab Sample ID	D / F	Type	Time	Analytes																			
				Hg																			
ICV 480-180600/1	1		11:22	X																			
ICB 480-180600/2	1		11:23	X																			
ICVL 480-180600/3	1		11:25	X																			
CCV 480-180600/4	1		11:27	X																			
CCB 480-180600/5	1		11:29	X																			
LB 480-178938/1-C	1	P	11:31	X																			
MB 480-179227/2-A	1	T	11:32	X																			
LCS 480-179227/3-A	1	T	11:34	X																			
ZZZZZZ			11:46																				
ZZZZZZ			11:48																				
ZZZZZZ			11:50																				
ZZZZZZ			11:52																				
ZZZZZZ			11:53																				
480-58807-1	1	P	11:55	X																			
480-58807-2	1	P	11:57	X																			
CCV 480-180600/16	1		11:58	X																			
CCB 480-180600/17	1		12:00	X																			
480-58807-3	1	P	12:02	X																			
480-58807-4	1	P	12:03	X																			
CCV 480-180600/20	1		12:05	X																			
CCB 480-180600/21	1		12:06	X																			
CCVL 480-180600/22	1		12:08	X																			

Prep Types

P = TCLP

T = Total/NA

Run File: I2050114A Instrument: ICAP2

Analyst: JRK Jan 5/2/14 Data Review: 5/2/14

Spikes IDs: 1730804(W1), 1730739 (W2), 1886662(Sn), 1890567(Ag), 1905940(Si), 1320125(TCLP)

Pipette IDs: 04-17-14-(1-7,8,10,13,14)
Internal Standard: 1987266

Seq#	Run File ID	Sample ID	Date / Time	Type
1	I2050114A	ic-2039081	05/01/14 10:30 AM	Standard
2	I2050114A	ic-1999432	05/01/14 10:33 AM	Standard
3	I2050114A	ic-1999330	05/01/14 10:35 AM	Standard
4	I2050114A	ic-1999327	05/01/14 10:38 AM	Standard
5	I2050114A	icv-2039079	05/01/14 10:41 AM	QC
6	I2050114A	icb-2039081	05/01/14 10:43 AM	QC
7	I2050114A	icvl-1999432	05/01/14 10:46 AM	QC
8	I2050114A	cri-1953286	05/01/14 10:49 AM	QC
9	I2050114A	cri-1953286	05/01/14 10:49 AM	QC
10	I2050114A	icsa-2039056	05/01/14 10:52 AM	QC
11	I2050114A	icsab-1937947	05/01/14 10:55 AM	QC
12	I2050114A	ccv-2039078	05/01/14 10:58 AM	QC
13	I2050114A	ccb-2039081	05/01/14 11:00 AM	QC
14	I2050114A	CCVL	05/01/14 11:03 AM	QC
15	I2050114A	BLANK	05/01/14 11:06 AM	Unknown
16	I2050114A	CCV	05/01/14 11:09 AM	QC
17	I2050114A	CCB	05/01/14 11:11 AM	QC
18	I2050114A	CCVL	05/01/14 11:14 AM	QC
19	I2050114A	mb 480-179065/1-a	05/01/14 11:17 AM	Unknown
20	I2050114A	lcs 480-179065/2-a	05/01/14 11:20 AM	Unknown
21	I2050114A	480-58826-a-1-a	05/01/14 11:22 AM	Unknown
22	I2050114A	480-58826-a-1-aSD@5	05/01/14 11:25 AM	Unknown
23	I2050114A	480-58826-a-1-a PDS	05/01/14 11:28 AM	Unknown
24	I2050114A	480-58826-a-1-b ms	05/01/14 11:30 AM	Unknown
25	I2050114A	480-58826-a-1-c msd	05/01/14 11:33 AM	Unknown
26	I2050114A	480-58845-d-1-a	05/01/14 11:36 AM	Unknown
27	I2050114A	480-58844-d-1-a	05/01/14 11:38 AM	Unknown
28	I2050114A	CCV	05/01/14 11:41 AM	QC
29	I2050114A	CCB	05/01/14 11:44 AM	QC
30	I2050114A	480-58844-a-2-a	05/01/14 11:47 AM	Unknown
31	I2050114A	480-58844-e-4-a	05/01/14 11:49 AM	Unknown
32	I2050114A	480-58849-e-1-a	05/01/14 11:52 AM	Unknown
33	I2050114A	480-58849-e-2-a	05/01/14 11:55 AM	Unknown
34	I2050114A	480-58849-e-3-a	05/01/14 11:58 AM	Unknown
35	I2050114A	480-58860-c-1-a	05/01/14 12:00 PM	Unknown
36	I2050114A	480-58862-c-1-a	05/01/14 12:03 PM	Unknown
37	I2050114A	480-58855-b-1-a	05/01/14 12:06 PM	Unknown
38	I2050114A	480-58855-b-1-b ms	05/01/14 12:09 PM	Unknown
39	I2050114A	480-58855-b-1-c msd	05/01/14 12:11 PM	Unknown

40	I2050114A	CCV	05/01/14 12:14 PM QC
41	I2050114A	CCB	05/01/14 12:17 PM QC
42	I2050114A	480-58855-b-2-a	05/01/14 12:20 PM Unknown
43	I2050114A	480-58841-e-1-a	05/01/14 12:22 PM Unknown
44	I2050114A	480-58852-d-1-a	05/01/14 12:25 PM Unknown
45	I2050114A	480-58594-2 SOL RAW	05/01/14 12:28 PM Unknown
46	I2050114A	480-58594-4 SOL RAW	05/01/14 12:31 PM Unknown
47	I2050114A	480-58597-1 SOL RAW	05/01/14 12:33 PM Unknown
48	I2050114A	480-58513-2 SOL RAW	05/01/14 12:36 PM Unknown
49	I2050114A	480-58728-10 SOL RAW	05/01/14 12:39 PM Unknown
50	I2050114A	480-58728-18 SOL RAW	05/01/14 12:42 PM Unknown
51	I2050114A	BLANK	05/01/14 12:45 PM Unknown
52	I2050114A	CCV	05/01/14 12:47 PM QC
53	I2050114A	CCB	05/01/14 12:50 PM QC
54	I2050114A	CCVL	05/01/14 12:53 PM QC
55	I2050114A	480-58472-1 SOL RAW	05/01/14 12:56 PM Unknown
56	I2050114A	480-58522-11 SOL RAW	05/01/14 12:59 PM Unknown
57	I2050114A	480-58522-2 SOL RAW	05/01/14 01:01 PM Unknown
58	I2050114A	480-58689-3 RAW	05/01/14 01:04 PM Unknown
59	I2050114A	480-58605-2 RAW	05/01/14 01:07 PM Unknown
60	I2050114A	480-58607-2 RAW	05/01/14 01:10 PM Unknown
61	I2050114A	BLANK	05/01/14 01:12 PM Unknown
62	I2050114A	BLANK	05/01/14 01:15 PM Unknown
63	I2050114A	mb 480-179145/1-a	05/01/14 01:18 PM Unknown
64	I2050114A	CCV	05/01/14 01:21 PM QC
65	I2050114A	CCB	05/01/14 01:23 PM QC
66	I2050114A	CCVL	05/01/14 01:26 PM QC
67	I2050114A	lcs 480-179145/2-a	05/01/14 01:29 PM Unknown
68	I2050114A	480-58882-d-1-a	05/01/14 01:32 PM Unknown
69	I2050114A	480-58882-d-2-a	05/01/14 01:35 PM Unknown
70	I2050114A	480-58882-d-3-a	05/01/14 01:37 PM Unknown
71	I2050114A	480-58882-d-4-a	05/01/14 01:40 PM Unknown
72	I2050114A	480-58882-d-5-a	05/01/14 01:43 PM Unknown
73	I2050114A	480-58882-d-6-a	05/01/14 01:45 PM Unknown
74	I2050114A	480-58882-d-7-a	05/01/14 01:48 PM Unknown
75	I2050114A	480-58882-d-7-aSD@5	05/01/14 01:51 PM Unknown
76	I2050114A	CCV	05/01/14 01:54 PM QC
77	I2050114A	CCB	05/01/14 01:56 PM QC
78	I2050114A	CCVL	05/01/14 01:59 PM QC
79	I2050114A	480-58882-d-7-a pds	05/01/14 02:02 PM Unknown
80	I2050114A	480-58882-d-7-b ms	05/01/14 02:05 PM Unknown
81	I2050114A	480-58882-d-7-c msd	05/01/14 02:07 PM Unknown
82	I2050114A	480-58882-d-8-a	05/01/14 02:10 PM Unknown
83	I2050114A	480-58882-d-9-a	05/01/14 02:13 PM Unknown
84	I2050114A	480-58882-d-10-a	05/01/14 02:16 PM Unknown
85	I2050114A	480-58882-d-11-a	05/01/14 02:18 PM Unknown
86	I2050114A	480-58882-d-12-a	05/01/14 02:21 PM Unknown
87	I2050114A	480-58882-d-13-a	05/01/14 02:24 PM Unknown
88	I2050114A	CCV	05/01/14 02:27 PM QC
89	I2050114A	CCB	05/01/14 02:29 PM QC

90	I2050114A	CCVL	05/01/14 02:32 PM QC
91	I2050114A	480-58882-d-14-a	05/01/14 02:35 PM Unknown
92	I2050114A	480-58882-d-15-a	05/01/14 02:38 PM Unknown
93	I2050114A	480-58882-d-16-a	05/01/14 02:41 PM Unknown
94	I2050114A	480-58882-d-17-a	05/01/14 02:43 PM Unknown
95	I2050114A	blank	05/01/14 02:46 PM Unknown
96	I2050114A	LB 480-178938/1-B	05/01/14 02:49 PM Unknown
97	I2050114A	MB 480-179139/2-A	05/01/14 02:52 PM Unknown
98	I2050114A	LCS 480-179139/3-A	05/01/14 02:55 PM Unknown
99	I2050114A	blank	05/01/14 02:57 PM Unknown
100	I2050114A	CCV	05/01/14 03:00 PM QC
101	I2050114A	CCB	05/01/14 03:03 PM QC
102	I2050114A	CCVL	05/01/14 03:06 PM QC
103	I2050114A	480-58735-A-1-B	05/01/14 03:08 PM Unknown
104	I2050114A	480-58755-A-1-E	05/01/14 03:11 PM Unknown
105	I2050114A	480-58755-A-1-Esd@5	05/01/14 03:14 PM Unknown
106	I2050114A	480-58755-A-1-E pds	05/01/14 03:17 PM Unknown
107	I2050114A	480-58755-A-1-F MS	05/01/14 03:20 PM Unknown
108	I2050114A	480-58755-A-1-G MSD	05/01/14 03:23 PM Unknown
109	I2050114A	480-58767-A-1-C	05/01/14 03:26 PM Unknown
110	I2050114A	blank	05/01/14 03:28 PM Unknown
111	I2050114A	blank	05/01/14 03:31 PM Unknown
112	I2050114A	CCV	05/01/14 03:34 PM QC
113	I2050114A	CCB	05/01/14 03:37 PM QC
114	I2050114A	CCVL	05/01/14 03:41 PM QC
115	I2050114A	480-58807-B-1-D	05/01/14 03:44 PM Unknown
116	I2050114A	480-58807-C-2-D	05/01/14 03:47 PM Unknown
117	I2050114A	480-58807-B-3-D	05/01/14 03:50 PM Unknown
118	I2050114A	480-58807-C-4-D	05/01/14 03:53 PM Unknown
119	I2050114A	blank	05/01/14 03:56 PM Unknown
120	I2050114A	blank	05/01/14 03:59 PM Unknown
121	I2050114A	LB2 480-178838/1-B	05/01/14 04:01 PM Unknown
122	I2050114A	MB 480-178936/2-A	05/01/14 04:04 PM Unknown
123	I2050114A	LCS 480-178936/3-A	05/01/14 04:07 PM Unknown
124	I2050114A	CCV	05/01/14 04:10 PM QC
125	I2050114A	CCB	05/01/14 04:12 PM QC
126	I2050114A	CCVL	05/01/14 04:15 PM QC
127	I2050114A	480-58343-A-25-G	05/01/14 04:18 PM Unknown
128	I2050114A	480-58343-A-25-Gsd@5	05/01/14 04:21 PM Unknown
129	I2050114A	480-58343-A-25-G pds	05/01/14 04:24 PM Unknown
130	I2050114A	480-58343-A-25-H MS	05/01/14 04:26 PM Unknown
131	I2050114A	480-58343-A-25-I MSD	05/01/14 04:29 PM Unknown
132	I2050114A	blank	05/01/14 04:32 PM Unknown
133	I2050114A	blank	05/01/14 04:35 PM Unknown
134	I2050114A	blank	05/01/14 04:38 PM Unknown
135	I2050114A	MB 480-179224/1-A	05/01/14 04:41 PM Unknown
136	I2050114A	CCV	05/01/14 04:43 PM QC
137	I2050114A	CCB	05/01/14 04:46 PM QC
138	I2050114A	CCVL	05/01/14 04:49 PM QC
139	I2050114A	LCSSRM 480-179224/2-	05/01/14 04:52 PM Unknown

140	I2050114A	480-58830-A-1-A	05/01/14 04:54 PM Unknown
141	I2050114A	480-58830-A-1-Asd@5	05/01/14 04:57 PM Unknown
142	I2050114A	480-58830-A-1-A pds	05/01/14 05:00 PM Unknown
143	I2050114A	480-58830-A-1-B MS	05/01/14 05:03 PM Unknown
144	I2050114A	480-58830-A-1-C MSD	05/01/14 05:06 PM Unknown
145	I2050114A	480-58830-A-2-A	05/01/14 05:09 PM Unknown
146	I2050114A	blank	05/01/14 05:12 PM Unknown
147	I2050114A	blank	05/01/14 05:15 PM Unknown
148	I2050114A	CCV	05/01/14 05:17 PM QC
149	I2050114A	CCB	05/01/14 05:20 PM QC
150	I2050114A	CCVL	05/01/14 05:23 PM QC
151	I2050114A	480-58830-A-3-A	05/01/14 05:26 PM Unknown
152	I2050114A	480-58830-A-4-A	05/01/14 05:28 PM Unknown
153	I2050114A	480-58830-A-5-A	05/01/14 05:31 PM Unknown
154	I2050114A	480-58830-A-5-A@5	05/01/14 05:34 PM Unknown
155	I2050114A	480-58830-A-5-A@10	05/01/14 05:37 PM Unknown
156	I2050114A	BLANK	05/01/14 05:40 PM Unknown
157	I2050114A	BLANK	05/01/14 05:43 PM Unknown
158	I2050114A	mb 480-179352/1-a	05/01/14 05:45 PM Unknown
159	I2050114A	lcs 480-179352/2-a	05/01/14 05:48 PM Unknown
160	I2050114A	CCV	05/01/14 05:51 PM QC
161	I2050114A	CCB	05/01/14 05:54 PM QC
162	I2050114A	CCVL	05/01/14 05:57 PM QC
163	I2050114A	480-58928-a-1-a	05/01/14 05:59 PM Unknown
164	I2050114A	480-58959-d-1-a	05/01/14 06:02 PM Unknown
165	I2050114A	480-58959-d-2-a	05/01/14 06:05 PM Unknown
166	I2050114A	480-58959-d-2-asd@5	05/01/14 06:08 PM Unknown
167	I2050114A	480-58959-d-2-a pds	05/01/14 06:11 PM Unknown
168	I2050114A	480-58959-d-2-b ms	05/01/14 06:14 PM Unknown
169	I2050114A	480-58959-d-2-c msd	05/01/14 06:16 PM Unknown
170	I2050114A	480-58959-d-3-a	05/01/14 06:19 PM Unknown
171	I2050114A	480-58959-d-4-a	05/01/14 06:22 PM Unknown
172	I2050114A	CCV	05/01/14 06:25 PM QC
173	I2050114A	CCB	05/01/14 06:27 PM QC
174	I2050114A	CCVL	05/01/14 06:30 PM QC
175	I2050114A	480-58959-d-5-a	05/01/14 06:33 PM Unknown
176	I2050114A	480-58959-d-6-a	05/01/14 06:36 PM Unknown
177	I2050114A	480-58959-d-7-a	05/01/14 06:39 PM Unknown
178	I2050114A	480-58959-d-8-a	05/01/14 06:41 PM Unknown
179	I2050114A	480-58959-d-9-a	05/01/14 06:44 PM Unknown
180	I2050114A	480-58959-d-10-a	05/01/14 06:47 PM Unknown
181	I2050114A	480-58959-d-11-a	05/01/14 06:50 PM Unknown
182	I2050114A	480-58959-d-12-a	05/01/14 06:53 PM Unknown
183	I2050114A	480-58959-d-13-a	05/01/14 06:56 PM Unknown
184	I2050114A	CCV	05/01/14 06:59 PM QC
185	I2050114A	CCB	05/01/14 07:01 PM QC
186	I2050114A	CCVL	05/01/14 07:04 PM QC
187	I2050114A	480-58959-d-15-a	05/01/14 07:07 PM Unknown
188	I2050114A	BLank	05/01/14 07:10 PM Unknown
189	I2050114A	MB 480-179271/1-A	05/01/14 07:12 PM Unknown

190	I2050114A	LCS 480-179271/2-A	05/01/14 07:15 PM Unknown
191	I2050114A	480-58929-A-1-A	05/01/14 07:18 PM Unknown
192	I2050114A	480-58929-A-2-A	05/01/14 07:20 PM Unknown
193	I2050114A	480-58931-D-1-A	05/01/14 07:23 PM Unknown
194	I2050114A	480-58933-D-1-A	05/01/14 07:26 PM Unknown
195	I2050114A	480-58933-D-2-A	05/01/14 07:29 PM Unknown
196	I2050114A	CCV	05/01/14 07:31 PM QC
197	I2050114A	CCB	05/01/14 07:34 PM QC
198	I2050114A	CCVL	05/01/14 07:37 PM QC
199	I2050114A	480-58933-D-3-A	05/01/14 07:39 PM Unknown
200	I2050114A	480-58933-D-4-A	05/01/14 07:42 PM Unknown
201	I2050114A	480-58939-A-1-A	05/01/14 07:45 PM Unknown
202	I2050114A	480-58939-A-2-A	05/01/14 07:47 PM Unknown
203	I2050114A	480-58939-A-3-A	05/01/14 07:50 PM Unknown
204	I2050114A	480-58939-A-4-A	05/01/14 07:53 PM Unknown
205	I2050114A	480-58939-A-5-A	05/01/14 07:55 PM Unknown
206	I2050114A	480-58939-A-6-A	05/01/14 07:58 PM Unknown
207	I2050114A	480-58939-A-7-A	05/01/14 08:01 PM Unknown
208	I2050114A	CCV	05/01/14 08:04 PM QC
209	I2050114A	CCB	05/01/14 08:06 PM QC
210	I2050114A	CCVL	05/01/14 08:09 PM QC
211	I2050114A	480-58939-A-8-A	05/01/14 08:12 PM Unknown
212	I2050114A	480-58939-A-9-A	05/01/14 08:14 PM Unknown
213	I2050114A	480-58939-A-9-Asd@5	05/01/14 08:17 PM Unknown
214	I2050114A	480-58939-A-9-A pds	05/01/14 08:20 PM Unknown
215	I2050114A	480-58939-A-9-B MS	05/01/14 08:22 PM Unknown
216	I2050114A	480-58939-A-9-C MSD	05/01/14 08:25 PM Unknown
217	I2050114A	480-58939-A-10-A	05/01/14 08:27 PM Unknown
218	I2050114A	480-58939-A-11-A	05/01/14 08:30 PM Unknown
219	I2050114A	480-58939-A-12-A	05/01/14 08:33 PM Unknown
220	I2050114A	CCV	05/01/14 08:35 PM QC
221	I2050114A	CCB	05/01/14 08:38 PM QC
222	I2050114A	CCVL	05/01/14 08:41 PM QC
223	I2050114A	480-58939-A-13-A	05/01/14 08:43 PM Unknown
224	I2050114A	blank	05/01/14 08:46 PM Unknown
225	I2050114A	CCVL	05/01/14 08:49 PM QC
226	I2050114A	CCV	05/01/14 08:52 PM QC
227	I2050114A	CCB	05/01/14 08:54 PM QC

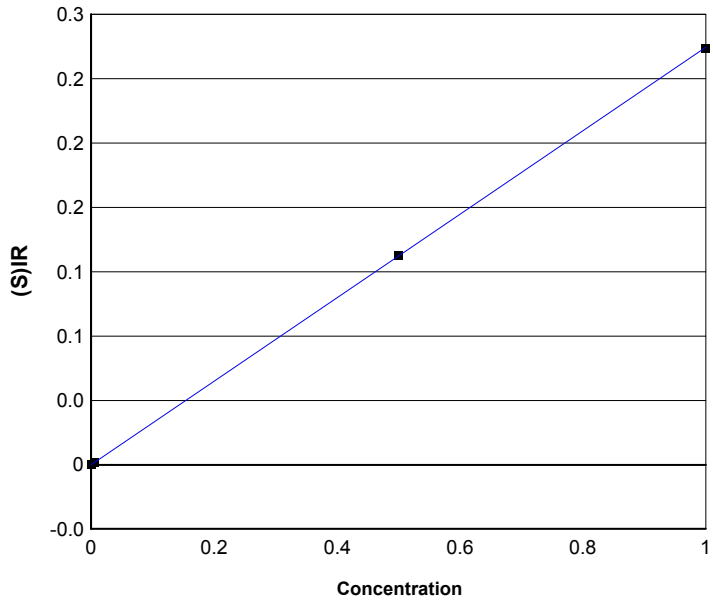
I2050114A

Author: JRK

Published: 5/2/2014 7:44:02AM

Instrument Name: Icap6500 Serial Number: 20094602

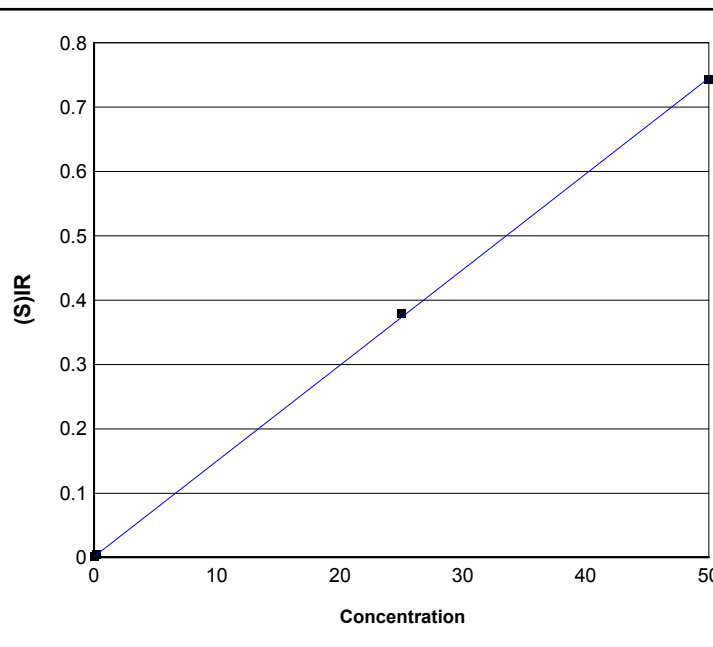
Method Name: ICAP 2 March 2014 (59)



Element Name:	Ag
Element Wavelength:	Ag 328.068 nm
Concentration Units:	ppm
Date of Calibration:	5/1/2014 10:41:07AM
Date of Fit:	5/1/2014 10:41:07AM
Type of Fit:	Linear
Correlation:	0.99996
A0 (Offset):	-0.00020242
A1 (Gain):	0.25976
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

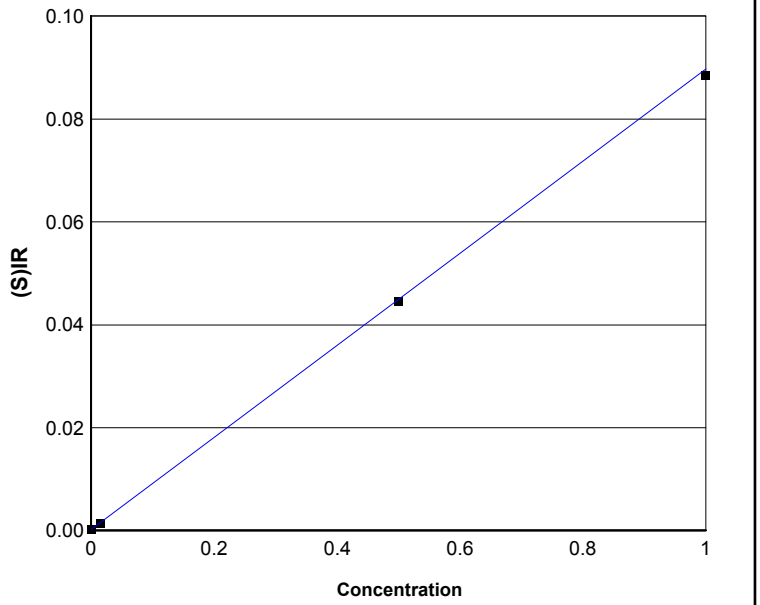
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.0000000000	-0.0000007511	0.00000	-0.00020261	0.000052617	1
IC4	1.0000	1.00000	-0.0025528	-0.25528	0.25872	0.00012453	1
IC2	0.0060000	0.0100000	0.00074477	12.413	0.0015493	0.00014199	1
IC3	0.50000	0.50000	0.0018077	0.36154	0.13006	0.00064427	1



Element Name:	Al
Element Wavelength:	Al 308.215 nm
Concentration Units:	ppm
Date of Calibration:	5/1/2014 10:41:07AM
Date of Fit:	5/1/2014 10:41:07AM
Type of Fit:	Linear
Correlation:	0.99995
A0 (Offset):	0.0014197
A1 (Gain):	0.014882
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

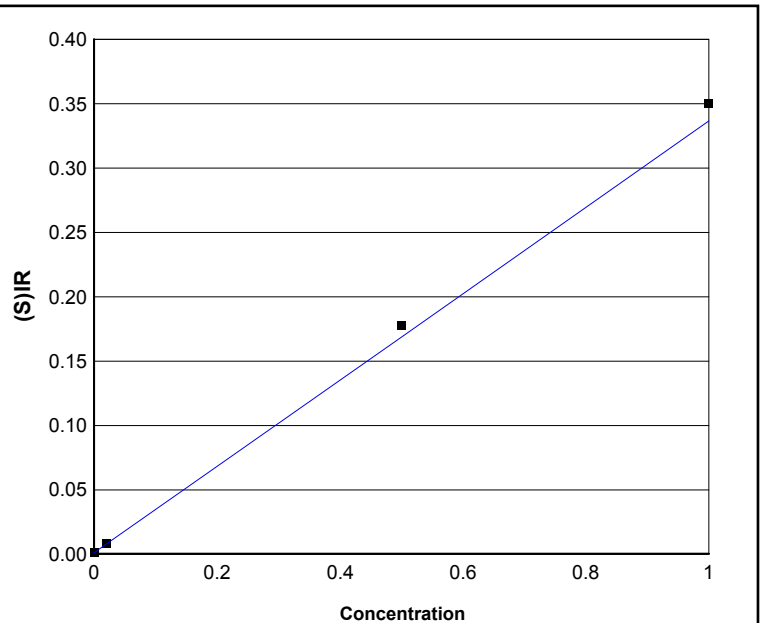
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.000000000	-0.000025172	0.00000	0.0014193	0.000076178	1
IC4	50.000	49.730	-0.27156	-0.54312	0.74392	0.0060355	1
IC2	0.20000	0.22000	0.024281	12.140	0.0047714	0.00040680	1
IC3	25.000	25.250	0.24725	0.98899	0.37837	0.00031367	1



Element Name:	As
Element Wavelength:	As 189.042 nm
Concentration Units:	ppm
Date of Calibration:	5/1/2014 10:41:07AM
Date of Fit:	5/1/2014 10:41:07AM
Type of Fit:	Linear
Correlation:	0.99991
A0 (Offset):	0.00025895
A1 (Gain):	0.089428
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

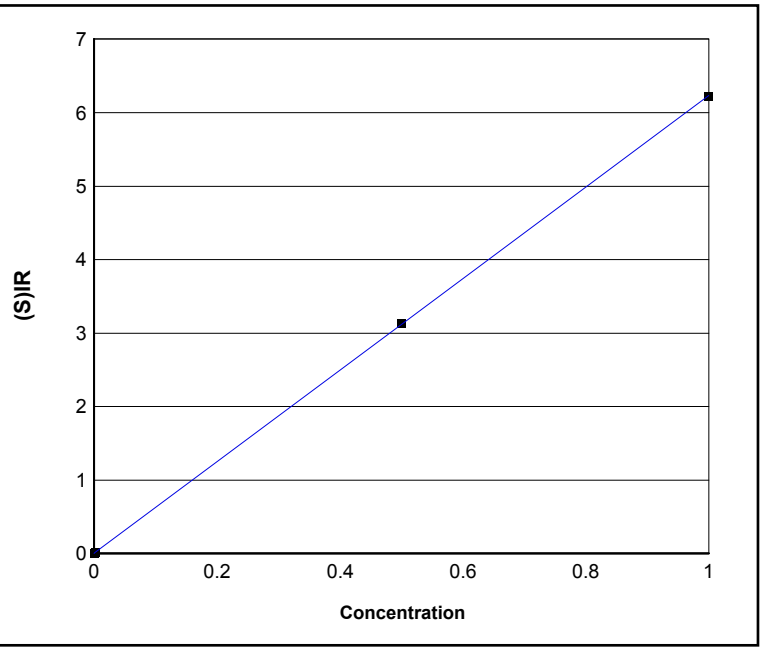
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.0000000000	0.0000018734	0.00000	0.00025912	0.00012717	1
IC4	1.0000	1.00000	-0.000098582	-0.0098582	0.088399	0.000063917	1
IC2	0.015000	0.010000	-0.0019335	-12.890	0.0014220	0.000096895	1
IC3	0.50000	0.50000	0.0020521	0.41042	0.044517	0.00015978	1



Element Name:	B
Element Wavelength:	B 208.959 nm
Concentration Units:	ppm
Date of Calibration:	5/1/2014 10:41:07AM
Date of Fit:	5/1/2014 10:41:07AM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	0.00093561
A1 (Gain):	0.33570
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

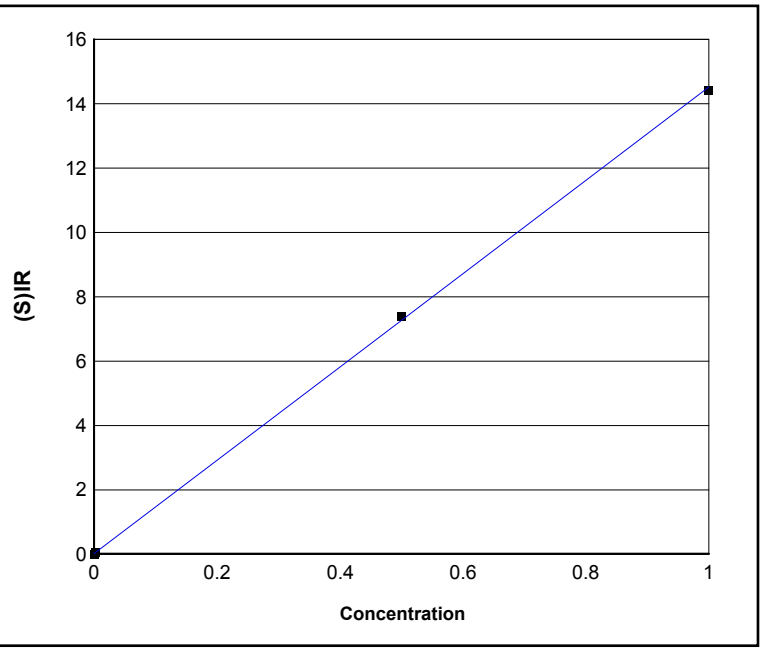
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.0000000000	0.0000000268	0.00000	0.00093562	0.00019325	1
IC4	1.0000	1.00000	-0.0037364	-0.37364	0.35034	0.00031904	1
IC2	0.020000	0.020000	-0.00010566	-0.52829	0.0077637	0.000023552	1
IC3	0.50000	0.50000	0.0038398	0.76796	0.17755	0.00022705	1



Element Name:	Ba
Element Wavelength:	Ba 455.403 nm
Concentration Units:	ppm
Date of Calibration:	5/1/2014 10:41:07AM
Date of Fit:	5/1/2014 10:41:07AM
Type of Fit:	Linear
Correlation:	1.00000
A0 (Offset):	0.0050316
A1 (Gain):	6.2269
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

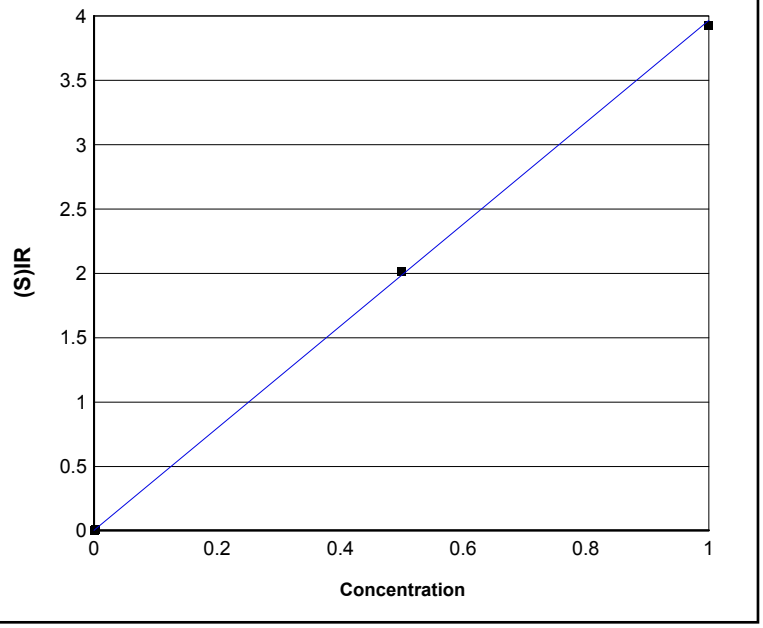
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.0000000000	-0.0000000633	0.00000	0.0050312	0.00013340	1
IC4	1.0000	1.00000	-0.0020616	-0.20616	6.2191	0.029682	1
IC2	0.0020000	0.0000000	0.000059435	2.9718	0.017855	0.000080700	1
IC3	0.50000	0.50000	0.0020022	0.40043	3.1309	0.013792	1



Element Name:	Ba
Element Wavelength:	Ba 455.403 nm
Concentration Units:	ppm
Date of Calibration:	5/1/2014 10:41:07AM
Date of Fit:	5/1/2014 10:41:07AM
Type of Fit:	Linear
Correlation:	0.99992
A0 (Offset):	0.0017661
A1 (Gain):	14.523
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

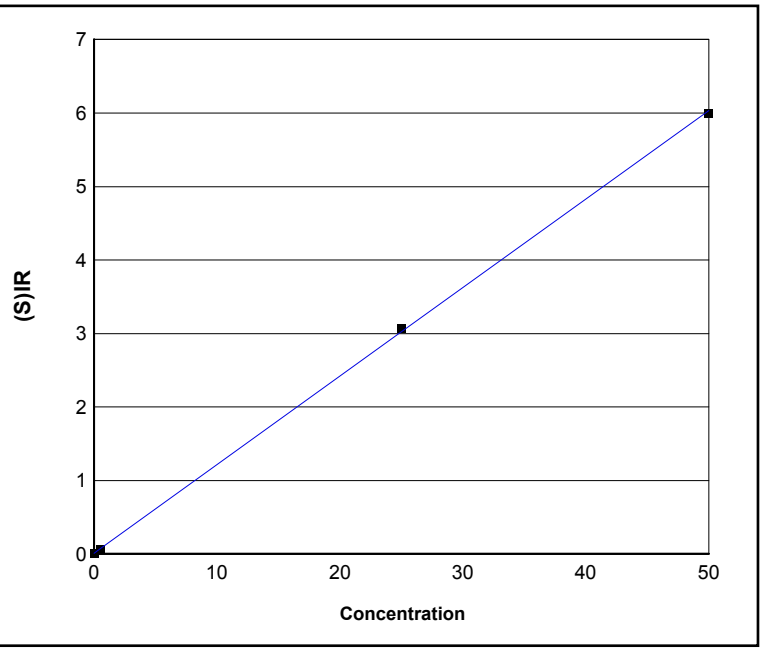
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.0000000000	-0.0000001702	0.00000	0.0017636	0.000071806	1
IC4	1.0000	0.99000	-0.0086412	-0.86412	14.401	0.056136	1
IC2	0.0020000	0.0000000	0.00015356	7.6782	0.033057	0.00038718	1
IC3	0.50000	0.51000	0.0084876	1.6975	7.3873	0.046552	1



Element Name:	Be
Element Wavelength:	Be 313.042 nm
Concentration Units:	ppm
Date of Calibration:	5/1/2014 10:41:07AM
Date of Fit:	5/1/2014 10:41:07AM
Type of Fit:	Linear
Correlation:	0.99993
A0 (Offset):	0.00097637
A1 (Gain):	3.9653
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

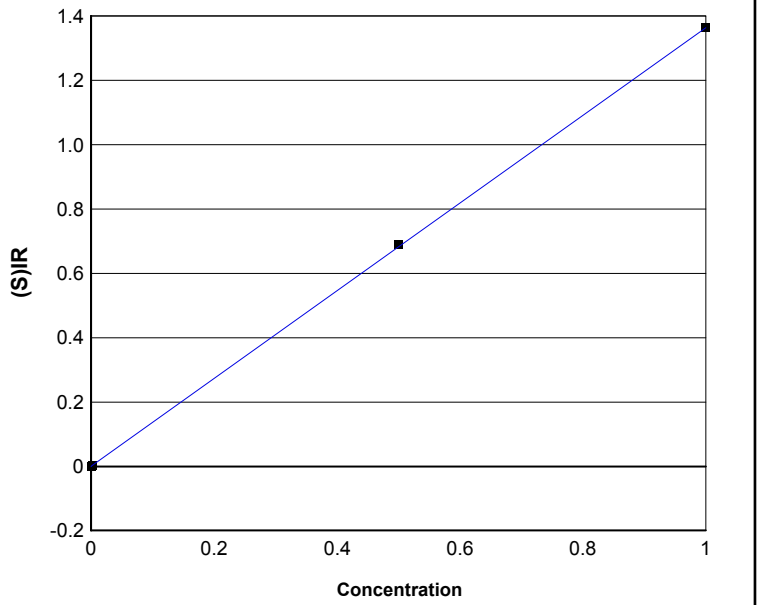
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.0000000000	-0.0000000329	0.00000	0.00097624	0.00040557	1
IC4	1.0000	0.99000	-0.0084136	-0.84136	3.9304	0.038795	1
IC2	0.0020000	0.0000000	0.000016181	0.80905	0.0089586	0.00012721	1
IC3	0.50000	0.51000	0.0083974	1.6795	2.0157	0.0064420	1



Element Name:	Ca
Element Wavelength:	Ca 317.933 nm
Concentration Units:	ppm
Date of Calibration:	5/1/2014 10:41:07AM
Date of Fit:	5/1/2014 10:41:07AM
Type of Fit:	Linear
Correlation:	0.99994
A0 (Offset):	0.0066548
A1 (Gain):	0.12060
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

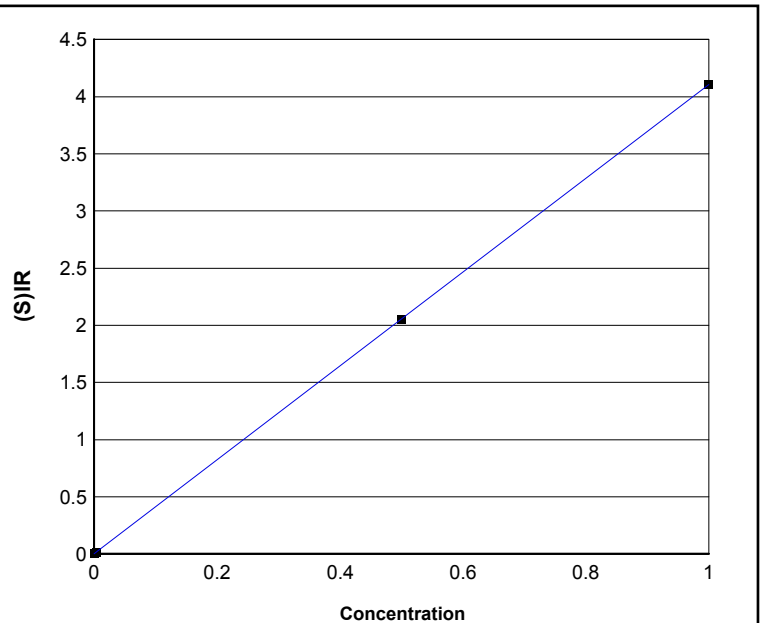
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.0000000000	-0.0000080156	0.00000	0.0066538	0.00011388	1
IC4	50.000	49.610	-0.39104	-0.78208	5.9895	0.049787	1
IC2	0.50000	0.50000	0.0041890	0.83780	0.067460	0.00012805	1
IC3	25.000	25.390	0.38685	1.5474	3.0683	0.0090178	1



Element Name:	Cd
Element Wavelength:	Cd 228.802 nm
Concentration Units:	ppm
Date of Calibration:	5/1/2014 10:41:07AM
Date of Fit:	5/1/2014 10:41:07AM
Type of Fit:	Linear
Correlation:	0.99998
A0 (Offset):	-0.000017876
A1 (Gain):	1.3642
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

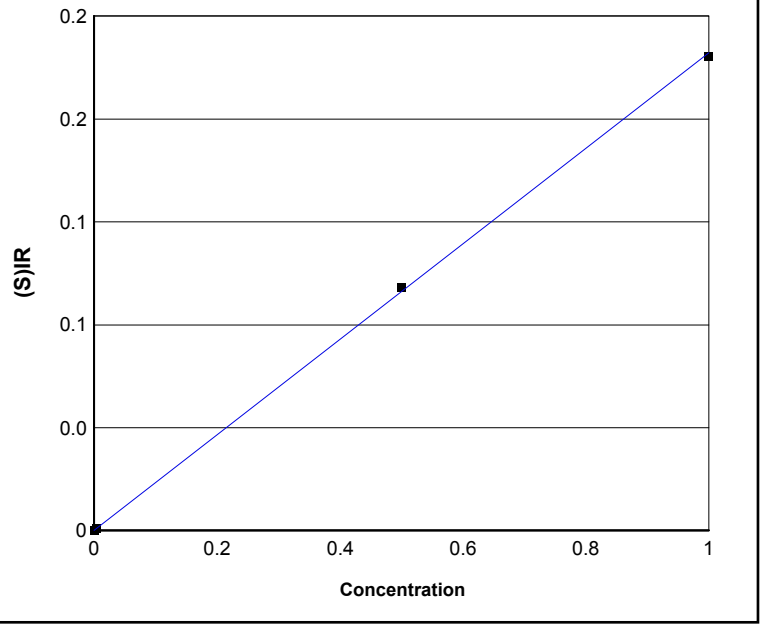
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.0000000000	0.0000002503	0.00000	-0.000017535	0.00051306	1
IC4	1.0000	1.00000	-0.0025214	-0.25214	1.3658	0.00049868	1
IC2	0.0020000	0.0000000	-0.00025636	-12.818	0.0024416	0.00014238	1
IC3	0.50000	0.50000	0.0027844	0.55688	0.68841	0.00098093	1



Element Name:	Co
Element Wavelength:	Co 228.616 nm
Concentration Units:	ppm
Date of Calibration:	5/1/2014 10:41:07AM
Date of Fit:	5/1/2014 10:41:07AM
Type of Fit:	Linear
Correlation:	0.99998
A0 (Offset):	0.0021387
A1 (Gain):	4.1057
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

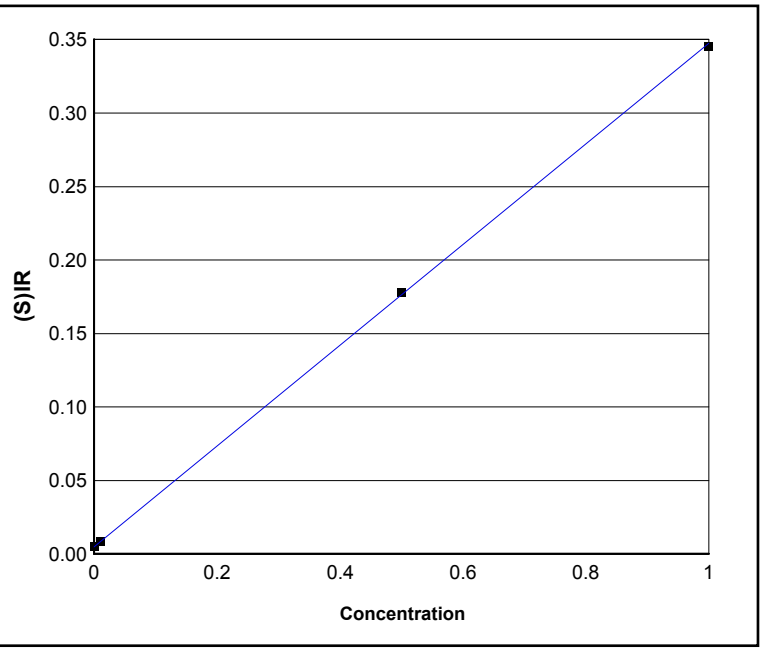
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.0000000000	0.0000004732	0.00000	0.0021406	0.0027943	1
IC4	1.0000	1.0000	0.0010749	0.10749	4.1108	0.0019233	1
IC2	0.0040000	0.0000000	-0.00047271	-11.818	0.016575	0.00010072	1
IC3	0.50000	0.50000	-0.00060330	-0.12066	2.0518	0.0046084	1



Element Name:	Cr
Element Wavelength:	Cr 267.716 nm
Concentration Units:	ppm
Date of Calibration:	5/1/2014 10:41:07AM
Date of Fit:	5/1/2014 10:41:07AM
Type of Fit:	Linear
Correlation:	0.99992
A0 (Offset):	0.00014040
A1 (Gain):	0.18560
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

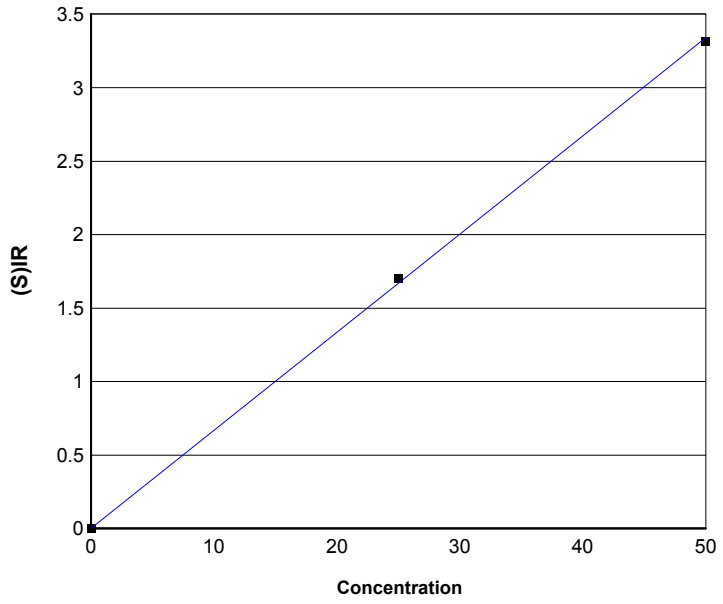
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.0000000000	0.0000002667	0.00000	0.00014044	0.000029675	1
IC4	1.0000	0.99000	-0.0083095	-0.83095	0.18421	0.00017178	1
IC2	0.0040000	0.0000000	-0.00030239	-7.5597	0.00082672	0.000019358	1
IC3	0.50000	0.51000	0.0086118	1.7224	0.094546	0.00012918	1



Element Name:	Cu
Element Wavelength:	Cu 324.754 nm
Concentration Units:	ppm
Date of Calibration:	5/1/2014 10:41:07AM
Date of Fit:	5/1/2014 10:41:07AM
Type of Fit:	Linear
Correlation:	0.99996
A0 (Offset):	0.0047548
A1 (Gain):	0.34287
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

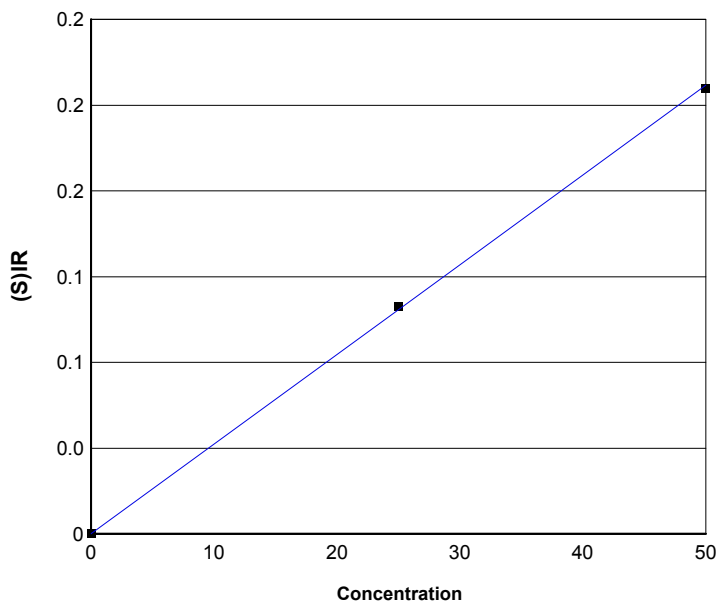
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.0000000000	-0.0000006647	0.00000	0.0047546	0.000053528	1
IC4	1.0000	0.99000	-0.0056597	-0.56597	0.34554	0.0012707	1
IC2	0.010000	0.010000	0.00062052	6.2052	0.0083956	0.00013268	1
IC3	0.50000	0.51000	0.0050390	1.0078	0.17784	0.00010667	1



Element Name:	Fe
Element Wavelength:	Fe 259.940 nm
Concentration Units:	ppm
Date of Calibration:	5/1/2014 10:41:07AM
Date of Fit:	5/1/2014 10:41:07AM
Type of Fit:	Linear
Correlation:	0.99991
A0 (Offset):	0.00011050
A1 (Gain):	0.066820
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

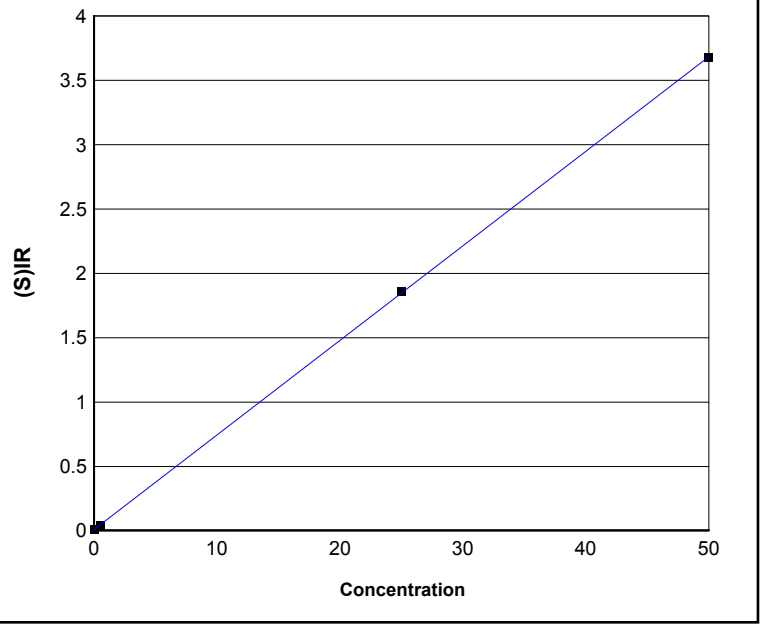
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.0000000000	-0.0000015151	0.00000	0.00011040	0.00041043	1
IC4	50.000	49.540	-0.46236	-0.92472	3.3102	0.019908	1
IC2	0.050000	0.050000	0.0010549	2.1097	0.0035220	0.000043204	1
IC3	25.000	25.460	0.46130	1.8452	1.7014	0.0074033	1



Element Name:	Fe
Element Wavelength:	Fe 271.441 nm
Concentration Units:	ppm
Date of Calibration:	5/1/2014 10:41:07AM
Date of Fit:	5/1/2014 10:41:07AM
Type of Fit:	Linear
Correlation:	0.99994
A0 (Offset):	0.000051941
A1 (Gain):	0.0041850
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

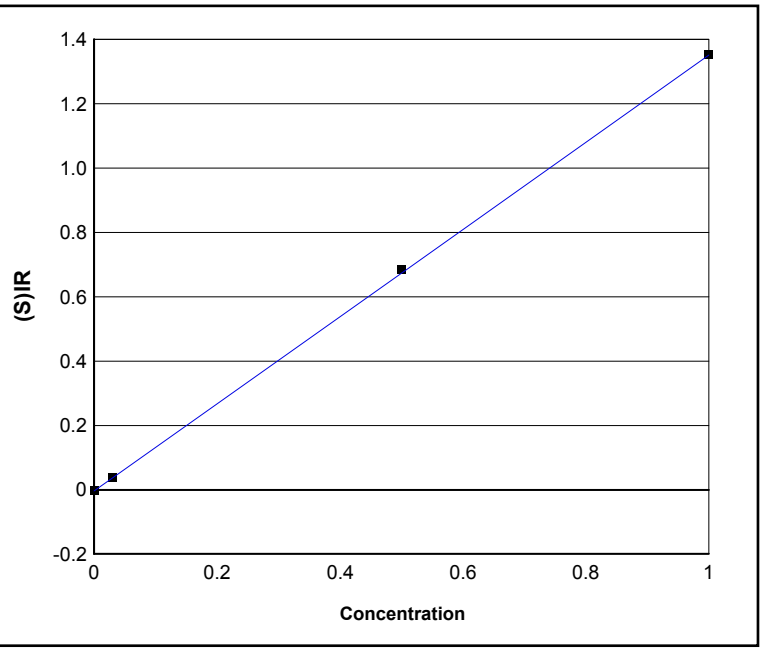
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.0000000000	0.0000099256	0.00000	0.000051982	0.00028410	1
IC4	50.000	49.660	-0.33597	-0.67194	0.20790	0.0010836	1
IC2	0.050000	0.040000	-0.010282	-20.564	0.00021816	0.00025756	1
IC3	25.000	25.350	0.34625	1.3850	0.10613	0.0013150	1



Element Name:	K
Element Wavelength:	K 766.490 nm
Concentration Units:	ppm
Date of Calibration:	5/1/2014 10:41:07AM
Date of Fit:	5/1/2014 10:41:07AM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	0.0077407
A1 (Gain):	0.073562
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

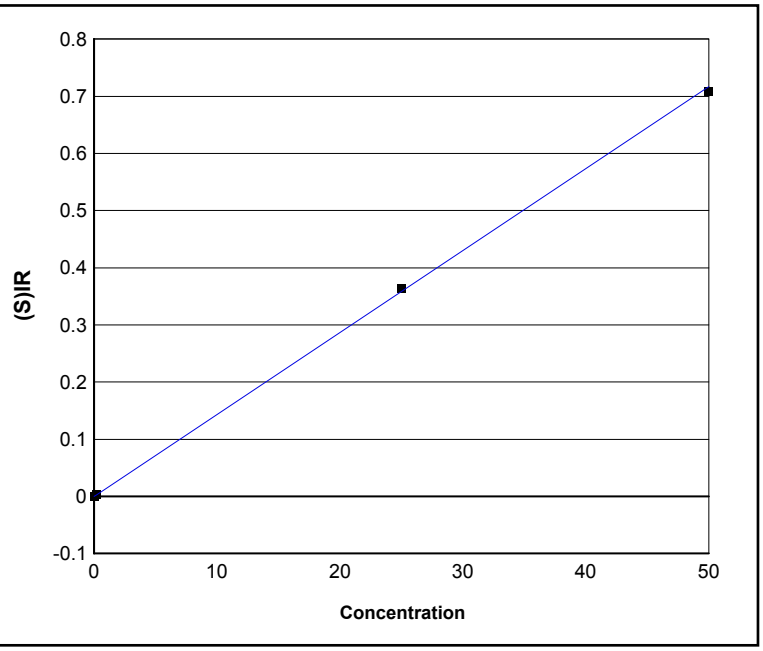
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.0000000000	-0.0000018988	0.00000	0.0077405	0.0030924	1
IC4	50.000	49.870	-0.13227	-0.26453	3.6761	0.019474	1
IC2	0.50000	0.50000	0.00058785	0.11757	0.044565	0.0024753	1
IC3	25.000	25.130	0.13168	0.52672	1.8565	0.013515	1



Element Name:	Li
Element Wavelength:	Li 670.784 nm
Concentration Units:	ppm
Date of Calibration:	5/1/2014 10:41:07AM
Date of Fit:	5/1/2014 10:41:07AM
Type of Fit:	Linear
Correlation:	0.99996
A0 (Offset):	-0.0039689
A1 (Gain):	1.3559
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

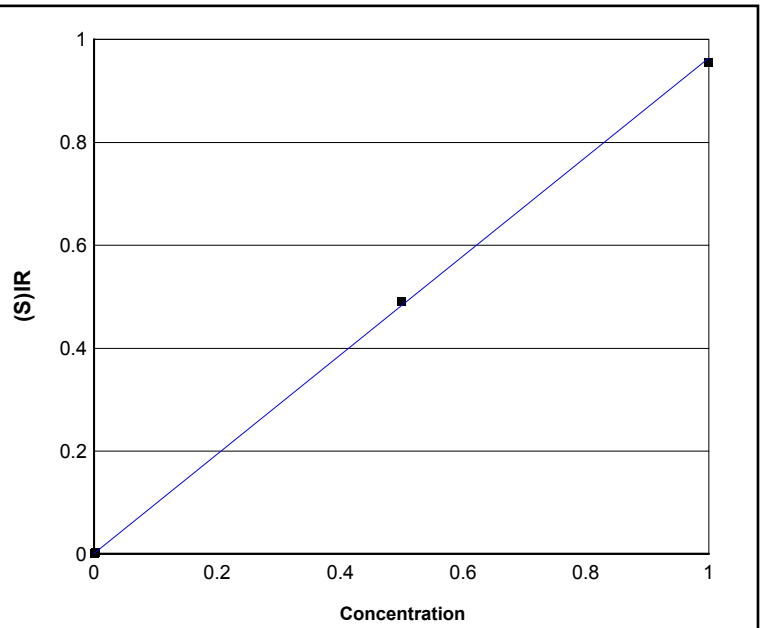
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.0000000000	-0.0000010787	0.00000	-0.0039704	0.0026616	1
IC2	0.030000	0.030000	0.00096494	3.2165	0.038098	0.00033461	1
IC3	0.50000	0.50000	0.0047533	0.95066	0.68453	0.0013377	1
IC4	1.0000	0.99000	-0.0057143	-0.57143	1.3524	0.013938	1



Element Name:	Mg
Element Wavelength:	Mg 279.079 nm
Concentration Units:	ppm
Date of Calibration:	5/1/2014 10:41:07AM
Date of Fit:	5/1/2014 10:41:07AM
Type of Fit:	Linear
Correlation:	0.99992
A0 (Offset):	-0.000095763
A1 (Gain):	0.014340
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

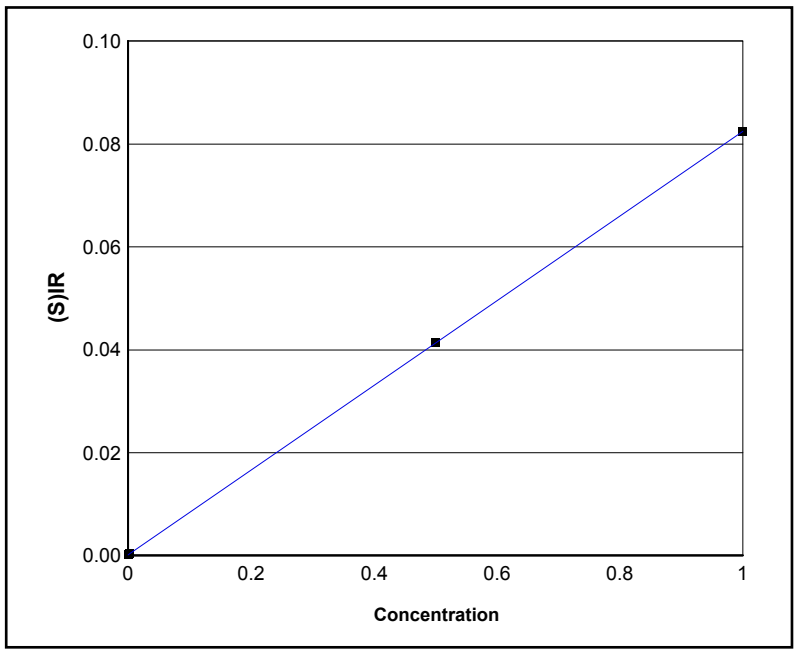
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.0000000000	-0.0000016229	0.00000	-0.000095786	0.000061948	1
IC4	50.000	49.560	-0.44209	-0.88419	0.70930	0.00094533	1
IC2	0.20000	0.20000	-0.00014669	-0.073344	0.0027672	0.000047944	1
IC3	25.000	25.440	0.44224	1.7690	0.36411	0.000059412	1



Element Name:	Mn
Element Wavelength:	Mn 257.610 nm
Concentration Units:	ppm
Date of Calibration:	5/1/2014 10:41:07AM
Date of Fit:	5/1/2014 10:41:07AM
Type of Fit:	Linear
Correlation:	0.99991
A0 (Offset):	0.00091821
A1 (Gain):	0.96334
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

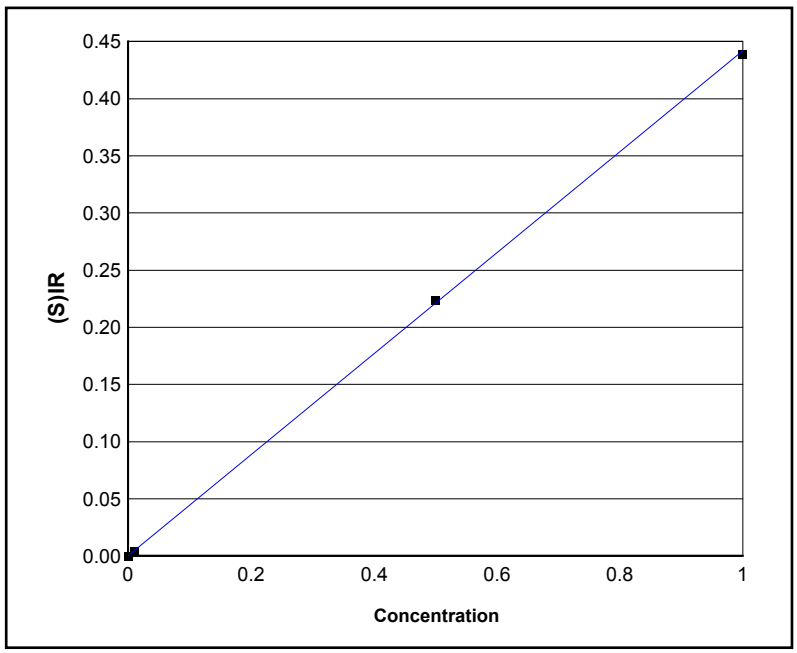
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.0000000000	-0.0000000438	0.00000	0.00091817	0.000047499	1
IC4	1.0000	0.99000	-0.0093125	-0.93125	0.95522	0.0049867	1
IC2	0.0030000	0.0000000	0.000015955	0.53182	0.0038233	0.0000027381	1
IC3	0.50000	0.51000	0.0092965	1.8593	0.49151	0.00095794	1



Element Name:	Mn
Element Wavelength:	Mn 257.610 nm
Concentration Units:	ppm
Date of Calibration:	5/1/2014 10:41:07AM
Date of Fit:	5/1/2014 10:41:07AM
Type of Fit:	Linear
Correlation:	0.99995
A0 (Offset):	0.00014385
A1 (Gain):	0.082302
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

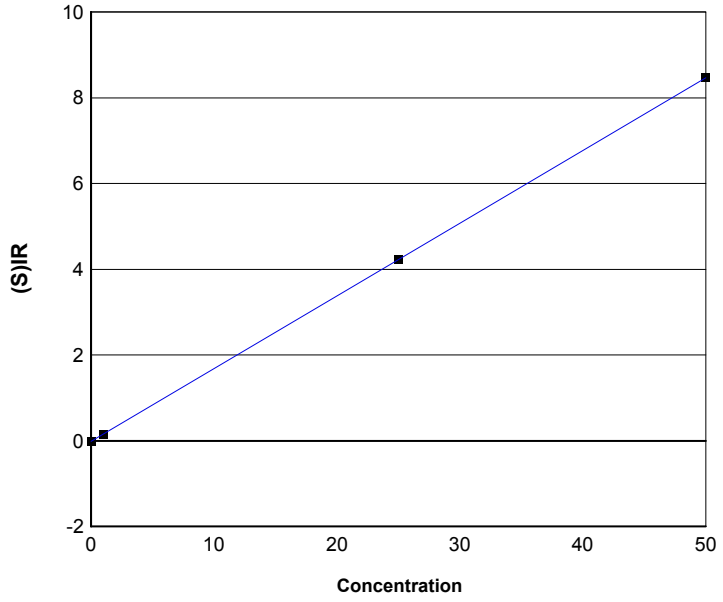
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.0000000000	0.0000006590	0.00000	0.00014391	0.000051238	1
IC4	1.0000	1.0000	0.000078021	0.0078021	0.082453	0.00018826	1
IC2	0.0030000	0.0000000	-0.00066279	-22.093	0.00033621	0.000053599	1
IC3	0.50000	0.50000	0.00058477	0.11695	0.041343	0.00020222	1



Element Name:	Mo
Element Wavelength:	Mo 202.030 nm
Concentration Units:	ppm
Date of Calibration:	5/1/2014 10:41:07AM
Date of Fit:	5/1/2014 10:41:07AM
Type of Fit:	Linear
Correlation:	0.99996
A0 (Offset):	0.000032048
A1 (Gain):	0.44178
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

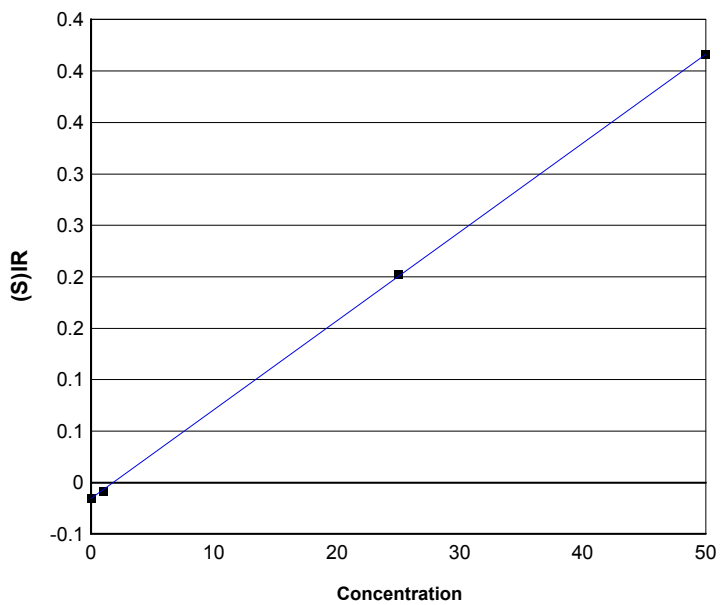
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.0000000000	0.0000002041	0.00000	0.000032138	0.00017931	1
IC4	1.0000	0.99000	-0.0058622	-0.58622	0.43911	0.00053798	1
IC2	0.010000	0.0100000	-0.00026804	-2.6804	0.0043309	0.0000060654	1
IC3	0.50000	0.51000	0.0061303	1.2261	0.22358	0.00023787	1



Element Name:	Na
Element Wavelength:	Na 589.592 nm
Concentration Units:	ppm
Date of Calibration:	5/1/2014 10:41:07AM
Date of Fit:	5/1/2014 10:41:07AM
Type of Fit:	Linear
Correlation:	1.00000
A0 (Offset):	-0.010821
A1 (Gain):	0.16965
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

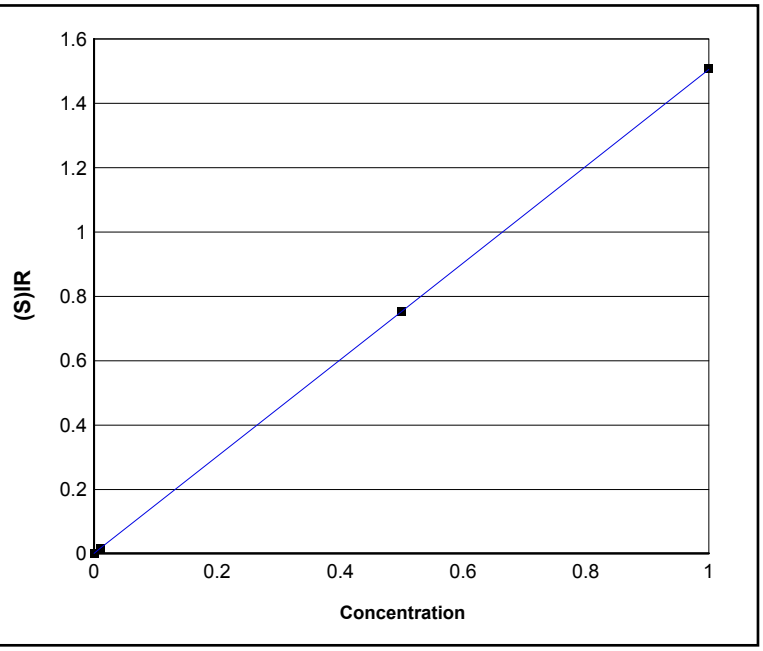
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.000000000	-0.000010924	0.00000	-0.010823	0.00050759	1
IC4	50.000	49.980	-0.019528	-0.039056	8.4683	0.047963	1
IC2	1.0000	1.0100	0.010972	1.0972	0.16069	0.0012215	1
IC3	25.000	25.010	0.0085554	0.034222	4.2319	0.015436	1



Element Name:	Na
Element Wavelength:	Na 818.326 nm
Concentration Units:	ppm
Date of Calibration:	5/1/2014 10:41:07AM
Date of Fit:	5/1/2014 10:41:07AM
Type of Fit:	Linear
Correlation:	0.99968
A0 (Offset):	-0.015416
A1 (Gain):	0.0086370
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

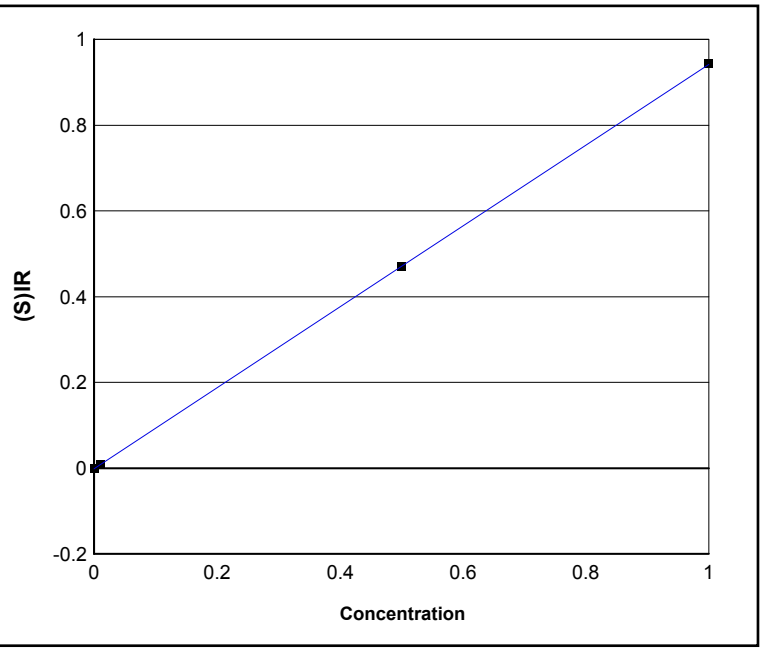
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.00000000	0.00020728	0.00000	-0.015415	0.00039886	1
IC4	50.000	49.980	-0.018020	-0.036040	0.41628	0.0039530	1
IC2	1.0000	0.78000	-0.21629	-21.629	-0.0086476	0.0012957	1
IC3	25.000	25.230	0.23431	0.93724	0.20253	0.00015132	1



Element Name:	Ni
Element Wavelength:	Ni 231.604 nm
Concentration Units:	ppm
Date of Calibration:	5/1/2014 10:41:07AM
Date of Fit:	5/1/2014 10:41:07AM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	0.00065475
A1 (Gain):	1.5048
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

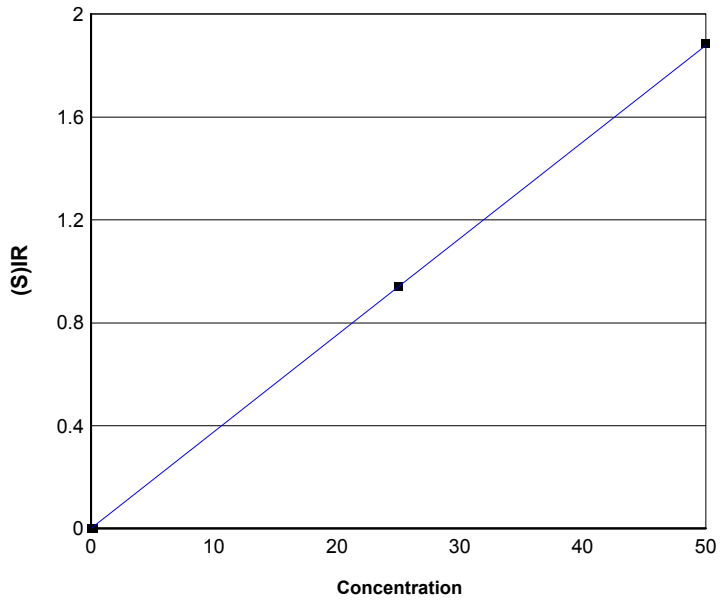
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.0000000000	0.0000005707	0.00000	0.00065561	0.00080604	1
IC4	1.0000	1.0000	0.0017236	0.17236	1.5087	0.0019790	1
IC2	0.010000	0.0100000	-0.00056477	-5.6477	0.014849	0.00039432	1
IC3	0.50000	0.50000	-0.0011592	-0.23184	0.75165	0.0014481	1



Element Name:	Pb
Element Wavelength:	Pb 220.353 nm
Concentration Units:	ppm
Date of Calibration:	5/1/2014 10:41:08AM
Date of Fit:	5/1/2014 10:41:08AM
Type of Fit:	Linear
Correlation:	1.00000
A0 (Offset):	-0.00096384
A1 (Gain):	0.94332
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

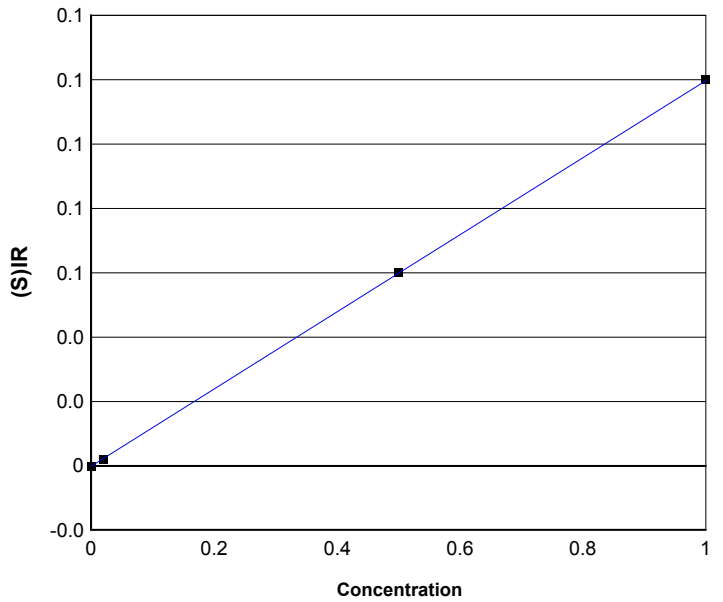
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.0000000000	0.0000000275	0.00000	-0.00096381	0.00054564	1
IC4	1.0000	1.0000	0.00045428	0.045428	0.94488	0.0015602	1
IC2	0.010000	0.0100000	-0.000023425	-0.23425	0.0084664	0.0018579	1
IC3	0.50000	0.50000	-0.00043086	-0.086172	0.47134	0.0010063	1



Element Name:	S
Element Wavelength:	S 182.034 nm
Concentration Units:	ppm
Date of Calibration:	5/1/2014 10:41:08AM
Date of Fit:	5/1/2014 10:41:08AM
Type of Fit:	Linear
Correlation:	0.99837
A0 (Offset):	0.0010134
A1 (Gain):	0.037562
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

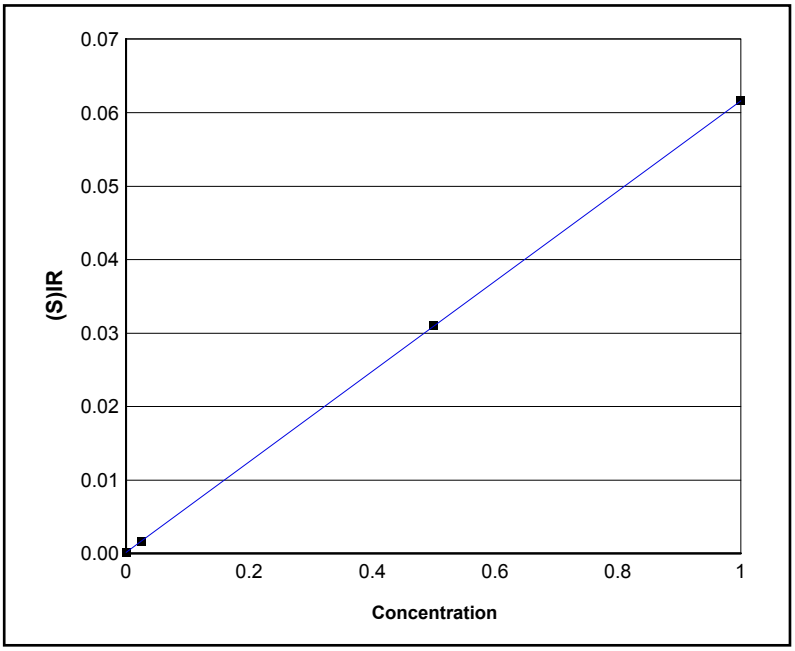
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.00000000	0.00022038	0.00000	0.0010217	0.00071821	1
IC2	0.20000	-0.020000	-0.22146	-110.73	0.00020778	0.000026604	1
IC3	25.000	25.050	0.046826	0.18730	0.94190	0.0013436	1
IC4	50.000	50.170	0.17463	0.34926	1.8858	0.00047599	1



Element Name:	Sb
Element Wavelength:	Sb 206.833 nm
Concentration Units:	ppm
Date of Calibration:	5/1/2014 10:41:08AM
Date of Fit:	5/1/2014 10:41:08AM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	-0.00025146
A1 (Gain):	0.12003
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

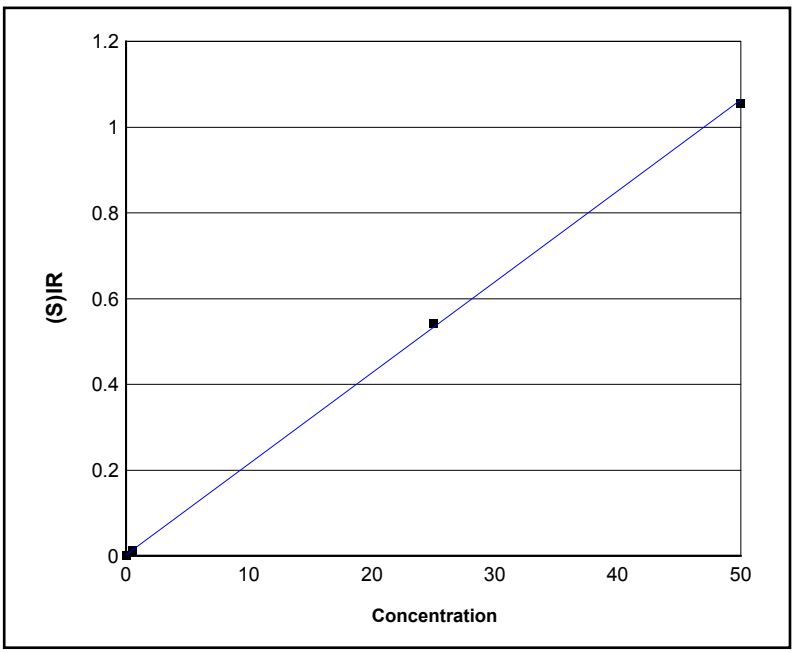
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.0000000000	0.0000007870	0.00000	-0.00025137	0.00026417	1
IC4	1.0000	1.0000	0.00025027	0.025027	0.12004	0.00013012	1
IC2	0.020000	0.020000	-0.00081448	-4.0724	0.0020522	0.00010632	1
IC3	0.50000	0.50000	0.00056293	0.11259	0.059947	0.000035073	1



Element Name:	Se
Element Wavelength:	Se 196.090 nm
Concentration Units:	ppm
Date of Calibration:	5/1/2014 10:41:08AM
Date of Fit:	5/1/2014 10:41:08AM
Type of Fit:	Linear
Correlation:	0.99998
A0 (Offset):	0.00018411
A1 (Gain):	0.061414
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

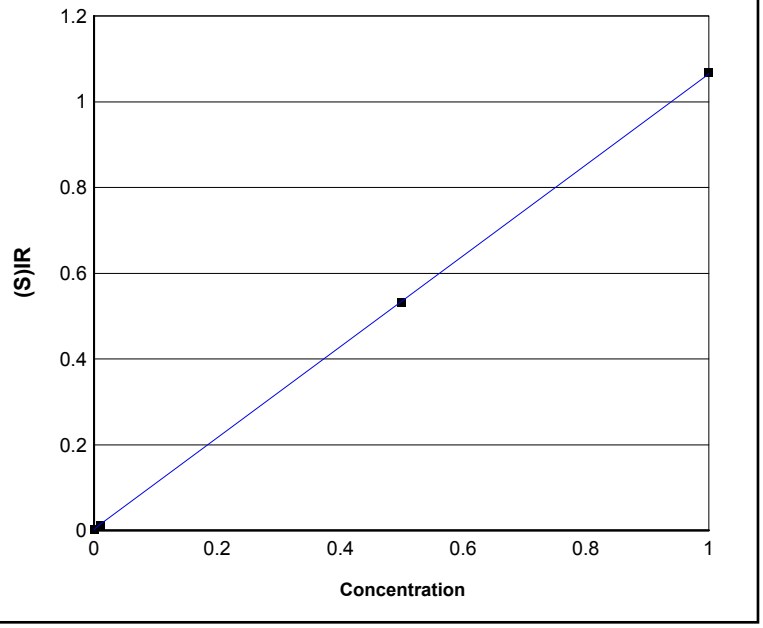
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.0000000000	0.0000010463	0.00000	0.00018418	0.00014447	1
IC4	1.0000	1.0000	0.00033798	0.033798	0.061689	0.00026705	1
IC2	0.025000	0.020000	-0.0010925	-4.3699	0.0016531	0.000024210	1
IC3	0.50000	0.50000	0.00075373	0.15075	0.030972	0.00025614	1



Element Name:	Si
Element Wavelength:	Si 288.158 nm
Concentration Units:	ppm
Date of Calibration:	5/1/2014 10:41:08AM
Date of Fit:	5/1/2014 10:41:08AM
Type of Fit:	Linear
Correlation:	0.99990
A0 (Offset):	0.0020663
A1 (Gain):	0.021242
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

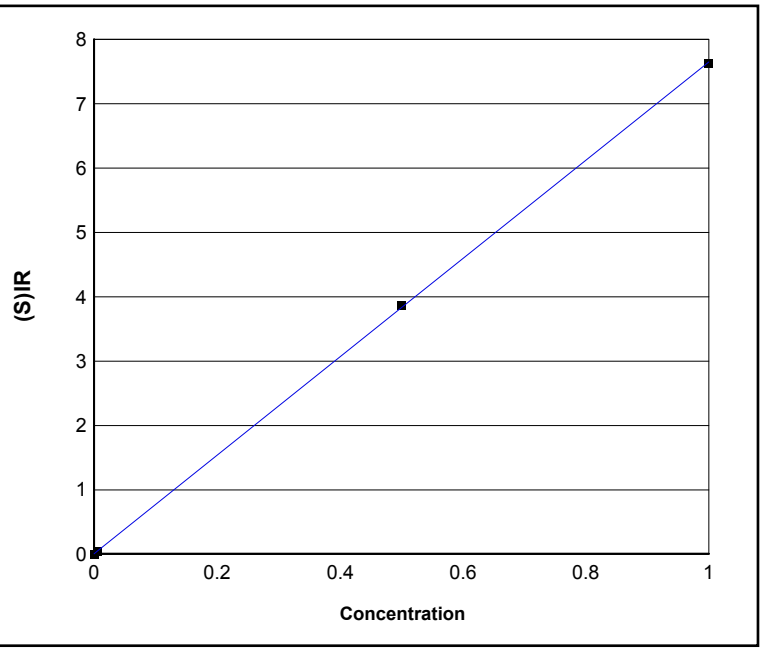
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.000000000	0.000036298	0.00000	0.0020670	0.00011913	1
IC2	0.50000	0.46000	-0.041237	-8.2473	0.011814	0.00016556	1
IC3	25.000	25.450	0.45268	1.8107	0.54297	0.0028293	1
IC4	50.000	49.590	-0.41145	-0.82291	1.0559	0.0066269	1



Element Name:	Sn
Element Wavelength:	Sn 189.989 nm
Concentration Units:	ppm
Date of Calibration:	5/1/2014 10:41:08AM
Date of Fit:	5/1/2014 10:41:08AM
Type of Fit:	Linear
Correlation:	0.99994
A0 (Offset):	0.0030638
A1 (Gain):	1.0626
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

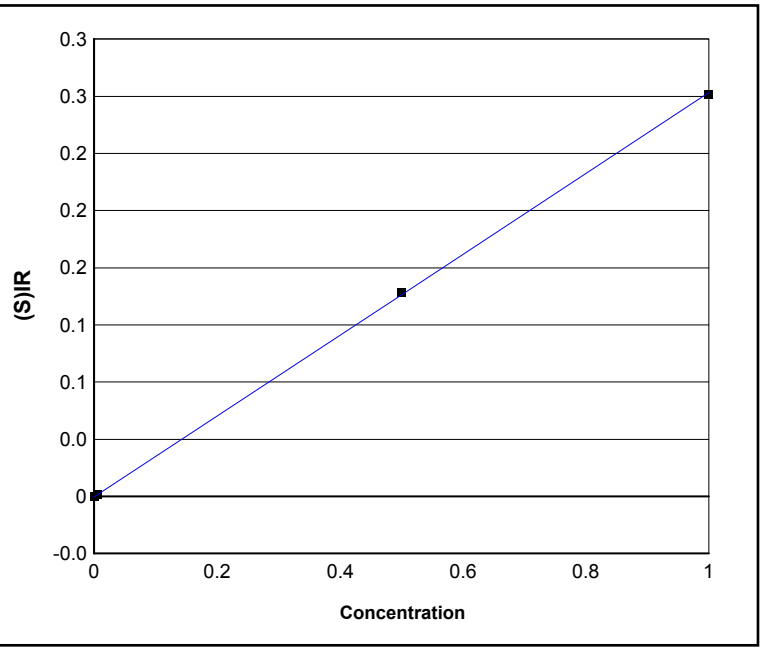
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.0000000000	0.0000013120	0.00000	0.0030652	0.00010811	1
IC4	1.0000	1.0000	0.0030033	0.30033	1.0683	0.0011692	1
IC2	0.010000	0.0100000	-0.0013081	-13.081	0.012297	0.00019249	1
IC3	0.50000	0.50000	-0.0016948	-0.33897	0.53231	0.0011109	1



Element Name:	Sr
Element Wavelength:	Sr 407.771 nm
Concentration Units:	ppm
Date of Calibration:	5/1/2014 10:41:08AM
Date of Fit:	5/1/2014 10:41:08AM
Type of Fit:	Linear
Correlation:	0.99998
A0 (Offset):	0.00029701
A1 (Gain):	7.6546
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

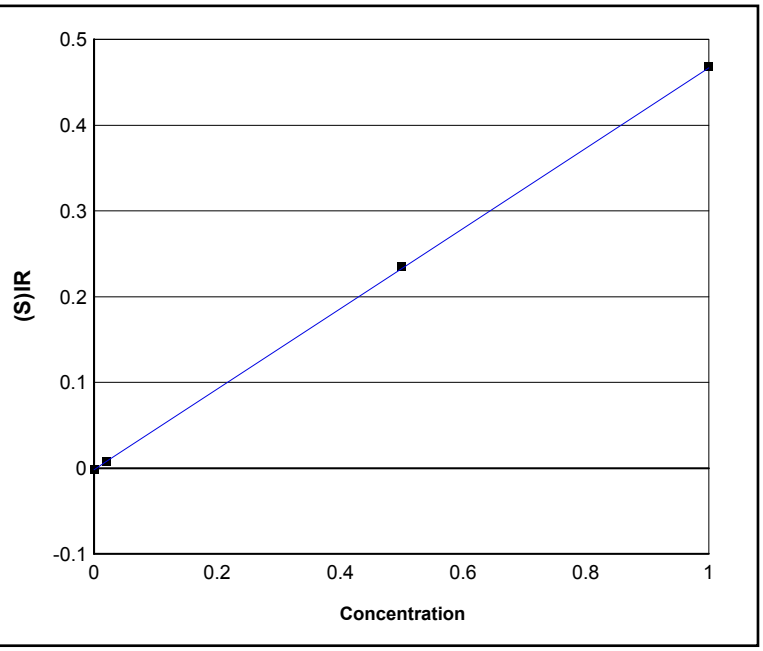
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.0000000000	-0.0000000432	0.00000	0.00029668	0.00017446	1
IC2	0.0050000	0.0100000	0.000019983	0.39967	0.038723	0.00085011	1
IC3	0.50000	0.50000	0.0046639	0.93279	3.8633	0.014597	1
IC4	1.0000	1.00000	-0.0046839	-0.46839	7.6190	0.042358	1



Element Name:	Ti
Element Wavelength:	Ti 334.904 nm
Concentration Units:	ppm
Date of Calibration:	5/1/2014 10:41:08AM
Date of Fit:	5/1/2014 10:41:08AM
Type of Fit:	Linear
Correlation:	0.99995
A0 (Offset):	-0.00030297
A1 (Gain):	0.28292
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

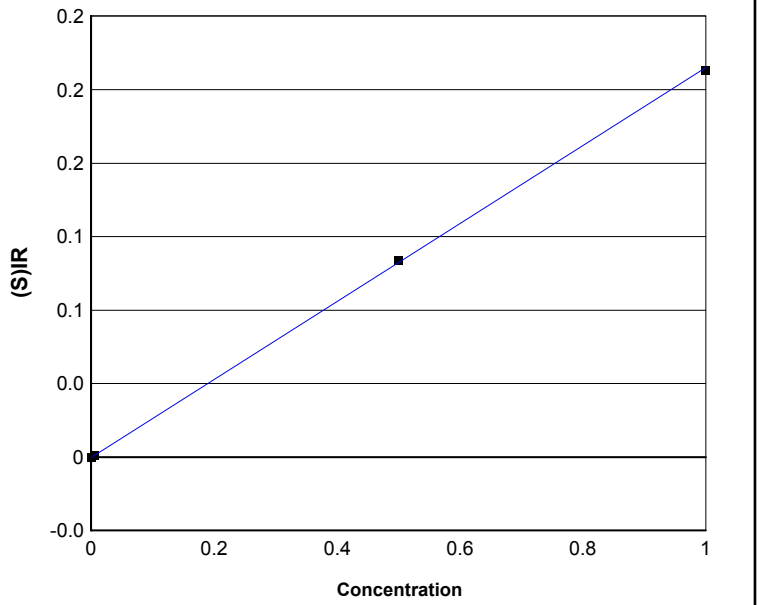
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.0000000000	0.0000002327	0.00000	-0.00030290	0.00013689	1
IC4	1.0000	0.99000	-0.0063245	-0.63245	0.28089	0.00094063	1
IC2	0.0050000	0.0000000	-0.00026699	-5.3399	0.0010363	0.000044533	1
IC3	0.50000	0.51000	0.0065915	1.3183	0.14305	0.00047947	1



Element Name:	Tl
Element Wavelength:	Tl 190.856 nm
Concentration Units:	ppm
Date of Calibration:	5/1/2014 10:41:08AM
Date of Fit:	5/1/2014 10:41:08AM
Type of Fit:	Linear
Correlation:	0.99997
A0 (Offset):	-0.0015283
A1 (Gain):	0.46880
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

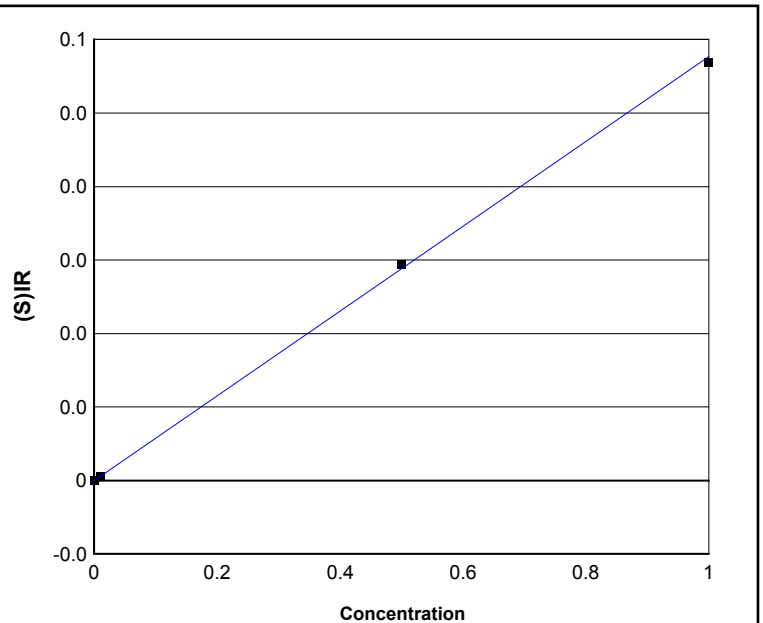
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.0000000000	0.0000009809	0.00000	-0.0015279	0.00047402	1
IC4	1.0000	1.00000	-0.0019629	-0.19629	0.46798	0.00055496	1
IC2	0.020000	0.020000	-0.0010626	-5.3128	0.0073559	0.000087811	1
IC3	0.50000	0.50000	0.0030225	0.60450	0.23510	0.00038647	1



Element Name:	V
Element Wavelength:	V 292.402 nm
Concentration Units:	ppm
Date of Calibration:	5/1/2014 10:41:08AM
Date of Fit:	5/1/2014 10:41:08AM
Type of Fit:	Linear
Correlation:	0.99996
A0 (Offset):	-0.00018751
A1 (Gain):	0.21234
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
IC1	0.00000	0.0000000000	-0.0000000955	0.00000	-0.00018753	0.000054181	1
IC4	1.0000	0.99000	-0.0059773	-0.59773	0.21033	0.000045463	1
IC2	0.0050000	0.0100000	0.000066240	1.3248	0.00087905	0.00015294	1
IC3	0.50000	0.51000	0.0059115	1.1823	0.10696	0.00021145	1



Element Name:	Zn
Element Wavelength:	Zn 206.200 nm
Concentration Units:	ppm
Date of Calibration:	5/1/2014 10:41:08AM
Date of Fit:	5/1/2014 10:41:08AM
Type of Fit:	Linear
Correlation:	0.99986
A0 (Offset):	-0.000026068
A1 (Gain):	0.057708
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
IC1	0.00000	0.0000000000	-0.0000007448	0.00000	-0.000026111	0.000034025	1
IC4	1.0000	0.99000	-0.011822	-1.1822	0.056882	0.000099629	1
IC2	0.010000	0.010000	0.00063941	6.3941	0.00058744	0.0000033782	1
IC3	0.50000	0.51000	0.011182	2.2364	0.029414	0.000071214	1

Sample Name: IC1 Acquired: 5/1/2014 10:30:21 Type: Cal
Method: ICAP 2 March 2014(v59) 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	**-.00020**	**.00142**	**.00026**	**.00094**	**.00503**	**.00176**	**.00098**	**.00665**	**-.00002**	**.00214**	**.00014**	**.00475**
Stddev	.00005	.00008	.00013	.00019	.00013	.00007	.00041	.00011	.00051	.00279	.00003	.00005
%RSD	25.969	5.3671	49.078	20.655	2.6514	4.0716	41.544	1.7115	2926.0	130.54	21.129	1.1258
#1	-.00017	.00137	.00035	.00107	.00513	.00181	.00069	.00657	.00035	.00412	.00012	.00472
#2	-.00024	.00147	.00017	.00080	.00494	.00171	.00126	.00673	-.00038	.00016	.00016	.00479

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	**.00011**	**.00005**	**.00774**	**-.00397**	**-.00010**	**.00092**	**.00014**	**.00003**	**-.01082**	**-.01541**	**.00066**	**-.00096**
Stddev	.00041	.00028	.00309	.00266	.00006	.00005	.00005	.00018	.00051	.00040	.00081	.00055
%RSD	371.76	546.54	39.951	67.037	64.673	5.1732	35.605	557.94	4.6898	2.5875	122.95	56.613
#1	-.00018	-.00015	.00555	-.00585	-.00014	.00095	.00018	.00016	-.01118	-.01513	.00123	-.00135
#2	.00040	.00025	.00993	-.00209	-.00005	.00088	.00011	-.00009	-.01046	-.01570	.00009	-.00058

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	**.00102**	**-.00025**	**.00018**	**.00207**	**.00307**	**.00030**	**-.00030**	**-.00153**	**-.00019**	**-.00003**
Stddev	.00072	.00026	.00014	.00012	.00011	.00017	.00014	.00047	.00005	.00003
%RSD	70.299	105.09	78.439	5.7632	3.5270	58.803	45.194	31.025	28.892	130.31
#1	.00153	-.00006	.00008	.00198	.00299	.00042	-.00021	-.00119	-.00015	-.00005
#2	.00051	-.00044	.00029	.00215	.00314	.00017	-.00040	-.00186	-.00023	.00000

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1017.5**	**4596.5**	**38052.**	**5898.9**
Stddev	2.7	17.9	36.	46.7
%RSD	.27022	.38931	.09438	.79248
#1	1015.5	4583.9	38027.	5932.0
#2	1019.4	4609.2	38078.	5865.9

Sample Name: IC2 Acquired: 5/1/2014 10:33:10 Type: Cal
Method: ICAP 2 March 2014(v59) 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	**.00155**	**.00477**	**.00142**	**.00776**	**.01786**	**.03306**	**.00896**	**.06746**	**.00244**	**.01657**	**.00083**	**.00840**
Stddev	.00014	.00041	.00010	.00002	.00008	.00039	.00013	.00013	.00014	.00010	.00002	.00013
%RSD	9.1644	8.5257	6.8140	.30336	.45196	1.1712	1.4200	.18982	5.8314	.60769	2.3415	1.5804
#1	.00165	.00448	.00149	.00778	.01780	.03333	.00887	.06755	.00234	.01665	.00084	.00830
#2	.00145	.00506	.00135	.00775	.01791	.03278	.00905	.06737	.00254	.01650	.00081	.00849

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	**.00352**	**.00022**	**.04456**	**.03810**	**.00277**	**.00382**	**.00034**	**.00433**	**.16069**	**-.00865**	**.01485**	**.00847**
Stddev	.00004	.00026	.00248	.00033	.00005	.00000	.00005	.00001	.00122	.00130	.00039	.00186
%RSD	1.2267	118.06	5.5544	.87830	1.7326	.07162	15.942	.14005	.76015	14.984	2.6556	21.944
#1	.00355	.00040	.04632	.03833	.00280	.00383	.00030	.00434	.16155	-.00956	.01457	.00978
#2	.00349	.00004	.04281	.03786	.00273	.00382	.00037	.00433	.15983	-.00773	.01513	.00715

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	**.00021**	**.00205**	**.00165**	**.01181**	**.01230**	**.03872**	**.00104**	**.00736**	**.00088**	**.00059**
Stddev	.00003	.00011	.00002	.00017	.00019	.00085	.00004	.00009	.00015	.00000
%RSD	12.804	5.1808	1.4646	1.4014	1.5653	2.1954	4.2971	1.1937	17.398	.57506
#1	.00019	.00198	.00167	.01193	.01216	.03932	.00100	.00742	.00077	.00059
#2	.00023	.00213	.00164	.01170	.01243	.03812	.00107	.00729	.00099	.00059

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1024.7**	**4641.6**	**38454.**	**6004.0**
Stddev	4.7	16.4	136.	11.7
%RSD	.45819	.35279	.35477	.19564
#1	1028.0	4653.2	38551.	5995.7
#2	1021.4	4630.1	38358.	6012.3

Sample Name: IC3 Acquired: 5/1/2014 10:35:58 Type: Cal
Method: ICAP 2 March 2014(v59) 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	**.13006**	**.37837**	**.04452**	**.17755**	**3.1309**	**7.3873**	**2.0157**	**3.0683**	**.68841**	**2.0518**	**.09455**	**.17784**
Stddev	.00064	.00031	.00016	.00023	.0138	.0466	.0064	.0090	.00098	.0046	.00013	.00011
%RSD	.49536	.08290	.35893	.12788	.44051	.63016	.31959	.29390	.14249	.22461	.13663	.05998
#1	.13052	.37859	.04463	.17771	3.1212	7.3544	2.0111	3.0619	.68910	2.0550	.09446	.17777
#2	.12961	.37815	.04440	.17739	3.1407	7.4203	2.0202	3.0747	.68771	2.0485	.09464	.17792

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	**1.7014**	**.10613**	**1.8565**	**.68453**	**.36411**	**.49151**	**.04134**	**.22358**	**4.2319**	**.20253**	**.75165**	**.47134**
Stddev	.0074	.00131	.0135	.00134	.00006	.00096	.00020	.00024	.0154	.00015	.00145	.00101
%RSD	.43512	1.2390	.72802	.19542	.01632	.19490	.48912	.10639	.36475	.07471	.19265	.21350
#1	1.6962	.10706	1.8469	.68359	.36407	.49219	.04120	.22374	4.2210	.20242	.75268	.47205
#2	1.7067	.10520	1.8660	.68548	.36416	.49083	.04149	.22341	4.2428	.20264	.75063	.47062

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	**.94190**	**.05995**	**.03097**	**.54297**	**.53231**	**3.8633**	**.14305**	**.23510**	**.10696**	**.02941**
Stddev	.00134	.00004	.00026	.00283	.00111	.0146	.00048	.00039	.00021	.00007
%RSD	.14265	.05851	.82700	.52107	.20870	.37783	.33517	.16438	.19769	.24210
#1	.94285	.05997	.03115	.54097	.53309	3.8530	.14271	.23537	.10711	.02936
#2	.94095	.05992	.03079	.54497	.53152	3.8736	.14339	.23483	.10681	.02946

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**929.83**	**4514.9**	**36506.**	**5797.9**
Stddev	2.08	8.7	5.	6.0
%RSD	.22400	.19295	.01278	.10303
#1	928.36	4508.7	36509.	5802.1
#2	931.30	4521.0	36503.	5793.7

Sample Name: IC4 Acquired: 5/1/2014 10:38:36 Type: Cal
Method: ICAP 2 March 2014(v59) 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	.25872	.74392	.08840	.35034	6.2191	14.401	3.9304	5.9895	1.3658	4.1108	.18421	.34554
Stddev	.00012	.00604	.00006	.00032	.0297	.056	.0388	.0498	.0005	.0019	.00017	.00127
%RSD	.04813	.81131	.07231	.09107	.47727	.38981	.98703	.83123	.03651	.04679	.09325	.36775
#1	.25881	.74818	.08835	.35056	6.2401	14.441	3.9579	6.0247	1.3654	4.1122	.18433	.34644
#2	.25863	.73965	.08844	.35011	6.1981	14.361	3.9030	5.9543	1.3661	4.1094	.18409	.34464

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	3.3102	.20790	3.6761	1.3524	.70930	.95522	.08245	.43911	8.4683	.41628	1.5087	.94488
Stddev	.0199	.00108	.0195	.0139	.00095	.00499	.00019	.00054	.0480	.00395	.0020	.00156
%RSD	.60140	.52121	.52974	1.0306	.13328	.52204	.22833	.12252	.56638	.94960	.13117	.16512
#1	3.3243	.20866	3.6899	1.3623	.70997	.95170	.08232	.43873	8.5023	.41907	1.5101	.94377
#2	3.2961	.20713	3.6623	1.3425	.70863	.95875	.08259	.43949	8.4344	.41348	1.5073	.94598

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	1.8858	.12004	.06169	1.0559	1.0683	7.6190	.28089	.46798	.21033	.05688
Stddev	.0005	.00013	.00027	.0066	.0012	.0424	.00094	.00055	.00005	.00010
%RSD	.02524	.10840	.43290	.62760	.10944	.55595	.33487	.11859	.02161	.17515
#1	1.8855	.12013	.06150	1.0606	1.0675	7.6490	.28156	.46758	.21036	.05681
#2	1.8862	.11995	.06188	1.0512	1.0692	7.5891	.28023	.46837	.21030	.05695

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	893.77	4484.1	36503.	5920.8
Stddev	1.04	9.4	39.	52.1
%RSD	.11600	.21001	.10745	.88049
#1	894.51	4490.8	36476.	5883.9
#2	893.04	4477.4	36531.	5957.7

Sample Name: icv-2039079 Acquired: 5/1/2014 10:41:12 Type: QC
Method: ICAP 2 March 2014(v59) 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	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.37060	19.123	.38093	.37859	.38716	.37779	18.800	.37427	.36842	.37901	.37816	18.919	18.707
Stddev	.00148	.023	.00408	.00046	.00051	.00188	.092	.00130	.00014	.00002	.00113	.033	.087
%RSD	.39904	.11941	1.0707	.12192	.13105	.49739	.48748	.34824	.03745	.00510	.29848	.17264	.46308
#1	.36955	19.106	.38381	.37891	.38681	.37646	18.735	.37519	.36832	.37899	.37736	18.896	18.768
#2	.37164	19.139	.37805	.37826	.38752	.37912	18.865	.37335	.36852	.37902	.37895	18.943	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	Chk Pass
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	.37995	19.000	.38539	.38000	18.602	.36945	.36964	18.140	.37916	.37451	19.049	.36209	.37693
Stddev	.00197	.011	.00118	.00125	.003	.00031	.00019	.056	.00449	.00184	.183	.00042	.00139
%RSD	.51906	.05805	.30489	.32945	.01665	.08391	.05060	.30631	1.1849	.49108	.96267	.11559	.36764
#1	.37856	18.992	.38456	.38088	18.600	.36923	.36951	18.179	.38234	.37581	18.919	.36239	.37595
#2	.38135	19.007	.38622	.37911	18.604	.36967	.36977	18.100	.37599	.37321	19.178	.36180	.37791
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
Value													
Range													

Elem	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm
Avg	.38349	.37002	.37436	.38621
Stddev	.00131	.00181	.00036	.00104
%RSD	.34211	.49045	.09653	.26851
#1	.38256	.36874	.37410	.38548
#2	.38442	.37130	.37461	.38695
Check ?	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	969.41	4650.1	37502.	6000.6
Stddev	.99	2.3	81.	39.6
%RSD	.10233	.04890	.21606	.66026
#1	970.11	4648.5	37559.	6028.6
#2	968.71	4651.7	37444.	5972.6

Sample Name: icb-2039081 Acquired: 5/1/2014 10:43:46 Type: QC
Method: ICAP 2 March 2014(v59) 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	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00042	-.00752	-.00147	-.00006	.00001	-.00013	-.00347	-.00038	-.00041	-.00018	-.00022	.00033	.00202
Stddev	.00031	.01236	.00075	.00025	.00002	.00007	.00191	.00001	.00004	.00053	.00020	.00000	.00514
%RSD	75.277	164.34	51.228	456.70	142.39	55.750	54.997	2.6333	8.6217	303.17	89.363	1.2788	253.91
#1	.00019	-.01626	-.00094	.00012	.00000	-.00018	-.00482	-.00038	-.00039	.00020	-.00008	.00033	-.00161
#2	.00064	.00122	-.00200	-.00023	.00003	-.00008	-.00212	-.00037	-.00044	-.00055	-.00036	.00032	.00566
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
High Limit													
Low Limit													

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	.00113	.00344	-.00002	-.00018	-.00478	-.00034	-.00019	-.01548	-.00010	.00066	-.01984	-.00052	-.00004
Stddev	.00116	.00318	.00008	.00005	.01381	.00017	.00091	.00014	.00002	.00148	.02506	.00036	.00007
%RSD	102.40	92.437	347.52	25.534	289.04	48.782	470.91	.89847	16.060	224.07	126.33	68.106	203.91
#1	.00031	.00568	.00003	-.00021	.00499	-.00022	-.00084	-.01538	-.00008	-.00039	-.00212	-.00027	.00002
#2	.00195	.00119	-.00008	-.00015	-.01455	-.00046	.00045	-.01558	-.00011	.00171	-.03756	-.00077	-.00009
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
High Limit													
Low Limit													

Elem	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm
Avg	.00026	-.00012	.00038	.00057
Stddev	.00037	.00006	.00018	.00050
%RSD	140.85	44.869	46.166	88.432
#1	.00052	-.00016	.00026	.00092
#2	.00000	-.00008	.00051	.00021
Check ?	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	1037.0	4682.3	38145.	5985.4
Stddev	6.4	28.9	16.	12.6
%RSD	.61822	.61808	.04275	.21039
#1	1032.4	4661.8	38133.	5976.5
#2	1041.5	4702.7	38156.	5994.3

Sample Name: icvl-1999432 Acquired: 5/1/2014 10:46:35 Type: QC
Method: ICAP 2 March 2014(v59) 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	**.00654**	**.18795**	**.01357**	**.01959**	**.00219**	**.00201**	**.50212**	**.00168**	**.00352**	**.00421**	**.01021**	**.05397**
Stddev	.00084	.03359	.00061	.00026	.00004	.00007	.01058	.00002	.00010	.00001	.00032	.00211
%RSD	12.890	17.870	4.4992	1.3335	1.7255	3.5547	2.1065	.97218	2.8786	.24729	3.1542	3.9073
#1	.00714	.21170	.01400	.01940	.00221	.00206	.50959	.00166	.00345	.00422	.00999	.05546
#2	.00594	.16420	.01313	.01977	.00216	.00196	.49464	.00169	.00360	.00421	.01044	.05248
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	**.50378**	**.03141**	**.20523**	**.00302**	**.00988**	**.99665**	**.00905**	**.00980**	F **-.02203**	**.01780**	**.02693**	**.47495**
Stddev	.03447	.00038	.00340	.00004	.00022	.00646	.00036	.00136	.00236	.00118	.00257	.01794
%RSD	6.8428	1.2006	1.6572	1.4429	2.2148	.64795	4.0082	13.830	10.690	6.6107	9.5328	3.7773
#1	.47941	.03167	.20282	.00305	.01003	1.0012	.00931	.00884	-.02037	.01863	.02874	.46226
#2	.52816	.03114	.20763	.00299	.00972	.99209	.00880	.01076	-.02370	.01697	.02511	.48763
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
Value									.20000			
Range									-50.000%			

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00845**	**.00503**	**.00514**	**.01927**	**.00493**	**.01054**
Stddev	.00008	.00013	.00064	.00006	.00027	.00004
%RSD	.96262	2.4972	12.414	.31317	5.3951	.42682
#1	.00840	.00512	.00559	.01923	.00474	.01051
#2	.00851	.00494	.00469	.01931	.00512	.01057
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	**1030.8**	**4664.7**	**38202.**	**5924.3**
Stddev	1.8	.5	7.	50.2
%RSD	.17101	.00971	.01834	.84755
#1	1029.6	4665.0	38197.	5888.7
#2	1032.1	4664.3	38207.	5959.8

Sample Name: cri-1953286 Acquired: 5/1/2014 10:49:24 Type: QC
Method: ICAP 2 March 2014(v59) 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	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00276**	**.20309**	**.00938**	**.01905**	**.00213**	**.00182**	**.50390**	**.00057**	**.00361**	**.00421**	**.01039**	**.05640**	**.48693**
Stddev	.00078	.01341	.00044	.00025	.00000	.00000	.00151	.00010	.00016	.00024	.00045	.00313	.01635
%RSD	28.234	6.6019	4.6880	1.3226	.00791	.06452	.29929	17.087	4.4696	5.7706	4.3380	5.5486	3.3581
#1	.00331	.19361	.00907	.01887	.00213	.00182	.50283	.00064	.00373	.00438	.01007	.05419	.47537
#2	.00221	.21257	.00969	.01923	.00213	.00183	.50496	.00050	.00350	.00404	.01070	.05861	.49849
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
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	**.03196**	**.20676**	**.00305**	**.00995**	**1.0049**	**.00947**	**.00485**	**.15628**	**.01966**	**.01723**	**.46221**	**.00894**	**.00510**
Stddev	.00270	.00366	.00001	.00007	.0186	.00064	.00130	.00051	.00070	.00120	.02761	.00005	.00002
%RSD	8.4332	1.7700	.44062	.70198	1.8525	6.7881	26.755	.32431	3.5438	6.9812	5.9725	.52370	.46737
#1	.03386	.20935	.00306	.00990	1.0181	.00992	.00393	.15592	.02015	.01638	.44269	.00897	.00512
#2	.03005	.20417	.00304	.01000	.99175	.00901	.00576	.15664	.01916	.01808	.48173	.00891	.00508
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
Value													
Range													

Elem	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm
Avg	**.00513**	**.01908**	**.00559**	**.01045**
Stddev	.00058	.00079	.00013	.00055
%RSD	11.237	4.1188	2.3094	5.2195
#1	.00473	.01963	.00550	.01084
#2	.00554	.01852	.00568	.01007
Check ?	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	**1016.4**	**4588.6**	**37726.**	**5866.0**
Stddev	3.5	25.9	63.	7.8
%RSD	.34911	.56543	.16751	.13372
#1	1013.9	4570.3	37771.	5871.6
#2	1019.0	4607.0	37681.	5860.5

Sample Name: icsa-2039056 Acquired: 5/1/2014 10:52:12 Type: QC
Method: ICAP 2 March 2014(v59) 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	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00251**	**521.54**	**.00466**	**-.00770**	**.00012**	**-.00012**	**475.56**	**-.00052**	**.00046**	**-.00206**	**.00384**	**195.15**	**-.02330**
Stddev	.00075	1.37	.00195	.00030	.00000	.00006	2.84	.00005	.00008	.00017	.00014	.64	.02798
%RSD	30.018	.26306	41.908	3.8681	2.9531	52.077	.59740	10.407	18.025	8.0600	3.7254	.32642	120.12
#1	.00198	520.57	.00604	-.00749	.00012	-.00008	473.55	-.00049	.00052	-.00194	.00374	194.70	-.04308
#2	.00304	522.51	.00328	-.00791	.00013	-.00016	477.57	-.00056	.00040	-.00218	.00394	195.60	-.00351
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
High Limit													
Low Limit													

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	**.04120**	**527.83**	**.00474**	**-.00515**	**.02549**	**.00499**	**-.00838**	**-.05997**	**-.02812**	**.00390**	**-.03192**	**.00555**	**.01463**
Stddev	.00134	3.49	.00004	.00013	.01206	.00003	.00036	.00576	.00257	.00027	.00419	.00118	.00010
%RSD	3.2579	.66115	.89141	2.4910	47.339	.59655	4.3368	9.6103	9.1458	6.8939	13.134	21.292	.65517
#1	.04215	530.30	.00477	-.00524	.01695	.00497	-.00813	-.05590	-.02994	.00409	-.03489	.00638	.01469
#2	.04025	525.37	.00471	-.00506	.03402	.00501	-.00864	-.06405	-.02630	.00371	-.02896	.00471	.01456
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	None
High Limit													
Low Limit													

Elem	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm
Avg	**.00259**	**-.00963**	**.00400**	**.00063**
Stddev	.00016	.00151	.00036	.00031
%RSD	6.2950	15.695	8.9608	48.365
#1	.00248	-.00856	.00425	.00085
#2	.00271	-.01070	.00374	.00042
Check ?	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	**762.77**	**4102.0**	**32998.**	**5796.3**
Stddev	2.81	2.9	111.	28.7
%RSD	.36833	.07038	.33711	.49491
#1	764.76	4104.1	32919.	5816.6
#2	760.79	4100.0	33077.	5776.0

Sample Name: icsab-1937947 Acquired: 5/1/2014 10:55:07 Type: QC
Method: ICAP 2 March 2014(v59) 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	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.21584	487.55	.11343	-.00360	.49298	.48414	443.07	1.0085	.50378	.47921	.53215	89.635	-.02851
Stddev	.00220	.07	.00228	.00028	.00458	.00086	.67	.0051	.00232	.00621	.00520	.126	.01524
%RSD	1.0196	.01443	2.0080	7.8960	.92900	.17669	.15072	.50627	.46076	1.2961	.97766	.14045	53.463
#1	.21428	487.50	.11182	-.00340	.48974	.48354	442.60	1.0049	.50214	.47482	.52847	89.724	-.03929
#2	.21739	487.60	.11504	-.00380	.49621	.48474	443.55	1.0121	.50542	.48360	.53582	89.546	-.01773
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	.53744	507.32	.47018	-.00417	.08271	.97506	.04241	.52000	.58941	.05107	.96842	.00425	.48290
Stddev	.00147	4.32	.00462	.00003	.00645	.00398	.00013	.00098	.00178	.00098	.00099	.00075	.00042
%RSD	.27312	.85107	.98241	.66870	7.7956	.40793	.29902	.18794	.30140	1.9093	.10257	17.553	.08694
#1	.53848	504.27	.46692	-.00419	.08727	.97225	.04232	.51931	.58816	.05038	.96912	.00477	.48260
#2	.53641	510.37	.47345	-.00415	.07815	.97787	.04250	.52069	.59067	.05176	.96772	.00372	.48319
Check ?	None	Chk Pass	Chk Pass	None	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	None	None
Value													
Range													

Elem	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm
Avg	.00388	.08850	.49565	.96780
Stddev	.00056	.00108	.00377	.00907
%RSD	14.490	1.2254	.76053	.93675
#1	.00427	.08927	.49298	.96139
#2	.00348	.08773	.49831	.97421
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	768.42	4141.5	33344.	5917.8
Stddev	2.48	12.3	213.	18.3
%RSD	.32296	.29790	.63949	.30879
#1	770.18	4150.3	33495.	5904.9
#2	766.67	4132.8	33194.	5930.8

Sample Name: ccv-2039078 Acquired: 5/1/2014 10:58:00 Type: QC
Method: ICAP 2 March 2014(v59) 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	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.49859	26.063	.52020	.49984	.51094	.51239	25.570	.51043	.49980	.50294	.50772	25.727	25.603
Stddev	.00469	.045	.00266	.00072	.00095	.00253	.135	.00135	.00097	.00556	.00387	.174	.149
%RSD	.94045	.17196	.51227	.14476	.18513	.49284	.52866	.26378	.19471	1.1062	.76173	.67549	.58122
#1	.50191	26.095	.51832	.49933	.51161	.51417	25.666	.50948	.49911	.50687	.51046	25.850	25.708
#2	.49528	26.031	.52209	.50036	.51028	.51060	25.475	.51138	.50048	.49900	.50499	25.604	25.498
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
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	.51714	25.477	.51056	.51749	25.425	.50246	.50380	24.920	.52269	.51242	25.588	.49553	.51382
Stddev	.00062	.280	.00652	.00069	.150	.00001	.00047	.103	.00080	.00521	.047	.00087	.00198
%RSD	.12018	1.1005	1.2778	.13427	.59171	.00114	.09250	.41220	.15269	1.0175	.18507	.17596	.38600
#1	.51758	25.676	.51517	.51700	25.531	.50247	.50413	24.848	.52213	.50874	25.621	.49491	.51522
#2	.51670	25.279	.50594	.51798	25.319	.50246	.50347	24.993	.52326	.51611	25.555	.49615	.51242
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
Value													
Range													

Elem	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm
Avg	.51212	.50337	.50259	.51249
Stddev	.00409	.00021	.00465	.00333
%RSD	.79899	.04266	.92569	.64898
#1	.51502	.50322	.50588	.51484
#2	.50923	.50352	.49930	.51014
Check ?	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	955.56	4605.0	37550.	5941.6
Stddev	2.48	11.3	198.	39.6
%RSD	.26000	.24519	.52792	.66694
#1	957.32	4612.9	37410.	5913.6
#2	953.80	4597.0	37690.	5969.7

Sample Name: ccb-2039081 Acquired: 5/1/2014 11:00:39 Type: QC
Method: ICAP 2 March 2014(v59) 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	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00053**	**-.00293**	**-.00180**	**-.00140**	**.00007**	**-.00008**	**.00709**	**-.00041**	**-.00033**	**-.00004**	**.00025**	**.00311**	**-.00751**
Stddev	.00009	.00886	.00059	.00018	.00000	.00006	.01297	.00001	.00001	.00023	.00053	.00701	.00689
%RSD	17.545	302.33	33.052	13.093	6.4076	82.032	182.99	2.3457	2.0243	635.86	212.78	225.18	91.737
#1	-.00046	-.00920	-.00138	-.00153	.00007	-.00012	-.00208	-.00041	-.00033	.00013	-.00013	-.00184	-.00264
#2	-.00060	.00333	-.00222	-.00127	.00007	-.00003	.01626	-.00042	-.00033	-.00020	.00062	.00807	-.01238
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
High Limit													
Low Limit													

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	**.00121**	**.03908**	**.00003**	**-.00020**	**-.00788**	**-.00020**	**-.00051**	**-.02029**	**.00004**	**-.00111**	**-.02819**	**-.00082**	**.00000**
Stddev	.00108	.00243	.00001	.00003	.00829	.00019	.00041	.00324	.00071	.00196	.00350	.00011	.0000
%RSD	89.789	6.2236	18.963	13.093	105.23	95.328	81.082	15.980	1794.1	176.86	12.422	13.198	1550.9
#1	.00044	.03736	.00003	-.00018	-.01374	-.00006	-.00080	-.01800	.00054	-.00249	-.02571	-.00089	.00003
#2	.00197	.04080	.00004	-.00022	-.00202	-.00033	-.00022	-.02258	-.00046	.00028	-.03066	-.00074	-.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	Chk Pass
High Limit													
Low Limit													

Elem	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm
Avg	**.00060**	**.00019**	**.00085**	**.00050**
Stddev	.00009	.00159	.00115	.00024
%RSD	14.112	836.63	135.37	47.694
#1	.00066	.00131	.00004	.00067
#2	.00054	-.00093	.00166	.00033
Check ?	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	**1039.6**	**4667.7**	**38048.**	**5912.2**
Stddev	.8	7.3	478.	1.4
%RSD	.08173	.15539	1.2568	.02441
#1	1039.0	4662.5	38386.	5911.2
#2	1040.2	4672.8	37710.	5913.2

Sample Name: CCVL Acquired: 5/1/2014 11:03:27 Type: QC
Method: ICAP 2 March 2014(v59) 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	.21688	.01458	.01904	.00239	.00201	.49729	.00160	.00355	.00369	.01013	.04867
Stddev	.00025	.01209	.00163	.00017	.00002	.00020	.00145	.00004	.00013	.00013	.00025	.00130
%RSD	4.3241	5.5746	11.199	.91623	.74028	9.7262	.29140	2.2876	3.7941	3.5388	2.5102	2.6681
#1	.00553	.22543	.01343	.01891	.00238	.00187	.49627	.00158	.00345	.00378	.00995	.04959
#2	.00588	.20833	.01573	.01916	.00241	.00215	.49832	.00163	.00364	.00360	.01031	.04776
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	.46981	.03092	.20492	.00295	.00963	.99761	.00891	.01043	F -.02475	.01867	.02551	.45381
Stddev	.00731	.00141	.00171	.00008	.00002	.00648	.00022	.00040	.00117	.00089	.00433	.01622
%RSD	1.5550	4.5535	.83621	2.6234	.25255	.64994	2.5115	3.7980	4.7285	4.7721	16.975	3.5746
#1	.47498	.02992	.20614	.00301	.00964	1.0022	.00876	.01015	-.02557	.01930	.02857	.46528
#2	.46465	.03191	.20371	.00290	.00961	.99303	.00907	.01071	-.02392	.01804	.02244	.44234
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
Value									.20000			
Range									-50.000%			

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00856	.00498	.00483	.01912	.00564	.01002
Stddev	.00060	.00003	.00034	.00032	.00029	.00023
%RSD	6.9610	.52688	7.1412	1.6562	5.1550	2.2641
#1	.00898	.00500	.00458	.01890	.00544	.01018
#2	.00814	.00496	.00507	.01934	.00585	.00986
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	1038.8	4689.3	38344.	5995.4
Stddev	1.0	4.2	59.	8.3
%RSD	.09979	.08974	.15300	.13762
#1	1038.0	4686.3	38386.	6001.2
#2	1039.5	4692.3	38303.	5989.5

Sample Name: BLANK Acquired: 5/1/2014 11:06:16 Type: Unk
Method: ICAP 2 March 2014(v59) 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**	**.07281**	**-.00201**	**-.00112**	**.00014**	**.00001**	**.08958**	**-.00048**	**-.00042**
Stddev	.00009	.14343	.00092	.00035	.00009	.00007	.12785	.00023	.00004
%RSD	39.797	197.00	45.854	31.635	60.088	738.28	142.72	47.480	9.2450
#1	-.00016	-.02861	-.00266	-.00137	.00021	-.00004	-.00083	-.00064	-.00039
#2	-.00029	.17423	-.00136	-.00087	.00008	.00006	.17999	-.00032	-.00045
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**	**-.00017**	**.03149**	**-.05472**	**.00180**	**.06947**	**.00000**	**-.00032**	**-.00393**
Stddev	.00008	.00029	.03916	.02114	.00194	.09726	.00028	.00020	.00322
%RSD	24.751	168.74	124.37	38.639	107.37	140.00	11921.	64.494	81.908
#1	-.00027	-.00038	.00380	-.03977	.00317	.13824	.00020	-.00017	-.00165
#2	-.00038	.00003	.05918	-.06967	.00043	.00070	-.00020	-.00046	-.00620
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**	**-.02576**	**-.00147**	**-.00010**	**-.01862**	**-.00087**	**.00008**	**.00042**
Stddev	.00017	.00077	.00188	.00039	.00109	.01807	.00022	.00012	.00079
%RSD	42.480	804.41	7.2969	26.239	1079.5	97.003	25.129	140.65	187.77
#1	-.00027	.00064	-.02443	-.00174	.00067	-.00585	-.00072	.00000	-.00014
#2	-.00051	-.00045	-.02709	-.00120	-.00087	-.03140	-.00103	.00016	.00098
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	**-.00135**	**.00083**	**.00039**
Stddev	.00020	.00003	.00016
%RSD	14.474	3.8543	41.801
#1	-.00149	.00081	.00027
#2	-.00121	.00085	.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	**1033.7**	**4640.7**	**38790.**	**6042.3**
Stddev	1.9	14.8	280.	33.5
%RSD	.18664	.31833	.72255	.55385
#1	1035.0	4651.1	38592.	6018.6
#2	1032.3	4630.2	38988.	6066.0

Sample Name: CCV Acquired: 5/1/2014 11:09:07 Type: QC
Method: ICAP 2 March 2014(v59) 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	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.49237**	**25.167**	**.51975**	**.49971**	**.50516**	**.49291**	**24.711**	**.50881**	**.50042**	**.49827**	**.50406**	**24.902**	**24.882**
Stddev	.00000	.563	.01368	.01030	.00197	.01106	.518	.01152	.01132	.00082	.00106	.515	.482
%RSD	.00034	2.2362	2.6319	2.0619	.39018	2.2444	2.0953	2.2632	2.2614	.16366	.20960	2.0677	1.9370
#1	.49237	24.769	.51008	.49242	.50655	.48508	24.345	.50067	.49242	.49884	.50331	24.538	24.541
#2	.49237	25.565	.52942	.50699	.50377	.50073	25.077	.51696	.50842	.49769	.50481	25.266	25.223
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
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	**.50074**	**25.386**	**.50792**	**.51773**	**24.666**	**.50516**	**.50609**	**24.872**	**.51856**	**.50795**	**24.773**	**.49744**	**.49603**
Stddev	.01233	.019	.00001	.01229	.477	.01176	.01101	.559	.00919	.01039	.747	.01183	.01152
%RSD	2.4624	.07480	.00233	2.3745	1.9332	2.3279	2.1748	2.2480	1.7724	2.0456	3.0146	2.3777	2.3225
#1	.49202	25.399	.50793	.50904	24.328	.49685	.49831	24.477	.51206	.50061	24.245	.48907	.48789
#2	.50946	25.373	.50792	.52642	25.003	.51348	.51387	25.267	.52506	.51530	25.301	.50580	.50418
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
Value													
Range													

Elem	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm
Avg	**.50978**	**.50484**	**.49844**	**.51171**
Stddev	.00030	.01160	.00111	.00260
%RSD	.05957	2.2980	.22204	.50773
#1	.50956	.49663	.49922	.50987
#2	.50999	.51304	.49766	.51355
Check ?	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	**949.69**	**4588.8**	**37719.**	**6060.0**
Stddev	16.63	84.6	39.	96.0
%RSD	1.7513	1.8440	.10232	1.5842
#1	961.45	4648.6	37746.	6127.8
#2	937.93	4528.9	37692.	5992.1

Sample Name: CCB Acquired: 5/1/2014 11:11:44 Type: QC
Method: ICAP 2 March 2014(v59) 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	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00023**	**.00522**	**.00004**	**-.00124**	**.00001**	**-.00019**	**-.00425**	**-.00053**	**-.00031**	**-.00012**	**.00062**	**-.00107**	**.01473**
Stddev	.00007	.02517	.00022	.00023	.00003	.00001	.00392	.00007	.00002	.00007	.00021	.00406	.02218
%RSD	31.538	481.96	581.36	18.471	309.20	5.7955	92.320	13.962	7.9106	54.403	34.169	380.06	150.54
#1	.00028	-.01258	.00019	-.00107	-.00001	-.00020	-.00702	-.00048	-.00029	-.00017	.00077	.00180	-.00095
#2	.00018	.02302	-.00012	-.00140	.00003	-.00018	-.00147	-.00058	-.00033	-.00008	.00047	-.00394	.03041
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
High Limit													
Low Limit													

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	**.00249**	**-.00132**	**-.00008**	**-.00025**	**.00649**	**-.00069**	**.00039**	**-.02242**	**-.00021**	**.00250**	**-.00933**	**-.00062**	**.00004**
Stddev	.00028	.00178	.00002	.00020	.01258	.00015	.00069	.00256	.00084	.00006	.01220	.00043	.00008
%RSD	11.390	134.95	30.324	78.112	193.81	21.933	173.80	11.429	396.26	2.5554	130.66	68.937	195.84
#1	.00229	-.00257	-.00010	-.00011	.01539	-.00058	-.00009	-.02061	.00038	.00245	-.01796	-.00093	-.00002
#2	.00269	-.00006	-.00006	-.00039	-.00240	-.00080	.00088	-.02423	-.00080	.00254	-.00071	-.00032	.00010
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
High Limit													
Low Limit													

Elem	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm
Avg	**.00029**	**-.00074**	**.00099**	**-.00001**
Stddev	.00000	.00027	.00038	.00027
%RSD	1.5249	36.457	38.063	3770.1
#1	.00029	-.00055	.00072	-.00020
#2	.00029	-.00093	.00125	.00018
Check ?	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	**1037.0**	**4654.8**	**38381.**	**6037.7**
Stddev	1.9	11.0	52.	37.6
%RSD	.18574	.23632	.13569	.62337
#1	1035.7	4647.0	38418.	6064.3
#2	1038.4	4662.6	38344.	6011.1

Sample Name: CCVL Acquired: 5/1/2014 11:14:35 Type: QC
Method: ICAP 2 March 2014(v59) 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	.00597	.18837	.01248	.01879	.00241	.00197	.49861	.00160	.00351	.00394	.01055	.04830
Stddev	.00090	.01276	.00074	.00027	.00002	.00016	.00724	.00013	.00014	.00020	.00012	.00128
%RSD	15.004	6.7737	5.9595	1.4564	.75346	7.8931	1.4514	8.4516	4.0965	5.1420	1.1498	2.6493
#1	.00534	.19740	.01195	.01898	.00243	.00208	.50373	.00150	.00341	.00408	.01063	.04739
#2	.00660	.17935	.01300	.01859	.00240	.00186	.49350	.00169	.00362	.00380	.01046	.04920
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	.49618	.03095	.20264	.00301	.00967	1.0023	.00877	.01014	F -.02500	.01919	.02747	.45613
Stddev	.02316	.00036	.00523	.00005	.00021	.0022	.00035	.00070	.00110	.00071	.00295	.00711
%RSD	4.6666	1.1534	2.5797	1.6215	2.1576	.21607	3.9396	6.9211	4.3809	3.6905	10.730	1.5597
#1	.47981	.03120	.19894	.00304	.00952	1.0008	.00901	.01063	-.02423	.01869	.02955	.46116
#2	.51255	.03070	.20633	.00297	.00982	1.0038	.00852	.00964	-.02578	.01969	.02539	.45110
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
Value									.20000			
Range									-50.000%			

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00831	.00508	.00508	.01840	.00495	.01029
Stddev	.00013	.00007	.00010	.00058	.00034	.00050
%RSD	1.5533	1.3079	2.0651	3.1728	6.9138	4.9055
#1	.00822	.00503	.00515	.01798	.00519	.00993
#2	.00840	.00512	.00500	.01881	.00471	.01064
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	1038.5	4676.9	38674.	5988.7
Stddev	5.1	30.2	176.	69.0
%RSD	.48936	.64498	.45600	1.1528
#1	1042.1	4698.2	38549.	5939.9
#2	1034.9	4655.6	38798.	6037.6

Sample Name: mb 480-179065/1-a Acquired: 5/1/2014 11:17:22 Type: Unk
Method: ICAP 2 March 2014(v59) 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**	**-.00342**	**-.00092**	**.00034**	**.00033**	**-.00006**	**.04136**	**-.00037**	**-.00054**
Stddev	.00085	.00877	.00013	.00016	.00002	.00002	.00169	.00009	.00019
%RSD	2754.5	256.53	14.350	47.939	6.3388	38.488	4.0747	24.744	34.719
#1	-.00057	-.00962	-.00083	.00023	.00034	-.00004	.04017	-.00043	-.00041
#2	.00063	.00278	-.00102	.00046	.00031	-.00007	.04255	-.00030	-.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	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	**-.00007**	**.00069**	**.00470**	**.00507**	**.00095**	**.00031**	**.00097**	**-.00041**	**.00061**
Stddev	.00029	.00028	.00286	.02296	.00010	.00427	.00011	.00018	.00066
%RSD	430.42	39.943	60.869	452.83	10.362	1396.2	11.410	44.662	108.09
#1	-.00027	.00049	.00268	.02130	.00088	-.00271	.00105	-.00054	.00014
#2	.00014	.00088	.00673	-.01116	.00102	.00333	.00089	-.00028	.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	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**	**.00000**	**-.02351**	**-.00017**	**.00158**	**-.02780**	**-.00090**	**.00018**	**.00061**
Stddev	.00017	.0000	.00024	.00028	.00109	.00150	.00038	.00004	.00016
%RSD	30.924	1448.5	1.0299	164.13	68.901	5.3903	42.182	22.750	26.085
#1	-.00042	-.00003	-.02334	-.00036	.00235	-.02886	-.00117	.00015	.00050
#2	-.00065	.00002	-.02369	.00003	.00081	-.02674	-.00063	.00021	.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	**-.00076**	**.00011**	**.00188**
Stddev	.00002	.00022	.00001
%RSD	2.1283	190.78	.60554
#1	-.00077	-.00004	.00189
#2	-.00075	.00027	.00187
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	**1048.2**	**4705.2**	**39046.**	**6152.9**
Stddev	5.5	22.4	159.	31.1
%RSD	.52139	.47622	.40647	.50611
#1	1044.3	4689.3	38934.	6130.8
#2	1052.0	4721.0	39158.	6174.9

Sample Name: lcs 480-179065/2-a Acquired: 5/1/2014 11:20:11 Type: Unk
Method: ICAP 2 March 2014(v59) 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	**.04998**	**10.354**	**.20923**	**.20289**	**.20983**	**.20723**	**10.074**	**.20107**	**.19755**
Stddev	.00034	.029	.00159	.00031	.00003	.00100	.055	.00106	.00129
%RSD	.67293	.28324	.75941	.15465	.01561	.48105	.54238	.52722	.65268
#1	.05022	10.333	.21036	.20267	.20985	.20652	10.036	.20032	.19664
#2	.04974	10.374	.20811	.20311	.20980	.20793	10.113	.20182	.19846
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	**.20262**	**.20191**	**10.187**	**10.001**	**.20202**	**10.460**	**.20646**	**.20163**	**9.9154**
Stddev	.00057	.00043	.002	.071	.00025	.008	.00015	.00106	.0403
%RSD	.28103	.21150	.02412	.70869	.12480	.07340	.07191	.52621	.40682
#1	.20222	.20161	10.189	10.051	.20220	10.455	.20636	.20088	9.9439
#2	.20303	.20221	10.185	9.9511	.20184	10.465	.20657	.20238	9.8869
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	**.19442**	**.19779**	**9.8495**	**.19923**	**.20531**	**10.213**	**.19086**	**.20098**	**.19758**
Stddev	.00110	.00196	.0497	.00094	.00048	.007	.00107	.00052	.00007
%RSD	.56604	.99074	.50490	.47071	.23318	.07163	.56154	.25986	.03415
#1	.19364	.19641	9.8143	.19857	.20497	10.207	.19010	.20135	.19763
#2	.19520	.19918	9.8847	.19990	.20565	10.218	.19161	.20061	.19753
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	**.20103**	**.20590**	**.20871**
Stddev	.00117	.00089	.00091
%RSD	.58300	.43423	.43578
#1	.20020	.20654	.20806
#2	.20186	.20527	.20935
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	**981.17**	**4593.5**	**37331.**	**5953.5**
Stddev	2.44	11.0	83.	38.1
%RSD	.24903	.23889	.22199	.63950
#1	982.89	4601.3	37272.	5926.5
#2	979.44	4585.8	37390.	5980.4

Sample Name: 480-58826-a-1-a Acquired: 5/1/2014 11:22:49 Type: Unk
Method: ICAP 2 March 2014(v59) 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	**-.00026**	**.18481**	**-.00246**	**7.5621**	**.01159**	**.00000**	**23.336**	**-.00062**	**-.00023**
Stddev	.00041	.00802	.00045	.0017	.00041	.0000	.184	.00009	.00006
%RSD	158.40	4.3385	18.413	.02257	3.5387	489.70	.78848	14.551	26.302
#1	-.00055	.19048	-.00214	7.5633	.01188	-.00002	23.466	-.00068	-.00027
#2	.00003	.17914	-.00278	7.5609	.01130	.00001	23.206	-.00055	-.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	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	**.00119**	**.01561**	**1.5109**	**8.3243**	**.00512**	**4.3405**	**.04068**	**-.00022**	**154.52**
Stddev	.00028	.00053	.0025	.0248	.00003	.1539	.00129	.00008	1.03
%RSD	23.701	3.4245	.16756	.29772	.61760	3.5461	3.1785	35.517	.66878
#1	.00099	.01598	1.5127	8.3067	.00514	4.4494	.04160	-.00027	155.25
#2	.00139	.01523	1.5091	8.3418	.00510	4.2317	.03977	-.00016	153.79
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	**.00569**	**.00013**	**52.019**	**-.00043**	**-.00012**	**2.9228**	**-.00048**	**.17496**	**.00044**
Stddev	.00021	.00094	.040	.00008	.00184	.0031	.00013	.00072	.00014
%RSD	3.7231	737.89	.07633	18.658	1473.8	.10551	26.283	.41315	32.479
#1	.00584	-.00054	52.047	-.00037	.00118	2.9206	-.00057	.17547	.00054
#2	.00554	.00079	51.991	-.00048	-.00143	2.9250	-.00039	.17445	.00034
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**	**.00056**	**.03332**
Stddev	.00058	.00048	.00202
%RSD	417.65	86.720	6.0607
#1	-.00055	.00090	.03475
#2	.00027	.00021	.03190
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	**921.59**	**4443.0**	**36697.**	**5876.7**
Stddev	2.47	9.1	999.	17.1
%RSD	.26782	.20593	2.7224	.29067
#1	923.34	4436.5	35990.	5864.7
#2	919.85	4449.5	37403.	5888.8

Sample Name: 480-58826-a-1-aSD@5 Acquired: 5/1/2014 11:25:33 Type: Unk
Method: ICAP 2 March 2014(v59) 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**	**.05782**	**-.00224**	**1.4287**	**.00288**	**-.00010**	**4.5470**	**-.00054**	**-.00025**
Stddev	.00103	.03569	.00154	.0100	.00002	.00021	.0001	.00003	.00002
%RSD	487.85	61.721	68.988	.69708	.55521	210.20	.00230	5.4945	7.6409
#1	-.00052	.03258	-.00333	1.4358	.00287	-.00025	4.5471	-.00052	-.00023
#2	.00094	.08305	-.00115	1.4217	.00289	.00005	4.5469	-.00056	-.00026
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**	**.00380**	**.29038**	**1.5458**	**.00270**	**.85470**	**.00851**	**-.00033**	**29.492**
Stddev	.00074	.00029	.00269	.0211	.00000	.00209	.00013	.00009	.202
%RSD	360.02	7.6310	.92680	1.3669	.08155	.24464	1.5464	26.137	.68465
#1	-.00032	.00401	.28848	1.5607	.00270	.85618	.00860	-.00027	29.635
#2	.00073	.00360	.29228	1.5308	.00270	.85322	.00842	-.00039	29.349
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	**.00046**	**-.00012**	**9.6102**	**-.00079**	**-.00076**	**.52306**	**-.00077**	**.03396**	**.00019**
Stddev	.00004	.00010	.0682	.00028	.00207	.02728	.00008	.00007	.00041
%RSD	8.9935	81.597	.70916	36.132	273.20	5.2145	10.048	.19210	213.70
#1	.00043	-.00019	9.6584	-.00059	-.00223	.50378	-.00083	.03391	-.00010
#2	.00049	-.00005	9.5620	-.00099	.00071	.54235	-.00072	.03401	.00049
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	**-.00021**	**.00075**	**.00682**
Stddev	.00140	.00009	.00051
%RSD	656.84	11.817	7.4163
#1	.00077	.00082	.00646
#2	-.00120	.00069	.00718
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	**994.68**	**4580.3**	**37383.**	**5899.0**
Stddev	7.24	31.9	109.	3.9
%RSD	.72752	.69718	.29146	.06563
#1	989.57	4557.7	37306.	5901.8
#2	999.80	4602.9	37460.	5896.3

Sample Name: 480-58826-a-1-a PDS Acquired: 5/1/2014 11:28:18 Type: Unk
Method: ICAP 2 March 2014(v59) 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	**.05044**	**10.887**	**.22102**	**7.3955**	**.22206**	**.21733**	**32.643**	**.20997**	**.20970**
Stddev	.00045	.163	.00474	.0823	.00079	.00174	.183	.00244	.00192
%RSD	.88336	1.4972	2.1456	1.1132	.35355	.80008	.56066	1.1641	.91444
#1	.05012	10.771	.22437	7.4537	.22261	.21610	32.514	.21170	.21105
#2	.05075	11.002	.21766	7.3373	.22150	.21856	32.773	.20825	.20834
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	**.21045**	**.22507**	**11.954**	**18.184**	**.21655**	**14.655**	**.24496**	**.20862**	**158.54**
Stddev	.00090	.00014	.159	.147	.00298	.195	.00027	.00268	.67
%RSD	.42991	.06335	1.3268	.80889	1.3761	1.3286	.10930	1.2850	.42448
#1	.21109	.22496	11.841	18.080	.21444	14.793	.24515	.21051	158.06
#2	.20981	.22517	12.066	18.288	.21866	14.517	.24477	.20672	159.02
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	**.21308**	**.20849**	**49.373**	**.20793**	**.21628**	**14.013**	**.16852**	**.37338**	**.20729**
Stddev	.00220	.00273	.532	.00333	.00235	.146	.00238	.00228	.00051
%RSD	1.0325	1.3092	1.0782	1.6013	1.0857	1.0385	1.4105	.61046	.24826
#1	.21464	.21042	49.749	.21028	.21794	13.910	.17020	.37177	.20693
#2	.21152	.20656	48.997	.20557	.21462	14.116	.16684	.37500	.20765
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	**.20451**	**.21619**	**.24806**
Stddev	.00413	.00059	.00031
%RSD	2.0182	.27121	.12535
#1	.20743	.21660	.24784
#2	.20159	.21577	.24828
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	**919.41**	**4512.2**	**36854.**	**6044.5**
Stddev	5.75	35.4	40.	67.7
%RSD	.62532	.78531	.10736	1.1200
#1	915.34	4487.1	36826.	6092.4
#2	923.47	4537.3	36882.	5996.7

Sample Name: 480-58826-a-1-b ms Acquired: 5/1/2014 11:30:55 Type: Unk
Method: ICAP 2 March 2014(v59) 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	.05134	10.431	.21766	7.8387	.21999	.20888	33.053	.20601	.20446
Stddev	.00063	.137	.00060	.0225	.00052	.00216	.287	.00025	.00045
%RSD	1.2309	1.3173	.27627	.28741	.23651	1.0329	.86848	.12133	.22008
#1	.05090	10.334	.21809	7.8546	.21962	.20735	32.850	.20618	.20478
#2	.05179	10.528	.21724	7.8227	.22036	.21040	33.256	.20583	.20414
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	.20815	.22298	11.627	18.171	.20848	14.945	.24385	.20441	164.20
Stddev	.00022	.00079	.104	.090	.00307	.068	.00076	.00006	.90
%RSD	.10740	.35648	.89150	.49621	1.4715	.45639	.31231	.03110	.54582
#1	.20799	.22242	11.554	18.107	.20631	14.897	.24331	.20446	163.57
#2	.20830	.22354	11.701	18.235	.21065	14.993	.24439	.20437	164.84
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	.20662	.20134	62.837	.20303	.21281	12.989	.19836	.37349	.20437
Stddev	.00065	.00189	.163	.00115	.00473	.112	.00109	.00331	.00091
%RSD	.31379	.93946	.25949	.56535	2.2237	.86407	.54972	.88496	.44508
#1	.20708	.20267	62.953	.20384	.21615	12.910	.19913	.37116	.20373
#2	.20616	.20000	62.722	.20222	.20946	13.069	.19758	.37583	.20501
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	.19927	.21267	.24588
Stddev	.00125	.00006	.00085
%RSD	.62696	.02729	.34441
#1	.20015	.21271	.24528
#2	.19838	.21263	.24648
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	902.46	4412.9	35687.	6013.4
Stddev	2.74	6.9	88.	29.2
%RSD	.30322	.15713	.24649	.48614
#1	900.52	4408.0	35750.	6034.1
#2	904.39	4417.9	35625.	5992.8

Sample Name: 480-58826-a-1-c msd Acquired: 5/1/2014 11:33:33 Type: Unk
Method: ICAP 2 March 2014(v59) 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**	**10.544**	**.22062**	**7.8828**	**.21846**	**.21083**	**33.227**	**.20724**	**.20559**
Stddev	.00176	.111	.00319	.0083	.00599	.00245	.231	.00063	.00102
%RSD	3.4285	1.0514	1.4450	.10598	2.7400	1.1627	.69428	.30483	.49409
#1	.05018	10.465	.22288	7.8887	.21422	.20910	33.064	.20768	.20631
#2	.05268	10.622	.21837	7.8769	.22269	.21257	33.390	.20679	.20487
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	**.20524**	**.22258**	**11.772**	**18.374**	**.21015**	**14.761**	**.24277**	**.20589**	**165.44**
Stddev	.00477	.00567	.135	.134	.00036	.394	.00650	.00087	1.02
%RSD	2.3255	2.5485	1.1434	.72717	.16928	2.6657	2.6778	.42386	.61419
#1	.20186	.21857	11.677	18.280	.20990	14.483	.23817	.20651	164.72
#2	.20861	.22659	11.867	18.469	.21040	15.039	.24737	.20528	166.16
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	**.20822**	**.20240**	**63.093**	**.20543**	**.21456**	**13.136**	**.19917**	**.37608**	**.20364**
Stddev	.00140	.00011	.059	.00194	.00105	.121	.00150	.00255	.00542
%RSD	.67470	.05401	.09299	.94625	.48836	.92395	.75503	.67688	2.6631
#1	.20921	.20247	63.135	.20681	.21530	13.051	.20023	.37428	.19980
#2	.20722	.20232	63.052	.20406	.21382	13.222	.19810	.37788	.20747
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	**.20144**	**.21101**	**.24324**
Stddev	.00126	.00459	.00484
%RSD	.62662	2.1741	1.9913
#1	.20233	.20776	.23982
#2	.20055	.21425	.24667
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	**915.74**	**4483.1**	**36533.**	**6079.2**
Stddev	3.33	18.5	759.	13.2
%RSD	.36343	.41290	2.0789	.21711
#1	913.39	4470.0	37070.	6088.5
#2	918.10	4496.2	35996.	6069.9

Sample Name: 480-58845-d-1-a Acquired: 5/1/2014 11:36:12 Type: Unk
Method: ICAP 2 March 2014(v59) 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**	**.67883**	**.00060**	**.04455**	**.03982**	**.00016**	**61.648**	**-.00042**	**.00000**
Stddev	.00005	.00539	.00063	.00094	.00012	.00035	.089	.00000	.00008
%RSD	70.635	.79434	105.65	2.1116	.30295	221.68	.14381	.37008	1619.7
#1	.00004	.67502	.00105	.04522	.03974	.00040	61.711	-.00042	.00006
#2	.00011	.68264	.00015	.04388	.03991	-.00009	61.586	-.00042	-.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	**.00055**	**.00254**	**.67435**	**3.2358**	**.00845**	**14.587**	**.05834**	**.00176**	**5.5153**
Stddev	.00048	.00041	.02162	.0278	.00076	.147	.00026	.00007	.3116
%RSD	86.068	16.163	3.2054	.86024	8.9812	1.0072	.44975	3.8880	5.6490
#1	.00022	.00283	.68963	3.2555	.00899	14.691	.05816	.00171	5.7356
#2	.00089	.00225	.65906	3.2162	.00792	14.483	.05853	.00181	5.2950
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	**.00214**	**.00108**	**45.585**	**-.00089**	**.00176**	**2.4317**	**-.00069**	**.22283**	**.01101**
Stddev	.00038	.00118	.028	.00013	.00173	.0396	.00041	.00040	.00063
%RSD	17.561	109.56	.06074	14.225	98.484	1.6293	58.933	.17763	5.7063
#1	.00188	.00024	45.605	-.00097	.00053	2.4597	-.00040	.22311	.01145
#2	.00241	.00191	45.566	-.00080	.00298	2.4037	-.00098	.22255	.01057
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	**-.00015**	**.00150**	**.00811**
Stddev	.00082	.00016	.00002
%RSD	539.82	10.444	.26063
#1	.00043	.00161	.00809
#2	-.00073	.00139	.00812
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	**973.08**	**4510.0**	**37368.**	**6118.0**
Stddev	1.68	5.2	146.	30.7
%RSD	.17280	.11561	.38950	.50128
#1	974.27	4513.7	37471.	6096.3
#2	971.89	4506.4	37265.	6139.7

Sample Name: 480-58844-d-1-a Acquired: 5/1/2014 11:38:57 Type: Unk
Method: ICAP 2 March 2014(v59) 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**	**.01659**	**.00547**	**.16679**	**.07758**	**-.00012**	**72.343**	**-.00023**	**-.00019**
Stddev	.00032	.01708	.00154	.00397	.00020	.00007	.784	.00005	.00004
%RSD	173.90	102.92	28.146	2.3831	.25784	59.752	1.0843	21.079	20.091
#1	.00004	.02867	.00656	.16960	.07772	-.00017	71.789	-.00020	-.00022
#2	-.00041	.00452	.00438	.16398	.07743	-.00007	72.898	-.00026	-.00016
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	**-.00051**	**.00126**	**2.5055**	**6.6337**	**.00938**	**14.702**	**2.8308**	**.00122**	**78.436**
Stddev	.00009	.00036	.0556	.0447	.00155	.027	.0135	.00035	1.349
%RSD	18.606	28.188	2.2199	.67310	16.565	.18491	.47747	28.439	1.7205
#1	-.00057	.00101	2.4662	6.6021	.01048	14.722	2.8404	.00147	77.482
#2	-.00044	.00151	2.5448	6.6652	.00828	14.683	2.8213	.00098	79.391
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**	**.00072**	**40.653**	**-.00251**	**.00057**	**7.0985**	**-.00098**	**.25565**	**.00095**
Stddev	.00036	.00047	.175	.00184	.00157	.0600	.00010	.00333	.00043
%RSD	23.463	66.244	.43129	73.329	275.27	.84500	9.7678	1.3006	45.391
#1	.00130	.00038	40.777	-.00381	-.00054	7.0561	-.00105	.25330	.00125
#2	.00181	.00105	40.529	-.00121	.00169	7.1409	-.00092	.25800	.00064
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	**.00118**	**-.00025**	**.00228**
Stddev	.00053	.00039	.00044
%RSD	44.641	157.15	19.415
#1	.00156	.00003	.00259
#2	.00081	-.00053	.00197
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	**949.79**	**4509.5**	**37092.**	**6105.8**
Stddev	.04	11.1	121.	25.9
%RSD	.00405	.24534	.32512	.42446
#1	949.82	4501.7	37006.	6124.1
#2	949.76	4517.4	37177.	6087.5

Sample Name: CCV Acquired: 5/1/2014 11:41:43 Type: QC
Method: ICAP 2 March 2014(v59) 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	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.50240**	**25.470**	**.51168**	**.50571**	**.51453**	**.50059**	**25.051**	**.50299**	**.49165**	**.50983**	**.51474**	**25.278**	**25.112**
Stddev	.00014	.230	.00266	.00363	.00224	.00535	.299	.00044	.00007	.00109	.00082	.265	.123
%RSD	.02806	.90444	.52070	.71791	.43578	1.0682	1.1927	.08808	.01501	.21359	.15884	1.0488	.48833
#1	.50230	25.633	.51356	.50828	.51294	.50437	25.262	.50268	.49160	.50906	.51416	25.465	25.198
#2	.50250	25.307	.50979	.50314	.51611	.49681	24.840	.50331	.49170	.51060	.51531	25.090	25.025
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
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	**.50879**	**25.845**	**.51800**	**.51289**	**25.012**	**.49828**	**.49515**	**24.609**	**.51340**	**.50716**	**25.081**	**.48813**	**.50332**
Stddev	.00313	.051	.00033	.00204	.207	.00096	.00059	.001	.00139	.00375	.092	.00155	.00396
%RSD	.61607	.19745	.06327	.39820	.82610	.19205	.11952	.00392	.26984	.73928	.36618	.31659	.78632
#1	.51100	25.809	.51823	.51433	25.158	.49896	.49557	24.609	.51242	.50981	25.146	.48923	.50612
#2	.50657	25.881	.51776	.51144	24.866	.49760	.49473	24.610	.51437	.50451	25.016	.48704	.50052
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
Value													
Range													

Elem	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm
Avg	**.51940**	**.49696**	**.50933**	**.51841**
Stddev	.00245	.00113	.00105	.00175
%RSD	.47241	.22695	.20643	.33798
#1	.51767	.49776	.50858	.51717
#2	.52114	.49617	.51007	.51965
Check ?	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	**964.10**	**4641.2**	**37128.**	**6014.2**
Stddev	.16	8.9	35.	73.9
%RSD	.01641	.19276	.09445	1.2282
#1	963.99	4634.9	37153.	5962.0
#2	964.21	4647.5	37103.	6066.4

Sample Name: CCB Acquired: 5/1/2014 11:44:21 Type: QC
Method: ICAP 2 March 2014(v59) 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	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00012**	**-.01950**	**-.00150**	**.00573**	**.00000**	**-.00003**	**.00310**	**-.00032**	**-.00044**	**-.00033**	**.00068**	**.00173**	**-.02062**
Stddev	.00059	.01539	.00122	.00009	.0000	.00005	.00237	.00015	.00016	.00014	.00010	.00502	.01821
%RSD	479.09	78.902	81.178	1.6224	5765.5	165.77	76.481	45.611	35.593	41.284	15.334	289.75	88.342
#1	.00029	-.00862	-.00064	.00579	.00002	-.00006	.00142	-.00022	-.00033	-.00023	.00075	.00528	-.03350
#2	-.00054	-.03039	-.00236	.00566	-.00002	.00000	.00477	-.00043	-.00055	-.00043	.00061	-.00182	-.00774
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
High Limit													
Low Limit													

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	**.00237**	**.00236**	**-.00016**	**-.00029**	**.02775**	**-.00093**	**.00041**	**-.01473**	**-.00037**	**.00202**	**-.04346**	**-.00079**	**.00000**
Stddev	.00035	.00424	.00000	.00004	.00142	.00009	.00096	.00229	.00073	.00274	.00611	.00003	.00012
%RSD	14.699	179.16	2.4226	12.358	5.1197	9.9080	230.89	15.539	197.21	135.68	14.053	3.5494	3000.2
#1	.00262	.00536	-.00016	-.00032	.02674	-.00100	.00109	-.01311	.00015	.00008	-.03914	-.00081	.00009
#2	.00213	-.00063	-.00016	-.00026	.02875	-.00087	-.00026	-.01635	-.00089	.00395	-.04778	-.00077	-.00008
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
High Limit													
Low Limit													

Elem	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm
Avg	**.00028**	**.00008**	**.00049**	**-.00007**
Stddev	.00060	.00120	.00012	.00032
%RSD	217.07	1438.1	25.572	433.29
#1	-.00015	.00093	.00040	.00015
#2	.00070	-.00076	.00057	-.00030
Check ?	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	**1039.3**	**4645.4**	**38650.**	**6142.5**
Stddev	1.2	18.2	91.	60.1
%RSD	.11620	.39087	.23570	.97923
#1	1038.4	4632.6	38714.	6185.0
#2	1040.1	4658.3	38585.	6099.9

Sample Name: 480-58844-a-2-a Acquired: 5/1/2014 11:47:11 Type: Unk
Method: ICAP 2 March 2014(v59) 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**	**.01366**	**.00284**	**.16157**	**.06449**	**-.00009**	**73.730**	**-.00044**	**-.00020**
Stddev	.00020	.00826	.00078	.00096	.00001	.00008	.193	.00013	.00002
%RSD	35.446	60.508	27.358	.59141	.00962	90.434	.26233	29.480	11.190
#1	.00043	.00781	.00229	.16224	.06449	-.00003	73.867	-.00035	-.00019
#2	.00072	.01950	.00339	.16089	.06449	-.00015	73.594	-.00054	-.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	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	**-.00009**	**.00182**	**1.9441**	**6.8649**	**.00897**	**15.055**	**2.0711**	**.00111**	**79.393**
Stddev	.00007	.00010	.0196	.0276	.00012	.023	.0042	.00006	.095
%RSD	78.536	5.7266	1.0080	.40241	1.3233	.15450	.20086	5.1586	.12022
#1	-.00014	.00189	1.9579	6.8844	.00905	15.039	2.0740	.00107	79.325
#2	-.00004	.00174	1.9302	6.8454	.00888	15.072	2.0681	.00115	79.460
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**	**-.00020**	**40.348**	**-.00229**	**.00139**	**7.0655**	**-.00032**	**.26233**	**.00080**
Stddev	.00016	.00035	.196	.00097	.00378	.0386	.00020	.00027	.00038
%RSD	12.085	172.41	.48663	42.532	271.69	.54594	61.714	.10421	47.560
#1	.00140	.00004	40.487	-.00298	.00407	7.0927	-.00018	.26252	.00053
#2	.00118	-.00044	40.210	-.00160	-.00128	7.0382	-.00046	.26213	.00107
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	**-.00055**	**-.00051**	**.00742**
Stddev	.00039	.00084	.00015
%RSD	71.381	166.60	2.0162
#1	-.00027	.00009	.00732
#2	-.00082	-.00110	.00753
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	**932.55**	**4444.7**	**36176.**	**5907.3**
Stddev	3.20	22.9	.	1.6
%RSD	.34355	.51426	.00067	.02707
#1	930.29	4428.5	36176.	5906.2
#2	934.82	4460.8	36176.	5908.4

Sample Name: 480-58844-e-4-a Acquired: 5/1/2014 11:49:56 Type: Unk
Method: ICAP 2 March 2014(v59) 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**	**.00500**	**.00144**	**.17145**	**.06351**	**-.00004**	**72.192**	**.00007**	**.00001**
Stddev	.00016	.00924	.00150	.00033	.00005	.00005	.115	.00004	.00012
%RSD	81.257	184.72	104.60	.19389	.08255	142.51	.15946	55.073	1847.7
#1	.00008	.01153	.00037	.17168	.06355	.00000	72.111	.00010	-.00008
#2	.00031	-.00153	.00250	.17121	.06347	-.00007	72.274	.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	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	**.00022**	**.00121**	**.25212**	**7.3786**	**.00946**	**14.894**	**1.8172**	**.00141**	**88.455**
Stddev	.00078	.00014	.00256	.0103	.00041	.001	.0032	.00000	.287
%RSD	349.72	11.472	1.0167	.13903	4.3539	.00456	.17850	.02208	.32460
#1	-.00033	.00131	.25031	7.3714	.00916	14.894	1.8195	.00141	88.658
#2	.00078	.00111	.25394	7.3859	.00975	14.895	1.8149	.00141	88.252
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	**.00130**	**.00005**	**41.545**	**-.00122**	**-.00150**	**7.1235**	**-.00081**	**.24946**	**.00079**
Stddev	.00027	.00104	.167	.00193	.00073	.0206	.00000	.00023	.00019
%RSD	20.764	2116.7	.40224	158.57	48.840	.28906	.57606	.09149	24.644
#1	.00149	-.00069	41.664	.00015	-.00098	7.1089	-.00081	.24962	.00065
#2	.00111	.00079	41.427	-.00259	-.00202	7.1380	-.00080	.24930	.00092
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	**-.00134**	**-.00033**	**.00352**
Stddev	.00028	.00025	.00021
%RSD	21.105	74.296	6.1016
#1	-.00114	-.00051	.00337
#2	-.00154	-.00016	.00367
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	**926.61**	**4416.4**	**36016.**	**5917.2**
Stddev	.42	7.0	18.	47.2
%RSD	.04516	.15881	.05103	.79734
#1	926.31	4411.4	36029.	5950.6
#2	926.91	4421.4	36003.	5883.9

Sample Name: 480-58849-e-1-a Acquired: 5/1/2014 11:52:40 Type: Unk
Method: ICAP 2 March 2014(v59) 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**	**.37752**	**-.00107**	**.04025**	**.02113**	**-.00004**	**18.501**	**-.00043**	**-.00010**
Stddev	.00009	.00097	.00011	.00046	.00009	.00001	.204	.00003	.00013
%RSD	30.765	.25656	10.448	1.1342	.44381	20.388	1.1016	7.8551	132.54
#1	.00034	.37820	-.00115	.04058	.02107	-.00003	18.645	-.00041	-.00020
#2	.00022	.37683	-.00099	.03993	.02120	-.00004	18.357	-.00046	-.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	**.00059**	**.00639**	**.59042**	**1.3043**	**.00388**	**5.4161**	**.04706**	**.00068**	**51.320**
Stddev	.00019	.00011	.00237	.0215	.00149	.0270	.00087	.00007	.156
%RSD	32.483	1.7844	.40070	1.6502	38.455	.49799	1.8509	10.508	.30325
#1	.00045	.00631	.59209	1.3195	.00282	5.4352	.04767	.00073	51.210
#2	.00073	.00647	.58874	1.2891	.00493	5.3971	.04644	.00063	51.430
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	**.00072**	**.00206**	**2.0980**	**.00210**	**-.00071**	**1.6881**	**-.00055**	**.04278**	**.00967**
Stddev	.00021	.00078	.0244	.00117	.00075	.0613	.00007	.00012	.00043
%RSD	29.283	37.971	1.1619	55.670	105.84	3.6289	13.689	.28135	4.4999
#1	.00057	.00151	2.1153	.00292	-.00123	1.7314	-.00049	.04287	.00997
#2	.00086	.00261	2.0808	.00127	-.00018	1.6448	-.00060	.04270	.00936
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**	**.00187**	**.05805**
Stddev	.00053	.00031	.00035
%RSD	128.91	16.540	.59871
#1	-.00079	.00165	.05829
#2	-.00004	.00208	.05780
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	**974.95**	**4562.8**	**37814.**	**6197.1**
Stddev	5.41	22.0	23.	87.8
%RSD	.55474	.48301	.06190	1.4175
#1	971.13	4547.2	37797.	6135.0
#2	978.78	4578.4	37831.	6259.2

Sample Name: 480-58849-e-2-a Acquired: 5/1/2014 11:55:25 Type: Unk
Method: ICAP 2 March 2014(v59) 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**	**.32793**	**-.00026**	**.01592**	**.01101**	**-.00010**	**6.8025**	**-.00045**	**-.00020**
Stddev	.00001	.00431	.00112	.00017	.00003	.00004	.0047	.00007	.00009
%RSD	8.5340	1.3145	425.53	1.0942	.29228	37.996	.06846	16.516	46.230
#1	.00014	.32488	-.00105	.01604	.01099	-.00008	6.7992	-.00040	-.00027
#2	.00012	.33098	.00053	.01579	.01104	-.00013	6.8057	-.00051	-.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	**.00060**	**.00597**	**.53406**	**.50711**	**.00161**	**1.9781**	**.02787**	**.00018**	**23.207**
Stddev	.00033	.00008	.01489	.01404	.00287	.0286	.00014	.00012	.244
%RSD	55.899	1.3777	2.7880	2.7680	178.17	1.4451	.50535	68.263	1.0497
#1	.00084	.00591	.54459	.49719	.00364	1.9579	.02777	.00009	23.379
#2	.00036	.00603	.52354	.51704	-.00042	1.9983	.02797	.00026	23.034
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**	**.00146**	**1.5863**	**-.00111**	**.00105**	**.99478**	**-.00028**	**.01738**	**.00755**
Stddev	.00012	.00026	.0009	.00074	.00063	.01176	.00010	.00004	.00062
%RSD	198.02	17.969	.05601	67.082	59.817	1.1820	34.985	.21551	8.2290
#1	-.00002	.00164	1.5869	-.00163	.00061	.98647	-.00021	.01741	.00711
#2	.00014	.00127	1.5856	-.00058	.00150	1.0031	-.00035	.01736	.00799
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	**-.00074**	**.00136**	**.02914**
Stddev	.00021	.00065	.00043
%RSD	28.106	47.479	1.4754
#1	-.00088	.00182	.02884
#2	-.00059	.00090	.02945
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	**1009.7**	**4626.2**	**38198.**	**6062.2**
Stddev	1.5	15.8	199.	123.2
%RSD	.14729	.34153	.51975	2.0316
#1	1010.8	4637.4	38338.	5975.1
#2	1008.7	4615.0	38057.	6149.2

Sample Name: 480-58849-e-3-a Acquired: 5/1/2014 11:58:11 Type: Unk
Method: ICAP 2 March 2014(v59) 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**	**.30328**	**-.00151**	**.04921**	**.04971**	**-.00010**	**45.957**	**-.00037**	**-.00014**
Stddev	.00017	.02220	.00188	.00032	.00111	.00006	.197	.00013	.00004
%RSD	50.917	7.3214	124.10	.65275	2.2334	61.560	.42877	36.540	28.386
#1	-.00021	.31898	-.00284	.04898	.05050	-.00006	45.818	-.00027	-.00011
#2	-.00045	.28758	-.00019	.04943	.04892	-.00015	46.097	-.00046	-.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	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	**.00034**	**.00618**	**.52144**	**1.4002**	**.00781**	**19.268**	**.04203**	**.00034**	**95.370**
Stddev	.00004	.00090	.00361	.0075	.00210	.414	.00077	.00006	.375
%RSD	12.495	14.597	.69311	.53580	26.844	2.1486	1.8340	17.475	.39314
#1	.00031	.00681	.52399	1.3948	.00632	19.561	.04258	.00038	95.105
#2	.00037	.00554	.51888	1.4055	.00929	18.976	.04149	.00030	95.635
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	**.00081**	**.00198**	**4.0210**	**-.00141**	**-.00035**	**3.4632**	**-.00032**	**.07507**	**.01069**
Stddev	.00004	.00035	.0101	.00002	.00108	.0299	.00053	.00057	.00014
%RSD	4.9837	17.592	.24993	1.6924	306.82	.86284	162.35	.76539	1.3338
#1	.00078	.00173	4.0281	-.00139	-.00111	3.4420	.00005	.07467	.01059
#2	.00084	.00222	4.0139	-.00142	.00041	3.4843	-.00070	.07548	.01079
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	**-.00148**	**.00141**	**.03513**
Stddev	.00063	.00023	.00031
%RSD	42.386	16.582	.87687
#1	-.00104	.00125	.03491
#2	-.00192	.00158	.03535
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	**932.98**	**4469.0**	**37543.**	**6135.2**
Stddev	1.66	10.3	748.	22.6
%RSD	.17830	.23101	1.9917	.36897
#1	934.15	4476.3	37015.	6119.2
#2	931.80	4461.7	38072.	6151.2

Sample Name: 480-58860-c-1-a Acquired: 5/1/2014 12:00:56 Type: Unk
Method: ICAP 2 March 2014(v59) 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**	**.68615**	**-.00165**	**.01064**	**.01928**	**-.00006**	**5.7654**	**-.00035**	**.00003**
Stddev	.00019	.02229	.00127	.00041	.00016	.00013	.0186	.00003	.00001
%RSD	150.41	3.2484	77.273	3.8968	.83718	212.63	.32197	8.6499	26.884
#1	.00026	.70191	-.00255	.01093	.01917	.00003	5.7523	-.00033	.00003
#2	-.00001	.67039	-.00075	.01035	.01940	-.00016	5.7786	-.00037	.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	**.00424**	**.00766**	**1.0855**	**.54723**	**.00239**	**.83861**	**.06225**	**-.00023**	**2.1669**
Stddev	.00060	.00020	.0089	.01651	.00002	.00750	.00006	.00007	.0054
%RSD	14.091	2.5649	.81738	3.0162	.91107	.89430	.10287	28.864	.24799
#1	.00382	.00780	1.0792	.55890	.00241	.84391	.06230	-.00018	2.1631
#2	.00467	.00752	1.0918	.53556	.00238	.83331	.06221	-.00028	2.1707
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	**.00112**	**.00782**	**.70678**	**-.00199**	**-.00046**	**1.7119**	**.00048**	**.01407**	**.04114**
Stddev	.00003	.00040	.02095	.00130	.00003	.0181	.00031	.00000	.00015
%RSD	2.3180	5.0884	2.9639	65.618	6.8874	1.0596	65.314	.01762	.35800
#1	.00114	.00810	.72159	-.00291	-.00048	1.6990	.00070	.01407	.04125
#2	.00110	.00754	.69197	-.00107	-.00044	1.7247	.00026	.01407	.04104
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**	**.00476**	**.06747**
Stddev	.00046	.00060	.00023
%RSD	37.198	12.503	.33616
#1	-.00092	.00518	.06731
#2	-.00157	.00434	.06763
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	**1015.5**	**4578.1**	**38605.**	**6148.0**
Stddev	19.3	102.1	232.	16.9
%RSD	1.9019	2.2302	.59983	.27499
#1	1001.9	4505.9	38769.	6136.1
#2	1029.2	4650.3	38441.	6160.0

Sample Name: 480-58862-c-1-a Acquired: 5/1/2014 12:03:43 Type: Unk
Method: ICAP 2 March 2014(v59) 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**	**21.005**	**.01237**	**.28499**	**.28865**	**.00104**	**82.705**	**.00170**	**.01516**
Stddev	.00042	.037	.00130	.00034	.00140	.00004	.605	.00011	.00001
%RSD	322.81	.17774	10.483	.11951	.48453	3.9648	.73205	6.5252	.07771
#1	.00042	21.031	.01329	.28523	.28964	.00107	83.133	.00162	.01517
#2	-.00017	20.979	.01145	.28475	.28766	.00102	82.277	.00178	.01515
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	**.05399**	**.15466**	**37.648**	**6.5798**	**.18590**	**53.086**	**1.9554**	**.01166**	**36.768**
Stddev	.00050	.00018	.200	.0437	.00012	.297	.0040	.00012	.225
%RSD	.92129	.11375	.52996	.66398	.06243	.56002	.20429	1.0111	.61172
#1	.05434	.15479	37.789	6.6107	.18598	53.296	1.9583	.01158	36.927
#2	.05364	.15454	37.507	6.5489	.18582	52.876	1.9526	.01174	36.609
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	**.04969**	**.06189**	**6.1234**	**-.00213**	**.00182**	**42.182**	**.00788**	**.10497**	**.65013**
Stddev	.00032	.00054	.0265	.00096	.00279	.093	.00053	.00016	.00385
%RSD	.64724	.87977	.43290	45.309	153.33	.22040	6.6991	.15179	.59176
#1	.04946	.06151	6.1422	-.00145	.00380	42.248	.00751	.10486	.65285
#2	.04992	.06228	6.1047	-.00281	-.00015	42.116	.00826	.10509	.64741
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	**.00071**	**.08064**	**.39166**
Stddev	.00124	.00026	.00462
%RSD	175.81	.32304	1.1785
#1	.00159	.08082	.39492
#2	-.00017	.08045	.38839
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	**924.28**	**4559.1**	**37658.**	**6260.7**
Stddev	5.27	13.8	146.	14.4
%RSD	.57052	.30332	.38829	.22970
#1	920.55	4549.4	37555.	6250.5
#2	928.01	4568.9	37761.	6270.9

Sample Name: 480-58855-b-1-a Acquired: 5/1/2014 12:06:26 Type: Unk
Method: ICAP 2 March 2014(v59) 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**	**11.165**	**.00369**	**.07572**	**.16841**	**.00055**	**84.725**	**-.00002**	**.00550**
Stddev	.00090	.123	.00072	.00068	.00420	.00006	1.699	.00000	.00004
%RSD	5936.6	1.1000	19.395	.89293	2.4953	10.776	2.0053	21.230	.81295
#1	-.00062	11.252	.00319	.07525	.16544	.00051	85.927	-.00002	.00553
#2	.00065	11.078	.00420	.07620	.17138	.00059	83.524	-.00002	.00547
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	**.01816**	**.01850**	**13.555**	**8.1795**	**.02682**	**21.326**	**.55302**	**.00214**	**14.388**
Stddev	.00074	.00101	.160	.1433	.00140	.472	.01360	.00007	.292
%RSD	4.0895	5.4356	1.1799	1.7523	5.2283	2.2119	2.4587	3.0932	2.0323
#1	.01764	.01778	13.668	8.2808	.02583	20.992	.54340	.00209	14.595
#2	.01869	.01921	13.442	8.0781	.02781	21.660	.56263	.00218	14.181
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	**.02026**	**.01220**	**43.547**	**-.00341**	**-.00073**	**31.417**	**.00013**	**.16225**	**.29418**
Stddev	.00038	.00075	.089	.00061	.00246	.477	.00048	.00208	.00851
%RSD	1.8651	6.1626	.20335	17.754	335.42	1.5190	359.44	1.2824	2.8939
#1	.02052	.01273	43.485	-.00384	-.00248	31.755	-.00021	.16372	.28816
#2	.01999	.01167	43.610	-.00298	.00101	31.080	.00047	.16078	.30020
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	**-.00111**	**.04530**	**.06041**
Stddev	.00031	.00075	.00100
%RSD	28.312	1.6588	1.6620
#1	-.00133	.04477	.05970
#2	-.00089	.04583	.06111
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	**938.21**	**4512.7**	**37297.**	**6281.1**
Stddev	4.02	.2	769.	65.1
%RSD	.42846	.00459	2.0611	1.0371
#1	935.37	4512.6	37840.	6235.1
#2	941.06	4512.9	36753.	6327.2

Sample Name: 480-58855-b-1-b ms Acquired: 5/1/2014 12:09:18 Type: Unk
Method: ICAP 2 March 2014(v59) 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	**.05098**	**29.594**	**.22227**	**.28791**	**.40601**	**.20422**	**96.333**	**.20310**	**.20617**
Stddev	.00056	.001	.00029	.00097	.00174	.00084	.292	.00019	.00008
%RSD	1.1050	.00483	.13193	.33643	.42880	.41339	.30340	.09414	.03832
#1	.05058	29.593	.22248	.28723	.40478	.20482	96.540	.20297	.20622
#2	.05137	29.595	.22207	.28860	.40725	.20363	96.127	.20324	.20611
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	**.22579**	**.22644**	**26.422**	**19.272**	**.23487**	**31.907**	**.75167**	**.20268**	**24.742**
Stddev	.00064	.00054	.061	.085	.00037	.005	.00084	.00056	.075
%RSD	.28307	.23847	.23263	.44190	.15780	.01462	.11173	.27626	.30126
#1	.22534	.22605	26.465	19.332	.23461	31.910	.75227	.20228	24.795
#2	.22625	.22682	26.378	19.211	.23513	31.903	.75108	.20308	24.689
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	**.21942**	**.21513**	**52.983**	**.19772**	**.21080**	**54.162**	**.19642**	**.36715**	**.58043**
Stddev	.00007	.00199	.028	.00125	.00226	.119	.00103	.00066	.00090
%RSD	.03249	.92275	.05203	.63100	1.0718	.21960	.52464	.18054	.15530
#1	.21937	.21372	52.964	.19860	.20920	54.246	.19569	.36761	.57980
#2	.21947	.21653	53.002	.19684	.21240	54.077	.19715	.36668	.58107
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	**.19991**	**.27164**	**.26448**
Stddev	.00193	.00093	.00073
%RSD	.96722	.34061	.27747
#1	.19855	.27099	.26500
#2	.20128	.27230	.26396
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	**917.41**	**4513.7**	**37043.**	**6141.5**
Stddev	1.30	4.2	59.	24.9
%RSD	.14183	.09357	.16045	.40490
#1	916.49	4510.7	37001.	6123.9
#2	918.33	4516.7	37085.	6159.1

Sample Name: 480-58855-b-1-c msd Acquired: 5/1/2014 12:11:54 Type: Unk
Method: ICAP 2 March 2014(v59) 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	.05126	28.549	.21994	.28676	.39752	.20360	94.140	.20402	.20684
Stddev	.00008	.137	.00000	.00258	.00115	.00082	.446	.00238	.00243
%RSD	.16307	.47948	.00005	.90131	.29041	.40263	.47427	1.1689	1.1725
#1	.05132	28.646	.21994	.28859	.39834	.20418	94.456	.20570	.20856
#2	.05120	28.452	.21994	.28493	.39671	.20302	93.824	.20233	.20513
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	.22406	.22402	25.311	18.958	.23308	31.183	.73417	.20424	24.378
Stddev	.00024	.00045	.237	.033	.00001	.003	.00004	.00274	.130
%RSD	.10570	.20052	.93715	.17466	.00360	.00906	.00610	1.3396	.53401
#1	.22389	.22434	25.478	18.981	.23308	31.181	.73421	.20618	24.470
#2	.22423	.22371	25.143	18.934	.23307	31.185	.73414	.20231	24.286
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	.21956	.21238	52.315	.20120	.21402	50.431	.19723	.36255	.55729
Stddev	.00192	.00227	.522	.00178	.00697	.115	.00207	.00181	.00115
%RSD	.87496	1.0669	.99733	.88486	3.2583	.22780	1.0503	.49829	.20584
#1	.22092	.21398	52.684	.19994	.21895	50.512	.19869	.36383	.55810
#2	.21820	.21078	51.946	.20246	.20909	50.349	.19576	.36127	.55648
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	.19954	.26690	.26020
Stddev	.00194	.00079	.00142
%RSD	.97010	.29633	.54637
#1	.20091	.26746	.25919
#2	.19817	.26635	.26120
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	923.21	4540.1	37516.	6274.0
Stddev	8.54	38.4	44.	17.2
%RSD	.92550	.84544	.11797	.27438
#1	917.17	4513.0	37485.	6261.9
#2	929.25	4567.3	37548.	6286.2

Sample Name: CCV Acquired: 5/1/2014 12:14:32 Type: QC
Method: ICAP 2 March 2014(v59) 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	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.50154**	**25.032**	**.50697**	**.49704**	**.51606**	**.49074**	**24.565**	**.49962**	**.48891**	**.50959**	**.51570**	**24.851**	**24.708**
Stddev	.00225	.277	.00289	.00101	.00182	.00504	.295	.00221	.00132	.00076	.00190	.227	.283
%RSD	.44781	1.1071	.57073	.20296	.35346	1.0276	1.2015	.44257	.27085	.14934	.36836	.91440	1.1469
#1	.50312	25.227	.50901	.49775	.51477	.49430	24.774	.50119	.48797	.50906	.51435	25.012	24.908
#2	.49995	24.836	.50492	.49632	.51735	.48717	24.357	.49806	.48985	.51013	.51704	24.691	24.507
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
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	**.50282**	**25.855**	**.51835**	**.51068**	**24.640**	**.49704**	**.49277**	**24.430**	**.51610**	**.50455**	**25.133**	**.48472**	**.49590**
Stddev	.00152	.026	.00040	.00219	.206	.00221	.00011	.049	.00161	.00093	.067	.00169	.00508
%RSD	.30217	.09958	.07707	.42955	.83485	.44559	.02151	.19923	.31170	.18514	.26743	.34780	1.0249
#1	.50389	25.873	.51807	.51223	24.786	.49861	.49284	24.464	.51497	.50389	25.181	.48591	.49950
#2	.50175	25.837	.51864	.50913	24.495	.49547	.49269	24.395	.51724	.50521	25.086	.48353	.49231
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
Value													
Range													

Elem	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm
Avg	**.52085**	**.49273**	**.51092**	**.51864**
Stddev	.00059	.00002	.00037	.00031
%RSD	.11236	.00472	.07169	.06029
#1	.52044	.49274	.51118	.51886
#2	.52127	.49271	.51066	.51841
Check ?	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	**965.17**	**4634.5**	**37037.**	**6104.2**
Stddev	5.27	19.5	6.	46.1
%RSD	.54597	.41977	.01736	.75506
#1	961.44	4620.7	37032.	6071.6
#2	968.89	4648.2	37041.	6136.8

Sample Name: CCB Acquired: 5/1/2014 12:17:10 Type: QC
Method: ICAP 2 March 2014(v59) 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	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00007**	**.00382**	**-.00058**	**.00073**	**.00003**	**-.00005**	**-.00049**	**-.00048**	**-.00044**	**-.00003**	**.00047**	**.00183**	**-.03524**
Stddev	.00006	.00766	.00111	.00033	.00002	.00009	.00266	.00006	.00018	.00058	.00002	.00336	.01200
%RSD	90.550	200.58	192.47	45.187	54.423	178.99	547.71	13.033	40.637	1723.8	5.0887	183.72	34.065
#1	-.00002	.00924	.00021	.00096	.00005	.00001	.00140	-.00053	-.00057	.00038	.00045	-.00055	-.04372
#2	-.00011	-.00160	-.00137	.00049	.00002	-.00011	-.00237	-.00044	-.00032	-.00044	.00049	.00421	-.02675
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
High Limit													
Low Limit													

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	**.00167**	**.00371**	**-.00007**	**-.00011**	**.01069**	**-.00054**	**.00020**	**-.01652**	**-.00116**	**-.00008**	**-.02325**	**-.00087**	**.00005**
Stddev	.00124	.00797	.00002	.00011	.01386	.00012	.00012	.00381	.00130	.00086	.00614	.00018	.00006
%RSD	74.274	214.76	24.128	94.335	129.61	21.522	59.070	23.045	111.98	1045.4	26.417	20.619	129.13
#1	.00079	-.00193	-.00005	-.00019	.00089	-.00046	.00012	-.01922	-.00208	.00053	-.02760	-.00100	.00009
#2	.00255	.00935	-.00008	-.00004	.02050	-.00063	.00029	-.01383	-.00024	-.00069	-.01891	-.00075	.00000
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
High Limit													
Low Limit													

Elem	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm
Avg	**.00037**	**.00043**	**.00045**	**-.00010**
Stddev	.00019	.00032	.00003	.00016
%RSD	51.170	73.977	6.1683	165.47
#1	.00023	.00021	.00047	.00002
#2	.00050	.00066	.00043	-.00021
Check ?	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	**1046.4**	**4681.2**	**39128.**	**6195.8**
Stddev	2.2	8.1	147.	4.4
%RSD	.20904	.17197	.37458	.07151
#1	1047.9	4675.5	39024.	6198.9
#2	1044.8	4686.9	39232.	6192.7

Sample Name: 480-58855-b-2-a Acquired: 5/1/2014 12:20:01 Type: Unk
Method: ICAP 2 March 2014(v59) 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**	**4.2461**	**.00279**	**.18635**	**.10794**	**.00008**	**81.355**	**-.00028**	**.00157**
Stddev	.00003	.0223	.00018	.00108	.00011	.00002	.220	.00004	.00005
%RSD	10.551	.52545	6.6380	.58008	.10315	23.638	.26998	13.502	3.3620
#1	.00028	4.2619	.00292	.18711	.10786	.00007	81.510	-.00030	.00161
#2	.00032	4.2303	.00266	.18559	.10802	.00009	81.199	-.00025	.00154
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	**.00702**	**.00739**	**5.5011**	**4.5559**	**.01829**	**24.709**	**.17475**	**.00601**	**6.3573**
Stddev	.00037	.00033	.0177	.0563	.00112	.063	.00161	.00008	.0011
%RSD	5.2413	4.5002	.32094	1.2350	6.1443	.25653	.92300	1.3926	.01662
#1	.00728	.00715	5.4886	4.5161	.01750	24.664	.17361	.00595	6.3581
#2	.00676	.00762	5.5136	4.5956	.01909	24.754	.17589	.00607	6.3566
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	**.00636**	**.00527**	**22.600**	**-.00224**	**-.00036**	**18.672**	**-.00057**	**.17113**	**.10768**
Stddev	.00077	.00165	.160	.00004	.00143	.023	.00001	.00022	.00124
%RSD	12.032	31.404	.70978	1.9010	401.47	.12487	1.1080	.13035	1.1540
#1	.00690	.00410	22.713	-.00227	-.00137	18.655	-.00057	.17098	.10855
#2	.00582	.00644	22.486	-.00221	.00065	18.688	-.00057	.17129	.10680
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	**-.00057**	**.01964**	**.02878**
Stddev	.00052	.00002	.00023
%RSD	92.086	.11831	.80286
#1	-.00094	.01966	.02894
#2	-.00020	.01962	.02862
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	**959.44**	**4558.1**	**37641.**	**6103.3**
Stddev	5.49	23.9	89.	4.9
%RSD	.57186	.52367	.23751	.08044
#1	955.56	4541.2	37704.	6099.9
#2	963.32	4575.0	37577.	6106.8

Sample Name: 480-58841-e-1-a Acquired: 5/1/2014 12:22:43 Type: Unk
Method: ICAP 2 March 2014(v59) 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	**.00184**	**5.3256**	**.09658**	F **18.811**	**.15284**	**.00010**	**90.430**	**-.00002**	**.00965**
Stddev	.00001	.0595	.00084	.026	.00047	.00006	.139	.00017	.00008
%RSD	.75586	1.1168	.87350	.13905	.30660	53.864	.15393	869.56	.84539
#1	.00183	5.2835	.09599	18.793	.15251	.00014	90.529	.00010	.00959
#2	.00185	5.3676	.09718	18.830	.15317	.00006	90.332	-.00014	.00970
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				18.000					
Low Limit				-.02000					

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	**.09990**	**.00676**	**.79299**	**213.90**	**.06590**	**57.504**	**.28252**	**.00615**	**4103.7**
Stddev	.00006	.00004	.00184	.37	.00103	.006	.00027	.00018	6.5
%RSD	.06367	.66455	.23189	.17262	1.5611	.01083	.09702	2.9204	.15944
#1	.09986	.00679	.79169	214.16	.06517	57.500	.28233	.00627	4108.3
#2	.09995	.00673	.79429	213.63	.06662	57.508	.28271	.00602	4099.1
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	**.13178**	**.00151**	**590.10**	**.04399**	**.01136**	**6.9565**	**.01010**	**.56853**	**.20434**
Stddev	.00009	.00009	.55	.00064	.00266	.1193	.00051	.00087	.00110
%RSD	.06522	5.6738	.09385	1.4557	23.424	1.7144	5.0344	.15316	.53717
#1	.13184	.00157	589.71	.04444	.01324	6.8722	.01046	.56915	.20356
#2	.13172	.00145	590.49	.04354	.00948	7.0409	.00975	.56792	.20511
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	**-.00504**	**.13529**	**.09204**
Stddev	.00142	.00014	.00105
%RSD	28.133	.10022	1.1386
#1	-.00404	.13539	.09130
#2	-.00605	.13519	.09278
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	**683.71**	**3851.0**	**30297.**	**5923.8**
Stddev	2.21	3.5	38.	24.9
%RSD	.32353	.09164	.12681	.42018
#1	682.15	3848.5	30325.	5906.2
#2	685.28	3853.5	30270.	5941.4

Sample Name: 480-58852-d-1-a Acquired: 5/1/2014 12:25:33 Type: Unk
Method: ICAP 2 March 2014(v59) 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	**.00092**	**.64201**	**.14756**	**6.2095**	**.39470**	**.00003**	**515.51**	**.00059**	**.04553**
Stddev	.00062	.01746	.00058	.0133	.00117	.00003	12.06	.00004	.00003
%RSD	67.688	2.7198	.39274	.21373	.29728	92.756	2.3399	6.7848	.06720
#1	.00136	.65436	.14797	6.2189	.39553	.00006	506.98	.00056	.04551
#2	.00048	.62966	.14715	6.2001	.39387	.00001	524.04	.00062	.04555
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	**.27230**	**.00947**	**40.953**	**302.17**	**.21191**	**101.01**	**4.5996**	**.01556**	**1175.0**
Stddev	.00130	.00028	.331	2.32	.00087	.27	.0065	.00028	9.6
%RSD	.47805	2.9159	.80903	.76818	.41088	.26422	.14064	1.8040	.81659
#1	.27138	.00967	40.719	300.53	.21253	101.20	4.6042	.01576	1168.2
#2	.27322	.00928	41.188	303.81	.21130	100.82	4.5950	.01536	1181.7
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	**.45373**	**.00187**	**116.01**	**.01537**	**.00874**	**12.143**	**.02775**	**4.5992**	**.24992**
Stddev	.00224	.00025	.26	.00027	.00240	.060	.00083	.0342	.00288
%RSD	.49302	13.502	.22101	1.7501	27.477	.49391	2.9733	.74335	1.1541
#1	.45531	.00205	116.20	.01518	.01043	12.101	.02833	4.5750	.24788
#2	.45215	.00169	115.83	.01556	.00704	12.186	.02716	4.6234	.25196
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**	**.33855**	**.27212**
Stddev	.00066	.00161	.00086
%RSD	15.500	.47579	.31623
#1	-.00376	.33741	.27151
#2	-.00469	.33969	.27272
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	**740.51**	**3927.3**	**32110.**	**5862.0**
Stddev	2.26	9.2	6.	90.4
%RSD	.30483	.23396	.01974	1.5427
#1	738.91	3920.8	32106.	5925.9
#2	742.11	3933.7	32114.	5798.0

Sample Name: 480-58594-2 SOL RAW Acquired: 5/1/2014 12:28:25 Type: Unk
Method: ICAP 2 March 2014(v59) 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**	**-.00634**	**.00284**	**.13344**	**.14044**	**-.00008**	**124.07**	**-.00044**	**.00014**
Stddev	.00009	.00970	.00053	.00039	.00021	.00004	1.23	.00010	.00010
%RSD	37.544	153.06	18.524	.29506	.15183	42.921	.99137	23.740	69.988
#1	-.00017	.00052	.00247	.13372	.14029	-.00011	124.94	-.00036	.00007
#2	-.00030	-.01319	.00322	.13316	.14059	-.00006	123.20	-.00051	.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	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	**-.00072**	**.00379**	**.04649**	**5.7893**	**.03335**	**71.765**	**.03286**	**.00328**	**25.366**
Stddev	.00045	.00031	.01497	.0431	.00152	.264	.00006	.00012	.519
%RSD	63.246	8.2739	32.189	.74467	4.5616	.36794	.17274	3.6372	2.0464
#1	-.00104	.00401	.05708	5.8198	.03442	71.952	.03282	.00337	25.733
#2	-.00040	.00357	.03591	5.7588	.03227	71.578	.03290	.00320	24.999
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	**.00332**	**-.00008**	**62.855**	**-.00262**	**.00020**	**6.9429**	**-.00073**	**.65527**	**.00157**
Stddev	.00052	.00051	.489	.00174	.00050	.0027	.00025	.00519	.00082
%RSD	15.771	611.86	.77761	66.196	257.02	.03913	34.289	.79177	52.231
#1	.00369	-.00044	62.509	-.00139	-.00016	6.9448	-.00055	.65894	.00215
#2	.00295	.00028	63.201	-.00385	.00055	6.9410	-.00091	.65160	.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	**.00163**	**.00001**	**.14241**
Stddev	.00130	.00046	.00065
%RSD	79.743	4481.5	.45916
#1	.00255	-.00031	.14195
#2	.00071	.00033	.14288
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	**942.80**	**4491.4**	**36944.**	**5977.2**
Stddev	7.81	44.7	62.	35.3
%RSD	.82883	.99532	.16683	.59103
#1	948.32	4523.0	36988.	5952.3
#2	937.27	4459.8	36901.	6002.2

Sample Name: 480-58594-4 SOL RAW Acquired: 5/1/2014 12:31:11 Type: Unk
Method: ICAP 2 March 2014(v59) 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**	**.00512**	**.10526**	**.15645**	**.14852**	**.00000**	**148.16**	**.00015**	**.00464**
Stddev	.00036	.05899	.00007	.00034	.00017	.00009	.63	.00025	.00007
%RSD	74.644	1152.3	.06656	.21426	.11208	4852.2	.42820	164.90	1.4226
#1	-.00073	.04683	.10531	.15669	.14840	.00007	148.60	.00033	.00459
#2	-.00023	-.03659	.10521	.15621	.14864	-.00006	147.71	-.00003	.00468
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	**-.00056**	**.00156**	**18.076**	**3.4575**	**.02905**	**89.840**	**.08819**	**.00852**	**43.426**
Stddev	.00029	.00025	.104	.0193	.00264	.006	.00011	.00041	.059
%RSD	51.584	16.288	.57391	.55705	9.0927	.00682	.12512	4.8124	.13557
#1	-.00076	.00138	18.149	3.4712	.03091	89.836	.08811	.00881	43.468
#2	-.00036	.00174	18.002	3.4439	.02718	89.845	.08827	.00823	43.385
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	**.00799**	**.00006**	**48.246**	**-.00453**	**-.00098**	**11.913**	**-.00046**	**.26625**	**.00084**
Stddev	.00037	.00246	.018	.00015	.00245	.056	.00004	.00016	.00007
%RSD	4.5780	3918.0	.03827	3.3472	249.57	.46999	7.8332	.05865	7.8488
#1	.00825	.00180	48.259	-.00464	-.00272	11.952	-.00044	.26636	.00089
#2	.00773	-.00168	48.233	-.00442	.00075	11.873	-.00049	.26614	.00079
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	**.00154**	**.00000**	**.00191**
Stddev	.00080	.0004	.00043
%RSD	51.767	74958.	22.245
#1	.00098	-.00030	.00161
#2	.00211	.00030	.00221
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	**913.32**	**4409.1**	**36558.**	**6106.1**
Stddev	1.08	12.2	206.	40.5
%RSD	.11869	.27744	.56430	.66303
#1	914.08	4417.7	36703.	6077.4
#2	912.55	4400.4	36412.	6134.7

Sample Name: 480-58597-1 SOL RAW Acquired: 5/1/2014 12:33:53 Type: Unk
Method: ICAP 2 March 2014(v59) 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	**.00046**	**.00866**	**.00966**	**12.198**	**1.3787**	**-.00003**	**190.67**	**-.00060**	**.02079**
Stddev	.00026	.04820	.00050	.021	.0105	.00001	1.44	.00009	.00000
%RSD	56.452	556.42	5.1583	.17172	.76389	41.342	.75712	15.870	.02246
#1	.00028	-.02542	.00931	12.212	1.3712	-.00004	189.65	-.00053	.02080
#2	.00064	.04274	.01002	12.183	1.3861	-.00002	191.69	-.00066	.02079
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	**.00607**	**.00273**	**31.403**	**135.63**	**.03799**	**195.32**	**.76767**	**.00035**	**471.61**
Stddev	.00056	.00037	.127	.64	.00125	.05	.00246	.00017	3.64
%RSD	9.1769	13.405	.40386	.46971	3.2777	.02781	.32019	48.741	.77276
#1	.00646	.00299	31.313	135.18	.03887	195.36	.76940	.00023	469.03
#2	.00567	.00247	31.493	136.08	.03711	195.28	.76593	.00048	474.19
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	**.04284**	**-.00060**	**36.564**	**-.00376**	**.01607**	**13.066**	**.00336**	**3.5846**	**.00160**
Stddev	.00041	.00037	.085	.00199	.00163	.215	.00041	.0299	.00028
%RSD	.95079	62.267	.23329	52.833	10.139	1.6481	12.155	.83324	17.468
#1	.04255	-.00086	36.625	-.00516	.01722	12.914	.00307	3.5634	.00140
#2	.04312	-.00034	36.504	-.00236	.01492	13.219	.00365	3.6057	.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	**-.00527**	**.00257**	**.01330**
Stddev	.00088	.00016	.00014
%RSD	16.705	6.3869	1.0770
#1	-.00589	.00245	.01340
#2	-.00465	.00268	.01320
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	**814.13**	**4145.7**	**34075.**	**6145.4**
Stddev	4.16	4.9	48.	68.8
%RSD	.51140	.11786	.14096	1.1196
#1	817.07	4149.2	34109.	6194.1
#2	811.19	4142.3	34041.	6096.8

Sample Name: 480-58513-2 SOL RAW Acquired: 5/1/2014 12:36:47 Type: Unk
Method: ICAP 2 March 2014(v59) 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**	**-.02041**	**-.00058**	**.11540**	**.08269**	**-.00019**	**150.45**	**-.00047**	**.00125**
Stddev	.00091	.02543	.00028	.00331	.00067	.00004	1.13	.00002	.00007
%RSD	389.76	124.60	47.674	2.8670	.80838	22.624	.75015	3.7476	5.9455
#1	.00088	-.03839	-.00038	.11774	.08316	-.00022	151.25	-.00048	.00119
#2	-.00041	-.00243	-.00077	.11306	.08222	-.00016	149.65	-.00046	.00130
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	**.00004**	**.00238**	**.10140**	**4.1112**	**.03855**	**86.708**	**.09152**	**.00126**	**71.746**
Stddev	.00004	.00023	.00150	.0024	.00027	.885	.00081	.00012	.068
%RSD	87.958	9.4652	1.4767	.05925	.70584	1.0207	.88016	9.1104	.09519
#1	.00002	.00254	.10034	4.1129	.03836	87.334	.09209	.00135	71.795
#2	.00007	.00222	.10246	4.1095	.03874	86.082	.09095	.00118	71.698
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	**.01112**	**.00038**	**53.889**	**-.00271**	**.00208**	**8.1638**	**.00002**	**.37770**	**.00142**
Stddev	.00006	.00100	.609	.00031	.00312	.0083	.00033	.00211	.00012
%RSD	.49710	264.86	1.1296	11.303	149.44	.10232	1558.7	.55819	8.0714
#1	.01108	.00108	54.319	-.00293	-.00012	8.1697	.00026	.37919	.00134
#2	.01116	-.00033	53.458	-.00250	.00429	8.1579	-.00021	.37621	.00151
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	**.00050**	**-.00010**	**.00186**
Stddev	.00005	.00028	.00009
%RSD	9.3557	285.30	5.0039
#1	.00046	-.00030	.00180
#2	.00053	.00010	.00193
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	**898.61**	**4352.9**	**37087.**	**6049.5**
Stddev	1.51	14.5	261.	31.6
%RSD	.16771	.33234	.70327	.52169
#1	897.55	4342.7	36903.	6027.2
#2	899.68	4363.1	37272.	6071.8

Sample Name: 480-58728-10 SOL RAW Acquired: 5/1/2014 12:39:32 Type: Unk
Method: ICAP 2 March 2014(v59) 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**	**.00211**	**-.00067**	**.02816**	**.01151**	**-.00004**	**21.595**	**-.00082**	**-.00036**
Stddev	.00002	.00032	.00122	.00073	.00013	.00008	.151	.00003	.00005
%RSD	3.7998	15.131	182.49	2.5831	1.1004	214.90	.70014	3.3807	14.812
#1	.00061	.00234	.00019	.02867	.01142	-.00010	21.702	-.00080	-.00040
#2	.00064	.00189	-.00153	.02764	.01160	.00002	21.488	-.00084	-.00032
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**	**.00542**	**.00764**	**.74408**	**.00636**	**9.1055**	**.00006**	**.00015**	**6.5637**
Stddev	.00033	.00024	.00119	.00679	.00079	.0444	.00001	.00018	.0549
%RSD	21.099	4.4817	15.562	.91306	12.437	.48758	13.048	119.84	.83579
#1	.00134	.00559	.00848	.73928	.00580	9.0741	.00005	.00002	6.6025
#2	.00181	.00525	.00680	.74889	.00692	9.1369	.00006	.00027	6.5249
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**	**.00102**	**2.1882**	**-.00328**	**.00331**	**16.851**	**-.00071**	**.03520**	**.00105**
Stddev	.00042	.00076	.0002	.00085	.00007	.025	.00001	.00016	.00059
%RSD	645.49	74.598	.00801	25.935	2.1639	.14928	1.2695	.44670	56.213
#1	.00023	.00048	2.1883	-.00388	.00326	16.833	-.00070	.03532	.00063
#2	-.00036	.00156	2.1881	-.00268	.00336	16.869	-.00071	.03509	.00146
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	**.00025**	**.00184**	**.00376**
Stddev	.00013	.00034	.00026
%RSD	51.857	18.588	7.0390
#1	.00016	.00209	.00357
#2	.00034	.00160	.00395
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	**1016.7**	**4605.1**	**37826.**	**5990.2**
Stddev	6.7	17.4	360.	36.4
%RSD	.66189	.37775	.95116	.60691
#1	1021.4	4617.4	38081.	5964.5
#2	1011.9	4592.8	37572.	6015.9

Sample Name: 480-58728-18 SOL RAW Acquired: 5/1/2014 12:42:18 Type: Unk
Method: ICAP 2 March 2014(v59) 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**	**.01027**	**-.00191**	**.01825**	**.01687**	**-.00012**	**26.401**	**-.00060**	**.00179**
Stddev	.00087	.00486	.00137	.00049	.00000	.00003	.247	.00018	.00002
%RSD	170.55	47.311	71.712	2.6714	.02576	27.623	.93543	29.631	.84505
#1	.00010	.00684	-.00287	.01859	.01687	-.00010	26.575	-.00048	.00180
#2	-.00112	.01371	-.00094	.01790	.01687	-.00014	26.226	-.00073	.00178
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	**.00036**	**.00370**	**-.00078**	**.69120**	**.00508**	**13.257**	**.00002**	**-.00035**	**4.0837**
Stddev	.00000	.00003	.00460	.02643	.00220	.029	.00014	.00021	.0075
%RSD	1.0623	.67915	590.65	3.8235	43.387	.22242	780.25	60.411	.18402
#1	.00036	.00372	.00247	.70989	.00664	13.278	.00012	-.00050	4.0890
#2	.00036	.00369	-.00403	.67252	.00352	13.237	-.00008	-.00020	4.0784
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**	**.00100**	**.46829**	**-.00239**	**.00099**	**11.686**	**-.00098**	**.04579**	**.00120**
Stddev	.00001	.00006	.00386	.00036	.00082	.122	.00025	.00022	.00025
%RSD	4.1512	6.3208	.82366	14.935	82.873	1.0432	25.428	.47041	20.634
#1	.00025	.00096	.47102	-.00264	.00157	11.772	-.00116	.04595	.00138
#2	.00027	.00105	.46556	-.00214	.00041	11.600	-.00081	.04564	.00103
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**	**.00437**	**.16271**
Stddev	.00002	.00039	.00015
%RSD	30.418	8.9580	.09281
#1	-.00008	.00465	.16260
#2	-.00005	.00409	.16282
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	**1017.9**	**4624.2**	**38029.**	**6097.6**
Stddev	1.2	3.9	91.	44.0
%RSD	.11978	.08414	.23992	.72205
#1	1018.7	4621.5	38094.	6066.5
#2	1017.0	4627.0	37965.	6128.7

Sample Name: BLANK Acquired: 5/1/2014 12:45:04 Type: Unk
Method: ICAP 2 March 2014(v59) 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**	**-.00475**	**-.00161**	**.01532**	**.00034**	**-.00013**	**.02840**	**.00041**	**-.00084**
Stddev	.00018	.00917	.00229	.00022	.00001	.00007	.00131	.00005	.00008
%RSD	66.369	193.22	142.78	1.4144	2.7125	56.238	4.6210	13.068	10.114
#1	.00040	.00174	-.00323	.01548	.00035	-.00008	.02748	.00044	-.00090
#2	.00014	-.01123	.00002	.01517	.00033	-.00018	.02933	.00037	-.00078
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	**-.00022**	**.00090**	**.08650**	**.03285**	**-.00185**	**.00368**	**-.00020**	**.00053**	**.14675**
Stddev	.00030	.00050	.02944	.02871	.00008	.00069	.00006	.00060	.00077
%RSD	135.50	56.022	34.036	87.396	4.2600	18.869	31.098	112.58	.52678
#1	-.00001	.00126	.06568	.05315	-.00191	.00417	-.00025	.00011	.14621
#2	-.00043	.00054	.10732	.01255	-.00180	.00319	-.00016	.00096	.14730
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	**.00002**	**.00065**	**-.00338**	**.00037**	**-.00055**	**.00334**	**.00004**	**-.00002**	**.00009**
Stddev	.00013	.00122	.00035	.00074	.00668	.00022	.00021	.00012	.00000
%RSD	855.31	188.60	10.389	198.85	1222.2	6.7223	500.49	683.12	4.9394
#1	.00011	.00151	-.00363	.00089	.00418	.00350	-.00011	.00007	.00009
#2	-.00008	-.00022	-.00313	-.00015	-.00527	.00318	.00019	-.00010	.00009
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**	**.00031**	**.00457**
Stddev	.00042	.00046	.00028
%RSD	6.9359	149.55	6.0395
#1	-.00577	.00064	.00477
#2	-.00637	-.00002	.00438
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	**973.02**	**4078.3**	**35885.**	**5791.7**
Stddev	1.36	20.1	51.	21.4
%RSD	.14000	.49404	.14074	.36932
#1	972.06	4064.0	35920.	5776.5
#2	973.99	4092.5	35849.	5806.8

Sample Name: CCV Acquired: 5/1/2014 12:47:55 Type: QC
Method: ICAP 2 March 2014(v59) 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	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.50194**	**25.805**	**.52144**	**.51275**	**.51748**	**.50353**	**25.443**	**.51204**	**.49744**	**.51158**	**.51566**	**25.624**	**25.502**
Stddev	.00247	.218	.00109	.00228	.00215	.00479	.264	.00022	.00028	.00119	.00011	.198	.224
%RSD	.49258	.84442	.20915	.44460	.41535	.95079	1.0391	.04285	.05547	.23234	.02185	.77453	.88022
#1	.50019	25.959	.52067	.51114	.51596	.50692	25.630	.51188	.49763	.51073	.51558	25.764	25.661
#2	.50369	25.651	.52221	.51436	.51900	.50015	25.256	.51219	.49724	.51242	.51574	25.484	25.343
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
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	**.51431**	**25.921**	**.51723**	**.52435**	**25.367**	**.50631**	**.50468**	**25.018**	**.52737**	**.51112**	**25.495**	**.49763**	**.50843**
Stddev	.00254	.038	.00044	.00089	.253	.00187	.00016	.051	.00080	.00450	.041	.00045	.00344
%RSD	.49391	.14825	.08571	.17051	.99901	.37007	.03084	.20545	.15218	.87981	.16049	.09119	.67676
#1	.51251	25.893	.51691	.52499	25.546	.50764	.50457	24.982	.52794	.50794	25.466	.49795	.51086
#2	.51610	25.948	.51754	.52372	25.188	.50499	.50479	25.054	.52680	.51430	25.524	.49731	.50599
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
Value													
Range													

Elem	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm
Avg	**.52100**	**.50542**	**.51282**	**.52347**
Stddev	.00070	.00269	.00105	.00179
%RSD	.13399	.53266	.20469	.34163
#1	.52149	.50352	.51208	.52474
#2	.52050	.50732	.51356	.52221
Check ?	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	**966.54**	**4625.3**	**38235.**	**6094.1**
Stddev	4.80	28.3	277.	46.2
%RSD	.49702	.61265	.72318	.75845
#1	969.94	4645.3	38430.	6061.4
#2	963.14	4605.2	38039.	6126.7

Sample Name: CCB Acquired: 5/1/2014 12:50:33 Type: QC
Method: ICAP 2 March 2014(v59) 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	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00020	-.01322	-.00089	.00495	.00003	-.00015	.03220	-.00049	-.00042	-.00017	.00036	.00398	.05485
Stddev	.00078	.02516	.00033	.00032	.00000	.00007	.01657	.00010	.00013	.00002	.00040	.00019	.01083
%RSD	393.58	190.30	36.658	6.5027	.52203	43.166	51.467	20.701	30.537	13.602	110.11	4.7161	19.738
#1	.00075	.00457	-.00066	.00518	.00003	-.00011	.02048	-.00042	-.00051	-.00019	.00065	.00412	.04720
#2	-.00035	-.03101	-.00112	.00472	.00003	-.00020	.04392	-.00056	-.00033	-.00015	.00008	.00385	.06251
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
High Limit													
Low Limit													

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	.00205	.00789	-.00001	-.00019	.19908	-.00056	-.00051	-.00779	-.00002	-.00079	-.02977	-.00109	.00018
Stddev	.00129	.00416	.00006	.00020	.03574	.00002	.00016	.00309	.00092	.00123	.01516	.00014	.00003
%RSD	62.913	52.686	434.93	103.17	17.950	3.1006	31.231	39.622	4002.1	155.11	50.920	12.546	16.504
#1	.00296	.01082	.00003	-.00033	.17381	-.00057	-.00063	-.00561	.00063	-.00166	-.01905	-.00119	.00016
#2	.00114	.00495	-.00005	-.00005	.22435	-.00055	-.00040	-.00998	-.00068	.00008	-.04049	-.00099	.00021
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
High Limit													
Low Limit													

Elem	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm
Avg	.00065	-.00090	.00048	.00018
Stddev	.00011	.00075	.00009	.00024
%RSD	17.145	83.192	19.520	128.57
#1	.00057	-.00037	.00041	.00002
#2	.00073	-.00144	.00054	.00035
Check ?	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	1059.4	4726.6	39572.	6182.9
Stddev	2.2	3.4	97.	2.7
%RSD	.20989	.07266	.24498	.04387
#1	1057.8	4729.0	39641.	6180.9
#2	1060.9	4724.1	39504.	6184.8

Sample Name: CCVL Acquired: 5/1/2014 12:53:23 Type: QC
Method: ICAP 2 March 2014(v59) 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**	**.18923**	**.01335**	**.02470**	**.00232**	**.00194**	**.47938**	**.00153**	**.00363**	**.00386**	**.01047**	**.05000**
Stddev	.00068	.02422	.00250	.00065	.00003	.00008	.00171	.00001	.00005	.00032	.00030	.00715
%RSD	11.552	12.799	18.741	2.6161	1.4397	3.9704	.35665	.96828	1.2461	8.2244	2.8816	14.308
#1	.00636	.17210	.01512	.02516	.00230	.00188	.48058	.00154	.00360	.00363	.01068	.04494
#2	.00540	.20635	.01158	.02424	.00235	.00199	.47817	.00152	.00366	.00408	.01026	.05506
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	**.52716**	**.03133**	**.20129**	**.00293**	**.00956**	**1.0472**	**.00885**	**.00987**	F **-.01348**	**.01863**	**.02515**	**.42563**
Stddev	.02426	.00081	.00158	.00005	.00015	.0136	.00027	.00025	.00069	.00089	.00247	.01850
%RSD	4.6017	2.5782	.78293	1.5518	1.6190	1.2953	3.0937	2.5400	5.0896	4.7560	9.8356	4.3470
#1	.51000	.03190	.20017	.00296	.00945	1.0567	.00905	.01005	-.01299	.01800	.02690	.43871
#2	.54431	.03076	.20240	.00290	.00967	1.0376	.00866	.00969	-.01396	.01926	.02340	.41255
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
Value									.20000			
Range									-50.000%			

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00771**	**.00491**	**.00478**	**.01839**	**.00502**	**.00941**
Stddev	.00032	.00003	.00015	.00003	.00023	.00014
%RSD	4.1465	.53679	3.1041	.17506	4.6351	1.4489
#1	.00749	.00493	.00488	.01841	.00486	.00950
#2	.00794	.00489	.00467	.01837	.00519	.00931
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	**1051.5**	**4725.6**	**39376.**	**6157.3**
Stddev	3.4	2.6	22.	24.7
%RSD	.31965	.05427	.05507	.40116
#1	1053.9	4723.8	39360.	6139.8
#2	1049.1	4727.4	39391.	6174.8

Sample Name: 480-58472-1 SOL RAW Acquired: 5/1/2014 12:56:12 Type: Unk
Method: ICAP 2 March 2014(v59) 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**	**-.00873**	**.00374**	**.61682**	**.03387**	**-.00003**	**141.94**	**-.00053**	**-.00012**
Stddev	.00029	.00552	.00253	.00499	.00005	.00000	.84	.00014	.00008
%RSD	69.710	63.266	67.679	.80880	.15824	5.5842	.59027	27.052	66.795
#1	-.00062	-.00482	.00195	.62034	.03383	-.00003	142.53	-.00063	-.00006
#2	-.00021	-.01264	.00553	.61329	.03391	-.00003	141.35	-.00043	-.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	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	**-.00029**	**.00169**	**1.6543**	**2.6800**	**.02410**	**75.110**	**.05783**	**.05613**	**85.933**
Stddev	.00043	.00001	.0065	.0019	.00082	.099	.00000	.00130	.156
%RSD	151.34	.55027	.39544	.07175	3.4216	.13171	.00237	2.3173	.18129
#1	.00002	.00169	1.6589	2.6787	.02352	75.180	.05782	.05705	86.043
#2	-.00059	.00168	1.6497	2.6814	.02468	75.040	.05783	.05521	85.822
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	**.00087**	**-.00066**	**193.92**	**-.00373**	**-.00214**	**7.3061**	**-.00110**	F **14.360**	**.00138**
Stddev	.00052	.00109	.47	.00204	.00009	.0325	.00040	.041	.00024
%RSD	59.618	166.13	.24240	54.742	3.9939	.44478	36.781	.28727	17.192
#1	.00124	-.00143	194.25	-.00228	-.00220	7.3291	-.00081	14.389	.00155
#2	.00051	.00011	193.59	-.00517	-.00208	7.2831	-.00138	14.330	.00121
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	**.00208**	**-.00003**	**.00176**
Stddev	.00165	.00049	.00037
%RSD	79.453	1789.8	20.754
#1	.00325	.00032	.00202
#2	.00091	-.00038	.00150
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	**925.14**	**4472.3**	**36613.**	**6041.3**
Stddev	5.50	10.2	165.	13.3
%RSD	.59491	.22864	.44988	.22089
#1	929.03	4479.5	36730.	6031.8
#2	921.25	4465.1	36497.	6050.7

Sample Name: 480-58522-11 SOL RAW Acquired: 5/1/2014 12:59:02 Type: Unk
Method: ICAP 2 March 2014(v59) 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**	**.02775**	**.03704**	**.46797**	**.00117**	**-.00010**	**5.9477**	**-.00027**	**-.00031**
Stddev	.00106	.01460	.00272	.00117	.00001	.00006	.1990	.00004	.00008
%RSD	24459.	52.608	7.3517	.25104	.58319	61.886	3.3462	13.645	26.954
#1	-.00074	.01742	.03511	.46714	.00117	-.00006	5.8070	-.00024	-.00037
#2	.00075	.03807	.03896	.46880	.00116	-.00015	6.0884	-.00030	-.00025
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	**-.00040**	**.00281**	**.73454**	**5.6848**	**.01841**	**3.3790**	**.03343**	**.00522**	**53.631**
Stddev	.00069	.00028	.02819	.1777	.00085	.0322	.00045	.00010	1.720
%RSD	169.20	9.9372	3.8376	3.1263	4.6193	.95201	1.3600	1.9812	3.2072
#1	-.00089	.00301	.71461	5.5591	.01780	3.4018	.03375	.00529	52.415
#2	.00008	.00262	.75448	5.8105	.01901	3.3563	.03311	.00515	54.848
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	**-.00008**	**.00041**	**4.8095**	**-.00211**	**-.00041**	**5.6645**	**-.00017**	**.05141**	**.00101**
Stddev	.00008	.00061	.0072	.00061	.00418	.2299	.00055	.00293	.00013
%RSD	109.21	150.01	.14931	29.204	1024.5	4.0581	334.59	5.6927	12.676
#1	-.00014	.00084	4.8044	-.00254	-.00336	5.5019	-.00056	.04934	.00110
#2	-.00002	-.00002	4.8146	-.00167	.00254	5.8270	.00023	.05348	.00092
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**	**.00038**	**.00823**
Stddev	.00036	.00044	.00035
%RSD	27.349	115.84	4.2794
#1	.00156	.00007	.00848
#2	.00105	.00069	.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	**1001.4**	**4652.0**	**38107.**	**6268.2**
Stddev	4.0	22.7	44.	188.9
%RSD	.39960	.48712	.11651	3.0131
#1	1004.2	4668.0	38138.	6401.8
#2	998.56	4636.0	38076.	6134.7

Sample Name: 480-58522-2 SOL RAW Acquired: 5/1/2014 13:01:47 Type: Unk
Method: ICAP 2 March 2014(v59) 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**	**-.01168**	**-.00001**	**.02757**	**.00628**	**-.00008**	**21.837**	**-.00057**	**-.00022**
Stddev	.00045	.00332	.00095	.00047	.00000	.00018	.012	.00017	.00012
%RSD	285.15	28.456	6699.8	1.7086	.04081	216.69	.05586	29.497	53.450
#1	-.00047	-.01403	-.00069	.02790	.00628	.00004	21.846	-.00045	-.00031
#2	.00016	-.00933	.00066	.02724	.00628	-.00021	21.829	-.00068	-.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	**-.00056**	**.00209**	**.00253**	**2.3498**	**.01868**	**9.4858**	**.01601**	**-.00004**	**13.747**
Stddev	.00058	.00071	.00095	.0015	.00081	.0401	.00024	.00007	.018
%RSD	103.96	33.831	37.456	.06315	4.3300	.42238	1.5145	149.36	.12908
#1	-.00097	.00258	.00319	2.3508	.01925	9.4575	.01584	-.00009	13.760
#2	-.00015	.00159	.00186	2.3487	.01810	9.5141	.01619	.00000	13.735
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	**.00161**	**.00038**	**9.2917**	**-.00262**	**.00282**	**12.180**	**-.00072**	**.20764**	**.00046**
Stddev	.00028	.00047	.0225	.00094	.00166	.019	.00010	.00057	.00021
%RSD	17.560	125.27	.24254	36.056	58.867	.15665	14.161	.27519	45.554
#1	.00182	.00004	9.2757	-.00329	.00399	12.166	-.00065	.20724	.00060
#2	.00141	.00071	9.3076	-.00195	.00164	12.193	-.00079	.20805	.00031
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	**.00154**	**.00070**	**.01184**
Stddev	.00189	.00018	.00015
%RSD	123.26	26.206	1.3072
#1	.00020	.00083	.01173
#2	.00287	.00057	.01195
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	**1019.9**	**4642.0**	**38232.**	**6092.6**
Stddev	11.0	43.3	127.	2.3
%RSD	1.0810	.93281	.33270	.03807
#1	1027.7	4672.6	38322.	6091.0
#2	1012.1	4611.4	38142.	6094.2

Sample Name: 480-58689-3 RAW Acquired: 5/1/2014 13:04:33 Type: Unk
Method: ICAP 2 March 2014(v59) 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	**.00011**	**.85219**	**.00034**	**.00850**	**.04860**	**.00073**	**5.6664**	**-.00041**	**.00295**
Stddev	.00034	.02952	.00154	.00028	.00004	.00006	.0182	.00013	.00013
%RSD	304.11	3.4636	446.99	3.2434	.07290	8.7017	.32088	31.885	4.3541
#1	.00035	.87306	.00143	.00870	.04858	.00078	5.6792	-.00050	.00286
#2	-.00013	.83132	-.00074	.00831	.04863	.00069	5.6535	-.00032	.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	**-.00019**	**.00558**	**.02842**	**.87532**	**.00235**	**1.1057**	**.27709**	**-.00060**	**3.0122**
Stddev	.00018	.00000	.00383	.01207	.00029	.0004	.00037	.00006	.0067
%RSD	93.955	.01546	13.480	1.3787	12.339	.03576	.13487	9.5289	.22151
#1	-.00006	.00558	.02571	.88385	.00256	1.1060	.27735	-.00065	3.0075
#2	-.00032	.00558	.03113	.86678	.00215	1.1055	.27682	-.00056	3.0169
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**	**.00069**	**2.1411**	**-.00116**	**-.00040**	**3.8328**	**-.00103**	**.03473**	**.00136**
Stddev	.00003	.00052	.0032	.00050	.00103	.0124	.00028	.00023	.00020
%RSD	1.6050	76.165	.15143	43.095	257.82	.32415	27.324	.66219	15.056
#1	.00173	.00032	2.1388	-.00080	.00033	3.8416	-.00123	.03489	.00121
#2	.00169	.00106	2.1434	-.00151	-.00113	3.8240	-.00083	.03457	.00150
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**	**.00037**	**.01861**
Stddev	.00054	.00006	.00020
%RSD	418.07	16.218	1.0935
#1	.00025	.00033	.01847
#2	-.00051	.00042	.01876
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	**1058.6**	**4751.3**	**38872.**	**6201.7**
Stddev	.6	10.2	221.	21.7
%RSD	.05923	.21443	.56851	.34924
#1	1059.1	4758.5	39029.	6217.0
#2	1058.2	4744.1	38716.	6186.3

Sample Name: 480-58605-2 RAW Acquired: 5/1/2014 13:07:19 Type: Unk
Method: ICAP 2 March 2014(v59) 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**	**.04984**	**.16960**	**2.0993**	**.01032**	**.00013**	**41.963**	**.00045**	**.00775**
Stddev	.00025	.03270	.00352	.0181	.00019	.00003	.046	.00006	.00003
%RSD	64.567	65.605	2.0750	.86365	1.8086	24.500	.11061	14.278	.44566
#1	-.00021	.02672	.16711	2.0865	.01019	.00011	41.996	.00040	.00778
#2	-.00057	.07296	.17209	2.1121	.01046	.00016	41.931	.00050	.00773
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	**.00564**	**1.5578**	**3.3550**	**84.357**	**.01798**	**18.374**	**2.4161**	**.00091**	**491.11**
Stddev	.00017	.0223	.0043	.167	.00205	.222	.0232	.00026	.50
%RSD	2.9308	1.4335	.12881	.19782	11.406	1.2070	.96143	28.776	.10181
#1	.00576	1.5420	3.3520	84.475	.01943	18.217	2.3997	.00073	491.47
#2	.00553	1.5736	3.3581	84.239	.01653	18.531	2.4325	.00110	490.76
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	**.04707**	**.01402**	**138.57**	**.00055**	**.00620**	**9.3271**	**.00106**	**.11730**	**.00547**
Stddev	.00006	.00202	1.50	.00025	.00155	.0047	.00030	.00028	.00015
%RSD	.13719	14.415	1.0847	44.930	25.024	.05037	28.609	.23574	2.7763
#1	.04712	.01545	137.50	.00072	.00510	9.3237	.00085	.11710	.00558
#2	.04703	.01259	139.63	.00037	.00730	9.3304	.00128	.11750	.00536
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	**-.00042**	**.00508**	**.10522**
Stddev	.00068	.00003	.00243
%RSD	160.15	.55504	2.3105
#1	-.00090	.00509	.10351
#2	.00006	.00506	.10694
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	**867.92**	**4412.3**	**35516.**	**6030.4**
Stddev	7.53	48.3	455.	5.8
%RSD	.86709	1.0942	1.2820	.09683
#1	873.24	4446.4	35838.	6026.2
#2	862.59	4378.2	35194.	6034.5

Sample Name: 480-58607-2 RAW Acquired: 5/1/2014 13:10:08 Type: Unk
Method: ICAP 2 March 2014(v59) 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**	**4.8866**	**.00252**	**.04087**	**.05549**	**.00114**	**21.037**	**-.00055**	**.05650**
Stddev	.00009	.1140	.00080	.00044	.00131	.00007	.171	.00002	.00045
%RSD	333.24	2.3332	31.929	1.0843	2.3614	5.9666	.81384	3.3102	.79018
#1	.00004	4.9672	.00309	.04055	.05641	.00109	21.158	-.00056	.05619
#2	-.00010	4.8059	.00195	.04118	.05456	.00119	20.916	-.00053	.05682
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	**.00566**	**.01960**	**6.2457**	**17.060**	**.00643**	**5.8596**	**.50316**	**-.00075**	**10.518**
Stddev	.00058	.00102	.0267	.114	.00164	.0255	.00006	.00040	.070
%RSD	10.189	5.2280	.42803	.66848	25.584	.43543	.01125	53.718	.66115
#1	.00607	.01887	6.2646	17.141	.00759	5.8415	.50312	-.00103	10.568
#2	.00526	.02032	6.2268	16.980	.00526	5.8776	.50320	-.00046	10.469
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	**.00796**	**.01916**	**15.231**	**-.00201**	**-.00033**	**13.396**	**-.00072**	**.26413**	**.08110**
Stddev	.00013	.00024	.222	.00018	.00421	.238	.00024	.00027	.00376
%RSD	1.6463	1.2343	1.4555	8.7565	1293.5	1.7776	33.624	.10224	4.6324
#1	.00806	.01899	15.074	-.00189	-.00330	13.564	-.00089	.26432	.08375
#2	.00787	.01933	15.388	-.00214	.00265	13.228	-.00055	.26393	.07844
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	**.00097**	**.00499**	**.05716**
Stddev	.00048	.00046	.00070
%RSD	49.537	9.1728	1.2219
#1	.00130	.00531	.05667
#2	.00063	.00467	.05766
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	**1006.4**	**4651.4**	**37706.**	**6015.7**
Stddev	12.2	63.4	176.	24.1
%RSD	1.2080	1.3633	.46645	.40090
#1	1015.0	4696.2	37831.	5998.6
#2	997.81	4606.5	37582.	6032.7

Sample Name: BLANK Acquired: 5/1/2014 13:12:51 Type: Unk
Method: ICAP 2 March 2014(v59) 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**	**-.00697**	**-.00126**	**.00637**	**.00028**	**-.00012**	**.01091**	**.00012**	**-.00078**
Stddev	.00056	.02569	.00376	.00016	.00001	.00004	.00812	.00014	.00008
%RSD	182.86	368.41	297.78	2.4440	2.1784	30.497	74.462	118.45	9.6697
#1	.00009	.01119	.00139	.00648	.00029	-.00009	.00517	.00021	-.00083
#2	-.00070	-.02514	-.00392	.00626	.00028	-.00014	.01665	.00002	-.00073
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	**.00037**	**.00049**	**.06845**	**.04191**	**.00028**	**.00503**	**-.00027**	**.00033**	**.11923**
Stddev	.00056	.00092	.01929	.00285	.00179	.00226	.00017	.00001	.01241
%RSD	153.30	187.64	28.178	6.7953	641.57	44.913	62.088	2.2300	10.412
#1	-.00003	.00115	.05481	.04393	.00155	.00663	-.00015	.00032	.11045
#2	.00077	-.00016	.08209	.03990	-.00099	.00344	-.00039	.00033	.12800
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**	**.00094**	**-.00505**	**.00104**	**.00126**	**-.00003**	**.00001**	**.00008**	**.00053**
Stddev	.00014	.00101	.00284	.00106	.00078	.00307	.00051	.00002	.00073
%RSD	198.08	107.43	56.307	102.11	61.974	8984.2	9631.3	24.786	136.79
#1	.00017	.00022	-.00304	.00029	.00181	.00214	-.00035	.00010	.00105
#2	-.00003	.00165	-.00706	.00179	.00071	-.00221	.00037	.00007	.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	**-.00583**	**.00016**	**.00060**
Stddev	.00026	.00001	.00075
%RSD	4.3810	9.2715	125.02
#1	-.00601	.00017	.00007
#2	-.00565	.00015	.00112
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	**973.79**	**4094.0**	**35859.**	**5709.0**
Stddev	5.87	25.6	68.	7.1
%RSD	.60284	.62486	.18897	.12400
#1	969.63	4075.9	35811.	5714.0
#2	977.94	4112.1	35907.	5704.0

Sample Name: BLANK Acquired: 5/1/2014 13:15:40 Type: Unk
Method: ICAP 2 March 2014(v59) 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**	**-.01304**	**-.00252**	**.00468**	**.00040**	**-.00020**	**.00548**	**.00010**	**-.00089**
Stddev	.00092	.00309	.00204	.00038	.00004	.00003	.00423	.00011	.00029
%RSD	572.33	23.673	80.673	8.1891	10.396	14.079	77.210	111.82	32.960
#1	.00049	-.01086	-.00396	.00495	.00037	-.00018	.00249	.00018	-.00068
#2	-.00081	-.01522	-.00108	.00441	.00043	-.00022	.00847	.00002	-.00110
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**	**.00055**	**.00492**	**.01322**	**.00039**	**.00423**	**-.00030**	**-.00018**	**.09025**
Stddev	.00070	.00051	.00357	.01301	.00001	.00131	.00012	.00003	.01399
%RSD	218.39	91.663	72.516	98.396	3.0076	31.023	41.388	14.978	15.503
#1	.00018	.00019	.00744	.02242	.00040	.00516	-.00038	-.00019	.08036
#2	-.00082	.00091	.00240	.00402	.00038	.00330	-.00021	-.00016	.10014
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**	**.00027**	**-.01189**	**-.00013**	**.00126**	**-.05100**	**-.00015**	**.00000**	**.00011**
Stddev	.00008	.00155	.00631	.00055	.00122	.01009	.00015	.0000	.00031
%RSD	40.813	569.42	53.054	434.05	97.485	19.778	100.37	381.26	294.31
#1	-.00025	-.00082	-.00743	-.00052	.00212	-.04387	-.00026	.00000	-.00011
#2	-.00014	.00137	-.01635	.00026	.00039	-.05814	-.00004	.00000	.00032
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	**-.00484**	**.00084**	**.00050**
Stddev	.00040	.00005	.00023
%RSD	8.2966	6.3792	45.060
#1	-.00512	.00088	.00034
#2	-.00455	.00080	.00067
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	**1000.9**	**4265.2**	**37304.**	**5866.9**
Stddev	.2	2.5	99.	18.5
%RSD	.01510	.05978	.26522	.31460
#1	1000.8	4263.4	37234.	5853.8
#2	1001.0	4267.0	37374.	5879.9

Sample Name: mb 480-179145/1-a Acquired: 5/1/2014 13:18:29 Type: Unk
Method: ICAP 2 March 2014(v59) 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**	**-.00170**	**-.00124**	**.00273**	**.00027**	**-.00010**	**.01250**	**-.00045**	**-.00040**
Stddev	.00032	.05765	.00162	.00015	.00001	.00004	.00108	.00004	.00004
%RSD	539.14	3400.7	130.78	5.4625	5.3059	38.173	8.6387	9.8028	10.642
#1	-.00017	-.04246	-.00009	.00284	.00026	-.00013	.01174	-.00048	-.00043
#2	.00028	.03907	-.00238	.00263	.00028	-.00007	.01326	-.00042	-.00037
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	**-.00013**	**.00013**	**-.00059**	**-.02370**	**.00148**	**-.00018**	**.00038**	**-.00050**	**.05148**
Stddev	.00058	.00010	.00517	.01303	.00047	.00439	.00001	.00027	.00136
%RSD	435.59	76.791	873.66	54.985	31.405	2434.4	3.4656	54.842	2.6425
#1	.00028	.00020	.00306	-.03291	.00115	.00292	.00037	-.00031	.05244
#2	-.00054	.00006	-.00425	-.01448	.00181	-.00328	.00039	-.00069	.05052
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	**-.00040**	**.00047**	**-.01192**	**-.00020**	**.00131**	**-.02174**	**-.00112**	**.00006**	**.00025**
Stddev	.00008	.00022	.00180	.00013	.00018	.00987	.00026	.00000	.00076
%RSD	20.578	46.151	15.122	68.003	13.571	45.385	23.436	3.8208	300.07
#1	-.00046	.00032	-.01064	-.00010	.00119	-.01476	-.00094	.00005	-.00029
#2	-.00034	.00062	-.01319	-.00029	.00144	-.02872	-.00131	.00006	.00079
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**	**.00012**	**.00109**
Stddev	.00028	.00028	.00001
%RSD	220.33	230.27	1.0571
#1	-.00032	-.00008	.00108
#2	.00007	.00032	.00110
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	**1072.6**	**4803.4**	**39971.**	**6152.3**
Stddev	.8	15.4	563.	66.6
%RSD	.07527	.32086	1.4096	1.0821
#1	1072.1	4792.5	40369.	6105.2
#2	1073.2	4814.3	39572.	6199.4

Sample Name: CCV Acquired: 5/1/2014 13:21:19 Type: QC
Method: ICAP 2 March 2014(v59) 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	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.49480	25.565	.51890	.50674	.51343	.50313	25.227	.50904	.49621	.50206	.50962	25.515	25.610
Stddev	.00590	.137	.00201	.00274	.00592	.00363	.168	.00190	.00090	.00094	.00338	.254	.216
%RSD	1.1930	.53779	.38645	.54000	1.1529	.72205	.66444	.37318	.18222	.18771	.66237	.99715	.84356
#1	.49898	25.468	.52031	.50868	.51762	.50056	25.109	.51039	.49685	.50273	.51200	25.335	25.457
#2	.49063	25.662	.51748	.50481	.50924	.50569	25.346	.50770	.49557	.50139	.50723	25.695	25.762
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
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	.51300	25.516	.51098	.52154	25.397	.50704	.50391	24.878	.52467	.51036	25.168	.49638	.51029
Stddev	.00242	.148	.00324	.00111	.248	.00103	.00182	.096	.00527	.00096	.172	.00040	.00462
%RSD	.47080	.57875	.63430	.21256	.97595	.20231	.36087	.38467	1.0052	.18741	.68536	.08146	.90449
#1	.51130	25.620	.51327	.52232	25.222	.50776	.50263	24.946	.52840	.50968	25.046	.49609	.50703
#2	.51471	25.411	.50868	.52075	25.572	.50631	.50520	24.810	.52094	.51104	25.290	.49666	.51356
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
Value													
Range													

Elem	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm
Avg	.51350	.50297	.50448	.51054
Stddev	.00251	.00045	.00308	.00160
%RSD	.48887	.08961	.61072	.31395
#1	.51528	.50329	.50665	.51168
#2	.51173	.50265	.50230	.50941
Check ?	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	957.62	4595.4	37736.	5939.8
Stddev	1.65	15.7	94.	43.8
%RSD	.17276	.34056	.25001	.73729
#1	956.45	4584.3	37669.	5970.7
#2	958.79	4606.4	37803.	5908.8

Sample Name: CCB Acquired: 5/1/2014 13:23:58 Type: QC
Method: ICAP 2 March 2014(v59) 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	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00010	.00935	-.00110	.00215	-.00001	.00014	.01144	-.00041	-.00043	-.00024	.00063	.00901	.02496
Stddev	.00003	.03727	.00059	.00011	.00004	.00020	.01101	.00000	.00009	.00078	.00016	.01508	.01902
%RSD	24.044	398.75	53.715	5.1079	251.63	143.75	96.219	1.0682	21.531	330.90	24.837	167.38	76.169
#1	.00012	-.01701	-.00152	.00223	.00001	.00000	.00366	-.00042	-.00036	-.00079	.00052	-.00165	.01152
#2	.00009	.03570	-.00069	.00207	-.00004	.00029	.01923	-.00041	-.00050	.00032	.00075	.01967	.03841
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
High Limit													
Low Limit													

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	.00178	-.00140	-.00002	-.00016	.06255	-.00072	-.00058	-.01314	.00038	.00176	-.04650	-.00098	.00022
Stddev	.00196	.00022	.00001	.00020	.00520	.00049	.00024	.00185	.00171	.00118	.02232	.00048	.00031
%RSD	109.69	15.426	56.084	127.81	8.3111	68.515	41.315	14.103	454.47	67.226	48.001	49.216	137.23
#1	.00317	-.00155	-.00002	-.00002	.05888	-.00107	-.00041	-.01183	.00159	.00259	-.06228	-.00064	.00001
#2	.00040	-.00124	-.00003	-.00030	.06623	-.00037	-.00075	-.01446	-.00083	.00092	-.03072	-.00132	.00044
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
High Limit													
Low Limit													

Elem	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm
Avg	.00036	-.00056	.00027	.00023
Stddev	.00014	.00040	.00007	.00043
%RSD	38.242	70.828	24.989	182.50
#1	.00026	-.00028	.00022	.00054
#2	.00046	-.00085	.00031	-.00007
Check ?	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	1070.5	4779.0	39573.	6189.7
Stddev	2.6	31.8	118.	38.7
%RSD	.23911	.66540	.29773	.62452
#1	1068.6	4756.5	39489.	6162.4
#2	1072.3	4801.5	39656.	6217.1

Sample Name: CCVL Acquired: 5/1/2014 13:26:47 Type: QC
Method: ICAP 2 March 2014(v59) 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	.00557	.20821	.01256	.02176	.00233	.00197	.48382	.00164	.00361	.00388	.01043	.05042
Stddev	.00031	.03693	.00029	.00046	.00000	.00001	.00039	.00023	.00021	.00013	.00021	.00192
%RSD	5.5080	17.737	2.3336	2.1136	.02657	.33256	.08040	13.846	5.7293	3.3881	1.9987	3.8078
#1	.00579	.23432	.01235	.02209	.00233	.00196	.48354	.00181	.00376	.00379	.01057	.04906
#2	.00535	.18210	.01277	.02144	.00233	.00197	.48410	.00148	.00347	.00398	.01028	.05178
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	.53065	.03061	.19919	.00296	.00966	1.0305	.00912	.00942	F -.01285	.01895	.02571	.43002
Stddev	.03102	.00004	.00062	.00006	.00035	.0085	.00026	.00131	.00044	.00192	.00008	.01715
%RSD	5.8450	.11587	.30879	1.9999	3.5768	.82076	2.8343	13.943	3.4601	10.109	.30953	3.9876
#1	.50872	.03058	.19875	.00301	.00990	1.0246	.00931	.01034	-.01317	.01759	.02566	.41790
#2	.55258	.03063	.19962	.00292	.00941	1.0365	.00894	.00849	-.01254	.02030	.02577	.44215
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
Value									.20000			
Range									-50.000%			

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00822	.00491	.00497	.01856	.00545	.00968
Stddev	.00006	.00000	.00038	.00020	.00034	.00053
%RSD	.72062	.05359	7.6016	1.0728	6.2063	5.4419
#1	.00826	.00491	.00470	.01870	.00569	.00931
#2	.00817	.00491	.00524	.01842	.00521	.01005
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	1053.1	4730.3	39507.	6157.0
Stddev	3.2	18.0	103.	6.7
%RSD	.30179	.38143	.26148	.10861
#1	1050.8	4717.5	39434.	6152.3
#2	1055.3	4743.0	39580.	6161.8

Sample Name: lcs 480-179145/2-a Acquired: 5/1/2014 13:29:36 Type: Unk
Method: ICAP 2 March 2014(v59) 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**	**10.101**	**.21189**	**.20707**	**.21019**	**.20269**	**9.7526**	**.20302**	**.19748**
Stddev	.00192	.235	.00010	.00085	.00314	.00639	.3577	.00071	.00171
%RSD	3.7760	2.3237	.04610	.40879	1.4935	3.1513	3.6675	.34806	.86780
#1	.05231	9.9350	.21182	.20647	.21241	.19817	9.4997	.20252	.19627
#2	.04959	10.267	.21196	.20767	.20797	.20721	10.006	.20352	.19869
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	**.20341**	**.20445**	**9.8898**	**9.8426**	**.19953**	**10.444**	**.20760**	**.20367**	**9.7026**
Stddev	.00318	.00141	.3603	.3303	.00631	.092	.00220	.00067	.2960
%RSD	1.5654	.69088	3.6429	3.3557	3.1609	.88112	1.0576	.33000	3.0504
#1	.20566	.20544	9.6351	9.6091	.19507	10.509	.20915	.20319	9.4933
#2	.20115	.20345	10.145	10.076	.20399	10.379	.20605	.20414	9.9119
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	**.19592**	**.19657**	**9.9640**	**.20244**	**.20964**	**9.7973**	**.19040**	**.19519**	**.19904**
Stddev	.00091	.00017	.0390	.00088	.00260	.3091	.00132	.00575	.00239
%RSD	.46520	.08871	.39183	.43506	1.2419	3.1548	.69452	2.9483	1.2010
#1	.19528	.19669	9.9364	.20182	.20780	9.5788	.18947	.19112	.20073
#2	.19657	.19645	9.9916	.20306	.21149	10.016	.19134	.19926	.19735
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	**.20125**	**.20650**	**.20603**
Stddev	.00077	.00154	.00123
%RSD	.38307	.74520	.59756
#1	.20070	.20759	.20690
#2	.20180	.20541	.20515
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	**1005.0**	**4679.4**	**38612.**	**6295.8**
Stddev	7.2	25.1	434.	129.5
%RSD	.71943	.53599	1.1242	2.0568
#1	1010.1	4697.1	38305.	6387.4
#2	999.92	4661.7	38919.	6204.2

Sample Name: 480-58882-d-1-a Acquired: 5/1/2014 13:32:14 Type: Unk
Method: ICAP 2 March 2014(v59) 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**	**.12132**	**.00016**	**.01800**	**.09203**	**-.00013**	**80.282**	**-.00025**	**-.00030**
Stddev	.00025	.00052	.00295	.00025	.00012	.00012	.615	.00012	.00002
%RSD	73.390	.42749	1795.7	1.3745	.12575	87.341	.76660	49.390	7.6760
#1	.00051	.12096	.00225	.01783	.09211	-.00022	80.717	-.00016	-.00028
#2	.00016	.12169	-.00192	.01818	.09195	-.00005	79.847	-.00034	-.00031
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	**.00006**	**.00119**	**.38407**	**1.9166**	**.01682**	**15.887**	**.12484**	**.00006**	**5.4685**
Stddev	.00005	.00002	.00194	.0222	.00187	.058	.00002	.00033	.0457
%RSD	80.176	1.4979	.50554	1.1591	11.116	.36283	.01758	529.11	.83605
#1	.00010	.00120	.38270	1.9323	.01814	15.928	.12483	-.00017	5.5009
#2	.00003	.00117	.38544	1.9009	.01550	15.847	.12486	.00029	5.4362
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**	**.00085**	**24.689**	**-.00113**	**.00126**	**4.3597**	**-.00093**	**.15498**	**.00348**
Stddev	.00005	.00111	.216	.00002	.00182	.0203	.00009	.00017	.00066
%RSD	16.620	130.12	.87316	1.7182	143.78	.46463	10.116	.11232	18.992
#1	.00027	.00007	24.537	-.00115	-.00002	4.3740	-.00086	.15510	.00301
#2	.00034	.00164	24.841	-.00112	.00255	4.3454	-.00099	.15486	.00395
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	**-.00146**	**.00003**	**.00398**
Stddev	.00121	.00042	.00054
%RSD	82.951	1473.6	13.557
#1	-.00061	-.00027	.00436
#2	-.00232	.00033	.00360
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	**986.30**	**4578.9**	**38052.**	**6184.2**
Stddev	10.61	38.0	27.	55.3
%RSD	1.0757	.82951	.07226	.89350
#1	993.80	4605.8	38033.	6145.2
#2	978.80	4552.0	38072.	6223.3

Sample Name: 480-58882-d-2-a Acquired: 5/1/2014 13:35:00 Type: Unk
Method: ICAP 2 March 2014(v59) 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**	**.00381**	**-.00080**	**.29361**	**.03826**	**-.00012**	**175.43**	**-.00025**	**.00114**
Stddev	.00099	.01543	.00135	.00078	.00003	.00003	.84	.00000	.00019
%RSD	786.05	404.66	168.73	.26622	.08128	20.632	.47925	1.3583	16.842
#1	-.00083	.01473	-.00176	.29416	.03828	-.00014	176.02	-.00024	.00101
#2	.00058	-.00710	.00015	.29306	.03824	-.00011	174.83	-.00025	.00128
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	**-.00012**	**.00207**	**.10222**	**2.2290**	**.01870**	**26.121**	**1.2360**	**-.00024**	**18.838**
Stddev	.00018	.00029	.00467	.0146	.00095	.166	.0066	.00006	.056
%RSD	148.22	14.161	4.5693	.65417	5.0856	.63710	.53238	23.093	.29474
#1	-.00024	.00186	.09892	2.2187	.01938	26.003	1.2314	-.00020	18.877
#2	.00001	.00227	.10552	2.2393	.01803	26.238	1.2407	-.00028	18.798
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	**.00266**	**.00067**	**80.803**	**-.00081**	**-.00339**	**3.7089**	**-.00045**	**.24530**	**.00120**
Stddev	.00082	.00073	.090	.00139	.00302	.0156	.00023	.00039	.00030
%RSD	30.802	110.10	.11085	170.88	89.142	.41982	51.358	.15753	24.980
#1	.00324	.00015	80.740	-.00180	-.00125	3.7199	-.00029	.24557	.00098
#2	.00208	.00118	80.867	.00017	-.00553	3.6978	-.00062	.24502	.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	**.00007**	**-.00024**	**.00722**
Stddev	.00023	.00004	.00041
%RSD	311.69	18.092	5.6776
#1	-.00009	-.00027	.00751
#2	.00024	-.00021	.00693
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	**927.05**	**4418.1**	**36363.**	**6155.4**
Stddev	7.53	8.5	162.	3.3
%RSD	.81177	.19196	.44512	.05441
#1	932.38	4424.1	36478.	6153.1
#2	921.73	4412.1	36249.	6157.8

Sample Name: 480-58882-d-3-a Acquired: 5/1/2014 13:37:44 Type: Unk
Method: ICAP 2 March 2014(v59) 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**	**.39681**	**-.00126**	**.01358**	**.16215**	**-.00013**	**86.431**	**-.00038**	**-.00042**
Stddev	.00008	.03635	.00094	.00028	.00030	.00005	.153	.00021	.00007
%RSD	247.74	9.1615	74.817	2.0858	.18717	42.037	.17722	54.319	17.794
#1	.00003	.42252	-.00192	.01378	.16236	-.00017	86.539	-.00023	-.00036
#2	-.00009	.37111	-.00059	.01338	.16193	-.00009	86.322	-.00053	-.00047
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	**.00008**	**.00195**	**.36446**	**1.1825**	**.01496**	**15.423**	**.00337**	**-.00019**	**19.996**
Stddev	.00078	.00022	.00160	.0107	.00084	.060	.00016	.00032	.069
%RSD	997.28	11.247	.43932	.90819	5.6400	.39012	4.6621	167.41	.34612
#1	-.00047	.00211	.36559	1.1749	.01437	15.466	.00348	.00004	20.045
#2	.00063	.00180	.36333	1.1901	.01556	15.381	.00326	-.00042	19.947
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	**.00004**	**.00125**	**7.6778**	**-.00078**	**.00164**	**4.2756**	**-.00089**	**.17709**	**.00890**
Stddev	.00004	.00034	.0792	.00013	.00111	.0152	.00007	.00026	.00031
%RSD	114.25	27.222	1.0318	17.056	67.611	.35623	7.8845	.14433	3.4758
#1	.00001	.00149	7.7338	-.00069	.00086	4.2863	-.00094	.17691	.00912
#2	.00007	.00101	7.6217	-.00087	.00242	4.2648	-.00084	.17727	.00869
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	**-.00012**	**.00102**	**.00334**
Stddev	.00020	.00157	.00006
%RSD	165.71	153.40	1.7461
#1	.00002	.00213	.00330
#2	-.00026	-.00009	.00338
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	**978.02**	**4606.8**	**37683.**	**6170.0**
Stddev	.24	11.2	73.	19.2
%RSD	.02498	.24350	.19502	.31043
#1	977.85	4598.8	37631.	6156.5
#2	978.19	4614.7	37735.	6183.6

Sample Name: 480-58882-d-4-a Acquired: 5/1/2014 13:40:29 Type: Unk
Method: ICAP 2 March 2014(v59) 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**	**.11183**	**.00208**	**.09024**	**.10576**	**-.00009**	**21.092**	**-.00012**	**-.00043**
Stddev	.00159	.02628	.00067	.00119	.00041	.00009	.101	.00010	.00004
%RSD	3791.9	23.496	32.316	1.3242	.38552	101.67	.47825	90.563	8.2216
#1	.00108	.13042	.00160	.09108	.10547	-.00003	21.021	-.00004	-.00046
#2	-.00116	.09325	.00255	.08939	.10605	-.00016	21.164	-.00019	-.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	**-.00064**	**.00113**	**.20095**	**4.6965**	**.02043**	**14.364**	**.01297**	**.00732**	**18.581**
Stddev	.00094	.00025	.00339	.0188	.00078	.186	.00007	.00055	.087
%RSD	147.85	21.930	1.6882	.40082	3.8391	1.2938	.52600	7.4683	.47056
#1	-.00131	.00095	.20335	4.6832	.01987	14.233	.01293	.00771	18.519
#2	.00003	.00131	.19855	4.7098	.02098	14.496	.01302	.00694	18.643
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	**-.00036**	**.00022**	**5.7468**	**-.00196**	**.00139**	**6.1749**	**-.00058**	**.39279**	**.00163**
Stddev	.00035	.00004	.0607	.00063	.00002	.0126	.00015	.00202	.00040
%RSD	97.936	19.811	1.0559	32.006	1.2078	.20453	25.566	.51484	24.698
#1	-.00011	.00025	5.7897	-.00152	.00137	6.1838	-.00047	.39136	.00135
#2	-.00061	.00019	5.7039	-.00241	.00140	6.1660	-.00068	.39422	.00191
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	**-.00097**	**.00031**	**.00324**
Stddev	.00164	.00003	.00030
%RSD	168.29	9.4279	9.2982
#1	-.00213	.00033	.00345
#2	.00019	.00029	.00303
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	**990.44**	**4592.3**	**37833.**	**6125.0**
Stddev	7.90	34.4	96.	29.6
%RSD	.79769	.74940	.25435	.48353
#1	984.86	4567.9	37901.	6146.0
#2	996.03	4616.6	37765.	6104.1

Sample Name: 480-58882-d-5-a Acquired: 5/1/2014 13:43:14 Type: Unk
Method: ICAP 2 March 2014(v59) 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**	**.30590**	**-.00153**	**.03751**	**.09163**	**-.00007**	**124.07**	**-.00021**	**-.00019**
Stddev	.00009	.02382	.00236	.00023	.00031	.00010	.82	.00010	.00001
%RSD	75.055	7.7872	154.23	.61712	.34239	136.26	.65782	46.707	6.3814
#1	.00006	.32274	.00014	.03734	.09140	.00000	124.64	-.00028	-.00018
#2	.00019	.28906	-.00320	.03767	.09185	-.00014	123.49	-.00014	-.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	**-.00007**	**.00161**	**.34390**	**3.7359**	**.01269**	**16.005**	**.09676**	**-.00020**	**3.7267**
Stddev	.00019	.00050	.00131	.0365	.00038	.025	.00009	.00025	.0147
%RSD	277.97	30.882	.38159	.97840	2.9764	.15736	.09281	122.10	.39530
#1	-.00020	.00126	.34483	3.7617	.01242	15.987	.09682	-.00003	3.7371
#2	.00007	.00196	.34298	3.7100	.01295	16.022	.09669	-.00038	3.7163
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**	**.00076**	**31.908**	**-.00085**	**-.00256**	**4.8242**	**-.00090**	**.23602**	**.00785**
Stddev	.00055	.00109	.110	.00054	.00287	.0423	.00010	.00152	.00095
%RSD	319.69	144.75	.34412	62.750	112.40	.87600	11.402	.64343	12.154
#1	.00056	-.00002	31.986	-.00123	-.00052	4.8540	-.00082	.23710	.00853
#2	-.00022	.00153	31.830	-.00048	-.00459	4.7943	-.00097	.23495	.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	**.00007**	**.00069**	**.00611**
Stddev	.00058	.00043	.00086
%RSD	833.49	62.440	14.060
#1	.00048	.00039	.00550
#2	-.00034	.00100	.00672
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	**961.15**	**4486.2**	**37139.**	**6140.2**
Stddev	5.63	15.9	141.	2.0
%RSD	.58619	.35437	.37890	.03192
#1	957.17	4474.9	37239.	6138.8
#2	965.14	4497.4	37040.	6141.6

Sample Name: 480-58882-d-6-a Acquired: 5/1/2014 13:45:59 Type: Unk
Method: ICAP 2 March 2014(v59) 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**	**.15114**	**-.00124**	**.01681**	**.08887**	**-.00006**	**77.484**	**-.00041**	**-.00031**
Stddev	.00025	.00043	.00100	.00026	.00011	.00016	.561	.00002	.00009
%RSD	82.809	.28737	80.741	1.5457	.12093	296.57	.72442	3.8663	27.713
#1	-.00012	.15145	-.00053	.01700	.08895	-.00017	77.881	-.00042	-.00025
#2	-.00048	.15083	-.00194	.01663	.08880	.00006	77.087	-.00040	-.00037
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	**.00019**	**.00094**	**.28114**	**1.8828**	**.01678**	**15.625**	**.11766**	**-.00014**	**5.3427**
Stddev	.00006	.00005	.00498	.0245	.00062	.005	.00055	.00031	.0508
%RSD	33.518	4.9264	1.7710	1.3034	3.6906	.03488	.46881	216.05	.95103
#1	.00014	.00098	.28466	1.8654	.01634	15.621	.11727	-.00036	5.3787
#2	.00023	.00091	.27762	1.9001	.01721	15.629	.11805	.00008	5.3068
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**	**.00076**	**24.488**	**-.00150**	**.00063**	**4.3370**	**-.00088**	**.14509**	**.00353**
Stddev	.00015	.00123	.014	.00001	.00350	.0307	.00005	.00097	.00015
%RSD	39.730	162.48	.05665	.45362	557.49	.70741	5.5618	.66539	4.3562
#1	-.00028	-.00011	24.498	-.00150	-.00185	4.3587	-.00091	.14578	.00364
#2	-.00050	.00163	24.478	-.00151	.00310	4.3153	-.00085	.14441	.00342
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**	**.00095**	**.00353**
Stddev	.00047	.00025	.00014
%RSD	40.068	26.252	4.0436
#1	-.00152	.00113	.00363
#2	-.00085	.00077	.00343
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	**985.02**	**4572.8**	**37950.**	**6236.3**
Stddev	.36	8.3	99.	35.6
%RSD	.03701	.18104	.26199	.57082
#1	985.28	4578.7	38020.	6211.1
#2	984.76	4567.0	37880.	6261.4

Sample Name: 480-58882-d-7-a Acquired: 5/1/2014 13:48:44 Type: Unk
Method: ICAP 2 March 2014(v59) 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**	**.04906**	**-.00082**	**.14489**	**.05830**	**-.00010**	**56.350**	**-.00041**	**-.00038**
Stddev	.00030	.01418	.00100	.00028	.00235	.00009	.152	.00005	.00011
%RSD	3127.2	28.902	120.65	.19054	4.0313	90.084	.26995	12.818	27.758
#1	.00020	.03903	-.00153	.14508	.05664	-.00004	56.243	-.00037	-.00045
#2	-.00022	.05909	-.00012	.14469	.05996	-.00017	56.458	-.00044	-.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	**-.00004**	**.00086**	**.03524**	**2.0242**	**.01769**	**17.146**	**.16768**	**-.00008**	**24.469**
Stddev	.00029	.00015	.00640	.0071	.00119	.673	.00578	.00009	.028
%RSD	693.68	16.971	18.166	.35296	6.7510	3.9226	3.4465	109.98	.11323
#1	-.00025	.00096	.03072	2.0191	.01854	16.670	.16359	-.00014	24.449
#2	.00016	.00075	.03977	2.0292	.01685	17.621	.17177	-.00002	24.488
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**	**.00092**	**10.393**	**-.00040**	**.00078**	**4.7832**	**-.00051**	**.24518**	**.00173**
Stddev	.00024	.00028	.013	.00121	.00295	.0341	.00024	.00018	.00001
%RSD	40.454	30.787	.12708	304.52	377.15	.71343	46.406	.07284	.50957
#1	-.00042	.00112	10.402	-.00126	.00287	4.7591	-.00035	.24505	.00174
#2	-.00076	.00072	10.384	.00046	-.00131	4.8073	-.00068	.24530	.00172
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	**.00032**	**.00017**	**.00233**
Stddev	.00045	.00036	.00016
%RSD	141.80	210.32	6.7414
#1	.00064	.00043	.00222
#2	.00000	-.00008	.00244
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	**975.90**	**4582.0**	**39016.**	**6365.3**
Stddev	11.90	27.7	1172.	37.5
%RSD	1.2194	.60358	3.0041	.58939
#1	984.31	4601.6	39844.	6391.8
#2	967.48	4562.5	38187.	6338.7

Sample Name: 480-58882-d-7-aSD@5 Acquired: 5/1/2014 13:51:29 Type: Unk
Method: ICAP 2 March 2014(v59) 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**	**.01605**	**-.00051**	**.02795**	**.01227**	**-.00008**	**11.613**	**-.00049**	**-.00035**
Stddev	.00021	.04137	.00082	.00007	.00001	.00005	.053	.00001	.00007
%RSD	170.47	257.68	160.38	.25339	.05957	63.901	.45347	1.7519	18.754
#1	.00003	-.01320	.00007	.02790	.01227	-.00004	11.651	-.00048	-.00030
#2	-.00028	.04531	-.00109	.02800	.01228	-.00012	11.576	-.00050	-.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	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	**-.00028**	**.00072**	**.00615**	**.40978**	**.00308**	**3.5395**	**.03465**	**-.00037**	**4.8790**
Stddev	.00007	.00013	.00205	.00697	.00166	.0098	.00025	.00036	.0297
%RSD	24.270	18.087	33.334	1.7000	53.846	.27556	.73330	96.396	.60944
#1	-.00033	.00063	.00470	.41471	.00191	3.5464	.03447	-.00012	4.9001
#2	-.00023	.00082	.00760	.40486	.00426	3.5326	.03483	-.00063	4.8580
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**	**.00005**	**1.9472**	**-.00150**	**.00290**	**.90263**	**-.00050**	**.04992**	**.00098**
Stddev	.00013	.00014	.0029	.00105	.00156	.00279	.00018	.00004	.00003
%RSD	34.724	299.87	.15024	70.263	53.922	.30901	36.885	.08736	3.2872
#1	-.00047	-.00005	1.9451	-.00224	.00179	.90460	-.00063	.04995	.00100
#2	-.00029	.00015	1.9492	-.00075	.00400	.90066	-.00037	.04989	.00096
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	**-.00058**	**.00077**	**.00051**
Stddev	.00017	.00024	.00028
%RSD	28.948	30.450	54.749
#1	-.00046	.00094	.00031
#2	-.00070	.00061	.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	**1032.8**	**4679.5**	**38820.**	**6189.7**
Stddev	2.2	6.0	88.	70.0
%RSD	.21005	.12879	.22612	1.1315
#1	1034.3	4683.7	38882.	6140.2
#2	1031.2	4675.2	38758.	6239.2

Sample Name: CCV Acquired: 5/1/2014 13:54:16 Type: QC
Method: ICAP 2 March 2014(v59) 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	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.49078**	**25.068**	**.50653**	**.49401**	**.50461**	**.49521**	**24.646**	**.49970**	**.48977**	**.49751**	**.50318**	**24.825**	**24.908**
Stddev	.00270	.259	.00029	.00257	.00430	.00606	.273	.00174	.00575	.00085	.00245	.354	.315
%RSD	.55086	1.0337	.05768	.51989	.85285	1.2247	1.1068	.34802	1.1741	.17185	.48624	1.4248	1.2663
#1	.49269	25.252	.50632	.49583	.50766	.49950	24.839	.49847	.48571	.49811	.50491	25.076	25.131
#2	.48887	24.885	.50674	.49220	.50157	.49092	24.453	.50093	.49384	.49690	.50145	24.575	24.685
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
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	**.50598**	**25.065**	**.50834**	**.50779**	**24.855**	**.49665**	**.49538**	**24.342**	**.51152**	**.50272**	**24.599**	**.48545**	**.49875**
Stddev	.00205	.126	.00237	.00334	.357	.00062	.00380	.088	.00324	.00193	.014	.00182	.00616
%RSD	.40533	.50121	.46668	.65851	1.4364	.12479	.76778	.36133	.63365	.38401	.05773	.37563	1.2360
#1	.50743	25.154	.51002	.51016	25.107	.49622	.49269	24.280	.51381	.50409	24.589	.48416	.50311
#2	.50453	24.976	.50666	.50543	24.602	.49709	.49807	24.404	.50923	.50136	24.609	.48674	.49439
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
Value													
Range													

Elem	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm
Avg	**.50543**	**.49321**	**.49612**	**.50460**
Stddev	.00170	.00205	.00145	.00469
%RSD	.33629	.41650	.29212	.93023
#1	.50663	.49175	.49714	.50792
#2	.50423	.49466	.49509	.50128
Check ?	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	**965.58**	**4665.4**	**38059.**	**6090.3**
Stddev	10.68	15.1	151.	78.7
%RSD	1.1061	.32438	.39739	1.2929
#1	973.13	4676.1	37952.	6034.6
#2	958.02	4654.7	38166.	6145.9

Sample Name: CCB Acquired: 5/1/2014 13:56:55 Type: QC
Method: ICAP 2 March 2014(v59) 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	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00031**	**-.01504**	**-.00177**	**-.00037**	**.00001**	**-.00005**	**-.00435**	**-.00035**	**-.00045**	**-.00002**	**.00054**	**-.00107**	**-.00568**
Stddev	.00042	.00000	.00047	.00042	.00001	.00022	.00620	.00008	.00011	.00033	.00031	.00571	.01764
%RSD	135.85	.01772	26.302	115.27	66.566	463.15	142.64	23.358	25.476	1998.4	58.018	532.43	310.53
#1	-.00001	-.01504	-.00144	-.00067	.00001	-.00020	-.00873	-.00041	-.00053	-.00025	.00032	.00296	-.01816
#2	-.00061	-.01503	-.00210	-.00007	.00000	.00011	.00004	-.00029	-.00037	.00022	.00076	-.00511	.00679
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
High Limit													
Low Limit													

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	**.00026**	**-.00257**	**-.00006**	**-.00015**	**.03299**	**-.00060**	**.00086**	**-.01770**	**.00040**	**-.00075**	**-.02476**	**-.00113**	**.00009**
Stddev	.00069	.00312	.00000	.00001	.00084	.00024	.00108	.00324	.00062	.00038	.00835	.00038	.00000
%RSD	266.95	121.53	2.1473	9.6124	2.5547	39.849	125.40	18.333	153.08	51.158	33.709	34.065	2.9878
#1	.00075	-.00478	-.00006	-.00014	.03239	-.00076	.00010	-.01999	-.00003	-.00048	-.03066	-.00140	.00009
#2	-.00023	-.00036	-.00007	-.00016	.03358	-.00043	.00163	-.01540	.00084	-.00102	-.01886	-.00086	.00010
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
High Limit													
Low Limit													

Elem	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm
Avg	**.00026**	**-.00100**	**.00027**	**.00030**
Stddev	.00021	.00008	.00015	.00007
%RSD	79.249	7.8288	56.587	24.327
#1	.00041	-.00105	.00016	.00035
#2	.00011	-.00094	.00038	.00025
Check ?	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	**1061.9**	**4752.1**	**39557.**	**6185.0**
Stddev	7.4	7.0	11.	37.6
%RSD	.69827	.14755	.02759	.60795
#1	1067.2	4757.1	39565.	6158.4
#2	1056.7	4747.1	39550.	6211.6

Sample Name: CCVL Acquired: 5/1/2014 13:59:47 Type: QC
Method: ICAP 2 March 2014(v59) 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	.00529	.19412	.01258	.02052	.00244	.00191	.48451	.00169	.00361	.00376	.01047	.04825
Stddev	.00022	.00339	.00145	.00013	.00005	.00003	.00352	.00005	.00014	.00008	.00032	.00162
%RSD	4.1249	1.7471	11.514	.62996	1.9543	1.4774	.72644	3.2230	3.8790	2.1529	3.0626	3.3637
#1	.00514	.19652	.01360	.02043	.00247	.00189	.48202	.00173	.00371	.00382	.01024	.04939
#2	.00545	.19172	.01155	.02061	.00241	.00193	.48700	.00165	.00351	.00371	.01069	.04710
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	.47697	.03070	.20469	.00296	.00951	1.0241	.00897	.01047	F -.02068	.01872	.02444	.43066
Stddev	.00364	.00022	.00442	.00002	.00023	.0206	.00004	.00108	.00007	.00009	.00153	.02037
%RSD	.76391	.70909	2.1612	.80525	2.3706	2.0145	.41662	10.354	.31965	.46049	6.2614	4.7303
#1	.47439	.03086	.20782	.00294	.00935	1.0095	.00894	.01123	-.02073	.01878	.02552	.41626
#2	.47954	.03055	.20156	.00297	.00966	1.0387	.00899	.00970	-.02063	.01866	.02336	.44507
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
Value									.20000			
Range									-50.000%			

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00805	.00503	.00516	.01872	.00537	.00992
Stddev	.00013	.00009	.00107	.00005	.00037	.00006
%RSD	1.5622	1.7770	20.740	.26536	6.8098	.59147
#1	.00797	.00496	.00592	.01868	.00511	.00997
#2	.00814	.00509	.00440	.01875	.00563	.00988
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	1046.1	4704.0	38999.	6189.7
Stddev	9.0	8.8	339.	19.3
%RSD	.86352	.18654	.86851	.31141
#1	1052.5	4710.2	38760.	6176.0
#2	1039.7	4697.8	39239.	6203.3

Sample Name: 480-58882-d-7-a pds Acquired: 5/1/2014 14:02:35 Type: Unk
Method: ICAP 2 March 2014(v59) 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	**.05066**	**10.576**	**.22452**	**.35656**	**.27404**	**.21474**	**66.114**	**.21179**	**.20650**
Stddev	.00005	.008	.00307	.00037	.00003	.00077	.251	.00021	.00041
%RSD	.09085	.07271	1.3665	.10255	.00948	.35740	.38033	.10008	.19961
#1	.05069	10.570	.22669	.35682	.27406	.21528	66.292	.21194	.20679
#2	.05063	10.581	.22235	.35630	.27403	.21420	65.936	.21164	.20621
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	**.21023**	**.21377**	**10.358**	**12.387**	**.22586**	**27.872**	**.37040**	**.21141**	**34.500**
Stddev	.00049	.00125	.016	.010	.00044	.104	.00146	.00080	.105
%RSD	.23101	.58637	.15740	.08059	.19270	.37351	.39407	.37660	.30309
#1	.21057	.21289	10.346	12.380	.22555	27.945	.37144	.21198	34.574
#2	.20989	.21466	10.370	12.394	.22617	27.798	.36937	.21085	34.426
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	**.20449**	**.20654**	**10.215**	**.21157**	**.21868**	**15.724**	**.16447**	**.44594**	**.21024**
Stddev	.00088	.00009	.003	.00232	.00300	.010	.00058	.00100	.00060
%RSD	.43152	.04313	.02939	1.0978	1.3736	.06334	.35238	.22326	.28700
#1	.20511	.20660	10.213	.20993	.21656	15.717	.16406	.44665	.21066
#2	.20386	.20647	10.218	.21321	.22080	15.731	.16488	.44524	.20981
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	**.20886**	**.21670**	**.21310**
Stddev	.00054	.00003	.00118
%RSD	.25991	.01582	.55168
#1	.20847	.21667	.21393
#2	.20924	.21672	.21227
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	**949.77**	**4572.9**	**37668.**	**6217.8**
Stddev	.70	4.5	10.	13.9
%RSD	.07378	.09869	.02613	.22381
#1	950.27	4576.0	37661.	6227.7
#2	949.28	4569.7	37675.	6208.0

Sample Name: 480-58882-d-7-b ms Acquired: 5/1/2014 14:05:13 Type: Unk
Method: ICAP 2 March 2014(v59) 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	.04970	9.8522	.20796	.34264	.26332	.19981	65.774	.19738	.19295
Stddev	.00013	.1239	.00212	.00344	.00050	.00070	.320	.00251	.00172
%RSD	.25167	1.2579	1.0176	1.0026	.19002	.35252	.48584	1.2697	.89261
#1	.04961	9.9398	.20946	.34507	.26297	.20031	66.000	.19915	.19416
#2	.04979	9.7645	.20646	.34021	.26368	.19931	65.548	.19561	.19173
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	.19835	.20069	9.6191	11.749	.21103	27.615	.39305	.19739	34.093
Stddev	.00103	.00060	.0176	.003	.00073	.131	.00228	.00230	.163
%RSD	.51700	.30087	.18342	.02741	.34375	.47269	.58020	1.1650	.47803
#1	.19763	.20026	9.6315	11.746	.21155	27.522	.39144	.19901	34.208
#2	.19908	.20112	9.6066	11.751	.21052	27.707	.39466	.19576	33.978
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	.19058	.19325	19.897	.19805	.20576	14.446	.18909	.43494	.19702
Stddev	.00160	.00224	.143	.00382	.00001	.073	.00247	.00203	.00052
%RSD	.84099	1.1607	.71629	1.9311	.00435	.50590	1.3078	.46624	.26389
#1	.19171	.19484	19.997	.20075	.20577	14.498	.19083	.43638	.19666
#2	.18944	.19167	19.796	.19534	.20576	14.395	.18734	.43351	.19739
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	.19283	.20271	.20143
Stddev	.00137	.00202	.00202
%RSD	.70890	.99734	1.0014
#1	.19380	.20128	.20000
#2	.19186	.20414	.20285
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	956.07	4621.6	37850.	6291.0
Stddev	.22	25.7	352.	8.9
%RSD	.02342	.55621	.93087	.14173
#1	956.23	4603.4	38099.	6297.3
#2	955.91	4639.8	37601.	6284.7

Sample Name: 480-58882-d-7-c msd Acquired: 5/1/2014 14:07:51 Type: Unk
Method: ICAP 2 March 2014(v59) 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	**.04864**	**10.059**	**.20932**	**.34126**	**.26119**	**.20185**	**66.731**	**.19777**	**.19189**
Stddev	.00009	.012	.00274	.00496	.00125	.00032	.003	.00289	.00266
%RSD	.18522	.12098	1.3080	1.4545	.47873	.15613	.00439	1.4628	1.3847
#1	.04858	10.050	.20739	.33775	.26208	.20208	66.734	.19573	.19001
#2	.04871	10.067	.21126	.34477	.26031	.20163	66.729	.19982	.19377
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	**.19372**	**.19748**	**9.7267**	**11.746**	**.21426**	**27.140**	**.44108**	**.19768**	**34.312**
Stddev	.00237	.00156	.0288	.022	.00077	.008	.00140	.00262	.000
%RSD	1.2243	.79161	.29607	.18631	.35878	.02819	.31833	1.3243	.00044
#1	.19539	.19858	9.7064	11.730	.21480	27.146	.44207	.19583	34.311
#2	.19204	.19637	9.7471	11.761	.21371	27.135	.44009	.19953	34.312
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	**.19010**	**.19436**	**19.757**	**.19923**	**.20510**	**14.586**	**.18793**	**.44194**	**.19650**
Stddev	.00229	.00395	.252	.00244	.00539	.025	.00352	.00036	.00186
%RSD	1.2053	2.0302	1.2774	1.2251	2.6273	.17439	1.8750	.08116	.94722
#1	.18848	.19157	19.578	.19751	.20129	14.568	.18544	.44169	.19782
#2	.19172	.19715	19.935	.20096	.20891	14.604	.19042	.44219	.19519
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	**.19219**	**.19984**	**.19851**
Stddev	.00338	.00259	.00192
%RSD	1.7612	1.2980	.96961
#1	.18979	.20167	.19987
#2	.19458	.19800	.19715
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	**964.07**	**4633.6**	**38065.**	**6235.8**
Stddev	8.87	55.1	51.	43.7
%RSD	.92030	1.1884	.13340	.70036
#1	970.35	4672.5	38029.	6266.7
#2	957.80	4594.6	38101.	6205.0

Sample Name: 480-58882-d-8-a Acquired: 5/1/2014 14:10:36 Type: Unk
Method: ICAP 2 March 2014(v59) 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**	**.86954**	**-.00026**	**.04406**	**.17847**	**-.00012**	**116.65**	**-.00044**	**.00001**
Stddev	.00001	.02464	.00038	.00026	.00027	.00004	.65	.00001	.00004
%RSD	4.0854	2.8340	144.71	.58536	.15149	32.567	.55870	2.9899	456.43
#1	-.00015	.88696	.00001	.04388	.17866	-.00014	117.11	-.00045	-.00002
#2	-.00016	.85211	-.00054	.04425	.17828	-.00009	116.19	-.00043	.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	**.00206**	**.00258**	**.96227**	**3.3739**	**.02646**	**27.174**	**.01771**	**.00140**	**7.3398**
Stddev	.00077	.00048	.00068	.0073	.00188	.015	.00006	.00005	.0421
%RSD	37.106	18.460	.07058	.21717	7.1032	.05463	.35088	3.8016	.57410
#1	.00261	.00291	.96179	3.3688	.02513	27.185	.01766	.00144	7.3696
#2	.00152	.00224	.96275	3.3791	.02779	27.164	.01775	.00136	7.3100
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**	**.00201**	**15.490**	**-.00080**	**-.00135**	**10.378**	**-.00080**	**.30924**	**.01611**
Stddev	.00010	.00059	.013	.00028	.00184	.008	.00036	.00189	.00093
%RSD	9.6137	29.513	.08527	34.833	137.03	.07233	44.380	.61026	5.7446
#1	.00099	.00159	15.500	-.00060	-.00265	10.373	-.00105	.31057	.01545
#2	.00114	.00243	15.481	-.00099	-.00004	10.383	-.00055	.30790	.01676
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	**-.00017**	**.00162**	**.00648**
Stddev	.00038	.00016	.00009
%RSD	229.01	9.8993	1.3832
#1	.00010	.00173	.00642
#2	-.00044	.00150	.00655
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	**965.21**	**4557.0**	**37716.**	**6221.2**
Stddev	.73	15.9	28.	37.3
%RSD	.07553	.34806	.07303	.59879
#1	965.73	4568.2	37697.	6194.9
#2	964.70	4545.8	37736.	6247.6

Sample Name: 480-58882-d-9-a Acquired: 5/1/2014 14:13:24 Type: Unk
Method: ICAP 2 March 2014(v59) 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**	**.11328**	**.00055**	**.06003**	**.04466**	**-.00008**	**139.45**	**-.00017**	**-.00049**
Stddev	.00036	.00963	.00129	.00012	.00016	.00002	1.15	.00009	.00027
%RSD	210.34	8.4999	234.51	.19655	.36209	25.357	.82790	51.483	54.569
#1	.00043	.10647	-.00036	.06012	.04477	-.00010	140.26	-.00024	-.00030
#2	-.00008	.12009	.00147	.05995	.04454	-.00007	138.63	-.00011	-.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	**.00017**	**.00983**	**.51618**	**4.0342**	**.03694**	**40.042**	**.11757**	**.00397**	**227.01**
Stddev	.00041	.00080	.00149	.0272	.00076	.294	.00062	.00008	2.03
%RSD	248.13	8.0907	.28903	.67381	2.0602	.73458	.52979	1.9031	.89336
#1	.00046	.01040	.51513	4.0534	.03640	40.250	.11801	.00402	228.45
#2	-.00013	.00927	.51724	4.0149	.03748	39.834	.11713	.00391	225.58
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	**.00949**	**.00184**	**75.434**	**-.00170**	**-.00111**	**7.0071**	**-.00058**	**.23337**	**.00278**
Stddev	.00052	.00116	.014	.00010	.00049	.0029	.00008	.00193	.00080
%RSD	5.5324	63.104	.01836	5.7488	44.477	.04209	13.327	.82743	28.709
#1	.00986	.00266	75.424	-.00177	-.00146	7.0092	-.00053	.23473	.00222
#2	.00911	.00102	75.444	-.00163	-.00076	7.0050	-.00064	.23200	.00335
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	**.00031**	**-.00065**	**.01618**
Stddev	.00115	.00091	.00007
%RSD	372.12	140.48	.43239
#1	-.00050	.00000	.01613
#2	.00112	-.00130	.01623
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	**893.01**	**4377.1**	**35821.**	**6030.0**
Stddev	.24	.1	152.	54.2
%RSD	.02741	.00124	.42533	.89898
#1	892.84	4377.0	35713.	5991.7
#2	893.19	4377.1	35928.	6068.3

Sample Name: 480-58882-d-10-a Acquired: 5/1/2014 14:16:15 Type: Unk
Method: ICAP 2 March 2014(v59) 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**	**.27261**	**.00871**	**.29419**	**.13642**	**-.00010**	**42.042**	**-.00030**	**-.00024**
Stddev	.00069	.00753	.00111	.00400	.00022	.00023	.224	.00006	.00006
%RSD	699.41	2.7614	12.791	1.3607	.16363	219.38	.53276	19.056	23.976
#1	-.00039	.27793	.00792	.29702	.13658	.00006	42.200	-.00026	-.00020
#2	.00059	.26729	.00949	.29136	.13627	-.00027	41.883	-.00034	-.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	**.00015**	**.00111**	**.38716**	**2.3707**	**.02708**	**11.418**	**.17750**	**-.00027**	**39.373**
Stddev	.00022	.00006	.00175	.0075	.00167	.016	.00053	.00026	.268
%RSD	142.74	5.2348	.45254	.31468	6.1593	.14180	.29757	95.708	.68123
#1	.00031	.00115	.38592	2.3654	.02590	11.429	.17787	-.00045	39.562
#2	.00000	.00107	.38839	2.3759	.02826	11.406	.17712	-.00009	39.183
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**	**.00030**	**4.2845**	**-.00264**	**.00039**	**5.8228**	**-.00074**	**.31159**	**.00528**
Stddev	.00001	.00060	.0533	.00025	.00142	.0012	.00013	.00208	.00128
%RSD	2.1678	196.01	1.2437	9.6338	362.53	.02122	17.503	.66841	24.309
#1	-.00043	-.00012	4.3222	-.00246	-.00061	5.8219	-.00083	.31307	.00619
#2	-.00044	.00072	4.2468	-.00282	.00140	5.8236	-.00065	.31012	.00438
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**	**.00082**	**.00258**
Stddev	.00005	.00034	.00118
%RSD	17.569	41.490	45.932
#1	-.00025	.00058	.00342
#2	-.00032	.00106	.00174
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	**988.45**	**4634.6**	**37633.**	**6115.7**
Stddev	6.38	37.8	44.	29.7
%RSD	.64560	.81595	.11710	.48613
#1	983.93	4607.9	37665.	6094.7
#2	992.96	4661.3	37602.	6136.8

Sample Name: 480-58882-d-11-a Acquired: 5/1/2014 14:18:59 Type: Unk
Method: ICAP 2 March 2014(v59) 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**	**.00839**	**-.00173**	**.01257**	**.31473**	**-.00013**	**89.938**	**-.00039**	**-.00029**
Stddev	.00001	.01149	.00070	.00028	.00088	.00002	.260	.00004	.00019
%RSD	6.3254	136.85	40.480	2.2167	.28007	14.283	.28894	10.007	64.707
#1	.00023	.01651	-.00123	.01238	.31411	-.00014	90.122	-.00036	-.00043
#2	.00021	.00027	-.00222	.01277	.31535	-.00011	89.754	-.00042	-.00016
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	**-.00011**	**.00144**	**.05517**	**2.1322**	**.01554**	**14.335**	**.85710**	**-.00065**	**2.3322**
Stddev	.00019	.00021	.00050	.0027	.00058	.029	.00171	.00011	.0194
%RSD	165.10	14.462	.90195	.12668	3.7032	.20434	.19904	16.892	.83329
#1	.00002	.00159	.05552	2.1341	.01595	14.314	.85589	-.00057	2.3459
#2	-.00025	.00129	.05482	2.1302	.01513	14.355	.85831	-.00072	2.3184
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**	**-.00027**	**8.1272**	**-.00210**	**-.00144**	**4.3175**	**-.00099**	**.17652**	**.00142**
Stddev	.00026	.00077	.1044	.00121	.00077	.0263	.00016	.00008	.00012
%RSD	34.915	283.81	1.2840	57.533	53.338	.61034	16.547	.04456	8.4772
#1	.00094	.00027	8.2010	-.00125	-.00199	4.3362	-.00110	.17657	.00134
#2	.00057	-.00081	8.0534	-.00296	-.00090	4.2989	-.00087	.17646	.00151
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	**.00008**	**.00009**	**.00344**
Stddev	.00116	.00028	.00020
%RSD	1390.8	298.45	5.8393
#1	-.00074	.00029	.00358
#2	.00090	-.00010	.00330
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	**981.85**	**4596.2**	**37979.**	**6241.2**
Stddev	7.42	4.4	272.	4.6
%RSD	.75543	.09534	.71523	.07306
#1	987.09	4593.1	38171.	6238.0
#2	976.60	4599.3	37787.	6244.4

Sample Name: 480-58882-d-12-a Acquired: 5/1/2014 14:21:44 Type: Unk
Method: ICAP 2 March 2014(v59) 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	**.00070**	**3.1052**	**.03034**	**.10057**	**.15486**	**.00001**	**41.435**	**-.00015**	**.00101**
Stddev	.00028	.0221	.00087	.00036	.00480	.00014	.165	.00015	.00008
%RSD	39.993	.71026	2.8620	.35580	3.0964	1121.5	.39719	99.444	8.0866
#1	.00050	3.0896	.02973	.10032	.15825	-.00009	41.319	-.00026	.00106
#2	.00090	3.1208	.03096	.10083	.15147	.00011	41.551	-.00005	.00095
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	**.00377**	**.00417**	**3.6192**	**3.1217**	**.01758**	**12.825**	**.17451**	**.00136**	**12.993**
Stddev	.00008	.00016	.0023	.0006	.00118	.413	.00602	.00015	.073
%RSD	2.1700	3.7292	.06287	.01779	6.6903	3.2165	3.4494	10.725	.56038
#1	.00383	.00428	3.6176	3.1221	.01842	13.117	.17877	.00146	12.941
#2	.00371	.00406	3.6208	3.1213	.01675	12.533	.17026	.00126	13.044
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	**.00360**	**.00187**	**4.3127**	**-.00312**	**.00098**	**10.643**	**.00066**	**.23349**	**.04335**
Stddev	.00023	.00060	.0143	.00154	.00193	.009	.00024	.00181	.00410
%RSD	6.4100	31.863	.33034	49.428	196.26	.08550	36.743	.77669	9.4475
#1	.00376	.00145	4.3026	-.00421	.00235	10.637	.00049	.23220	.04625
#2	.00343	.00229	4.3227	-.00203	-.00038	10.650	.00083	.23477	.04046
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	**.00037**	**.00465**	**.01632**
Stddev	.00018	.00021	.00090
%RSD	47.341	4.5229	5.4935
#1	.00050	.00450	.01696
#2	.00025	.00480	.01569
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	**995.75**	**4662.2**	**38641.**	**6171.4**
Stddev	7.82	8.8	844.	21.4
%RSD	.78504	.18860	2.1846	.34696
#1	990.22	4656.0	38044.	6186.5
#2	1001.3	4668.5	39238.	6156.3

Sample Name: 480-58882-d-13-a Acquired: 5/1/2014 14:24:28 Type: Unk
Method: ICAP 2 March 2014(v59) 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**	**.13490**	**.00061**	**.00676**	**.04104**	**-.00013**	**27.755**	**-.00043**	**-.00033**
Stddev	.00084	.03482	.00044	.00034	.00017	.00014	.004	.00009	.00001
%RSD	1020.0	25.813	72.224	5.0445	.40705	109.37	.01327	20.773	3.9841
#1	.00067	.11027	.00030	.00700	.04115	-.00003	27.757	-.00049	-.00032
#2	-.00051	.15952	.00092	.00652	.04092	-.00023	27.752	-.00036	-.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	**-.00016**	**.00103**	**.14071**	**.36301**	**.00514**	**4.7175**	**.00442**	**-.00037**	**1.1714**
Stddev	.00075	.00021	.00095	.02061	.00050	.0068	.00006	.00019	.0085
%RSD	476.50	20.327	.67687	5.6784	9.7549	.14507	1.3683	52.165	.72503
#1	-.00068	.00118	.14139	.37758	.00550	4.7127	.00438	-.00050	1.1654
#2	.00037	.00088	.14004	.34843	.00479	4.7224	.00447	-.00023	1.1774
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	**-.00040**	**.00023**	**2.2035**	**-.00155**	**-.00229**	**2.9752**	**-.00086**	**.05442**	**.00250**
Stddev	.00005	.00076	.0095	.00056	.00134	.0081	.00011	.00013	.00040
%RSD	11.851	334.90	.43147	35.795	58.566	.27232	12.595	.23721	16.081
#1	-.00037	.00077	2.2102	-.00116	-.00324	2.9695	-.00094	.05433	.00279
#2	-.00043	-.00031	2.1967	-.00195	-.00134	2.9809	-.00078	.05451	.00222
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	**-.00012**	**.00016**	**.00313**
Stddev	.00060	.00007	.00030
%RSD	511.28	40.510	9.4159
#1	-.00054	.00012	.00293
#2	.00031	.00021	.00334
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	**1038.4**	**4755.8**	**39150.**	**6308.2**
Stddev	4.3	12.1	143.	28.7
%RSD	.41869	.25466	.36568	.45439
#1	1035.3	4747.3	39251.	6328.5
#2	1041.5	4764.4	39048.	6287.9

Sample Name: CCV Acquired: 5/1/2014 14:27:18 Type: QC
Method: ICAP 2 March 2014(v59) 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	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.48949**	**24.670**	**.50840**	**.49115**	**.50517**	**.48447**	**24.163**	**.49612**	**.48401**	**.49423**	**.50327**	**24.225**	**24.514**
Stddev	.00207	.126	.00450	.00492	.00035	.00173	.112	.00569	.00679	.00203	.00133	.128	.126
%RSD	.42260	.50874	.88430	1.0020	.06947	.35699	.46336	1.1460	1.4030	.41070	.26480	.52836	.51490
#1	.48803	24.759	.50523	.48767	.50493	.48569	24.243	.49210	.47921	.49280	.50233	24.316	24.603
#2	.49095	24.581	.51158	.49463	.50542	.48325	24.084	.50014	.48881	.49567	.50421	24.135	24.425
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
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	**.50126**	**25.014**	**.50625**	**.50670**	**24.371**	**.49131**	**.48974**	**24.227**	**.51184**	**.50229**	**24.419**	**.48312**	**.48913**
Stddev	.00011	.029	.00096	.00483	.099	.00666	.00561	.260	.00547	.00686	.078	.00447	.00182
%RSD	.02259	.11609	.19006	.95346	.40478	1.3553	1.1458	1.0743	1.0682	1.3660	.31935	.92564	.37249
#1	.50118	24.994	.50557	.50329	24.440	.48660	.48577	24.043	.50798	.49744	24.364	.47996	.49041
#2	.50134	25.035	.50693	.51012	24.301	.49602	.49370	24.411	.51571	.50714	24.474	.48628	.48784
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
Value													
Range													

Elem	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm
Avg	**.50656**	**.48980**	**.49571**	**.50476**
Stddev	.00362	.00227	.00224	.00248
%RSD	.71502	.46412	.45201	.49117
#1	.50400	.48819	.49413	.50301
#2	.50912	.49140	.49730	.50652
Check ?	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	**978.88**	**4701.6**	**37998.**	**6194.9**
Stddev	12.60	51.1	125.	5.9
%RSD	1.2872	1.0869	.33026	.09565
#1	987.79	4737.8	38087.	6190.7
#2	969.97	4665.5	37909.	6199.1

Sample Name: CCB Acquired: 5/1/2014 14:29:57 Type: QC
Method: ICAP 2 March 2014(v59) 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	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00016**	**.00015**	**-.00220**	**-.00024**	**.00002**	**-.00018**	**.00377**	**-.00031**	**-.00044**	**-.00008**	**.00017**	**.00036**	**.01398**
Stddev	.00007	.03514	.00012	.00027	.00000	.00005	.00204	.00012	.00015	.00033	.00056	.00189	.03837
%RSD	46.213	22716.	5.3155	109.61	16.795	30.251	54.074	37.982	33.655	406.21	320.09	530.09	274.36
#1	-.00021	.02500	-.00228	-.00005	.00002	-.00014	.00521	-.00023	-.00034	-.00031	-.00022	-.00098	.04112
#2	-.00011	-.02469	-.00211	-.00043	.00002	-.00021	.00233	-.00039	-.00055	.00015	.00057	.00169	-.01315
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
High Limit													
Low Limit													

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	**.00127**	**.00338**	**-.00004**	**-.00011**	**.02610**	**-.00073**	**-.00060**	**-.01841**	**-.00102**	**-.00092**	**-.04959**	**-.00069**	**.00002**
Stddev	.00062	.00478	.00006	.00001	.00351	.00039	.00032	.00484	.00030	.00183	.01167	.00035	.00009
%RSD	49.138	141.49	160.66	5.7538	13.457	54.188	53.393	26.274	29.426	198.06	23.539	50.269	460.74
#1	.00083	.00000	-.00008	-.00011	.02361	-.00045	-.00038	-.01499	-.00081	.00037	-.05785	-.00044	.00009
#2	.00171	.00675	.00000	-.00012	.02858	-.00100	-.00083	-.02183	-.00123	-.00221	-.04134	-.00094	-.00005
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
High Limit													
Low Limit													

Elem	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm
Avg	**.00090**	**-.00077**	**.00024**	**.00027**
Stddev	.00003	.00100	.00001	.00004
%RSD	3.5419	129.44	4.1417	15.321
#1	.00092	-.00007	.00023	.00030
#2	.00088	-.00147	.00025	.00024
Check ?	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	**1041.5**	**4663.4**	**38818.**	**6256.2**
Stddev	5.8	25.4	83.	220.3
%RSD	.56016	.54403	.21301	3.5209
#1	1045.6	4681.4	38760.	6100.4
#2	1037.3	4645.5	38877.	6411.9

Sample Name: CCVL Acquired: 5/1/2014 14:32:48 Type: QC
Method: ICAP 2 March 2014(v59) 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	**.00572**	**.18536**	**.01206**	**.02021**	**.00234**	**.00192**	**.47754**	**.00158**	**.00346**	**.00420**	**.01013**	**.04993**
Stddev	.00022	.00943	.00044	.00062	.00003	.00015	.00353	.00024	.00006	.00018	.00041	.00148
%RSD	3.9005	5.0854	3.6888	3.0734	1.4514	8.0521	.73884	15.031	1.6091	4.2971	3.9978	2.9709
#1	.00588	.17870	.01175	.02065	.00231	.00181	.48003	.00141	.00349	.00408	.00984	.05098
#2	.00557	.19203	.01238	.01977	.00236	.00203	.47504	.00175	.00342	.00433	.01042	.04888
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	**.50972**	**.03055**	**.20255**	**.00301**	**.00941**	**1.0039**	**.00854**	**.00979**	F **-.02148**	**.01851**	**.02584**	**.43171**
Stddev	.02834	.00146	.00088	.00008	.00012	.0029	.00027	.00014	.00089	.00074	.00118	.02052
%RSD	5.5604	4.7683	.43561	2.6440	1.3137	.28584	3.1694	1.4090	4.1459	3.9755	4.5638	4.7544
#1	.48968	.02952	.20317	.00295	.00950	1.0019	.00873	.00970	-.02211	.01799	.02667	.41719
#2	.52976	.03158	.20192	.00306	.00932	1.0059	.00835	.00989	-.02085	.01903	.02500	.44622
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
Value									.20000			
Range									-50.000%			

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00800**	**.00488**	**.00534**	**.01899**	**.00542**	**.01007**
Stddev	.00054	.00000	.00011	.00017	.00026	.00003
%RSD	6.7381	.09964	2.0204	.91941	4.7796	.31286
#1	.00838	.00488	.00541	.01887	.00560	.01010
#2	.00762	.00488	.00526	.01911	.00524	.01005
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	**1056.7**	**4750.7**	**39077.**	**6150.6**
Stddev	8.1	27.4	196.	18.0
%RSD	.76464	.57590	.50074	.29311
#1	1051.0	4731.4	39215.	6163.4
#2	1062.4	4770.1	38939.	6137.9

Sample Name: 480-58882-d-14-a Acquired: 5/1/2014 14:35:34 Type: Unk
Method: ICAP 2 March 2014(v59) 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**	**.38423**	**.00920**	**.10856**	**.10803**	**-.00012**	**41.086**	**-.00020**	**-.00018**
Stddev	.00098	.03668	.00048	.00085	.00022	.00002	.231	.00005	.00005
%RSD	544.68	9.5470	5.1697	.78083	.20391	13.168	.56195	24.649	27.786
#1	-.00087	.41017	.00886	.10796	.10818	-.00011	41.249	-.00023	-.00014
#2	.00051	.35830	.00954	.10916	.10787	-.00014	40.923	-.00016	-.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	**.00016**	**.00113**	**.37344**	**2.8396**	**.01477**	**12.659**	**.08895**	**.00193**	**15.346**
Stddev	.00018	.00037	.00037	.0134	.00031	.099	.00061	.00003	.047
%RSD	115.32	32.977	.09866	.47061	2.1287	.78002	.68882	1.6970	.30313
#1	.00028	.00087	.37318	2.8490	.01499	12.590	.08852	.00195	15.379
#2	.00003	.00140	.37371	2.8301	.01454	12.729	.08938	.00190	15.313
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**	**.00127**	**5.0789**	**-.00075**	**.00308**	**6.9254**	**-.00095**	**.31252**	**.00637**
Stddev	.00063	.00034	.0739	.00019	.00230	.0273	.00023	.00042	.00074
%RSD	475.43	27.050	1.4547	25.146	74.610	.39388	24.532	.13285	11.676
#1	-.00031	.00152	5.0266	-.00089	.00146	6.9061	-.00078	.31281	.00585
#2	.00058	.00103	5.1311	-.00062	.00471	6.9447	-.00111	.31222	.00690
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	**-.00106**	**.00051**	**.00367**
Stddev	.00191	.00005	.00081
%RSD	180.95	10.025	22.116
#1	.00030	.00047	.00425
#2	-.00241	.00054	.00310
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	**1002.7**	**4660.4**	**38231.**	**6216.5**
Stddev	3.4	28.9	42.	34.5
%RSD	.33665	.62004	.10994	.55502
#1	1000.3	4680.9	38260.	6192.1
#2	1005.1	4640.0	38201.	6240.9

Sample Name: 480-58882-d-15-a Acquired: 5/1/2014 14:38:19 Type: Unk
Method: ICAP 2 March 2014(v59) 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**	**.03348**	**.00036**	**.00992**	**.11949**	**-.00011**	**38.590**	**-.00045**	**-.00048**
Stddev	.00004	.02475	.00209	.00023	.00005	.00013	.469	.00001	.00005
%RSD	7.0679	73.944	574.18	2.3089	.03981	122.43	1.2165	2.8896	9.7859
#1	.00047	.01597	.00184	.00976	.11952	-.00020	38.258	-.00044	-.00045
#2	.00052	.05098	-.00111	.01009	.11945	-.00001	38.922	-.00045	-.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	**-.00030**	**.00239**	**.04694**	**1.1037**	**.01506**	**9.8926**	**.00262**	**.00130**	**9.1311**
Stddev	.00077	.00039	.00060	.0349	.00057	.1775	.00006	.00018	.0669
%RSD	256.05	16.230	1.2694	3.1646	3.7709	1.7945	2.3257	13.659	.73309
#1	.00024	.00212	.04736	1.0790	.01547	9.7671	.00266	.00143	9.0837
#2	-.00084	.00267	.04652	1.1284	.01466	10.018	.00258	.00118	9.1784
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	**-.00002**	**.00153**	**5.5137**	**-.00118**	**-.00013**	**4.6877**	**-.00105**	**.13389**	**.00132**
Stddev	.00012	.00006	.0602	.00073	.00382	.1113	.00024	.00269	.00007
%RSD	540.34	3.6583	1.0928	61.652	2920.8	2.3746	22.753	2.0057	5.4081
#1	-.00011	.00157	5.5563	-.00066	.00257	4.6090	-.00122	.13199	.00127
#2	.00006	.00149	5.4711	-.00169	-.00283	4.7664	-.00088	.13579	.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	**-.00075**	**.00042**	**.00379**
Stddev	.00016	.00039	.00026
%RSD	21.063	92.583	6.8386
#1	-.00064	.00070	.00361
#2	-.00086	.00015	.00398
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	**1014.2**	**4666.7**	**38576.**	**6275.8**
Stddev	4.9	26.5	29.	37.8
%RSD	.48773	.56772	.07609	.60253
#1	1010.7	4648.0	38596.	6302.6
#2	1017.7	4685.4	38555.	6249.1

Sample Name: 480-58882-d-16-a Acquired: 5/1/2014 14:41:03 Type: Unk
Method: ICAP 2 March 2014(v59) 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	**-.00080**	**1.8274**	**-.00010**	**.00531**	**.05897**	**-.00006**	**37.493**	**-.00035**	**.00034**
Stddev	.00035	.0035	.00042	.00012	.00024	.00016	.066	.00003	.00003
%RSD	44.105	.19267	403.00	2.2900	.41425	280.88	.17719	8.7529	9.1276
#1	-.00105	1.8249	.00019	.00540	.05914	-.00017	37.446	-.00037	.00036
#2	-.00055	1.8299	-.00040	.00522	.05879	.00006	37.540	-.00032	.00032
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	**.00194**	**.00314**	**1.9704**	**.91270**	**.00966**	**4.9357**	**.02551**	**-.00035**	**2.0377**
Stddev	.00025	.00070	.0129	.02423	.00031	.0262	.00000	.00026	.0159
%RSD	12.893	22.414	.65535	2.6542	3.2593	.53032	.01462	73.958	.78096
#1	.00211	.00364	1.9612	.92983	.00943	4.9542	.02551	-.00054	2.0265
#2	.00176	.00264	1.9795	.89557	.00988	4.9172	.02552	-.00017	2.0490
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**	**.00095**	**3.6714**	**-.00057**	**-.00131**	**5.3519**	**-.00081**	**.06464**	**.02242**
Stddev	.00013	.00033	.0290	.00167	.00061	.0624	.00012	.00038	.00076
%RSD	8.1620	35.067	.78888	293.82	46.859	1.1655	14.691	.59141	3.3800
#1	.00146	.00071	3.6919	.00061	-.00174	5.3078	-.00090	.06437	.02296
#2	.00164	.00118	3.6510	-.00175	-.00087	5.3960	-.00073	.06491	.02189
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	**.00010**	**.00300**	**.00866**
Stddev	.00152	.00028	.00091
%RSD	1551.0	9.2394	10.508
#1	-.00098	.00280	.00802
#2	.00117	.00320	.00930
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	**1026.7**	**4730.4**	**38711.**	**6203.1**
Stddev	7.9	1.5	39.	4.4
%RSD	.77076	.03226	.10010	.07090
#1	1032.3	4729.3	38738.	6206.2
#2	1021.1	4731.5	38683.	6200.0

Sample Name: 480-58882-d-17-a Acquired: 5/1/2014 14:43:48 Type: Unk
Method: ICAP 2 March 2014(v59) 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**	**.31986**	**-.00018**	**.11465**	**.19336**	**-.00010**	**201.27**	**-.00033**	**-.00039**
Stddev	.00025	.01016	.00019	.00024	.00088	.00014	1.11	.00029	.00017
%RSD	252.82	3.1778	104.47	.20778	.45417	136.57	.55369	89.545	44.669
#1	-.00028	.31268	-.00031	.11482	.19274	.00000	202.06	-.00012	-.00027
#2	.00008	.32705	-.00005	.11448	.19399	-.00020	200.48	-.00054	-.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	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	**-.00004**	**.00282**	**.40989**	**1.4816**	**.03823**	**54.198**	**.03288**	**-.00039**	**127.21**
Stddev	.00028	.00062	.00280	.0260	.00116	.088	.00006	.00011	.29
%RSD	727.06	21.820	.68229	1.7534	3.0396	.16244	.19719	27.079	.22972
#1	.00016	.00239	.40792	1.5000	.03741	54.135	.03293	-.00047	127.00
#2	-.00024	.00326	.41187	1.4633	.03905	54.260	.03284	-.00032	127.41
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	**.00208**	**-.00064**	**20.598**	**-.00267**	**-.00085**	**9.4591**	**-.00058**	**.25474**	**.00620**
Stddev	.00004	.00038	.063	.00069	.00214	.0376	.00032	.00157	.00017
%RSD	1.7788	60.299	.30377	25.749	251.76	.39725	55.616	.61775	2.6807
#1	.00206	-.00091	20.642	-.00218	-.00236	9.4325	-.00081	.25585	.00632
#2	.00211	-.00036	20.553	-.00315	.00066	9.4856	-.00035	.25363	.00608
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	**-.00118**	**.00050**	**.00352**
Stddev	.00117	.00010	.00025
%RSD	98.572	20.102	7.1436
#1	-.00036	.00042	.00334
#2	-.00201	.00057	.00369
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	**896.51**	**4367.0**	**36337.**	**6149.0**
Stddev	1.18	6.6	61.	39.6
%RSD	.13155	.15023	.16806	.64366
#1	897.34	4362.3	36380.	6121.0
#2	895.68	4371.6	36294.	6177.0

Sample Name: blank Acquired: 5/1/2014 14:46:33 Type: Unk
Method: ICAP 2 March 2014(v59) 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**	**-.00885**	**-.00099**	**.00163**	**.00031**	**.00000**	**.03278**	**.00031**	**-.00092**
Stddev	.00016	.00869	.00052	.00022	.00002	.00006	.00323	.00000	.00013
%RSD	137.23	98.187	52.280	13.689	6.0715	1409.0	9.8473	1.6056	14.309
#1	-.00023	-.00271	-.00136	.00179	.00030	-.00004	.03050	.00031	-.00083
#2	.00000	-.01500	-.00062	.00147	.00032	.00005	.03506	.00031	-.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	**.00004**	**.00072**	**.00187**	**-.01274**	**.00064**	**.00545**	**-.00018**	**.00040**	**.06413**
Stddev	.00026	.00008	.00295	.00612	.00015	.00303	.00000	.00011	.00468
%RSD	595.54	11.624	158.05	48.061	23.047	55.679	.68561	28.136	7.2935
#1	.00023	.00066	.00396	-.00841	.00053	.00330	-.00018	.00048	.06744
#2	-.00014	.00078	-.00022	-.01707	.00074	.00760	-.00018	.00032	.06083
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**	**.00118**	**-.01895**	**.00268**	**.00118**	**-.02242**	**.00014**	**-.00003**	**-.00030**
Stddev	.00022	.00101	.00354	.00058	.00248	.01528	.00023	.00001	.00090
%RSD	315.59	85.155	18.685	21.837	210.22	68.163	157.66	24.180	299.66
#1	.00009	.00047	-.01645	.00226	-.00057	-.01162	-.00002	-.00003	.00034
#2	-.00023	.00189	-.02146	.00309	.00293	-.03323	.00030	-.00004	-.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	**-.00554**	**.00008**	**.00414**
Stddev	.00031	.00070	.00086
%RSD	5.5392	836.85	20.651
#1	-.00575	-.00041	.00354
#2	-.00532	.00057	.00475
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	**993.78**	**4143.9**	**36145.**	**5704.5**
Stddev	1.54	8.7	83.	49.7
%RSD	.15523	.21089	.23025	.87195
#1	992.69	4137.8	36204.	5669.3
#2	994.88	4150.1	36086.	5739.7

Sample Name: LB 480-178938/1-B Acquired: 5/1/2014 14:49:22 Type: Unk
Method: ICAP 2 March 2014(v59) 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**	**.04745**	**-.00163**	**.00681**	F **.00406**	**-.00014**	**.16134**	**-.00048**	**-.00057**
Stddev	.00039	.00907	.00086	.00016	.00001	.00011	.00143	.00041	.00007
%RSD	61.226	19.109	52.620	2.3458	.33453	82.971	.88621	85.976	12.201
#1	-.00092	.04104	-.00224	.00669	.00405	-.00022	.16033	-.00019	-.00052
#2	-.00037	.05386	-.00102	.00692	.00407	-.00006	.16236	-.00077	-.00062
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					.00200				
Low Limit					-.00300				

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	**.00234**	**.00356**	**.01558**	F **.67502**	**.00257**	**.03205**	F **.00314**	**.00118**	F **1428.4**
Stddev	.00019	.00031	.00154	.02822	.00054	.00438	.00012	.00034	7.1
%RSD	8.0871	8.6787	9.8894	4.1805	20.917	13.662	3.8374	28.823	.49843
#1	.00248	.00378	.01449	.65507	.00295	.02895	.00305	.00094	1433.5
#2	.00221	.00334	.01667	.69498	.00219	.03514	.00322	.00142	1423.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail
High Limit				.50000			.00300		1.0000
Low Limit				-.50000			-.00300		-.50000

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	**.00294**	**.00026**	**.00910**	**-.00225**	**.00000**	**.00576**	**.00034**	**.00151**	**.00058**
Stddev	.00007	.00039	.00096	.00040	.00411	.00577	.00076	.00011	.00051
%RSD	2.3465	152.29	10.587	17.750	378740.	100.28	225.44	7.2006	87.732
#1	.00299	.00053	.00842	-.00197	-.00291	.00984	-.00020	.00158	.00022
#2	.00289	-.00002	.00978	-.00253	.00291	.00168	.00087	.00143	.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	**-.00224**	**.00026**	F **.01055**
Stddev	.00153	.00056	.00065
%RSD	68.182	217.97	6.1719
#1	-.00332	-.00014	.01101
#2	-.00116	.00066	.01009
Check ?	Chk Pass	Chk Pass	Chk Fail
High Limit			.01000
Low Limit			-.00300

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	**823.31**	**4282.4**	**34061.**	**6090.5**
Stddev	7.29	43.1	268.	2.4
%RSD	.88485	1.0060	.78657	.03880
#1	828.46	4312.8	34251.	6092.2
#2	818.16	4251.9	33872.	6088.8

Sample Name: MB 480-179139/2-A Acquired: 5/1/2014 14:52:16 Type: Unk
Method: ICAP 2 March 2014(v59) 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**	**.03461**	**-.00191**	**-.00011**	**.00033**	**-.00008**	**.02668**	**-.00046**	**-.00040**
Stddev	.00039	.02507	.00003	.00016	.00001	.00000	.00741	.00011	.00010
%RSD	213.44	72.428	1.3154	153.25	4.1559	3.7660	27.779	24.647	24.821
#1	.00046	.05234	-.00189	.00001	.00032	-.00008	.02144	-.00054	-.00033
#2	-.00009	.01689	-.00193	-.00022	.00033	-.00008	.03192	-.00038	-.00047
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**	**.00112**	**.00019**	**.01640**	**.00079**	**.00856**	**.00203**	**-.00047**	F **2.1386**
Stddev	.00043	.00009	.00306	.01665	.00161	.00351	.00006	.00004	2.7329
%RSD	1151.8	8.0540	1620.7	101.51	203.25	41.013	2.8088	8.3765	127.79
#1	-.00034	.00118	-.00198	.00463	.00193	.00608	.00199	-.00050	.20615
#2	.00027	.00105	.00235	.02817	-.00035	.01104	.00207	-.00045	4.0710
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit									1.0000
Low Limit									-.50000

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**	**.00074**	**-.02339**	**-.00006**	**.00372**	**-.04504**	**-.00057**	**.00016**	**.00041**
Stddev	.00003	.00070	.00005	.00245	.00082	.00495	.00010	.00001	.00009
%RSD	5.0760	94.949	.21812	4341.7	22.107	10.981	17.109	6.9309	21.869
#1	-.00065	.00123	-.02335	.00168	.00314	-.04154	-.00050	.00016	.00048
#2	-.00061	.00024	-.02343	-.00179	.00430	-.04854	-.00063	.00015	.00035
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**	**-.00005**	**.00125**
Stddev	.00006	.00024	.00027
%RSD	36.524	444.63	21.602
#1	.00012	-.00022	.00106
#2	.00020	.00011	.00144
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	**1073.2**	**4782.9**	**39430.**	**6205.3**
Stddev	4.3	9.7	122.	25.5
%RSD	.39857	.20330	.30875	.41129
#1	1076.2	4789.7	39344.	6187.3
#2	1070.2	4776.0	39516.	6223.4

Sample Name: LCS 480-179139/3-A Acquired: 5/1/2014 14:55:02 Type: Unk
Method: ICAP 2 March 2014(v59) 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	**1.0453**	**-.10514**	**1.0928**	**-.00169**	**.96993**	**.96926**	**.17456**	**1.0439**	**1.0182**
Stddev	.0036	.02645	.0026	.00025	.00933	.00718	.00661	.0020	.0023
%RSD	.33920	25.157	.23962	14.533	.96162	.74060	3.7878	.19051	.22308
#1	1.0478	-.08644	1.0909	-.00152	.97653	.97434	.16989	1.0425	1.0166
#2	1.0428	-.12385	1.0946	-.00187	.96334	.96418	.17924	1.0453	1.0198
Check ?	Chk Pass	None	Chk Pass	None	Chk Pass	Chk Pass	None	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	**.99413**	**1.0058**	**.01535**	**.72799**	**.00123**	**.04333**	**.97494**	**.98075**	**1464.4**
Stddev	.00421	.0044	.00162	.08354	.00180	.00243	.00530	.00010	15.3
%RSD	.42362	.43706	10.555	11.476	146.50	5.6137	.54359	.01049	1.0464
#1	.99711	1.0089	.01649	.66892	.00250	.04505	.97868	.98068	1475.3
#2	.99115	1.0027	.01420	.78706	-.00004	.04161	.97119	.98083	1453.6
Check ?	Chk Pass	Chk Pass	None	None	None	None	Chk Pass	Chk Pass	None
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	**1.0209**	**1.0150**	**.00716**	**1.0260**	**1.1009**	**-.01165**	**-.00008**	**.96194**	**.00141**
Stddev	.0036	.0023	.00181	.0034	.0001	.02029	.00004	.00940	.00039
%RSD	.35211	.22326	25.265	.33611	.01138	174.18	55.970	.97750	27.338
#1	1.0184	1.0134	.00844	1.0284	1.1008	.00270	-.00011	.96858	.00114
#2	1.0235	1.0166	.00588	1.0235	1.1010	-.02600	-.00005	.95529	.00168
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	None	None	None	None
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	**.95450**	**1.0489**	**1.1102**
Stddev	.00023	.0005	.0009
%RSD	.02386	.04897	.07773
#1	.95466	1.0493	1.1108
#2	.95434	1.0486	1.1096
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	**806.26**	**4228.3**	**33436.**	**5987.6**
Stddev	1.79	4.2	151.	46.3
%RSD	.22234	.10045	.45219	.77343
#1	807.53	4231.3	33329.	5954.9
#2	805.00	4225.3	33543.	6020.4

Sample Name: blank Acquired: 5/1/2014 14:57:49 Type: Unk
Method: ICAP 2 March 2014(v59) 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**	**-.00443**	**-.00161**	**-.00094**	**.00026**	**-.00017**	**.00038**	**-.00026**	**-.00048**
Stddev	.00079	.02837	.00018	.00033	.00004	.00009	.00506	.00002	.00013
%RSD	222.98	640.70	11.338	34.552	15.561	55.611	1341.9	7.6402	28.380
#1	.00021	-.02449	-.00174	-.00117	.00029	-.00023	-.00320	-.00028	-.00057
#2	-.00092	.01563	-.00148	-.00071	.00023	-.00010	.00396	-.00025	-.00038
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	**-.00026**	**.00039**	**-.00233**	**.07344**	**.00225**	**.00380**	**-.00013**	**.00009**	**.22116**
Stddev	.00020	.00019	.00427	.04946	.00047	.00266	.00000	.00005	.02624
%RSD	74.619	48.571	182.96	67.345	20.945	70.120	1.4272	55.720	11.867
#1	-.00012	.00052	-.00535	.03847	.00192	.00192	-.00014	.00005	.23971
#2	-.00040	.00025	.00069	.10841	.00259	.00568	-.00013	.00012	.20260
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	**-.00041**	**-.00050**	**-.02426**	**.00524**	**-.00054**	**-.08056**	**-.00084**	**-.00004**	**.00037**
Stddev	.00000	.00098	.00012	.00035	.00075	.00777	.00013	.00005	.00018
%RSD	1.1464	193.94	.49257	6.7226	138.98	9.6457	15.186	128.72	47.728
#1	-.00041	-.00119	-.02417	.00499	-.00001	-.08605	-.00093	-.00007	.00024
#2	-.00042	.00019	-.02434	.00549	-.00107	-.07506	-.00075	.00000	.00049
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	**.00055**	**.00028**	**.00056**
Stddev	.00095	.00040	.00007
%RSD	175.13	141.92	11.878
#1	-.00013	.00057	.00051
#2	.00122	.00000	.00061
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	**1072.4**	**4777.1**	**39501.**	**6223.1**
Stddev	6.0	25.9	5.	21.7
%RSD	.55863	.54195	.01158	.34901
#1	1076.6	4795.4	39504.	6207.7
#2	1068.1	4758.8	39497.	6238.4

Sample Name: CCV Acquired: 5/1/2014 15:00:40 Type: QC
Method: ICAP 2 March 2014(v59) 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	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.49929	24.616	.51856	.49909	.51005	.48447	24.196	.50913	.50055	.50616	.50922	24.185	24.661
Stddev	.00131	.226	.00583	.00551	.00949	.00244	.136	.00351	.00137	.00172	.00185	.051	.165
%RSD	.26225	.91798	1.1247	1.1049	1.8602	.50264	.56319	.68967	.27391	.33999	.36241	.20907	.66934
#1	.49836	24.775	.52268	.50299	.50334	.48619	24.292	.51162	.50152	.50494	.50792	24.221	24.778
#2	.50021	24.456	.51443	.49519	.51676	.48275	24.100	.50665	.49958	.50737	.51053	24.149	24.544
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
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	.50097	25.543	.51379	.51829	24.414	.50541	.50530	24.819	.52211	.51462	24.368	.49768	.49042
Stddev	.00057	.125	.00173	.00759	.155	.00427	.00674	.119	.00793	.01494	.061	.00618	.00255
%RSD	.11280	.48771	.33759	1.4646	.63392	.84537	1.3332	.47808	1.5179	2.9029	.24872	1.2423	.51898
#1	.50137	25.455	.51256	.52366	24.523	.50843	.51006	24.903	.52771	.52518	24.325	.50205	.49222
#2	.50057	25.631	.51501	.51293	24.304	.50239	.50054	24.735	.51651	.50405	24.411	.49331	.48862
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
Value													
Range													

Elem	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm
Avg	.51488	.50555	.50491	.51549
Stddev	.00072	.00433	.00159	.00134
%RSD	.14041	.85620	.31570	.26080
#1	.51437	.50861	.50378	.51454
#2	.51539	.50249	.50604	.51644
Check ?	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	955.04	4611.7	37639.	6210.6
Stddev	.26	27.0	176.	2.5
%RSD	.02675	.58608	.46642	.03976
#1	955.22	4592.6	37763.	6208.8
#2	954.86	4630.8	37515.	6212.3

Sample Name: CCB Acquired: 5/1/2014 15:03:18 Type: QC
Method: ICAP 2 March 2014(v59) 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	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00006**	**-.01705**	**-.00227**	**-.00075**	**.00002**	**-.00006**	**-.00081**	**-.00049**	**-.00045**	**.00007**	**.00031**	**.00041**	**.01425**
Stddev	.00026	.01779	.00133	.00043	.00001	.00003	.00203	.00009	.00008	.00044	.00024	.00100	.00949
%RSD	431.78	104.35	58.575	57.646	29.098	51.123	250.18	17.323	17.364	637.37	76.376	246.34	66.608
#1	-.00012	-.02963	-.00321	-.00044	.00002	-.00004	.00063	-.00043	-.00040	-.00024	.00014	.00111	.00754
#2	.00024	-.00447	-.00133	-.00105	.00002	-.00008	-.00225	-.00056	-.00051	.00038	.00048	-.00030	.02096
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
High Limit													
Low Limit													

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	**.00067**	**.00385**	**.00002**	**.00002**	**.08319**	**-.00061**	**-.00031**	**-.02315**	**-.00037**	**.00066**	**-.06130**	**-.00112**	**.00003**
Stddev	.00026	.00358	.00007	.00027	.00752	.00028	.00056	.00022	.00031	.00094	.01395	.00045	.00002
%RSD	38.156	93.033	376.78	1341.4	9.0355	46.327	181.91	.95734	82.485	143.46	22.759	39.989	75.929
#1	.00085	.00132	-.00003	-.00017	.07788	-.00081	-.00071	-.02331	-.00059	.00132	-.05143	-.00144	.00001
#2	.00049	.00639	.00006	.00021	.08851	-.00041	.00009	-.02299	-.00016	-.00001	-.07116	-.00080	.00004
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
High Limit													
Low Limit													

Elem	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm
Avg	**.00011**	**-.00079**	**.00020**	**.00023**
Stddev	.00025	.00208	.00011	.00060
%RSD	224.23	263.80	53.562	265.43
#1	-.00007	.00068	.00013	-.00020
#2	.00029	-.00226	.00028	.00066
Check ?	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	**1072.9**	**4774.1**	**39525.**	**6175.5**
Stddev	4.0	32.8	105.	6.1
%RSD	.37385	.68716	.26516	.09876
#1	1075.7	4797.3	39599.	6171.2
#2	1070.0	4750.9	39451.	6179.8

Sample Name: CCVL Acquired: 5/1/2014 15:06:10 Type: QC
Method: ICAP 2 March 2014(v59) 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	.00550	.14960	.01292	.01950	.00240	.00199	.48089	.00163	.00347	.00381	.01082	.05300
Stddev	.00027	.02729	.00055	.00009	.00000	.00001	.00203	.00004	.00005	.00039	.00020	.00667
%RSD	4.8946	18.242	4.2809	.46845	.10173	.38653	.42172	2.2904	1.4987	10.310	1.8050	12.580
#1	.00531	.16890	.01253	.01956	.00240	.00199	.48233	.00161	.00351	.00408	.01068	.05772
#2	.00569	.13031	.01331	.01943	.00240	.00198	.47946	.00166	.00344	.00353	.01096	.04829
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	.48148	.03175	.20424	.00307	.00961	1.0528	.00891	.00871	F -.02401	.01900	.02567	.42681
Stddev	.02049	.00045	.00475	.00001	.00013	.0055	.00016	.00047	.00048	.00128	.00261	.00697
%RSD	4.2550	1.4234	2.3264	.29059	1.3576	.52010	1.7991	5.4268	2.0109	6.7571	10.181	1.6336
#1	.49596	.03143	.20760	.00306	.00952	1.0567	.00880	.00904	-.02367	.01991	.02752	.42188
#2	.46699	.03206	.20088	.00307	.00971	1.0489	.00902	.00838	-.02436	.01809	.02383	.43174
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
Value									.20000			
Range									-50.000%			

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00786	.00485	.00521	.01798	.00532	.01030
Stddev	.00080	.00005	.00031	.00066	.00039	.00031
%RSD	10.116	1.0746	5.8985	3.6650	7.2830	3.0476
#1	.00730	.00481	.00543	.01751	.00560	.01008
#2	.00842	.00489	.00499	.01844	.00505	.01052
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	1067.5	4775.2	39564.	6242.0
Stddev	2.4	4.1	48.	58.0
%RSD	.22820	.08674	.12141	.92912
#1	1069.2	4772.3	39598.	6201.0
#2	1065.8	4778.1	39530.	6283.0

Sample Name: 480-58735-A-1-B Acquired: 5/1/2014 15:08:56 Type: Unk
Method: ICAP 2 March 2014(v59) 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**	**.24360**	**.00122**	**.03124**	**.19101**	**-.00009**	**197.65**	**.00433**	**.02813**
Stddev	.00021	.02236	.00186	.00029	.00026	.00001	3.14	.00021	.00054
%RSD	134.65	9.1789	153.05	.94429	.13822	10.666	1.5876	4.8614	1.9292
#1	.00030	.25942	-.00010	.03144	.19083	-.00010	195.43	.00448	.02852
#2	.00001	.22779	.00254	.03103	.19120	-.00008	199.87	.00418	.02775
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	**.00969**	**.06338**	**30.209**	**4.1811**	**.01909**	**6.9182**	**1.0282**	**.00025**	**1460.0**
Stddev	.00013	.00145	.456	.1643	.00161	.1261	.0003	.00020	20.9
%RSD	1.3719	2.2951	1.5092	3.9294	8.4470	1.8232	.03169	79.513	1.4284
#1	.00960	.06235	29.887	4.0649	.01795	6.8290	1.0280	.00011	1445.2
#2	.00979	.06441	30.532	4.2972	.02023	7.0074	1.0285	.00039	1474.7
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	**.02591**	**.53664**	**1.6154**	**-.00210**	**.00066**	**1.2406**	**.00579**	**.24930**	**.00919**
Stddev	.00018	.00424	.0151	.00102	.00079	.0232	.00010	.00441	.00017
%RSD	.69106	.78971	.93259	48.457	121.10	1.8662	1.8031	1.7682	1.8104
#1	.02603	.53964	1.6260	-.00138	.00122	1.2243	.00586	.24618	.00931
#2	.02578	.53365	1.6047	-.00282	.00009	1.2570	.00571	.25242	.00908
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	**-.00248**	**.00328**	**2.3945**
Stddev	.00255	.00006	.0277
%RSD	102.78	1.7096	1.1561
#1	-.00068	.00324	2.3749
#2	-.00428	.00332	2.4140
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	**777.71**	**4169.6**	**33339.**	**6106.5**
Stddev	4.79	10.6	79.	61.1
%RSD	.61590	.25311	.23570	1.0009
#1	781.10	4162.2	33283.	6149.7
#2	774.33	4177.1	33394.	6063.3

Sample Name: 480-58755-A-1-E Acquired: 5/1/2014 15:11:45 Type: Unk
Method: ICAP 2 March 2014(v59) 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**	**.41814**	**.01908**	**.04821**	**.40308**	**.00027**	**51.968**	**.00703**	**.01246**
Stddev	.00110	.00177	.00185	.00018	.01780	.00007	.102	.00001	.00019
%RSD	170.28	.42342	9.7097	.36583	4.4168	26.073	.19564	.19266	1.5020
#1	-.00013	.41689	.02039	.04809	.41567	.00032	51.896	.00704	.01259
#2	.00142	.41939	.01777	.04833	.39049	.00022	52.040	.00702	.01233
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	**.00132**	**.03055**	**.36089**	**2.2686**	**.00651**	**2.5941**	**10.917**	**-.00043**	**1499.0**
Stddev	.00049	.00132	.04277	.0257	.00071	.1113	.306	.00005	9.3
%RSD	37.252	4.3302	11.851	1.1323	10.841	4.2889	2.7999	12.109	.62147
#1	.00167	.03148	.39114	2.2504	.00701	2.6727	11.133	-.00040	1492.4
#2	.00098	.02961	.33065	2.2867	.00601	2.5154	10.701	-.00047	1505.6
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	**.04594**	**.27676**	**.44200**	**.00777**	**.00542**	**2.3408**	**.00050**	**.18459**	**.00358**
Stddev	.00008	.00043	.00026	.00114	.00169	.0079	.00044	.00045	.00004
%RSD	.17056	.15690	.05911	14.719	31.200	.33717	87.909	.24232	1.2152
#1	.04600	.27645	.44218	.00858	.00422	2.3464	.00019	.18427	.00361
#2	.04589	.27706	.44181	.00696	.00661	2.3352	.00081	.18491	.00355
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	**.00203**	**.00321**	**1.7576**
Stddev	.00132	.00032	.0784
%RSD	65.034	9.8835	4.4590
#1	.00296	.00343	1.8130
#2	.00109	.00298	1.7021
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	**795.35**	**4187.7**	**33790.**	**5952.1**
Stddev	3.05	8.2	1083.	37.8
%RSD	.38286	.19619	3.2041	.63442
#1	797.50	4193.5	33024.	5978.8
#2	793.20	4181.9	34555.	5925.4

Sample Name: 480-58755-A-1-Esd@5 Acquired: 5/1/2014 15:14:41 Type: Unk
Method: ICAP 2 March 2014(v59) 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**	**.05939**	**.00348**	**.00865**	**.08559**	**.00000**	**10.859**	**.00087**	**.00200**
Stddev	.00053	.01747	.00049	.00011	.00014	.0001	.019	.00015	.00014
%RSD	111.77	29.416	14.155	1.3067	.16734	3344.5	.17816	17.494	6.8754
#1	-.00010	.07174	.00313	.00857	.08549	-.00005	10.845	.00098	.00210
#2	-.00085	.04703	.00383	.00873	.08569	.00004	10.873	.00076	.00190
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	**-.00006**	**.00702**	**.07063**	**.47016**	**.00259**	**.57365**	**2.3369**	**-.00072**	**298.60**
Stddev	.00103	.00004	.00018	.01243	.00075	.00836	.0036	.00004	.93
%RSD	1811.0	.56688	.25774	2.6429	29.037	1.4579	.15470	5.8763	.31097
#1	-.00078	.00699	.07076	.47895	.00206	.57956	2.3395	-.00069	299.25
#2	.00067	.00704	.07050	.46138	.00312	.56773	2.3344	-.00075	297.94
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	**.00837**	**.05609**	**.06818**	**-.00117**	**.00263**	**.44414**	**-.00103**	**.03718**	**.00053**
Stddev	.00007	.00061	.00116	.00060	.00030	.01535	.00036	.00021	.00010
%RSD	.86999	1.0947	1.7039	51.349	11.420	3.4552	35.261	.56214	19.664
#1	.00842	.05565	.06736	-.00074	.00242	.45499	-.00077	.03703	.00045
#2	.00832	.05652	.06900	-.00159	.00284	.43329	-.00128	.03732	.00060
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**	**.00109**	**.36797**
Stddev	.00091	.00048	.00199
%RSD	77.079	43.919	.53984
#1	.00054	.00075	.36937
#2	.00183	.00143	.36656
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	**914.57**	**4506.9**	**36239.**	**6094.5**
Stddev	1.67	16.2	41.	12.1
%RSD	.18253	.36029	.11385	.19849
#1	915.75	4518.4	36268.	6103.0
#2	913.39	4495.4	36210.	6085.9

Sample Name: 480-58755-A-1-E pds Acquired: 5/1/2014 15:17:33 Type: Unk
Method: ICAP 2 March 2014(v59) 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	**.10276**	**19.971**	**.46002**	**.42800**	**.78745**	**.39504**	**67.065**	**.41056**	**.42214**
Stddev	.00172	.075	.00233	.00304	.00286	.00113	.202	.00169	.00280
%RSD	1.6746	.37703	.50673	.71011	.36317	.28610	.30060	.41049	.66212
#1	.10154	20.024	.45838	.42585	.78947	.39584	67.208	.40937	.42017
#2	.10398	19.917	.46167	.43015	.78542	.39424	66.923	.41175	.42412
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	**.39380**	**.43195**	**19.030**	**21.991**	**.40657**	**20.883**	**10.542**	**.38324**	**1429.1**
Stddev	.00226	.00102	.015	.015	.00049	.085	.025	.00162	1.5
%RSD	.57452	.23571	.08036	.06691	.11956	.40604	.24096	.42192	.10616
#1	.39221	.43123	19.019	21.980	.40691	20.823	10.524	.38209	1430.2
#2	.39540	.43267	19.041	22.001	.40623	20.943	10.560	.38438	1428.0
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	**.44830**	**.66508**	**.42696**	**.40458**	**.44024**	**2.2384**	**.33209**	**.55421**	**.39501**
Stddev	.00212	.00220	.00359	.00214	.00086	.0067	.00168	.00100	.00099
%RSD	.47274	.33023	.84153	.52886	.19635	.30121	.50467	.17989	.25044
#1	.44681	.66353	.42442	.40307	.43963	2.2432	.33091	.55491	.39431
#2	.44980	.66663	.42950	.40610	.44085	2.2336	.33328	.55351	.39571
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	**.38131**	**.41162**	**2.0555**
Stddev	.00440	.00141	.0083
%RSD	1.1529	.34174	.40242
#1	.37820	.41062	2.0496
#2	.38442	.41261	2.0613
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	**794.73**	**4286.3**	**33980.**	**6075.1**
Stddev	4.31	22.5	68.	36.7
%RSD	.54198	.52604	.20055	.60453
#1	797.78	4302.2	34028.	6101.1
#2	791.69	4270.3	33932.	6049.1

Sample Name: 480-58755-A-1-F MS Acquired: 5/1/2014 15:20:26 Type: Unk
Method: ICAP 2 March 2014(v59) 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	**1.0319**	**.27532**	**1.0796**	**.03856**	**1.3553**	**.95847**	**50.678**	**1.0245**	**1.0076**
Stddev	.0002	.03398	.0010	.00021	.0076	.00001	.021	.0042	.0050
%RSD	.01855	12.341	.08858	.54330	.56394	.00089	.04172	.40889	.49992
#1	1.0321	.25129	1.0803	.03871	1.3499	.95847	50.663	1.0275	1.0112
#2	1.0318	.29934	1.0789	.03841	1.3607	.95848	50.693	1.0216	1.0041
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	**.97439**	**1.0166**	**.32128**	**2.2518**	**.00794**	**2.5534**	**11.744**	**.95597**	**1469.4**
Stddev	.00286	.0012	.00139	.0050	.00068	.0309	.045	.00517	.1
%RSD	.29338	.11669	.43259	.22446	8.5523	1.2100	.38541	.54031	.00936
#1	.97237	1.0174	.32226	2.2554	.00746	2.5316	11.712	.95963	1469.5
#2	.97642	1.0157	.32029	2.2483	.00842	2.5753	11.776	.95232	1469.3
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	**1.0407**	**1.2659**	**.42076**	**1.0105**	**1.0726**	**2.2965**	**.00046**	**1.1181**	**.00386**
Stddev	.0047	.0059	.00390	.0120	.0053	.0072	.00050	.0019	.00038
%RSD	.44893	.46587	.92578	1.1845	.49346	.31201	109.31	.16910	9.8245
#1	1.0440	1.2701	.42351	1.0190	1.0763	2.2914	.00082	1.1168	.00359
#2	1.0374	1.2618	.41800	1.0021	1.0688	2.3015	.00010	1.1194	.00413
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	**.94025**	**1.0367**	**2.8261**
Stddev	.01063	.0030	.0172
%RSD	1.1305	.29162	.60734
#1	.94776	1.0345	2.8140
#2	.93273	1.0388	2.8382
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	**796.02**	**4221.9**	**33119.**	**5936.2**
Stddev	2.63	13.8	120.	16.9
%RSD	.33085	.32643	.36345	.28384
#1	794.16	4212.1	33205.	5924.3
#2	797.88	4231.6	33034.	5948.1

Sample Name: 480-58755-A-1-G MSD Acquired: 5/1/2014 15:23:16 Type: Unk
Method: ICAP 2 March 2014(v59) 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	**.91442**	**.20994**	**.98510**	**.03511**	**1.2244**	**.86331**	**45.616**	**.93811**	**.91779**
Stddev	.00117	.01871	.00394	.00044	.0049	.00600	.291	.00475	.00291
%RSD	.12829	8.9126	.40019	1.2599	.39681	.69532	.63748	.50655	.31679
#1	.91525	.19671	.98231	.03479	1.2279	.86755	45.821	.93475	.91574
#2	.91359	.22317	.98788	.03542	1.2210	.85906	45.410	.94147	.91985
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	**.86761**	**.91469**	**.28784**	**1.9786**	**.00695**	**2.2972**	**10.586**	**.87782**	**1325.8**
Stddev	.00363	.00075	.00306	.0301	.00129	.0026	.011	.00429	10.4
%RSD	.41784	.08232	1.0634	1.5220	18.498	.11131	.10680	.48822	.78133
#1	.87017	.91522	.28567	1.9999	.00604	2.2990	10.594	.87479	1333.1
#2	.86505	.91416	.29000	1.9573	.00786	2.2954	10.578	.88085	1318.4
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	**.94604**	**1.1566**	**.38452**	**.92693**	**.98917**	**2.0807**	**.00031**	**1.0102**	**.00326**
Stddev	.00590	.0075	.00542	.01210	.01113	.0130	.00023	.0058	.00005
%RSD	.62360	.64502	1.4084	1.3053	1.1252	.62538	74.233	.57037	1.5506
#1	.94187	1.1514	.38070	.91837	.98130	2.0899	.00015	1.0143	.00329
#2	.95022	1.1619	.38835	.93548	.99704	2.0715	.00048	1.0062	.00322
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	**.86120**	**.93302**	**2.5223**
Stddev	.00806	.00427	.0005
%RSD	.93634	.45790	.02113
#1	.85550	.93604	2.5226
#2	.86690	.93000	2.5219
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	**800.73**	**4230.2**	**33776.**	**6033.7**
Stddev	.97	16.7	58.	69.2
%RSD	.12123	.39546	.17240	1.1461
#1	801.41	4242.0	33817.	5984.8
#2	800.04	4218.3	33735.	6082.6

Sample Name: 480-58767-A-1-C Acquired: 5/1/2014 15:26:09 Type: Unk
Method: ICAP 2 March 2014(v59) 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	**.00026**	**.42315**	**.02959**	**.14075**	**.01241**	**.00018**	**356.01**	**.00040**	**.00394**
Stddev	.00122	.01801	.00104	.00083	.00005	.00001	4.28	.00022	.00002
%RSD	473.19	4.2563	3.5066	.59289	.42962	5.8828	1.2018	55.179	.47922
#1	-.00060	.43589	.02886	.14016	.01237	.00019	359.03	.00056	.00396
#2	.00112	.41042	.03033	.14135	.01245	.00017	352.98	.00024	.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	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	**.00296**	**.00536**	**.01646**	**278.79**	**.03595**	**26.817**	**6.2666**	**.00200**	**1360.8**
Stddev	.00065	.00016	.00133	3.58	.00406	.053	.0043	.00005	17.4
%RSD	22.032	2.9178	8.0548	1.2830	11.279	.19849	.06823	2.2990	1.2761
#1	.00250	.00547	.01739	281.32	.03309	26.854	6.2697	.00203	1373.1
#2	.00342	.00525	.01552	276.26	.03882	26.779	6.2636	.00197	1348.5
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	**.00784**	**.00054**	**133.73**	**.00873**	**.00199**	**1.5062**	**.00019**	**.51550**	**.00255**
Stddev	.00030	.00011	1.28	.00195	.00088	.0042	.00050	.00536	.00006
%RSD	3.8339	20.876	.95813	22.327	43.933	.27863	268.55	1.0393	2.1797
#1	.00805	.00046	132.82	.00735	.00137	1.5033	.00054	.51929	.00258
#2	.00762	.00062	134.64	.01011	.00261	1.5092	-.00017	.51171	.00251
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	**.00071**	**.00309**	**.42487**
Stddev	.00230	.00003	.00140
%RSD	323.70	.82943	.32910
#1	.00233	.00311	.42586
#2	-.00091	.00308	.42388
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	**770.26**	**4044.1**	**32599.**	**5933.6**
Stddev	5.40	41.8	54.	70.3
%RSD	.70085	1.0338	.16663	1.1845
#1	774.08	4073.7	32561.	5883.9
#2	766.45	4014.6	32638.	5983.3

Sample Name: blank Acquired: 5/1/2014 15:28:59 Type: Unk
Method: ICAP 2 March 2014(v59) 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**	**-.02149**	**.00039**	**.00113**	**.00060**	**-.00012**	**.04841**	**.00023**	**-.00084**
Stddev	.00051	.02917	.00145	.00007	.00008	.00009	.00612	.00007	.00028
%RSD	2652.4	135.75	369.07	6.0298	12.506	72.389	12.643	32.519	33.546
#1	-.00038	-.04211	-.00063	.00108	.00055	-.00018	.05274	.00018	-.00104
#2	.00034	-.00086	.00142	.00118	.00066	-.00006	.04409	.00028	-.00064
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	**.00012**	**.00069**	**.00232**	**.14863**	**.00131**	**.00616**	**.00391**	**.00054**	**.73754**
Stddev	.00053	.00006	.00040	.01254	.00005	.00304	.00125	.00015	.00930
%RSD	442.81	9.1926	17.182	8.4357	3.9715	49.243	32.070	27.118	1.2612
#1	-.00026	.00073	.00260	.15750	.00135	.00402	.00302	.00044	.74412
#2	.00050	.00064	.00204	.13977	.00127	.00831	.00480	.00064	.73096
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	**.00021**	**.00087**	**-.02083**	**.00273**	**-.00078**	**-.02981**	**.00007**	**.00013**	**.00056**
Stddev	.00008	.00078	.00165	.00106	.00119	.00484	.00052	.00001	.00044
%RSD	39.309	89.900	7.9409	38.861	153.05	16.218	715.37	5.5373	78.255
#1	.00015	.00142	-.02200	.00198	.00006	-.02639	.00044	.00014	.00025
#2	.00027	.00032	-.01966	.00348	-.00163	-.03323	-.00030	.00013	.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	**-.00582**	**.00074**	**.00346**
Stddev	.00087	.00007	.00006
%RSD	14.874	8.9991	1.7788
#1	-.00520	.00070	.00350
#2	-.00643	.00079	.00342
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	**978.73**	**4113.9**	**35894.**	**5605.0**
Stddev	5.22	14.2	83.	37.8
%RSD	.53348	.34487	.23075	.67428
#1	982.42	4103.8	35835.	5631.7
#2	975.04	4123.9	35952.	5578.2

Sample Name: blank Acquired: 5/1/2014 15:31:48 Type: Unk
Method: ICAP 2 March 2014(v59) 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**	**-.00564**	**-.00220**	**-.00124**	**.00027**	**-.00002**	**.03114**	**-.00044**	**-.00046**
Stddev	.00010	.00316	.00102	.00054	.00000	.00001	.04211	.00011	.00001
%RSD	15.336	55.971	46.438	43.487	1.7497	46.668	135.20	23.846	2.2841
#1	.00056	-.00787	-.00147	-.00162	.00027	-.00003	.00137	-.00052	-.00045
#2	.00070	-.00341	-.00292	-.00086	.00027	-.00002	.06092	-.00037	-.00047
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	**-.00024**	**.00031**	**.00091**	**.05804**	**.00135**	**.00374**	**.00041**	**-.00028**	**.36581**
Stddev	.00018	.00028	.00295	.02550	.00095	.00010	.00017	.00004	.20713
%RSD	73.445	90.269	323.32	43.934	70.277	2.5810	41.200	15.460	56.623
#1	-.00037	.00011	.00300	.04001	.00068	.00381	.00053	-.00031	.21934
#2	-.00012	.00051	-.00117	.07607	.00202	.00367	.00029	-.00025	.51227
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**	**.00060**	**-.02143**	**-.00046**	**-.00026**	**-.04774**	**-.00116**	**.00001**	**.00058**
Stddev	.00012	.00069	.00021	.00045	.00379	.00858	.00039	.00007	.00024
%RSD	38.186	114.76	.95689	96.500	1434.0	17.964	33.444	579.82	40.363
#1	-.00022	.00011	-.02157	-.00078	.00241	-.04168	-.00144	-.00004	.00042
#2	-.00039	.00108	-.02128	-.00015	-.00294	-.05381	-.00089	.00006	.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	**.00052**	**-.00001**	**-.00016**
Stddev	.00010	.00046	.00038
%RSD	18.909	3663.1	232.16
#1	.00045	.00031	.00011
#2	.00059	-.00033	-.00044
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	**1092.5**	**4881.6**	**40684.**	**6200.8**
Stddev	6.4	57.4	35.	50.9
%RSD	.58166	1.1756	.08662	.82100
#1	1097.0	4922.2	40659.	6164.8
#2	1088.0	4841.0	40709.	6236.8

Sample Name: CCV Acquired: 5/1/2014 15:34:40 Type: QC
Method: ICAP 2 March 2014(v59) 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	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.49421**	**25.135**	**.51133**	**.49589**	**.50477**	**.49429**	**24.707**	**.50232**	**.49250**	**.50189**	**.50460**	**24.584**	**25.180**
Stddev	.00368	.183	.00085	.00170	.00463	.00500	.177	.00162	.00146	.00296	.00255	.155	.141
%RSD	.74455	.72768	.16710	.34262	.91771	1.0124	.71487	.32307	.29616	.58916	.50539	.63123	.56077
#1	.49681	25.265	.51072	.49469	.50805	.49782	24.832	.50117	.49147	.50398	.50641	24.694	25.280
#2	.49161	25.006	.51193	.49709	.50150	.49075	24.582	.50347	.49353	.49980	.50280	24.474	25.081
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
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	**.50963**	**25.361**	**.51094**	**.51417**	**24.930**	**.50024**	**.49872**	**24.437**	**.51797**	**.50896**	**24.661**	**.49447**	**.49949**
Stddev	.00098	.151	.00274	.00167	.255	.00100	.00101	.070	.00014	.00018	.048	.00298	.00414
%RSD	.19215	.59486	.53568	.32514	1.0235	.19897	.20303	.28770	.02794	.03576	.19507	.60203	.82961
#1	.50893	25.468	.51288	.51299	25.110	.49954	.49801	24.387	.51807	.50909	24.695	.49237	.50242
#2	.51032	25.255	.50901	.51536	24.749	.50095	.49944	24.486	.51787	.50883	24.627	.49658	.49656
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
Value													
Range													

Elem	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm
Avg	**.51000**	**.50133**	**.49989**	**.51356**
Stddev	.00340	.00180	.00097	.00178
%RSD	.66739	.35913	.19400	.34669
#1	.51240	.50006	.50058	.51482
#2	.50759	.50261	.49921	.51230
Check ?	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	**975.61**	**4701.0**	**38114.**	**6025.5**
Stddev	3.13	13.7	105.	21.6
%RSD	.32131	.29046	.27608	.35827
#1	977.83	4710.7	38039.	6010.2
#2	973.39	4691.3	38188.	6040.7

Sample Name: CCB Acquired: 5/1/2014 15:37:39 Type: QC
Method: ICAP 2 March 2014(v59) 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	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00064	-.01762	-.00080	-.00070	.00017	-.00017	.00040	-.00029	-.00044	-.00029	.00092	.00422	.02157
Stddev	.00027	.01794	.00050	.00021	.00001	.00010	.00571	.00001	.00007	.00011	.00004	.00148	.00822
%RSD	42.405	101.82	62.369	29.424	4.0152	59.826	1427.4	5.2400	17.020	38.116	4.2183	35.227	38.121
#1	.00045	-.03031	-.00116	-.00085	.00016	-.00024	.00444	-.00030	-.00049	-.00021	.00095	.00526	.01575
#2	.00083	-.00494	-.00045	-.00055	.00017	-.00010	-.00364	-.00027	-.00038	-.00037	.00090	.00317	.02738
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
High Limit													
Low Limit													

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	.00082	.00688	.00102	-.00037	.14176	-.00074	.00170	-.02172	.00051	.00431	-.03856	-.00056	.00008
Stddev	.00117	.00399	.00014	.00005	.00228	.00001	.00002	.00255	.00051	.00279	.01004	.00010	.00010
%RSD	142.43	58.065	13.598	13.416	1.6107	1.5274	1.1086	11.722	100.75	64.707	26.026	18.659	131.74
#1	-.00001	.00970	.00112	-.00041	.14014	-.00074	.00169	-.01992	.00015	.00234	-.04566	-.00063	.00015
#2	.00164	.00405	.00092	-.00034	.14337	-.00073	.00172	-.02352	.00088	.00629	-.03147	-.00048	.00001
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
High Limit													
Low Limit													

Elem	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm
Avg	.00058	-.00075	.00075	.00058
Stddev	.00021	.00009	.00030	.00014
%RSD	36.308	12.406	40.110	24.701
#1	.00073	-.00082	.00097	.00048
#2	.00043	-.00069	.00054	.00068
Check ?	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	1074.2	4773.3	40102.	6184.1
Stddev	.1	5.1	580.	1.9
%RSD	.00794	.10679	1.4460	.03040
#1	1074.1	4769.7	39692.	6182.7
#2	1074.2	4776.9	40512.	6185.4

Sample Name: CCVL Acquired: 5/1/2014 15:41:10 Type: QC
Method: ICAP 2 March 2014(v59) 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	**.00508**	**.16861**	**.01241**	**.01903**	**.00238**	**.00188**	**.48038**	**.00161**	**.00349**	**.00340**	**.01025**	**.05004**
Stddev	.00063	.01661	.00162	.00032	.00001	.00009	.00007	.00014	.00011	.00030	.00004	.00117
%RSD	12.419	9.8496	13.047	1.6830	.33431	4.8133	.01559	8.7018	3.1700	8.8297	.38499	2.3288
#1	.00552	.15686	.01355	.01880	.00237	.00194	.48043	.00171	.00341	.00362	.01022	.05087
#2	.00463	.18035	.01126	.01926	.00238	.00181	.48032	.00151	.00356	.00319	.01027	.04922
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	**.52182**	**.03051**	**.20366**	**.00303**	**.00965**	**1.0891**	**.00869**	**.00875**	F **-.02018**	**.01919**	**.02256**	**.43647**
Stddev	.01835	.00040	.00296	.00001	.00016	.0056	.00010	.00009	.00070	.00047	.00106	.02099
%RSD	3.5166	1.3162	1.4510	.34850	1.6720	.51199	1.2014	.98733	3.4868	2.4355	4.7077	4.8084
#1	.53480	.03080	.20157	.00303	.00976	1.0930	.00876	.00881	-.02068	.01886	.02181	.45131
#2	.50884	.03023	.20575	.00304	.00953	1.0852	.00862	.00869	-.01968	.01952	.02331	.42163
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
Value									.20000			
Range									-50.000%			

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00800**	**.00485**	**.00488**	**.01923**	**.00541**	**.01006**
Stddev	.00018	.00006	.00028	.00050	.00018	.00016
%RSD	2.2112	1.2066	5.7726	2.6102	3.2370	1.6076
#1	.00813	.00489	.00468	.01888	.00554	.01017
#2	.00788	.00481	.00508	.01959	.00529	.00994
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	**1065.8**	**4777.4**	**39480.**	**6149.0**
Stddev	5.3	13.9	100.	75.5
%RSD	.49648	.29022	.25444	1.2278
#1	1069.5	4787.2	39409.	6095.6
#2	1062.0	4767.6	39551.	6202.3

Sample Name: 480-58807-B-1-D Acquired: 5/1/2014 15:44:19 Type: Unk
Method: ICAP 2 March 2014(v59) 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	**.01702**	**4.9802**	**.00117**	**.03224**	**1.0539**	**.00019**	**21.528**	**.02370**	**.00895**
Stddev	.00009	.1764	.00076	.00015	.0407	.00004	.732	.00007	.00010
%RSD	.55780	3.5429	64.676	.45040	3.8654	23.076	3.4021	.31544	1.0727
#1	.01708	4.8555	.00171	.03213	1.0251	.00016	21.010	.02376	.00888
#2	.01695	5.1050	.00064	.03234	1.0827	.00023	22.046	.02365	.00902
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	**.02667**	**1.3225**	**7.6559**	**2.8544**	**.00634**	**2.1594**	**.64269**	**.00942**	**1272.9**
Stddev	.00053	.0009	.2918	.1256	.00053	.0110	.00026	.00014	44.5
%RSD	1.9760	.06891	3.8114	4.4017	8.3701	.51120	.04023	1.4488	3.4994
#1	.02704	1.3232	7.4496	2.7656	.00596	2.1515	.64251	.00952	1241.4
#2	.02629	1.3219	7.8622	2.9433	.00671	2.1672	.64287	.00932	1304.4
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	**.02817**	**.48524**	**2.1208**	**.00426**	**.00683**	**4.7851**	**.30147**	**.11380**	**.29469**
Stddev	.00051	.00101	.0007	.00062	.00373	.1686	.00117	.00467	.00992
%RSD	1.8233	.20914	.03267	14.547	54.557	3.5238	.38814	4.1047	3.3648
#1	.02854	.48596	2.1213	.00469	.00420	4.6659	.30229	.11049	.28768
#2	.02781	.48452	2.1203	.00382	.00947	4.9043	.30064	.11710	.30170
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	**-.00200**	**.03814**	**2.6581**
Stddev	.00237	.00041	.0107
%RSD	118.42	1.0877	.40146
#1	-.00367	.03785	2.6506
#2	-.00032	.03844	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	**810.02**	**4289.4**	**33851.**	**6150.3**
Stddev	7.96	12.9	149.	149.6
%RSD	.98215	.30172	.44019	2.4325
#1	815.65	4298.6	33956.	6256.1
#2	804.40	4280.3	33746.	6044.6

Sample Name: 480-58807-C-2-D Acquired: 5/1/2014 15:47:28 Type: Unk
Method: ICAP 2 March 2014(v59) 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	**.00089**	**.48273**	**.00191**	**.05464**	**.79529**	**.00000**	**28.941**	**.04182**	**.00921**
Stddev	.00116	.00175	.00167	.00051	.00072	.0001	.041	.00003	.00025
%RSD	130.48	.36166	87.019	.93818	.09023	10536.	.14014	.06241	2.6626
#1	.00171	.48397	.00309	.05428	.79580	.00011	28.969	.04180	.00938
#2	.00007	.48150	.00074	.05500	.79478	-.00011	28.912	.04183	.00904
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	**.00225**	**.12992**	**.56642**	**3.4059**	**.00581**	**2.4502**	**.71081**	**.00125**	**1411.4**
Stddev	.00016	.00160	.00744	.0131	.00134	.0135	.00016	.00025	2.4
%RSD	7.2695	1.2315	1.3143	.38550	23.000	.55056	.02294	20.260	.16964
#1	.00214	.13105	.56115	3.3966	.00675	2.4597	.71069	.00143	1413.1
#2	.00237	.12879	.57168	3.4151	.00486	2.4406	.71092	.00107	1409.7
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	**.02200**	**.08412**	**.48987**	**.00019**	**.00361**	**.71532**	**.00662**	**.17492**	**.02086**
Stddev	.00068	.00115	.00606	.00049	.00034	.00472	.00036	.00035	.00053
%RSD	3.1113	1.3622	1.2368	254.64	9.5208	.65959	5.4760	.20002	2.5479
#1	.02152	.08331	.49416	-.00015	.00385	.71866	.00687	.17516	.02048
#2	.02249	.08493	.48559	.00053	.00336	.71199	.00636	.17467	.02123
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**	**.01391**	**3.7885**
Stddev	.00050	.00024	.0098
%RSD	15.467	1.7138	.25746
#1	-.00288	.01408	3.7954
#2	-.00358	.01374	3.7816
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	**800.87**	**4214.8**	**32872.**	**5903.5**
Stddev	7.19	25.6	51.	4.1
%RSD	.89756	.60793	.15565	.06950
#1	805.95	4232.9	32836.	5900.6
#2	795.78	4196.7	32908.	5906.4

Sample Name: 480-58807-B-3-D Acquired: 5/1/2014 15:50:28 Type: Unk
Method: ICAP 2 March 2014(v59) 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**	**.75181**	**.00098**	**.02671**	**.46167**	**-.00005**	**7.4811**	**.00264**	**.00600**
Stddev	.00044	.02204	.00195	.00030	.00044	.00011	.0082	.00009	.00003
%RSD	123.27	2.9323	198.33	1.1268	.09448	235.96	.11020	3.2326	.52326
#1	.00067	.76739	-.00040	.02650	.46198	-.00012	7.4869	.00258	.00597
#2	.00005	.73622	.00237	.02693	.46136	.00003	7.4753	.00270	.00602
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**	**.03723**	**.71882**	**3.0203**	**.00319**	**1.1931**	**.46197**	**.00015**	**1376.6**
Stddev	.00024	.00022	.00271	.0693	.00017	.0048	.00127	.00010	12.7
%RSD	14.266	.59699	.37758	2.2942	5.2515	.40479	.27404	66.040	.92141
#1	.00188	.03708	.71690	2.9713	.00331	1.1897	.46287	.00008	1367.6
#2	.00153	.03739	.72074	3.0693	.00308	1.1966	.46108	.00022	1385.6
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	**.00637**	**.17900**	**.17835**	**-.00101**	**.00436**	**1.1532**	**.00215**	**.04264**	**.03332**
Stddev	.00005	.00234	.00079	.00041	.00265	.0183	.00017	.00000	.00008
%RSD	.76613	1.3066	.44055	40.966	60.778	1.5882	7.9741	.00244	.25192
#1	.00634	.17734	.17891	-.00072	.00623	1.1662	.00203	.04264	.03326
#2	.00641	.18065	.17780	-.00130	.00248	1.1403	.00228	.04264	.03338
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	**-.00232**	**.00331**	**.30554**
Stddev	.00125	.00059	.00242
%RSD	54.090	17.689	.79246
#1	-.00143	.00372	.30383
#2	-.00320	.00290	.30725
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	**817.19**	**4260.2**	**33417.**	**5881.4**
Stddev	5.64	29.2	105.	49.9
%RSD	.69062	.68547	.31405	.84827
#1	821.18	4280.9	33342.	5916.7
#2	813.20	4239.6	33491.	5846.2

Sample Name: 480-58807-C-4-D Acquired: 5/1/2014 15:53:24 Type: Unk
Method: ICAP 2 March 2014(v59) 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**	**.61034**	**-.00095**	**.02990**	**.39517**	**.00010**	**15.921**	**.00256**	**.00346**
Stddev	.00014	.01974	.00039	.00019	.00064	.00001	.032	.00013	.00008
%RSD	45.169	3.2346	40.710	.64327	.16193	5.1116	.20126	5.2111	2.1986
#1	.00041	.62430	-.00122	.03004	.39562	.00010	15.944	.00246	.00351
#2	.00021	.59638	-.00068	.02976	.39472	.00010	15.899	.00265	.00341
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**	**.01640**	**.66602**	**3.5751**	**.00502**	**2.6112**	**.22508**	**.00021**	**1446.1**
Stddev	.00036	.00040	.00200	.0361	.00226	.0094	.00006	.00004	1.6
%RSD	23.502	2.4214	.30075	1.0088	44.983	.36080	.02520	20.928	.11396
#1	.00181	.01668	.66744	3.5496	.00343	2.6045	.22512	.00018	1447.2
#2	.00129	.01612	.66461	3.6006	.00662	2.6178	.22504	.00024	1444.9
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	**.00566**	**.09220**	**.17524**	**.00001**	**.00224**	**1.1785**	**.00182**	**.10822**	**.03798**
Stddev	.00033	.00008	.00148	.00010	.00087	.0254	.00036	.00013	.00143
%RSD	5.7835	.08546	.84418	864.16	38.767	2.1540	19.669	.12028	3.7679
#1	.00589	.09226	.17629	-.00006	.00286	1.1965	.00157	.10831	.03697
#2	.00542	.09215	.17420	.00008	.00163	1.1606	.00207	.10813	.03900
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	**-.00246**	**.01002**	**.20050**
Stddev	.00026	.00033	.00056
%RSD	10.726	3.2804	.27700
#1	-.00264	.00979	.20089
#2	-.00227	.01025	.20010
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	**814.22**	**4261.0**	**33500.**	**6072.2**
Stddev	.30	3.4	133.	30.0
%RSD	.03722	.07923	.39783	.49470
#1	814.44	4258.6	33406.	6093.5
#2	814.01	4263.4	33594.	6051.0

Sample Name: blank Acquired: 5/1/2014 15:56:19 Type: Unk
Method: ICAP 2 March 2014(v59) 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**	**-.01894**	**-.00144**	**.00091**	**.00035**	**-.00011**	**.00373**	**.00035**	**-.00087**
Stddev	.00007	.04013	.00107	.00013	.00003	.00017	.00354	.00009	.00001
%RSD	21.812	211.90	74.572	13.831	7.4960	158.62	94.810	25.724	1.4571
#1	.00027	.00944	-.00068	.00082	.00037	.00001	.00624	.00042	-.00086
#2	.00037	-.04732	-.00220	.00100	.00033	-.00023	.00123	.00029	-.00088
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	**.00028**	**.00024**	**.00159**	**.07843**	**.00011**	**.00419**	**-.00046**	**.00042**	**.78487**
Stddev	.00003	.00009	.00085	.02311	.00346	.00018	.00007	.00002	.22502
%RSD	10.964	37.718	53.243	29.463	3265.4	4.3080	14.261	5.8339	28.670
#1	.00030	.00018	.00099	.06209	-.00234	.00432	-.00051	.00043	.94398
#2	.00026	.00031	.00218	.09477	.00255	.00407	-.00041	.00040	.62576
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**	**-.00032**	**-.02909**	**.00155**	**.00126**	**-.03876**	**.00007**	**-.00003**	**.00034**
Stddev	.00009	.00002	.00328	.00116	.00175	.02182	.00008	.00004	.00026
%RSD	48.961	7.3324	11.278	74.994	139.00	56.296	117.53	132.88	74.840
#1	-.00024	-.00030	-.02677	.00237	.00249	-.02333	.00012	-.00007	.00052
#2	-.00012	-.00034	-.03142	.00073	.00002	-.05419	.00001	.00000	.00016
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	**-.00557**	**.00028**	**.00025**
Stddev	.00017	.00032	.00038
%RSD	3.0345	112.79	153.08
#1	-.00545	.00006	.00052
#2	-.00569	.00050	-.00002
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	**988.16**	**4134.6**	**36010.**	**5697.4**
Stddev	3.11	10.9	86.	16.2
%RSD	.31444	.26249	.23750	.28390
#1	990.36	4126.9	36070.	5708.8
#2	985.97	4142.2	35949.	5685.9

Sample Name: blank Acquired: 5/1/2014 15:59:08 Type: Unk
Method: ICAP 2 March 2014(v59) 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**	**-.04212**	**-.00174**	**-.00153**	**.00027**	**.00003**	**-.00253**	**-.00046**	**-.00046**
Stddev	.00086	.01494	.00019	.00004	.00001	.00010	.00061	.00006	.00001
%RSD	609.06	35.465	10.876	2.5137	5.0674	291.99	23.997	13.706	2.4153
#1	.00047	-.05268	-.00188	-.00150	.00026	-.00004	-.00296	-.00042	-.00045
#2	-.00075	-.03156	-.00161	-.00155	.00028	.00011	-.00210	-.00051	-.00047
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	**-.00047**	**.00027**	**.00101**	**.03403**	**.00219**	**-.00310**	**-.00006**	**-.00056**	**.22757**
Stddev	.00005	.00046	.00126	.00122	.00128	.00030	.00005	.00006	.01327
%RSD	10.736	169.59	124.18	3.5743	58.387	9.6179	76.324	11.030	5.8312
#1	-.00051	-.00005	.00190	.03317	.00310	-.00289	-.00003	-.00052	.21819
#2	-.00044	.00059	.00012	.03489	.00129	-.00331	-.00010	-.00060	.23695
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**	**-.00015**	**-.02804**	**-.00092**	**-.00060**	**-.03906**	**.00095**	**.00001**	**-.00031**
Stddev	.00020	.00059	.00337	.00156	.00379	.01454	.00219	.00001	.00023
%RSD	20.872	404.13	12.027	169.66	630.34	37.237	229.40	63.781	73.523
#1	-.00080	-.00056	-.02566	-.00202	.00208	-.04934	.00250	.00002	-.00047
#2	-.00108	.00027	-.03043	.00018	-.00328	-.02877	-.00059	.00001	-.00015
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**	**.00073**	**.00020**
Stddev	.00028	.00005	.00039
%RSD	53.601	7.3901	199.11
#1	-.00033	.00076	-.00008
#2	-.00073	.00069	.00047
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	**1100.8**	**4902.7**	**41136.**	**6229.7**
Stddev	3.5	34.8	108.	23.1
%RSD	.32023	.70967	.26183	.37041
#1	1103.3	4927.3	41212.	6213.4
#2	1098.4	4878.1	41060.	6246.1

Sample Name: LB2 480-178838/1-B Acquired: 5/1/2014 16:01:56 Type: Unk
Method: ICAP 2 March 2014(v59) 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**	**.04000**	**-.00050**	**.00743**	F **.00306**	**-.00002**	**.42051**	**-.00038**	**-.00049**
Stddev	.00048	.02503	.00072	.00005	.00000	.00019	.00119	.00002	.00012
%RSD	141.22	62.559	144.18	.62838	.02479	809.12	.28314	4.9877	24.662
#1	-.00068	.02231	-.00101	.00746	.00306	.00011	.42135	-.00036	-.00057
#2	.00000	.05770	.00001	.00740	.00306	-.00016	.41967	-.00039	-.00040
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					.00200				
Low Limit					-.00300				

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	**.00025**	**.00177**	**.03938**	**.10763**	**.00066**	**.04823**	**.00156**	**-.00023**	F **3.3682**
Stddev	.00019	.00042	.00131	.03321	.00062	.00155	.00003	.00013	.0678
%RSD	77.566	23.994	3.3156	30.859	93.432	3.2225	2.1698	54.612	2.0114
#1	.00011	.00207	.03846	.08414	.00022	.04713	.00154	-.00032	3.3203
#2	.00039	.00147	.04030	.13111	.00110	.04933	.00159	-.00014	3.4161
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit									1.0000
Low Limit									-.50000

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	**.00004**	**.00000**	**.00914**	**-.00007**	**.00689**	**-.02611**	**.00004**	**.00065**	**.00030**
Stddev	.00004	.0000	.00185	.00021	.00094	.02954	.00031	.00003	.00019
%RSD	90.219	1438.2	20.244	318.04	13.583	113.14	805.04	4.5672	64.910
#1	.00001	-.00001	.00783	.00008	.00623	-.04700	-.00018	.00067	.00043
#2	.00006	.00001	.01045	-.00021	.00755	-.00522	.00026	.00063	.00016
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	**-.00319**	**.00053**	**.00703**
Stddev	.00015	.00011	.00000
%RSD	4.8340	20.915	.05643
#1	-.00308	.00061	.00703
#2	-.00330	.00045	.00703
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	**1089.2**	**4836.8**	**40325.**	**6331.2**
Stddev	11.6	17.7	198.	58.6
%RSD	1.0658	.36569	.48989	.92520
#1	1097.4	4849.3	40465.	6289.8
#2	1081.0	4824.3	40186.	6372.6

Sample Name: MB 480-178936/2-A Acquired: 5/1/2014 16:04:45 Type: Unk
Method: ICAP 2 March 2014(v59) 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**	**.00547**	**-.00016**	**-.00094**	**.00025**	**-.00016**	**.00279**	**-.00040**	**-.00029**
Stddev	.00013	.02779	.00004	.00033	.00002	.00007	.00303	.00011	.00013
%RSD	33.657	507.84	24.649	35.035	10.055	42.204	108.47	28.009	45.708
#1	.00030	-.01418	-.00018	-.00071	.00026	-.00011	.00065	-.00048	-.00019
#2	.00049	.02512	-.00013	-.00117	.00023	-.00020	.00493	-.00032	-.00038
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	**-.00019**	**.00040**	**.00379**	**.02274**	**-.00024**	**.00566**	**.00021**	**-.00045**	**.16223**
Stddev	.00040	.00015	.00115	.02635	.00087	.00303	.00005	.00009	.00626
%RSD	206.53	38.151	30.290	115.89	359.80	53.490	22.317	19.992	3.8612
#1	-.00047	.00051	.00298	.00411	.00037	.00352	.00024	-.00038	.16666
#2	.00009	.00029	.00460	.04138	-.00085	.00780	.00018	-.00051	.15780
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**	**.00071**	**-.02775**	**-.00045**	**-.00019**	**-.03197**	**-.00070**	**-.00003**	**.00063**
Stddev	.00016	.00118	.00147	.00056	.00304	.00352	.00031	.00000	.00042
%RSD	25.938	166.53	5.3137	124.93	1579.3	11.012	43.850	7.1181	66.413
#1	-.00071	.00155	-.02670	-.00005	-.00234	-.03446	-.00091	-.00003	.00033
#2	-.00049	-.00013	-.02879	-.00084	.00196	-.02948	-.00048	-.00002	.00092
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	**-.00048**	**.00040**	**.00166**
Stddev	.00068	.00039	.00013
%RSD	141.79	95.680	8.0976
#1	-.00096	.00068	.00156
#2	.00000	.00013	.00175
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	**1088.4**	**4860.1**	**40036.**	**6229.3**
Stddev	7.5	35.1	724.	14.5
%RSD	.68850	.72219	1.8082	.23358
#1	1093.7	4884.9	39524.	6219.0
#2	1083.1	4835.3	40548.	6239.6

Sample Name: LCS 480-178936/3-A Acquired: 5/1/2014 16:07:34 Type: Unk
Method: ICAP 2 March 2014(v59) 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	**.98751**	**-.14619**	**1.0449**	**-.00223**	**1.0173**	**1.0040**	**.42274**	**1.0172**	**.97448**
Stddev	.01209	.04345	.0010	.00029	.0087	.0091	.00183	.0015	.00391
%RSD	1.2246	29.721	.10052	12.828	.85286	.91003	.43403	.14454	.40096
#1	.97896	-.17692	1.0457	-.00243	1.0234	1.0105	.42403	1.0182	.97172
#2	.99606	-.11547	1.0442	-.00203	1.0111	.99757	.42144	1.0161	.97724
Check ?	Chk Pass	None	Chk Pass	None	Chk Pass	Chk Pass	None	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	**1.0217**	**1.0286**	**.04288**	**.11615**	**.00151**	**.05365**	**1.0290**	**1.0467**	**3.2618**
Stddev	.0114	.0098	.00167	.00300	.00372	.00061	.0102	.0023	.0005
%RSD	1.1194	.94909	3.9002	2.5793	247.05	1.1436	.98819	.21896	.01419
#1	1.0136	1.0217	.04406	.11826	-.00112	.05408	1.0218	1.0483	3.2615
#2	1.0298	1.0355	.04170	.11403	.00414	.05321	1.0362	1.0451	3.2621
Check ?	Chk Pass	Chk Pass	None	None	None	None	Chk Pass	Chk Pass	None
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	**.97607**	**.98473**	**.01348**	**1.0314**	**1.1010**	**-.03646**	**.00051**	**.00070**	**.00129**
Stddev	.00132	.00139	.00006	.0105	.0128	.00336	.00054	.00003	.00013
%RSD	.13542	.14116	.43835	1.0155	1.1600	9.2018	104.29	3.8475	10.197
#1	.97513	.98375	.01352	1.0388	1.1101	-.03884	.00013	.00068	.00138
#2	.97700	.98572	.01343	1.0240	1.0920	-.03409	.00089	.00071	.00119
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	None	None	None	None
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	**1.0016**	**1.0553**	**1.0341**
Stddev	.0052	.0158	.0171
%RSD	.51494	1.4959	1.6589
#1	1.0053	1.0441	1.0220
#2	.99799	1.0664	1.0462
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	**1055.6**	**4742.4**	**39703.**	**6275.0**
Stddev	3.9	2.3	297.	55.2
%RSD	.36707	.04944	.74868	.87916
#1	1058.4	4740.7	39913.	6236.0
#2	1052.9	4744.1	39493.	6314.0

Sample Name: CCV Acquired: 5/1/2014 16:10:17 Type: QC
Method: ICAP 2 March 2014(v59) 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	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.49618	24.927	.51451	.49888	.50670	.49011	24.500	.50466	.49496	.50422	.50435	24.150	24.926
Stddev	.00091	.003	.00327	.00156	.00105	.00204	.084	.00019	.00114	.00157	.00027	.105	.054
%RSD	.18330	.01203	.63491	.31342	.20759	.41586	.34437	.03773	.23100	.31212	.05345	.43439	.21515
#1	.49682	24.925	.51220	.49777	.50596	.49155	24.559	.50453	.49416	.50310	.50454	24.224	24.964
#2	.49554	24.929	.51682	.49998	.50745	.48867	24.440	.50480	.49577	.50533	.50416	24.076	24.888
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
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	.51424	25.514	.51925	.51770	24.760	.50439	.50231	24.518	.52547	.51431	24.629	.49911	.49552
Stddev	.00089	.015	.00182	.00026	.071	.00176	.00095	.029	.00027	.00318	.022	.00133	.00171
%RSD	.17226	.05806	.35090	.04993	.28852	.34941	.18981	.11919	.05222	.61777	.08910	.26631	.34432
#1	.51487	25.504	.51796	.51751	24.810	.50314	.50163	24.498	.52566	.51206	24.614	.49817	.49673
#2	.51361	25.525	.52054	.51788	24.709	.50564	.50298	24.539	.52528	.51655	24.645	.50005	.49432
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
Value													
Range													

Elem	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm
Avg	.51060	.50114	.50235	.51858
Stddev	.00006	.00322	.00004	.00062
%RSD	.01265	.64352	.00712	.11886
#1	.51055	.49886	.50237	.51814
#2	.51064	.50342	.50232	.51902
Check ?	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	969.04	4673.5	37544.	6029.8
Stddev	.41	4.2	46.	28.9
%RSD	.04223	.08929	.12306	.47951
#1	969.33	4670.6	37576.	6009.4
#2	968.75	4676.5	37511.	6050.3

Sample Name: CCB Acquired: 5/1/2014 16:12:56 Type: QC
Method: ICAP 2 March 2014(v59) 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	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00052	-.00372	-.00223	-.00112	.00016	-.00001	.00698	-.00048	-.00038	.00028	.00038	.00335	.02995
Stddev	.00013	.01042	.00165	.00007	.00009	.00004	.00036	.00001	.00004	.00035	.00005	.00310	.01571
%RSD	25.435	280.38	74.325	6.3466	54.690	285.68	5.1995	3.0999	10.738	127.33	12.294	92.477	52.466
#1	.00062	.00365	-.00106	-.00107	.00022	.00001	.00672	-.00047	-.00035	.00003	.00041	.00116	.01884
#2	.00043	-.01109	-.00339	-.00117	.00010	-.00004	.00723	-.00049	-.00041	.00053	.00035	.00554	.04106
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
High Limit													
Low Limit													

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	.00067	.01043	.00013	-.00034	.10146	-.00053	-.00023	-.02331	.00008	.00104	-.03910	-.00062	-.00005
Stddev	.00085	.01084	.00003	.00037	.00302	.00039	.00019	.00103	.00133	.00095	.02112	.00004	.00006
%RSD	127.82	103.92	25.666	109.50	2.9749	74.395	82.781	4.4003	1698.1	91.940	54.022	6.8321	132.90
#1	.00006	.01810	.00016	-.00060	.10360	-.00081	-.00009	-.02258	-.00086	.00171	-.05403	-.00059	-.00009
#2	.00127	.00277	.00011	-.00008	.09933	-.00025	-.00036	-.02403	.00102	.00036	-.02416	-.00065	.00000
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
High Limit													
Low Limit													

Elem	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm
Avg	.00091	-.00018	.00110	.00010
Stddev	.00056	.00058	.00053	.00004
%RSD	61.576	325.00	48.611	36.060
#1	.00131	.00023	.00072	.00013
#2	.00051	-.00059	.00148	.00008
Check ?	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	1078.7	4790.2	39560.	6132.3
Stddev	6.4	32.9	88.	42.5
%RSD	.59629	.68677	.22312	.69276
#1	1083.3	4813.5	39498.	6162.4
#2	1074.2	4767.0	39623.	6102.3

Sample Name: CCVL Acquired: 5/1/2014 16:15:46 Type: QC
Method: ICAP 2 March 2014(v59) 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	**.00597**	**.21497**	**.01322**	**.01899**	**.00253**	**.00190**	**.47249**	**.00158**	**.00345**	**.00371**	**.01042**	**.04686**
Stddev	.00082	.04042	.00056	.00055	.00002	.00015	.00537	.00013	.00009	.00025	.00038	.00057
%RSD	13.795	18.804	4.2322	2.8907	.80530	7.7287	1.1370	8.1098	2.5151	6.7879	3.6708	1.2249
#1	.00539	.18639	.01282	.01938	.00254	.00180	.47629	.00167	.00351	.00389	.01015	.04726
#2	.00656	.24355	.01361	.01861	.00252	.00200	.46870	.00149	.00339	.00353	.01069	.04645
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	**.52578**	**.03057**	**.20557**	**.00323**	**.00972**	**1.0881**	**.00895**	**.00884**	F **-.02423**	**.02024**	**.02377**	**.41902**
Stddev	.02073	.00085	.00019	.00001	.00026	.0034	.00043	.00220	.00125	.00043	.00140	.00598
%RSD	3.9425	2.7909	.09090	.44986	2.7240	.31216	4.7999	24.927	5.1563	2.1273	5.9004	1.4273
#1	.54044	.03117	.20544	.00324	.00991	1.0905	.00865	.01040	-.02335	.02054	.02278	.41480
#2	.51112	.02996	.20570	.00322	.00954	1.0857	.00925	.00728	-.02511	.01994	.02476	.42325
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
Value									.20000			
Range									-50.000%			

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00823**	**.00500**	**.00500**	**.01817**	**.00589**	**.01000**
Stddev	.00053	.00004	.00023	.00119	.00011	.00049
%RSD	6.3815	.83148	4.6642	6.5729	1.8691	4.9154
#1	.00786	.00503	.00517	.01902	.00597	.00965
#2	.00861	.00497	.00484	.01733	.00581	.01035
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	**1071.9**	**4791.5**	**39325.**	**6160.1**
Stddev	5.6	17.1	40.	43.8
%RSD	.52489	.35787	.10207	.71096
#1	1067.9	4779.4	39353.	6129.1
#2	1075.9	4803.6	39296.	6191.0

Sample Name: 480-58343-A-25-G Acquired: 5/1/2014 16:18:35 Type: Unk
Method: ICAP 2 March 2014(v59) 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	**.00081**	**8.9301**	**.00858**	**.31360**	**.76437**	**.00213**	F **2123.3**	**.03150**	**.09457**
Stddev	.00021	.0129	.00156	.00022	.00272	.00012	4.2	.00017	.00009
%RSD	26.509	.14399	18.152	.07128	.35622	5.6009	.19875	.53855	.09376
#1	.00066	8.9392	.00747	.31376	.76630	.00205	2126.3	.03138	.09451
#2	.00096	8.9210	.00968	.31344	.76245	.00221	2120.3	.03162	.09464
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit							900.00		
Low Limit							-.50000		

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	**.01899**	**.06351**	**114.25**	**39.282**	**.30449**	**30.990**	**4.1187**	**.00122**	**45.275**
Stddev	.00044	.00062	.55	.084	.00139	.007	.0118	.00003	.178
%RSD	2.3013	.97351	.47751	.21407	.45762	.02325	.28741	2.0518	.39279
#1	.01868	.06307	114.63	39.341	.30351	30.995	4.1103	.00124	45.401
#2	.01930	.06394	113.86	39.222	.30548	30.984	4.1271	.00120	45.150
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	**.22195**	**.00593**	**57.494**	**-.01238**	**-.00191**	**50.609**	**.00434**	**4.8303**	**.01362**
Stddev	.00043	.00115	.105	.00126	.00006	.391	.00013	.0122	.00020
%RSD	.19242	19.426	.18229	10.186	2.9487	.77327	2.9328	.25292	1.4975
#1	.22165	.00675	57.568	-.01327	-.00195	50.885	.00443	4.8389	.01347
#2	.22226	.00512	57.420	-.01149	-.00187	50.332	.00425	4.8217	.01376
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	**-.01030**	**.00380**	**4.2510**
Stddev	.00247	.00030	.0006
%RSD	24.019	8.0223	.01352
#1	-.01205	.00401	4.2514
#2	-.00855	.00358	4.2506
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	**736.51**	**4093.2**	**33794.**	**6154.2**
Stddev	2.40	7.6	121.	51.6
%RSD	.32561	.18627	.35742	.83792
#1	738.21	4098.5	33880.	6117.7
#2	734.82	4087.8	33709.	6190.6

Sample Name: 480-58343-A-25-Gsd@5 Acquired: 5/1/2014 16:21:25 Type: Unk
Method: ICAP 2 March 2014(v59) 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**	**1.7820**	**.00004**	**.06391**	**.15920**	**.00037**	**486.14**	**.00578**	**.01841**
Stddev	.00062	.0100	.00007	.00012	.00064	.00009	9.65	.00016	.00006
%RSD	293.89	.56019	195.45	.19377	.40065	24.699	1.9857	2.7431	.32901
#1	-.00023	1.7750	-.00001	.06400	.15875	.00031	492.96	.00567	.01836
#2	.00065	1.7891	.00009	.06382	.15965	.00044	479.31	.00589	.01845
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	**.00386**	**.01374**	**24.007**	**7.9539**	**.05416**	**7.0302**	**.88224**	**-.00018**	**8.9345**
Stddev	.00038	.00026	.152	.0233	.00011	.0296	.00227	.00016	.0607
%RSD	9.7751	1.9103	.63385	.29315	.20419	.42174	.25733	87.355	.67930
#1	.00359	.01355	24.114	7.9704	.05423	7.0093	.88385	-.00030	8.9774
#2	.00412	.01393	23.899	7.9374	.05408	7.0512	.88064	-.00007	8.8916
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	**.04319**	**.00132**	**11.284**	**-.00418**	**-.00299**	**9.8328**	**.00048**	**.98283**	**.00318**
Stddev	.00029	.00109	.146	.00101	.00032	.1257	.00016	.00636	.00020
%RSD	.68081	82.289	1.2921	24.114	10.553	1.2787	32.962	.64735	6.2029
#1	.04299	.00209	11.387	-.00347	-.00322	9.9217	.00037	.98733	.00304
#2	.04340	.00055	11.181	-.00489	-.00277	9.7439	.00059	.97833	.00332
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	**-.00300**	**.00075**	**.97035**
Stddev	.00054	.00001	.00156
%RSD	18.077	1.5927	.16056
#1	-.00338	.00076	.97145
#2	-.00261	.00074	.96925
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	**885.98**	**4417.4**	**36037.**	**6112.7**
Stddev	7.23	6.1	167.	45.9
%RSD	.81657	.13839	.46315	.75064
#1	891.10	4413.0	35919.	6080.3
#2	880.87	4421.7	36155.	6145.2

Sample Name: 480-58343-A-25-G pds Acquired: 5/1/2014 16:24:15 Type: Unk
Method: ICAP 2 March 2014(v59) 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	**1.0967**	**8.8189**	**1.1581**	**.30071**	**1.7800**	**.98620**	F **2139.3**	**1.1164**	**1.1670**
Stddev	.0122	.0231	.0119	.00021	.0089	.00504	22.1	.0040	.0042
%RSD	1.1119	.26149	1.0282	.06972	.49818	.51104	1.0338	.35489	.36145
#1	1.1053	8.8026	1.1497	.30056	1.7863	.98976	2154.9	1.1136	1.1640
#2	1.0881	8.8352	1.1665	.30086	1.7738	.98263	2123.6	1.1192	1.1699
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit							900.00		
Low Limit							-.50000		

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	**.97519**	**1.1231**	**113.63**	**39.228**	**.29969**	**30.885**	**5.0971**	**.99166**	**45.412**
Stddev	.01512	.0163	.28	.134	.00128	.401	.0666	.00387	.351
%RSD	1.5502	1.4527	.24501	.34241	.42846	1.2981	1.3072	.39044	.77227
#1	.98588	1.1346	113.83	39.323	.29878	31.169	5.1442	.98892	45.660
#2	.96450	1.1115	113.44	39.133	.30059	30.602	5.0500	.99440	45.165
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	**1.2828**	**1.0426**	**57.185**	**1.0741**	**1.1777**	**51.756**	**.00489**	**4.8468**	**.01442**
Stddev	.0065	.0015	.173	.0000	.0041	.418	.00031	.0275	.00053
%RSD	.50323	.14238	.30287	.00165	.35025	.80813	6.3640	.56683	3.6418
#1	1.2783	1.0416	57.063	1.0740	1.1748	52.052	.00511	4.8662	.01479
#2	1.2874	1.0437	57.308	1.0741	1.1807	51.461	.00467	4.8274	.01405
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	**.99211**	**1.0452**	**5.1476**
Stddev	.00326	.0217	.0602
%RSD	.32832	2.0775	1.1698
#1	.99441	1.0605	5.1902
#2	.98980	1.0298	5.1051
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	**724.09**	**4094.2**	**33618.**	**6138.3**
Stddev	2.63	14.5	333.	40.5
%RSD	.36385	.35389	.99034	.66060
#1	725.95	4104.5	33383.	6109.6
#2	722.22	4084.0	33854.	6167.0

Sample Name: 480-58343-A-25-H MS Acquired: 5/1/2014 16:26:58 Type: Unk
Method: ICAP 2 March 2014(v59) 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	**1.0365**	**8.6832**	**1.1088**	**.29268**	**1.7192**	**.92800**	F **2078.7**	**1.0668**	**1.1019**
Stddev	.0118	.0476	.0053	.00066	.0130	.00729	4.5	.0006	.0006
%RSD	1.1418	.54790	.47699	.22423	.75814	.78526	.21676	.05202	.05272
#1	1.0449	8.7168	1.1050	.29222	1.7284	.93315	2081.9	1.0672	1.1015
#2	1.0282	8.6495	1.1125	.29314	1.7100	.92284	2075.5	1.0664	1.1023
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit							900.00		
Low Limit							-.50000		

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	**.91469**	**1.0589**	**111.54**	**38.652**	**.29505**	**29.821**	**4.8823**	**.94711**	**44.508**
Stddev	.01220	.0128	.13	.261	.00729	.312	.0536	.00120	.435
%RSD	1.3342	1.2092	.12035	.67407	2.4723	1.0477	1.0983	.12662	.97643
#1	.92331	1.0680	111.64	38.837	.30021	30.042	4.9202	.94796	44.815
#2	.90606	1.0499	111.45	38.468	.28990	29.600	4.8444	.94626	44.200
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	**1.2112**	**.99434**	**55.184**	**1.0306**	**1.1282**	**51.183**	**.00471**	**4.7161**	**.01337**
Stddev	.0010	.00086	.012	.0022	.0102	1.328	.00001	.0895	.00134
%RSD	.08335	.08673	.02213	.21506	.90507	2.5943	.14411	1.8973	10.003
#1	1.2105	.99495	55.176	1.0322	1.1210	52.122	.00471	4.7794	.01431
#2	1.2119	.99373	55.193	1.0291	1.1354	50.244	.00470	4.6528	.01242
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	**.94457**	**.98588**	**4.9590**
Stddev	.00177	.00996	.0485
%RSD	.18698	1.0099	.97713
#1	.94332	.99292	4.9933
#2	.94582	.97884	4.9247
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	**733.39**	**4104.2**	**34150.**	**6184.9**
Stddev	.26	1.2	282.	44.5
%RSD	.03610	.02874	.82507	.71909
#1	733.58	4105.0	33951.	6153.4
#2	733.21	4103.4	34350.	6216.3

Sample Name: 480-58343-A-25-I MSD Acquired: 5/1/2014 16:29:44 Type: Unk
Method: ICAP 2 March 2014(v59) 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	**1.0335**	**8.7028**	**1.0949**	**.29008**	**1.6940**	**.91647**	F **2078.4**	**1.0573**	**1.0955**
Stddev	.0032	.0488	.0124	.00364	.0149	.01014	18.8	.0104	.0095
%RSD	.30811	.56115	1.1352	1.2559	.87694	1.1063	.90468	.98287	.86457
#1	1.0358	8.7373	1.0861	.28751	1.7045	.92364	2091.7	1.0499	1.0888
#2	1.0313	8.6683	1.1037	.29266	1.6835	.90930	2065.1	1.0646	1.1022
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit							900.00		
Low Limit							-.50000		

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	**.91370**	**1.0551**	**110.01**	**38.161**	**.28607**	**29.789**	**4.8862**	**.93954**	**43.928**
Stddev	.00102	.0032	.55	.395	.00189	.117	.0019	.00966	.396
%RSD	.11144	.30250	.50419	1.0338	.65927	.39161	.03785	1.0277	.90160
#1	.91442	1.0573	110.41	38.440	.28740	29.872	4.8876	.93271	44.208
#2	.91298	1.0528	109.62	37.882	.28473	29.707	4.8849	.94636	43.648
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	**1.2054**	**.98565**	**54.657**	**1.0209**	**1.1112**	**49.963**	**.00441**	**4.6870**	**.01352**
Stddev	.0116	.00607	.521	.0079	.0071	.663	.00089	.0419	.00019
%RSD	.96567	.61543	.95270	.77533	.63610	1.3273	20.214	.89384	1.4239
#1	1.1972	.98136	54.289	1.0153	1.1062	50.432	.00504	4.7166	.01338
#2	1.2137	.98994	55.025	1.0265	1.1162	49.494	.00378	4.6574	.01366
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	**.93355**	**.98251**	**4.9615**
Stddev	.00368	.00445	.0143
%RSD	.39415	.45322	.28736
#1	.93095	.98566	4.9715
#2	.93615	.97936	4.9514
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	**732.56**	**4107.3**	**33949.**	**6130.5**
Stddev	4.60	30.5	3.	101.9
%RSD	.62757	.74156	.00790	1.6625
#1	735.81	4128.9	33951.	6058.4
#2	729.31	4085.8	33947.	6202.6

Sample Name: blank Acquired: 5/1/2014 16:32:36 Type: Unk
Method: ICAP 2 March 2014(v59) 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**	**.00244**	**-.00073**	**.00133**	**.00187**	**-.00006**	**.03554**	**.00040**	**-.00094**
Stddev	.00056	.03280	.00060	.00013	.00217	.00006	.00816	.00010	.00021
%RSD	172.39	1344.2	81.861	9.8156	116.09	105.97	22.968	25.240	22.797
#1	.00073	-.02075	-.00031	.00143	.00340	-.00010	.04132	.00047	-.00079
#2	-.00007	.02563	-.00116	.00124	.00033	-.00001	.02977	.00033	-.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	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	**.00097**	**.00112**	**.00254**	**.01810**	**.00215**	**.02574**	**.00423**	**.00102**	**.10837**
Stddev	.00092	.00101	.00185	.01500	.00038	.03476	.00653	.00030	.00593
%RSD	95.047	89.890	72.891	82.850	17.494	135.06	154.17	29.710	5.4680
#1	.00162	.00184	.00384	.02871	.00188	.05032	.00885	.00080	.11256
#2	.00032	.00041	.00123	.00750	.00242	.00116	-.00038	.00123	.10418
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**	**.00176**	**-.01933**	**.00790**	**-.00040**	**1.2802**	**.00009**	**.00016**	**.00032**
Stddev	.00044	.00049	.00251	.00073	.00070	.3312	.00015	.00008	.00030
%RSD	135.09	27.888	13.012	9.2963	176.88	25.869	171.29	50.267	93.304
#1	-.00001	.00141	-.01755	.00738	.00010	1.0461	.00019	.00021	.00054
#2	-.00064	.00211	-.02111	.00842	-.00089	1.5144	-.00002	.00010	.00011
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	**-.00415**	**.00196**	**.00548**
Stddev	.00242	.00080	.00603
%RSD	58.235	40.862	109.97
#1	-.00586	.00253	.00975
#2	-.00244	.00140	.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	**994.88**	**4183.9**	**36207.**	**5845.5**
Stddev	10.52	24.3	206.	53.7
%RSD	1.0571	.58122	.56919	.91811
#1	987.45	4166.7	36062.	5807.5
#2	1002.3	4201.1	36353.	5883.4

Sample Name: blank Acquired: 5/1/2014 16:35:25 Type: Unk
Method: ICAP 2 March 2014(v59) 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**	**-.02717**	**-.00039**	**.00086**	**.00030**	**-.00016**	**.01108**	**.00020**	**-.00086**
Stddev	.00004	.03079	.00071	.00027	.00002	.00009	.00172	.00027	.00014
%RSD	19.175	113.35	181.49	31.979	5.9933	54.820	15.568	129.40	16.761
#1	.00017	-.04894	.00011	.00105	.00032	-.00010	.00986	.00002	-.00096
#2	.00022	-.00539	-.00089	.00066	.00029	-.00022	.01230	.00039	-.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	**-.00001**	**.00020**	**.00014**	**-.01118**	**-.00026**	**-.00040**	**-.00044**	**.00031**	**.10408**
Stddev	.00001	.00034	.00308	.00544	.00020	.00246	.00006	.00001	.01151
%RSD	129.91	170.71	2265.1	48.660	78.992	608.57	12.663	1.8281	11.055
#1	-.00001	.00044	.00231	-.01502	-.00040	-.00214	-.00047	.00032	.11222
#2	.00000	-.00004	-.00204	-.00733	-.00011	.00134	-.00040	.00031	.09594
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**	**.00106**	**-.02427**	**.00234**	**.00335**	**.06954**	**-.00018**	**.00006**	**-.00006**
Stddev	.00010	.00006	.00158	.00035	.00294	.04933	.00004	.00012	.00029
%RSD	22.658	5.9422	6.5288	15.070	87.833	70.940	24.376	182.00	475.15
#1	-.00051	.00101	-.02315	.00209	.00127	.03466	-.00015	-.00002	.00014
#2	-.00037	.00110	-.02539	.00259	.00543	.10442	-.00021	.00014	-.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	**-.00531**	**.00052**	**-.00004**
Stddev	.00081	.00002	.00048
%RSD	15.193	3.7170	1101.9
#1	-.00588	.00054	-.00038
#2	-.00474	.00051	.00029
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	**1001.5**	**4213.4**	**36653.**	**5763.0**
Stddev	4.2	3.6	85.	16.6
%RSD	.42210	.08549	.23080	.28823
#1	998.56	4210.8	36594.	5751.2
#2	1004.5	4215.9	36713.	5774.7

Sample Name: blank Acquired: 5/1/2014 16:38:13 Type: Unk
Method: ICAP 2 March 2014(v59) 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**	**-.02352**	**-.00278**	**-.00113**	**.00023**	**-.00017**	**.01724**	**-.00048**	**-.00028**
Stddev	.00002	.01777	.00084	.00009	.00002	.00020	.02866	.00005	.00005
%RSD	12.022	75.528	30.159	8.0998	9.0827	120.86	166.26	10.870	18.843
#1	-.00020	-.01096	-.00219	-.00120	.00021	-.00031	-.00303	-.00044	-.00024
#2	-.00017	-.03609	-.00338	-.00107	.00024	-.00002	.03751	-.00051	-.00032
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	**-.00019**	**-.00015**	**.00215**	**.01274**	**.00165**	**.00702**	**-.00008**	**-.00037**	**.06851**
Stddev	.00016	.00008	.00444	.00864	.00050	.00067	.00002	.00000	.01334
%RSD	80.915	53.294	207.00	67.829	30.131	9.4964	26.611	.54766	19.477
#1	-.00030	-.00010	-.00100	.00663	.00130	.00749	-.00009	-.00037	.07795
#2	-.00008	-.00021	.00529	.01886	.00200	.00655	-.00006	-.00037	.05908
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	**-.00047**	**.00064**	**-.02112**	**.00051**	**-.00069**	**-.03827**	**-.00097**	**.00007**	**-.00007**
Stddev	.00001	.00043	.00139	.00117	.00136	.00427	.00004	.00013	.00047
%RSD	2.9088	67.440	6.5572	229.18	196.84	11.153	4.4335	185.68	706.33
#1	-.00046	.00094	-.02210	-.00032	.00027	-.03526	-.00100	-.00002	-.00040
#2	-.00048	.00033	-.02014	.00134	-.00165	-.04129	-.00094	.00017	.00027
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	**-.00076**	**.00052**	**.00054**
Stddev	.00014	.00056	.00015
%RSD	18.607	108.71	28.484
#1	-.00086	.00092	.00043
#2	-.00066	.00012	.00064
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	**1103.4**	**4951.0**	**40899.**	**6269.3**
Stddev	4.1	46.7	204.	25.1
%RSD	.37331	.94357	.49889	.39976
#1	1106.3	4984.0	41043.	6251.5
#2	1100.5	4918.0	40755.	6287.0

Sample Name: MB 480-179224/1-A Acquired: 5/1/2014 16:41:01 Type: Unk
Method: ICAP 2 March 2014(v59) 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**	**-.00770**	**-.00134**	**-.00072**	**.00050**	**-.00017**	**.05819**	**-.00042**	**-.00027**
Stddev	.00060	.01972	.00081	.00025	.00001	.00011	.01057	.00011	.00012
%RSD	166.85	255.99	60.609	35.037	1.2295	64.870	18.156	25.364	43.159
#1	.00079	.00624	-.00191	-.00090	.00050	-.00025	.06567	-.00049	-.00019
#2	-.00007	-.02165	-.00076	-.00054	.00049	-.00009	.05072	-.00034	-.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	**-.00019**	**.00009**	**.00398**	**.03411**	**.00168**	**.01187**	**.00113**	**-.00039**	**.09153**
Stddev	.00047	.00052	.00123	.03687	.00039	.00540	.00003	.00026	.00227
%RSD	245.30	561.80	30.803	108.07	23.219	45.533	2.7166	67.327	2.4805
#1	.00014	-.00028	.00484	.06018	.00196	.01569	.00115	-.00058	.09314
#2	-.00053	.00046	.00311	.00805	.00141	.00805	.00111	-.00021	.08992
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**	**.00045**	**-.01785**	**.00060**	**.00202**	**.03328**	F **.01914**	**.00012**	**.00100**
Stddev	.00015	.00116	.00015	.00090	.00183	.01575	.00002	.00001	.00015
%RSD	58.117	260.85	.82328	150.98	90.950	47.321	.07926	6.5672	15.237
#1	-.00036	-.00038	-.01796	.00124	.00072	.04441	.01913	.00012	.00089
#2	-.00015	.00127	-.01775	-.00004	.00331	.02214	.01915	.00011	.00111
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit							.01000		
Low Limit							-.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	**-.00106**	**.00037**	**.00292**
Stddev	.00004	.00074	.00005
%RSD	3.8360	199.49	1.7685
#1	-.00109	.00089	.00296
#2	-.00103	-.00015	.00288
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	**1094.6**	**4907.3**	**40136.**	**6250.1**
Stddev	1.9	7.1	30.	44.4
%RSD	.17285	.14441	.07379	.71031
#1	1093.3	4902.3	40157.	6218.7
#2	1096.0	4912.3	40115.	6281.5

Sample Name: CCV Acquired: 5/1/2014 16:43:53 Type: QC
Method: ICAP 2 March 2014(v59) 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	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.49433**	**24.843**	**.50895**	**.49159**	**.50435**	**.48837**	**24.354**	**.49959**	**.49433**	**.50166**	**.50575**	**24.039**	**24.860**
Stddev	.00233	.127	.00379	.00328	.00260	.00092	.043	.00001	.00403	.00231	.00096	.007	.039
%RSD	.47210	.51192	.74509	.66628	.51458	.18770	.17702	.00195	.81533	.45958	.18912	.03005	.15624
#1	.49598	24.933	.51163	.49391	.50251	.48902	24.384	.49960	.49148	.50329	.50642	24.034	24.833
#2	.49268	24.754	.50627	.48928	.50618	.48772	24.323	.49958	.49718	.50003	.50507	24.044	24.888
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
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	**.51598**	**25.434**	**.51616**	**.50986**	**24.784**	**.50194**	**.49829**	**24.327**	**.51152**	**.49982**	**24.578**	**.49283**	**.49460**
Stddev	.00076	.042	.00202	.00492	.041	.00006	.00048	.055	.00331	.00529	.143	.00314	.00089
%RSD	.14791	.16557	.39061	.96528	.16653	.01247	.09673	.22760	.64690	1.0578	.58153	.63735	.17970
#1	.51652	25.463	.51759	.51334	24.813	.50190	.49795	24.366	.51386	.50356	24.477	.49505	.49523
#2	.51544	25.404	.51473	.50638	24.755	.50199	.49864	24.288	.50918	.49608	24.679	.49061	.49397
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
Value													
Range													

Elem	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm
Avg	**.51215**	**.49595**	**.50136**	**.51682**
Stddev	.00159	.00223	.00127	.00244
%RSD	.31128	.44910	.25377	.47234
#1	.51328	.49752	.50226	.51855
#2	.51103	.49437	.50046	.51509
Check ?	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	**974.27**	**4728.8**	**38263.**	**6168.8**
Stddev	8.96	11.5	36.	23.3
%RSD	.91992	.24236	.09472	.37790
#1	980.61	4736.9	38238.	6185.3
#2	967.93	4720.7	38289.	6152.3

Sample Name: CCB Acquired: 5/1/2014 16:46:31 Type: QC
Method: ICAP 2 March 2014(v59) 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	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00025**	**.01569**	**-.00065**	**-.00101**	**.00001**	**-.00001**	**.00638**	**-.00034**	**-.00047**	**-.00023**	**.00035**	**.00360**	**.04194**
Stddev	.00047	.02814	.00008	.00023	.00003	.00004	.00197	.00008	.00001	.00022	.00023	.00045	.00530
%RSD	186.77	179.37	11.939	23.091	219.53	289.05	30.802	25.073	3.0029	98.474	65.849	12.584	12.643
#1	.00008	.03558	-.00070	-.00084	.00004	-.00004	.00499	-.00040	-.00048	-.00038	.00051	.00392	.03819
#2	-.00058	-.00421	-.00059	-.00117	-.00001	.00001	.00777	-.00028	-.00046	-.00007	.00019	.00328	.04569
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
High Limit													
Low Limit													

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	**.00168**	**.00092**	**.00006**	**-.00018**	**.08188**	**-.00066**	**-.00047**	**-.02189**	**.00093**	**.00039**	**-.04024**	**-.00088**	**.00018**
Stddev	.00116	.00310	.00006	.00014	.01502	.00012	.00037	.00103	.00013	.00031	.00011	.00009	.00007
%RSD	69.057	334.90	85.620	74.308	18.345	17.924	80.329	4.6994	14.495	77.424	.28230	10.233	41.281
#1	.00250	.00311	.00003	-.00028	.09250	-.00074	-.00073	-.02261	.00084	.00061	-.04032	-.00094	.00023
#2	.00086	-.00126	.00010	-.00009	.07125	-.00057	-.00020	-.02116	.00103	.00018	-.04016	-.00081	.00013
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
High Limit													
Low Limit													

Elem	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm
Avg	**.00042**	**-.00087**	**.00008**	**-.00014**
Stddev	.00013	.00009	.00027	.00014
%RSD	31.066	10.768	333.36	102.37
#1	.00033	-.00080	-.00011	-.00004
#2	.00051	-.00094	.00027	-.00023
Check ?	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	**1068.5**	**4791.4**	**39208.**	**6173.2**
Stddev	2.3	9.9	175.	28.7
%RSD	.21927	.20582	.44672	.46557
#1	1066.9	4784.4	39332.	6152.8
#2	1070.2	4798.4	39085.	6193.5

Sample Name: CCVL Acquired: 5/1/2014 16:49:21 Type: QC
Method: ICAP 2 March 2014(v59) 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**	**.18229**	**.01203**	**.01878**	**.00231**	**.00187**	**.47207**	**.00167**	**.00340**	**.00385**	**.00983**	**.04547**
Stddev	.00038	.05156	.00008	.00002	.00000	.00005	.00132	.00004	.00007	.00052	.00048	.00268
%RSD	6.3721	28.283	.66618	.10986	.07191	2.8220	.27931	2.5531	2.0336	13.420	4.8381	5.9044
#1	.00615	.14583	.01209	.01876	.00231	.00191	.47114	.00170	.00335	.00421	.00949	.04357
#2	.00562	.21874	.01198	.01879	.00231	.00183	.47301	.00164	.00345	.00348	.01016	.04737
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	**.47436**	**.02953**	**.19728**	**.00291**	**.00942**	**1.0375**	**.00880**	**.00982**	F **-.02267**	**.01935**	**.02705**	**.41720**
Stddev	.04186	.00082	.00038	.00002	.00008	.0195	.00045	.00109	.00168	.00089	.00251	.00938
%RSD	8.8252	2.7655	.19432	.58942	.86744	1.8753	5.1672	11.046	7.4325	4.5839	9.2880	2.2490
#1	.44476	.03011	.19701	.00290	.00948	1.0513	.00912	.00906	-.02148	.01998	.02882	.42384
#2	.50396	.02895	.19756	.00292	.00937	1.0237	.00848	.01059	-.02386	.01873	.02527	.41057
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
Value									.20000			
Range									-50.000%			

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00764**	**.00474**	**.00531**	**.01857**	**.00530**	**.00994**
Stddev	.00015	.00001	.00010	.00095	.00025	.00035
%RSD	2.0207	.17293	1.8264	5.1312	4.7381	3.4813
#1	.00775	.00473	.00538	.01925	.00548	.00970
#2	.00753	.00474	.00524	.01790	.00513	.01019
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	**1074.5**	**4837.7**	**40271.**	**6333.2**
Stddev	4.6	4.0	232.	1.5
%RSD	.42865	.08305	.57639	.02385
#1	1077.7	4834.8	40435.	6334.3
#2	1071.2	4840.5	40107.	6332.2

Sample Name: LCSSRM 480-179224/2- Acquired: 5/1/2014 16:52:09 Type: Unk
Method: ICAP 2 March 2014(v59) 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	**.65994**	**65.312**	**.87616**	**.99785**	**1.9820**	**.54885**	**70.216**	**1.3667**	**2.0353**
Stddev	.00163	.112	.00049	.00142	.0040	.00155	.240	.0003	.0024
%RSD	.24690	.17210	.05557	.14252	.20108	.28200	.34175	.01841	.11590
#1	.65879	65.392	.87651	.99685	1.9848	.54994	70.385	1.3665	2.0336
#2	.66109	65.233	.87582	.99886	1.9791	.54776	70.046	1.3669	2.0369
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	**.80377**	**2.5623**	**91.370**	**21.832**	**.07255**	**24.926**	**4.1904**	**1.0035**	**9.9739**
Stddev	.00054	.0063	.129	.001	.00181	.024	.0038	.0009	.0134
%RSD	.06718	.24696	.14094	.00578	2.4941	.09499	.08973	.08591	.13478
#1	.80339	2.5578	91.461	21.833	.07383	24.909	4.1930	1.0029	9.9834
#2	.80415	2.5668	91.279	21.831	.07127	24.943	4.1877	1.0041	9.9644
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	**2.3965**	**1.0803**	**2.2131**	**.76140**	**1.2466**	**23.649**	**1.4141**	**1.5711**	**2.3898**
Stddev	.0051	.0045	.0077	.00058	.0012	.113	.0014	.0017	.0020
%RSD	.21409	.41553	.34989	.07621	.09753	.47820	.10028	.10785	.08219
#1	2.3929	1.0771	2.2076	.76181	1.2457	23.729	1.4131	1.5723	2.3885
#2	2.4002	1.0835	2.2186	.76099	1.2475	23.569	1.4151	1.5699	2.3912
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	None	Chk Pass	None	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	**1.4544**	**1.4478**	**1.2101**
Stddev	.0009	.0033	.0028
%RSD	.06294	.22922	.23397
#1	1.4537	1.4454	1.2121
#2	1.4550	1.4501	1.2081
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	**933.83**	**4851.9**	**39515.**	**6364.0**
Stddev	1.48	5.4	41.	10.1
%RSD	.15874	.11030	.10433	.15906
#1	934.88	4855.7	39485.	6356.9
#2	932.78	4848.1	39544.	6371.2

Sample Name: 480-58830-A-1-A Acquired: 5/1/2014 16:54:45 Type: Unk
Method: ICAP 2 March 2014(v59) 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	**.00056**	**6.1648**	**.00754**	**.13358**	**2.9840**	**.00018**	F **1496.8**	**.00580**	**.09152**
Stddev	.00102	.0348	.00103	.00077	.0163	.00004	10.0	.00041	.00061
%RSD	181.88	.56386	13.604	.57378	.54756	22.575	.66503	7.1165	.66490
#1	.00128	6.1893	.00682	.13412	2.9956	.00021	1503.8	.00610	.09195
#2	-.00016	6.1402	.00827	.13304	2.9725	.00015	1489.8	.00551	.09109
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit							900.00		
Low Limit							-.50000		

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	**.08388**	**.00765**	**3.2294**	**1.1169**	**.17625**	F **763.29**	**.36008**	**.00141**	**1.7603**
Stddev	.00019	.00005	.0443	.0154	.00003	9.63	.00073	.00016	.0014
%RSD	.22676	.62201	1.3711	1.3791	.01425	1.2617	.20203	11.270	.07866
#1	.08374	.00768	3.2607	1.1060	.17623	770.10	.36059	.00152	1.7593
#2	.08401	.00761	3.1981	1.1277	.17627	756.48	.35957	.00129	1.7612
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit						450.00			
Low Limit						-.20000			

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	**.00610**	**60.803**	**336.32**	**.00222**	**-.00950**	**4.8888**	**.02019**	**5.6050**	**1.7394**
Stddev	.00024	.429	1.57	.00034	.00243	.0206	.00039	.0312	.0119
%RSD	3.9038	.70612	.46780	15.376	25.561	.42149	1.9157	.55583	.68231
#1	.00627	61.107	337.43	.00246	-.00779	4.9034	.02046	5.6270	1.7478
#2	.00593	60.500	335.20	.00198	-.01122	4.8743	.01992	5.5830	1.7310
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	**-.00462**	**.00819**	**12.545**
Stddev	.00054	.00015	.032
%RSD	11.686	1.8284	.25417
#1	-.00424	.00808	12.567
#2	-.00500	.00830	12.522
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	**742.70**	**3934.0**	**32364.**	**5873.3**
Stddev	.17	1.9	434.	41.2
%RSD	.02267	.04761	1.3406	.70202
#1	742.82	3932.6	32057.	5844.1
#2	742.58	3935.3	32671.	5902.4

Sample Name: 480-58830-A-1-Asd@5 Acquired: 5/1/2014 16:57:48 Type: Unk
Method: ICAP 2 March 2014(v59) 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	**.00078**	**1.8203**	**.00130**	**.03894**	**.90313**	**.00006**	**485.37**	**.00160**	**.02763**
Stddev	.00026	.0110	.00018	.00022	.00074	.00000	2.96	.00007	.00010
%RSD	32.860	.60204	14.045	.56234	.08229	7.2863	.60887	4.3331	.37498
#1	.00060	1.8126	.00143	.03909	.90365	.00006	487.46	.00165	.02756
#2	.00096	1.8281	.00117	.03878	.90260	.00006	483.28	.00155	.02771
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	**.02614**	**.00290**	**1.0067**	**.32180**	**.04945**	**240.47**	**.11288**	**.00004**	**.56885**
Stddev	.00005	.00019	.0023	.04544	.00114	.42	.00327	.00018	.00156
%RSD	.20266	6.5301	.22727	14.120	2.3091	.17328	2.8974	516.08	.27475
#1	.02617	.00303	1.0051	.28967	.04864	240.76	.11519	.00016	.56996
#2	.02610	.00277	1.0083	.35393	.05026	240.17	.11057	-.00009	.56775
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	**.00141**	**18.237**	**94.583**	**-.00066**	**-.00346**	**1.4354**	**.00531**	**1.7197**	**.57073**
Stddev	.00023	.095	.067	.00085	.00093	.0097	.00032	.0029	.00154
%RSD	16.275	.52254	.07110	129.05	26.954	.67410	5.9557	.16955	.26924
#1	.00124	18.169	94.536	-.00126	-.00412	1.4286	.00553	1.7218	.57181
#2	.00157	18.304	94.631	-.00006	-.00280	1.4423	.00508	1.7177	.56964
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**	**.00128**	**3.9913**
Stddev	.00058	.00115	.0217
%RSD	51.280	89.586	.54465
#1	-.00072	.00047	4.0067
#2	-.00154	.00210	3.9759
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	**841.12**	**4251.5**	**35463.**	**6144.1**
Stddev	5.60	3.9	39.	72.1
%RSD	.66624	.09072	.10933	1.1731
#1	845.09	4254.2	35436.	6093.1
#2	837.16	4248.7	35490.	6195.1

Sample Name: 480-58830-A-1-A pds Acquired: 5/1/2014 17:00:44 Type: Unk
Method: ICAP 2 March 2014(v59) 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	**.11903**	**31.955**	**.51423**	**.66729**	**5.6896**	**.37654**	F **2417.8**	**.47731**	**.59010**
Stddev	.00054	.094	.00447	.00102	.0263	.00324	6.3	.00030	.00071
%RSD	.45150	.29260	.86975	.15261	.46312	.86161	.26026	.06383	.11986
#1	.11865	32.021	.51107	.66657	5.7083	.37883	2422.2	.47709	.59060
#2	.11941	31.889	.51740	.66801	5.6710	.37424	2413.3	.47752	.58960
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit							900.00		
Low Limit							-.50000		

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	**.52475**	**.46558**	**22.923**	**24.123**	**.81667**	F **1296.6**	**.99432**	**.41141**	**25.035**
Stddev	.00187	.00174	.119	.156	.00253	1.0	.00626	.00117	.151
%RSD	.35573	.37392	.51905	.64506	.30921	.07509	.62910	.28445	.60485
#1	.52343	.46435	23.007	24.233	.81845	1296.0	.98990	.41058	25.142
#2	.52607	.46681	22.839	24.013	.81488	1297.3	.99875	.41224	24.928
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit						450.00			
Low Limit						-.20000			

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	**.42517**	**105.87**	**559.13**	**.46277**	**.48823**	**8.4661**	**.37390**	F **10.259**	**3.6689**
Stddev	.00125	.00	1.14	.00253	.00689	.0144	.00169	.237	.0231
%RSD	.29483	.00351	.20350	.54636	1.4104	.16992	.45090	2.3129	.62860
#1	.42605	105.87	558.32	.46098	.48336	8.4763	.37271	10.427	3.6526
#2	.42428	105.87	559.93	.46455	.49310	8.4560	.37509	10.091	3.6852
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	**.38440**	**.42929**	F **20.320**
Stddev	.00222	.00148	.081
%RSD	.57721	.34475	.39669
#1	.38283	.42824	20.263
#2	.38597	.43034	20.377
Check ?	Chk Pass	Chk Pass	Chk Fail
High Limit			18.000
Low Limit			-.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	**638.97**	**3536.7**	**30169.**	**5790.6**
Stddev	1.12	4.2	92.	32.9
%RSD	.17547	.11989	.30535	.56887
#1	638.17	3533.7	30235.	5767.3
#2	639.76	3539.7	30104.	5813.9

Sample Name: 480-58830-A-1-B MS Acquired: 5/1/2014 17:03:40 Type: Unk
Method: ICAP 2 March 2014(v59) 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	**.09627**	**28.037**	**.35861**	**.50104**	**4.0483**	**.30597**	F **1637.9**	**.36761**	**.42574**
Stddev	.00016	.326	.00244	.00230	.0426	.00343	15.2	.00024	.00022
%RSD	.16120	1.1636	.68046	.46002	1.0523	1.1197	.92509	.06550	.05127
#1	.09616	27.807	.36034	.49941	4.0182	.30354	1627.2	.36744	.42558
#2	.09638	28.268	.35689	.50267	4.0784	.30839	1648.6	.36778	.42589
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit							900.00		
Low Limit							-.50000		

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	**.40052**	**.35696**	**17.972**	**18.754**	**.55663**	F **865.39**	**.68507**	**.30122**	**19.192**
Stddev	.00140	.00097	.127	.180	.00712	1.21	.00073	.00044	.180
%RSD	.34930	.27292	.70627	.96157	1.2787	.13985	.10612	.14466	.93663
#1	.40151	.35765	17.882	18.626	.55159	864.53	.68558	.30091	19.065
#2	.39953	.35627	18.062	18.882	.56166	866.24	.68455	.30153	19.319
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit						450.00			
Low Limit						-.20000			

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	**.33189**	**64.963**	**367.47**	**.35482**	**.36326**	**24.767**	**.34896**	**6.8682**	**2.1102**
Stddev	.00018	.048	.44	.00044	.00230	.010	.00277	.0972	.0070
%RSD	.05512	.07410	.11936	.12518	.63252	.04099	.79515	1.4154	.33197
#1	.33176	64.998	367.16	.35514	.36164	24.774	.34700	6.7995	2.1151
#2	.33202	64.929	367.78	.35451	.36489	24.759	.35093	6.9370	2.1052
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	**.31494**	**.34377**	**12.497**
Stddev	.00002	.00089	.016
%RSD	.00530	.25855	.12488
#1	.31495	.34440	12.508
#2	.31493	.34314	12.486
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	**709.13**	**3837.3**	**32220.**	**5885.2**
Stddev	.32	5.0	55.	47.8
%RSD	.04567	.13094	.17188	.81164
#1	709.36	3840.9	32259.	5919.0
#2	708.90	3833.8	32181.	5851.5

Sample Name: 480-58830-A-1-C MSD Acquired: 5/1/2014 17:06:38 Type: Unk
Method: ICAP 2 March 2014(v59) 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	**.09899**	**30.457**	**.36344**	**.51783**	**4.7752**	**.31498**	F **1631.2**	**.38236**	**.46910**
Stddev	.00098	.067	.00400	.00302	.0118	.00034	3.9	.00245	.00219
%RSD	.99107	.21851	1.1003	.58286	.24784	.10787	.24196	.64051	.46728
#1	.09968	30.504	.36627	.51996	4.7668	.31474	1634.0	.38409	.47065
#2	.09830	30.410	.36061	.51570	4.7835	.31522	1628.4	.38062	.46755
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit							900.00		
Low Limit							-.50000		

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	**.44083**	**.37475**	**18.251**	**19.498**	**.56768**	F **839.04**	**.70286**	**.30328**	**20.144**
Stddev	.00155	.00043	.081	.182	.00068	7.69	.00031	.00236	.045
%RSD	.35223	.11536	.44626	.93317	.12015	.91692	.04347	.77654	.22578
#1	.44193	.37505	18.194	19.369	.56720	833.60	.70264	.30494	20.111
#2	.43974	.37444	18.309	19.627	.56817	844.48	.70308	.30161	20.176
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit						450.00			
Low Limit						-.20000			

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	**.34302**	**88.549**	**392.39**	**.36587**	**.37493**	**25.620**	**.35323**	**7.0334**	**2.2521**
Stddev	.00180	.405	2.04	.00285	.00133	.012	.00295	.0599	.0005
%RSD	.52580	.45709	.52042	.77768	.35419	.04693	.83429	.85107	.02229
#1	.34430	88.835	393.83	.36788	.37587	25.628	.35531	6.9910	2.2525
#2	.34175	88.263	390.94	.36386	.37400	25.611	.35115	7.0757	2.2518
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	**.32433**	**.35672**	**17.129**
Stddev	.00658	.00128	.007
%RSD	2.0293	.35811	.04286
#1	.32899	.35763	17.124
#2	.31968	.35582	17.134
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	**705.23**	**3805.8**	**32138.**	**5964.2**
Stddev	1.92	13.0	74.	13.9
%RSD	.27210	.34087	.22936	.23370
#1	703.87	3796.6	32190.	5974.1
#2	706.58	3815.0	32086.	5954.4

Sample Name: 480-58830-A-2-A Acquired: 5/1/2014 17:09:33 Type: Unk
Method: ICAP 2 March 2014(v59) 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**	**7.3655**	**-.00419**	**.03669**	**.29319**	**-.00005**	**1.3209**	**.00010**	**-.00019**
Stddev	.00026	.0068	.00061	.00061	.00067	.00002	.2491	.00014	.00007
%RSD	381.29	.09246	14.549	1.6532	.22777	49.245	18.860	147.93	36.211
#1	-.00012	7.3703	-.00463	.03626	.29366	-.00006	1.1447	.00020	-.00014
#2	.00026	7.3607	-.00376	.03712	.29272	-.00003	1.4970	.00000	-.00024
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	**2.4917**	**.01763**	**8.9208**	**.23014**	**.00410**	**.53577**	**.01944**	**.00977**	**1.4885**
Stddev	.0011	.00025	.0316	.00866	.00023	.00664	.00027	.00036	.0018
%RSD	.04343	1.4394	.35477	3.7632	5.7072	1.2390	1.3808	3.7128	.12260
#1	2.4925	.01745	8.9432	.23627	.00394	.54046	.01925	.00951	1.4898
#2	2.4910	.01781	8.8984	.22402	.00427	.53107	.01963	.01002	1.4872
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	**.00323**	**13.194**	**1.6635**	**.02993**	**.00201**	**.54899**	**.02312**	**.00849**	**.32482**
Stddev	.00014	.233	.0138	.00200	.00087	.02885	.00069	.00087	.00015
%RSD	4.3309	1.7688	.83002	6.6746	43.313	5.2546	2.9901	10.252	.04576
#1	.00333	13.029	1.6537	.02851	.00139	.52859	.02263	.00787	.32472
#2	.00313	13.359	1.6732	.03134	.00263	.56939	.02361	.00910	.32493
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**	**.00279**	**2.1794**
Stddev	.00097	.00065	.0153
%RSD	447.79	23.254	.70086
#1	.00047	.00233	2.1686
#2	-.00090	.00325	2.1902
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	**1060.1**	**4788.5**	**39829.**	**6302.8**
Stddev	14.7	61.3	39.	5.4
%RSD	1.3901	1.2798	.09830	.08532
#1	1070.5	4831.8	39802.	6306.7
#2	1049.6	4745.1	39857.	6299.0

Sample Name: blank Acquired: 5/1/2014 17:12:18 Type: Unk
Method: ICAP 2 March 2014(v59) 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**	**-.00130**	**-.00163**	**.00152**	**.00042**	**-.00013**	**.01076**	**.00022**	**-.00104**
Stddev	.00006	.00950	.00237	.00010	.00012	.00004	.00058	.00003	.00014
%RSD	109.80	733.15	145.45	6.6790	28.616	33.400	5.3482	12.049	13.673
#1	.00001	.00542	.00005	.00159	.00033	-.00010	.01117	.00024	-.00114
#2	.00010	-.00801	-.00331	.00145	.00050	-.00015	.01036	.00020	-.00094
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	**.00037**	**-.00056**	**-.00144**	**.03413**	**.00187**	**.01684**	**-.00039**	**.00057**	**.10449**
Stddev	.00024	.00003	.00225	.01353	.00183	.01036	.00005	.00009	.00672
%RSD	64.495	5.3673	156.63	39.642	97.829	61.544	11.982	16.204	6.4277
#1	.00054	-.00058	-.00303	.02456	.00058	.00951	-.00036	.00050	.09974
#2	.00020	-.00054	.00015	.04370	.00317	.02417	-.00042	.00063	.10924
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	**-.00022**	**.00986**	**.04097**	**.00140**	**.00188**	**.02706**	**-.00007**	**.00004**	**.00074**
Stddev	.00036	.01109	.05320	.00057	.00082	.02434	.00030	.00008	.00028
%RSD	166.38	112.48	129.87	40.825	43.430	89.975	425.52	187.49	38.257
#1	-.00047	.00202	.00335	.00099	.00245	.00984	-.00028	.00010	.00094
#2	.00004	.01770	.07859	.00180	.00130	.04427	.00014	-.00001	.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	**-.00554**	**.00074**	**.00063**
Stddev	.00026	.00047	.00021
%RSD	4.6760	62.815	33.201
#1	-.00535	.00041	.00078
#2	-.00572	.00107	.00048
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	**986.27**	**4154.9**	**36163.**	**5679.0**
Stddev	3.32	14.8	227.	64.4
%RSD	.33649	.35728	.62826	1.1340
#1	988.62	4144.4	36003.	5633.5
#2	983.92	4165.4	36324.	5724.5

Sample Name: blank Acquired: 5/1/2014 17:15:07 Type: Unk
Method: ICAP 2 March 2014(v59) 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**	**-.03911**	**-.00276**	**.00110**	**.00030**	**-.00025**	**.00661**	**.00026**	**-.00088**
Stddev	.00043	.03199	.00080	.00043	.00002	.00006	.00147	.00003	.00016
%RSD	206.93	81.782	29.096	39.338	6.4560	23.541	22.263	9.7423	18.231
#1	.00051	-.01649	-.00333	.00141	.00031	-.00020	.00557	.00025	-.00099
#2	-.00010	-.06173	-.00219	.00080	.00028	-.00029	.00765	.00028	-.00077
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**	**-.00025**	**.00167**	**-.00513**	**.00008**	**-.00333**	**-.00045**	**.00027**	**.09913**
Stddev	.00026	.00027	.00678	.05424	.00036	.00055	.00003	.00006	.01109
%RSD	82.414	104.62	406.41	1058.0	452.07	16.570	7.1539	21.757	11.192
#1	-.00050	-.00044	.00646	-.04348	-.00017	-.00294	-.00047	.00023	.09128
#2	-.00013	-.00007	-.00312	.03322	.00033	-.00372	-.00042	.00031	.10697
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	**-.00069**	**.00174**	**-.00997**	**.00104**	**.00119**	**-.01883**	**.00002**	**-.00004**	**.00044**
Stddev	.00028	.00061	.00043	.00104	.00034	.01512	.00005	.00007	.00043
%RSD	40.510	34.943	4.2847	99.767	28.177	80.285	237.15	186.09	99.345
#1	-.00088	.00131	-.01027	.00031	.00095	-.02952	.00006	-.00009	.00013
#2	-.00049	.00217	-.00967	.00177	.00143	-.00814	-.00002	.00001	.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	**-.00462**	**.00057**	**.00108**
Stddev	.00014	.00030	.00042
%RSD	2.9419	52.464	38.646
#1	-.00472	.00036	.00138
#2	-.00453	.00079	.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	**999.21**	**4189.9**	**36688.**	**5815.7**
Stddev	3.74	3.0	26.	50.7
%RSD	.37426	.07155	.07159	.87095
#1	1001.9	4187.8	36670.	5779.8
#2	996.57	4192.0	36707.	5851.5

Sample Name: CCV Acquired: 5/1/2014 17:17:57 Type: QC
Method: ICAP 2 March 2014(v59) 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	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.49636**	**25.307**	**.51458**	**.49990**	**.51171**	**.49513**	**24.977**	**.50680**	**.49952**	**.50811**	**.50471**	**24.378**	**25.365**
Stddev	.00099	.099	.00216	.00126	.00233	.00056	.082	.00001	.00180	.00299	.00307	.131	.037
%RSD	.20022	.39281	.42031	.25211	.45517	.11288	.32888	.00226	.36075	.58937	.60915	.53623	.14735
#1	.49566	25.378	.51611	.49901	.51006	.49473	25.035	.50679	.50079	.51022	.50253	24.471	25.391
#2	.49707	25.237	.51305	.50080	.51335	.49552	24.919	.50681	.49824	.50599	.50688	24.286	25.338
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
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	**.52267**	**25.825**	**.52574**	**.52068**	**25.289**	**.51096**	**.50710**	**24.551**	**.51960**	**.50561**	**24.987**	**.50269**	**.49892**
Stddev	.00285	.020	.00142	.00095	.056	.00155	.00121	.061	.00187	.00154	.108	.00256	.00004
%RSD	.54583	.07646	.26994	.18167	.22193	.30383	.23787	.25008	.36051	.30548	.43031	.50975	.00737
#1	.52065	25.839	.52674	.52135	25.328	.51206	.50795	24.508	.52092	.50670	24.911	.50450	.49890
#2	.52468	25.811	.52473	.52001	25.249	.50986	.50625	24.594	.51827	.50452	25.063	.50088	.49895
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
Value													
Range													

Elem	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm
Avg	**.51449**	**.50586**	**.50691**	**.52797**
Stddev	.00045	.00315	.00009	.00284
%RSD	.08688	.62287	.01791	.53765
#1	.51417	.50809	.50684	.52998
#2	.51481	.50364	.50697	.52597
Check ?	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	**980.32**	**4739.6**	**38808.**	**6113.5**
Stddev	4.65	32.2	145.	22.8
%RSD	.47387	.67899	.37270	.37333
#1	983.60	4762.4	38910.	6097.4
#2	977.03	4716.9	38706.	6129.6

Sample Name: CCB Acquired: 5/1/2014 17:20:35 Type: QC
Method: ICAP 2 March 2014(v59) 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	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00005**	**-.00163**	**-.00212**	**-.00059**	**.00004**	**-.00001**	**.00688**	**-.00027**	**-.00020**	**.00008**	**.00070**	**.00398**	**-.02589**
Stddev	.00033	.02766	.00044	.00025	.00001	.00001	.00656	.00016	.00008	.00024	.00033	.00236	.00789
%RSD	652.30	1695.2	20.653	43.171	23.800	114.53	95.320	58.623	42.693	309.84	46.921	59.222	30.482
#1	-.00028	-.02119	-.00244	-.00041	.00005	-.00001	.01152	-.00038	-.00014	.00025	.00094	.00565	-.03147
#2	.00018	.01793	-.00181	-.00077	.00003	.00000	.00224	-.00016	-.00025	-.00009	.00047	.00231	-.02031
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
High Limit													
Low Limit													

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	**.00153**	**.00491**	**-.00004**	**-.00009**	**.07390**	**-.00064**	**.00022**	**.00036**	**.00099**	**.00054**	**-.04173**	**-.00105**	**.00012**
Stddev	.00208	.00702	.00001	.00044	.00129	.00032	.00065	.00767	.00158	.00075	.02533	.00022	.00005
%RSD	135.57	142.92	29.427	480.08	1.7389	50.366	299.30	2156.4	160.06	139.85	60.705	21.188	38.390
#1	.00006	.00987	-.00003	-.00041	.07299	-.00087	-.00024	-.00506	-.00013	.00001	-.05964	-.00120	.00016
#2	.00300	-.00005	-.00005	.00022	.07481	-.00041	.00068	.00578	.00210	.00106	-.02382	-.00089	.00009
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
High Limit													
Low Limit													

Elem	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm
Avg	**.00079**	**.00035**	**.00004**	**.00022**
Stddev	.00017	.00065	.00006	.00080
%RSD	21.856	188.33	143.62	369.31
#1	.00091	.00081	.00000	-.00035
#2	.00066	-.00011	.00009	.00078
Check ?	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	**1074.4**	**4792.6**	**39971.**	**6106.9**
Stddev	.8	1.5	45.	34.2
%RSD	.06990	.03117	.11269	.56023
#1	1073.9	4793.7	39939.	6082.7
#2	1074.9	4791.6	40003.	6131.1

Sample Name: CCVL Acquired: 5/1/2014 17:23:26 Type: QC
Method: ICAP 2 March 2014(v59) 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	.00492	.18153	.01263	.01874	.00231	.00183	.47673	.00157	.00339	.00393	.00986	.05080
Stddev	.00017	.00910	.00175	.00031	.00001	.00014	.00544	.00004	.00007	.00020	.00020	.00625
%RSD	3.3740	5.0146	13.855	1.6390	.61723	7.5051	1.1413	2.5382	2.0785	5.1441	2.0700	12.300
#1	.00504	.18797	.01139	.01896	.00232	.00193	.48058	.00154	.00344	.00408	.00972	.05521
#2	.00480	.17510	.01387	.01852	.00230	.00174	.47288	.00160	.00334	.00379	.01001	.04638
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	.45525	.03033	.20500	.00303	.00957	1.0239	.00882	.00863	F -.00872	.01718	.02573	.42854
Stddev	.00801	.00082	.00170	.00003	.00002	.0010	.00005	.00039	.00095	.00004	.00385	.00387
%RSD	1.7598	2.7169	.83061	1.0108	.17776	.09347	.58927	4.5647	10.909	.24952	14.975	.90389
#1	.46092	.03091	.20379	.00306	.00958	1.0232	.00879	.00891	-.00805	.01715	.02846	.43128
#2	.44959	.02974	.20620	.00301	.00956	1.0246	.00886	.00835	-.00939	.01721	.02301	.42581
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
Value									.20000			
Range									-50.000%			

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00768	.00503	.00558	.01848	.00552	.01067
Stddev	.00003	.00008	.00031	.00024	.00000	.00119
%RSD	.33034	1.6726	5.5562	1.3153	.00662	11.167
#1	.00770	.00509	.00536	.01831	.00552	.00982
#2	.00766	.00497	.00579	.01865	.00552	.01151
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	1079.0	4853.2	39721.	6282.9
Stddev	.3	7.7	34.	6.5
%RSD	.03042	.15767	.08644	.10298
#1	1079.3	4847.8	39697.	6287.5
#2	1078.8	4858.6	39745.	6278.3

Sample Name: 480-58830-A-3-A Acquired: 5/1/2014 17:26:14 Type: Unk
Method: ICAP 2 March 2014(v59) 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**	**10.641**	**.00236**	**.20544**	**.05919**	**.00033**	**60.182**	**-.00005**	**.00263**
Stddev	.00014	.087	.00019	.00097	.00038	.00006	.300	.00009	.00007
%RSD	26.935	.81955	7.8611	.47291	.64968	17.424	.49791	184.76	2.7778
#1	.00041	10.580	.00223	.20475	.05892	.00037	59.970	.00002	.00258
#2	.00060	10.703	.00249	.20613	.05947	.00029	60.394	-.00011	.00268
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	**.01045**	**.05217**	**2.1077**	**22.025**	**.02386**	**8.6914**	**.10793**	**.00675**	**88.598**
Stddev	.00029	.00091	.0091	.156	.00106	.0315	.00048	.00029	.526
%RSD	2.7972	1.7399	.43138	.70725	4.4244	.36223	.44577	4.3659	.59413
#1	.01066	.05153	2.1013	21.915	.02461	8.6691	.10759	.00654	88.226
#2	.01024	.05281	2.1141	22.135	.02312	8.7137	.10827	.00696	88.971
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	**.01562**	**.06741**	**43.596**	**.00274**	**.00546**	**2.1738**	**.02377**	**.80416**	**3.5728**
Stddev	.00053	.00111	.293	.00073	.00222	.0132	.00026	.00665	.0056
%RSD	3.3992	1.6486	.67302	26.645	40.710	.60685	1.0860	.82738	.15665
#1	.01524	.06820	43.389	.00325	.00703	2.1645	.02396	.79946	3.5688
#2	.01600	.06662	43.804	.00222	.00389	2.1832	.02359	.80887	3.5767
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	**-.00467**	**.00633**	**.37248**
Stddev	.00212	.00013	.00042
%RSD	45.458	2.0999	.11267
#1	-.00317	.00642	.37218
#2	-.00617	.00624	.37277
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	**942.32**	**4596.4**	**38235.**	**6298.6**
Stddev	3.77	21.8	24.	19.0
%RSD	.40032	.47490	.06231	.30126
#1	944.99	4611.8	38251.	6312.0
#2	939.65	4581.0	38218.	6285.1

Sample Name: 480-58830-A-4-A Acquired: 5/1/2014 17:28:58 Type: Unk
Method: ICAP 2 March 2014(v59) 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	**.00084**	**20.253**	**.01075**	**.16588**	**.06612**	**.00049**	**253.09**	**.00120**	**.00198**
Stddev	.00068	.292	.00034	.00027	.00002	.00006	3.11	.00006	.00034
%RSD	80.487	1.4431	3.1621	.15997	.03470	13.126	1.2271	5.1534	17.186
#1	.00036	20.459	.01051	.16607	.06613	.00054	255.28	.00116	.00174
#2	.00132	20.046	.01099	.16569	.06610	.00044	250.89	.00125	.00222
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	**.02432**	**.09734**	**4.7732**	**63.245**	**.02755**	**10.253**	**.09341**	**.01828**	**102.32**
Stddev	.00077	.00003	.0288	.835	.00194	.004	.00061	.00027	.24
%RSD	3.1674	.02863	.60279	1.3209	7.0564	.04085	.64924	1.4497	.23207
#1	.02486	.09736	4.7936	63.835	.02617	10.250	.09383	.01809	102.49
#2	.02377	.09732	4.7529	62.654	.02892	10.256	.09298	.01847	102.15
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	**.01274**	**.28756**	**37.664**	**.00509**	**.00745**	**10.373**	**.03300**	**2.0234**	**5.3374**
Stddev	.00041	.00158	.017	.00020	.00149	.035	.00036	.0256	.0045
%RSD	3.2314	.55088	.04636	3.8668	20.072	.34190	1.1000	1.2646	.08479
#1	.01245	.28868	37.652	.00523	.00850	10.399	.03326	2.0415	5.3406
#2	.01304	.28644	37.677	.00495	.00639	10.348	.03275	2.0053	5.3342
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	**-.00701**	**.01355**	**1.0358**
Stddev	.00206	.00041	.0021
%RSD	29.431	2.9981	.19748
#1	-.00847	.01326	1.0344
#2	-.00555	.01384	1.0373
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	**887.59**	**4490.4**	**36871.**	**6239.3**
Stddev	3.59	.6	28.	69.7
%RSD	.40430	.01359	.07471	1.1169
#1	890.13	4490.0	36890.	6190.0
#2	885.05	4490.9	36851.	6288.5

Sample Name: 480-58830-A-5-A Acquired: 5/1/2014 17:31:39 Type: Unk
Method: ICAP 2 March 2014(v59) 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	**.01395**	**8.9179**	**-.00037**	**4.9107**	**2.5008**	**.00091**	**174.49**	**.05322**	**2.9380**
Stddev	.00043	.0134	.00608	.0028	.0119	.00008	1.09	.00018	.0027
%RSD	3.0492	.14994	1657.7	.05670	.47606	9.3260	.62572	.33978	.09074
#1	.01365	8.9274	.00393	4.9087	2.5093	.00085	175.26	.05309	2.9361
#2	.01425	8.9085	-.00467	4.9127	2.4924	.00097	173.71	.05335	2.9399
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	F **49.249**	**4.7818**	F **814.07**	**16.910**	**.24780**	**13.489**	**13.553**	**.17956**	**9.3434**
Stddev	.008	.0198	4.76	.008	.00019	.016	.051	.00022	.0386
%RSD	.01702	.41392	.58530	.04803	.07714	.11776	.37922	.12396	.41365
#1	49.255	4.7678	817.44	16.916	.24794	13.478	13.516	.17940	9.3708
#2	49.243	4.7958	810.70	16.905	.24767	13.500	13.589	.17972	9.3161
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	36.000		720.00						
Low Limit	-.00400		-.05000						

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	**.96612**	F **111.25**	**6.6929**	**3.8286**	**.00786**	**7.2560**	**.20452**	**.20792**	**.46211**
Stddev	.00096	.02	.0066	.0017	.00293	.0110	.00010	.00096	.00137
%RSD	.09949	.01641	.09937	.04453	37.341	.15158	.04862	.46019	.29690
#1	.96680	111.23	6.6882	3.8298	.00993	7.2637	.20459	.20859	.46114
#2	.96544	111.26	6.6976	3.8274	.00578	7.2482	.20445	.20724	.46308
Check ?	Chk Pass	Chk Fail	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		108.00							
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	**.01411**	**.09962**	F **70.702**
Stddev	.00023	.00049	.165
%RSD	1.6428	.48969	.23305
#1	.01427	.09928	70.585
#2	.01394	.09997	70.818
Check ?	Chk Pass	Chk Pass	Chk Fail
High Limit			18.000
Low Limit			-.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	**878.40**	**4312.8**	**36904.**	**6287.6**
Stddev	.27	3.5	142.	31.6
%RSD	.03024	.08119	.38590	.50221
#1	878.58	4315.2	37004.	6265.3
#2	878.21	4310.3	36803.	6310.0

Sample Name: 480-58830-A-5-A@5 Acquired: 5/1/2014 17:34:43 Type: Unk
Method: ICAP 2 March 2014(v59) 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	**.00301**	**1.7810**	**.00059**	**1.0086**	**.51367**	**.00017**	**35.633**	**.01011**	**.57247**
Stddev	.00120	.0322	.00067	.0012	.00443	.00010	.171	.00003	.00055
%RSD	39.950	1.8075	115.23	.11923	.86211	63.432	.48003	.29076	.09694
#1	.00216	1.8037	.00106	1.0094	.51680	.00009	35.754	.01013	.57287
#2	.00386	1.7582	.00011	1.0077	.51054	.00024	35.512	.01008	.57208
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	**10.388**	**.94308**	**172.43**	**3.3859**	**.05023**	**2.8995**	**2.9345**	**.03550**	**1.8969**
Stddev	.006	.00328	.49	.0042	.00166	.0014	.0061	.00002	.0046
%RSD	.05996	.34744	.28583	.12475	3.2968	.04823	.20742	.06796	.24341
#1	10.393	.94077	172.09	3.3829	.04906	2.9005	2.9302	.03548	1.8937
#2	10.384	.94540	172.78	3.3888	.05140	2.8985	2.9388	.03551	1.9002
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	**.18979**	**22.067**	**1.2934**	**.76633**	**.00212**	**1.4207**	**.03937**	**.04278**	**.09283**
Stddev	.00048	.009	.0070	.00263	.00397	.0015	.00018	.00002	.00094
%RSD	.25127	.03924	.54161	.34304	187.40	.10691	.45383	.05595	1.0149
#1	.19013	22.073	1.2984	.76447	.00493	1.4218	.03924	.04276	.09350
#2	.18945	22.061	1.2885	.76819	-.00069	1.4196	.03950	.04279	.09217
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	**.00236**	**.02011**	**16.647**
Stddev	.00091	.00080	.051
%RSD	38.445	3.9977	.30802
#1	.00172	.02068	16.683
#2	.00300	.01954	16.611
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	**1011.8**	**4700.3**	**39184.**	**6419.7**
Stddev	.1	2.3	77.	23.0
%RSD	.00573	.04827	.19768	.35800
#1	1011.8	4701.9	39129.	6403.5
#2	1011.9	4698.7	39239.	6436.0

Sample Name: 480-58830-A-5-A@10 Acquired: 5/1/2014 17:37:40 Type: Unk
Method: ICAP 2 March 2014(v59) 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	**.00202**	**.89183**	**-.00121**	**.51290**	**.26747**	**-.00004**	**18.423**	**.00502**	**.29616**
Stddev	.00028	.01602	.00169	.00131	.00064	.00000	.108	.00022	.00006
%RSD	14.039	1.7961	139.70	.25521	.23856	.48122	.58869	4.3387	.01941
#1	.00222	.90316	-.00241	.51197	.26793	-.00004	18.500	.00518	.29620
#2	.00182	.88051	-.00001	.51382	.26702	-.00004	18.346	.00487	.29612
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	**5.3343**	**.49286**	**89.222**	**1.7109**	**.02838**	**1.5178**	**1.5134**	**.01782**	**.98113**
Stddev	.0189	.00087	.001	.0084	.00227	.0040	.0047	.00004	.00508
%RSD	.35444	.17748	.00141	.49406	8.0137	.26217	.30916	.23199	.51776
#1	5.3477	.49347	89.223	1.7169	.02999	1.5149	1.5168	.01785	.97753
#2	5.3210	.49224	89.221	1.7049	.02677	1.5206	1.5101	.01779	.98472
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	**.09612**	**11.198**	**.64239**	**.38884**	**.00368**	**.73038**	**.01931**	**.02232**	**.04714**
Stddev	.00016	.003	.00329	.00097	.00015	.01342	.00019	.00013	.00023
%RSD	.16266	.02440	.51243	.25001	4.1990	1.8369	.97022	.59567	.49079
#1	.09601	11.196	.64007	.38815	.00379	.73987	.01945	.02223	.04698
#2	.09623	11.200	.64472	.38953	.00358	.72089	.01918	.02242	.04730
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**	**.01061**	**8.7296**
Stddev	.00082	.00043	.0236
%RSD	65.951	4.0202	.27005
#1	.00066	.01091	8.7463
#2	.00181	.01031	8.7129
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	**1031.0**	**4745.0**	**39211.**	**6304.8**
Stddev	.0	1.5	94.	40.5
%RSD	.00232	.03210	.23913	.64233
#1	1031.0	4743.9	39145.	6276.1
#2	1031.0	4746.1	39277.	6333.4

Sample Name: BLANK Acquired: 5/1/2014 17:40:20 Type: Unk
Method: ICAP 2 March 2014(v59) 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**	**-.01113**	**-.00110**	**.00583**	**.00018**	**-.00006**	**.03947**	**.00022**	**-.00099**
Stddev	.00013	.03379	.00036	.00006	.00009	.00015	.02470	.00005	.00018
%RSD	138.71	303.63	33.191	1.0955	49.451	250.85	62.585	20.926	18.278
#1	.00000	-.03503	-.00084	.00587	.00024	.00005	.02200	.00025	-.00112
#2	.00018	.01277	-.00136	.00578	.00011	-.00017	.05694	.00018	-.00086
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**	**.00055**	**.13184**	**.00876**	**.00064**	**.00495**	**.00026**	**.00017**	**.03425**
Stddev	.00163	.00035	.10630	.02633	.00051	.01156	.00057	.00007	.00983
%RSD	63.469	63.930	80.632	300.68	80.092	233.45	217.19	38.918	28.689
#1	.00372	.00080	.05667	-.00986	.00028	-.00322	.00066	.00021	.04120
#2	.00142	.00030	.20700	.02737	.00101	.01312	-.00014	.00012	.02731
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	**-.00020**	**.00127**	**-.02186**	**.00281**	**.00216**	**-.03311**	**-.00041**	**.00005**	**.00054**
Stddev	.00008	.00053	.00101	.00032	.00241	.01126	.00006	.00012	.00025
%RSD	38.483	41.803	4.6128	11.329	111.41	34.018	15.088	227.92	47.032
#1	-.00025	.00090	-.02115	.00259	.00046	-.04107	-.00046	-.00003	.00072
#2	-.00015	.00165	-.02257	.00304	.00387	-.02514	-.00037	.00014	.00036
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	**-.00502**	**.00040**	**.00377**
Stddev	.00050	.00038	.00302
%RSD	10.013	95.942	80.027
#1	-.00537	.00013	.00591
#2	-.00466	.00066	.00164
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	**1006.0**	**4228.8**	**36748.**	**5770.4**
Stddev	5.6	14.4	294.	83.3
%RSD	.55418	.34058	.79920	1.4436
#1	1002.1	4218.6	36540.	5711.5
#2	1010.0	4239.0	36955.	5829.3

Sample Name: BLANK Acquired: 5/1/2014 17:43:09 Type: Unk
Method: ICAP 2 March 2014(v59) 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	**.00061**	**.01445**	**.00038**	**.00344**	**.00021**	**-.00008**	**.01271**	**.00019**	**-.00092**
Stddev	.00010	.00055	.00232	.00018	.00002	.00000	.00100	.00006	.00000
%RSD	15.707	3.8018	606.29	5.0893	8.7057	3.9892	7.8315	32.906	.12033
#1	.00068	.01406	-.00126	.00356	.00020	-.00008	.01201	.00023	-.00092
#2	.00054	.01484	.00202	.00332	.00022	-.00008	.01341	.00014	-.00092
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	**.00033**	**.00014**	**.00249**	**-.04901**	**-.00107**	**-.00075**	**-.00034**	**.00055**	**.03077**
Stddev	.00029	.00020	.00571	.01339	.00031	.00420	.00002	.00019	.01221
%RSD	87.594	146.67	229.22	27.323	28.815	557.63	6.8632	34.774	39.700
#1	.00053	.00028	.00653	-.05848	-.00129	.00222	-.00033	.00068	.02213
#2	.00012	-.00001	-.00155	-.03954	-.00085	-.00372	-.00036	.00041	.03940
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	**-.00035**	**.00192**	**-.02159**	**.00241**	**.00235**	**-.02202**	**.00028**	**.00001**	**-.00002**
Stddev	.00004	.00023	.00019	.00080	.00112	.02480	.00033	.00011	.00004
%RSD	10.711	11.885	.87726	33.099	47.513	112.63	117.63	1973.7	144.53
#1	-.00032	.00208	-.02172	.00297	.00314	-.03955	.00005	.00009	.00000
#2	-.00037	.00176	-.02145	.00184	.00156	-.00448	.00051	-.00007	-.00005
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	**-.00632**	**.00063**	**.00171**
Stddev	.00013	.00022	.00029
%RSD	2.0868	35.032	16.820
#1	-.00641	.00079	.00151
#2	-.00622	.00047	.00192
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	**1016.3**	**4254.2**	**36950.**	**5833.7**
Stddev	.8	2.6	26.	41.1
%RSD	.07694	.06146	.07078	.70511
#1	1016.8	4252.4	36932.	5804.6
#2	1015.7	4256.1	36969.	5862.8

Sample Name: mb 480-179352/1-a Acquired: 5/1/2014 17:45:57 Type: Unk
Method: ICAP 2 March 2014(v59) 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**	**-.00478**	**-.00221**	**.00172**	**.00026**	**-.00013**	**.02873**	**-.00042**	**-.00024**
Stddev	.00012	.00269	.00041	.00000	.00001	.00002	.00347	.00014	.00016
%RSD	57.254	56.255	18.599	.28184	4.7018	12.752	12.081	32.911	64.959
#1	.00029	-.00288	-.00192	.00172	.00025	-.00012	.03119	-.00051	-.00013
#2	.00012	-.00667	-.00251	.00172	.00027	-.00014	.02628	-.00032	-.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	**.00002**	**-.00033**	F **.06563**	**-.05754**	**.00166**	**.00210**	**.00078**	**-.00049**	**.01413**
Stddev	.00002	.00010	.00470	.00178	.00240	.00617	.00008	.00009	.00250
%RSD	74.663	29.884	7.1683	3.0904	144.32	293.94	10.314	18.703	17.692
#1	.00003	-.00026	.06896	-.05628	.00336	-.00226	.00073	-.00055	.01590
#2	.00001	-.00040	.06230	-.05879	-.00003	.00646	.00084	-.00042	.01236
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			.05000						
Low Limit			-.04000						

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	**-.00048**	**.00365**	**-.01626**	**.00045**	**.00148**	**-.04363**	**-.00075**	**.00019**	**.00043**
Stddev	.00004	.00314	.00176	.00097	.00062	.01117	.00032	.00002	.00011
%RSD	7.9230	86.148	10.845	214.72	41.938	25.609	42.824	9.4486	25.161
#1	-.00045	.00587	-.01501	.00114	.00192	-.03573	-.00052	.00020	.00050
#2	-.00050	.00143	-.01750	-.00023	.00104	-.05153	-.00097	.00018	.00035
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	**.00038**	**.00030**	**.00172**
Stddev	.00090	.00026	.00035
%RSD	238.17	85.813	20.519
#1	-.00026	.00048	.00197
#2	.00101	.00012	.00147
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	**1106.3**	**4952.0**	**41055.**	**6272.2**
Stddev	6.2	22.8	404.	34.6
%RSD	.55798	.45951	.98494	.55154
#1	1110.6	4968.1	41341.	6296.6
#2	1101.9	4935.9	40769.	6247.7

Sample Name: lcs 480-179352/2-a Acquired: 5/1/2014 17:48:46 Type: Unk
Method: ICAP 2 March 2014(v59) 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	**.05132**	**10.091**	**.20609**	**.20087**	**.20942**	**.20482**	**9.8800**	**.19994**	**.19588**
Stddev	.00008	.051	.00267	.00187	.00142	.00097	.0638	.00251	.00218
%RSD	.14984	.50235	1.2935	.92877	.68034	.47587	.64553	1.2551	1.1136
#1	.05127	10.055	.20420	.19955	.20841	.20413	9.8349	.19817	.19433
#2	.05138	10.126	.20797	.20219	.21042	.20551	9.9251	.20171	.19742
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	**.20716**	**.20730**	**9.7655**	**10.058**	**.20652**	**10.660**	**.21267**	**.20102**	**9.9090**
Stddev	.00436	.00340	.0446	.024	.00031	.166	.00425	.00232	.0854
%RSD	2.1050	1.6380	.45715	.23659	.14836	1.5599	1.9970	1.1522	.86141
#1	.20407	.20490	9.7340	10.041	.20630	10.542	.20967	.19938	9.8486
#2	.21024	.20970	9.7971	10.075	.20673	10.777	.21568	.20265	9.9694
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	**.19458**	**.19533**	**9.7122**	**.20192**	**.20549**	**9.7025**	**.18876**	**.19739**	**.20195**
Stddev	.00194	.00273	.1316	.00179	.00383	.0695	.00301	.00132	.00245
%RSD	.99713	1.3963	1.3554	.88779	1.8647	.71599	1.5965	.66629	1.2107
#1	.19321	.19340	9.6191	.20065	.20278	9.6533	.18663	.19646	.20022
#2	.19595	.19725	9.8053	.20318	.20820	9.7516	.19089	.19832	.20368
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	**.19716**	**.20756**	**.21210**
Stddev	.00205	.00360	.00424
%RSD	1.0413	1.7347	1.9983
#1	.19570	.20501	.20911
#2	.19861	.21010	.21510
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	**1028.3**	**4806.0**	**38964.**	**6238.0**
Stddev	8.8	43.9	365.	43.7
%RSD	.86026	.91348	.93715	.70114
#1	1034.5	4837.0	39223.	6268.9
#2	1022.0	4774.9	38706.	6207.1

Sample Name: CCV Acquired: 5/1/2014 17:51:28 Type: QC
Method: ICAP 2 March 2014(v59) 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	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.48690	24.511	.50028	.48833	.49863	.48135	24.044	.49205	.48225	.49261	.49878	23.537	24.761
Stddev	.00191	.102	.00010	.00101	.00506	.00319	.134	.00197	.00125	.00032	.00177	.149	.133
%RSD	.39179	.41526	.01918	.20691	1.0138	.66204	.55573	.39942	.25910	.06588	.35513	.63132	.53615
#1	.48825	24.583	.50021	.48904	.50220	.48361	24.138	.49344	.48313	.49284	.50003	23.642	24.855
#2	.48555	24.439	.50034	.48761	.49505	.47910	23.949	.49066	.48136	.49238	.49752	23.432	24.667
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
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	.51317	24.921	.50816	.50327	24.724	.49318	.48988	23.911	.50783	.49652	24.058	.48515	.48841
Stddev	.00168	.095	.00123	.00124	.144	.00228	.00307	.065	.00092	.00175	.016	.00186	.00309
%RSD	.32808	.38159	.24186	.24725	.58252	.46246	.62633	.27009	.18143	.35253	.06793	.38344	.63267
#1	.51436	24.989	.50903	.50415	24.825	.49479	.49205	23.957	.50848	.49775	24.047	.48646	.49060
#2	.51198	24.854	.50729	.50239	24.622	.49156	.48771	23.865	.50718	.49528	24.070	.48383	.48623
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
Value													
Range													

Elem	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm
Avg	.50156	.48838	.49233	.50459
Stddev	.00306	.00313	.00051	.00027
%RSD	.61038	.64097	.10452	.05412
#1	.50373	.49059	.49269	.50440
#2	.49940	.48616	.49197	.50478
Check ?	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	989.85	4778.8	38670.	6190.8
Stddev	1.74	10.2	49.	22.9
%RSD	.17547	.21415	.12741	.37068
#1	988.62	4771.6	38635.	6174.6
#2	991.08	4786.0	38705.	6207.1

Sample Name: CCB Acquired: 5/1/2014 17:54:08 Type: QC
Method: ICAP 2 March 2014(v59) 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	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00134**	**-.02471**	**-.00219**	**-.00014**	**-.00001**	**.00003**	**.00008**	**-.00040**	**-.00050**	**-.00015**	**-.00020**	**.00450**	**-.02160**
Stddev	.00110	.00723	.00028	.00030	.00002	.00001	.00288	.00003	.00015	.00023	.00036	.00028	.00612
%RSD	82.280	29.259	12.587	221.14	137.30	38.887	3705.2	7.1877	30.279	152.15	184.51	6.1626	28.312
#1	.00056	-.02982	-.00200	.00008	.00000	.00002	.00211	-.00042	-.00061	-.00031	.00006	.00469	-.01728
#2	.00212	-.01960	-.00239	-.00035	-.00003	.00004	-.00196	-.00038	-.00040	.00001	-.00045	.00430	-.02592
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
High Limit													
Low Limit													

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	**.00186**	**.00381**	**-.00003**	**-.00032**	**.02182**	**-.00049**	**.00045**	**-.02066**	**-.00015**	**-.00085**	**-.02185**	**-.00063**	**-.00003**
Stddev	.00050	.00407	.00004	.00016	.01317	.00000	.00063	.00192	.00038	.00421	.00823	.00039	.00004
%RSD	26.734	106.91	137.40	50.749	60.355	1.0217	141.34	9.2821	252.85	492.90	37.650	61.735	123.67
#1	.00221	.00669	.00000	-.00044	.01251	-.00049	.00000	-.02202	.00012	-.00383	-.02767	-.00090	-.00006
#2	.00151	.00093	-.00006	-.00021	.03114	-.00048	.00089	-.01930	-.00041	.00212	-.01604	-.00035	.00000
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
High Limit													
Low Limit													

Elem	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm
Avg	**.00006**	**.00010**	**.00038**	**.00061**
Stddev	.00022	.00039	.00022	.00055
%RSD	361.72	397.00	58.459	89.774
#1	-.00010	-.00018	.00054	.00022
#2	.00022	.00037	.00022	.00100
Check ?	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	**1073.3**	**4841.0**	**39480.**	**6143.9**
Stddev	7.8	13.7	161.	10.0
%RSD	.72254	.28319	.40716	.16199
#1	1078.8	4850.6	39367.	6150.9
#2	1067.8	4831.3	39594.	6136.9

Sample Name: CCVL Acquired: 5/1/2014 17:57:00 Type: QC
Method: ICAP 2 March 2014(v59) 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	**.00564**	**.18721**	**.01341**	**.02032**	**.00242**	**.00197**	**.47524**	**.00183**	**.00365**	**.00409**	**.00982**	**.04749**
Stddev	.00090	.01434	.00005	.00032	.00002	.00001	.00627	.00022	.00024	.00017	.00003	.00235
%RSD	15.902	7.6589	.38842	1.5925	.67006	.38450	1.3199	12.047	6.4873	4.0574	.30654	4.9510
#1	.00628	.19735	.01337	.02009	.00241	.00198	.47967	.00168	.00349	.00420	.00980	.04583
#2	.00501	.17707	.01344	.02055	.00243	.00197	.47080	.00199	.00382	.00397	.00984	.04915
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	**.44525**	**.03205**	**.20494**	**.00300**	**.00983**	**1.0065**	**.00904**	**.01173**	F **-.01094**	**.01950**	**.02257**	**.41801**
Stddev	.02566	.00199	.00048	.00005	.00017	.0157	.00026	.00145	.01415	.00080	.00059	.02594
%RSD	5.7631	6.2112	.23346	1.6068	1.7489	1.5576	2.8484	12.388	129.34	4.0973	2.6008	6.2056
#1	.42711	.03346	.20461	.00303	.00971	1.0175	.00886	.01070	-.02095	.01894	.02215	.39967
#2	.46340	.03064	.20528	.00297	.00995	.99537	.00923	.01276	-.00093	.02007	.02298	.43636
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
Value									.20000			
Range									-50.000%			

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00825**	**.00495**	**.00462**	**.01926**	**.00506**	**.01044**
Stddev	.00010	.00013	.00023	.00117	.00029	.00019
%RSD	1.1661	2.6099	4.8768	6.0885	5.7701	1.8340
#1	.00831	.00504	.00478	.01843	.00486	.01030
#2	.00818	.00486	.00446	.02009	.00527	.01057
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	**1064.7**	**4775.9**	**39333.**	**6152.1**
Stddev	1.4	6.3	111.	19.7
%RSD	.12681	.13156	.28152	.31987
#1	1065.7	4771.5	39255.	6138.2
#2	1063.8	4780.4	39411.	6166.0

Sample Name: 480-58928-a-1-a Acquired: 5/1/2014 17:59:47 Type: Unk
Method: ICAP 2 March 2014(v59) 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**	**.13083**	**.00037**	**1.4471**	**.01166**	**-.00009**	**367.69**	**.00048**	**.00178**
Stddev	.00001	.03446	.00056	.0007	.00006	.00008	4.06	.00011	.00022
%RSD	37.898	26.336	149.27	.05053	.51790	90.971	1.1050	22.523	12.600
#1	.00002	.15520	.00077	1.4466	.01162	-.00003	370.57	.00040	.00194
#2	.00004	.10647	-.00002	1.4476	.01170	-.00015	364.82	.00056	.00162
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	**.00274**	**.03003**	**.09996**	**40.667**	**2.0468**	F **2082.6**	**1.5987**	**.00005**	F **6429.0**
Stddev	.00037	.00051	.00318	.320	.0142	9.9	.0030	.00028	95.4
%RSD	13.504	1.7123	3.1853	.78796	.69235	.47576	.18874	608.20	1.4833
#1	.00248	.02967	.10221	40.894	2.0568	2075.5	1.5965	.00024	6496.4
#2	.00300	.03039	.09771	40.441	2.0368	2089.6	1.6008	-.00015	6361.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Fail
High Limit						450.00			4500.0
Low Limit						-.20000			-1.0000

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	**.06798**	**-.00062**	**3379.1**	**-.00638**	**.50025**	**5.0099**	**-.00297**	**7.1731**	**.00644**
Stddev	.00038	.00061	2.7	.00160	.00215	.0226	.00052	.1251	.00003
%RSD	.56095	98.442	.07973	25.066	.42985	.45054	17.364	1.7435	.42167
#1	.06771	-.00019	3377.2	-.00525	.49873	5.0259	-.00333	7.2615	.00646
#2	.06825	-.00105	3381.0	-.00751	.50177	4.9939	-.00260	7.0847	.00642
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	**-.00524**	**-.00216**	**.02529**
Stddev	.00113	.00029	.00027
%RSD	21.534	13.649	1.0742
#1	-.00444	-.00237	.02509
#2	-.00604	-.00195	.02548
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	**598.03**	**3472.0**	**27723.**	**5552.5**
Stddev	.49	.5	93.	66.8
%RSD	.08164	.01448	.33372	1.2026
#1	598.37	3472.3	27789.	5505.3
#2	597.68	3471.6	27658.	5599.7

Sample Name: 480-58959-d-1-a Acquired: 5/1/2014 18:02:58 Type: Unk
Method: ICAP 2 March 2014(v59) 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	**.00056**	**1.4726**	**.00164**	**.70609**	**.36776**	**-.00008**	**16.264**	**-.00039**	**.00031**
Stddev	.00044	.0364	.00042	.00207	.00191	.00005	.133	.00013	.00012
%RSD	77.999	2.4698	25.718	.29287	.51856	58.604	.81546	32.020	37.205
#1	.00087	1.4983	.00194	.70755	.36910	-.00011	16.357	-.00030	.00039
#2	.00025	1.4468	.00134	.70463	.36641	-.00005	16.170	-.00048	.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	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	**.00362**	**.00783**	**1.5012**	**9.2592**	**.10929**	**7.2685**	**.18574**	**.00569**	**546.64**
Stddev	.00019	.00075	.0082	.0064	.00092	.0331	.00169	.00028	5.60
%RSD	5.3601	9.5155	.54412	.06913	.83792	.45472	.91017	5.0060	1.0243
#1	.00349	.00836	1.5070	9.2547	.10994	7.2919	.18693	.00589	550.60
#2	.00376	.00731	1.4955	9.2638	.10864	7.2451	.18454	.00549	542.68
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	**.00327**	**.00216**	**2.7825**	**-.00082**	**.00016**	**7.1212**	**-.00024**	**.61299**	**.03425**
Stddev	.00005	.00046	.1460	.00019	.00099	.0276	.00002	.00613	.00126
%RSD	1.4245	21.489	5.2473	23.099	612.12	.38730	8.5388	1.0000	3.6712
#1	.00330	.00249	2.8857	-.00069	.00086	7.1407	-.00026	.61732	.03336
#2	.00324	.00183	2.6792	-.00095	-.00054	7.1016	-.00023	.60865	.03513
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**	**.00231**	**.02412**
Stddev	.00114	.00049	.00050
%RSD	790.30	21.347	2.0776
#1	-.00095	.00266	.02448
#2	.00066	.00196	.02377
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	**884.33**	**4472.1**	**35492.**	**6048.8**
Stddev	11.15	8.0	226.	62.2
%RSD	1.2608	.17831	.63767	1.0288
#1	892.21	4477.7	35332.	6004.8
#2	876.44	4466.4	35652.	6092.8

Sample Name: 480-58959-d-2-a Acquired: 5/1/2014 18:05:49 Type: Unk
Method: ICAP 2 March 2014(v59) 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**	**.01651**	**-.00306**	**.00177**	**.00032**	**-.00008**	**.02883**	**-.00033**	**-.00038**
Stddev	.00048	.01999	.00063	.00022	.00002	.00013	.00020	.00002	.00011
%RSD	178.38	121.04	20.733	12.526	4.6809	160.71	.68056	5.8366	28.928
#1	.00061	.00238	-.00351	.00161	.00033	-.00017	.02897	-.00032	-.00046
#2	-.00007	.03065	-.00261	.00192	.00031	.00001	.02869	-.00034	-.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	**-.00012**	**-.00058**	**.00251**	**.05855**	**.00130**	**.00201**	**-.00024**	**-.00054**	**.31224**
Stddev	.00037	.00016	.00386	.04810	.00012	.00738	.00002	.00002	.00927
%RSD	308.07	27.247	154.09	82.146	9.1887	367.68	6.9222	3.4480	2.9701
#1	-.00038	-.00070	.00524	.02454	.00122	.00722	-.00025	-.00053	.31880
#2	.00014	-.00047	-.00022	.09256	.00139	-.00321	-.00023	-.00056	.30569
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**	**-.00002**	**.24787**	**.00013**	**.00034**	**-.04136**	**-.00069**	**.00009**	**-.00006**
Stddev	.00004	.00092	.00895	.00145	.00062	.00799	.00010	.00012	.00019
%RSD	5.1473	5156.0	3.6112	1086.6	184.73	19.307	13.879	124.71	340.09
#1	-.00087	.00063	.25420	.00116	.00077	-.04701	-.00062	.00018	-.00019
#2	-.00081	-.00067	.24154	-.00089	-.00010	-.03572	-.00076	.00001	.00008
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**	**.00037**	**.00235**
Stddev	.00107	.00076	.00044
%RSD	84.441	202.11	18.760
#1	-.00051	-.00016	.00204
#2	-.00203	.00091	.00266
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	**1068.0**	**4766.2**	**39702.**	**6200.3**
Stddev	6.8	26.0	50.	5.7
%RSD	.63405	.54591	.12667	.09271
#1	1072.8	4784.6	39738.	6204.4
#2	1063.2	4747.8	39667.	6196.3

Sample Name: 480-58959-d-2-asd@5 Acquired: 5/1/2014 18:08:37 Type: Unk
Method: ICAP 2 March 2014(v59) 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**	**-.00582**	**-.00284**	**.00040**	**.00046**	**-.00011**	**.01472**	**-.00050**	**-.00037**
Stddev	.00033	.01813	.00278	.00013	.00000	.00005	.00607	.00009	.00015
%RSD	97.462	311.29	97.928	30.976	.08538	43.522	41.240	17.049	41.413
#1	-.00010	-.01865	-.00480	.00049	.00046	-.00007	.01043	-.00056	-.00047
#2	-.00057	.00700	-.00087	.00032	.00046	-.00014	.01901	-.00044	-.00026
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	**.00002**	**.00042**	**-.00006**	**.02387**	**.00089**	**.00635**	**.00030**	**-.00055**	**.18362**
Stddev	.00007	.00048	.00461	.02786	.00014	.00253	.00010	.00007	.00282
%RSD	377.59	113.18	7588.0	116.70	15.863	39.867	32.245	13.465	1.5333
#1	-.00003	.00076	.00320	.04357	.00099	.00814	.00037	-.00050	.18561
#2	.00007	.00008	-.00332	.00417	.00079	.00456	.00023	-.00060	.18163
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**	**.00032**	**.25228**	**-.00061**	**-.00077**	**-.04156**	**-.00130**	**.00024**	**.00039**
Stddev	.00000	.00035	.05702	.00052	.00144	.02251	.00007	.00008	.00056
%RSD	1.2977	111.66	22.600	84.539	186.57	54.177	5.1512	31.402	144.47
#1	-.00038	.00007	.21196	-.00098	-.00180	-.05748	-.00125	.00019	.00078
#2	-.00038	.00057	.29259	-.00025	.00025	-.02564	-.00135	.00030	-.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	**-.00019**	**.00025**	**.00110**
Stddev	.00020	.00001	.00024
%RSD	107.92	5.5180	21.714
#1	-.00004	.00026	.00127
#2	-.00033	.00024	.00093
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	**1064.5**	**4784.8**	**39012.**	**6066.8**
Stddev	.7	16.9	52.	80.6
%RSD	.06613	.35269	.13345	1.3279
#1	1064.0	4772.9	39048.	6009.8
#2	1065.0	4796.7	38975.	6123.8

Sample Name: 480-58959-d-2-a pds Acquired: 5/1/2014 18:11:26 Type: Unk
Method: ICAP 2 March 2014(v59) 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	**.04849**	**10.076**	**.20887**	**.20835**	**.20680**	**.20531**	**9.8966**	**.20342**	**.19939**
Stddev	.00093	.063	.00166	.00182	.00011	.00125	.0445	.00114	.00141
%RSD	1.9257	.62972	.79334	.87266	.05101	.60896	.44983	.55989	.70838
#1	.04783	10.121	.20770	.20964	.20688	.20619	9.9281	.20423	.20039
#2	.04915	10.031	.21004	.20707	.20673	.20443	9.8651	.20262	.19839
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	**.20266**	**.20358**	**9.7295**	**10.101**	**.21011**	**10.419**	**.20966**	**.20444**	**10.086**
Stddev	.00242	.00147	.0023	.049	.00186	.077	.00176	.00148	.173
%RSD	1.1932	.72184	.02400	.48189	.88656	.74302	.84051	.72486	1.7105
#1	.20095	.20254	9.7311	10.135	.21143	10.364	.20842	.20549	10.208
#2	.20437	.20462	9.7278	10.067	.20879	10.473	.21091	.20339	9.9641
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	**.20025**	**.20026**	**.14754**	**.20396**	**.20961**	**10.254**	**.15743**	**.20045**	**.19718**
Stddev	.00178	.00479	.01015	.00029	.00257	.031	.00120	.00399	.00099
%RSD	.89090	2.3942	6.8777	.14199	1.2262	.30196	.76495	1.9925	.50059
#1	.20151	.20365	.15472	.20417	.21143	10.276	.15828	.20327	.19648
#2	.19899	.19687	.14037	.20376	.20780	10.232	.15658	.19762	.19788
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	**.20194**	**.20593**	**.20676**
Stddev	.00148	.00065	.00212
%RSD	.73469	.31381	1.0241
#1	.20299	.20547	.20526
#2	.20090	.20639	.20826
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	**1005.9**	**4716.0**	**38915.**	**6127.8**
Stddev	4.2	24.3	102.	64.0
%RSD	.41675	.51540	.26209	1.0438
#1	1003.0	4698.8	38843.	6082.6
#2	1008.9	4733.2	38987.	6173.0

Sample Name: 480-58959-d-2-b ms Acquired: 5/1/2014 18:14:05 Type: Unk
Method: ICAP 2 March 2014(v59) 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	**.04951**	**9.9475**	**.20560**	**.20078**	**.20467**	**.20183**	**9.8419**	**.19852**	**.19459**
Stddev	.00076	.1301	.00002	.00024	.00036	.00099	.0610	.00012	.00063
%RSD	1.5386	1.3076	.01022	.12038	.17581	.49218	.61946	.05956	.32179
#1	.05004	10.039	.20558	.20095	.20493	.20253	9.8851	.19860	.19503
#2	.04897	9.8555	.20561	.20060	.20442	.20113	9.7988	.19843	.19415
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	**.20089**	**.20142**	**9.5615**	**9.9434**	**.20778**	**10.423**	**.21434**	**.19974**	**9.8461**
Stddev	.00125	.00052	.0476	.0432	.00120	.049	.00142	.00073	.0765
%RSD	.62406	.25857	.49740	.43456	.57904	.47328	.66075	.36703	.77726
#1	.20178	.20178	9.5952	9.9740	.20693	10.458	.21534	.20026	9.9002
#2	.20000	.20105	9.5279	9.9129	.20863	10.389	.21334	.19923	9.7920
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	**.19389**	**.19487**	**10.011**	**.20050**	**.20515**	**9.5253**	**.18865**	**.19551**	**.19534**
Stddev	.00020	.00255	.013	.00012	.00204	.0228	.00059	.00142	.00148
%RSD	.10266	1.3107	.12826	.06202	.99604	.23963	.31318	.72786	.75981
#1	.19403	.19668	10.020	.20059	.20659	9.5415	.18823	.19652	.19639
#2	.19375	.19307	10.002	.20041	.20370	9.5092	.18907	.19450	.19429
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	**.19644**	**.20398**	**.20505**
Stddev	.00096	.00190	.00376
%RSD	.48766	.93261	1.8325
#1	.19711	.20532	.20771
#2	.19576	.20263	.20240
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	**1015.0**	**4749.9**	**38721.**	**6148.6**
Stddev	.1	3.3	101.	57.4
%RSD	.00791	.07027	.26107	.93389
#1	1015.0	4747.5	38649.	6108.0
#2	1015.1	4752.2	38792.	6189.2

Sample Name: 480-58959-d-2-c msd Acquired: 5/1/2014 18:16:44 Type: Unk
Method: ICAP 2 March 2014(v59) 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	**.04861**	**9.5171**	**.20511**	**.19903**	**.20202**	**.19410**	**9.3537**	**.19714**	**.19389**
Stddev	.00140	.5015	.00345	.00237	.00125	.00828	.3922	.00257	.00350
%RSD	2.8880	5.2693	1.6797	1.1927	.61760	4.2643	4.1931	1.3039	1.8059
#1	.04761	9.8717	.20268	.19735	.20114	.19996	9.6310	.19532	.19141
#2	.04960	9.1625	.20755	.20071	.20290	.18825	9.0764	.19896	.19637
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	**.19841**	**.20110**	**9.1747**	**9.6428**	**.20163**	**10.246**	**.20636**	**.19815**	**9.5315**
Stddev	.00011	.00252	.3883	.3821	.00661	.084	.00178	.00277	.4202
%RSD	.05641	1.2522	4.2323	3.9630	3.2770	.81500	.86470	1.3980	4.4084
#1	.19848	.19932	9.4493	9.9130	.20630	10.187	.20510	.19619	9.8286
#2	.19833	.20288	8.9002	9.3726	.19696	10.305	.20762	.20011	9.2344
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	**.19276**	**.19513**	**9.7717**	**.19913**	**.20184**	**9.1409**	**.18596**	**.18848**	**.19484**
Stddev	.00301	.00285	.1074	.00281	.00261	.3472	.00211	.00864	.00163
%RSD	1.5590	1.4629	1.0989	1.4093	1.2915	3.7979	1.1324	4.5819	.83437
#1	.19064	.19311	9.6958	.19714	.20369	9.3863	.18447	.19459	.19369
#2	.19489	.19715	9.8476	.20111	.20000	8.8954	.18745	.18237	.19599
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	**.19424**	**.20049**	**.20410**
Stddev	.00413	.00353	.00232
%RSD	2.1283	1.7614	1.1375
#1	.19132	.19800	.20246
#2	.19716	.20299	.20574
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	**1018.4**	**4788.0**	**39616.**	**6433.4**
Stddev	20.8	71.0	173.	233.3
%RSD	2.0440	1.4830	.43657	3.6268
#1	1033.1	4838.2	39739.	6268.4
#2	1003.7	4737.8	39494.	6598.4

Sample Name: 480-58959-d-3-a Acquired: 5/1/2014 18:19:23 Type: Unk
Method: ICAP 2 March 2014(v59) 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**	**.49686**	**.00023**	**.94526**	**.01060**	**-.00013**	**309.32**	**-.00041**	**-.00009**
Stddev	.0004	.00763	.00043	.00028	.00013	.00003	.22	.00008	.00019
%RSD	68984.	1.5353	188.76	.02936	1.2227	21.062	.06982	20.656	203.73
#1	-.00032	.49146	.00053	.94546	.01051	-.00014	309.47	-.00035	-.00023
#2	.00032	.50225	-.00008	.94507	.01069	-.00011	309.17	-.00047	.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	**.00078**	**.00325**	**1.6806**	**18.509**	**.27315**	**112.78**	**.04173**	**.00117**	**619.27**
Stddev	.00018	.00043	.0122	.031	.00139	.92	.00016	.00032	.53
%RSD	23.256	13.211	.72502	.16744	.50935	.81219	.39265	27.037	.08545
#1	.00090	.00295	1.6720	18.531	.27217	112.13	.04161	.00139	619.64
#2	.00065	.00355	1.6892	18.487	.27413	113.42	.04184	.00095	618.89
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	**.00217**	**-.00014**	**702.37**	**-.00246**	**-.00529**	**6.3006**	**-.00040**	**7.4116**	**.01696**
Stddev	.00071	.00078	.43	.00015	.00280	.0076	.00005	.0748	.00030
%RSD	32.589	552.56	.06080	6.0350	52.931	.12094	13.486	1.0098	1.7721
#1	.00167	.00041	702.67	-.00235	-.00727	6.2953	-.00036	7.4645	.01717
#2	.00267	-.00069	702.07	-.00256	-.00331	6.3060	-.00044	7.3587	.01675
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	**-.00176**	**.00040**	**.01094**
Stddev	.00052	.00023	.00028
%RSD	29.286	57.092	2.5833
#1	-.00213	.00024	.01114
#2	-.00140	.00056	.01074
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	**812.64**	**4202.8**	**34460.**	**5983.5**
Stddev	1.42	7.3	310.	22.8
%RSD	.17447	.17389	.90094	.38106
#1	813.64	4208.0	34680.	5999.6
#2	811.63	4197.6	34241.	5967.3

Sample Name: 480-58959-d-4-a Acquired: 5/1/2014 18:22:20 Type: Unk
Method: ICAP 2 March 2014(v59) 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	**-.00011**	**5.8607**	**.00625**	**.66184**	**.58543**	**.00020**	**8.6242**	**-.00051**	**.00129**
Stddev	.00039	.0554	.00127	.00092	.00023	.00010	.0016	.00009	.00004
%RSD	366.85	.94492	20.397	.13908	.03920	50.631	.01867	17.884	3.2832
#1	.00017	5.8999	.00715	.66119	.58527	.00028	8.6230	-.00045	.00126
#2	-.00039	5.8215	.00535	.66249	.58560	.00013	8.6253	-.00058	.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	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	**.00940**	**.00339**	**3.6846**	**10.856**	**.12842**	**4.2049**	**.05445**	**.01490**	**808.93**
Stddev	.00003	.00032	.0199	.004	.00124	.0292	.00032	.00013	.18
%RSD	.29971	9.4167	.53893	.03563	.96196	.69405	.58552	.90556	.02179
#1	.00938	.00317	3.6986	10.859	.12755	4.1843	.05423	.01480	809.05
#2	.00942	.00362	3.6705	10.853	.12929	4.2255	.05468	.01499	808.80
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	**.00646**	**.00240**	**6.1288**	**-.00329**	**.00160**	**12.208**	**.00017**	**.58030**	**.10012**
Stddev	.00036	.00071	.1313	.00059	.00308	.027	.00059	.00039	.00629
%RSD	5.5070	29.644	2.1420	18.088	192.52	.22259	341.47	.06698	6.2827
#1	.00671	.00290	6.2216	-.00287	-.00058	12.189	-.00025	.58057	.09567
#2	.00621	.00190	6.0359	-.00371	.00377	12.227	.00059	.58002	.10457
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**	**.00944**	**.01152**
Stddev	.00078	.00051	.00033
%RSD	37.624	5.3936	2.8719
#1	-.00153	.00908	.01129
#2	-.00264	.00980	.01176
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	**855.72**	**4404.5**	**34862.**	**6054.8**
Stddev	1.95	4.7	31.	4.2
%RSD	.22744	.10597	.08827	.06877
#1	857.10	4407.8	34883.	6057.8
#2	854.34	4401.2	34840.	6051.9

Sample Name: CCV Acquired: 5/1/2014 18:25:18 Type: QC
Method: ICAP 2 March 2014(v59) 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	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.48354**	**24.249**	**.50355**	**.49333**	**.49758**	**.47574**	**23.588**	**.49738**	**.48902**	**.48717**	**.49488**	**23.014**	**24.518**
Stddev	.00281	.081	.00332	.00107	.00113	.00310	.193	.00421	.00672	.00351	.00284	.231	.308
%RSD	.58125	.33448	.65968	.21655	.22670	.65242	.81924	.84699	1.3748	.72078	.57449	1.0046	1.2559
#1	.48553	24.306	.50120	.49258	.49838	.47794	23.724	.49440	.48427	.48966	.49689	23.178	24.736
#2	.48155	24.191	.50590	.49409	.49679	.47355	23.451	.50036	.49377	.48469	.49287	22.851	24.300
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
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	**.51215**	**24.690**	**.50500**	**.50754**	**24.456**	**.49906**	**.49685**	**24.324**	**.51173**	**.50242**	**23.607**	**.48908**	**.48506**
Stddev	.00101	.095	.00132	.00229	.196	.00390	.00530	.177	.00208	.00081	.082	.00022	.00367
%RSD	.19688	.38608	.26205	.45069	.80317	.78075	1.0677	.72796	.40712	.16181	.34781	.04541	.75670
#1	.51286	24.757	.50407	.50592	24.595	.49631	.49310	24.198	.51025	.50300	23.665	.48892	.48765
#2	.51143	24.622	.50594	.50916	24.317	.50182	.50060	24.449	.51320	.50185	23.549	.48923	.48246
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
Value													
Range													

Elem	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm
Avg	**.49681**	**.49016**	**.48790**	**.49831**
Stddev	.00161	.00035	.00177	.00152
%RSD	.32434	.07189	.36330	.30501
#1	.49795	.48991	.48916	.49938
#2	.49567	.49041	.48665	.49723
Check ?	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	**969.30**	**4699.0**	**38515.**	**6222.1**
Stddev	13.78	44.1	9.	41.0
%RSD	1.4218	.93927	.02310	.65842
#1	979.04	4730.2	38521.	6193.1
#2	959.55	4667.8	38508.	6251.0

Sample Name: CCB Acquired: 5/1/2014 18:27:57 Type: QC
Method: ICAP 2 March 2014(v59) 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**	**-.03199**	**-.00150**	**.00024**	**-.00001**	**-.00013**	**-.00067**	**-.00035**	**-.00038**	**-.00011**	**-.00001**	**.00037**
Stddev	.00063	.05399	.00103	.00016	.00001	.00007	.00133	.00004	.00000	.00011	.00024	.00094
%RSD	271.98	168.79	68.494	68.605	97.316	50.929	197.59	11.329	.37530	101.76	2266.9	255.22
#1	-.00068	.00619	-.00222	.00036	.00000	-.00009	-.00161	-.00038	-.00039	-.00003	-.00018	.00103
#2	.00021	-.07016	-.00077	.00012	-.00001	-.00018	.00027	-.00032	-.00038	-.00019	.00016	-.00029
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	**.04905**	**.00221**	**.00377**	**-.00001**	**-.00006**	**.15745**	**-.00072**	**-.00016**	F **.06922**	**-.00047**	**.00020**	**-.02552**
Stddev	.02524	.00083	.00248	.00000	.00008	.01426	.00011	.00155	.00307	.00011	.00127	.00749
%RSD	51.461	37.754	65.784	15.323	128.29	9.0563	15.472	986.81	4.4319	23.033	647.76	29.361
#1	.06690	.00162	.00552	-.00001	-.00001	.16753	-.00079	-.00126	.07139	-.00039	.00109	-.02022
#2	.03120	.00280	.00202	-.00001	-.00011	.14736	-.00064	.00094	.06705	-.00055	-.00070	-.03082
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit									.05000			
Low Limit									-.05000			

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00086**	**.00001**	**.00025**	**-.00009**	**.00041**	**.00033**
Stddev	.00027	.00003	.00063	.00045	.00043	.00032
%RSD	31.281	409.01	250.81	496.58	104.98	98.673
#1	-.00105	-.00002	.00070	.00023	.00011	.00010
#2	-.00067	.00003	-.00019	-.00041	.00072	.00055
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	**1079.3**	**4804.6**	**39367.**	**6051.6**
Stddev	6.0	16.8	103.	8.2
%RSD	.55631	.34974	.26044	.13544
#1	1075.1	4792.7	39294.	6045.8
#2	1083.5	4816.4	39439.	6057.4

Sample Name: CCVL Acquired: 5/1/2014 18:30:49 Type: QC
Method: ICAP 2 March 2014(v59) 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	.17032	.01355	.01960	.00230	.00191	.46705	.00155	.00345	.00389	.01039	.04316
Stddev	.00027	.03220	.00139	.00039	.00003	.00001	.00622	.00013	.00030	.00004	.00006	.00235
%RSD	4.7128	18.903	10.264	2.0075	1.1884	.73981	1.3328	8.1143	8.5983	.95034	.54674	5.4345
#1	.00583	.19309	.01257	.01988	.00232	.00192	.46265	.00146	.00324	.00387	.01035	.04150
#2	.00546	.14756	.01454	.01932	.00228	.00190	.47146	.00164	.00366	.00392	.01043	.04482
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	.50073	.03166	.19897	.00298	.00944	1.0830	.00878	.00985	F .06437	.01852	.02502	.40418
Stddev	.03566	.00019	.00544	.00006	.00016	.0027	.00000	.00002	.00184	.00073	.00110	.00766
%RSD	7.1222	.59611	2.7318	2.0911	1.6644	.25392	.05670	.15540	2.8601	3.9607	4.3942	1.8963
#1	.52595	.03153	.19513	.00303	.00955	1.0849	.00878	.00984	.06568	.01904	.02580	.40960
#2	.47551	.03180	.20281	.00294	.00933	1.0810	.00877	.00986	.06307	.01800	.02424	.39876
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
Value									.20000			
Range									-50.000%			

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00796	.00480	.00544	.01791	.00497	.01001
Stddev	.00006	.00000	.00041	.00035	.00025	.00054
%RSD	.79078	.05881	7.5414	1.9420	5.0557	5.3637
#1	.00792	.00480	.00573	.01816	.00514	.01039
#2	.00801	.00480	.00515	.01766	.00479	.00963
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	1080.3	4833.9	39781.	6194.9
Stddev	4.5	10.0	126.	5.5
%RSD	.41804	.20613	.31798	.08802
#1	1083.5	4841.0	39692.	6198.8
#2	1077.1	4826.9	39870.	6191.0

Sample Name: 480-58959-d-5-a Acquired: 5/1/2014 18:33:38 Type: Unk
Method: ICAP 2 March 2014(v59) 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**	**1.3674**	**.00037**	**.34181**	**.00929**	**.00075**	**275.14**	**.00081**	**.07818**
Stddev	.00002	.0179	.00007	.00278	.00001	.00000	1.40	.00021	.00021
%RSD	42.906	1.3112	20.086	.81306	.09072	.56041	.51001	26.285	.26265
#1	-.00006	1.3801	.00032	.34378	.00928	.00074	276.13	.00066	.07804
#2	-.00003	1.3547	.00042	.33985	.00930	.00075	274.15	.00096	.07833
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	**.00006**	**.00923**	**5.1062**	**13.797**	**.50510**	**144.06**	**3.8197**	**-.00053**	**371.77**
Stddev	.00073	.00060	.0003	.088	.00142	.53	.0050	.00014	1.25
%RSD	1186.7	6.4991	.00539	.64046	.28128	.37066	.13145	26.108	.33654
#1	.00058	.00965	5.1064	13.860	.50410	144.44	3.8232	-.00043	372.65
#2	-.00046	.00880	5.1060	13.735	.50611	143.69	3.8161	-.00062	370.88
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	**.12509**	**.00359**	**601.24**	**-.00349**	**-.00205**	**10.869**	**-.00057**	**4.2309**	**.00567**
Stddev	.00097	.00031	1.28	.00011	.00138	.044	.00036	.0168	.00104
%RSD	.77361	8.6166	.21339	3.0571	67.479	.40121	63.677	.39664	18.241
#1	.12577	.00381	602.15	-.00342	-.00302	10.900	-.00031	4.2428	.00494
#2	.12440	.00337	600.34	-.00357	-.00107	10.838	-.00082	4.2190	.00641
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	**-.00042**	**-.00021**	**.09109**
Stddev	.00160	.00016	.00056
%RSD	380.42	76.312	.61232
#1	-.00155	-.00009	.09069
#2	.00071	-.00032	.09148
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	**841.53**	**4314.3**	**35026.**	**6068.8**
Stddev	9.48	13.0	28.	35.2
%RSD	1.1260	.30037	.08132	.57981
#1	848.23	4305.1	35005.	6043.9
#2	834.83	4323.4	35046.	6093.7

Sample Name: 480-58959-d-6-a Acquired: 5/1/2014 18:36:26 Type: Unk
Method: ICAP 2 March 2014(v59) 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**	**6.6649**	**.00044**	**.69159**	**.12174**	**.00016**	**17.667**	**-.00033**	**.00178**
Stddev	.00099	.0696	.00214	.01188	.00005	.00019	.099	.00006	.00023
%RSD	578.95	1.0438	489.11	1.7176	.03935	120.05	.56273	19.076	13.107
#1	-.00087	6.7141	-.00107	.69999	.12171	.00002	17.737	-.00028	.00195
#2	.00053	6.6157	.00195	.68319	.12178	.00030	17.596	-.00037	.00162
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	**.00897**	**.00855**	**3.7606**	**7.6275**	**.06180**	**6.2458**	**.10279**	**.00784**	**162.53**
Stddev	.00062	.00018	.0001	.0676	.00016	.1139	.00352	.00017	1.30
%RSD	6.9356	2.0969	.00349	.88588	.26560	1.8242	3.4251	2.2175	.79733
#1	.00941	.00867	3.7605	7.5797	.06168	6.3264	.10528	.00796	163.45
#2	.00853	.00842	3.7607	7.6753	.06191	6.1653	.10030	.00771	161.61
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**	**.00306**	**46.063**	**-.00162**	**.00099**	**14.914**	**-.00019**	**.51266**	**.08759**
Stddev	.00030	.00091	.524	.00018	.00039	.061	.00001	.00152	.00671
%RSD	4.5053	29.677	1.1379	11.373	39.810	.40582	4.3666	.29638	7.6599
#1	.00685	.00242	46.433	-.00175	.00127	14.957	-.00020	.51373	.09234
#2	.00643	.00371	45.692	-.00149	.00071	14.872	-.00018	.51158	.08285
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	**-.00099**	**.00906**	**.02288**
Stddev	.00033	.00010	.00107
%RSD	32.883	1.0545	4.6587
#1	-.00076	.00900	.02213
#2	-.00122	.00913	.02364
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	**946.03**	**4626.2**	**37268.**	**6110.9**
Stddev	2.35	51.3	185.	47.6
%RSD	.24875	1.1085	.49753	.77870
#1	944.37	4590.0	37399.	6077.2
#2	947.70	4662.5	37137.	6144.5

Sample Name: 480-58959-d-7-a Acquired: 5/1/2014 18:39:09 Type: Unk
Method: ICAP 2 March 2014(v59) 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	**-.00045**	**4.9863**	**.00047**	**.76476**	**.33074**	**.00018**	**16.959**	**-.00017**	**.00186**
Stddev	.00029	.0585	.00005	.00051	.00016	.00007	.109	.00014	.00005
%RSD	64.977	1.1737	10.603	.06621	.04772	36.907	.64032	80.243	2.9038
#1	-.00024	5.0277	.00044	.76512	.33062	.00022	17.036	-.00027	.00182
#2	-.00066	4.9449	.00051	.76440	.33085	.00013	16.882	-.00008	.00189
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	**.00856**	**.00425**	**3.5819**	**11.334**	**.08914**	**8.7761**	**.13595**	**.00083**	**224.72**
Stddev	.00057	.00024	.0124	.051	.00156	.0112	.00006	.00024	2.18
%RSD	6.6997	5.6542	.34757	.44998	1.7499	.12753	.04550	29.140	.97145
#1	.00816	.00442	3.5907	11.370	.09024	8.7840	.13599	.00100	226.26
#2	.00897	.00408	3.5731	11.298	.08804	8.7682	.13591	.00066	223.17
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**	**.00269**	**12.366**	**-.00045**	**.00030**	**12.584**	**-.00057**	**1.0263**	**.11679**
Stddev	.00047	.00217	.037	.00075	.00189	.076	.00021	.0070	.00523
%RSD	8.9125	80.505	.30050	168.69	631.78	.60199	37.254	.68691	4.4767
#1	.00561	.00116	12.392	-.00098	.00164	12.637	-.00042	1.0313	.12049
#2	.00495	.00422	12.340	.00009	-.00104	12.530	-.00072	1.0213	.11309
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**	**.00830**	**.02165**
Stddev	.00128	.00009	.00021
%RSD	1974.4	1.1429	.95425
#1	.00084	.00837	.02179
#2	-.00097	.00823	.02150
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	**930.73**	**4551.5**	**36826.**	**6085.4**
Stddev	2.38	.6	72.	46.0
%RSD	.25615	.01241	.19560	.75513
#1	929.04	4551.9	36877.	6053.0
#2	932.41	4551.1	36775.	6117.9

Sample Name: 480-58959-d-8-a Acquired: 5/1/2014 18:41:58 Type: Unk
Method: ICAP 2 March 2014(v59) 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**	**5.3898**	**.00125**	**.71196**	**.03062**	**.00016**	**121.96**	**-.00035**	**.00271**
Stddev	.00022	.0277	.00246	.00768	.00007	.00004	1.03	.00000	.00020
%RSD	338.38	.51405	197.20	1.0789	.23675	22.873	.84647	1.0697	7.4042
#1	-.00009	5.3702	-.00049	.71739	.03067	.00018	121.23	-.00035	.00285
#2	.00022	5.4094	.00298	.70653	.03057	.00013	122.69	-.00035	.00256
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	**.00918**	**.00847**	**5.7533**	**11.266**	**.10811**	**38.436**	**.25926**	**.00039**	**146.55**
Stddev	.00004	.00010	.0474	.084	.00123	.071	.00046	.00017	1.32
%RSD	.47243	1.1615	.82403	.74814	1.1355	.18454	.17673	44.166	.89844
#1	.00915	.00854	5.7198	11.206	.10724	38.486	.25894	.00027	145.62
#2	.00921	.00840	5.7868	11.325	.10898	38.386	.25959	.00051	147.48
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	**.00705**	**.00217**	**190.11**	**-.00198**	**-.00085**	**12.378**	**-.00012**	**2.7189**	**.16507**
Stddev	.00002	.00158	1.20	.00038	.00238	.035	.00025	.0232	.00145
%RSD	.31414	72.776	.63248	19.369	279.25	.28264	212.00	.85467	.87632
#1	.00706	.00329	190.96	-.00171	.00083	12.353	-.00030	2.7024	.16404
#2	.00703	.00106	189.26	-.00226	-.00254	12.402	.00006	2.7353	.16609
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	**-.00145**	**.00801**	**.01826**
Stddev	.00018	.00039	.00068
%RSD	12.572	4.8132	3.7155
#1	-.00158	.00774	.01874
#2	-.00132	.00828	.01778
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	**922.28**	**4540.2**	**36548.**	**6149.1**
Stddev	5.46	17.3	8.	56.6
%RSD	.59158	.38125	.02302	.92112
#1	926.13	4527.9	36542.	6189.2
#2	918.42	4552.4	36554.	6109.1

Sample Name: 480-58959-d-9-a Acquired: 5/1/2014 18:44:42 Type: Unk
Method: ICAP 2 March 2014(v59) 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**	**.47319**	**-.00196**	**.46633**	**.01735**	**-.00013**	**19.932**	**-.00045**	**-.00033**
Stddev	.00062	.02774	.00255	.00057	.00001	.00014	.133	.00010	.00010
%RSD	848.84	5.8624	129.93	.12121	.03711	105.67	.66701	21.819	31.654
#1	-.00036	.49281	-.00376	.46673	.01735	-.00003	19.838	-.00038	-.00026
#2	.00051	.45358	-.00016	.46593	.01734	-.00024	20.026	-.00052	-.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	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	**.00010**	**.00169**	**.51251**	**7.1673**	**.08352**	**8.1061**	**.00965**	**-.00033**	**207.29**
Stddev	.00016	.00058	.00776	.0096	.00018	.0066	.00000	.00022	1.15
%RSD	156.84	34.410	1.5149	.13447	.22133	.08190	.00016	67.426	.55686
#1	.00021	.00128	.51800	7.1605	.08365	8.1108	.00965	-.00048	206.48
#2	-.00001	.00210	.50702	7.1741	.08339	8.1015	.00965	-.00017	208.11
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	**.00054**	**.00005**	**71.074**	**-.00229**	**-.00139**	**5.2266**	**-.00048**	**.61300**	**.00966**
Stddev	.00004	.00083	.051	.00013	.00372	.0094	.00015	.00429	.00093
%RSD	7.6038	1630.5	.07245	5.4971	267.79	.17995	31.507	.69911	9.6666
#1	.00057	.00064	71.110	-.00220	-.00402	5.2333	-.00058	.60997	.01032
#2	.00051	-.00054	71.037	-.00238	.00124	5.2200	-.00037	.61603	.00900
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	**-.00065**	**.00127**	**.00497**
Stddev	.00099	.00045	.00027
%RSD	151.54	35.322	5.4719
#1	.00005	.00158	.00478
#2	-.00135	.00095	.00516
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	**937.64**	**4536.6**	**36765.**	**6025.6**
Stddev	2.40	2.8	76.	16.0
%RSD	.25568	.06279	.20753	.26632
#1	935.94	4534.6	36819.	6036.9
#2	939.33	4538.6	36711.	6014.2

Sample Name: 480-58959-d-10-a Acquired: 5/1/2014 18:47:33 Type: Unk
Method: ICAP 2 March 2014(v59) 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**	**2.4315**	**.00242**	**.42926**	**.04024**	**-.00001**	**163.44**	**-.00015**	**.02915**
Stddev	.00097	.0750	.00065	.00712	.00020	.00010	1.54	.00006	.00054
%RSD	1187.8	3.0829	26.937	1.6595	.50516	721.19	.94185	37.254	1.8383
#1	.00061	2.4845	.00196	.42422	.04038	-.00008	164.53	-.00011	.02877
#2	-.00077	2.3785	.00288	.43430	.04010	.00005	162.35	-.00019	.02953
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	**.00280**	**.00597**	**10.329**	**12.352**	**.17307**	**93.746**	**6.7138**	**.00686**	**539.22**
Stddev	.00001	.00033	.071	.334	.00085	.129	.0262	.00020	5.01
%RSD	.49967	5.6058	.69158	2.7034	.49125	.13736	.38987	2.9484	.92900
#1	.00281	.00573	10.380	12.588	.17247	93.837	6.7323	.00672	542.76
#2	.00279	.00620	10.279	12.116	.17367	93.655	6.6953	.00701	535.68
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	**.02706**	**.00111**	**447.82**	**-.00251**	**.00030**	**12.898**	**-.00056**	**1.7707**	**.07982**
Stddev	.00002	.00027	7.26	.00180	.00227	.115	.00002	.0185	.00789
%RSD	.07378	24.490	1.6216	71.727	756.63	.89107	4.1421	1.0446	9.8784
#1	.02708	.00130	442.69	-.00379	.00191	12.980	-.00058	1.7838	.07425
#2	.02705	.00091	452.96	-.00124	-.00131	12.817	-.00054	1.7576	.08540
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	**.00283**	**.00240**	**.01781**
Stddev	.00125	.00030	.00003
%RSD	44.034	12.621	.18345
#1	.00195	.00261	.01783
#2	.00371	.00218	.01778
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	**851.53**	**4328.7**	**35042.**	**6074.3**
Stddev	12.51	61.9	55.	90.4
%RSD	1.4686	1.4298	.15751	1.4889
#1	860.37	4372.4	35003.	6010.3
#2	842.68	4284.9	35082.	6138.3

Sample Name: 480-58959-d-11-a Acquired: 5/1/2014 18:50:28 Type: Unk
Method: ICAP 2 March 2014(v59) 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**	**.20413**	**-.00085**	**.57525**	**.02021**	**-.00014**	**49.558**	**-.00046**	**.00044**
Stddev	.00023	.01535	.00079	.00291	.00002	.00005	.703	.00006	.00019
%RSD	145.46	7.5188	93.636	.50587	.08056	32.020	1.4184	12.698	44.496
#1	.00000	.21498	-.00141	.57320	.02020	-.00017	50.055	-.00042	.00030
#2	-.00032	.19327	-.00029	.57731	.02023	-.00011	49.061	-.00050	.00057
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	**.00062**	**.00286**	**.92665**	**12.532**	**.22673**	**30.020**	**.55524**	**-.00014**	**947.88**
Stddev	.00018	.00051	.01303	.301	.00130	.101	.00265	.00007	14.57
%RSD	28.219	17.684	1.4064	2.4017	.57383	.33615	.47641	53.100	1.5371
#1	.00074	.00250	.91743	12.745	.22765	30.091	.55711	-.00009	958.18
#2	.00050	.00322	.93587	12.319	.22581	29.949	.55337	-.00019	937.58
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	**.00208**	**-.00007**	**296.00**	**-.00367**	**-.00274**	**8.3300**	**-.00031**	**1.4684**	**.00308**
Stddev	.00015	.00017	.99	.00042	.00021	.0459	.00001	.0224	.00009
%RSD	7.2614	248.72	.33296	11.343	7.5875	.55090	3.0404	1.5252	2.9135
#1	.00218	-.00019	295.30	-.00396	-.00289	8.3625	-.00031	1.4842	.00314
#2	.00197	.00005	296.70	-.00337	-.00260	8.2976	-.00032	1.4526	.00302
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**	**.00041**	**.00673**
Stddev	.00071	.00040	.00096
%RSD	48.913	95.872	14.288
#1	-.00194	.00069	.00741
#2	-.00094	.00013	.00605
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	**833.06**	**4286.3**	**34368.**	**5873.6**
Stddev	8.34	15.6	62.	76.7
%RSD	1.0014	.36450	.18127	1.3055
#1	838.96	4297.4	34324.	5819.3
#2	827.16	4275.3	34412.	5927.8

Sample Name: 480-58959-d-12-a Acquired: 5/1/2014 18:53:20 Type: Unk
Method: ICAP 2 March 2014(v59) 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**	**2.2338**	**-.00039**	**.71649**	**.38259**	**.00013**	**16.504**	**-.00030**	**.00114**
Stddev	.00022	.0043	.00166	.00364	.00016	.00014	.035	.00010	.00009
%RSD	56.675	.19483	427.93	.50793	.04102	102.16	.21350	34.300	7.6921
#1	-.00055	2.2369	.00078	.71907	.38270	.00023	16.529	-.00037	.00120
#2	-.00023	2.2308	-.00156	.71392	.38248	.00004	16.479	-.00023	.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	**.00430**	**.00707**	**2.0649**	**9.2625**	**.10837**	**6.7896**	**.24805**	**.00723**	**548.28**
Stddev	.00048	.00046	.0098	.0151	.00261	.0117	.00038	.00015	1.49
%RSD	11.252	6.5642	.47525	.16289	2.4112	.17266	.15141	2.0863	.27137
#1	.00464	.00674	2.0580	9.2732	.10652	6.7979	.24778	.00733	549.33
#2	.00396	.00740	2.0719	9.2518	.11022	6.7813	.24831	.00712	547.23
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	**.00451**	**.00125**	**3.1415**	**-.00178**	**.00236**	**8.2047**	**-.00039**	**.61864**	**.03644**
Stddev	.00055	.00077	.0338	.00061	.00051	.0900	.00015	.00277	.00119
%RSD	12.121	61.458	1.0766	34.365	21.711	1.0965	38.688	.44823	3.2597
#1	.00412	.00071	3.1654	-.00221	.00273	8.1411	-.00049	.62060	.03728
#2	.00489	.00179	3.1176	-.00135	.00200	8.2683	-.00028	.61668	.03560
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	**-.00194**	**.00371**	**.01850**
Stddev	.00023	.00050	.00033
%RSD	12.054	13.509	1.7624
#1	-.00177	.00336	.01873
#2	-.00211	.00407	.01827
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	**871.00**	**4419.5**	**35094.**	**5943.6**
Stddev	7.09	9.3	42.	14.0
%RSD	.81343	.21099	.12090	.23507
#1	876.01	4412.9	35064.	5953.5
#2	865.99	4426.0	35124.	5933.7

Sample Name: 480-58959-d-13-a Acquired: 5/1/2014 18:56:11 Type: Unk
Method: ICAP 2 March 2014(v59) 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**	**17.837**	**.00095**	**.86715**	**.09639**	**.00110**	**38.041**	**-.00011**	**.01758**
Stddev	.00037	.136	.00250	.00156	.00032	.00002	.350	.00002	.00008
%RSD	277.90	.76010	264.16	.18015	.33076	1.3981	.92103	16.698	.43347
#1	.00013	17.933	.00271	.86825	.09661	.00111	38.289	-.00012	.01764
#2	-.00039	17.741	-.00082	.86604	.09616	.00109	37.793	-.00009	.01753
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	**.03001**	**.01395**	**13.323**	**15.070**	**.12857**	**16.036**	**.87442**	**.00137**	**273.59**
Stddev	.00018	.00054	.132	.095	.00070	.045	.00322	.00024	2.02
%RSD	.60415	3.8482	.98926	.63158	.54153	.28294	.36780	17.320	.73717
#1	.02988	.01433	13.417	15.138	.12808	16.004	.87215	.00154	275.02
#2	.03013	.01357	13.230	15.003	.12907	16.068	.87670	.00120	272.17
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	**.03337**	**.01052**	**128.26**	**-.00303**	**.00019**	**28.293**	**.00062**	**1.2667**	**.15296**
Stddev	.00037	.00034	.34	.00102	.00138	.047	.00034	.0085	.00646
%RSD	1.1083	3.1963	.26333	33.533	746.67	.16635	55.528	.66972	4.2259
#1	.03363	.01028	128.50	-.00375	.00116	28.326	.00038	1.2727	.15753
#2	.03311	.01076	128.02	-.00231	-.00079	28.259	.00086	1.2607	.14839
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	**-.00003**	**.02994**	**.03459**
Stddev	.00091	.00008	.00064
%RSD	2823.4	.26842	1.8473
#1	.00061	.02988	.03414
#2	-.00068	.02999	.03504
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	**905.84**	**4541.6**	**36716.**	**6162.9**
Stddev	.22	4.5	117.	77.6
%RSD	.02384	.09822	.31916	1.2592
#1	905.69	4538.4	36799.	6108.0
#2	905.99	4544.7	36633.	6217.7

Sample Name: CCV Acquired: 5/1/2014 18:59:15 Type: QC
Method: ICAP 2 March 2014(v59) 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	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.49902**	**24.967**	**.51767**	**.51017**	**.51165**	**.49287**	**24.429**	**.51010**	**.50007**	**.50435**	**.51325**	**23.875**	**25.459**
Stddev	.00118	.117	.00126	.00043	.00136	.00159	.102	.00027	.00017	.00145	.00078	.019	.108
%RSD	.23708	.47011	.24401	.08349	.26672	.32286	.41776	.05209	.03451	.28847	.15264	.08127	.42542
#1	.49986	24.884	.51677	.51047	.51069	.49174	24.357	.51028	.50019	.50538	.51380	23.861	25.383
#2	.49819	25.050	.51856	.50986	.51262	.49399	24.501	.50991	.49995	.50333	.51269	23.889	25.536
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
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	**.53270**	**25.596**	**.52445**	**.52299**	**25.532**	**.51242**	**.50552**	**24.926**	**.52805**	**.51212**	**24.358**	**.50156**	**.50389**
Stddev	.00133	.092	.00130	.00047	.090	.00040	.00070	.029	.00084	.00345	.033	.00219	.00079
%RSD	.24908	.35830	.24853	.08960	.35088	.07870	.13761	.11630	.15925	.67383	.13380	.43598	.15766
#1	.53177	25.661	.52538	.52332	25.469	.51271	.50601	24.946	.52865	.51456	24.335	.50311	.50333
#2	.53364	25.531	.52353	.52265	25.595	.51214	.50503	24.905	.52746	.50968	24.381	.50001	.50445
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
Value													
Range													

Elem	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm
Avg	**.51412**	**.50417**	**.50520**	**.51969**
Stddev	.00057	.00001	.00239	.00490
%RSD	.11031	.00192	.47359	.94258
#1	.51452	.50417	.50689	.52315
#2	.51372	.50416	.50351	.51623
Check ?	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	**964.62**	**4661.4**	**37845.**	**6040.9**
Stddev	.82	.6	17.	14.8
%RSD	.08533	.01320	.04381	.24512
#1	965.20	4661.8	37833.	6051.3
#2	964.04	4661.0	37857.	6030.4

Sample Name: CCB Acquired: 5/1/2014 19:01:50 Type: QC
Method: ICAP 2 March 2014(v59) 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	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00033	.00782	.00003	.00056	.00001	-.00018	.00049	-.00057	-.00038	-.00054	-.00021	-.00027	.00727
Stddev	.00019	.00289	.00024	.00001	.00003	.00012	.00327	.00007	.00014	.00003	.00007	.00161	.02036
%RSD	57.902	37.027	829.12	1.0790	587.53	67.441	663.82	12.009	37.356	6.4145	31.637	590.62	280.28
#1	.00020	.00577	.00020	.00056	.00003	-.00009	.00280	-.00052	-.00048	-.00052	-.00026	-.00141	.02166
#2	.00047	.00986	-.00014	.00055	-.00002	-.00027	-.00182	-.00062	-.00028	-.00057	-.00017	.00086	-.00713
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
High Limit													
Low Limit													

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	.00290	.00286	.00002	-.00023	.14210	-.00065	.00107	.03669	-.00054	.00187	-.02671	-.00104	.00000
Stddev	.00031	.00312	.00007	.00002	.00138	.00012	.00242	.00326	.00049	.00179	.01226	.00014	.0000
%RSD	10.640	109.05	338.35	7.8953	.97263	18.138	225.52	8.8738	91.180	95.306	45.891	13.159	533.33
#1	.00312	.00066	.00007	-.00022	.14113	-.00074	.00279	.03899	-.00088	.00061	-.01804	-.00114	.00001
#2	.00268	.00507	-.00003	-.00024	.14308	-.00057	-.00064	.03438	-.00019	.00314	-.03538	-.00095	-.00002
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
High Limit													
Low Limit													

Elem	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm
Avg	.00038	-.00025	.00035	.00030
Stddev	.00014	.00090	.00002	.00020
%RSD	37.253	363.93	4.2828	68.584
#1	.00028	.00039	.00036	.00044
#2	.00048	-.00088	.00034	.00015
Check ?	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	1079.7	4803.6	39638.	6119.2
Stddev	1.1	4.1	89.	31.8
%RSD	.10068	.08574	.22472	.52018
#1	1078.9	4800.7	39575.	6096.7
#2	1080.4	4806.6	39701.	6141.7

Sample Name: CCVL Acquired: 5/1/2014 19:04:35 Type: QC
Method: ICAP 2 March 2014(v59) 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	**.00592**	**.18790**	**.01352**	**.02029**	**.00235**	**.00177**	**.45997**	**.00148**	**.00343**	**.00354**	**.00993**	**.04399**
Stddev	.00008	.02226	.00017	.00013	.00000	.00008	.00391	.00009	.00011	.00034	.00065	.00644
%RSD	1.2971	11.845	1.2611	.64354	.08604	4.7715	.84994	5.8295	3.2542	9.7041	6.5341	14.631
#1	.00597	.17216	.01364	.02020	.00235	.00183	.45721	.00142	.00351	.00378	.00947	.03944
#2	.00586	.20364	.01340	.02039	.00235	.00171	.46274	.00154	.00335	.00329	.01039	.04854
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	**.49912**	**.03165**	**.20144**	**.00305**	**.00951**	**1.1008**	**.00839**	**.00921**	F **.03761**	**.01852**	**.02295**	**.42589**
Stddev	.00103	.00085	.00284	.00001	.00004	.0012	.00009	.00035	.00240	.00058	.00106	.00779
%RSD	.20551	2.6963	1.4088	.23661	.46495	.10468	1.0502	3.7570	6.3845	3.1077	4.6024	1.8281
#1	.49840	.03225	.20344	.00304	.00948	1.1016	.00845	.00896	.03931	.01893	.02220	.42038
#2	.49985	.03105	.19943	.00305	.00954	1.1000	.00832	.00945	.03591	.01811	.02370	.43139
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
Value									.20000			
Range									-50.000%			

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00785**	**.00493**	**.00466**	**.01810**	**.00531**	**.00978**
Stddev	.00021	.00005	.00014	.00114	.00024	.00038
%RSD	2.7094	.95978	2.9663	6.3238	4.4693	3.8606
#1	.00770	.00490	.00456	.01729	.00548	.00952
#2	.00800	.00497	.00475	.01891	.00515	.01005
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	**1076.1**	**4811.9**	**39696.**	**6174.6**
Stddev	5.2	6.3	23.	45.1
%RSD	.48055	.12991	.05912	.73068
#1	1072.5	4807.5	39712.	6142.7
#2	1079.8	4816.3	39679.	6206.5

Sample Name: 480-58959-d-15-a Acquired: 5/1/2014 19:07:20 Type: Unk
Method: ICAP 2 March 2014(v59) 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**	**.01913**	**.00576**	**.25254**	**.01342**	**-.00009**	**372.40**	**-.00023**	**.03222**
Stddev	.00002	.00947	.00181	.00017	.00003	.00007	2.21	.00012	.00006
%RSD	6.0860	49.512	31.480	.06799	.21002	79.828	.59418	50.500	.17114
#1	-.00033	.01243	.00448	.25266	.01344	-.00013	373.96	-.00031	.03218
#2	-.00031	.02583	.00705	.25242	.01340	-.00004	370.84	-.00015	.03226
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	**-.00049**	**.00155**	**8.1878**	**11.788**	**.20487**	**215.71**	**13.513**	**-.00081**	**104.48**
Stddev	.00010	.00029	.0363	.013	.00030	.31	.048	.00017	.03
%RSD	20.796	18.767	.44364	.11113	.14598	.14376	.35202	20.949	.02514
#1	-.00042	.00176	8.1621	11.798	.20509	215.49	13.547	-.00069	104.46
#2	-.00057	.00135	8.2135	11.779	.20466	215.93	13.480	-.00093	104.49
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	**.05125**	**-.00186**	**544.58**	**-.00289**	**-.00358**	**5.5087**	**-.00098**	**2.1387**	**.00297**
Stddev	.00076	.00016	.11	.00006	.00109	.0158	.00034	.0073	.00057
%RSD	1.4890	8.7866	.02054	1.9623	30.554	.28667	34.683	.34383	19.373
#1	.05071	-.00174	544.51	-.00285	-.00435	5.4975	-.00122	2.1439	.00256
#2	.05179	-.00197	544.66	-.00293	-.00280	5.5199	-.00074	2.1335	.00337
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	**.00601**	**-.00189**	**.01436**
Stddev	.00125	.00039	.00045
%RSD	20.845	20.664	3.1037
#1	.00513	-.00216	.01467
#2	.00690	-.00161	.01404
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	**853.24**	**4223.7**	**35033.**	**5954.5**
Stddev	4.73	6.7	72.	51.7
%RSD	.55407	.15837	.20639	.86787
#1	856.59	4228.4	34982.	5917.9
#2	849.90	4218.9	35084.	5991.0

Sample Name: BLank Acquired: 5/1/2014 19:10:06 Type: Unk
Method: ICAP 2 March 2014(v59) 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**	**-.03245**	**-.00235**	**-.00056**	**.00029**	**-.00008**	**.00484**	**-.00049**	**-.00038**
Stddev	.00120	.01339	.00045	.00017	.00001	.00006	.00321	.00001	.00004
%RSD	321.15	41.262	19.021	30.007	3.1339	83.459	66.367	2.3849	9.9386
#1	.00047	-.04191	-.00203	-.00044	.00028	-.00003	.00711	-.00050	-.00035
#2	-.00122	-.02298	-.00266	-.00068	.00029	-.00012	.00257	-.00048	-.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	**-.00033**	**-.00001**	**.00179**	**-.01272**	**.00187**	**.00904**	**.00035**	**-.00051**	**.12681**
Stddev	.00041	.00019	.00020	.00335	.00057	.00254	.00031	.00003	.00223
%RSD	121.06	1423.0	11.015	26.347	30.667	28.116	88.559	5.7204	1.7581
#1	-.00062	-.00015	.00165	-.01508	.00227	.01084	.00057	-.00049	.12839
#2	-.00005	.00012	.00193	-.01035	.00146	.00724	.00013	-.00053	.12523
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	**-.00050**	**-.00094**	**.05280**	**-.00074**	**.00012**	**-.05248**	**-.00088**	**.00003**	**.00031**
Stddev	.00001	.00044	.00457	.00143	.00044	.00684	.00013	.00003	.00025
%RSD	2.3927	46.425	8.6511	193.05	372.92	13.040	14.432	109.36	82.203
#1	-.00051	-.00125	.05604	-.00175	-.00020	-.05732	-.00097	.00005	.00013
#2	-.00049	-.00063	.04957	.00027	.00043	-.04764	-.00079	.00001	.00049
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	**-.00068**	**.00070**	**.00005**
Stddev	.00103	.00044	.00015
%RSD	150.25	62.650	280.45
#1	.00004	.00101	-.00005
#2	-.00141	.00039	.00016
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	**1070.4**	**4773.2**	**39184.**	**6103.6**
Stddev	3.5	11.5	89.	34.9
%RSD	.32742	.24189	.22619	.57257
#1	1072.9	4765.1	39122.	6078.9
#2	1068.0	4781.4	39247.	6128.3

Sample Name: MB 480-179271/1-A Acquired: 5/1/2014 19:12:51 Type: Unk
Method: ICAP 2 March 2014(v59) 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**	**-.00376**	**-.00136**	**-.00054**	**.00020**	**-.00017**	**.00869**	**-.00057**	**-.00047**
Stddev	.00064	.04573	.00005	.00000	.00001	.00001	.00035	.00009	.00003
%RSD	667.07	1215.6	3.5684	.87738	5.3061	5.2637	4.0223	15.314	6.6123
#1	.00036	.02857	-.00139	-.00054	.00021	-.00017	.00894	-.00051	-.00045
#2	-.00055	-.03610	-.00132	-.00054	.00020	-.00018	.00845	-.00063	-.00049
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**	**.00033**	**-.00017**	**-.01477**	**.00193**	**.00574**	**.00144**	**-.00031**	**.12162**
Stddev	.00027	.00029	.00319	.00312	.00099	.00375	.00057	.00001	.01511
%RSD	76.973	88.031	1863.5	21.138	51.238	65.345	39.179	2.9627	12.427
#1	-.00053	.00012	-.00243	-.01256	.00263	.00309	.00104	-.00032	.11093
#2	-.00016	.00054	.00208	-.01698	.00123	.00839	.00185	-.00031	.13231
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**	**.00033**	**.06350**	**.00021**	**-.00127**	**-.05427**	**-.00125**	**.00006**	**.00018**
Stddev	.00035	.00106	.02760	.00120	.00009	.00887	.00042	.00004	.00039
%RSD	150.42	325.17	43.464	582.34	7.0353	16.352	33.316	59.335	217.55
#1	.00001	-.00042	.04398	.00105	-.00121	-.04799	-.00096	.00009	-.00010
#2	-.00047	.00108	.08302	-.00064	-.00133	-.06054	-.00155	.00004	.00046
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	**-.00044**	**.00000**	**.00118**
Stddev	.00045	.00063	.00048
%RSD	100.81	17269.	40.565
#1	-.00013	.00045	.00084
#2	-.00076	-.00044	.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	**1059.1**	**4767.8**	**39830.**	**6187.6**
Stddev	6.9	4.9	32.	73.5
%RSD	.65067	.10375	.08097	1.1882
#1	1064.0	4764.3	39807.	6135.6
#2	1054.2	4771.3	39853.	6239.6

Sample Name: LCS 480-179271/2-A Acquired: 5/1/2014 19:15:37 Type: Unk
Method: ICAP 2 March 2014(v59) 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	F **.04965**	F **9.9361**	F **.20618**	F **.20377**	F **.20770**	F **.20354**	F **9.7576**	F **.20134**	F **.19682**
Stddev	.00003	.1168	.00361	.00256	.00094	.00162	.0806	.00282	.00293
%RSD	.05898	1.1752	1.7499	1.2550	.45131	.79516	.82587	1.4017	1.4864
#1	.04967	10.019	.20363	.20197	.20837	.20468	9.8146	.19935	.19475
#2	.04963	9.8536	.20873	.20558	.20704	.20239	9.7006	.20334	.19889
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail
High Limit	.00300	.20000	.01000	.02000	.00200	.00200	.50000	.00100	.00400
Low Limit	-.00300	-.04000	-.00500	-.00800	-.00300	-.00310	-.05000	-.00100	-.00300

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	F **.20372**	F **.20665**	F **9.5776**	F **10.095**	F **.21154**	F **10.522**	F **.21198**	F **.20297**	F **10.042**
Stddev	.00099	.00015	.0807	.011	.00052	.045	.00116	.00313	.103
%RSD	.48745	.07499	.84214	.11172	.24422	.42559	.54645	1.5414	1.0245
#1	.20442	.20676	9.6346	10.103	.21190	10.554	.21280	.20075	10.115
#2	.20302	.20654	9.5206	10.087	.21117	10.490	.21116	.20518	9.9694
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail
High Limit	.00400	.01000	.05000	.50000	.03000	.20000	.00300	.00462	1.0000
Low Limit	-.00300	-.00400	-.04000	-.50000	-.03000	-.04000	-.00300	-.00500	-.50000

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	F **.19590**	F **.19808**	**9.8385**	F **.20413**	F **.20910**	F **9.5939**	F **.19059**	F **.19794**	F **.20010**
Stddev	.00237	.00390	.0004	.00395	.00436	.0141	.00310	.00166	.00086
%RSD	1.2095	1.9698	.00373	1.9340	2.0836	.14723	1.6288	.83721	.42844
#1	.19422	.19532	9.8383	.20134	.20602	9.6038	.18839	.19911	.19949
#2	.19757	.20084	9.8388	.20692	.21218	9.5839	.19278	.19677	.20070
Check ?	Chk Fail	Chk Fail	None	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail
High Limit	.01000	.00500		.02000	.01500	.50000	.01000	.00500	.00500
Low Limit	-.00300	-.00400		-.01000	-.01000	-.50000	-.01000	-.00500	-.00200

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 **.20002**	F **.20707**	F **.20849**
Stddev	.00305	.00065	.00093
%RSD	1.5262	.31217	.44476
#1	.19786	.20752	.20914
#2	.20218	.20661	.20783
Check ?	Chk Fail	Chk Fail	Chk Fail
High Limit	.02000	.00500	.01000
Low Limit	-.01000	-.00300	-.00300

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	**1016.3**	**4750.8**	**38935.**	**6207.6**
Stddev	10.4	51.4	107.	46.9
%RSD	1.0256	1.0825	.27427	.75582
#1	1023.7	4787.2	38859.	6174.4
#2	1008.9	4714.4	39010.	6240.7

Sample Name: 480-58929-A-1-A Acquired: 5/1/2014 19:18:12 Type: Unk
Method: ICAP 2 March 2014(v59) 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**	**-.00513**	**.00131**	**.01424**	**.02962**	**-.00003**	**91.075**	**-.00028**	**-.00019**
Stddev	.00026	.02728	.00131	.00012	.00002	.00004	1.127	.00004	.00012
%RSD	909.22	531.47	99.931	.84339	.05722	123.78	1.2369	13.425	62.128
#1	.00015	-.02442	.00223	.01433	.02961	-.00006	91.872	-.00025	-.00010
#2	-.00021	.01416	.00038	.01416	.02963	.00000	90.279	-.00030	-.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	**-.00048**	**.00104**	**4.7197**	**1.0726**	**.01238**	**20.865**	**.01977**	**-.00002**	**13.530**
Stddev	.00024	.00030	.0163	.0353	.00007	.050	.00002	.00001	.152
%RSD	49.234	29.053	.34574	3.2895	.57887	.23853	.11754	59.039	1.1219
#1	-.00065	.00083	4.7082	1.0976	.01233	20.830	.01979	-.00003	13.637
#2	-.00031	.00125	4.7313	1.0477	.01243	20.900	.01975	-.00001	13.423
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**	**.00065**	**.49399**	**-.00101**	**-.00129**	**7.2385**	**-.00095**	**.12752**	**.00099**
Stddev	.00023	.00044	.00278	.00070	.00076	.0295	.00077	.00046	.00009
%RSD	68.069	68.217	.56334	69.197	59.022	.40724	80.224	.36190	8.9378
#1	.00049	.00034	.49202	-.00052	-.00183	7.2176	-.00150	.12719	.00093
#2	.00017	.00097	.49595	-.00151	-.00075	7.2593	-.00041	.12784	.00105
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	**-.00057**	**.00045**	**.00262**
Stddev	.00004	.00021	.00065
%RSD	6.8193	45.873	24.905
#1	-.00060	.00030	.00215
#2	-.00055	.00060	.00308
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	**978.18**	**4609.3**	**37987.**	**6129.0**
Stddev	3.05	8.5	29.	99.4
%RSD	.31195	.18539	.07657	1.6221
#1	976.03	4615.3	37967.	6058.7
#2	980.34	4603.3	38008.	6199.3

Sample Name: 480-58929-A-2-A Acquired: 5/1/2014 19:20:55 Type: Unk
Method: ICAP 2 March 2014(v59) 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**	**-.00835**	**.00107**	**.01060**	**.02615**	**-.00015**	**67.724**	**-.00032**	**-.00047**
Stddev	.00024	.00063	.00152	.00019	.00006	.00001	.312	.00004	.00006
%RSD	113.75	7.5051	142.86	1.8266	.22091	8.0316	.46076	11.776	11.621
#1	.00004	-.00790	-.00001	.01074	.02619	-.00014	67.945	-.00035	-.00051
#2	.00038	-.00879	.00215	.01046	.02611	-.00016	67.504	-.00030	-.00044
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	**-.00015**	**.00033**	**.49528**	**.69936**	**.01074**	**21.035**	**.01490**	**.00021**	**4.5326**
Stddev	.00002	.00043	.00402	.01180	.00041	.070	.00003	.00027	.0016
%RSD	14.734	131.13	.81100	1.6876	3.7729	.33444	.20016	127.15	.03528
#1	-.00013	.00002	.49244	.70771	.01045	20.985	.01488	.00002	4.5315
#2	-.00017	.00064	.49812	.69102	.01102	21.085	.01493	.00040	4.5337
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**	**.00152**	**7.0406**	**-.00234**	**-.00147**	**7.1710**	**-.00057**	**.08847**	**.00109**
Stddev	.00012	.00083	.0968	.00127	.00081	.0380	.00018	.00002	.00006
%RSD	20.064	54.824	1.3751	54.181	55.010	.53043	31.786	.02279	5.6377
#1	-.00070	.00093	7.1091	-.00323	-.00090	7.1441	-.00045	.08846	.00114
#2	-.00052	.00210	6.9722	-.00144	-.00204	7.1978	-.00070	.08849	.00105
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	**-.00042**	**.00010**	**.00477**
Stddev	.00137	.00030	.00016
%RSD	322.04	297.23	3.2845
#1	.00054	.00031	.00466
#2	-.00139	-.00011	.00488
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	**990.54**	**4658.3**	**38429.**	**6099.0**
Stddev	3.25	17.1	19.	57.9
%RSD	.32798	.36742	.05027	.94959
#1	992.84	4646.2	38443.	6058.0
#2	988.24	4670.4	38416.	6139.9

Sample Name: 480-58931-D-1-A Acquired: 5/1/2014 19:23:37 Type: Unk
Method: ICAP 2 March 2014(v59) 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	**-.00077**	**.01941**	**-.00010**	**.27665**	**.10577**	**-.00014**	**133.17**	**-.00033**	**-.00023**
Stddev	.00023	.02528	.00074	.00463	.00002	.00004	.30	.00010	.00007
%RSD	30.261	130.23	720.28	1.6729	.02177	26.027	.22330	30.102	31.792
#1	-.00094	.03728	.00042	.27992	.10579	-.00011	133.38	-.00040	-.00018
#2	-.00061	.00154	-.00062	.27337	.10575	-.00016	132.96	-.00026	-.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	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	**.00119**	**.00070**	**4.6202**	**5.5111**	**.01852**	**31.097**	**.21926**	**-.00055**	**74.176**
Stddev	.00035	.00010	.0126	.0119	.00102	.021	.00126	.00005	.008
%RSD	28.927	14.383	.27166	.21654	5.5320	.06605	.57426	8.4762	.01046
#1	.00095	.00062	4.6291	5.5027	.01779	31.111	.21837	-.00052	74.171
#2	.00144	.00077	4.6113	5.5196	.01924	31.082	.22015	-.00059	74.182
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**	**-.00003**	**13.479**	**-.00278**	**-.00105**	**6.1160**	**-.00053**	**1.0499**	**.00290**
Stddev	.00009	.00110	.120	.00023	.00034	.0256	.00001	.0026	.00029
%RSD	52.220	3741.6	.89185	8.1934	32.326	.41870	1.6536	.24457	9.8758
#1	.00011	.00075	13.564	-.00294	-.00081	6.1341	-.00054	1.0517	.00269
#2	.00025	-.00081	13.394	-.00262	-.00129	6.0979	-.00052	1.0481	.00310
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	**-.00027**	**.00061**	**.00299**
Stddev	.00067	.00014	.00075
%RSD	253.91	22.813	25.167
#1	-.00074	.00051	.00245
#2	.00021	.00070	.00352
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	**927.06**	**4501.9**	**36798.**	**6092.2**
Stddev	4.70	26.7	71.	28.3
%RSD	.50719	.59407	.19402	.46423
#1	930.39	4483.0	36748.	6072.3
#2	923.74	4520.8	36849.	6112.2

Sample Name: 480-58933-D-1-A Acquired: 5/1/2014 19:26:18 Type: Unk
Method: ICAP 2 March 2014(v59) 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**	**.01021**	**-.00077**	**.19597**	**.04934**	**-.00006**	**77.087**	**-.00049**	**-.00030**
Stddev	.00044	.02166	.00033	.00034	.00007	.00001	.893	.00007	.00024
%RSD	324.48	212.16	42.222	.17533	.14083	17.266	1.1589	14.971	78.046
#1	.00045	.02552	-.00054	.19572	.04938	-.00007	77.719	-.00044	-.00014
#2	-.00018	-.00511	-.00100	.19621	.04929	-.00005	76.455	-.00054	-.00047
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**	**.00111**	**.14376**	**5.9691**	**.01143**	**30.374**	**.01067**	**-.00017**	**32.357**
Stddev	.00052	.00004	.00503	.0140	.00096	.057	.00028	.00016	.324
%RSD	150.53	3.1986	3.4966	.23521	8.3722	.18678	2.6223	92.323	1.0012
#1	.00071	.00113	.14020	5.9592	.01075	30.414	.01087	-.00006	32.586
#2	-.00002	.00108	.14731	5.9791	.01210	30.333	.01047	-.00028	32.128
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**	**-.00070**	**6.6843**	**-.00079**	**-.00059**	**.20309**	**-.00093**	**.39496**	**.00133**
Stddev	.00055	.00003	.0262	.00010	.00333	.00285	.00021	.00340	.00081
%RSD	181.09	4.4180	.39205	13.065	562.34	1.4032	22.049	.86026	60.827
#1	.00069	-.00068	6.6657	-.00071	-.00295	.20108	-.00079	.39737	.00076
#2	-.00008	-.00072	6.7028	-.00086	.00176	.20511	-.00108	.39256	.00191
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	**-.00017**	**-.00008**	**.00322**
Stddev	.00091	.00025	.00023
%RSD	536.72	306.38	6.9933
#1	-.00082	-.00026	.00306
#2	.00048	.00009	.00338
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	**959.80**	**4558.1**	**37367.**	**5948.3**
Stddev	2.88	2.7	11.	17.8
%RSD	.29984	.05884	.02955	.30005
#1	957.76	4560.0	37359.	5935.7
#2	961.83	4556.2	37374.	5960.9

Sample Name: 480-58933-D-2-A Acquired: 5/1/2014 19:29:00 Type: Unk
Method: ICAP 2 March 2014(v59) 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**	**.13486**	**.00026**	**.16015**	**.04548**	**-.00007**	**94.063**	**-.00040**	**.00049**
Stddev	.00008	.01772	.00108	.00012	.00008	.00008	.223	.00008	.00001
%RSD	45.664	13.143	421.69	.07228	.18200	108.48	.23686	20.278	2.4158
#1	.00011	.14739	.00102	.16023	.04554	-.00013	94.220	-.00034	.00048
#2	.00022	.12232	-.00051	.16007	.04542	-.00002	93.905	-.00046	.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	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	**.00072**	**.00428**	**.96338**	**7.4146**	**.02200**	**27.322**	**.15434**	**.00141**	**32.762**
Stddev	.00035	.00023	.00060	.0338	.00178	.155	.00194	.00012	.050
%RSD	48.587	5.3279	.06252	.45624	8.0817	.56574	1.2594	8.7048	.15307
#1	.00096	.00412	.96295	7.3907	.02075	27.431	.15296	.00149	32.798
#2	.00047	.00444	.96380	7.4386	.02326	27.212	.15571	.00132	32.727
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**	**.00025**	**4.9579**	**-.00210**	**.00027**	**4.5772**	**-.00047**	**.70009**	**.00495**
Stddev	.00028	.00128	.0050	.00030	.00215	.0398	.00092	.00094	.00003
%RSD	17.895	506.94	.10064	14.378	794.06	.86884	193.03	.13498	.66378
#1	.00175	.00116	4.9615	-.00189	.00179	4.6053	-.00112	.70076	.00497
#2	.00135	-.00065	4.9544	-.00232	-.00125	4.5491	.00017	.69942	.00493
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	**-.00020**	**.00057**	**.00739**
Stddev	.00031	.00007	.00049
%RSD	150.41	12.739	6.5935
#1	.00001	.00062	.00705
#2	-.00042	.00051	.00774
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	**961.70**	**4562.0**	**37500.**	**6061.5**
Stddev	.36	1.5	19.	41.3
%RSD	.03761	.03210	.05085	.68156
#1	961.44	4561.0	37513.	6032.3
#2	961.95	4563.0	37487.	6090.7

Sample Name: CCV Acquired: 5/1/2014 19:31:41 Type: QC
Method: ICAP 2 March 2014(v59) 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	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.49882	24.918	.51069	.50181	.51313	.49092	24.527	.50814	.50239	.50506	.51147	23.815	25.521
Stddev	.00354	.148	.00102	.00124	.00094	.00263	.128	.00105	.00130	.00506	.00148	.135	.188
%RSD	.71062	.59297	.19978	.24709	.18362	.53471	.52008	.20706	.25797	1.0010	.29002	.56781	.73680
#1	.50133	25.022	.51141	.50093	.51380	.49278	24.617	.50888	.50331	.50863	.51252	23.911	25.654
#2	.49632	24.813	.50997	.50268	.51247	.48906	24.437	.50740	.50148	.50148	.51042	23.720	25.388
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
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	.53294	25.692	.52428	.51587	25.616	.51208	.50693	24.772	.51941	.50342	24.349	.49760	.50386
Stddev	.00136	.104	.00157	.00061	.114	.00006	.00117	.037	.00222	.00500	.117	.00045	.00199
%RSD	.25447	.40405	.29856	.11770	.44446	.01249	.23160	.15026	.42797	.99346	.48064	.09028	.39578
#1	.53390	25.766	.52539	.51544	25.696	.51212	.50776	24.798	.51784	.49988	24.431	.49792	.50527
#2	.53198	25.619	.52317	.51630	25.535	.51203	.50610	24.746	.52099	.50695	24.266	.49728	.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	Chk Pass
Value													
Range													

Elem	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm
Avg	.51452	.50067	.50512	.51893
Stddev	.00316	.00292	.00290	.00467
%RSD	.61500	.58315	.57335	.90082
#1	.51675	.50273	.50716	.52223
#2	.51228	.49861	.50307	.51562
Check ?	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	956.78	4665.1	37808.	5990.2
Stddev	2.30	3.9	75.	9.3
%RSD	.24022	.08408	.19722	.15592
#1	955.16	4662.3	37756.	5983.6
#2	958.41	4667.9	37861.	5996.8

Sample Name: CCB Acquired: 5/1/2014 19:34:15 Type: QC
Method: ICAP 2 March 2014(v59) 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	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00012**	**.00197**	**-.00188**	**-.00067**	**.00003**	**.00018**	**.01365**	**-.00043**	**-.00056**	**-.00026**	**-.00053**	**.01547**	**-.01303**
Stddev	.00069	.03007	.00143	.00019	.00001	.00027	.02239	.00009	.00003	.00039	.00003	.01822	.04853
%RSD	557.07	1524.4	75.984	28.787	42.087	153.99	164.04	20.710	5.0436	146.56	5.9754	117.74	372.43
#1	-.00061	.02324	-.00087	-.00080	.00002	.00037	.02948	-.00036	-.00059	.00001	-.00051	.02835	.02129
#2	.00036	-.01929	-.00289	-.00053	.00004	-.00002	-.00218	-.00049	-.00054	-.00054	-.00056	.00259	-.04735
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
High Limit													
Low Limit													

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	**.00146**	**.00404**	**.00000**	**-.00024**	**.11360**	**-.00092**	**.00008**	**.01375**	**.00001**	**.00258**	**-.03021**	**-.00078**	**.00036**
Stddev	.00067	.00915	.0001	.00022	.02047	.00001	.00145	.00124	.00043	.00247	.01019	.00013	.00046
%RSD	45.629	226.76	3354.4	92.458	18.015	1.5766	1772.8	9.0277	2882.3	95.830	33.722	16.954	127.52
#1	.00193	.01051	.00003	-.00008	.12807	-.00091	-.00094	.01463	.00032	.00083	-.03742	-.00069	.00068
#2	.00099	-.00243	-.00003	-.00040	.09913	-.00093	.00111	.01288	-.00029	.00432	-.02301	-.00088	.00004
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
High Limit													
Low Limit													

Elem	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm
Avg	**.00032**	**-.00054**	**.00057**	**.00063**
Stddev	.00015	.00063	.00047	.00042
%RSD	47.225	117.03	81.600	67.299
#1	.00021	-.00099	.00090	.00033
#2	.00043	-.00009	.00024	.00093
Check ?	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	**1075.7**	**4818.7**	**39631.**	**6073.8**
Stddev	1.8	3.6	174.	54.4
%RSD	.16828	.07539	.43884	.89574
#1	1074.4	4816.2	39508.	6035.3
#2	1077.0	4821.3	39754.	6112.3

Sample Name: CCVL Acquired: 5/1/2014 19:37:00 Type: QC
Method: ICAP 2 March 2014(v59) 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	**.00544**	**.19362**	**.01170**	**.01883**	**.00229**	**.00180**	**.45606**	**.00166**	**.00342**	**.00374**	**.00974**	**.04393**
Stddev	.00013	.04672	.00051	.00041	.00000	.00008	.00897	.00005	.00004	.00003	.00026	.00060
%RSD	2.3896	24.127	4.3878	2.1587	.12386	4.3935	1.9675	3.1160	1.2132	.72942	2.6413	1.3691
#1	.00553	.16059	.01206	.01912	.00229	.00175	.46241	.00170	.00345	.00372	.00956	.04351
#2	.00534	.22666	.01134	.01854	.00229	.00186	.44972	.00162	.00339	.00376	.00992	.04436
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	**.49407**	**.03091**	**.20039**	**.00288**	**.00930**	**1.0661**	**.00879**	**.00926**	F **.01669**	**.01833**	**.02435**	**.40642**
Stddev	.00690	.00034	.00491	.00010	.00000	.0090	.00005	.00048	.00019	.00039	.00192	.00155
%RSD	1.3965	1.1136	2.4485	3.4538	.03925	.84706	.57882	5.1714	1.1346	2.1368	7.8747	.38195
#1	.48919	.03115	.19692	.00281	.00930	1.0724	.00875	.00960	.01682	.01861	.02299	.40532
#2	.49894	.03066	.20386	.00295	.00930	1.0597	.00883	.00892	.01656	.01806	.02571	.40752
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
Value									.20000			
Range									-50.000%			

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00795**	**.00476**	**.00504**	**.01835**	**.00497**	**.00977**
Stddev	.00008	.00009	.00053	.00082	.00064	.00010
%RSD	.94604	1.9402	10.610	4.4564	12.871	1.0692
#1	.00789	.00483	.00542	.01777	.00543	.00985
#2	.00800	.00470	.00466	.01892	.00452	.00970
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	**1077.8**	**4846.7**	**39794.**	**6182.6**
Stddev	4.0	3.2	220.	65.4
%RSD	.36748	.06574	.55262	1.0586
#1	1075.0	4844.5	39949.	6136.3
#2	1080.6	4849.0	39638.	6228.9

Sample Name: 480-58933-D-3-A Acquired: 5/1/2014 19:39:45 Type: Unk
Method: ICAP 2 March 2014(v59) 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**	**.00617**	**-.00017**	**.16033**	**.02255**	**-.00017**	**35.697**	**-.00053**	**-.00035**
Stddev	.00076	.00984	.00251	.00080	.00000	.00001	.345	.00003	.00009
%RSD	115.05	159.45	1476.3	.49592	.00832	3.1588	.96655	5.9999	24.218
#1	.00012	-.00079	-.00195	.15976	.02255	-.00017	35.941	-.00051	-.00041
#2	.00119	.01313	.00161	.16089	.02255	-.00016	35.453	-.00055	-.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**	**.00085**	**.17746**	**6.7455**	**.00848**	**17.499**	**.01446**	**.00018**	**46.467**
Stddev	.00005	.00088	.00124	.0418	.00072	.055	.00001	.00013	.377
%RSD	19.026	103.33	.69951	.62041	8.5332	.31186	.07804	72.306	.81218
#1	.00030	.00023	.17659	6.7159	.00900	17.538	.01447	.00028	46.734
#2	.00023	.00147	.17834	6.7751	.00797	17.460	.01446	.00009	46.200
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	**.00059**	**-.00085**	**5.9813**	**-.00011**	**.00071**	**.52560**	**-.00053**	**.21459**	**.00179**
Stddev	.00027	.00059	.0365	.00049	.00013	.03045	.00012	.00195	.00005
%RSD	45.258	69.135	.60984	460.92	18.886	5.7936	22.009	.90824	2.9158
#1	.00078	-.00044	5.9556	-.00046	.00061	.50407	-.00061	.21597	.00175
#2	.00040	-.00127	6.0071	.00024	.00080	.54713	-.00045	.21321	.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	**-.00043**	**.00044**	**.00424**
Stddev	.00095	.00040	.00112
%RSD	220.44	91.539	26.395
#1	.00024	.00015	.00503
#2	-.00110	.00072	.00345
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	**985.09**	**4643.1**	**38210.**	**6098.5**
Stddev	3.80	7.5	53.	33.0
%RSD	.38530	.16197	.13987	.54065
#1	982.40	4648.4	38172.	6075.1
#2	987.77	4637.8	38247.	6121.8

Sample Name: 480-58933-D-4-A Acquired: 5/1/2014 19:42:26 Type: Unk
Method: ICAP 2 March 2014(v59) 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**	**-.03636**	**-.00138**	**.19789**	**.04990**	**-.00012**	**76.600**	**-.00046**	**-.00029**
Stddev	.00006	.03261	.00063	.00026	.00001	.00003	1.275	.00005	.00001
%RSD	14.848	89.696	45.575	.13136	.02458	27.728	1.6639	11.893	5.0096
#1	.00038	-.05942	-.00183	.19771	.04989	-.00014	77.501	-.00050	-.00028
#2	.00047	-.01330	-.00094	.19807	.04991	-.00009	75.699	-.00042	-.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	**-.00031**	**.00087**	**.14010**	**5.9864**	**.01196**	**30.249**	**.01108**	**-.00006**	**32.484**
Stddev	.00035	.00051	.00126	.0338	.00008	.004	.00009	.00019	.478
%RSD	110.97	58.413	.89908	.56401	.70598	.01294	.77416	349.22	1.4724
#1	-.00056	.00123	.14099	5.9625	.01202	30.252	.01115	.00008	32.822
#2	-.00007	.00051	.13921	6.0102	.01190	30.246	.01102	-.00019	32.145
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	**-.00005**	**-.00152**	**6.8063**	**-.00038**	**-.00009**	**.20278**	**-.00065**	**.39578**	**.00065**
Stddev	.00049	.00005	.0180	.00005	.00005	.00219	.00036	.00569	.00051
%RSD	987.14	3.3435	.26439	11.949	53.872	1.0781	55.370	1.4379	78.733
#1	-.00040	-.00155	6.7936	-.00035	-.00012	.20432	-.00090	.39981	.00029
#2	.00030	-.00148	6.8190	-.00041	-.00006	.20123	-.00039	.39176	.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	**-.00040**	**.00024**	**.00208**
Stddev	.00037	.00016	.00041
%RSD	92.898	64.329	19.859
#1	-.00014	.00035	.00237
#2	-.00066	.00013	.00179
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	**964.11**	**4585.1**	**37931.**	**6109.4**
Stddev	3.81	2.3	77.	103.6
%RSD	.39497	.04994	.20424	1.6956
#1	961.41	4583.5	37986.	6036.2
#2	966.80	4586.7	37876.	6182.7

Sample Name: 480-58939-A-1-A Acquired: 5/1/2014 19:45:08 Type: Unk
Method: ICAP 2 March 2014(v59) 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**	**2.6123**	**.00020**	**.00840**	**.07834**	**.00073**	**44.242**	**-.00035**	**.04921**
Stddev	.00055	.0157	.00049	.00014	.00015	.00022	.334	.00013	.00032
%RSD	249.72	.60088	251.87	1.6493	.18988	30.571	.75555	37.945	.64204
#1	.00017	2.6012	.00054	.00830	.07844	.00057	44.478	-.00026	.04943
#2	-.00061	2.6234	-.00015	.00850	.07823	.00088	44.006	-.00045	.04899
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	**.00014**	**.00083**	**8.1265**	**1.5385**	**.04667**	**11.841**	**1.8486**	**-.00072**	**4.9531**
Stddev	.00037	.00058	.0226	.0484	.00010	.127	.0011	.00008	.0263
%RSD	264.42	69.866	.27767	3.1438	.20644	1.0724	.06176	10.405	.53119
#1	-.00012	.00042	8.1425	1.5727	.04674	11.751	1.8478	-.00067	4.9717
#2	.00040	.00123	8.1106	1.5043	.04660	11.930	1.8494	-.00078	4.9345
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	**.07266**	**.00034**	**56.085**	**-.00172**	**.00135**	**5.7511**	**-.00103**	**.14631**	**.00030**
Stddev	.00027	.00008	.191	.00040	.00232	.0055	.00008	.00020	.00005
%RSD	.37067	22.476	.34136	22.970	172.04	.09574	7.2681	.13682	15.488
#1	.07285	.00029	56.220	-.00200	-.00029	5.7550	-.00098	.14645	.00027
#2	.07247	.00040	55.949	-.00144	.00298	5.7472	-.00109	.14617	.00034
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	**.00024**	**.00005**	**.18510**
Stddev	.00001	.00038	.00147
%RSD	4.2913	745.02	.79471
#1	.00025	-.00021	.18406
#2	.00023	.00032	.18614
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	**1026.7**	**4708.8**	**38815.**	**6119.5**
Stddev	1.6	1.3	198.	23.1
%RSD	.15925	.02853	.51016	.37737
#1	1025.6	4707.8	38955.	6103.2
#2	1027.9	4709.7	38675.	6135.8

Sample Name: 480-58939-A-2-A Acquired: 5/1/2014 19:47:48 Type: Unk
Method: ICAP 2 March 2014(v59) 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**	**.02288**	**-.00042**	**.07881**	**.00211**	**-.00013**	**31.358**	**-.00050**	**-.00015**
Stddev	.00065	.00922	.00082	.00043	.00002	.00014	.118	.00001	.00006
%RSD	4524.3	40.303	193.70	.55007	.71250	102.26	.37770	.99376	37.665
#1	.00047	.02939	-.00100	.07911	.00210	-.00004	31.442	-.00051	-.00019
#2	-.00044	.01636	.00016	.07850	.00212	-.00023	31.274	-.00050	-.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	**.00154**	**.00098**	**34.899**	**4.7893**	**.00576**	**11.087**	**.84638**	**-.00096**	**2.6841**
Stddev	.00051	.00008	.182	.0179	.00156	.045	.00069	.00016	.0056
%RSD	32.773	7.9308	.52258	.37299	27.041	.40266	.08143	16.255	.20827
#1	.00118	.00092	35.028	4.8019	.00466	11.056	.84589	-.00085	2.6880
#2	.00190	.00103	34.770	4.7766	.00686	11.119	.84686	-.00107	2.6801
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	**.00115**	**-.00043**	**27.073**	**-.00311**	**.00232**	**.93698**	**-.00081**	**.11092**	**.00157**
Stddev	.00002	.00048	.129	.00076	.00314	.01495	.00013	.00013	.00069
%RSD	1.8719	112.81	.47738	24.519	135.21	1.5960	15.798	.11294	44.274
#1	.00116	-.00009	27.164	-.00257	.00010	.92641	-.00090	.11083	.00108
#2	.00113	-.00077	26.981	-.00365	.00454	.94756	-.00072	.11101	.00206
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	**-.00070**	**.00343**	**.00345**
Stddev	.00029	.00054	.00002
%RSD	41.515	15.647	.45465
#1	-.00049	.00381	.00344
#2	-.00090	.00305	.00346
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	**1014.3**	**4711.6**	**38511.**	**5994.8**
Stddev	4.0	20.9	19.	15.5
%RSD	.39697	.44366	.04867	.25923
#1	1011.4	4696.8	38497.	5983.8
#2	1017.1	4726.4	38524.	6005.8

Sample Name: 480-58939-A-3-A Acquired: 5/1/2014 19:50:28 Type: Unk
Method: ICAP 2 March 2014(v59) 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**	**1.9692**	**.00767**	**.02965**	**.01321**	**.00005**	**24.453**	**-.00023**	**.00094**
Stddev	.00061	.0020	.00129	.00049	.00001	.00001	.223	.00010	.00009
%RSD	168.51	.10059	16.846	1.6509	.07104	27.158	.91051	46.271	9.3200
#1	-.00080	1.9706	.00675	.02930	.01321	.00006	24.611	-.00015	.00100
#2	.00007	1.9678	.00858	.03000	.01322	.00004	24.296	-.00030	.00088
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	**.00623**	**.01062**	**9.0367**	**5.3369**	**.00753**	**3.5719**	**.23176**	**-.00058**	**6.8077**
Stddev	.00066	.00060	.0052	.0454	.00013	.0033	.00310	.00013	.0523
%RSD	10.611	5.6785	.05744	.85163	1.6996	.09133	1.3390	22.229	.76879
#1	.00670	.01020	9.0404	5.3047	.00744	3.5696	.22957	-.00049	6.8447
#2	.00577	.01105	9.0330	5.3690	.00762	3.5742	.23395	-.00067	6.7707
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	**.00449**	**.00271**	**9.1880**	**-.00193**	**.00080**	**4.5783**	**-.00060**	**.14436**	**.06519**
Stddev	.00008	.00011	.0397	.00029	.00108	.0135	.00016	.00031	.00046
%RSD	1.6736	3.8779	.43215	14.927	134.61	.29539	27.086	.21164	.70527
#1	.00455	.00263	9.1599	-.00214	.00004	4.5879	-.00071	.14414	.06486
#2	.00444	.00278	9.2161	-.00173	.00156	4.5688	-.00048	.14458	.06551
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**	**.02170**	**.02067**
Stddev	.00034	.00060	.00045
%RSD	28.536	2.7479	2.1586
#1	-.00096	.02128	.02036
#2	-.00145	.02212	.02099
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	**1022.1**	**4756.5**	**39019.**	**6090.7**
Stddev	11.0	30.2	153.	50.8
%RSD	1.0774	.63576	.39307	.83444
#1	1029.9	4777.9	38910.	6054.7
#2	1014.4	4735.2	39127.	6126.6

Sample Name: 480-58939-A-4-A Acquired: 5/1/2014 19:53:10 Type: Unk
Method: ICAP 2 March 2014(v59) 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**	**1.0222**	**.00234**	**.01257**	**.08206**	**-.00015**	**10.370**	**-.00026**	**.00233**
Stddev	.00109	.0140	.00032	.00022	.00030	.00008	.001	.00000	.00017
%RSD	759.31	1.3709	13.649	1.7349	.36896	55.485	.00656	1.5632	7.3825
#1	-.00063	1.0321	.00212	.01242	.08228	-.00020	10.371	-.00026	.00221
#2	.00091	1.0123	.00257	.01273	.08185	-.00009	10.370	-.00026	.00245
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	**.00390**	**.00399**	**14.851**	**2.8320**	**.03863**	**9.8492**	**.38939**	**-.00024**	**19.918**
Stddev	.00053	.00091	.001	.0044	.00042	.1010	.00096	.00022	.085
%RSD	13.582	22.846	.00658	.15680	1.0745	1.0253	.24697	89.595	.42723
#1	.00427	.00464	14.850	2.8351	.03893	9.9206	.39007	-.00009	19.858
#2	.00352	.00335	14.852	2.8288	.03834	9.7777	.38871	-.00039	19.978
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	**.01027**	**.00250**	**14.236**	**-.00177**	**.00142**	**9.0979**	**-.00026**	**.05589**	**.01722**
Stddev	.00024	.00069	.033	.00009	.00078	.0141	.00005	.00023	.00135
%RSD	2.3160	27.763	.23076	5.2899	55.223	.15478	18.547	.40363	7.8190
#1	.01044	.00299	14.260	-.00170	.00197	9.1079	-.00029	.05605	.01627
#2	.01010	.00201	14.213	-.00184	.00086	9.0880	-.00022	.05573	.01817
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**	**.00303**	**.02056**
Stddev	.00105	.00060	.00010
%RSD	574.47	19.817	.46491
#1	.00092	.00346	.02063
#2	-.00056	.00261	.02049
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	**1025.9**	**4739.5**	**38993.**	**6116.7**
Stddev	3.3	6.2	143.	16.6
%RSD	.32626	.12977	.36569	.27215
#1	1023.5	4735.2	39094.	6128.4
#2	1028.2	4743.9	38892.	6104.9

Sample Name: 480-58939-A-5-A Acquired: 5/1/2014 19:55:52 Type: Unk
Method: ICAP 2 March 2014(v59) 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**	**-.00462**	**-.00054**	**.01061**	**.08676**	**-.00011**	**18.595**	**-.00022**	**-.00027**
Stddev	.00014	.00060	.00158	.00006	.00004	.00019	.240	.00003	.00010
%RSD	49.067	13.068	293.05	.56196	.04205	170.32	1.2904	13.457	36.691
#1	.00018	-.00420	.00058	.01065	.08673	.00002	18.765	-.00025	-.00034
#2	.00038	-.00505	-.00165	.01056	.08678	-.00025	18.426	-.00020	-.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	**-.00044**	**.00069**	**4.9688**	**2.2115**	**.04775**	**13.161**	**.11731**	**-.00036**	**9.6569**
Stddev	.00012	.00081	.0063	.0113	.00053	.042	.00045	.00001	.0911
%RSD	27.337	117.31	.12660	.51114	1.1145	.31696	.38188	3.6007	.94357
#1	-.00036	.00012	4.9733	2.2195	.04813	13.190	.11763	-.00036	9.7213
#2	-.00053	.00127	4.9644	2.2036	.04737	13.131	.11700	-.00037	9.5924
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**	**-.00033**	**3.3028**	**-.00017**	**.00079**	**7.6726**	**-.00104**	**.09729**	**.00058**
Stddev	.00011	.00027	.0275	.00007	.00202	.0527	.00009	.00011	.00042
%RSD	37.154	80.476	.83396	42.729	255.97	.68681	8.7901	.11475	72.449
#1	-.00037	-.00052	3.3222	-.00012	.00222	7.7098	-.00098	.09721	.00028
#2	-.00021	-.00014	3.2833	-.00023	-.00064	7.6353	-.00111	.09736	.00088
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	**.00027**	**.00010**	**.00393**
Stddev	.00072	.00074	.00025
%RSD	264.39	770.30	6.4259
#1	-.00024	-.00043	.00411
#2	.00079	.00062	.00375
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	**1021.9**	**4718.4**	**38843.**	**6145.7**
Stddev	6.8	2.2	55.	40.1
%RSD	.66859	.04564	.14263	.65186
#1	1026.7	4716.9	38804.	6117.3
#2	1017.1	4719.9	38882.	6174.0

Sample Name: 480-58939-A-6-A Acquired: 5/1/2014 19:58:47 Type: Unk
Method: ICAP 2 March 2014(v59) 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**	**2.6767**	**.00027**	**.08388**	**.02294**	**.00058**	**15.939**	**-.00003**	**.01503**
Stddev	.00040	.0014	.00060	.00045	.00009	.00002	.034	.00030	.00007
%RSD	799.52	.05175	218.98	.53336	.37325	3.7198	.21302	906.16	.49492
#1	.00023	2.6777	-.00015	.08420	.02288	.00057	15.963	.00018	.01498
#2	-.00033	2.6757	.00069	.08357	.02300	.00060	15.915	-.00025	.01509
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	**.00160**	**.01080**	**.70345**	**2.5960**	**.00814**	**4.6538**	**.27020**	**-.00052**	**12.546**
Stddev	.00040	.00029	.00872	.0150	.00014	.0025	.00003	.00019	.062
%RSD	25.232	2.7187	1.2393	.57610	1.7226	.05400	.01166	36.959	.49385
#1	.00189	.01059	.70961	2.6066	.00804	4.6521	.27018	-.00065	12.590
#2	.00132	.01101	.69728	2.5855	.00824	4.6556	.27022	-.00038	12.502
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	**.01657**	**.00242**	**28.592**	**-.00064**	**-.00111**	**2.1083**	**-.00047**	**.10033**	**.00352**
Stddev	.00039	.00089	.030	.00046	.00131	.0084	.00043	.00017	.00048
%RSD	2.3713	36.638	.10336	72.190	117.66	.39965	90.915	.16508	13.535
#1	.01629	.00179	28.571	-.00097	-.00019	2.1142	-.00078	.10022	.00319
#2	.01684	.00304	28.613	-.00031	-.00203	2.1023	-.00017	.10045	.00386
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	**-.00059**	**-.00004**	**.06608**
Stddev	.00036	.00030	.00035
%RSD	59.799	837.78	.53578
#1	-.00084	-.00025	.06583
#2	-.00034	.00017	.06633
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	**1032.7**	**4751.8**	**39279.**	**6181.4**
Stddev	4.8	5.0	71.	3.0
%RSD	.46120	.10502	.18104	.04836
#1	1036.1	4755.4	39329.	6183.6
#2	1029.3	4748.3	39229.	6179.3

Sample Name: 480-58939-A-7-A Acquired: 5/1/2014 20:01:28 Type: Unk
Method: ICAP 2 March 2014(v59) 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**	**7.8853**	**.00013**	**.00512**	**.04869**	**.00100**	**3.6505**	**-.00040**	**.00349**
Stddev	.00044	.0039	.00111	.00005	.00055	.00005	.0219	.00006	.00007
%RSD	899.11	.04961	891.10	.98541	1.1216	5.3470	.59961	15.185	2.0549
#1	-.00036	7.8825	-.00066	.00508	.04908	.00104	3.6660	-.00044	.00344
#2	.00026	7.8880	.00091	.00515	.04830	.00097	3.6350	-.00036	.00354
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	**-.00008**	**.00029**	**1.9951**	**1.5505**	**.01359**	**4.2149**	**.09120**	**-.00057**	**13.256**
Stddev	.00064	.00006	.0036	.0288	.00075	.0018	.00058	.00008	.018
%RSD	828.24	19.395	.17799	1.8590	5.5063	.04363	.63323	13.296	.13838
#1	-.00053	.00025	1.9926	1.5708	.01306	4.2136	.09079	-.00051	13.269
#2	.00037	.00033	1.9976	1.5301	.01411	4.2162	.09161	-.00062	13.243
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	**.00592**	**.00056**	**18.648**	**-.00254**	**-.00162**	**2.3730**	**-.00069**	**.04463**	**.00058**
Stddev	.00002	.00075	.138	.00018	.00105	.0037	.00030	.00041	.00073
%RSD	.35180	132.74	.74226	6.9589	64.783	.15773	43.801	.91983	125.82
#1	.00590	.00003	18.550	-.00267	-.00088	2.3756	-.00047	.04492	.00006
#2	.00593	.00109	18.746	-.00242	-.00237	2.3703	-.00090	.04434	.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	**-.00010**	**.00303**	**.03439**
Stddev	.00081	.00007	.00036
%RSD	848.36	2.2487	1.0609
#1	.00048	.00308	.03465
#2	-.00067	.00298	.03414
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	**1025.9**	**4863.9**	**40217.**	**6129.5**
Stddev	16.0	29.7	186.	22.2
%RSD	1.5613	.61118	.46312	.36274
#1	1037.2	4885.0	40086.	6145.2
#2	1014.5	4842.9	40349.	6113.8

Sample Name: CCV Acquired: 5/1/2014 20:04:09 Type: QC
Method: ICAP 2 March 2014(v59) 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	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.50017**	**25.190**	**.51225**	**.50554**	**.51055**	**.49581**	**24.718**	**.50880**	**.50034**	**.50646**	**.51276**	**23.979**	**25.773**
Stddev	.00098	.094	.00062	.00054	.00179	.00191	.139	.00007	.00048	.00010	.00006	.076	.162
%RSD	.19664	.37402	.12181	.10694	.35145	.38572	.56403	.01468	.09670	.01917	.01145	.31555	.62803
#1	.49947	25.256	.51181	.50516	.51182	.49716	24.817	.50886	.50068	.50653	.51272	24.033	25.888
#2	.50086	25.123	.51269	.50592	.50929	.49446	24.619	.50875	.50000	.50639	.51280	23.926	25.659
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
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	**.53246**	**25.706**	**.52541**	**.52164**	**25.871**	**.51358**	**.50845**	**24.781**	**.52732**	**.50915**	**24.321**	**.50164**	**.50885**
Stddev	.00055	.122	.00097	.00029	.119	.00084	.00288	.003	.00079	.00081	.127	.00003	.00266
%RSD	.10411	.47486	.18440	.05513	.46068	.16283	.56713	.01138	.14933	.15862	.52119	.00648	.52314
#1	.53285	25.619	.52473	.52184	25.956	.51417	.50641	24.779	.52788	.50973	24.231	.50162	.51073
#2	.53206	25.792	.52610	.52143	25.787	.51299	.51048	24.783	.52677	.50858	24.411	.50167	.50697
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
Value													
Range													

Elem	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm
Avg	**.51554**	**.50358**	**.50697**	**.52001**
Stddev	.00031	.00107	.00118	.00134
%RSD	.06001	.21184	.23198	.25828
#1	.51532	.50283	.50614	.51906
#2	.51576	.50434	.50780	.52096
Check ?	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	**961.72**	**4653.7**	**37757.**	**5939.4**
Stddev	.49	1.5	202.	66.2
%RSD	.05095	.03262	.53619	1.1143
#1	961.37	4652.7	37901.	5892.7
#2	962.07	4654.8	37614.	5986.2

Sample Name: CCB Acquired: 5/1/2014 20:06:43 Type: QC
Method: ICAP 2 March 2014(v59) 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	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00016**	**-.01604**	**-.00113**	**-.00102**	**.00009**	**-.00009**	**-.00257**	**-.00050**	**-.00035**	**.00024**	**.00006**	**.00220**	**-.02551**
Stddev	.00032	.04127	.00096	.00046	.00010	.00011	.00286	.00005	.00003	.00020	.00032	.00617	.01097
%RSD	201.12	257.24	85.013	44.989	113.38	117.11	111.42	10.829	8.9496	81.811	532.79	280.99	43.004
#1	.00038	.01314	-.00045	-.00070	.00002	-.00017	-.00054	-.00054	-.00037	.00038	-.00017	-.00217	-.03327
#2	-.00007	-.04522	-.00180	-.00135	.00017	-.00002	-.00459	-.00046	-.00033	.00010	.00029	.00656	-.01775
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
High Limit													
Low Limit													

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	**.00291**	**.00581**	**.00006**	**-.00034**	**.07154**	**-.00087**	**-.00027**	**.00725**	**-.00023**	**.00088**	**-.04780**	**-.00106**	**.00001**
Stddev	.00067	.00400	.00025	.00005	.00343	.00016	.00093	.00562	.00078	.00079	.01320	.00007	.00009
%RSD	22.983	68.814	433.07	15.252	4.8001	18.025	343.50	77.532	333.90	90.732	27.621	6.4739	807.87
#1	.00244	.00298	-.00012	-.00030	.07396	-.00098	-.00093	.00327	-.00079	.00031	-.05713	-.00111	-.00005
#2	.00338	.00863	.00024	-.00037	.06911	-.00076	.00039	.01122	.00032	.00144	-.03846	-.00101	.00007
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
High Limit													
Low Limit													

Elem	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm
Avg	**.00018**	**-.00027**	**.00057**	**-.00012**
Stddev	.00017	.00078	.00021	.00036
%RSD	92.908	291.15	36.034	301.12
#1	.00030	.00028	.00043	-.00037
#2	.00006	-.00082	.00072	.00014
Check ?	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	**1065.5**	**4799.3**	**39358.**	**6089.7**
Stddev	9.3	.7	45.	21.3
%RSD	.87433	.01374	.11474	.34985
#1	1072.1	4798.8	39326.	6074.6
#2	1058.9	4799.7	39390.	6104.7

Sample Name: CCVL Acquired: 5/1/2014 20:09:28 Type: QC
Method: ICAP 2 March 2014(v59) 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	**.00556**	**.17714**	**.01241**	**.01857**	**.00225**	**.00186**	**.46929**	**.00160**	**.00342**	**.00395**	**.00936**	**.04270**
Stddev	.00006	.02197	.00173	.00026	.00001	.00000	.00745	.00004	.00006	.00062	.00041	.00080
%RSD	1.0618	12.400	13.954	1.3769	.22323	.19472	1.5871	2.5258	1.7349	15.764	4.3289	1.8798
#1	.00552	.16161	.01119	.01839	.00225	.00186	.46403	.00163	.00338	.00351	.00908	.04213
#2	.00561	.19267	.01364	.01875	.00226	.00187	.47456	.00157	.00346	.00438	.00965	.04327
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	**.46127**	**.03093**	**.19812**	**.00298**	**.00930**	**1.0592**	**.00854**	**.00991**	F **.00722**	**.01873**	**.02586**	**.42070**
Stddev	.02018	.00165	.00534	.00007	.00009	.0019	.00003	.00059	.00566	.00064	.00318	.00535
%RSD	4.3755	5.3262	2.6936	2.4193	.98374	.18434	.34050	5.9261	78.436	3.4291	12.299	1.2710
#1	.44699	.02977	.19434	.00293	.00923	1.0605	.00852	.01032	.01123	.01918	.02361	.42448
#2	.47554	.03210	.20189	.00303	.00936	1.0578	.00856	.00949	.00322	.01827	.02811	.41692
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
Value									.20000			
Range									-50.000%			

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00800**	**.00486**	**.00526**	**.01916**	**.00443**	**.01004**
Stddev	.00002	.00005	.00018	.00027	.00103	.00025
%RSD	.20332	1.0122	3.3418	1.4098	23.170	2.4593
#1	.00801	.00490	.00514	.01936	.00516	.00987
#2	.00799	.00483	.00539	.01897	.00371	.01022
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	**1072.0**	**4847.9**	**39522.**	**6141.9**
Stddev	3.6	7.9	209.	49.9
%RSD	.33885	.16229	.52998	.81239
#1	1069.4	4842.3	39670.	6106.6
#2	1074.5	4853.5	39374.	6177.1

Sample Name: 480-58939-A-8-A Acquired: 5/1/2014 20:12:13 Type: Unk
Method: ICAP 2 March 2014(v59) 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**	**5.4572**	**.00091**	**.04344**	**.03103**	**.00072**	**3.8429**	**.00089**	**.02656**
Stddev	.00041	.0442	.00022	.00051	.00003	.00001	.0002	.00006	.00028
%RSD	115.15	.81005	23.687	1.1648	.10261	1.5162	.00541	6.2602	1.0360
#1	-.00065	5.4259	.00106	.04308	.03101	.00073	3.8431	.00085	.02636
#2	-.00007	5.4884	.00076	.04380	.03106	.00072	3.8428	.00093	.02675
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	**.00191**	**.00338**	**3.8317**	**3.9746**	**.01319**	**2.0613**	**.09525**	**-.00027**	**4.1599**
Stddev	.00009	.00032	.0097	.0179	.00008	.0202	.00001	.00014	.0691
%RSD	4.7856	9.5025	.25378	.45134	.61161	.98186	.01124	53.212	1.6615
#1	.00184	.00315	3.8248	3.9619	.01314	2.0470	.09525	-.00037	4.1111
#2	.00197	.00360	3.8385	3.9873	.01325	2.0756	.09526	-.00017	4.2088
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	**.04385**	**.00211**	**18.732**	**-.00099**	**.00265**	**4.4621**	**-.00077**	**.01916**	**.00812**
Stddev	.00077	.00081	.106	.00021	.00068	.0191	.00011	.00005	.00246
%RSD	1.7665	38.557	.56591	21.414	25.646	.42875	14.330	.24678	30.252
#1	.04330	.00154	18.657	-.00084	.00313	4.4485	-.00085	.01919	.00639
#2	.04440	.00269	18.807	-.00114	.00217	4.4756	-.00069	.01912	.00986
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	**-.00031**	**.01770**	**.19544**
Stddev	.00063	.00001	.00191
%RSD	201.31	.03446	.97638
#1	-.00076	.01769	.19409
#2	.00013	.01770	.19679
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	**1044.4**	**4812.5**	**39873.**	**6197.2**
Stddev	5.0	17.0	25.	71.3
%RSD	.47512	.35413	.06292	1.1506
#1	1047.9	4824.5	39856.	6247.6
#2	1040.9	4800.4	39891.	6146.8

Sample Name: 480-58939-A-9-A Acquired: 5/1/2014 20:14:55 Type: Unk
Method: ICAP 2 March 2014(v59) 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	**-.00173**	**103.01**	**.01975**	**.00087**	**.01266**	**.01690**	**9.8284**	**-.00039**	**.14681**
Stddev	.00010	.09	.00001	.00029	.00000	.00016	.0371	.00012	.00046
%RSD	5.8761	.09145	.05542	32.875	.00651	.92566	.37756	30.091	.31019
#1	-.00166	103.07	.01975	.00108	.01266	.01679	9.8021	-.00031	.14713
#2	-.00181	102.94	.01976	.00067	.01266	.01701	9.8546	-.00048	.14649
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	**-.00044**	**.00116**	**160.20**	**2.3188**	**.10898**	**27.866**	**1.4765**	**-.00284**	**5.2265**
Stddev	.00014	.00030	.49	.0370	.00090	.080	.0021	.00015	.0004
%RSD	31.928	25.745	.30454	1.5945	.82289	.28643	.14194	5.1392	.00778
#1	-.00054	.00095	159.86	2.2927	.10962	27.810	1.4779	-.00274	5.2268
#2	-.00034	.00138	160.55	2.3449	.10835	27.923	1.4750	-.00295	5.2262
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	**.23439**	**.00355**	**314.31**	**-.01459**	**.00116**	**23.055**	**.00228**	**.10539**	**.00180**
Stddev	.00018	.00019	.15	.00081	.00013	.120	.00028	.00033	.00039
%RSD	.07753	5.3655	.04747	5.5729	10.878	.51952	12.439	.31054	21.753
#1	.23427	.00342	314.21	-.01402	.00125	22.971	.00208	.10516	.00152
#2	.23452	.00368	314.42	-.01517	.00107	23.140	.00248	.10562	.00207
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	**-.00884**	**.01447**	**.70376**
Stddev	.00190	.00055	.00849
%RSD	21.507	3.8312	1.2065
#1	-.00750	.01407	.69775
#2	-.01019	.01486	.70976
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	**962.32**	**5609.4**	**45126.**	**7255.9**
Stddev	4.68	2.0	156.	33.2
%RSD	.48629	.03479	.34600	.45741
#1	965.63	5610.8	45237.	7279.3
#2	959.01	5608.0	45016.	7232.4

Sample Name: 480-58939-A-9-Asd@5 Acquired: 5/1/2014 20:17:31 Type: Unk
Method: ICAP 2 March 2014(v59) 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	**-.00082**	**23.141**	**.00321**	**-.00088**	**.00328**	**.00373**	**2.2313**	**-.00035**	**.02823**
Stddev	.00032	.301	.00099	.00051	.00005	.00020	.0062	.00001	.00020
%RSD	38.618	1.2991	30.945	57.729	1.4077	5.3439	.27889	3.3284	.69339
#1	-.00060	23.353	.00391	-.00052	.00332	.00387	2.2269	-.00034	.02837
#2	-.00105	22.928	.00250	-.00123	.00325	.00359	2.2357	-.00036	.02809
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	**-.00015**	**.00075**	**36.087**	**.50010**	**.02535**	**6.5283**	**.33523**	**-.00095**	**1.2251**
Stddev	.00004	.00030	.400	.01392	.00023	.0282	.00099	.00011	.0159
%RSD	28.062	40.012	1.1086	2.7834	.89386	.43132	.29410	11.085	1.2962
#1	-.00012	.00054	36.370	.50995	.02519	6.5482	.33453	-.00103	1.2138
#2	-.00018	.00096	35.804	.49026	.02551	6.5084	.33593	-.00088	1.2363
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	**.04432**	**.00004**	**71.638**	**-.00389**	**.00187**	**5.1481**	**.00012**	**.02364**	**.00021**
Stddev	.00002	.00036	.018	.00021	.00247	.0242	.00022	.00012	.00013
%RSD	.05383	924.81	.02518	5.3879	132.43	.46973	186.03	.52306	63.236
#1	.04430	.00030	71.626	-.00374	.00362	5.1310	-.00004	.02373	.00031
#2	.04434	-.00022	71.651	-.00403	.00012	5.1652	.00027	.02355	.00012
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	**-.00107**	**.00313**	**.15895**
Stddev	.00032	.00117	.00005
%RSD	30.421	37.515	.02985
#1	-.00130	.00396	.15892
#2	-.00084	.00230	.15899
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	**1039.0**	**5007.8**	**40601.**	**6328.9**
Stddev	1.5	7.5	251.	82.9
%RSD	.14512	.15055	.61878	1.3092
#1	1038.0	5002.4	40779.	6270.3
#2	1040.1	5013.1	40424.	6387.5

Sample Name: 480-58939-A-9-A pds Acquired: 5/1/2014 20:20:13 Type: Unk
Method: ICAP 2 March 2014(v59) 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	**.04149**	**109.63**	**.19380**	**.17069**	**.18539**	**.18733**	**17.689**	**.17104**	**.34544**
Stddev	.00040	.05	.00058	.00025	.00073	.00043	.010	.00001	.00032
%RSD	.96729	.04743	.30110	.14743	.39232	.23188	.05375	.00481	.09399
#1	.04121	109.66	.19421	.17087	.18487	.18763	17.682	.17104	.34521
#2	.04177	109.59	.19338	.17051	.18590	.18702	17.696	.17105	.34567
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	**.17040**	**.17902**	**164.39**	**10.961**	**.28383**	**36.022**	**1.6034**	**.16464**	**13.786**
Stddev	.00138	.00165	.02	.011	.00124	.048	.0013	.00006	.003
%RSD	.80869	.92105	.01026	.09992	.43574	.13342	.08327	.03610	.02370
#1	.17137	.18019	164.41	10.953	.28296	35.988	1.6025	.16469	13.789
#2	.16942	.17785	164.38	10.969	.28471	36.056	1.6044	.16460	13.784
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	**.43248**	**.20419**	**309.75**	**.15413**	**.17759**	**31.228**	**.15865**	**.27152**	**.16813**
Stddev	.00065	.00080	.18	.00021	.00076	.023	.00046	.00013	.00115
%RSD	.14986	.38946	.05829	.13467	.42764	.07272	.28849	.04933	.68409
#1	.43202	.20363	309.62	.15427	.17813	31.211	.15833	.27143	.16894
#2	.43294	.20475	309.88	.15398	.17705	31.244	.15898	.27162	.16732
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	**.18370**	**.18753**	**.86331**
Stddev	.00055	.00166	.00403
%RSD	.30200	.88662	.46701
#1	.18409	.18871	.86616
#2	.18331	.18636	.86046
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	**944.56**	**5521.9**	**44637.**	**7063.3**
Stddev	.64	1.0	45.	10.6
%RSD	.06752	.01878	.10188	.15067
#1	945.01	5522.6	44669.	7055.7
#2	944.11	5521.1	44605.	7070.8

Sample Name: 480-58939-A-9-B MS Acquired: 5/1/2014 20:22:45 Type: Unk
Method: ICAP 2 March 2014(v59) 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	**.04105**	**110.77**	**.19076**	**.16360**	**.18126**	**.18328**	**17.569**	**.16621**	**.34274**
Stddev	.00050	.03	.00198	.00016	.00009	.00025	.020	.00013	.00027
%RSD	1.2214	.02737	1.0376	.09757	.04729	.13743	.11163	.08110	.07796
#1	.04141	110.75	.18936	.16349	.18120	.18345	17.583	.16611	.34255
#2	.04070	110.79	.19216	.16372	.18132	.18310	17.555	.16630	.34293
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	**.16659**	**.17557**	**165.54**	**10.683**	**.28143**	**36.120**	**1.6251**	**.15973**	**13.590**
Stddev	.00048	.00046	.05	.004	.00009	.016	.0004	.00042	.014
%RSD	.28583	.26032	.03254	.03561	.03372	.04565	.02179	.26251	.10251
#1	.16692	.17590	165.50	10.686	.28137	36.108	1.6249	.15943	13.580
#2	.16625	.17525	165.57	10.680	.28150	36.131	1.6254	.16002	13.600
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	**.43198**	**.19821**	**320.88**	**.14820**	**.17234**	**30.748**	**.19034**	**.26759**	**.16496**
Stddev	.00102	.00125	.29	.00243	.00260	.000	.00063	.00018	.00007
%RSD	.23540	.63189	.09192	1.6414	1.5085	.00144	.32988	.06630	.04437
#1	.43126	.19909	321.09	.14992	.17417	30.749	.18989	.26771	.16491
#2	.43270	.19732	320.67	.14648	.17050	30.748	.19078	.26746	.16501
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	**.18100**	**.18407**	**.86988**
Stddev	.00150	.00019	.00131
%RSD	.82705	.10374	.15092
#1	.17994	.18393	.86895
#2	.18206	.18420	.87081
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	**946.25**	**5568.5**	**44728.**	**7126.6**
Stddev	1.08	.7	68.	24.1
%RSD	.11379	.01281	.15094	.33869
#1	945.49	5568.0	44776.	7143.6
#2	947.01	5569.0	44680.	7109.5

Sample Name: 480-58939-A-9-C MSD Acquired: 5/1/2014 20:25:17 Type: Unk
Method: ICAP 2 March 2014(v59) 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	.04160	111.82	.19296	.16466	.18237	.18445	17.704	.16767	.34621
Stddev	.00051	.38	.00088	.00025	.00019	.00045	.058	.00006	.00014
%RSD	1.2278	.33709	.45714	.15419	.10322	.24368	.32767	.03336	.03902
#1	.04124	112.08	.19234	.16448	.18224	.18477	17.745	.16763	.34630
#2	.04196	111.55	.19358	.16484	.18251	.18413	17.663	.16771	.34611
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	.16664	.17609	167.44	10.759	.28085	36.522	1.6352	.16125	13.769
Stddev	.00059	.00049	.39	.003	.00110	.022	.0013	.00012	.017
%RSD	.35321	.28068	.23139	.02746	.39119	.05933	.07862	.07539	.12400
#1	.16622	.17644	167.71	10.761	.28163	36.537	1.6361	.16134	13.781
#2	.16706	.17574	167.16	10.756	.28008	36.506	1.6343	.16117	13.757
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	.43419	.20133	325.37	.14959	.17838	31.063	.19230	.26988	.16510
Stddev	.00011	.00192	.11	.00192	.00151	.005	.00012	.00024	.00090
%RSD	.02574	.95415	.03299	1.2835	.84516	.01765	.06127	.08803	.54509
#1	.43426	.20269	325.45	.15095	.17732	31.059	.19222	.26972	.16574
#2	.43411	.19997	325.29	.14824	.17945	31.067	.19238	.27005	.16447
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	.18392	.18410	.87668
Stddev	.00083	.00067	.00366
%RSD	.45317	.36560	.41799
#1	.18451	.18458	.87927
#2	.18333	.18363	.87409
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	948.07	5569.9	44835.	7124.3
Stddev	1.33	5.3	7.	24.9
%RSD	.13998	.09508	.01583	.34912
#1	949.01	5573.6	44840.	7106.7
#2	947.13	5566.1	44830.	7141.9

Sample Name: 480-58939-A-10-A Acquired: 5/1/2014 20:27:48 Type: Unk
Method: ICAP 2 March 2014(v59) 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**	**1.0928**	**.00149**	**.17674**	**.04112**	**.00003**	**34.327**	**-.00036**	**.00909**
Stddev	.00060	.0262	.00046	.00097	.00009	.00004	.625	.00002	.00016
%RSD	1742.0	2.3937	30.777	.55125	.21212	145.02	1.8196	5.0266	1.7460
#1	.00046	1.1113	.00182	.17605	.04106	.00006	34.769	-.00037	.00897
#2	-.00039	1.0743	.00117	.17742	.04118	.00000	33.886	-.00034	.00920
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	**.00363**	**.00523**	**22.402**	**5.0670**	**.00814**	**8.6119**	**.97671**	**-.00038**	**71.833**
Stddev	.00011	.00022	.457	.0245	.00283	.0416	.00215	.00022	.239
%RSD	3.0559	4.2721	2.0404	.48402	34.768	.48336	.22045	59.000	.33283
#1	.00371	.00507	22.725	5.0844	.00614	8.6414	.97519	-.00053	72.002
#2	.00355	.00539	22.079	5.0497	.01014	8.5825	.97823	-.00022	71.664
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	**.01486**	**.00218**	**26.415**	**-.00224**	**.00039**	**4.3015**	**-.00045**	**.24373**	**.02554**
Stddev	.00031	.00006	.205	.00017	.00038	.0126	.00009	.00501	.00085
%RSD	2.0772	2.6075	.77450	7.6936	96.537	.29374	19.942	2.0541	3.3468
#1	.01464	.00222	26.270	-.00212	.00012	4.3104	-.00052	.24727	.02614
#2	.01507	.00214	26.560	-.00236	.00066	4.2926	-.00039	.24019	.02493
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	**.00060**	**.00730**	**.16317**
Stddev	.00017	.00105	.00030
%RSD	28.747	14.444	.18480
#1	.00048	.00804	.16295
#2	.00073	.00655	.16338
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	**971.48**	**4637.1**	**38522.**	**6146.1**
Stddev	2.78	26.9	128.	114.2
%RSD	.28635	.57983	.33186	1.8575
#1	973.45	4656.1	38612.	6065.4
#2	969.52	4618.1	38431.	6226.9

Sample Name: 480-58939-A-11-A Acquired: 5/1/2014 20:30:28 Type: Unk
Method: ICAP 2 March 2014(v59) 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**	**.25651**	**-.00146**	**.92779**	**.06731**	**-.00004**	**21.071**	**-.00040**	**.00000**
Stddev	.00044	.02029	.00034	.00472	.00003	.00015	.028	.00014	.00021
%RSD	115.42	7.9111	22.917	.50852	.04926	338.36	.13521	35.244	6844.3
#1	.00007	.27085	-.00123	.93113	.06733	-.00015	21.091	-.00030	-.00015
#2	.00070	.24216	-.00170	.92445	.06729	.00006	21.051	-.00049	.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	**.00204**	**.00061**	**16.373**	**62.219**	**.00555**	**11.254**	**.28194**	**-.00075**	**47.700**
Stddev	.00002	.00034	.074	.239	.00212	.079	.00098	.00001	.114
%RSD	.73636	56.476	.45420	.38336	38.115	.69831	.34785	1.1708	.23853
#1	.00205	.00085	16.425	62.388	.00705	11.309	.28125	-.00074	47.780
#2	.00203	.00037	16.320	62.050	.00406	11.198	.28264	-.00075	47.619
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	**.00414**	**.00044**	**1.2210**	**-.00176**	**-.00053**	**1.2313**	**-.00007**	**.13035**	**.00659**
Stddev	.00004	.00027	.0590	.00055	.00014	.0133	.00027	.00041	.00119
%RSD	1.0570	62.058	4.8321	31.185	25.545	1.0783	393.84	.31458	18.093
#1	.00417	.00064	1.2627	-.00215	-.00063	1.2407	.00012	.13064	.00744
#2	.00411	.00025	1.1792	-.00137	-.00044	1.2219	-.00026	.13006	.00575
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	**-.00214**	**.02893**	**.00394**
Stddev	.00110	.00058	.00006
%RSD	51.663	2.0135	1.4780
#1	-.00136	.02934	.00390
#2	-.00292	.02852	.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	**960.09**	**4619.1**	**37513.**	**6024.2**
Stddev	4.18	20.6	108.	31.1
%RSD	.43534	.44507	.28811	.51696
#1	957.13	4604.6	37589.	6002.2
#2	963.04	4633.6	37437.	6046.2

Sample Name: 480-58939-A-12-A Acquired: 5/1/2014 20:33:10 Type: Unk
Method: ICAP 2 March 2014(v59) 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**	**26.360**	**.02253**	**.06746**	**.27585**	**.00406**	**29.236**	**.00136**	**.03806**
Stddev	.00047	.183	.00041	.00009	.00114	.00010	.309	.00025	.00021
%RSD	101.97	.69553	1.8146	.13955	.41369	2.4688	1.0566	18.278	.55546
#1	.00013	26.490	.02224	.06740	.27504	.00399	29.454	.00119	.03791
#2	.00079	26.230	.02281	.06753	.27665	.00413	29.017	.00154	.03821
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	**.08787**	**.04952**	**43.035**	**6.7532**	**.04271**	**11.474**	**1.3456**	**.00000**	**3.9427**
Stddev	.00109	.00035	.519	.0327	.00020	.024	.0052	.0003	.0144
%RSD	1.2413	.70737	1.2061	.48478	.46975	.20853	.38765	5512.9	.36568
#1	.08710	.04927	43.402	6.7301	.04257	11.457	1.3419	.00018	3.9325
#2	.08864	.04977	42.668	6.7764	.04285	11.491	1.3493	-.00019	3.9529
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	**.06355**	**.04762**	**26.411**	**-.00223**	**.00098**	**24.803**	**.00177**	**.28424**	**.40737**
Stddev	.00022	.00006	.028	.00104	.00389	.033	.00022	.00313	.01114
%RSD	.35386	.12654	.10745	46.490	396.55	.13121	12.613	1.0997	2.7354
#1	.06339	.04758	26.431	-.00150	.00374	24.780	.00193	.28645	.41525
#2	.06371	.04766	26.391	-.00296	-.00177	24.826	.00161	.28203	.39949
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	**-.00199**	**.06214**	**.62177**
Stddev	.00091	.00013	.00598
%RSD	45.542	.21095	.96240
#1	-.00264	.06205	.61754
#2	-.00135	.06223	.62600
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	**1001.6**	**4900.4**	**40172.**	**6331.7**
Stddev	1.3	1.1	141.	34.3
%RSD	.12492	.02203	.35014	.54195
#1	1002.5	4901.2	40271.	6307.4
#2	1000.7	4899.7	40072.	6355.9

Sample Name: CCV Acquired: 5/1/2014 20:35:49 Type: QC
Method: ICAP 2 March 2014(v59) 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	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.49871	24.982	.51026	.50257	.50912	.49296	24.485	.50458	.49732	.50435	.51275	23.890	25.742
Stddev	.00148	.350	.00456	.00351	.00718	.00679	.393	.00396	.00387	.00008	.00118	.299	.374
%RSD	.29608	1.4013	.89400	.69874	1.4101	1.3772	1.6044	.78512	.77819	.01609	.22973	1.2527	1.4522
#1	.49766	25.230	.51349	.50506	.50405	.49776	24.763	.50738	.50005	.50429	.51191	24.102	26.007
#2	.49975	24.735	.50704	.50009	.51420	.48816	24.207	.50178	.49458	.50441	.51358	23.679	25.478
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
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	.53351	25.662	.52603	.51737	25.856	.51206	.50597	24.599	.52230	.50896	24.323	.50051	.50766
Stddev	.00198	.049	.00009	.00366	.246	.00426	.00677	.182	.00039	.00040	.098	.00310	.00597
%RSD	.37182	.18923	.01663	.70760	.95250	.83238	1.3381	.74104	.07530	.07862	.40157	.62011	1.1759
#1	.53491	25.628	.52609	.51996	26.030	.51507	.51076	24.728	.52258	.50925	24.392	.50271	.51188
#2	.53211	25.696	.52597	.51479	25.682	.50905	.50118	24.470	.52202	.50868	24.253	.49832	.50344
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
Value													
Range													

Elem	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm
Avg	.51327	.49998	.50665	.51728
Stddev	.00054	.00044	.00106	.00185
%RSD	.10466	.08834	.20831	.35846
#1	.51289	.49967	.50590	.51597
#2	.51365	.50029	.50739	.51859
Check ?	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	968.34	4702.3	37922.	5994.5
Stddev	4.81	22.4	14.	111.4
%RSD	.49626	.47623	.03632	1.8586
#1	964.94	4686.5	37931.	5915.7
#2	971.74	4718.2	37912.	6073.3

Sample Name: CCB Acquired: 5/1/2014 20:38:24 Type: QC
Method: ICAP 2 March 2014(v59) 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	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00018**	**-.00509**	**-.00121**	**-.00084**	**.00002**	**.00005**	**-.00344**	**-.00039**	**-.00037**	**-.00009**	**-.00003**	**.00507**	**-.00957**
Stddev	.00021	.03209	.00142	.00004	.00001	.00003	.00273	.00008	.00006	.00011	.00020	.00310	.02187
%RSD	121.56	630.61	117.09	4.7103	67.293	54.205	79.403	20.721	16.500	123.17	787.18	61.214	228.37
#1	-.00033	.01760	-.00021	-.00087	.00001	.00003	-.00151	-.00033	-.00032	-.00017	.00012	.00727	-.02504
#2	-.00002	-.02778	-.00222	-.00081	.00003	.00007	-.00537	-.00045	-.00041	-.00001	-.00017	.00288	.00589
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
High Limit													
Low Limit													

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	**.00070**	**-.00062**	**.00004**	**-.00038**	**.03934**	**-.00038**	**.00076**	**.01794**	**-.00060**	**.00211**	**-.03015**	**-.00097**	**.00009**
Stddev	.00073	.00623	.00002	.00032	.00745	.00024	.00088	.00242	.00063	.00230	.00388	.00021	.00006
%RSD	103.19	1000.2	56.120	83.886	18.927	65.228	116.44	13.481	105.16	108.54	12.862	22.030	62.199
#1	.00122	-.00502	.00006	-.00015	.03407	-.00020	.00138	.01965	-.00105	.00374	-.02741	-.00082	.00013
#2	.00019	.00378	.00003	-.00060	.04460	-.00055	.00013	.01623	-.00015	.00049	-.03290	-.00112	.00005
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
High Limit													
Low Limit													

Elem	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm
Avg	**.00045**	**-.00089**	**.00058**	**.00042**
Stddev	.00027	.00081	.00019	.00050
%RSD	60.793	90.750	32.889	119.19
#1	.00026	-.00147	.00044	.00007
#2	.00064	-.00032	.00071	.00077
Check ?	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	**1069.8**	**4808.9**	**39374.**	**6021.2**
Stddev	3.8	6.3	265.	12.2
%RSD	.35145	.13029	.67209	.20263
#1	1072.5	4804.5	39561.	6012.6
#2	1067.2	4813.3	39187.	6029.9

Sample Name: CCVL Acquired: 5/1/2014 20:41:09 Type: QC
Method: ICAP 2 March 2014(v59) 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	.00518	.18645	.01223	.01882	.00226	.00185	.45761	.00158	.00337	.00360	.00942	.04460
Stddev	.00025	.03082	.00127	.00024	.00005	.00007	.00156	.00012	.00013	.00012	.00037	.00399
%RSD	4.8223	16.532	10.358	1.2862	2.3820	3.5834	.34069	7.3668	3.7833	3.2160	3.8897	8.9529
#1	.00535	.16465	.01133	.01899	.00230	.00190	.45651	.00150	.00347	.00368	.00968	.04178
#2	.00500	.20825	.01313	.01865	.00222	.00181	.45871	.00166	.00328	.00352	.00916	.04743
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	.48394	.03259	.19287	.00296	.00936	1.0136	.00867	.00907	F .02065	.01764	.02220	.42848
Stddev	.03528	.00108	.00288	.00006	.00027	.0006	.00026	.00115	.00608	.00045	.00359	.00584
%RSD	7.2911	3.2988	1.4958	2.0121	2.8773	.06027	3.0515	12.707	29.435	2.5792	16.153	1.3631
#1	.45899	.03183	.19491	.00300	.00955	1.0132	.00886	.00988	.01636	.01796	.01966	.42435
#2	.50889	.03335	.19083	.00292	.00917	1.0140	.00848	.00825	.02495	.01732	.02473	.43261
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
Value									.20000			
Range									-50.000%			

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00788	.00483	.00488	.01804	.00490	.00981
Stddev	.00022	.00017	.00056	.00123	.00040	.00006
%RSD	2.8425	3.6046	11.545	6.8241	8.0755	.65968
#1	.00773	.00495	.00528	.01717	.00518	.00977
#2	.00804	.00471	.00448	.01891	.00462	.00986
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	1075.6	4878.9	39969.	6068.7
Stddev	1.5	11.8	44.	38.5
%RSD	.13481	.24282	.11101	.63446
#1	1074.6	4870.5	40000.	6041.5
#2	1076.6	4887.3	39937.	6095.9

Sample Name: 480-58939-A-13-A Acquired: 5/1/2014 20:43:54 Type: Unk
Method: ICAP 2 March 2014(v59) 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**	**-.02860**	**.00017**	**.01115**	**.08616**	**-.00011**	**18.525**	**-.00043**	**-.00040**
Stddev	.00055	.00197	.00043	.00014	.00002	.00005	.159	.00034	.00007
%RSD	127.51	6.8767	257.12	1.2417	.02247	42.538	.85580	78.331	18.554
#1	.00082	-.02999	-.00014	.01105	.08617	-.00008	18.637	-.00067	-.00035
#2	.00004	-.02721	.00047	.01125	.08614	-.00014	18.412	-.00019	-.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	**.00019**	**.00064**	**4.8327**	**2.2030**	**.04897**	**13.142**	**.11435**	**-.00043**	**9.6342**
Stddev	.00011	.00057	.0147	.0077	.00188	.033	.00056	.00021	.0582
%RSD	56.250	88.605	.30484	.35137	3.8351	.25444	.49377	48.996	.60394
#1	.00027	.00105	4.8223	2.2084	.05029	13.119	.11395	-.00028	9.6753
#2	.00012	.00024	4.8431	2.1975	.04764	13.166	.11475	-.00058	9.5930
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	**-.00005**	**.00144**	**3.2960**	**-.00062**	**.00069**	**7.6540**	**-.00071**	**.09677**	**.00016**
Stddev	.00005	.00016	.0217	.00076	.00202	.0284	.00005	.00019	.00072
%RSD	93.824	10.801	.65828	123.58	291.10	.37135	7.6899	.19534	444.68
#1	-.00002	.00155	3.2806	-.00008	.00212	7.6339	-.00074	.09664	.00067
#2	-.00008	.00133	3.3113	-.00116	-.00073	7.6741	-.00067	.09691	-.00035
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	**-.00024**	**.00078**	**.00302**
Stddev	.00043	.00031	.00001
%RSD	175.88	40.152	.19345
#1	.00006	.00100	.00301
#2	-.00054	.00055	.00302
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	**1017.4**	**4705.8**	**38956.**	**6094.9**
Stddev	6.3	21.5	17.	7.5
%RSD	.61474	.45588	.04299	.12229
#1	1021.8	4720.9	38944.	6089.6
#2	1012.9	4690.6	38967.	6100.2

Sample Name: blank Acquired: 5/1/2014 20:46:36 Type: Unk
Method: ICAP 2 March 2014(v59) 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**	**.00019**	**-.00176**	**-.00177**	**.00027**	**-.00002**	**-.00554**	**-.00046**	**-.00044**
Stddev	.00051	.01812	.00037	.00034	.00001	.00002	.00023	.00010	.00003
%RSD	316.41	9361.0	20.903	19.000	3.4173	84.386	4.0796	22.532	6.0309
#1	-.00052	-.01262	-.00150	-.00154	.00027	-.00003	-.00538	-.00039	-.00046
#2	.00020	.01301	-.00202	-.00201	.00026	-.00001	-.00570	-.00054	-.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	**-.00023**	**-.00009**	**-.00134**	**-.01725**	**.00301**	**.00525**	**-.00004**	**-.00064**	**.03857**
Stddev	.00001	.00024	.00001	.00039	.00131	.00505	.00000	.00003	.00479
%RSD	4.7763	271.61	.42055	2.2599	43.606	96.164	.28341	3.8912	12.413
#1	-.00024	.00008	-.00134	-.01698	.00208	.00168	-.00004	-.00063	.03519
#2	-.00022	-.00026	-.00135	-.01753	.00394	.00882	-.00004	-.00066	.04196
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**	**.00023**	**.00592**	**.00009**	**-.00069**	**-.05636**	**-.00111**	**-.00006**	**.00048**
Stddev	.00046	.00031	.00147	.00095	.00320	.01921	.00006	.00015	.00010
%RSD	73.188	134.74	24.891	1098.3	464.46	34.086	5.6748	278.95	20.213
#1	-.00030	.00001	.00696	.00076	.00158	-.04277	-.00116	.00005	.00041
#2	-.00096	.00045	.00488	-.00058	-.00296	-.06994	-.00107	-.00016	.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	**-.00011**	**.00061**	**.00036**
Stddev	.00052	.00008	.00026
%RSD	453.63	12.560	73.011
#1	.00025	.00055	.00017
#2	-.00048	.00066	.00054
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	**1073.3**	**4831.8**	**39887.**	**6053.8**
Stddev	2.7	7.8	59.	110.8
%RSD	.25546	.16228	.14797	1.8298
#1	1071.3	4826.2	39929.	5975.5
#2	1075.2	4837.3	39845.	6132.2

Sample Name: CCVL Acquired: 5/1/2014 20:49:21 Type: QC
Method: ICAP 2 March 2014(v59) 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	**.00533**	**.16958**	**.01150**	**.01820**	**.00232**	**.00182**	**.46300**	**.00148**	**.00336**	**.00326**	**.00924**	**.04404**
Stddev	.00019	.01756	.00160	.00024	.00002	.00004	.00236	.00024	.00015	.00074	.00006	.00024
%RSD	3.5350	10.355	13.921	1.2984	.78376	2.2763	.50981	15.996	4.3569	22.684	.62618	.54742
#1	.00519	.18199	.01263	.01803	.00234	.00179	.46133	.00165	.00325	.00273	.00928	.04387
#2	.00546	.15716	.01036	.01837	.00231	.00185	.46467	.00131	.00346	.00378	.00920	.04422
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	**.46991**	**.03263**	**.19383**	**.00287**	**.00937**	**1.0256**	**.00876**	**.00941**	F **.00452**	**.01840**	**.02491**	**.42531**
Stddev	.02315	.00009	.00373	.00002	.00007	.0161	.00009	.00007	.00003	.00116	.00054	.00978
%RSD	4.9268	.28622	1.9220	.65011	.70223	1.5739	1.0728	.69147	.73001	6.3050	2.1508	2.2986
#1	.48628	.03257	.19646	.00286	.00933	1.0142	.00869	.00936	.00454	.01758	.02529	.41840
#2	.45354	.03270	.19119	.00288	.00942	1.0371	.00883	.00946	.00450	.01922	.02453	.43222
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
Value									.20000			
Range									-50.000%			

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00791**	**.00485**	**.00481**	**.01812**	**.00473**	**.00946**
Stddev	.00023	.00009	.00010	.00026	.00015	.00001
%RSD	2.8517	1.7588	2.1063	1.4610	3.1336	.14760
#1	.00807	.00479	.00488	.01830	.00463	.00947
#2	.00775	.00491	.00474	.01793	.00484	.00945
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	**1079.1**	**4867.5**	**40013.**	**6106.1**
Stddev	3.8	5.1	10.	66.2
%RSD	.34832	.10512	.02494	1.0842
#1	1076.5	4863.8	40006.	6059.2
#2	1081.8	4871.1	40021.	6152.9

Sample Name: CCV Acquired: 5/1/2014 20:52:07 Type: QC
Method: ICAP 2 March 2014(v59) 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	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.49817	24.809	.51156	.50492	.51532	.49152	24.550	.50940	.50292	.50476	.51360	23.861	25.741
Stddev	.00005	.050	.00076	.00174	.00296	.00192	.098	.00037	.00303	.00019	.00042	.102	.019
%RSD	.00925	.19955	.14760	.34535	.57354	.39092	.39988	.07174	.60241	.03691	.08187	.42703	.07265
#1	.49820	24.844	.51102	.50616	.51741	.49288	24.620	.50914	.50078	.50489	.51330	23.933	25.754
#2	.49814	24.774	.51209	.50369	.51323	.49016	24.481	.50965	.50506	.50463	.51389	23.789	25.728
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
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	.53650	25.729	.52678	.52033	25.806	.51500	.50599	24.815	.52366	.50577	24.364	.50090	.50657
Stddev	.00191	.014	.00037	.00191	.121	.00111	.00099	.041	.00417	.00508	.111	.00205	.00121
%RSD	.35565	.05563	.07049	.36745	.46747	.21577	.19653	.16628	.79613	1.0038	.45712	.40966	.23930
#1	.53515	25.739	.52704	.52168	25.892	.51578	.50670	24.786	.52661	.50936	24.286	.50235	.50742
#2	.53784	25.719	.52651	.51897	25.721	.51421	.50529	24.844	.52071	.50218	24.443	.49945	.50571
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
Value													
Range													

Elem	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm
Avg	.51583	.50219	.50675	.51999
Stddev	.00059	.00137	.00029	.00271
%RSD	.11419	.27268	.05665	.52041
#1	.51542	.50316	.50655	.52191
#2	.51625	.50122	.50696	.51808
Check ?	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	967.22	4708.8	38226.	5993.3
Stddev	6.75	8.5	71.	15.4
%RSD	.69746	.18063	.18589	.25667
#1	971.99	4714.8	38176.	5982.5
#2	962.45	4702.8	38276.	6004.2

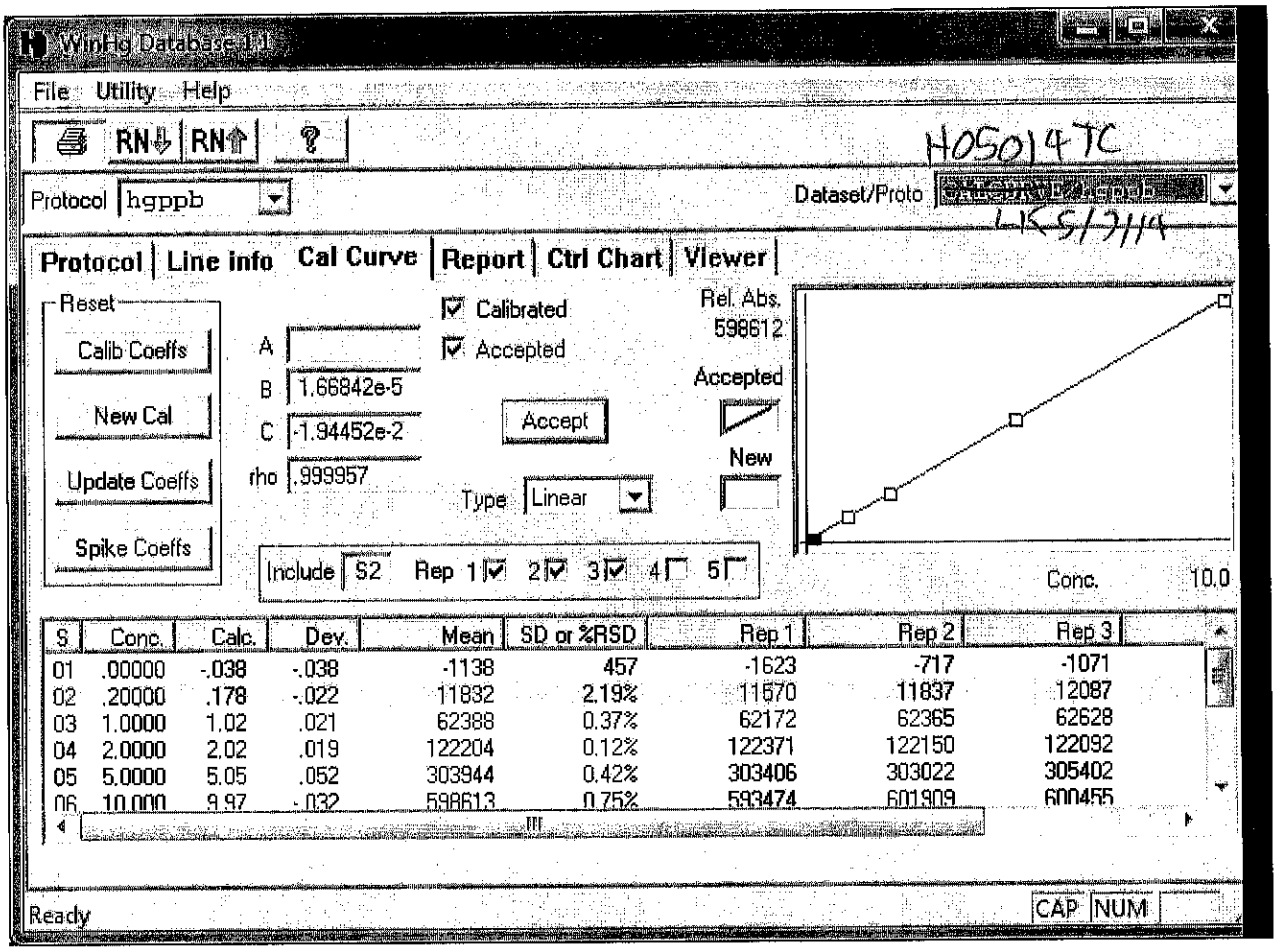
Sample Name: CCB Acquired: 5/1/2014 20:54:52 Type: QC
Method: ICAP 2 March 2014(v59) Mode: CONC Corr. Factor: 1.000000
User: JRK Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00011**	**-.01998**	**-.00238**	**-.00096**	**.00001**	**-.00004**	**-.00168**	**-.00040**	**-.00038**	**-.00014**	**-.00009**	**.00060**	**-.02679**
Stddev	.00040	.00706	.00061	.00027	.00004	.00008	.00433	.00011	.00019	.00032	.00023	.00276	.03732
%RSD	349.95	35.327	25.598	27.756	384.43	180.41	257.13	26.881	49.664	229.63	261.20	459.08	139.30
#1	.00017	-.01499	-.00195	-.00077	-.00002	.00001	.00138	-.00048	-.00025	-.00037	.00007	.00255	-.05317
#2	-.00040	-.02497	-.00281	-.00115	.00004	-.00010	-.00474	-.00033	-.00051	.00009	-.00025	-.00135	-.00040
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
High Limit													
Low Limit													

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	**.00252**	**.00047**	**-.00006**	**-.00014**	**.04948**	**-.00050**	**-.00018**	**.00047**	**-.00116**	**.00259**	**-.04142**	**-.00067**	**.00007**
Stddev	.00039	.00094	.00002	.00017	.00633	.00024	.00116	.00315	.00078	.00468	.00952	.00052	.00011
%RSD	15.543	199.09	29.675	123.07	12.797	48.429	652.18	667.18	66.872	180.97	22.978	78.219	158.43
#1	.00224	-.00019	-.00005	-.00027	.05396	-.00067	-.00100	.00270	-.00171	-.00072	-.04815	-.00104	-.00001
#2	.00280	.00114	-.00007	-.00002	.04500	-.00033	.00064	-.00176	-.00061	.00590	-.03469	-.00030	.00014
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
High Limit													
Low Limit													

Elem	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm
Avg	**.00051**	**-.00091**	**.00030**	**-.00013**
Stddev	.00011	.00070	.00041	.00001
%RSD	20.970	77.369	137.35	6.7963
#1	.00058	-.00041	.00001	-.00014
#2	.00043	-.00140	.00058	-.00013
Check ?	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	**1079.4**	**4839.0**	**39853.**	**6095.3**
Stddev	7.6	4.9	133.	61.4
%RSD	.70236	.10040	.33329	1.0081
#1	1084.8	4842.5	39947.	6051.8
#2	1074.0	4835.6	39759.	6138.7



L2
5/1/14

179449

Cal: H05014C1
Run: H05014TC
Batch 179227

POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5

179449

*** Check Standard: 2 Ck2ICV Seq: 1 11:22:17 01 May 14 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		97.3	2.92	3.00	ppb	.000

JCB cks/11/14

*** Check Standard: 1 Ck1~~CCB~~ Seq: 2 11:23:53 01 May 14 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.008	.200	ppb	.000

JCVL

*** Check Standard: 4 Ck4~~CCVL~~ Seq: 3 11:25:31 01 May 14 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		103.	.207	.200	ppb	.000

*** Check Standard: 3 Ck3CCV Seq: 4 11:27:57 01 May 14 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		99.4	1.99	2.00	ppb	.000

*** Check Standard: 1 Ck1CCB Seq: 5 11:29:32 01 May 14 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.009	.200	ppb	.000

*** Sample ID: Seq: 6 11:31:19 01 May 14 HG
lb 480-178938/1-c

Hg	-.005	ppb	.000	-.005

*** Sample ID: Seq: 7 11:32:54 01 May 14 HG
mb 480-179227/2-a

Hg	-.008	ppb	.000	-.008

*** Sample ID: Seq: 8 11:34:28 01 May 14 HG
lcs 480-179227/3-a

Hg	2.88	ppb	.000	2.88

*** Sample ID: Seq: 9 11:46:56 01 May 14 HG
480-58755-a-1-h

Hg	-.003	ppb	.000	-.003

*** Sample ID: Seq: 10 11:48:35 01 May 14 HG
480-58755-a-1-hSD@5

Hg	-.018	ppb	.000	-.018

*** Sample ID: Seq: 11 11:50:13 01 May 14 HG
480-58755-a-1-i ms

Hg	3.48	ppb	.000	3.48

*** Sample ID: Seq: 12 11:52:09 01 May 14 HG
480-58755-a-1-j msd

Hg	3.59	ppb	.000	3.59

*** Sample ID: Seq: 13 11:53:44 01 May 14 HG
480-58767-a-1-d

Hg	-.007	ppb	.000	-.007

*** Sample ID: Seq: 14 11:55:22 01 May 14 HG
480-58807-b-1-e

Hg	4.83	ppb	.000	4.83

*** Sample ID: Seq: 15 11:57:01 01 May 14 HG
480-58807-c-2-e

Hg	.083	ppb	.000	.083

Line	Conc.	Units	SD/RSD	1	2	3	4	5	
*** Check Standard: 3 Ck3CCV				Seq: 16		11:58:39 01 May 14			HG
Line	Flag	%Rcv.	Found	True	Units	SD/RSD			
Hg		99.3	1.99	2.00	ppb	.000			
*** Check Standard: 1 Ck1CCB				Seq: 17		12:00:15 01 May 14			HG
Line	Flag	Found	Range(+/-)	Units		SD/RSD			
Hg		-.010	.200	ppb		.000			
*** Sample ID: 480-58807-b-3-e				Seq: 18		12:02:02 01 May 14			HG
Hg	.129	ppb	.000	.129					
*** Sample ID: 480-58807-c-4-e				Seq: 19		12:03:39 01 May 14			HG
Hg	.070	ppb	.000	.070					
*** Check Standard: 3 Ck3CCV				Seq: 20		12:05:18 01 May 14			HG
Line	Flag	%Rcv.	Found	True	Units	SD/RSD			
Hg		99.2	1.98	2.00	ppb	.000			
*** Check Standard: 1 Ck1CCB				Seq: 21		12:06:53 01 May 14			HG
Line	Flag	Found	Range(+/-)	Units		SD/RSD			
Hg		-.008	.200	ppb		.000			
*** Check Standard: 4 Ck4CCVL				Seq: 22		12:08:28 01 May 14			HG
Line	Flag	%Rcv.	Found	True	Units	SD/RSD			
Hg		104.	.209	.200	ppb	.000			

METALS BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1

SDG No.:

Batch Number: 178938 Batch Start Date: 04/29/14 13:39 Batch Analyst: Boyd, Matthew R

Batch Method: 1311 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	EFD_PartSizeRed	EFD_SampleWeight	EFD_VolumeWaterAdd	EFD_InitialpH
LB 480-178938/1		1311, 3010A, 6010C			2000 mL				
480-58807-B-1	P1-1(Sed)	1311, 3010A, 6010C	P	100.82 g	2000 mL	No	5.27 g	96.5 mL	7.52 SU
480-58807-C-2	P1-2(Sed)	1311, 3010A, 6010C	P	100.66 g	2000 mL	No	5.75 g	96.5 mL	7.41 SU
480-58807-B-3	P2-1(Sed)	1311, 3010A, 6010C	P	100.39 g	2000 mL	No	5.20 g	96.5 mL	6.79 SU
480-58807-C-4	P2-2(Sed)	1311, 3010A, 6010C	P	100.17 g	2000 mL	No	5.42 g	96.5 mL	6.60 SU

Lab Sample ID	Client Sample ID	Method Chain	Basis	EFD_AddHClpH>5	EFD_HeatHeld	EFD_SecondpHCheck	ExtractionFluidOne	ExtractionFluidTwo	PartSizeRed
LB 480-178938/1		1311, 3010A, 6010C					Yes	No	
480-58807-B-1	P1-1(Sed)	1311, 3010A, 6010C	P	3.5 mL	Yes	1.27 SU	Yes	No	No
480-58807-C-2	P1-2(Sed)	1311, 3010A, 6010C	P	3.5 mL	Yes	1.29 SU	Yes	No	No
480-58807-B-3	P2-1(Sed)	1311, 3010A, 6010C	P	3.5 mL	Yes	1.17 SU	Yes	No	No
480-58807-C-4	P2-2(Sed)	1311, 3010A, 6010C	P	3.5 mL	Yes	1.21 SU	Yes	No	No

Lab Sample ID	Client Sample ID	Method Chain	Basis	VesselNumber	FiltCompDate	FiltCompTime	LeachatepH	LeachVolume	TCLP%Solids
LB 480-178938/1		1311, 3010A, 6010C		mL	09:52	4/30	4.98 SU	1000/905 mL	
480-58807-B-1	P1-1(Sed)	1311, 3010A, 6010C	P	DC	09:52	4/30	4.99 SU	1000/475 mL	100 %
480-58807-C-2	P1-2(Sed)	1311, 3010A, 6010C	P	OG	09:52	4/30	4.99 SU	1000/605 mL	100 %
480-58807-B-3	P2-1(Sed)	1311, 3010A, 6010C	P	DB	09:52	4/30	4.99 SU	1000/635 mL	100 %
480-58807-C-4	P2-2(Sed)	1311, 3010A, 6010C	P	Y	09:52	4/30	4.99 SU	1000/600 mL	100 %

Lab Sample ID	Client Sample ID	Method Chain	Basis	ExtractFluid					
LB 480-178938/1		1311, 3010A, 6010C		1					

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.: 480-58807-1

SDG No.:

Batch Number: 178938 Batch Start Date: 04/29/14 13:39 Batch Analyst: Boyd, Matthew R

Batch Method: 1311 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	ExtractFluid					
480-58807-B-1	P1-1(Sed)	1311, 3010A, 6010C	P	1					
480-58807-C-2	P1-2(Sed)	1311, 3010A, 6010C	P	1					
480-58807-B-3	P2-1(Sed)	1311, 3010A, 6010C	P	1					
480-58807-C-4	P2-2(Sed)	1311, 3010A, 6010C	P	1					

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.

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1

SDG No.:

Batch Number: 178938 Batch Start Date: 04/29/14 13:39 Batch Analyst: Boyd, Matthew R

Batch Method: 1311 Batch End Date:

Batch Notes	
Balance ID	B037067151
pH Buffer 1 ID	1808926 (10)
pH Buffer 2 ID	1808950 (7)
pH Buffer 3 ID	1808949 (4)
pH Buffer 4 ID	1324094 (2)
First End time	07:36
Final Room Temperature	23.00 Celsius
Initial Room Temperature	21.90 Celsius
pH Meter Calibration Slope	97.6%
Room Temperature during Rotation	21.90-23.00 Degrees C
Room Temperature Thermometer ID	122273689
First Start time	15:36
TCLP Fluid 1 ID	2039360
TCLP Fluid 1 pH	4.98
Temperature	23.00 Celsius
Maximum Temperature	23.00 Celsius
Minimum Temperature	21.90 Degrees C
ID number of the thermometer	12227689
Tumbler Rotations per Minute	30 RPM MRB 4/29/14
Uncorrected Final Room Temperature	22.90 Celsius
Uncorrected Initial Room Temperature	21.80 Celsius
Uncorrected Room Temperature	21.80-22.90 Celsius
Uncorrected Temperature	22.90 Celsius
Uncorrected Maximum Temperature	22.90 Celsius
Uncorrected Minimum Temperature	21.80 Celsius

Basis	Basis Description
P	TCLP

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.: 480-58807-1

SDG No.:

Batch Number: 179139 Batch Start Date: 04/30/14 10:35 Batch Analyst: Donowick, Edward H

Batch Method: 3010A Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	MED_TCLP 00010	MEH_HG_TCLP_W 00047		
LB 480-178938/1-A		3010A, 6010C		50 mL	50 mL				
MB 480-179139/2		3010A, 6010C		50 mL	50 mL				
LCS 480-179139/3		3010A, 6010C		50 mL	50 mL	0.25 mL	0.25 mL		
480-58807-B-1-B	P1-1(Sed)	3010A, 6010C	P	50 mL	50 mL				
480-58807-C-2-B	P1-2(Sed)	3010A, 6010C	P	50 mL	50 mL				
480-58807-B-3-B	P2-1(Sed)	3010A, 6010C	P	50 mL	50 mL				
480-58807-C-4-B	P2-2(Sed)	3010A, 6010C	P	50 mL	50 mL				

Batch Notes	
Batch Comment	spiked and preserved @ 1025, pH<2
First End time	1550
Lot # of hydrochloric acid	1928864
Lot # of Nitric Acid	0000067379
Hot Block ID number	E
Oven, Bath or Block Temperature 1	94.7 Degrees C
Oven, Bath or Block Temperature 2	95.6 Degrees C
Pipette ID	MDL-7
First Start time	1035
ID number of the thermometer	130570431
Digestion Tube/Cup Lot #	1309271
Uncorrected Temperature	94.8 Degrees C
Uncorrected Temperature 2	95.7 Degrees C

Basis	Basis Description
P	TCLP

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.: 480-58807-1

SDG No.:

Batch Number: 178938 Batch Start Date: 04/29/14 13:39 Batch Analyst: Boyd, Matthew R

Batch Method: 1311 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	EFD_PartSizeRed	EFD_SampleWeight	EFD_VolumeWaterAdd	EFD_InitialpH
LB 480-178938/1		1311, 7470A, 7470A			2000 mL				
480-58807-B-1	P1-1(Sed)	1311, 7470A, 7470A	P	100.82 g	2000 mL	No	5.27 g	96.5 mL	7.52 SU
480-58807-C-2	P1-2(Sed)	1311, 7470A, 7470A	P	100.66 g	2000 mL	No	5.75 g	96.5 mL	7.41 SU
480-58807-B-3	P2-1(Sed)	1311, 7470A, 7470A	P	100.39 g	2000 mL	No	5.20 g	96.5 mL	6.79 SU
480-58807-C-4	P2-2(Sed)	1311, 7470A, 7470A	P	100.17 g	2000 mL	No	5.42 g	96.5 mL	6.60 SU

Lab Sample ID	Client Sample ID	Method Chain	Basis	EFD_AddHClpH>5	EFD_HeatHeld	EFD_SecondpHCheck	ExtractionFluidOne	ExtractionFluidTwo	PartSizeRed
LB 480-178938/1		1311, 7470A, 7470A					Yes	No	
480-58807-B-1	P1-1(Sed)	1311, 7470A, 7470A	P	3.5 mL	Yes	1.27 SU	Yes	No	No
480-58807-C-2	P1-2(Sed)	1311, 7470A, 7470A	P	3.5 mL	Yes	1.29 SU	Yes	No	No
480-58807-B-3	P2-1(Sed)	1311, 7470A, 7470A	P	3.5 mL	Yes	1.17 SU	Yes	No	No
480-58807-C-4	P2-2(Sed)	1311, 7470A, 7470A	P	3.5 mL	Yes	1.21 SU	Yes	No	No

Lab Sample ID	Client Sample ID	Method Chain	Basis	VesselNumber	FiltCompDate	FiltCompTime	LeachatepH	LeachVolume	TCLP%Solids
LB 480-178938/1		1311, 7470A, 7470A		mL	09:52	4/30	4.98 SU	1000/905 mL	
480-58807-B-1	P1-1(Sed)	1311, 7470A, 7470A	P	DC	09:52	4/30	4.99 SU	1000/475 mL	100 %
480-58807-C-2	P1-2(Sed)	1311, 7470A, 7470A	P	OG	09:52	4/30	4.99 SU	1000/605 mL	100 %
480-58807-B-3	P2-1(Sed)	1311, 7470A, 7470A	P	DB	09:52	4/30	4.99 SU	1000/635 mL	100 %
480-58807-C-4	P2-2(Sed)	1311, 7470A, 7470A	P	Y	09:52	4/30	4.99 SU	1000/600 mL	100 %

Lab Sample ID	Client Sample ID	Method Chain	Basis	ExtractFluid					
LB 480-178938/1		1311, 7470A, 7470A		1					

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.: 480-58807-1

SDG No.:

Batch Number: 178938 Batch Start Date: 04/29/14 13:39 Batch Analyst: Boyd, Matthew R

Batch Method: 1311 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	ExtractFluid					
480-58807-B-1	P1-1(Sed)	1311, 7470A, 7470A	P	1					
480-58807-C-2	P1-2(Sed)	1311, 7470A, 7470A	P	1					
480-58807-B-3	P2-1(Sed)	1311, 7470A, 7470A	P	1					
480-58807-C-4	P2-2(Sed)	1311, 7470A, 7470A	P	1					

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.

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1

SDG No.:

Batch Number: 178938 Batch Start Date: 04/29/14 13:39 Batch Analyst: Boyd, Matthew R

Batch Method: 1311 Batch End Date:

Batch Notes	
Balance ID	B037067151
pH Buffer 1 ID	1808926 (10)
pH Buffer 2 ID	1808950 (7)
pH Buffer 3 ID	1808949 (4)
pH Buffer 4 ID	1324094 (2)
First End time	07:36
Final Room Temperature	23.00 Celsius
Initial Room Temperature	21.90 Celsius
pH Meter Calibration Slope	97.6%
Room Temperature during Rotation	21.90-23.00 Degrees C
Room Temperature Thermometer ID	122273689
First Start time	15:36
TCLP Fluid 1 ID	2039360
TCLP Fluid 1 pH	4.98
Temperature	23.00 Celsius
Maximum Temperature	23.00 Celsius
Minimum Temperature	21.90 Degrees C
ID number of the thermometer	12227689
Tumbler Rotations per Minute	30 RPM MRB 4/29/14
Uncorrected Final Room Temperature	22.90 Celsius
Uncorrected Initial Room Temperature	21.80 Celsius
Uncorrected Room Temperature	21.80-22.90 Celsius
Uncorrected Temperature	22.90 Celsius
Uncorrected Maximum Temperature	22.90 Celsius
Uncorrected Minimum Temperature	21.80 Celsius

Basis	Basis Description
P	TCLP

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.: 480-58807-1

SDG No.:

Batch Number: 179227 Batch Start Date: 05/01/14 08:50 Batch Analyst: Donowick, Edward H

Batch Method: 7470A Batch End Date: 05/01/14 10:50

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	MEH_HG_TCLP_W 00046			
LB 480-178938/1-A		7470A, 7470A		30 mL	50 mL				
MB 480-179227/2		7470A, 7470A		30 mL	50 mL				
LCS 480-179227/3		7470A, 7470A		30 mL	50 mL	0.15 mL			
480-58807-B-1-B	P1-1(Sed)	7470A, 7470A	P	30 mL	50 mL				
480-58807-C-2-B	P1-2(Sed)	7470A, 7470A	P	30 mL	50 mL				
480-58807-B-3-B	P2-1(Sed)	7470A, 7470A	P	30 mL	50 mL				
480-58807-C-4-B	P2-2(Sed)	7470A, 7470A	P	30 mL	50 mL				

Batch Notes	
Hydroxylamine Hydrochloride Lot	1942442
Batch Comment	Cal Batch: 179449
Sulfuric Acid Lot Number	1947742
Lot # of Nitric Acid	1963359
Hood ID or number	HG-A
Potassium Persulfate Lot Number	1942444
Potassium Permanganate Lot Number	2019119
Oven, Bath or Block Temperature 1	97.0 Celsius
Pipette ID	HGL-5 @ 0830 05/01/2014
Stannous Chloride Lot Number	1980926
ID number of the thermometer	S/N52507
Digestion Tube/Cup Lot #	1306159
Uncorrected Temperature	96.0 Celsius

Basis	Basis Description
P	TCLP

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: 480-58807-1

SDG No.:

Project: Mt Kisco

Client Sample ID	Lab Sample ID
P1-1(Sed)	480-58807-1
P1-2(Sed)	480-58807-2
P2-1(Sed)	480-58807-3
P2-2(Sed)	480-58807-4

Comments:

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: P1-1(Sed) Lab Sample ID: 480-58807-1

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1

SDG ID.:

Matrix: Solid Date Sampled: 04/25/2014 00:00

Reporting Basis: WET Date Received: 04/28/2014 09:30

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
	Cyanide, Reactive	ND	10.0	0.0030	mg/Kg			1	9012
	Sulfide, Reactive	ND	10.0	0.57	mg/Kg			1	9034

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: P1-1(Sed) Lab Sample ID: 480-58807-1

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1

SDG ID.:

Matrix: Solid Date Sampled: 04/25/2014 00:00

Reporting Basis: WET Date Received: 04/28/2014 09:30

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	pH	5.34	0.100		SU			1	9045D
	Flashpoint	>176.0	50.0		Degrees F			1	1010A

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: P1-2(Sed) Lab Sample ID: 480-58807-2

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1

SDG ID.:

Matrix: Solid Date Sampled: 04/25/2014 00:00

Reporting Basis: WET Date Received: 04/28/2014 09:30

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
	Cyanide, Reactive	ND	10.0	0.0030	mg/Kg			1	9012
	Sulfide, Reactive	ND	10.0	0.57	mg/Kg			1	9034

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: P1-2(Sed) Lab Sample ID: 480-58807-2

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1

SDG ID.:

Matrix: Solid Date Sampled: 04/25/2014 00:00

Reporting Basis: WET Date Received: 04/28/2014 09:30

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	pH	5.73	0.100		SU			1	9045D
	Flashpoint	>176.0	50.0		Degrees F			1	1010A

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: P2-1(Sed) Lab Sample ID: 480-58807-3

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1

SDG ID.:

Matrix: Solid Date Sampled: 04/25/2014 00:00

Reporting Basis: WET Date Received: 04/28/2014 09:30

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
	Cyanide, Reactive	ND	10.0	0.0030	mg/Kg			1	9012
	Sulfide, Reactive	ND	10.0	0.57	mg/Kg			1	9034

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: P2-1(Sed) Lab Sample ID: 480-58807-3

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1

SDG ID.:

Matrix: Solid Date Sampled: 04/25/2014 00:00

Reporting Basis: WET Date Received: 04/28/2014 09:30

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	pH	5.82	0.100		SU			1	9045D
	Flashpoint	>176.0	50.0		Degrees F			1	1010A

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: P2-2(Sed) Lab Sample ID: 480-58807-4

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1

SDG ID.:

Matrix: Solid Date Sampled: 04/25/2014 00:00

Reporting Basis: WET Date Received: 04/28/2014 09:30

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
	Cyanide, Reactive	ND	10.0	0.0030	mg/Kg			1	9012
	Sulfide, Reactive	ND	10.0	0.57	mg/Kg			1	9034

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: P2-2(Sed) Lab Sample ID: 480-58807-4

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1

SDG ID.:

Matrix: Solid Date Sampled: 04/25/2014 00:00

Reporting Basis: WET Date Received: 04/28/2014 09:30

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	pH	6.58	0.100		SU			1	9045D
	Flashpoint	>176.0	50.0		Degrees F			1	1010A

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1

SDG No.:

Analyst: LAW Batch Start Date: 05/05/2014

Reporting Units: mg/L Analytical Batch No.: 180033

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
1	CCV	06:26	Cyanide, Reactive	47.60	50.0	95	10-110		FreeCnInt_00017
2	CCB	06:27	Cyanide, Reactive	ND					
13	CCV	06:43	Cyanide, Reactive	48.60	50.0	97	10-110		FreeCnInt_00017
14	CCB	06:45	Cyanide, Reactive	ND					

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

FORM II-IN

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1

SDG No.:

Analyst: LAW Batch Start Date: 05/05/2014

Reporting Units: mg/L Analytical Batch No.: 180094

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
1	CCV	09:30	Sulfide, Reactive	921.7	1000	92	90-110		Sulfide 1000p_00017
2	CCB	09:30	Sulfide, Reactive	ND					
13	CCV	09:30	Sulfide, Reactive	941.8	1000	94	90-110		Sulfide 1000p_00017
14	CCB	09:30	Sulfide, Reactive	ND					

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

FORM II-IN

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1

SDG No.:

Analyst: JMB Batch Start Date: 04/29/2014

Reporting Units: SU Analytical Batch No.: 179029

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
12	CCV	21:50	pH	7.030	7.00	100	99-101		7.0 Buffer_00050

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

FORM II-IN

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1

SDG No.:

Analyst: RP Batch Start Date: 04/30/2014

Reporting Units: Degrees F Analytical Batch No.: 179279

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
9	CCV	09:08	Flashpoint	80.00	81.0	99	97.5-102.5		P-Xylene_00028

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

FORM II-IN

3-IN
METHOD BLANK
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1

SDG No.:

Method	Lab Sample ID	Analyte	Result	Qual	Units	RL	Dil
Batch ID: 180033	Date: 05/05/2014 06:29	Prep Batch: 179770	Date: 05/02/2014 00:50				
9012	MB 480-179770/1-A	Cyanide, Reactive	ND		mg/Kg	10.0	1
Batch ID: 180094	Date: 05/05/2014 09:30	Prep Batch: 179766	Date: 05/02/2014 00:50				
9034	MB 480-179766/1-A	Sulfide, Reactive	ND		mg/Kg	10.0	1

7A-IN
LAB CONTROL SAMPLE
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1

SDG No.:

Matrix: Solid

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 179279	Date: 04/30/2014 09:08										
						LCS Source: P-Xylene_00028					
1010A	LCS 480-179279/1	Flashpoint	80.00		Degrees F	81.0	99	97.5-102.5			
Batch ID: 180033	Date: 05/05/2014 06:30	Prep Batch: 179770	Date: 05/02/2014 00:50								
						LCS Source: WCFreeCN_STK_00032					
9012	LCS 480-179770/2-A	Cyanide, Reactive	303.8		mg/Kg	1000	30	10-100	2	20	
Batch ID: 180094	Date: 05/05/2014 09:30	Prep Batch: 179766	Date: 05/02/2014 00:50								
						LCS Source: Sulfide 1000p_00017					
9034	LCS 480-179766/2-A	Sulfide, Reactive	761.4		mg/Kg	1000	76	10-100	5	20	
Batch ID: 179029	Date: 04/29/2014 21:50										
						LCS Source: 7.0 Buffer_00050					
9045D	LCS 480-179029/1	pH	7.020		SU	7.00	100	99-101			

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

FORM VIIA-IN

7A-IN
LAB CONTROL SAMPLE DUPLICATE
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1

SDG No.:

Matrix: Solid

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 180033	Date: 05/05/2014 06:32		Prep Batch: 179770			Date: 05/02/2014 00:50					
						LCSD Source: WCFreeCN_STK_00032					
9012	LCSD 480-179770/3-A	Cyanide, Reactive	298.8		mg/Kg	1000	30	10-100	2	20	
Batch ID: 180094	Date: 05/05/2014 09:30		Prep Batch: 179766			Date: 05/02/2014 00:50					
						LCSD Source: Sulfide 1000p_00017					
9034	LCSD 480-179766/3-A	Sulfide, Reactive	801.5		mg/Kg	1000	80	10-100	5	20	

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

FORM VIIA-IN

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job Number: 480-58807-1

SDG Number:

Matrix: Solid Instrument ID: NOEQUIP

Method: 9012 MDL Date: 02/05/2010 00:00

Prep Method: 7.3.3

Analyte	Wavelength/ Mass	RL (mg/Kg)	MDL (mg/Kg)
Cyanide, Reactive		10	0.003

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job Number: 480-58807-1

SDG Number:

Matrix: Solid Instrument ID: NOEQUIP

Method: 9012 XMDL Date: 02/05/2010 00:00

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Cyanide, Reactive		10	0.003

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job Number: 480-58807-1

SDG Number:

Matrix: Solid Instrument ID: NOEQUIP

Method: 9034 MDL Date: 09/17/2009 13:21

Prep Method: 7.3.4

Analyte	Wavelength/ Mass	RL (mg/Kg)	MDL (mg/Kg)
Sulfide, Reactive		10	0.57

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job Number: 480-58807-1

SDG Number:

Matrix: Solid Instrument ID: NOEQUIP

Method: 9034 XMDL Date: 09/17/2009 13:22

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Sulfide, Reactive		10	0.57

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job Number: 480-58807-1

SDG Number:

Matrix: Solid Instrument ID: NOEQUIP

Method: 9045D RL Date: 08/09/2009 18:45

Analyte	Wavelength/ Mass	RL (SU)	
pH		0.1	

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job Number: 480-58807-1

SDG Number:

Matrix: Solid Instrument ID: NOEQUIP

Method: 9045D XRL Date: 08/09/2009 18:45

Analyte	Wavelength/ Mass	XRL (SU)	
pH		0.1	

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job Number: 480-58807-1

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: 480-58807-1

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	

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job Number: 480-58807-1

SDG Number:

Matrix: Solid Instrument ID: NOEQUIP

Method: 1010A RL Date: 08/17/2009 09:26

Analyte	Wavelength/ Mass	RL (Degrees F)	
Flashpoint		50	

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job Number: 480-58807-1

SDG Number:

Matrix: Solid Instrument ID: NOEQUIP

Method: 1010A XRL Date: 08/17/2009 09:27

Analyte	Wavelength/ Mass	XRL (Degrees F)	
Flashpoint		50	

12-IN
PREPARATION LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1

SDG No.:

Prep Method: 7.3.3

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 480-179770/1-A	05/02/2014 00:50	179770		5	5
LCS 480-179770/2-A	05/02/2014 00:50	179770		5	5
LCSD 480-179770/3-A	05/02/2014 00:50	179770		5	5
480-58807-1	05/02/2014 00:50	179770		5	5
480-58807-2	05/02/2014 00:50	179770		5	5
480-58807-3	05/02/2014 00:50	179770		5	5
480-58807-4	05/02/2014 00:50	179770		5	5

12-IN
PREPARATION LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1

SDG No.:

Prep Method: 7.3.4

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 480-179766/1-A	05/02/2014 00:50	179766		100	100
LCS 480-179766/2-A	05/02/2014 00:50	179766		100	100
LCSD 480-179766/3-A	05/02/2014 00:50	179766		100	100
480-58807-1	05/02/2014 00:50	179766		100	100
480-58807-2	05/02/2014 00:50	179766		100	100
480-58807-3	05/02/2014 00:50	179766		100	100
480-58807-4	05/02/2014 00:50	179766		100	100

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1

SDG No.:

Instrument ID: NOEQUIP Method: 9012

Start Date: 05/05/2014 06:25 End Date: 05/05/2014 06:52

Lab Sample ID	D / F	Type	Time	Analytes																				
				CNReac																				
ZZZZZZ			06:25																					
ZZZZZZ			06:25																					
ZZZZZZ			06:25																					
ZZZZZZ			06:25																					
ZZZZZZ			06:25																					
CCV 480-180033/1	1		06:26	X																				
CCB 480-180033/2	1		06:27	X																				
MB 480-179770/1-A	1	T	06:29	X																				
LCS 480-179770/2-A	1	T	06:30	X																				
LCSD 480-179770/3-A	1	T	06:32	X																				
ZZZZZZ			06:35																					
480-58807-1	1	T	06:38	X																				
480-58807-2	1	T	06:39	X																				
480-58807-3	1	T	06:40	X																				
480-58807-4	1	T	06:42	X																				
CCV 480-180033/13	1		06:43	X																				
CCB 480-180033/14	1		06:45	X																				
CCV 480-180033/18			06:50																					
CCB 480-180033/19			06:52																					

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1

SDG No.:

Instrument ID: NOEQUIP Method: 9034

Start Date: 05/05/2014 09:30 End Date: 05/05/2014 09:30

Lab Sample ID	D / F	Type	Time	Analytes																			
				S2Reac																			
CCV 480-180094/1	1		09:30	X																			
CCB 480-180094/2	1		09:30	X																			
MB 480-179766/1-A	1	T	09:30	X																			
LCS 480-179766/2-A	1	T	09:30	X																			
LCSD 480-179766/3-A	1	T	09:30	X																			
ZZZZZZ			09:30																				
ZZZZZZ			09:30																				
ZZZZZZ			09:30																				
480-58807-1	1	T	09:30	X																			
480-58807-2	1	T	09:30	X																			
480-58807-3	1	T	09:30	X																			
480-58807-4	1	T	09:30	X																			
CCV 480-180094/13	1		09:30	X																			
CCB 480-180094/14	1		09:30	X																			
ZZZZZZ			09:30																				
ZZZZZZ			09:30																				
ZZZZZZ			09:30																				
ZZZZZZ			09:30																				
CCV 480-180094/19			09:30																				
CCB 480-180094/20			09:30																				

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1

SDG No.:

Instrument ID: NOEQUIP Method: 9045D

Start Date: 04/29/2014 21:50 End Date: 04/29/2014 21:50

Lab Sample ID	D / F	Type	Time	Analytes																				
				pH																				
LCS 480-179029/1	1	T	21:50	X																				
480-58807-3	1	T	21:50	X																				
480-58807-4	1	T	21:50	X																				
480-58807-1	1	T	21:50	X																				
480-58807-2	1	T	21:50	X																				
ZZZZZZ			21:50																					
ZZZZZZ			21:50																					
ZZZZZZ			21:50																					
ZZZZZZ			21:50																					
ZZZZZZ			21:50																					
ZZZZZZ			21:50																					
CCV 480-179029/12	1		21:50	X																				

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1

SDG No.:

Instrument ID: NOEQUIP Method: Moisture

Start Date: 04/28/2014 16:28 End Date: 04/28/2014 16:32

Lab Sample ID	D / F	Type	Time	Analytes																			
				% Sol	Moist																		
480-58807-1	1	T	16:28	X	X																		
480-58807-2	1	T	16:28	X	X																		
480-58807-3	1	T	16:28	X	X																		
480-58807-4	1	T	16:28	X	X																		
ZZZZZZ			16:28																				
ZZZZZZ			16:28																				
ZZZZZZ			16:28																				
ZZZZZZ			16:28																				
ZZZZZZ			16:28																				
ZZZZZZ			16:28																				
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ZZZZZZ			16:28																				
ZZZZZZ			16:28																				
ZZZZZZ			16:28																				
ZZZZZZ			16:28																				
ZZZZZZ			16:32																				
ZZZZZZ			16:32																				
ZZZZZZ			16:32																				
ZZZZZZ			16:32																				
ZZZZZZ			16:32																				
ZZZZZZ			16:32																				
ZZZZZZ			16:32																				

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1

SDG No.:

Instrument ID: NOEQUIP Method: 1010A

Start Date: 04/30/2014 09:08 End Date: 04/30/2014 09:08

Lab Sample ID	D / F	Type	Time	Analytes																			
				FP																			
LCS 480-179279/1	1	T	09:08	X																			
480-58807-1	1	T	09:08	X																			
480-58807-2	1	T	09:08	X																			
480-58807-3	1	T	09:08	X																			
480-58807-4	1	T	09:08	X																			
CCV 480-179279/9	1		09:08	X																			

Prep Types

T = Total/NA

Author: buflachat2

Date : 5/5/2014

Original Run Filename: OM_5-5-2014_06-25-42AM.OMN Created: 5/5/2014 6:25:42 AM
Original Run Author's Signature: [buflachat2]
Current Run Filename: OM_5-5-2014_06-25-42AM.OMN Last Modified: 5/5/2014 6:55:20 AM
Current Run Author's Signature: [buflachat2]
Description: 10-204-00-1-A

PREP. BATCH; 179770
ANAL. BATCH; 180033

Sample	Rep.	Cup No.	Channel 1 Cyanide Conc. (mg/L)	Area (V.s)	Height (V)	Detection Time	
CCV	1	S9	0.238	31.5	0.875	5/5/2014@6:26:30 AM	47.6
Known Conc:			1.50				
Calibration:			Table/Fig. : 1				
CCB	1	S10	1.09e-3	0.0356	2.72e-3	5/5/2014@6:27:56 AM	ND
Known Conc:			0.00				
MB-05-02-2014	1	1	1.13e-3	0.0404	3.92e-3	5/5/2014@6:29:23 AM	ND
LCS-05-02-2014-25X	1	2	0.243	32.3	0.890	5/5/2014@6:30:50 AM	303.8
LCSD-05-02-2014-25X	1	3	0.239	31.8	0.880	5/5/2014@6:32:17 AM	298.8
480-58942-g-1-c	1	4	7.40e-4	-0.0113	-9.56e-4	5/5/2014@6:33:44 AM	ND
480-58942-g-1-d du	1	5	7.57e-3	0.898	0.0252	5/5/2014@6:35:10 AM	ND
480-58999-h-1-b	1	6	7.20e-4	-0.0139	-1.28e-3	5/5/2014@6:36:37 AM	ND
480-58807-c-1-b	1	7	4.49e-4	-0.0501	-1.79e-3	5/5/2014@6:38:03 AM	ND
480-58807-b-2-b	1	8	1.22e-3	0.0531	2.25e-3	5/5/2014@6:39:30 AM	ND
480-58807-b-3-g	1	9	2.06e-3	0.165	4.45e-3	5/5/2014@6:40:56 AM	ND
480-58807-c-4-g	1	10	5.39e-4	-0.0381	-1.85e-3	5/5/2014@6:42:22 AM	ND
CCV	1	S9	0.243	32.3	0.888	5/5/2014@6:43:48 AM	48.6
Known Conc:			100				
CCB	1	S10	-4.15e-4	-0.165	-3.52e-3	5/5/2014@6:45:14 AM	ND
Known Conc:			100				
480-58900-a-1-f	1	11	9.64e-4	0.0185	1.18e-3	5/5/2014@6:46:40 AM	ND
480-58901-a-1-f	1	12	1.04e-3	0.0285	2.34e-3	5/5/2014@6:48:06 AM	ND
480-58902-a-1-f	1	13	1.29e-3	0.0619	2.08e-3	5/5/2014@6:49:32 AM	ND
CCV	1	S9	0.240	31.8	0.880	5/5/2014@6:50:57 AM	48.0
Known Conc:			100				
CCB	1	S10	6.26e-4	-0.0264	-1.82e-3	5/5/2014@6:52:24 AM	ND
Known Conc:			100				

0.38 < RL

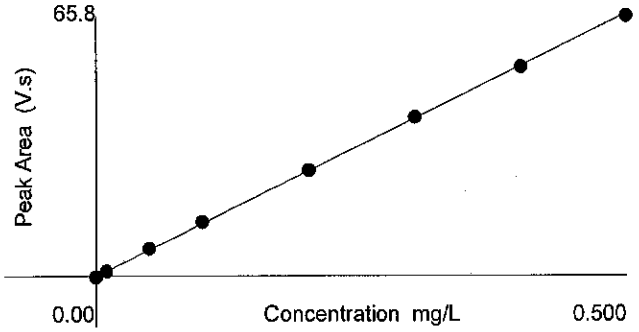
Table : 1 (Cyanide)

	Known Conc. (mg/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg/L)	Detection Date	Detection Time
1	0.500	1	65.8	1.82	0.0	1.1	0.494	5/2/2014	9:21:08 PM
2	0.400	1	52.8	1.45	0.0	0.7	0.397	5/2/2014	9:22:34 PM
3	0.300	1	40.1	1.10	0.0	-0.6	0.302	5/2/2014	9:24:00 PM
4	0.200	1	26.6	0.734	0.0	-0.4	0.201	5/2/2014	9:25:27 PM
5	0.100	1	13.6	0.371	0.0	-2.9	0.103	5/2/2014	9:26:54 PM
6	0.0500	1	6.89	0.186	0.0	-5.2	0.0526	5/2/2014	9:28:22 PM
7	0.0100	1	1.24	0.0335	0.0	-1.1	0.0101	5/2/2014	9:29:49 PM
8	0.00	1	-0.218	-5.32e-3			-8.15e-4	5/2/2014	9:31:18 PM

Author: buflachat2

Date : 5/5/2014

Figure : 1 (Cyanide)



Area = 133 * Conc - 0.109
Conc = 7.51e-3 * Area + 8.25e-4
Correlation Coefficient (r) = 0.99998

Weighting : 1/x

Solutions:

Cyanide 335.4/9012/335.1/4500

Potassium Phosphate Buffer	**2025726**	**Exp. 10/23/2014**
Pyridine Barbituric Acid	**2044312**	**Exp. 05/14/2014**
Chloramine-T	**2044313**	**Exp. 05/05/2014**

Curve: 5/02/2014

LCS = 0.4mg/L, 0.25mg/L
CCV = 0.25mg/L
MS/SD = 0.1mg/L

ERA D078-541	**Actual = 124 mg/Kg**
	Range = 26 - 109 mg/Kg
ERA D080-541	**Actual = 60.7 mg/Kg**
	Range = 12.8 – 53.8 mg/Kg

50ppm INT STD = 2043595 Exp. 5/06/2014

Analyst: LAW
Date: 05/02/14
Time Started : 00:50
Time Ended :

	Login #	Sample ID	Weight/Vol		
1	MB	Blank	10	ml	
2	LCS	1000ppm Std	10	ml	
3	LCSD	1000ppm Std	10	ml	
4	480-58942	G1	10	ml	
5	480-58942	G1-DU	10	ml	
6	480-58999	H1	10	ml	
7	480-58807	C1	10.0110	g	
8	480-58807	B2	10.0373	g	
9	480-58807	B3	10.0194	g	
10	480-58807	C4	10.0108	g	
11	480-58900	A1	10.0247	g	
12	480-58901	A1	10.0578	g	
13	480-58902	A1	10.0170	g	
14	440-76890	B1	10.0549	g	SULFIDE ONLY
15				g	
16				g	
17				g	
18				g	
19				g	
20				g	
21				g	
22				g	

Cyanide: ✓ Sulfide: ____

CYANIDE STD: 1950664
SULFIDE STD: 1982283

Prep Batch: 179770

MB — 2047204
LCS — 2047205

↓

2047216

PREP. BATCH: 179776
ANAL. BATCH: 180094

TestAmerica Buffalo

REACTIVITY LOG

Logbook # A13-05-07

Date	Anal.	Job #	Sample I.D.	N_2 Flow	Sample Wt. (g)	Scrubber Vol. (ml)	Time (Min)	Total Available Sulfide				Comments
								I_2 Vol. (ml)	Sample Vol. (ml)	Titrant Vol. (ml)	Final conc. H_2S (mg/kg)	
5/5/14	LAW	CCV	CCV	60	10	500	30	5	100	2.70	921.7	
		CCB	CCB					1		1.00	ND	
		MB – 5/2/14						1		1.00	ND	
		LCS – 5/2/14						5		1.20	761.4	
		LCSD – 5/2/14						5		1.00	801.5	
		480-58942	G1					1		1.00	ND	
			G1-DU					1		1.00	ND	
		480-58999	H1					1		1.00	ND	
		480-58807	C1					1		1.00	ND	
			B2					1		1.00	ND	
			B3					1		1.00	ND	
			C4					1		1.00	ND	
		CCV	CCV					5		2.65	941.8	
		CCB	CCB					1		1.00	ND	
		480-58980	A1					1		1.00	ND	
		480-58902	A1					1		1.00	ND	
		480-58902	A1					1		1.00	ND	
	↓	440-76890	B1	↓	↓	↓	↓	1	↓	1.00	ND	

Start/End Time 9:30 / 10:40 Solutions 1703136 1978591 2001190 1935017 1982285

Reviewed By/ Date LAW 5/5/14 N I_2= 0.025 N NaS_2O_3= 0.0250

05/15/2014

TestAmerica Buffalo

REACTIVITY LOG

Logbook # A13-05-07

Date	Anal.	Job #	Sample I.D.	N_2 Flow	Sample Wt. (g)	Scrubber Vol. (ml)	Time (Min)	Total Available Sulfide				Comments
								I_2 Vol. (ml)	Sample Vol. (ml)	Titrant Vol. (ml)	Final conc. H_2S (mg/kg)	
5/5/14	LAW	CCV	CCV	60	10	500	30	5	100	2.65	941.8	
1	1	CCB	CCB	1	1	1	1	1	1	1.00	ND	

Analyst: LAW
Date: 05/02/14
Time Started : 00:50
Time Ended :

	Login #	Sample ID	Weight/Vol		
1	MB	Blank	10	ml	
2	LCS	1000ppm Std	10	ml	
3	LCSD	1000ppm Std	10	ml	
4	480-58942	G1	10	ml	
5	480-58942	G1-DU	10	ml	
6	480-58999	H1	10	ml	
7	480-58807	C1	10.0110	g	
8	480-58807	B2	10.0373	g	
9	480-58807	B3	10.0194	g	
10	480-58807	C4	10.0108	g	
11	480-58900	A1	10.0247	g	
12	480-58901	A1	10.0578	g	
13	480-58902	A1	10.0170	g	
14	440-76890	B1	10.0549	g	SULFIDE ONLY
15				g	
16				g	
17				g	
18				g	
19				g	
20				g	
21				g	
22				g	

Cyanide:____ Sulfide: V

CYANIDE STD: 1950664
SULFIDE STD: 1982283

Prep Batch: 179766

MB — 2047190
LCS — 2047191

↓

2047203

1179029

TestAmerica BUFFALO

pH LOG – SOILS Method 9045C/9045D

Logbook # A14-01-13

DATE	ANAL	BUFFERS 7:00 WCR-	BUFFERS 4:00 WCR-	BUFFERS 10:00 WCR-	BUFFER TEMP °C	JOB #	SAMPLE I.D.	SPL WT. (g) /VOL.(ml)	SAMPLE TEMP °C	pH	TIME	COMMENTS
4/29/14	TB 4/29 JB 4/29	7.01	4.00	10.01	20.4	LCS	@7.00	25 mL	20.2	7.02	21:50	
						58807	A3	20g/20mL	20.1	5.82		
							A4		20.2	6.58		
							A1		20.3	5.34		
							A2		20.1	5.73		
						58754	C1		20.4	5.79		
						58755	A1		20.2	6.99		
						58733	A1		20.2	7.13		
						58867	A1		20.1	7.54		
							A1DM		20.2	7.50		
						58506	A1		20.0 rm 19.8 4/29	6.89		
						CCV	@7.00	25mL	19.9	7.03	22:07	

Reviewed By JB pH Meter Model # ORION STAR A321

Date 4/29/14 SRM 7:00 = WCR

4.00 BUFFER ROI EXP 12/14
7.00 " SX1 " 3/14 2022[illegible]
10.00 " 2036785 13/200

5/15/2014

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Laboratory Bench Sheet
Flashpoint
Method 1010
Herzog Instrument

Flashpoint_Template
Revision1
September 20, 2012

Analyst:	RP	BATCH #	174279
Date:	4/30/14	p-Xylene	7020500
		Acceptance Range=	77-83°F
		Barometric Pressure	994 MM

	Job#	Sample ID	Start Temp °F	Flashpoint Result °F	Comment
1	LCS	LCS	70°F	80.0°F	
2	58767	B1	70.5°F	>176°F	
3		B1dv	73.0°F	>176°F	
4	58807	A1	73.0°F	>176°F	
5		A2	70.5°F	>176°F	
6		A3	70.0°F	>176°F	
7		A4	71.0°F	>176°F	
8	58793	E1	73.0°F	>176°F	
9	CCV	CCV	71.5°F	80.0°F	

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1

SDG No.:

Batch Number: 179770 Batch Start Date: 05/02/14 13:36 Batch Analyst: Wolfe, Larry A

Batch Method: 7.3.3 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	WCFreeCN_STK 00032			
MB 480-179770/1		7.3.3, 9012		5 mL	5 mL				
LCS 480-179770/2		7.3.3, 9012		5 mL	5 mL	5 mL			
LCSD 480-179770/3		7.3.3, 9012		5 mL	5 mL	5 mL			
480-58807-C-1	P1-1(Sed)	7.3.3, 9012	T	5 mL	5 mL				
480-58807-B-2	P1-2(Sed)	7.3.3, 9012	T	5 mL	5 mL				
480-58807-B-3	P2-1(Sed)	7.3.3, 9012	T	5 mL	5 mL				
480-58807-C-4	P2-2(Sed)	7.3.3, 9012	T	5 mL	5 mL				

Batch Notes	

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 BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1

SDG No.:

Batch Number: 180033 Batch Start Date: 05/05/14 06:25 Batch Analyst: Wolfe, Larry A

Batch Method: 9012 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	FreeCnInt 00017			
CCV 480-180033/1		9012		5 mL	5 mL	# mL			
CCB 480-180033/2		9012		5 mL	5 mL				
MB 480-179770/1-A		9012		5 mL	5 mL				
LCS 480-179770/2-A		9012		5 mL	5 mL				
LCSD 480-179770/3-A		9012		5 mL	5 mL				
480-58807-C-1-B	P1-1(Sed)	9012	T	5 mL	5 mL				
480-58807-B-2-B	P1-2(Sed)	9012	T	5 mL	5 mL				
480-58807-B-3-G	P2-1(Sed)	9012	T	5 mL	5 mL				
480-58807-C-4-G	P2-2(Sed)	9012	T	5 mL	5 mL				
CCV 480-180033/13		9012		5 mL	5 mL	# mL			
CCB 480-180033/14		9012		5 mL	5 mL				

Batch Notes	

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 BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1

SDG No.:

Batch Number: 179766 Batch Start Date: 05/02/14 00:50 Batch Analyst: Wolfe, Larry A

Batch Method: 7.3.4 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Sulfide 1000p 00017			
MB 480-179766/1		7.3.4, 9034		100 mL	100 mL				
LCS 480-179766/2		7.3.4, 9034		100 mL	100 mL	100 mL			
LCSD 480-179766/3		7.3.4, 9034		100 mL	100 mL	100 mL			
480-58807-C-1	P1-1(Sed)	7.3.4, 9034	T	100 mL	100 mL				
480-58807-B-2	P1-2(Sed)	7.3.4, 9034	T	100 mL	100 mL				
480-58807-B-3	P2-1(Sed)	7.3.4, 9034	T	100 mL	100 mL				
480-58807-C-4	P2-2(Sed)	7.3.4, 9034	T	100 mL	100 mL				

Batch Notes	

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 BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1

SDG No.:

Batch Number: 180094 Batch Start Date: 05/05/14 09:30 Batch Analyst: Wolfe, Larry A

Batch Method: 9034 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	IodineAmount	TitrantVolume1	CalcMsg	FinalAmount	Sulfide 1000p 00017
CCV 480-180094/1		9034		100 mL	5 mL	2.70 mL	Norm. of Iodine left blank	100 mL	# mL
CCB 480-180094/2		9034		100 mL	1 mL	1.00 mL	Norm. of Iodine left blank	100 mL	
MB 480-179766/1-A		9034		100 mL	1 mL	1.00 mL	Norm. of Iodine left blank	100 mL	
LCS 480-179766/2-A		9034		100 mL	5 mL	1.20 mL	Norm. of Iodine left blank	100 mL	
LCSD 480-179766/3-A		9034		100 mL	5 mL	1.00 mL	Norm. of Iodine left blank	100 mL	
480-58807-C-1-A	P1-1(Sed)	9034	T	100 mL	1 mL	1.00 mL	Norm. of Iodine left blank	100 mL	
480-58807-B-2-A	P1-2(Sed)	9034	T	100 mL	1 mL	1.00 mL	Norm. of Iodine left blank	100 mL	
480-58807-B-3-F	P2-1(Sed)	9034	T	100 mL	1 mL	1.00 mL	Norm. of Iodine left blank	100 mL	
480-58807-C-4-F	P2-2(Sed)	9034	T	100 mL	1 mL	1.00 mL	Norm. of Iodine left blank	100 mL	
CCV 480-180094/13		9034		100 mL	5 mL	2.65 mL	Norm. of Iodine left blank	100 mL	# mL
CCB 480-180094/14		9034		100 mL	1 mL	1.00 mL	Norm. of Iodine left blank	100 mL	

Batch Notes	
Perform Calculation (0=No, 1=Yes)	1

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 BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1

SDG No.:

Batch Number: 179029 Batch Start Date: 04/29/14 21:50 Batch Analyst: Brado, James M

Batch Method: 9045D Batch End Date: 04/29/14 22:07

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	SampleTemp	7.0 Buffer 00050		
LCS 480-179029/1		9045D		25 mL	25 mL	20.2 Celsius	25 mL		
480-58807-A-3	P2-1(Sed)	9045D	T	20 g	20 mL	20.1 Celsius			
480-58807-A-4	P2-2(Sed)	9045D	T	20 g	20 mL	20.2 Celsius			
480-58807-A-1	P1-1(Sed)	9045D	T	20 g	20 mL	20.3 Celsius			
480-58807-A-2	P1-2(Sed)	9045D	T	20 g	20 mL	20.1 Celsius			
CCV 480-179029/12		9045D		25 mL	25 mL	19.9 Celsius	25 mL		

Batch Notes	

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 BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1

SDG No.:

Batch Number: 178745 Batch Start Date: 04/28/14 16:28 Batch Analyst: Robison, Zachary J

Batch Method: Moisture Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	DISH#	DishWeight	SampleMassWet	SampleMassDry		
480-58807-A-1	P1-1(Sed)	Moisture	T	1	4.40 g	12.92 g	11.64 g		
480-58807-A-2	P1-2(Sed)	Moisture	T	2	4.40 g	10.99 g	9.85 g		
480-58807-A-3	P2-1(Sed)	Moisture	T	3	4.40 g	18.70 g	16.90 g		
480-58807-A-4	P2-2(Sed)	Moisture	T	4	4.40 g	15.08 g	13.20 g		

Batch Notes	
Batch Comment	PP-BSL-12-13 4.40
Date samples were placed in the oven	4/28/14
Time samples were place in the oven	16:30
Date samples were removed from oven	4/29/14
Time Samples were removed from oven	0600

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 BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-58807-1

SDG No.:

Batch Number: 179279 Batch Start Date: 04/30/14 09:08 Batch Analyst: Pietras, Rosemary

Batch Method: 1010A Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	InitialTemp	P-Xylene 00028		
LCS 480-179279/1		1010A		25 mL	25 mL	70.0 Degrees F	25 mL		
480-58807-A-1	P1-1(Sed)	1010A	T			73.0 Degrees F			
480-58807-A-2	P1-2(Sed)	1010A	T			70.5 Degrees F			
480-58807-A-3	P2-1(Sed)	1010A	T			70.0 Degrees F			
480-58807-A-4	P2-2(Sed)	1010A	T			71.0 Degrees F			
CCV 480-179279/9		1010A		25 mL	25 mL	71.5 Degrees F	25 mL		

Batch Notes	

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

Chain of Custody Record

Temperature on Receipt _____

Drinking Water? Yes ☐ No ☒

TestAmerica
THE LEADER IN ENVIRONME

480-58807 Chain of Custody

TAL-4124 (1007)

Client	Project Manager	Date	Chain of Custody Number
Sterling Env. Eng	Jenn DiCerbo	4/25/14	271224
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page** 6 of 13
24 Wade Rd	(518) 456-4900		
City / **State** / **Zip Code**	**Site Contact**	**Lab Contact**	
Latham / NY / 12110	A. Castignetti	Lisa Shaffer	
Project Name and Location (State)	**Carrier/Waybill Number**		
Mt. Risco, NY			
Contract/Purchase Order/Quote No.			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Analysis: TCL *	TAL *	Disposal	Special Instructions/ Conditions of Receipt
P2-1 (sed)	4/25/14				X		7						X	X		Sed Samples
P2-2 (sed)					X											Little Wet
Dup-4					X											
MSD-4 (P2-1(S))						X										* TCL/TAL Sample
MS-4 P2-1(S)						X										= Category B report
P1-2 (sed)					X		4								X	per Sterling
P2-1 (sed)																
P1-1 (sed)																
P2-2 (sed)																

Page 1244 of 1245

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required
☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☒ Other Standard

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By	4/25/14	1740	1. Received By	4/28/14	0936
2. Relinquished By			2. Received By		
3. Relinquished By			3. Received By		

Comments

7.3 #1

05/15/2014

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

Login Sample Receipt Checklist

Client: Sterling Environmental Engineering PC

Job Number: 480-58807-1

Login Number: 58807

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	sterling
Samples received within 48 hours of sampling.	False	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	