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ANALYTICAL REPORT

Job Number: 480-121321-1

Job Description: Nash Rd. Wheatfield #932054

For:
New York State D.E.C.
270 Michigan Avenue
Buffalo, NY 14203

Attention: Mr. Glenn May



Approved for release.
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Senior Project Manager
7/31/2017 6:19 PM

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Job Number: 480-121321-1

Job Description: Nash Rd. Wheatfield #932054

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Approved for release.
Orlette S Johnson
Senior Project Manager
7/31/2017 6:19 PM

Orlette S Johnson

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Job Narrative
480-121321-1

Receipt
The samples were received on 7/19/2017 5:00 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.0º C.

GC/MS VOA
Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 480-368496 recovered above the upper control limit for Chloroethane and Bromomethane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: TP-01 (480-121321-1), TP-03 (480-121321-2), TP-18 (480-121321-3), TP-04 (480-121321-4), TP-05 (480-121321-5) and DUP (480-121321-6).

Method(s) 8260C: The laboratory control sample (LCS) for preparation batch 480-368516 and analytical batch 480-368496 recovered outside control limits for the following analyte: Chloroethane. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported. The following samples are impacted: TP-01 (480-121321-1), TP-03 (480-121321-2), TP-18 (480-121321-3), TP-04 (480-121321-4), TP-05 (480-121321-5) and DUP (480-121321-6).

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

GC/MS Semi VOA
Method(s) 8270D: The following sample was diluted due to color and viscosity: TP-01 (480-121321-1). Elevated reporting limits (RL) are provided.

Method(s) 8270D: The continuing calibration verification (CCV) associated with batch 480-368598 recovered above the upper control limit for 2,4-Dinitrophenol, 4,6-Dinitro-2-methylphenol and 2-Nitrophenol. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: TP-01 (480-121321-1), TP-03 (480-121321-2), TP-04 (480-121321-4), TP-05 (480-121321-5) and DUP (480-121321-6).

Method(s) 8270D: The continuing calibration verification (CCV) associated with batch 480-368598 recovered outside acceptance criteria, low biased, for 2,2'-oxybis[1-chloropropane]. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported. The following samples are impacted: TP-01 (480-121321-1), TP-03 (480-121321-2), TP-04 (480-121321-4), TP-05 (480-121321-5) and DUP (480-121321-6).

Method(s) 8270D: Six surrogates are used for this analysis. The laboratory's SOP allows one acid and one base of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following sample contained an allowable number of surrogate compounds outside limits: TP-01 (480-121321-1). These results have been reported and qualified.

Method(s) 8270D: The following sample was diluted due to color and, viscosity: TP-18 (480-121321-3). Elevated reporting limits (RL) are provided.

Method(s) 8270D: Six surrogates are used for this analysis. The laboratory's SOP allows one acid and one base of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following sample contained an allowable number of surrogate compounds outside limits: TP-18 (480-121321-3). These results have been reported and qualified.

Method(s) 8270D: The initial calibration curve analyzed in analytical batch 368115 was outside method criteria for the analytes 2-Nitrophenol, 2-Nitroaniline, 2,6-Dinitrotoluene, 3-Nitroaniline, 2,4-Dinitrophenol, 2,4-Dinitrotoluene and 4,6-Dinitro-2-methylphenol. As indicated in the reference method, sample analysis may proceed; however, any detection or non-detection for the affected analytes is considered an estimated concentration.

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

GC Semi VOA
Method(s) 8081B: The following sample was diluted due to the nature of the sample matrix: TP-18 (480-121321-3). As such, surrogate recoveries are below the calibration range,estimated, and not representative. Elevated reporting limits (RLs) are provided.

Method(s) 8081B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 368029 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method(s) 8081B: All primary data for analytical batch 368232 is reported from the RTX-CLPII column.

Method(s) 8082A: All primary data for analytical batch 367887 is reported from the ZB-5 column.

Method(s) 8082A: 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) 8082A: For method 8082, the recovery of one surrogate in sample TP-04 (480-121321-4[MSD]) exceeds quality control limits. The recovery of the secondary surrogate is within quality control criteria; no corrective action is required.

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

Metals
Method(s) 6010C: The Continuing Calibration Blank (CCB 480-368738/29) contained Total Manganese above the reporting limit (RL). All reported samples TP-01 (480-121321-1), TP-03 (480-121321-2), TP-18 (480-121321-3), TP-04 (480-121321-4), TP-04 (480-121321-4[MS]), TP-04 (480-121321-4[MSD]), TP-05 (480-121321-5), DUP (480-121321-6), (LCSSRM 480-368424/2-), (MB 480-368424/1-A), (480-121321-A-4-I PDS) and (480-121321-A-4-I SD) associated with this CCB were either below the laboratory's standard reporting limit for this analyte or contained this analyte at a concentration greater than 10X the value found in the CCB; therefore, re-analysis of samples was not performed.

Method(s) 6010C: The Serial Dilution (480-121321-A-4-I SD) in batch 480-368424, exhibited a result outside the quality control limits for Total Lead. However, the Post Digestion Spike was compliant so no corrective action was necessary

Method(s) 6010C: The % recovery of Post Spike, (480-121321-A-4-I PDS), in batch 480-368424 exhibited a result outside the quality control limits for Total Calcium. However, the Serial Dilution of this sample was compliant. Therefore, no corrective action was necessary

Method(s) 6010C: The Low Level Continuing Calibration Verification (CCVL 480-368738/42) contained Total Manganese outside the control limits. All reported samples TP-04 (480-121321-4[MS]), TP-04 (480-121321-4[MSD]), TP-05 (480-121321-5), DUP (480-121321-6) and (480-121321-A-4-I PDS) associated with this CCVL were either below the laboratory's standard reporting limit for this analyte or contained this analyte at a concentration greater than 10X the value found in the CCVL; therefore, re-analysis of samples was not performed.

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

Organic Prep
Method(s) 3550C: The following samples required a Florisil clean-up, via EPA Method 3620C, to reduce matrix interferences: TP-01 (480-121321-1) and TP-18 (480-121321-3).

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

Sample Summary

Client: New York State D.E.C.
Project/Site: Nash Rd. Wheatfield #932054

TestAmerica Job ID: 480-121321-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-121321-1	TP-01	Solid	07/19/17 09:00	07/19/17 17:00
480-121321-2	TP-03	Solid	07/19/17 10:00	07/19/17 17:00
480-121321-3	TP-18	Solid	07/19/17 11:00	07/19/17 17:00
480-121321-4	TP-04	Solid	07/19/17 13:00	07/19/17 17:00
480-121321-5	TP-05	Solid	07/19/17 14:00	07/19/17 17:00
480-121321-6	DUP	Solid	07/19/17 00:00	07/19/17 17:00

Detection Summary

Client: New York State D.E.C.
Project/Site: Nash Rd. Wheatfield #932054

TestAmerica Job ID: 480-121321-1

Client Sample ID: TP-01 — Lab Sample ID: 480-121321-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
4,4'-DDE	0.55	J	2.1	0.43	ug/Kg	1	☼	8081B	Total/NA
4,4'-DDT	1.3	J	2.1	0.48	ug/Kg	1	☼	8081B	Total/NA
Aluminum	17800		11.2	4.9	mg/Kg	1	☼	6010C	Total/NA
Arsenic	3.8		2.2	0.45	mg/Kg	1	☼	6010C	Total/NA
Barium	82.0		0.56	0.12	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.90		0.22	0.031	mg/Kg	1	☼	6010C	Total/NA
Calcium	4210	B	55.9	3.7	mg/Kg	1	☼	6010C	Total/NA
Chromium	22.5		0.56	0.22	mg/Kg	1	☼	6010C	Total/NA
Cobalt	6.8		0.56	0.056	mg/Kg	1	☼	6010C	Total/NA
Copper	19.9		1.1	0.23	mg/Kg	1	☼	6010C	Total/NA
Iron	26800		11.2	3.9	mg/Kg	1	☼	6010C	Total/NA
Lead	14.2		1.1	0.27	mg/Kg	1	☼	6010C	Total/NA
Magnesium	2800		22.4	1.0	mg/Kg	1	☼	6010C	Total/NA
Manganese	119	B ^	0.22	0.036	mg/Kg	1	☼	6010C	Total/NA
Nickel	18.4		5.6	0.26	mg/Kg	1	☼	6010C	Total/NA
Potassium	1710		33.5	22.4	mg/Kg	1	☼	6010C	Total/NA
Sodium	98.6	J B	157	14.5	mg/Kg	1	☼	6010C	Total/NA
Vanadium	41.2		0.56	0.12	mg/Kg	1	☼	6010C	Total/NA
Zinc	54.7		2.2	0.72	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.059		0.026	0.010	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: TP-03 — Lab Sample ID: 480-121321-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
delta-BHC	0.55	J	2.0	0.37	ug/Kg	1	☼	8081B	Total/NA
Aluminum	14600		11.3	5.0	mg/Kg	1	☼	6010C	Total/NA
Arsenic	2.2	J	2.3	0.45	mg/Kg	1	☼	6010C	Total/NA
Barium	66.5		0.56	0.12	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.42		0.23	0.032	mg/Kg	1	☼	6010C	Total/NA
Calcium	8920	B	56.4	3.7	mg/Kg	1	☼	6010C	Total/NA
Chromium	16.3		0.56	0.23	mg/Kg	1	☼	6010C	Total/NA
Cobalt	4.2		0.56	0.056	mg/Kg	1	☼	6010C	Total/NA
Copper	5.9		1.1	0.24	mg/Kg	1	☼	6010C	Total/NA
Iron	10500		11.3	3.9	mg/Kg	1	☼	6010C	Total/NA
Lead	7.0		1.1	0.27	mg/Kg	1	☼	6010C	Total/NA
Magnesium	2280		22.6	1.0	mg/Kg	1	☼	6010C	Total/NA
Manganese	56.8	B ^	0.23	0.036	mg/Kg	1	☼	6010C	Total/NA
Nickel	12.6		5.6	0.26	mg/Kg	1	☼	6010C	Total/NA
Potassium	1440		33.8	22.6	mg/Kg	1	☼	6010C	Total/NA
Sodium	201	B	158	14.7	mg/Kg	1	☼	6010C	Total/NA
Vanadium	28.0		0.56	0.12	mg/Kg	1	☼	6010C	Total/NA
Zinc	38.1		2.3	0.72	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.036		0.024	0.0098	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: TP-18 — Lab Sample ID: 480-121321-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
4,4'-DDD	20	J	42	8.2	ug/Kg	20	☼	8081B	Total/NA
4,4'-DDE	9.1	J	42	8.9	ug/Kg	20	☼	8081B	Total/NA
PCB-1248	0.51		0.24	0.047	mg/Kg	1	☼	8082A	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: TP-18 (Continued) — Lab Sample ID: 480-121321-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	10500		12.3	5.4	mg/Kg	1	☼	6010C	Total/NA
Arsenic	3.7		2.5	0.49	mg/Kg	1	☼	6010C	Total/NA
Barium	55.2		0.61	0.14	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.37		0.25	0.034	mg/Kg	1	☼	6010C	Total/NA
Cadmium	1.4		0.25	0.037	mg/Kg	1	☼	6010C	Total/NA
Calcium	38300	B	61.5	4.1	mg/Kg	1	☼	6010C	Total/NA
Chromium	16.7		0.61	0.25	mg/Kg	1	☼	6010C	Total/NA
Cobalt	5.5		0.61	0.061	mg/Kg	1	☼	6010C	Total/NA
Copper	39.2		1.2	0.26	mg/Kg	1	☼	6010C	Total/NA
Iron	15500		12.3	4.3	mg/Kg	1	☼	6010C	Total/NA
Lead	27.9		1.2	0.30	mg/Kg	1	☼	6010C	Total/NA
Magnesium	13300		24.6	1.1	mg/Kg	1	☼	6010C	Total/NA
Manganese	302	B ^	0.25	0.039	mg/Kg	1	☼	6010C	Total/NA
Nickel	16.6		6.1	0.28	mg/Kg	1	☼	6010C	Total/NA
Potassium	1940		36.9	24.6	mg/Kg	1	☼	6010C	Total/NA
Sodium	165	J B	172	16.0	mg/Kg	1	☼	6010C	Total/NA
Vanadium	24.7		0.61	0.14	mg/Kg	1	☼	6010C	Total/NA
Zinc	104		2.5	0.79	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.091		0.026	0.011	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: TP-04 — Lab Sample ID: 480-121321-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
4,4'-DDE	0.65	J	2.0	0.42	ug/Kg	1	☼	8081B	Total/NA
delta-BHC	0.51	J	2.0	0.37	ug/Kg	1	☼	8081B	Total/NA
Aluminum	9820		11.9	5.2	mg/Kg	1	☼	6010C	Total/NA
Arsenic	2.4		2.4	0.48	mg/Kg	1	☼	6010C	Total/NA
Barium	43.7		0.59	0.13	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.25		0.24	0.033	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.16	J	0.24	0.036	mg/Kg	1	☼	6010C	Total/NA
Calcium	13600	F2 B	59.5	3.9	mg/Kg	1	☼	6010C	Total/NA
Chromium	11.1		0.59	0.24	mg/Kg	1	☼	6010C	Total/NA
Cobalt	2.6		0.59	0.059	mg/Kg	1	☼	6010C	Total/NA
Copper	16.1		1.2	0.25	mg/Kg	1	☼	6010C	Total/NA
Iron	7460	F1	11.9	4.2	mg/Kg	1	☼	6010C	Total/NA
Lead	12.6		1.2	0.29	mg/Kg	1	☼	6010C	Total/NA
Magnesium	5500	F1 F2	23.8	1.1	mg/Kg	1	☼	6010C	Total/NA
Manganese	106	F1 F2 B ^	0.24	0.038	mg/Kg	1	☼	6010C	Total/NA
Nickel	9.7		5.9	0.27	mg/Kg	1	☼	6010C	Total/NA
Potassium	1220	F1	35.7	23.8	mg/Kg	1	☼	6010C	Total/NA
Sodium	352	B	167	15.5	mg/Kg	1	☼	6010C	Total/NA
Vanadium	18.3		0.59	0.13	mg/Kg	1	☼	6010C	Total/NA
Zinc	50.5	F1	2.4	0.76	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.023	J	0.024	0.0099	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: TP-05 — Lab Sample ID: 480-121321-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
4,4'-DDE	0.56	J	2.1	0.43	ug/Kg	1	☼	8081B	Total/NA
4,4'-DDT	0.90	J	2.1	0.48	ug/Kg	1	☼	8081B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: TP-05 (Continued) — Lab Sample ID: 480-121321-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
delta-BHC	0.51	J	2.1	0.38	ug/Kg	1	☼	8081B	Total/NA
Aluminum	9420		12.3	5.4	mg/Kg	1	☼	6010C	Total/NA
Arsenic	2.5		2.5	0.49	mg/Kg	1	☼	6010C	Total/NA
Barium	39.0		0.62	0.14	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.35		0.25	0.035	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.073	J	0.25	0.037	mg/Kg	1	☼	6010C	Total/NA
Calcium	21500	B	61.6	4.1	mg/Kg	1	☼	6010C	Total/NA
Chromium	13.0		0.62	0.25	mg/Kg	1	☼	6010C	Total/NA
Cobalt	4.0		0.62	0.062	mg/Kg	1	☼	6010C	Total/NA
Copper	9.1		1.2	0.26	mg/Kg	1	☼	6010C	Total/NA
Iron	11400		12.3	4.3	mg/Kg	1	☼	6010C	Total/NA
Lead	9.1		1.2	0.30	mg/Kg	1	☼	6010C	Total/NA
Magnesium	9500		24.6	1.1	mg/Kg	1	☼	6010C	Total/NA
Manganese	189	B ^	0.25	0.039	mg/Kg	1	☼	6010C	Total/NA
Nickel	10.8		6.2	0.28	mg/Kg	1	☼	6010C	Total/NA
Potassium	1350		37.0	24.6	mg/Kg	1	☼	6010C	Total/NA
Sodium	268	B	173	16.0	mg/Kg	1	☼	6010C	Total/NA
Vanadium	25.0		0.62	0.14	mg/Kg	1	☼	6010C	Total/NA
Zinc	41.6		2.5	0.79	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.032		0.025	0.010	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: DUP — Lab Sample ID: 480-121321-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
4,4'-DDE	0.46	J	2.0	0.42	ug/Kg	1	☼	8081B	Total/NA
4,4'-DDT	0.87	J	2.0	0.47	ug/Kg	1	☼	8081B	Total/NA
Aluminum	12600		11.0	4.9	mg/Kg	1	☼	6010C	Total/NA
Arsenic	3.3		2.2	0.44	mg/Kg	1	☼	6010C	Total/NA
Barium	55.0		0.55	0.12	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.37		0.22	0.031	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.053	J	0.22	0.033	mg/Kg	1	☼	6010C	Total/NA
Calcium	11500	B	55.2	3.6	mg/Kg	1	☼	6010C	Total/NA
Chromium	15.2		0.55	0.22	mg/Kg	1	☼	6010C	Total/NA
Cobalt	4.2		0.55	0.055	mg/Kg	1	☼	6010C	Total/NA
Copper	10.0		1.1	0.23	mg/Kg	1	☼	6010C	Total/NA
Iron	13700		11.0	3.9	mg/Kg	1	☼	6010C	Total/NA
Lead	9.8		1.1	0.27	mg/Kg	1	☼	6010C	Total/NA
Magnesium	5890		22.1	1.0	mg/Kg	1	☼	6010C	Total/NA
Manganese	264	B ^	0.22	0.035	mg/Kg	1	☼	6010C	Total/NA
Nickel	12.6		5.5	0.25	mg/Kg	1	☼	6010C	Total/NA
Potassium	1360		33.1	22.1	mg/Kg	1	☼	6010C	Total/NA
Sodium	304	B	155	14.4	mg/Kg	1	☼	6010C	Total/NA
Vanadium	27.5		0.55	0.12	mg/Kg	1	☼	6010C	Total/NA
Zinc	44.0		2.2	0.71	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.027		0.024	0.0097	mg/Kg	1	☼	7471B	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: New York State D.E.C.
Project/Site: Nash Rd. Wheatfield #932054

TestAmerica Job ID: 480-121321-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL BUF
8081B	Organochlorine Pesticides (GC)	SW846	TAL BUF
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL BUF
6010C	Metals (ICP)	SW846	TAL BUF
7471B	Mercury (CVAA)	SW846	TAL BUF
Moisture	Percent Moisture	EPA	TAL BUF

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Client Sample ID: TP-01
Date Collected: 07/19/17 09:00
Date Received: 07/19/17 17:00

Lab Sample ID: 480-121321-1
Matrix: Solid
Percent Solids: 79.8

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	vs	6.2	0.45	ug/Kg	☼	07/25/17 08:33	07/25/17 13:27	1
1,1,2,2-Tetrachloroethane	ND	vs	6.2	1.0	ug/Kg	☼	07/25/17 08:33	07/25/17 13:27	1
1,1,2-Trichloroethane	ND	vs	6.2	0.81	ug/Kg	☼	07/25/17 08:33	07/25/17 13:27	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	vs	6.2	1.4	ug/Kg	☼	07/25/17 08:33	07/25/17 13:27	1
1,1-Dichloroethane	ND	vs	6.2	0.76	ug/Kg	☼	07/25/17 08:33	07/25/17 13:27	1
1,1-Dichloroethene	ND	vs	6.2	0.76	ug/Kg	☼	07/25/17 08:33	07/25/17 13:27	1
1,2,4-Trichlorobenzene	ND	vs	6.2	0.38	ug/Kg	☼	07/25/17 08:33	07/25/17 13:27	1
1,2-Dibromo-3-Chloropropane	ND	vs	6.2	3.1	ug/Kg	☼	07/25/17 08:33	07/25/17 13:27	1
1,2-Dibromoethane	ND	vs	6.2	0.80	ug/Kg	☼	07/25/17 08:33	07/25/17 13:27	1
1,2-Dichlorobenzene	ND	vs	6.2	0.49	ug/Kg	☼	07/25/17 08:33	07/25/17 13:27	1
1,2-Dichloroethane	ND	vs	6.2	0.31	ug/Kg	☼	07/25/17 08:33	07/25/17 13:27	1
1,2-Dichloropropane	ND	vs	6.2	3.1	ug/Kg	☼	07/25/17 08:33	07/25/17 13:27	1
1,3-Dichlorobenzene	ND	vs	6.2	0.32	ug/Kg	☼	07/25/17 08:33	07/25/17 13:27	1
1,4-Dichlorobenzene	ND	vs	6.2	0.87	ug/Kg	☼	07/25/17 08:33	07/25/17 13:27	1
2-Hexanone	ND	vs	31	3.1	ug/Kg	☼	07/25/17 08:33	07/25/17 13:27	1
2-Butanone (MEK)	ND	vs	31	2.3	ug/Kg	☼	07/25/17 08:33	07/25/17 13:27	1
4-Methyl-2-pentanone (MIBK)	ND	vs	31	2.0	ug/Kg	☼	07/25/17 08:33	07/25/17 13:27	1
Acetone	ND	vs	31	5.2	ug/Kg	☼	07/25/17 08:33	07/25/17 13:27	1
Benzene	ND	vs	6.2	0.30	ug/Kg	☼	07/25/17 08:33	07/25/17 13:27	1
Bromodichloromethane	ND	vs	6.2	0.83	ug/Kg	☼	07/25/17 08:33	07/25/17 13:27	1
Bromoform	ND	vs	6.2	3.1	ug/Kg	☼	07/25/17 08:33	07/25/17 13:27	1
Bromomethane	ND	vs	6.2	0.56	ug/Kg	☼	07/25/17 08:33	07/25/17 13:27	1
Carbon disulfide	ND	vs	6.2	3.1	ug/Kg	☼	07/25/17 08:33	07/25/17 13:27	1
Carbon tetrachloride	ND	vs	6.2	0.60	ug/Kg	☼	07/25/17 08:33	07/25/17 13:27	1
Chlorobenzene	ND	vs	6.2	0.82	ug/Kg	☼	07/25/17 08:33	07/25/17 13:27	1
Dibromochloromethane	ND	vs	6.2	0.79	ug/Kg	☼	07/25/17 08:33	07/25/17 13:27	1
Chloroethane	ND	* vs	6.2	1.4	ug/Kg	☼	07/25/17 08:33	07/25/17 13:27	1
Chloroform	ND	vs	6.2	0.38	ug/Kg	☼	07/25/17 08:33	07/25/17 13:27	1
Chloromethane	ND	vs	6.2	0.37	ug/Kg	☼	07/25/17 08:33	07/25/17 13:27	1
cis-1,2-Dichloroethene	ND	vs	6.2	0.79	ug/Kg	☼	07/25/17 08:33	07/25/17 13:27	1
cis-1,3-Dichloropropene	ND	vs	6.2	0.89	ug/Kg	☼	07/25/17 08:33	07/25/17 13:27	1
Cyclohexane	ND	vs	6.2	0.87	ug/Kg	☼	07/25/17 08:33	07/25/17 13:27	1
Dichlorodifluoromethane	ND	vs	6.2	0.51	ug/Kg	☼	07/25/17 08:33	07/25/17 13:27	1
Ethylbenzene	ND	vs	6.2	0.43	ug/Kg	☼	07/25/17 08:33	07/25/17 13:27	1
Isopropylbenzene	ND	vs	6.2	0.94	ug/Kg	☼	07/25/17 08:33	07/25/17 13:27	1
Methyl acetate	ND	vs	31	3.7	ug/Kg	☼	07/25/17 08:33	07/25/17 13:27	1
Methyl tert-butyl ether	ND	vs	6.2	0.61	ug/Kg	☼	07/25/17 08:33	07/25/17 13:27	1
Methylcyclohexane	ND	vs	6.2	0.94	ug/Kg	☼	07/25/17 08:33	07/25/17 13:27	1
Methylene Chloride	ND	vs	6.2	2.9	ug/Kg	☼	07/25/17 08:33	07/25/17 13:27	1
Styrene	ND	vs	6.2	0.31	ug/Kg	☼	07/25/17 08:33	07/25/17 13:27	1
Tetrachloroethene	ND	vs	6.2	0.83	ug/Kg	☼	07/25/17 08:33	07/25/17 13:27	1
Toluene	ND	vs	6.2	0.47	ug/Kg	☼	07/25/17 08:33	07/25/17 13:27	1
trans-1,2-Dichloroethene	ND	vs	6.2	0.64	ug/Kg	☼	07/25/17 08:33	07/25/17 13:27	1
trans-1,3-Dichloropropene	ND	vs	6.2	2.7	ug/Kg	☼	07/25/17 08:33	07/25/17 13:27	1
Trichloroethene	ND	vs	6.2	1.4	ug/Kg	☼	07/25/17 08:33	07/25/17 13:27	1
Trichlorofluoromethane	ND	vs	6.2	0.59	ug/Kg	☼	07/25/17 08:33	07/25/17 13:27	1
Vinyl chloride	ND	vs	6.2	0.76	ug/Kg	☼	07/25/17 08:33	07/25/17 13:27	1
Xylenes, Total	ND	vs	12	1.0	ug/Kg	☼	07/25/17 08:33	07/25/17 13:27	1

Client Sample ID: TP-01

Date Collected: 07/19/17 09:00
Date Received: 07/19/17 17:00

Lab Sample ID: 480-121321-1

Matrix: Solid
Percent Solids: 79.8

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*109*		*64 - 126*	*07/25/17 08:33*	*07/25/17 13:27*	*1*
Toluene-d8 (Surr)	*96*		*71 - 125*	*07/25/17 08:33*	*07/25/17 13:27*	*1*
4-Bromofluorobenzene (Surr)	*95*		*72 - 126*	*07/25/17 08:33*	*07/25/17 13:27*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		2100	310	ug/Kg	☼	07/20/17 07:46	07/25/17 17:35	10
bis (2-chloroisopropyl) ether	ND		2100	420	ug/Kg	☼	07/20/17 07:46	07/25/17 17:35	10
2,4,5-Trichlorophenol	ND		2100	570	ug/Kg	☼	07/20/17 07:46	07/25/17 17:35	10
2,4,6-Trichlorophenol	ND		2100	420	ug/Kg	☼	07/20/17 07:46	07/25/17 17:35	10
2,4-Dichlorophenol	ND		2100	220	ug/Kg	☼	07/20/17 07:46	07/25/17 17:35	10
2,4-Dimethylphenol	ND		2100	510	ug/Kg	☼	07/20/17 07:46	07/25/17 17:35	10
2,4-Dinitrophenol	ND		21000	9800	ug/Kg	☼	07/20/17 07:46	07/25/17 17:35	10
2,4-Dinitrotoluene	ND		2100	440	ug/Kg	☼	07/20/17 07:46	07/25/17 17:35	10
2,6-Dinitrotoluene	ND		2100	250	ug/Kg	☼	07/20/17 07:46	07/25/17 17:35	10
2-Chloronaphthalene	ND		2100	350	ug/Kg	☼	07/20/17 07:46	07/25/17 17:35	10
2-Chlorophenol	ND		2100	390	ug/Kg	☼	07/20/17 07:46	07/25/17 17:35	10
2-Methylnaphthalene	ND		2100	420	ug/Kg	☼	07/20/17 07:46	07/25/17 17:35	10
2-Methylphenol	ND		2100	250	ug/Kg	☼	07/20/17 07:46	07/25/17 17:35	10
2-Nitroaniline	ND		4100	310	ug/Kg	☼	07/20/17 07:46	07/25/17 17:35	10
2-Nitrophenol	ND		2100	600	ug/Kg	☼	07/20/17 07:46	07/25/17 17:35	10
3,3'-Dichlorobenzidine	ND		4100	2500	ug/Kg	☼	07/20/17 07:46	07/25/17 17:35	10
3-Nitroaniline	ND		4100	590	ug/Kg	☼	07/20/17 07:46	07/25/17 17:35	10
4,6-Dinitro-2-methylphenol	ND		4100	2100	ug/Kg	☼	07/20/17 07:46	07/25/17 17:35	10
4-Bromophenyl phenyl ether	ND		2100	300	ug/Kg	☼	07/20/17 07:46	07/25/17 17:35	10
4-Chloro-3-methylphenol	ND		2100	520	ug/Kg	☼	07/20/17 07:46	07/25/17 17:35	10
4-Chloroaniline	ND		2100	520	ug/Kg	☼	07/20/17 07:46	07/25/17 17:35	10
4-Chlorophenyl phenyl ether	ND		2100	260	ug/Kg	☼	07/20/17 07:46	07/25/17 17:35	10
4-Methylphenol	ND		4100	250	ug/Kg	☼	07/20/17 07:46	07/25/17 17:35	10
4-Nitroaniline	ND		4100	1100	ug/Kg	☼	07/20/17 07:46	07/25/17 17:35	10
4-Nitrophenol	ND		4100	1500	ug/Kg	☼	07/20/17 07:46	07/25/17 17:35	10
Acenaphthene	ND		2100	310	ug/Kg	☼	07/20/17 07:46	07/25/17 17:35	10
Acenaphthylene	ND		2100	270	ug/Kg	☼	07/20/17 07:46	07/25/17 17:35	10
Acetophenone	ND		2100	290	ug/Kg	☼	07/20/17 07:46	07/25/17 17:35	10
Anthracene	ND		2100	520	ug/Kg	☼	07/20/17 07:46	07/25/17 17:35	10
Atrazine	ND		2100	740	ug/Kg	☼	07/20/17 07:46	07/25/17 17:35	10
Benzaldehyde	ND		2100	1700	ug/Kg	☼	07/20/17 07:46	07/25/17 17:35	10
Benzo(a)anthracene	ND		2100	210	ug/Kg	☼	07/20/17 07:46	07/25/17 17:35	10
Benzo(a)pyrene	ND		2100	310	ug/Kg	☼	07/20/17 07:46	07/25/17 17:35	10
Benzo(b)fluoranthene	ND		2100	340	ug/Kg	☼	07/20/17 07:46	07/25/17 17:35	10
Benzo(g,h,i)perylene	ND		2100	220	ug/Kg	☼	07/20/17 07:46	07/25/17 17:35	10
Benzo(k)fluoranthene	ND		2100	270	ug/Kg	☼	07/20/17 07:46	07/25/17 17:35	10
Bis(2-chloroethoxy)methane	ND		2100	450	ug/Kg	☼	07/20/17 07:46	07/25/17 17:35	10
Bis(2-chloroethyl)ether	ND		2100	270	ug/Kg	☼	07/20/17 07:46	07/25/17 17:35	10
Bis(2-ethylhexyl) phthalate	ND		2100	720	ug/Kg	☼	07/20/17 07:46	07/25/17 17:35	10
Butyl benzyl phthalate	ND		2100	350	ug/Kg	☼	07/20/17 07:46	07/25/17 17:35	10
Caprolactam	ND		2100	640	ug/Kg	☼	07/20/17 07:46	07/25/17 17:35	10
Carbazole	ND		2100	250	ug/Kg	☼	07/20/17 07:46	07/25/17 17:35	10
Chrysene	ND		2100	470	ug/Kg	☼	07/20/17 07:46	07/25/17 17:35	10
Di-n-butyl phthalate	ND		2100	360	ug/Kg	☼	07/20/17 07:46	07/25/17 17:35	10

Client Sample ID: TP-01
Date Collected: 07/19/17 09:00
Date Received: 07/19/17 17:00

Lab Sample ID: 480-121321-1
Matrix: Solid
Percent Solids: 79.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate	ND		2100	250	ug/Kg	☼	07/20/17 07:46	07/25/17 17:35	10
Dibenz(a,h)anthracene	ND		2100	370	ug/Kg	☼	07/20/17 07:46	07/25/17 17:35	10
Dibenzofuran	ND		2100	250	ug/Kg	☼	07/20/17 07:46	07/25/17 17:35	10
Diethyl phthalate	ND		2100	270	ug/Kg	☼	07/20/17 07:46	07/25/17 17:35	10
Dimethyl phthalate	ND		2100	250	ug/Kg	☼	07/20/17 07:46	07/25/17 17:35	10
Fluoranthene	ND		2100	220	ug/Kg	☼	07/20/17 07:46	07/25/17 17:35	10
Fluorene	ND		2100	250	ug/Kg	☼	07/20/17 07:46	07/25/17 17:35	10
Hexachlorobenzene	ND		2100	290	ug/Kg	☼	07/20/17 07:46	07/25/17 17:35	10
Hexachlorobutadiene	ND		2100	310	ug/Kg	☼	07/20/17 07:46	07/25/17 17:35	10
Hexachlorocyclopentadiene	ND		2100	290	ug/Kg	☼	07/20/17 07:46	07/25/17 17:35	10
Hexachloroethane	ND		2100	270	ug/Kg	☼	07/20/17 07:46	07/25/17 17:35	10
Indeno(1,2,3-cd)pyrene	ND		2100	260	ug/Kg	☼	07/20/17 07:46	07/25/17 17:35	10
Isophorone	ND		2100	450	ug/Kg	☼	07/20/17 07:46	07/25/17 17:35	10
N-Nitrosodi-n-propylamine	ND		2100	360	ug/Kg	☼	07/20/17 07:46	07/25/17 17:35	10
N-Nitrosodiphenylamine	ND		2100	1700	ug/Kg	☼	07/20/17 07:46	07/25/17 17:35	10
Naphthalene	ND		2100	270	ug/Kg	☼	07/20/17 07:46	07/25/17 17:35	10
Nitrobenzene	ND		2100	240	ug/Kg	☼	07/20/17 07:46	07/25/17 17:35	10
Pentachlorophenol	ND		4100	2100	ug/Kg	☼	07/20/17 07:46	07/25/17 17:35	10
Phenanthrene	ND		2100	310	ug/Kg	☼	07/20/17 07:46	07/25/17 17:35	10
Phenol	ND		2100	320	ug/Kg	☼	07/20/17 07:46	07/25/17 17:35	10
Pyrene	ND		2100	250	ug/Kg	☼	07/20/17 07:46	07/25/17 17:35	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*153*	*X*	*54 - 120*	*07/20/17 07:46*	*07/25/17 17:35*	*10*
2-Fluorobiphenyl	*85*		*60 - 120*	*07/20/17 07:46*	*07/25/17 17:35*	*10*
2-Fluorophenol	*70*		*52 - 120*	*07/20/17 07:46*	*07/25/17 17:35*	*10*
Nitrobenzene-d5	*151*	*X*	*53 - 120*	*07/20/17 07:46*	*07/25/17 17:35*	*10*
p-Terphenyl-d14	*87*		*65 - 121*	*07/20/17 07:46*	*07/25/17 17:35*	*10*
Phenol-d5	*64*		*54 - 120*	*07/20/17 07:46*	*07/25/17 17:35*	*10*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.1	0.40	ug/Kg	☼	07/21/17 06:42	07/22/17 13:45	1
4,4'-DDE	**0.55**	**J**	2.1	0.43	ug/Kg	☼	07/21/17 06:42	07/22/17 13:45	1
4,4'-DDT	**1.3**	**J**	2.1	0.48	ug/Kg	☼	07/21/17 06:42	07/22/17 13:45	1
Aldrin	ND		2.1	0.51	ug/Kg	☼	07/21/17 06:42	07/22/17 13:45	1
alpha-BHC	ND		2.1	0.37	ug/Kg	☼	07/21/17 06:42	07/22/17 13:45	1
alpha-Chlordane	ND		2.1	1.0	ug/Kg	☼	07/21/17 06:42	07/22/17 13:45	1
beta-BHC	ND		2.1	0.37	ug/Kg	☼	07/21/17 06:42	07/22/17 13:45	1
delta-BHC	ND		2.1	0.38	ug/Kg	☼	07/21/17 06:42	07/22/17 13:45	1
Dieldrin	ND		2.1	0.49	ug/Kg	☼	07/21/17 06:42	07/22/17 13:45	1
Endosulfan I	ND		2.1	0.40	ug/Kg	☼	07/21/17 06:42	07/22/17 13:45	1
Endosulfan II	ND		2.1	0.37	ug/Kg	☼	07/21/17 06:42	07/22/17 13:45	1
Endosulfan sulfate	ND		2.1	0.38	ug/Kg	☼	07/21/17 06:42	07/22/17 13:45	1
Endrin	ND		2.1	0.41	ug/Kg	☼	07/21/17 06:42	07/22/17 13:45	1
Endrin aldehyde	ND		2.1	0.53	ug/Kg	☼	07/21/17 06:42	07/22/17 13:45	1
Endrin ketone	ND		2.1	0.51	ug/Kg	☼	07/21/17 06:42	07/22/17 13:45	1
gamma-BHC (Lindane)	ND		2.1	0.38	ug/Kg	☼	07/21/17 06:42	07/22/17 13:45	1
gamma-Chlordane	ND		2.1	0.65	ug/Kg	☼	07/21/17 06:42	07/22/17 13:45	1
Heptachlor	ND		2.1	0.45	ug/Kg	☼	07/21/17 06:42	07/22/17 13:45	1

Client Sample ID: TP-01
Date Collected: 07/19/17 09:00
Date Received: 07/19/17 17:00

Lab Sample ID: 480-121321-1
Matrix: Solid
Percent Solids: 79.8

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor epoxide	ND		2.1	0.53	ug/Kg	☼	07/21/17 06:42	07/22/17 13:45	1
Methoxychlor	ND		2.1	0.42	ug/Kg	☼	07/21/17 06:42	07/22/17 13:45	1
Toxaphene	ND		21	12	ug/Kg	☼	07/21/17 06:42	07/22/17 13:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*87*		*45 - 120*	*07/21/17 06:42*	*07/22/17 13:45*	*1*
DCB Decachlorobiphenyl	*102*		*45 - 120*	*07/21/17 06:42*	*07/22/17 13:45*	*1*
Tetrachloro-m-xylene	*72*		*30 - 124*	*07/21/17 06:42*	*07/22/17 13:45*	*1*
Tetrachloro-m-xylene	*59*		*30 - 124*	*07/21/17 06:42*	*07/22/17 13:45*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.27	0.052	mg/Kg	☼	07/20/17 10:58	07/20/17 18:58	1
PCB-1221	ND		0.27	0.052	mg/Kg	☼	07/20/17 10:58	07/20/17 18:58	1
PCB-1232	ND		0.27	0.052	mg/Kg	☼	07/20/17 10:58	07/20/17 18:58	1
PCB-1242	ND		0.27	0.052	mg/Kg	☼	07/20/17 10:58	07/20/17 18:58	1
PCB-1248	ND		0.27	0.052	mg/Kg	☼	07/20/17 10:58	07/20/17 18:58	1
PCB-1254	ND		0.27	0.12	mg/Kg	☼	07/20/17 10:58	07/20/17 18:58	1
PCB-1260	ND		0.27	0.12	mg/Kg	☼	07/20/17 10:58	07/20/17 18:58	1
PCB-1262	ND		0.27	0.12	mg/Kg	☼	07/20/17 10:58	07/20/17 18:58	1
PCB-1268	ND		0.27	0.12	mg/Kg	☼	07/20/17 10:58	07/20/17 18:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*137*		*60 - 154*	*07/20/17 10:58*	*07/20/17 18:58*	*1*
Tetrachloro-m-xylene	*125*		*60 - 154*	*07/20/17 10:58*	*07/20/17 18:58*	*1*
DCB Decachlorobiphenyl	*115*		*65 - 174*	*07/20/17 10:58*	*07/20/17 18:58*	*1*
DCB Decachlorobiphenyl	*112*		*65 - 174*	*07/20/17 10:58*	*07/20/17 18:58*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**17800**		11.2	4.9	mg/Kg	☼	07/24/17 17:04	07/25/17 15:09	1
Antimony	ND		16.8	0.45	mg/Kg	☼	07/24/17 17:04	07/25/17 15:09	1
Arsenic	**3.8**		2.2	0.45	mg/Kg	☼	07/24/17 17:04	07/25/17 15:09	1
Barium	**82.0**		0.56	0.12	mg/Kg	☼	07/24/17 17:04	07/25/17 15:09	1
Beryllium	**0.90**		0.22	0.031	mg/Kg	☼	07/24/17 17:04	07/25/17 15:09	1
Cadmium	ND		0.22	0.034	mg/Kg	☼	07/24/17 17:04	07/25/17 15:09	1
Calcium	**4210**	**B**	55.9	3.7	mg/Kg	☼	07/24/17 17:04	07/25/17 15:09	1
Chromium	**22.5**		0.56	0.22	mg/Kg	☼	07/24/17 17:04	07/25/17 15:09	1
Cobalt	**6.8**		0.56	0.056	mg/Kg	☼	07/24/17 17:04	07/25/17 15:09	1
Copper	**19.9**		1.1	0.23	mg/Kg	☼	07/24/17 17:04	07/25/17 15:09	1
Iron	**26800**		11.2	3.9	mg/Kg	☼	07/24/17 17:04	07/25/17 15:09	1
Lead	**14.2**		1.1	0.27	mg/Kg	☼	07/24/17 17:04	07/25/17 15:09	1
Magnesium	**2800**		22.4	1.0	mg/Kg	☼	07/24/17 17:04	07/25/17 15:09	1
Manganese	**119**	**B ^**	0.22	0.036	mg/Kg	☼	07/24/17 17:04	07/25/17 15:09	1
Nickel	**18.4**		5.6	0.26	mg/Kg	☼	07/24/17 17:04	07/25/17 15:09	1
Potassium	**1710**		33.5	22.4	mg/Kg	☼	07/24/17 17:04	07/25/17 15:09	1
Selenium	ND		4.5	0.45	mg/Kg	☼	07/24/17 17:04	07/25/17 15:09	1
Silver	ND		0.67	0.22	mg/Kg	☼	07/24/17 17:04	07/25/17 15:09	1
Sodium	**98.6**	**J B**	157	14.5	mg/Kg	☼	07/24/17 17:04	07/25/17 15:09	1
Thallium	ND		6.7	0.34	mg/Kg	☼	07/24/17 17:04	07/25/17 15:09	1

Client Sample ID: TP-01

Date Collected: 07/19/17 09:00
Date Received: 07/19/17 17:00

Lab Sample ID: 480-121321-1

Matrix: Solid
Percent Solids: 79.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vanadium	41.2		0.56	0.12	mg/Kg	☼	07/24/17 17:04	07/25/17 15:09	1
Zinc	54.7		2.2	0.72	mg/Kg	☼	07/24/17 17:04	07/25/17 15:09	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.059		0.026	0.010	mg/Kg	☼	07/24/17 12:35	07/24/17 14:52	1

Client Sample ID: TP-03

Date Collected: 07/19/17 10:00
Date Received: 07/19/17 17:00

Lab Sample ID: 480-121321-2

Matrix: Solid
Percent Solids: 82.6

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	vs	6.0	0.44	ug/Kg	☼	07/25/17 08:33	07/25/17 13:52	1
1,1,2,2-Tetrachloroethane	ND	vs	6.0	0.98	ug/Kg	☼	07/25/17 08:33	07/25/17 13:52	1
1,1,2-Trichloroethane	ND	vs	6.0	0.78	ug/Kg	☼	07/25/17 08:33	07/25/17 13:52	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	vs	6.0	1.4	ug/Kg	☼	07/25/17 08:33	07/25/17 13:52	1
1,1-Dichloroethane	ND	vs	6.0	0.74	ug/Kg	☼	07/25/17 08:33	07/25/17 13:52	1
1,1-Dichloroethene	ND	vs	6.0	0.74	ug/Kg	☼	07/25/17 08:33	07/25/17 13:52	1
1,2,4-Trichlorobenzene	ND	vs	6.0	0.37	ug/Kg	☼	07/25/17 08:33	07/25/17 13:52	1
1,2-Dibromo-3-Chloropropane	ND	vs	6.0	3.0	ug/Kg	☼	07/25/17 08:33	07/25/17 13:52	1
1,2-Dibromoethane	ND	vs	6.0	0.77	ug/Kg	☼	07/25/17 08:33	07/25/17 13:52	1
1,2-Dichlorobenzene	ND	vs	6.0	0.47	ug/Kg	☼	07/25/17 08:33	07/25/17 13:52	1
1,2-Dichloroethane	ND	vs	6.0	0.30	ug/Kg	☼	07/25/17 08:33	07/25/17 13:52	1
1,2-Dichloropropane	ND	vs	6.0	3.0	ug/Kg	☼	07/25/17 08:33	07/25/17 13:52	1
1,3-Dichlorobenzene	ND	vs	6.0	0.31	ug/Kg	☼	07/25/17 08:33	07/25/17 13:52	1
1,4-Dichlorobenzene	ND	vs	6.0	0.84	ug/Kg	☼	07/25/17 08:33	07/25/17 13:52	1
2-Hexanone	ND	vs	30	3.0	ug/Kg	☼	07/25/17 08:33	07/25/17 13:52	1
2-Butanone (MEK)	ND	vs	30	2.2	ug/Kg	☼	07/25/17 08:33	07/25/17 13:52	1
4-Methyl-2-pentanone (MIBK)	ND	vs	30	2.0	ug/Kg	☼	07/25/17 08:33	07/25/17 13:52	1
Acetone	ND	vs	30	5.1	ug/Kg	☼	07/25/17 08:33	07/25/17 13:52	1
Benzene	ND	vs	6.0	0.30	ug/Kg	☼	07/25/17 08:33	07/25/17 13:52	1
Bromodichloromethane	ND	vs	6.0	0.81	ug/Kg	☼	07/25/17 08:33	07/25/17 13:52	1
Bromoform	ND	vs	6.0	3.0	ug/Kg	☼	07/25/17 08:33	07/25/17 13:52	1
Bromomethane	ND	vs	6.0	0.54	ug/Kg	☼	07/25/17 08:33	07/25/17 13:52	1
Carbon disulfide	ND	vs	6.0	3.0	ug/Kg	☼	07/25/17 08:33	07/25/17 13:52	1
Carbon tetrachloride	ND	vs	6.0	0.58	ug/Kg	☼	07/25/17 08:33	07/25/17 13:52	1
Chlorobenzene	ND	vs	6.0	0.80	ug/Kg	☼	07/25/17 08:33	07/25/17 13:52	1
Dibromochloromethane	ND	vs	6.0	0.77	ug/Kg	☼	07/25/17 08:33	07/25/17 13:52	1
Chloroethane	ND	* vs	6.0	1.4	ug/Kg	☼	07/25/17 08:33	07/25/17 13:52	1
Chloroform	ND	vs	6.0	0.37	ug/Kg	☼	07/25/17 08:33	07/25/17 13:52	1
Chloromethane	ND	vs	6.0	0.36	ug/Kg	☼	07/25/17 08:33	07/25/17 13:52	1
cis-1,2-Dichloroethene	ND	vs	6.0	0.77	ug/Kg	☼	07/25/17 08:33	07/25/17 13:52	1
cis-1,3-Dichloropropene	ND	vs	6.0	0.87	ug/Kg	☼	07/25/17 08:33	07/25/17 13:52	1
Cyclohexane	ND	vs	6.0	0.84	ug/Kg	☼	07/25/17 08:33	07/25/17 13:52	1
Dichlorodifluoromethane	ND	vs	6.0	0.50	ug/Kg	☼	07/25/17 08:33	07/25/17 13:52	1
Ethylbenzene	ND	vs	6.0	0.42	ug/Kg	☼	07/25/17 08:33	07/25/17 13:52	1
Isopropylbenzene	ND	vs	6.0	0.91	ug/Kg	☼	07/25/17 08:33	07/25/17 13:52	1
Methyl acetate	ND	vs	30	3.6	ug/Kg	☼	07/25/17 08:33	07/25/17 13:52	1
Methyl tert-butyl ether	ND	vs	6.0	0.59	ug/Kg	☼	07/25/17 08:33	07/25/17 13:52	1

Client Sample ID: TP-03
Date Collected: 07/19/17 10:00
Date Received: 07/19/17 17:00

Lab Sample ID: 480-121321-2
Matrix: Solid
Percent Solids: 82.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylcyclohexane	ND	vs	6.0	0.92	ug/Kg	☼	07/25/17 08:33	07/25/17 13:52	1
Methylene Chloride	ND	vs	6.0	2.8	ug/Kg	☼	07/25/17 08:33	07/25/17 13:52	1
Styrene	ND	vs	6.0	0.30	ug/Kg	☼	07/25/17 08:33	07/25/17 13:52	1
Tetrachloroethene	ND	vs	6.0	0.81	ug/Kg	☼	07/25/17 08:33	07/25/17 13:52	1
Toluene	ND	vs	6.0	0.46	ug/Kg	☼	07/25/17 08:33	07/25/17 13:52	1
trans-1,2-Dichloroethene	ND	vs	6.0	0.62	ug/Kg	☼	07/25/17 08:33	07/25/17 13:52	1
trans-1,3-Dichloropropene	ND	vs	6.0	2.7	ug/Kg	☼	07/25/17 08:33	07/25/17 13:52	1
Trichloroethene	ND	vs	6.0	1.3	ug/Kg	☼	07/25/17 08:33	07/25/17 13:52	1
Trichlorofluoromethane	ND	vs	6.0	0.57	ug/Kg	☼	07/25/17 08:33	07/25/17 13:52	1
Vinyl chloride	ND	vs	6.0	0.74	ug/Kg	☼	07/25/17 08:33	07/25/17 13:52	1
Xylenes, Total	ND	vs	12	1.0	ug/Kg	☼	07/25/17 08:33	07/25/17 13:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*64 - 126*	*07/25/17 08:33*	*07/25/17 13:52*	*1*
Toluene-d8 (Surr)	*96*		*71 - 125*	*07/25/17 08:33*	*07/25/17 13:52*	*1*
4-Bromofluorobenzene (Surr)	*95*		*72 - 126*	*07/25/17 08:33*	*07/25/17 13:52*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		210	30	ug/Kg	☼	07/20/17 07:46	07/25/17 18:01	1
bis (2-chloroisopropyl) ether	ND		210	41	ug/Kg	☼	07/20/17 07:46	07/25/17 18:01	1
2,4,5-Trichlorophenol	ND		210	56	ug/Kg	☼	07/20/17 07:46	07/25/17 18:01	1
2,4,6-Trichlorophenol	ND		210	41	ug/Kg	☼	07/20/17 07:46	07/25/17 18:01	1
2,4-Dichlorophenol	ND		210	22	ug/Kg	☼	07/20/17 07:46	07/25/17 18:01	1
2,4-Dimethylphenol	ND		210	50	ug/Kg	☼	07/20/17 07:46	07/25/17 18:01	1
2,4-Dinitrophenol	ND		2000	950	ug/Kg	☼	07/20/17 07:46	07/25/17 18:01	1
2,4-Dinitrotoluene	ND		210	42	ug/Kg	☼	07/20/17 07:46	07/25/17 18:01	1
2,6-Dinitrotoluene	ND		210	24	ug/Kg	☼	07/20/17 07:46	07/25/17 18:01	1
2-Chloronaphthalene	ND		210	34	ug/Kg	☼	07/20/17 07:46	07/25/17 18:01	1
2-Chlorophenol	ND		210	37	ug/Kg	☼	07/20/17 07:46	07/25/17 18:01	1
2-Methylnaphthalene	ND		210	41	ug/Kg	☼	07/20/17 07:46	07/25/17 18:01	1
2-Methylphenol	ND		210	24	ug/Kg	☼	07/20/17 07:46	07/25/17 18:01	1
2-Nitroaniline	ND		400	30	ug/Kg	☼	07/20/17 07:46	07/25/17 18:01	1
2-Nitrophenol	ND		210	58	ug/Kg	☼	07/20/17 07:46	07/25/17 18:01	1
3,3'-Dichlorobenzidine	ND		400	240	ug/Kg	☼	07/20/17 07:46	07/25/17 18:01	1
3-Nitroaniline	ND		400	57	ug/Kg	☼	07/20/17 07:46	07/25/17 18:01	1
4,6-Dinitro-2-methylphenol	ND		400	210	ug/Kg	☼	07/20/17 07:46	07/25/17 18:01	1
4-Bromophenyl phenyl ether	ND		210	29	ug/Kg	☼	07/20/17 07:46	07/25/17 18:01	1
4-Chloro-3-methylphenol	ND		210	51	ug/Kg	☼	07/20/17 07:46	07/25/17 18:01	1
4-Chloroaniline	ND		210	51	ug/Kg	☼	07/20/17 07:46	07/25/17 18:01	1
4-Chlorophenyl phenyl ether	ND		210	25	ug/Kg	☼	07/20/17 07:46	07/25/17 18:01	1
4-Methylphenol	ND		400	24	ug/Kg	☼	07/20/17 07:46	07/25/17 18:01	1
4-Nitroaniline	ND		400	110	ug/Kg	☼	07/20/17 07:46	07/25/17 18:01	1
4-Nitrophenol	ND		400	140	ug/Kg	☼	07/20/17 07:46	07/25/17 18:01	1
Acenaphthene	ND		210	30	ug/Kg	☼	07/20/17 07:46	07/25/17 18:01	1
Acenaphthylene	ND		210	27	ug/Kg	☼	07/20/17 07:46	07/25/17 18:01	1
Acetophenone	ND		210	28	ug/Kg	☼	07/20/17 07:46	07/25/17 18:01	1
Anthracene	ND		210	51	ug/Kg	☼	07/20/17 07:46	07/25/17 18:01	1
Atrazine	ND		210	71	ug/Kg	☼	07/20/17 07:46	07/25/17 18:01	1
Benzaldehyde	ND		210	160	ug/Kg	☼	07/20/17 07:46	07/25/17 18:01	1

Client Sample ID: TP-03
Date Collected: 07/19/17 10:00
Date Received: 07/19/17 17:00

Lab Sample ID: 480-121321-2
Matrix: Solid
Percent Solids: 82.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo(a)anthracene	ND		210	21	ug/Kg	☼	07/20/17 07:46	07/25/17 18:01	1
Benzo(a)pyrene	ND		210	30	ug/Kg	☼	07/20/17 07:46	07/25/17 18:01	1
Benzo(b)fluoranthene	ND		210	33	ug/Kg	☼	07/20/17 07:46	07/25/17 18:01	1
Benzo(g,h,i)perylene	ND		210	22	ug/Kg	☼	07/20/17 07:46	07/25/17 18:01	1
Benzo(k)fluoranthene	ND		210	27	ug/Kg	☼	07/20/17 07:46	07/25/17 18:01	1
Bis(2-chloroethoxy)methane	ND		210	43	ug/Kg	☼	07/20/17 07:46	07/25/17 18:01	1
Bis(2-chloroethyl)ether	ND		210	27	ug/Kg	☼	07/20/17 07:46	07/25/17 18:01	1
Bis(2-ethylhexyl) phthalate	ND		210	70	ug/Kg	☼	07/20/17 07:46	07/25/17 18:01	1
Butyl benzyl phthalate	ND		210	34	ug/Kg	☼	07/20/17 07:46	07/25/17 18:01	1
Caprolactam	ND		210	62	ug/Kg	☼	07/20/17 07:46	07/25/17 18:01	1
Carbazole	ND		210	24	ug/Kg	☼	07/20/17 07:46	07/25/17 18:01	1
Chrysene	ND		210	46	ug/Kg	☼	07/20/17 07:46	07/25/17 18:01	1
Di-n-butyl phthalate	ND		210	35	ug/Kg	☼	07/20/17 07:46	07/25/17 18:01	1
Di-n-octyl phthalate	ND		210	24	ug/Kg	☼	07/20/17 07:46	07/25/17 18:01	1
Dibenz(a,h)anthracene	ND		210	36	ug/Kg	☼	07/20/17 07:46	07/25/17 18:01	1
Dibenzofuran	ND		210	24	ug/Kg	☼	07/20/17 07:46	07/25/17 18:01	1
Diethyl phthalate	ND		210	27	ug/Kg	☼	07/20/17 07:46	07/25/17 18:01	1
Dimethyl phthalate	ND		210	24	ug/Kg	☼	07/20/17 07:46	07/25/17 18:01	1
Fluoranthene	ND		210	22	ug/Kg	☼	07/20/17 07:46	07/25/17 18:01	1
Fluorene	ND		210	24	ug/Kg	☼	07/20/17 07:46	07/25/17 18:01	1
Hexachlorobenzene	ND		210	28	ug/Kg	☼	07/20/17 07:46	07/25/17 18:01	1
Hexachlorobutadiene	ND		210	30	ug/Kg	☼	07/20/17 07:46	07/25/17 18:01	1
Hexachlorocyclopentadiene	ND		210	28	ug/Kg	☼	07/20/17 07:46	07/25/17 18:01	1
Hexachloroethane	ND		210	27	ug/Kg	☼	07/20/17 07:46	07/25/17 18:01	1
Indeno(1,2,3-cd)pyrene	ND		210	25	ug/Kg	☼	07/20/17 07:46	07/25/17 18:01	1
Isophorone	ND		210	43	ug/Kg	☼	07/20/17 07:46	07/25/17 18:01	1
N-Nitrosodi-n-propylamine	ND		210	35	ug/Kg	☼	07/20/17 07:46	07/25/17 18:01	1
N-Nitrosodiphenylamine	ND		210	170	ug/Kg	☼	07/20/17 07:46	07/25/17 18:01	1
Naphthalene	ND		210	27	ug/Kg	☼	07/20/17 07:46	07/25/17 18:01	1
Nitrobenzene	ND		210	23	ug/Kg	☼	07/20/17 07:46	07/25/17 18:01	1
Pentachlorophenol	ND		400	210	ug/Kg	☼	07/20/17 07:46	07/25/17 18:01	1
Phenanthrene	ND		210	30	ug/Kg	☼	07/20/17 07:46	07/25/17 18:01	1
Phenol	ND		210	31	ug/Kg	☼	07/20/17 07:46	07/25/17 18:01	1
Pyrene	ND		210	24	ug/Kg	☼	07/20/17 07:46	07/25/17 18:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*89*		*54 - 120*	*07/20/17 07:46*	*07/25/17 18:01*	*1*
2-Fluorobiphenyl	*78*		*60 - 120*	*07/20/17 07:46*	*07/25/17 18:01*	*1*
2-Fluorophenol	*69*		*52 - 120*	*07/20/17 07:46*	*07/25/17 18:01*	*1*
Nitrobenzene-d5	*78*		*53 - 120*	*07/20/17 07:46*	*07/25/17 18:01*	*1*
p-Terphenyl-d14	*95*		*65 - 121*	*07/20/17 07:46*	*07/25/17 18:01*	*1*
Phenol-d5	*66*		*54 - 120*	*07/20/17 07:46*	*07/25/17 18:01*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.0	0.39	ug/Kg	☼	07/21/17 06:42	07/22/17 14:04	1
4,4'-DDE	ND		2.0	0.42	ug/Kg	☼	07/21/17 06:42	07/22/17 14:04	1
4,4'-DDT	ND		2.0	0.46	ug/Kg	☼	07/21/17 06:42	07/22/17 14:04	1
Aldrin	ND		2.0	0.49	ug/Kg	☼	07/21/17 06:42	07/22/17 14:04	1
alpha-BHC	ND		2.0	0.36	ug/Kg	☼	07/21/17 06:42	07/22/17 14:04	1

Client Sample ID: TP-03
Date Collected: 07/19/17 10:00
Date Received: 07/19/17 17:00

Lab Sample ID: 480-121321-2
Matrix: Solid
Percent Solids: 82.6

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-Chlordane	ND		2.0	0.99	ug/Kg	☼	07/21/17 06:42	07/22/17 14:04	1
beta-BHC	ND		2.0	0.36	ug/Kg	☼	07/21/17 06:42	07/22/17 14:04	1
delta-BHC	**0.55**	**J**	2.0	0.37	ug/Kg	☼	07/21/17 06:42	07/22/17 14:04	1
Dieldrin	ND		2.0	0.48	ug/Kg	☼	07/21/17 06:42	07/22/17 14:04	1
Endosulfan I	ND		2.0	0.38	ug/Kg	☼	07/21/17 06:42	07/22/17 14:04	1
Endosulfan II	ND		2.0	0.36	ug/Kg	☼	07/21/17 06:42	07/22/17 14:04	1
Endosulfan sulfate	ND		2.0	0.37	ug/Kg	☼	07/21/17 06:42	07/22/17 14:04	1
Endrin	ND		2.0	0.39	ug/Kg	☼	07/21/17 06:42	07/22/17 14:04	1
Endrin aldehyde	ND		2.0	0.51	ug/Kg	☼	07/21/17 06:42	07/22/17 14:04	1
Endrin ketone	ND		2.0	0.49	ug/Kg	☼	07/21/17 06:42	07/22/17 14:04	1
gamma-BHC (Lindane)	ND		2.0	0.36	ug/Kg	☼	07/21/17 06:42	07/22/17 14:04	1
gamma-Chlordane	ND		2.0	0.63	ug/Kg	☼	07/21/17 06:42	07/22/17 14:04	1
Heptachlor	ND		2.0	0.43	ug/Kg	☼	07/21/17 06:42	07/22/17 14:04	1
Heptachlor epoxide	ND		2.0	0.51	ug/Kg	☼	07/21/17 06:42	07/22/17 14:04	1
Methoxychlor	ND		2.0	0.40	ug/Kg	☼	07/21/17 06:42	07/22/17 14:04	1
Toxaphene	ND		20	12	ug/Kg	☼	07/21/17 06:42	07/22/17 14:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*95*		*45 - 120*	*07/21/17 06:42*	*07/22/17 14:04*	*1*
DCB Decachlorobiphenyl	*107*		*45 - 120*	*07/21/17 06:42*	*07/22/17 14:04*	*1*
Tetrachloro-m-xylene	*73*		*30 - 124*	*07/21/17 06:42*	*07/22/17 14:04*	*1*
Tetrachloro-m-xylene	*73*		*30 - 124*	*07/21/17 06:42*	*07/22/17 14:04*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.21	0.041	mg/Kg	☼	07/20/17 10:58	07/20/17 19:13	1
PCB-1221	ND		0.21	0.041	mg/Kg	☼	07/20/17 10:58	07/20/17 19:13	1
PCB-1232	ND		0.21	0.041	mg/Kg	☼	07/20/17 10:58	07/20/17 19:13	1
PCB-1242	ND		0.21	0.041	mg/Kg	☼	07/20/17 10:58	07/20/17 19:13	1
PCB-1248	ND		0.21	0.041	mg/Kg	☼	07/20/17 10:58	07/20/17 19:13	1
PCB-1254	ND		0.21	0.099	mg/Kg	☼	07/20/17 10:58	07/20/17 19:13	1
PCB-1260	ND		0.21	0.099	mg/Kg	☼	07/20/17 10:58	07/20/17 19:13	1
PCB-1262	ND		0.21	0.099	mg/Kg	☼	07/20/17 10:58	07/20/17 19:13	1
PCB-1268	ND		0.21	0.099	mg/Kg	☼	07/20/17 10:58	07/20/17 19:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*142*		*60 - 154*	*07/20/17 10:58*	*07/20/17 19:13*	*1*
Tetrachloro-m-xylene	*147*		*60 - 154*	*07/20/17 10:58*	*07/20/17 19:13*	*1*
DCB Decachlorobiphenyl	*134*		*65 - 174*	*07/20/17 10:58*	*07/20/17 19:13*	*1*
DCB Decachlorobiphenyl	*126*		*65 - 174*	*07/20/17 10:58*	*07/20/17 19:13*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**14600**		11.3	5.0	mg/Kg	☼	07/24/17 17:04	07/25/17 15:13	1
Antimony	ND		16.9	0.45	mg/Kg	☼	07/24/17 17:04	07/25/17 15:13	1
Arsenic	**2.2**	**J**	2.3	0.45	mg/Kg	☼	07/24/17 17:04	07/25/17 15:13	1
Barium	**66.5**		0.56	0.12	mg/Kg	☼	07/24/17 17:04	07/25/17 15:13	1
Beryllium	**0.42**		0.23	0.032	mg/Kg	☼	07/24/17 17:04	07/25/17 15:13	1
Cadmium	ND		0.23	0.034	mg/Kg	☼	07/24/17 17:04	07/25/17 15:13	1
Calcium	**8920**	**B**	56.4	3.7	mg/Kg	☼	07/24/17 17:04	07/25/17 15:13	1

Client Sample ID: TP-03

Date Collected: 07/19/17 10:00
Date Received: 07/19/17 17:00

Lab Sample ID: 480-121321-2

Matrix: Solid
Percent Solids: 82.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	16.3		0.56	0.23	mg/Kg	☼	07/24/17 17:04	07/25/17 15:13	1
Cobalt	4.2		0.56	0.056	mg/Kg	☼	07/24/17 17:04	07/25/17 15:13	1
Copper	5.9		1.1	0.24	mg/Kg	☼	07/24/17 17:04	07/25/17 15:13	1
Iron	10500		11.3	3.9	mg/Kg	☼	07/24/17 17:04	07/25/17 15:13	1
Lead	7.0		1.1	0.27	mg/Kg	☼	07/24/17 17:04	07/25/17 15:13	1
Magnesium	2280		22.6	1.0	mg/Kg	☼	07/24/17 17:04	07/25/17 15:13	1
Manganese	56.8	B ^	0.23	0.036	mg/Kg	☼	07/24/17 17:04	07/25/17 15:13	1
Nickel	12.6		5.6	0.26	mg/Kg	☼	07/24/17 17:04	07/25/17 15:13	1
Potassium	1440		33.8	22.6	mg/Kg	☼	07/24/17 17:04	07/25/17 15:13	1
Selenium	ND		4.5	0.45	mg/Kg	☼	07/24/17 17:04	07/25/17 15:13	1
Silver	ND		0.68	0.23	mg/Kg	☼	07/24/17 17:04	07/25/17 15:13	1
Sodium	201	B	158	14.7	mg/Kg	☼	07/24/17 17:04	07/25/17 15:13	1
Thallium	ND		6.8	0.34	mg/Kg	☼	07/24/17 17:04	07/25/17 15:13	1
Vanadium	28.0		0.56	0.12	mg/Kg	☼	07/24/17 17:04	07/25/17 15:13	1
Zinc	38.1		2.3	0.72	mg/Kg	☼	07/24/17 17:04	07/25/17 15:13	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.036		0.024	0.0098	mg/Kg	☼	07/24/17 12:35	07/24/17 14:53	1

Client Sample ID: TP-18

Date Collected: 07/19/17 11:00
Date Received: 07/19/17 17:00

Lab Sample ID: 480-121321-3

Matrix: Solid
Percent Solids: 78.1

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	vs	6.4	0.46	ug/Kg	☼	07/25/17 08:33	07/25/17 14:18	1
1,1,2,2-Tetrachloroethane	ND	vs	6.4	1.0	ug/Kg	☼	07/25/17 08:33	07/25/17 14:18	1
1,1,2-Trichloroethane	ND	vs	6.4	0.83	ug/Kg	☼	07/25/17 08:33	07/25/17 14:18	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	vs	6.4	1.5	ug/Kg	☼	07/25/17 08:33	07/25/17 14:18	1
1,1-Dichloroethane	ND	vs	6.4	0.78	ug/Kg	☼	07/25/17 08:33	07/25/17 14:18	1
1,1-Dichloroethene	ND	vs	6.4	0.78	ug/Kg	☼	07/25/17 08:33	07/25/17 14:18	1
1,2,4-Trichlorobenzene	ND	vs	6.4	0.39	ug/Kg	☼	07/25/17 08:33	07/25/17 14:18	1
1,2-Dibromo-3-Chloropropane	ND	vs	6.4	3.2	ug/Kg	☼	07/25/17 08:33	07/25/17 14:18	1
1,2-Dibromoethane	ND	vs	6.4	0.82	ug/Kg	☼	07/25/17 08:33	07/25/17 14:18	1
1,2-Dichlorobenzene	ND	vs	6.4	0.50	ug/Kg	☼	07/25/17 08:33	07/25/17 14:18	1
1,2-Dichloroethane	ND	vs	6.4	0.32	ug/Kg	☼	07/25/17 08:33	07/25/17 14:18	1
1,2-Dichloropropane	ND	vs	6.4	3.2	ug/Kg	☼	07/25/17 08:33	07/25/17 14:18	1
1,3-Dichlorobenzene	ND	vs	6.4	0.33	ug/Kg	☼	07/25/17 08:33	07/25/17 14:18	1
1,4-Dichlorobenzene	ND	vs	6.4	0.89	ug/Kg	☼	07/25/17 08:33	07/25/17 14:18	1
2-Hexanone	ND	vs	32	3.2	ug/Kg	☼	07/25/17 08:33	07/25/17 14:18	1
2-Butanone (MEK)	ND	vs	32	2.3	ug/Kg	☼	07/25/17 08:33	07/25/17 14:18	1
4-Methyl-2-pentanone (MIBK)	ND	vs	32	2.1	ug/Kg	☼	07/25/17 08:33	07/25/17 14:18	1
Acetone	ND	vs	32	5.4	ug/Kg	☼	07/25/17 08:33	07/25/17 14:18	1
Benzene	ND	vs	6.4	0.31	ug/Kg	☼	07/25/17 08:33	07/25/17 14:18	1
Bromodichloromethane	ND	vs	6.4	0.85	ug/Kg	☼	07/25/17 08:33	07/25/17 14:18	1
Bromoform	ND	vs	6.4	3.2	ug/Kg	☼	07/25/17 08:33	07/25/17 14:18	1
Bromomethane	ND	vs	6.4	0.57	ug/Kg	☼	07/25/17 08:33	07/25/17 14:18	1
Carbon disulfide	ND	vs	6.4	3.2	ug/Kg	☼	07/25/17 08:33	07/25/17 14:18	1
Carbon tetrachloride	ND	vs	6.4	0.62	ug/Kg	☼	07/25/17 08:33	07/25/17 14:18	1

Client Sample ID: TP-18
Date Collected: 07/19/17 11:00
Date Received: 07/19/17 17:00

Lab Sample ID: 480-121321-3
Matrix: Solid
Percent Solids: 78.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	ND	vs	6.4	0.84	ug/Kg	☼	07/25/17 08:33	07/25/17 14:18	1
Dibromochloromethane	ND	vs	6.4	0.81	ug/Kg	☼	07/25/17 08:33	07/25/17 14:18	1
Chloroethane	ND	* vs	6.4	1.4	ug/Kg	☼	07/25/17 08:33	07/25/17 14:18	1
Chloroform	ND	vs	6.4	0.39	ug/Kg	☼	07/25/17 08:33	07/25/17 14:18	1
Chloromethane	ND	vs	6.4	0.38	ug/Kg	☼	07/25/17 08:33	07/25/17 14:18	1
cis-1,2-Dichloroethene	ND	vs	6.4	0.81	ug/Kg	☼	07/25/17 08:33	07/25/17 14:18	1
cis-1,3-Dichloropropene	ND	vs	6.4	0.92	ug/Kg	☼	07/25/17 08:33	07/25/17 14:18	1
Cyclohexane	ND	vs	6.4	0.89	ug/Kg	☼	07/25/17 08:33	07/25/17 14:18	1
Dichlorodifluoromethane	ND	vs	6.4	0.53	ug/Kg	☼	07/25/17 08:33	07/25/17 14:18	1
Ethylbenzene	ND	vs	6.4	0.44	ug/Kg	☼	07/25/17 08:33	07/25/17 14:18	1
Isopropylbenzene	ND	vs	6.4	0.96	ug/Kg	☼	07/25/17 08:33	07/25/17 14:18	1
Methyl acetate	ND	vs	32	3.8	ug/Kg	☼	07/25/17 08:33	07/25/17 14:18	1
Methyl tert-butyl ether	ND	vs	6.4	0.63	ug/Kg	☼	07/25/17 08:33	07/25/17 14:18	1
Methylcyclohexane	ND	vs	6.4	0.97	ug/Kg	☼	07/25/17 08:33	07/25/17 14:18	1
Methylene Chloride	ND	vs	6.4	2.9	ug/Kg	☼	07/25/17 08:33	07/25/17 14:18	1
Styrene	ND	vs	6.4	0.32	ug/Kg	☼	07/25/17 08:33	07/25/17 14:18	1
Tetrachloroethene	ND	vs	6.4	0.85	ug/Kg	☼	07/25/17 08:33	07/25/17 14:18	1
Toluene	ND	vs	6.4	0.48	ug/Kg	☼	07/25/17 08:33	07/25/17 14:18	1
trans-1,2-Dichloroethene	ND	vs	6.4	0.66	ug/Kg	☼	07/25/17 08:33	07/25/17 14:18	1
trans-1,3-Dichloropropene	ND	vs	6.4	2.8	ug/Kg	☼	07/25/17 08:33	07/25/17 14:18	1
Trichloroethene	ND	vs	6.4	1.4	ug/Kg	☼	07/25/17 08:33	07/25/17 14:18	1
Trichlorofluoromethane	ND	vs	6.4	0.60	ug/Kg	☼	07/25/17 08:33	07/25/17 14:18	1
Vinyl chloride	ND	vs	6.4	0.78	ug/Kg	☼	07/25/17 08:33	07/25/17 14:18	1
Xylenes, Total	ND	vs	13	1.1	ug/Kg	☼	07/25/17 08:33	07/25/17 14:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*64 - 126*	*07/25/17 08:33*	*07/25/17 14:18*	*1*
Toluene-d8 (Surr)	*100*		*71 - 125*	*07/25/17 08:33*	*07/25/17 14:18*	*1*
4-Bromofluorobenzene (Surr)	*90*		*72 - 126*	*07/25/17 08:33*	*07/25/17 14:18*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		2100	310	ug/Kg	☼	07/20/17 07:46	07/26/17 23:46	10
bis (2-chloroisopropyl) ether	ND		2100	430	ug/Kg	☼	07/20/17 07:46	07/26/17 23:46	10
2,4,5-Trichlorophenol	ND		2100	580	ug/Kg	☼	07/20/17 07:46	07/26/17 23:46	10
2,4,6-Trichlorophenol	ND		2100	430	ug/Kg	☼	07/20/17 07:46	07/26/17 23:46	10
2,4-Dichlorophenol	ND		2100	230	ug/Kg	☼	07/20/17 07:46	07/26/17 23:46	10
2,4-Dimethylphenol	ND		2100	520	ug/Kg	☼	07/20/17 07:46	07/26/17 23:46	10
2,4-Dinitrophenol	ND		21000	9900	ug/Kg	☼	07/20/17 07:46	07/26/17 23:46	10
2,4-Dinitrotoluene	ND		2100	440	ug/Kg	☼	07/20/17 07:46	07/26/17 23:46	10
2,6-Dinitrotoluene	ND		2100	250	ug/Kg	☼	07/20/17 07:46	07/26/17 23:46	10
2-Chloronaphthalene	ND		2100	350	ug/Kg	☼	07/20/17 07:46	07/26/17 23:46	10
2-Chlorophenol	ND		2100	390	ug/Kg	☼	07/20/17 07:46	07/26/17 23:46	10
2-Methylnaphthalene	ND		2100	430	ug/Kg	☼	07/20/17 07:46	07/26/17 23:46	10
2-Methylphenol	ND		2100	250	ug/Kg	☼	07/20/17 07:46	07/26/17 23:46	10
2-Nitroaniline	ND		4200	310	ug/Kg	☼	07/20/17 07:46	07/26/17 23:46	10
2-Nitrophenol	ND		2100	600	ug/Kg	☼	07/20/17 07:46	07/26/17 23:46	10
3,3'-Dichlorobenzidine	ND		4200	2500	ug/Kg	☼	07/20/17 07:46	07/26/17 23:46	10
3-Nitroaniline	ND		4200	590	ug/Kg	☼	07/20/17 07:46	07/26/17 23:46	10
4,6-Dinitro-2-methylphenol	ND		4200	2100	ug/Kg	☼	07/20/17 07:46	07/26/17 23:46	10

Client Sample ID: TP-18
Date Collected: 07/19/17 11:00
Date Received: 07/19/17 17:00

Lab Sample ID: 480-121321-3
Matrix: Solid
Percent Solids: 78.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Bromophenyl phenyl ether	ND		2100	300	ug/Kg	☼	07/20/17 07:46	07/26/17 23:46	10
4-Chloro-3-methylphenol	ND		2100	530	ug/Kg	☼	07/20/17 07:46	07/26/17 23:46	10
4-Chloroaniline	ND		2100	530	ug/Kg	☼	07/20/17 07:46	07/26/17 23:46	10
4-Chlorophenyl phenyl ether	ND		2100	260	ug/Kg	☼	07/20/17 07:46	07/26/17 23:46	10
4-Methylphenol	ND		4200	250	ug/Kg	☼	07/20/17 07:46	07/26/17 23:46	10
4-Nitroaniline	ND		4200	1100	ug/Kg	☼	07/20/17 07:46	07/26/17 23:46	10
4-Nitrophenol	ND		4200	1500	ug/Kg	☼	07/20/17 07:46	07/26/17 23:46	10
Acenaphthene	ND		2100	310	ug/Kg	☼	07/20/17 07:46	07/26/17 23:46	10
Acenaphthylene	ND		2100	280	ug/Kg	☼	07/20/17 07:46	07/26/17 23:46	10
Acetophenone	ND		2100	290	ug/Kg	☼	07/20/17 07:46	07/26/17 23:46	10
Anthracene	ND		2100	530	ug/Kg	☼	07/20/17 07:46	07/26/17 23:46	10
Atrazine	ND		2100	740	ug/Kg	☼	07/20/17 07:46	07/26/17 23:46	10
Benzaldehyde	ND		2100	1700	ug/Kg	☼	07/20/17 07:46	07/26/17 23:46	10
Benzo(a)anthracene	ND		2100	210	ug/Kg	☼	07/20/17 07:46	07/26/17 23:46	10
Benzo(a)pyrene	ND		2100	310	ug/Kg	☼	07/20/17 07:46	07/26/17 23:46	10
Benzo(b)fluoranthene	ND		2100	340	ug/Kg	☼	07/20/17 07:46	07/26/17 23:46	10
Benzo(g,h,i)perylene	ND		2100	230	ug/Kg	☼	07/20/17 07:46	07/26/17 23:46	10
Benzo(k)fluoranthene	ND		2100	280	ug/Kg	☼	07/20/17 07:46	07/26/17 23:46	10
Bis(2-chloroethoxy)methane	ND		2100	450	ug/Kg	☼	07/20/17 07:46	07/26/17 23:46	10
Bis(2-chloroethyl)ether	ND		2100	280	ug/Kg	☼	07/20/17 07:46	07/26/17 23:46	10
Bis(2-ethylhexyl) phthalate	ND		2100	730	ug/Kg	☼	07/20/17 07:46	07/26/17 23:46	10
Butyl benzyl phthalate	ND		2100	350	ug/Kg	☼	07/20/17 07:46	07/26/17 23:46	10
Caprolactam	ND		2100	640	ug/Kg	☼	07/20/17 07:46	07/26/17 23:46	10
Carbazole	ND		2100	250	ug/Kg	☼	07/20/17 07:46	07/26/17 23:46	10
Chrysene	ND		2100	480	ug/Kg	☼	07/20/17 07:46	07/26/17 23:46	10
Di-n-butyl phthalate	ND		2100	360	ug/Kg	☼	07/20/17 07:46	07/26/17 23:46	10
Di-n-octyl phthalate	ND		2100	250	ug/Kg	☼	07/20/17 07:46	07/26/17 23:46	10
Dibenz(a,h)anthracene	ND		2100	380	ug/Kg	☼	07/20/17 07:46	07/26/17 23:46	10
Dibenzofuran	ND		2100	250	ug/Kg	☼	07/20/17 07:46	07/26/17 23:46	10
Diethyl phthalate	ND		2100	280	ug/Kg	☼	07/20/17 07:46	07/26/17 23:46	10
Dimethyl phthalate	ND		2100	250	ug/Kg	☼	07/20/17 07:46	07/26/17 23:46	10
Fluoranthene	ND		2100	230	ug/Kg	☼	07/20/17 07:46	07/26/17 23:46	10
Fluorene	ND		2100	250	ug/Kg	☼	07/20/17 07:46	07/26/17 23:46	10
Hexachlorobenzene	ND		2100	290	ug/Kg	☼	07/20/17 07:46	07/26/17 23:46	10
Hexachlorobutadiene	ND		2100	310	ug/Kg	☼	07/20/17 07:46	07/26/17 23:46	10
Hexachlorocyclopentadiene	ND		2100	290	ug/Kg	☼	07/20/17 07:46	07/26/17 23:46	10
Hexachloroethane	ND		2100	280	ug/Kg	☼	07/20/17 07:46	07/26/17 23:46	10
Indeno(1,2,3-cd)pyrene	ND		2100	260	ug/Kg	☼	07/20/17 07:46	07/26/17 23:46	10
Isophorone	ND		2100	450	ug/Kg	☼	07/20/17 07:46	07/26/17 23:46	10
N-Nitrosodi-n-propylamine	ND		2100	360	ug/Kg	☼	07/20/17 07:46	07/26/17 23:46	10
N-Nitrosodiphenylamine	ND		2100	1700	ug/Kg	☼	07/20/17 07:46	07/26/17 23:46	10
Naphthalene	ND		2100	280	ug/Kg	☼	07/20/17 07:46	07/26/17 23:46	10
Nitrobenzene	ND		2100	240	ug/Kg	☼	07/20/17 07:46	07/26/17 23:46	10
Pentachlorophenol	ND		4200	2100	ug/Kg	☼	07/20/17 07:46	07/26/17 23:46	10
Phenanthrene	ND		2100	310	ug/Kg	☼	07/20/17 07:46	07/26/17 23:46	10
Phenol	ND		2100	330	ug/Kg	☼	07/20/17 07:46	07/26/17 23:46	10
Pyrene	ND		2100	250	ug/Kg	☼	07/20/17 07:46	07/26/17 23:46	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*94*		*54 - 120*	*07/20/17 07:46*	*07/26/17 23:46*	*10*

Client Sample ID: TP-18
Date Collected: 07/19/17 11:00
Date Received: 07/19/17 17:00

Lab Sample ID: 480-121321-3
Matrix: Solid
Percent Solids: 78.1

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*45*	*X*	*60 - 120*	*07/20/17 07:46*	*07/26/17 23:46*	*10*
2-Fluorophenol	*60*		*52 - 120*	*07/20/17 07:46*	*07/26/17 23:46*	*10*
Nitrobenzene-d5	*65*		*53 - 120*	*07/20/17 07:46*	*07/26/17 23:46*	*10*
p-Terphenyl-d14	*83*		*65 - 121*	*07/20/17 07:46*	*07/26/17 23:46*	*10*
Phenol-d5	*58*		*54 - 120*	*07/20/17 07:46*	*07/26/17 23:46*	*10*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	**20**	**J**	42	8.2	ug/Kg	☼	07/21/17 06:42	07/22/17 14:24	20
4,4'-DDE	**9.1**	**J**	42	8.9	ug/Kg	☼	07/21/17 06:42	07/22/17 14:24	20
4,4'-DDT	ND		42	9.9	ug/Kg	☼	07/21/17 06:42	07/22/17 14:24	20
Aldrin	ND		42	10	ug/Kg	☼	07/21/17 06:42	07/22/17 14:24	20
alpha-BHC	ND		42	7.6	ug/Kg	☼	07/21/17 06:42	07/22/17 14:24	20
alpha-Chlordane	ND		42	21	ug/Kg	☼	07/21/17 06:42	07/22/17 14:24	20
beta-BHC	ND		42	7.6	ug/Kg	☼	07/21/17 06:42	07/22/17 14:24	20
delta-BHC	ND		42	7.9	ug/Kg	☼	07/21/17 06:42	07/22/17 14:24	20
Dieldrin	ND		42	10	ug/Kg	☼	07/21/17 06:42	07/22/17 14:24	20
Endosulfan I	ND		42	8.1	ug/Kg	☼	07/21/17 06:42	07/22/17 14:24	20
Endosulfan II	ND		42	7.6	ug/Kg	☼	07/21/17 06:42	07/22/17 14:24	20
Endosulfan sulfate	ND		42	7.9	ug/Kg	☼	07/21/17 06:42	07/22/17 14:24	20
Endrin	ND		42	8.4	ug/Kg	☼	07/21/17 06:42	07/22/17 14:24	20
Endrin aldehyde	ND		42	11	ug/Kg	☼	07/21/17 06:42	07/22/17 14:24	20
Endrin ketone	ND		42	10	ug/Kg	☼	07/21/17 06:42	07/22/17 14:24	20
gamma-BHC (Lindane)	ND		42	7.8	ug/Kg	☼	07/21/17 06:42	07/22/17 14:24	20
gamma-Chlordane	ND		42	13	ug/Kg	☼	07/21/17 06:42	07/22/17 14:24	20
Heptachlor	ND		42	9.1	ug/Kg	☼	07/21/17 06:42	07/22/17 14:24	20
Heptachlor epoxide	ND		42	11	ug/Kg	☼	07/21/17 06:42	07/22/17 14:24	20
Methoxychlor	ND		42	8.6	ug/Kg	☼	07/21/17 06:42	07/22/17 14:24	20
Toxaphene	ND		420	250	ug/Kg	☼	07/21/17 06:42	07/22/17 14:24	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*114*		*45 - 120*	*07/21/17 06:42*	*07/22/17 14:24*	*20*
DCB Decachlorobiphenyl	*127*	*X*	*45 - 120*	*07/21/17 06:42*	*07/22/17 14:24*	*20*
Tetrachloro-m-xylene	*207*	*X*	*30 - 124*	*07/21/17 06:42*	*07/22/17 14:24*	*20*
Tetrachloro-m-xylene	*108*		*30 - 124*	*07/21/17 06:42*	*07/22/17 14:24*	*20*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.24	0.047	mg/Kg	☼	07/20/17 10:58	07/20/17 19:29	1
PCB-1221	ND		0.24	0.047	mg/Kg	☼	07/20/17 10:58	07/20/17 19:29	1
PCB-1232	ND		0.24	0.047	mg/Kg	☼	07/20/17 10:58	07/20/17 19:29	1
PCB-1242	ND		0.24	0.047	mg/Kg	☼	07/20/17 10:58	07/20/17 19:29	1
PCB-1248	**0.51**		0.24	0.047	mg/Kg	☼	07/20/17 10:58	07/20/17 19:29	1
PCB-1254	ND		0.24	0.11	mg/Kg	☼	07/20/17 10:58	07/20/17 19:29	1
PCB-1260	ND		0.24	0.11	mg/Kg	☼	07/20/17 10:58	07/20/17 19:29	1
PCB-1262	ND		0.24	0.11	mg/Kg	☼	07/20/17 10:58	07/20/17 19:29	1
PCB-1268	ND		0.24	0.11	mg/Kg	☼	07/20/17 10:58	07/20/17 19:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*144*		*60 - 154*	*07/20/17 10:58*	*07/20/17 19:29*	*1*

Client Sample ID: TP-18

Date Collected: 07/19/17 11:00
Date Received: 07/19/17 17:00

Lab Sample ID: 480-121321-3

Matrix: Solid
Percent Solids: 78.1

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*133*		*60 - 154*	*07/20/17 10:58*	*07/20/17 19:29*	*1*
DCB Decachlorobiphenyl	*125*		*65 - 174*	*07/20/17 10:58*	*07/20/17 19:29*	*1*
DCB Decachlorobiphenyl	*119*		*65 - 174*	*07/20/17 10:58*	*07/20/17 19:29*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**10500**		12.3	5.4	mg/Kg	☼	07/24/17 17:04	07/25/17 15:16	1
Antimony	ND		18.4	0.49	mg/Kg	☼	07/24/17 17:04	07/25/17 15:16	1
Arsenic	**3.7**		2.5	0.49	mg/Kg	☼	07/24/17 17:04	07/25/17 15:16	1
Barium	**55.2**		0.61	0.14	mg/Kg	☼	07/24/17 17:04	07/25/17 15:16	1
Beryllium	**0.37**		0.25	0.034	mg/Kg	☼	07/24/17 17:04	07/25/17 15:16	1
Cadmium	**1.4**		0.25	0.037	mg/Kg	☼	07/24/17 17:04	07/25/17 15:16	1
Calcium	**38300**	**B**	61.5	4.1	mg/Kg	☼	07/24/17 17:04	07/25/17 15:16	1
Chromium	**16.7**		0.61	0.25	mg/Kg	☼	07/24/17 17:04	07/25/17 15:16	1
Cobalt	**5.5**		0.61	0.061	mg/Kg	☼	07/24/17 17:04	07/25/17 15:16	1
Copper	**39.2**		1.2	0.26	mg/Kg	☼	07/24/17 17:04	07/25/17 15:16	1
Iron	**15500**		12.3	4.3	mg/Kg	☼	07/24/17 17:04	07/25/17 15:16	1
Lead	**27.9**		1.2	0.30	mg/Kg	☼	07/24/17 17:04	07/25/17 15:16	1
Magnesium	**13300**		24.6	1.1	mg/Kg	☼	07/24/17 17:04	07/25/17 15:16	1
Manganese	**302**	**B ^**	0.25	0.039	mg/Kg	☼	07/24/17 17:04	07/25/17 15:16	1
Nickel	**16.6**		6.1	0.28	mg/Kg	☼	07/24/17 17:04	07/25/17 15:16	1
Potassium	**1940**		36.9	24.6	mg/Kg	☼	07/24/17 17:04	07/25/17 15:16	1
Selenium	ND		4.9	0.49	mg/Kg	☼	07/24/17 17:04	07/25/17 15:16	1
Silver	ND		0.74	0.25	mg/Kg	☼	07/24/17 17:04	07/25/17 15:16	1
Sodium	**165**	**J B**	172	16.0	mg/Kg	☼	07/24/17 17:04	07/25/17 15:16	1
Thallium	ND		7.4	0.37	mg/Kg	☼	07/24/17 17:04	07/25/17 15:16	1
Vanadium	**24.7**		0.61	0.14	mg/Kg	☼	07/24/17 17:04	07/25/17 15:16	1
Zinc	**104**		2.5	0.79	mg/Kg	☼	07/24/17 17:04	07/25/17 15:16	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.091**		0.026	0.011	mg/Kg	☼	07/24/17 12:35	07/24/17 14:54	1

Client Sample ID: TP-04

Date Collected: 07/19/17 13:00
Date Received: 07/19/17 17:00

Lab Sample ID: 480-121321-4

Matrix: Solid
Percent Solids: 82.1

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	F1 vs	6.1	0.44	ug/Kg	☼	07/25/17 08:33	07/25/17 14:43	1
1,1,2,2-Tetrachloroethane	ND	F1 vs	6.1	0.99	ug/Kg	☼	07/25/17 08:33	07/25/17 14:43	1
1,1,2-Trichloroethane	ND	F1 vs	6.1	0.79	ug/Kg	☼	07/25/17 08:33	07/25/17 14:43	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	F1 vs	6.1	1.4	ug/Kg	☼	07/25/17 08:33	07/25/17 14:43	1
1,1-Dichloroethane	ND	vs	6.1	0.74	ug/Kg	☼	07/25/17 08:33	07/25/17 14:43	1
1,1-Dichloroethene	ND	F1 vs	6.1	0.75	ug/Kg	☼	07/25/17 08:33	07/25/17 14:43	1
1,2,4-Trichlorobenzene	ND	F1 vs	6.1	0.37	ug/Kg	☼	07/25/17 08:33	07/25/17 14:43	1
1,2-Dibromo-3-Chloropropane	ND	F1 vs	6.1	3.0	ug/Kg	☼	07/25/17 08:33	07/25/17 14:43	1
1,2-Dibromoethane	ND	F1 vs	6.1	0.78	ug/Kg	☼	07/25/17 08:33	07/25/17 14:43	1
1,2-Dichlorobenzene	ND	F1 vs	6.1	0.48	ug/Kg	☼	07/25/17 08:33	07/25/17 14:43	1
1,2-Dichloroethane	ND	F1 vs	6.1	0.31	ug/Kg	☼	07/25/17 08:33	07/25/17 14:43	1

Client Sample ID: TP-04
Date Collected: 07/19/17 13:00
Date Received: 07/19/17 17:00

Lab Sample ID: 480-121321-4
Matrix: Solid
Percent Solids: 82.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	ND	vs	6.1	3.0	ug/Kg	☼	07/25/17 08:33	07/25/17 14:43	1
1,3-Dichlorobenzene	ND	vs	6.1	0.31	ug/Kg	☼	07/25/17 08:33	07/25/17 14:43	1
1,4-Dichlorobenzene	ND	vs	6.1	0.85	ug/Kg	☼	07/25/17 08:33	07/25/17 14:43	1
2-Hexanone	ND	vs	30	3.0	ug/Kg	☼	07/25/17 08:33	07/25/17 14:43	1
2-Butanone (MEK)	ND	F1 vs	30	2.2	ug/Kg	☼	07/25/17 08:33	07/25/17 14:43	1
4-Methyl-2-pentanone (MIBK)	ND	F1 vs	30	2.0	ug/Kg	☼	07/25/17 08:33	07/25/17 14:43	1
Acetone	ND	F1 vs	30	5.1	ug/Kg	☼	07/25/17 08:33	07/25/17 14:43	1
Benzene	ND	F1 vs	6.1	0.30	ug/Kg	☼	07/25/17 08:33	07/25/17 14:43	1
Bromodichloromethane	ND	vs	6.1	0.82	ug/Kg	☼	07/25/17 08:33	07/25/17 14:43	1
Bromoform	ND	F1 vs	6.1	3.0	ug/Kg	☼	07/25/17 08:33	07/25/17 14:43	1
Bromomethane	ND	vs	6.1	0.55	ug/Kg	☼	07/25/17 08:33	07/25/17 14:43	1
Carbon disulfide	ND	F1 vs	6.1	3.0	ug/Kg	☼	07/25/17 08:33	07/25/17 14:43	1
Carbon tetrachloride	ND	F1 vs	6.1	0.59	ug/Kg	☼	07/25/17 08:33	07/25/17 14:43	1
Chlorobenzene	ND	F1 vs	6.1	0.80	ug/Kg	☼	07/25/17 08:33	07/25/17 14:43	1
Dibromochloromethane	ND	F1 vs	6.1	0.78	ug/Kg	☼	07/25/17 08:33	07/25/17 14:43	1
Chloroethane	ND	* vs	6.1	1.4	ug/Kg	☼	07/25/17 08:33	07/25/17 14:43	1
Chloroform	ND	F1 vs	6.1	0.38	ug/Kg	☼	07/25/17 08:33	07/25/17 14:43	1
Chloromethane	ND	vs	6.1	0.37	ug/Kg	☼	07/25/17 08:33	07/25/17 14:43	1
cis-1,2-Dichloroethene	ND	F1 vs	6.1	0.78	ug/Kg	☼	07/25/17 08:33	07/25/17 14:43	1
cis-1,3-Dichloropropene	ND	F1 vs	6.1	0.88	ug/Kg	☼	07/25/17 08:33	07/25/17 14:43	1
Cyclohexane	ND	F1 vs	6.1	0.85	ug/Kg	☼	07/25/17 08:33	07/25/17 14:43	1
Dichlorodifluoromethane	ND	F1 vs	6.1	0.50	ug/Kg	☼	07/25/17 08:33	07/25/17 14:43	1
Ethylbenzene	ND	F1 vs	6.1	0.42	ug/Kg	☼	07/25/17 08:33	07/25/17 14:43	1
Isopropylbenzene	ND	F1 vs	6.1	0.92	ug/Kg	☼	07/25/17 08:33	07/25/17 14:43	1
Methyl acetate	ND	F1 vs	30	3.7	ug/Kg	☼	07/25/17 08:33	07/25/17 14:43	1
Methyl tert-butyl ether	ND	vs	6.1	0.60	ug/Kg	☼	07/25/17 08:33	07/25/17 14:43	1
Methylcyclohexane	ND	F1 vs	6.1	0.93	ug/Kg	☼	07/25/17 08:33	07/25/17 14:43	1
Methylene Chloride	ND	vs	6.1	2.8	ug/Kg	☼	07/25/17 08:33	07/25/17 14:43	1
Styrene	ND	F1 vs	6.1	0.30	ug/Kg	☼	07/25/17 08:33	07/25/17 14:43	1
Tetrachloroethene	ND	F1 vs	6.1	0.82	ug/Kg	☼	07/25/17 08:33	07/25/17 14:43	1
Toluene	ND	F1 vs	6.1	0.46	ug/Kg	☼	07/25/17 08:33	07/25/17 14:43	1
trans-1,2-Dichloroethene	ND	F1 vs	6.1	0.63	ug/Kg	☼	07/25/17 08:33	07/25/17 14:43	1
trans-1,3-Dichloropropene	ND	vs	6.1	2.7	ug/Kg	☼	07/25/17 08:33	07/25/17 14:43	1
Trichloroethene	ND	F1 vs	6.1	1.3	ug/Kg	☼	07/25/17 08:33	07/25/17 14:43	1
Trichlorofluoromethane	ND	F1 vs	6.1	0.58	ug/Kg	☼	07/25/17 08:33	07/25/17 14:43	1
Vinyl chloride	ND	F1 vs	6.1	0.74	ug/Kg	☼	07/25/17 08:33	07/25/17 14:43	1
Xylenes, Total	ND	F1 vs	12	1.0	ug/Kg	☼	07/25/17 08:33	07/25/17 14:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*64 - 126*	*07/25/17 08:33*	*07/25/17 14:43*	*1*
Toluene-d8 (Surr)	*99*		*71 - 125*	*07/25/17 08:33*	*07/25/17 14:43*	*1*
4-Bromofluorobenzene (Surr)	*93*		*72 - 126*	*07/25/17 08:33*	*07/25/17 14:43*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		200	30	ug/Kg	☼	07/20/17 07:46	07/25/17 17:08	1
bis (2-chloroisopropyl) ether	ND		200	40	ug/Kg	☼	07/20/17 07:46	07/25/17 17:08	1
2,4,5-Trichlorophenol	ND		200	55	ug/Kg	☼	07/20/17 07:46	07/25/17 17:08	1
2,4,6-Trichlorophenol	ND		200	40	ug/Kg	☼	07/20/17 07:46	07/25/17 17:08	1
2,4-Dichlorophenol	ND		200	21	ug/Kg	☼	07/20/17 07:46	07/25/17 17:08	1

Client Sample ID: TP-04

Date Collected: 07/19/17 13:00
Date Received: 07/19/17 17:00

Lab Sample ID: 480-121321-4

Matrix: Solid
Percent Solids: 82.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dimethylphenol	ND		200	49	ug/Kg	☼	07/20/17 07:46	07/25/17 17:08	1
2,4-Dinitrophenol	ND		2000	930	ug/Kg	☼	07/20/17 07:46	07/25/17 17:08	1
2,4-Dinitrotoluene	ND		200	41	ug/Kg	☼	07/20/17 07:46	07/25/17 17:08	1
2,6-Dinitrotoluene	ND		200	24	ug/Kg	☼	07/20/17 07:46	07/25/17 17:08	1
2-Chloronaphthalene	ND		200	33	ug/Kg	☼	07/20/17 07:46	07/25/17 17:08	1
2-Chlorophenol	ND		200	37	ug/Kg	☼	07/20/17 07:46	07/25/17 17:08	1
2-Methylnaphthalene	ND		200	40	ug/Kg	☼	07/20/17 07:46	07/25/17 17:08	1
2-Methylphenol	ND		200	24	ug/Kg	☼	07/20/17 07:46	07/25/17 17:08	1
2-Nitroaniline	ND		390	30	ug/Kg	☼	07/20/17 07:46	07/25/17 17:08	1
2-Nitrophenol	ND		200	57	ug/Kg	☼	07/20/17 07:46	07/25/17 17:08	1
3,3'-Dichlorobenzidine	ND		390	240	ug/Kg	☼	07/20/17 07:46	07/25/17 17:08	1
3-Nitroaniline	ND		390	56	ug/Kg	☼	07/20/17 07:46	07/25/17 17:08	1
4,6-Dinitro-2-methylphenol	ND		390	200	ug/Kg	☼	07/20/17 07:46	07/25/17 17:08	1
4-Bromophenyl phenyl ether	ND		200	28	ug/Kg	☼	07/20/17 07:46	07/25/17 17:08	1
4-Chloro-3-methylphenol	ND		200	50	ug/Kg	☼	07/20/17 07:46	07/25/17 17:08	1
4-Chloroaniline	ND		200	50	ug/Kg	☼	07/20/17 07:46	07/25/17 17:08	1
4-Chlorophenyl phenyl ether	ND		200	25	ug/Kg	☼	07/20/17 07:46	07/25/17 17:08	1
4-Methylphenol	ND		390	24	ug/Kg	☼	07/20/17 07:46	07/25/17 17:08	1
4-Nitroaniline	ND		390	110	ug/Kg	☼	07/20/17 07:46	07/25/17 17:08	1
4-Nitrophenol	ND		390	140	ug/Kg	☼	07/20/17 07:46	07/25/17 17:08	1
Acenaphthene	ND		200	30	ug/Kg	☼	07/20/17 07:46	07/25/17 17:08	1
Acenaphthylene	ND		200	26	ug/Kg	☼	07/20/17 07:46	07/25/17 17:08	1
Acetophenone	ND		200	27	ug/Kg	☼	07/20/17 07:46	07/25/17 17:08	1
Anthracene	ND		200	50	ug/Kg	☼	07/20/17 07:46	07/25/17 17:08	1
Atrazine	ND		200	70	ug/Kg	☼	07/20/17 07:46	07/25/17 17:08	1
Benzaldehyde	ND		200	160	ug/Kg	☼	07/20/17 07:46	07/25/17 17:08	1
Benzo(a)anthracene	ND		200	20	ug/Kg	☼	07/20/17 07:46	07/25/17 17:08	1
Benzo(a)pyrene	ND		200	30	ug/Kg	☼	07/20/17 07:46	07/25/17 17:08	1
Benzo(b)fluoranthene	ND		200	32	ug/Kg	☼	07/20/17 07:46	07/25/17 17:08	1
Benzo(g,h,i)perylene	ND		200	21	ug/Kg	☼	07/20/17 07:46	07/25/17 17:08	1
Benzo(k)fluoranthene	ND		200	26	ug/Kg	☼	07/20/17 07:46	07/25/17 17:08	1
Bis(2-chloroethoxy)methane	ND		200	43	ug/Kg	☼	07/20/17 07:46	07/25/17 17:08	1
Bis(2-chloroethyl)ether	ND		200	26	ug/Kg	☼	07/20/17 07:46	07/25/17 17:08	1
Bis(2-ethylhexyl) phthalate	ND		200	69	ug/Kg	☼	07/20/17 07:46	07/25/17 17:08	1
Butyl benzyl phthalate	ND		200	33	ug/Kg	☼	07/20/17 07:46	07/25/17 17:08	1
Caprolactam	ND		200	60	ug/Kg	☼	07/20/17 07:46	07/25/17 17:08	1
Carbazole	ND		200	24	ug/Kg	☼	07/20/17 07:46	07/25/17 17:08	1
Chrysene	ND		200	45	ug/Kg	☼	07/20/17 07:46	07/25/17 17:08	1
Di-n-butyl phthalate	ND		200	34	ug/Kg	☼	07/20/17 07:46	07/25/17 17:08	1
Di-n-octyl phthalate	ND		200	24	ug/Kg	☼	07/20/17 07:46	07/25/17 17:08	1
Dibenz(a,h)anthracene	ND		200	36	ug/Kg	☼	07/20/17 07:46	07/25/17 17:08	1
Dibenzofuran	ND		200	24	ug/Kg	☼	07/20/17 07:46	07/25/17 17:08	1
Diethyl phthalate	ND		200	26	ug/Kg	☼	07/20/17 07:46	07/25/17 17:08	1
Dimethyl phthalate	ND		200	24	ug/Kg	☼	07/20/17 07:46	07/25/17 17:08	1
Fluoranthene	ND		200	21	ug/Kg	☼	07/20/17 07:46	07/25/17 17:08	1
Fluorene	ND		200	24	ug/Kg	☼	07/20/17 07:46	07/25/17 17:08	1
Hexachlorobenzene	ND		200	27	ug/Kg	☼	07/20/17 07:46	07/25/17 17:08	1
Hexachlorobutadiene	ND		200	30	ug/Kg	☼	07/20/17 07:46	07/25/17 17:08	1
Hexachlorocyclopentadiene	ND		200	27	ug/Kg	☼	07/20/17 07:46	07/25/17 17:08	1

Client Sample ID: TP-04

Date Collected: 07/19/17 13:00
Date Received: 07/19/17 17:00

Lab Sample ID: 480-121321-4

Matrix: Solid
Percent Solids: 82.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachloroethane	ND		200	26	ug/Kg	☼	07/20/17 07:46	07/25/17 17:08	1
Indeno(1,2,3-cd)pyrene	ND		200	25	ug/Kg	☼	07/20/17 07:46	07/25/17 17:08	1
Isophorone	ND		200	43	ug/Kg	☼	07/20/17 07:46	07/25/17 17:08	1
N-Nitrosodi-n-propylamine	ND		200	34	ug/Kg	☼	07/20/17 07:46	07/25/17 17:08	1
N-Nitrosodiphenylamine	ND		200	160	ug/Kg	☼	07/20/17 07:46	07/25/17 17:08	1
Naphthalene	ND		200	26	ug/Kg	☼	07/20/17 07:46	07/25/17 17:08	1
Nitrobenzene	ND		200	23	ug/Kg	☼	07/20/17 07:46	07/25/17 17:08	1
Pentachlorophenol	ND		390	200	ug/Kg	☼	07/20/17 07:46	07/25/17 17:08	1
Phenanthrene	ND		200	30	ug/Kg	☼	07/20/17 07:46	07/25/17 17:08	1
Phenol	ND		200	31	ug/Kg	☼	07/20/17 07:46	07/25/17 17:08	1
Pyrene	ND		200	24	ug/Kg	☼	07/20/17 07:46	07/25/17 17:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*89*		*54 - 120*	*07/20/17 07:46*	*07/25/17 17:08*	*1*
2-Fluorobiphenyl	*81*		*60 - 120*	*07/20/17 07:46*	*07/25/17 17:08*	*1*
2-Fluorophenol	*71*		*52 - 120*	*07/20/17 07:46*	*07/25/17 17:08*	*1*
Nitrobenzene-d5	*83*		*53 - 120*	*07/20/17 07:46*	*07/25/17 17:08*	*1*
p-Terphenyl-d14	*98*		*65 - 121*	*07/20/17 07:46*	*07/25/17 17:08*	*1*
Phenol-d5	*66*		*54 - 120*	*07/20/17 07:46*	*07/25/17 17:08*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.0	0.39	ug/Kg	☼	07/21/17 06:42	07/22/17 13:25	1
4,4'-DDE	**0.65**	**J**	2.0	0.42	ug/Kg	☼	07/21/17 06:42	07/22/17 13:25	1
4,4'-DDT	ND		2.0	0.47	ug/Kg	☼	07/21/17 06:42	07/22/17 13:25	1
Aldrin	ND		2.0	0.49	ug/Kg	☼	07/21/17 06:42	07/22/17 13:25	1
alpha-BHC	ND		2.0	0.36	ug/Kg	☼	07/21/17 06:42	07/22/17 13:25	1
alpha-Chlordane	ND		2.0	1.0	ug/Kg	☼	07/21/17 06:42	07/22/17 13:25	1
beta-BHC	ND		2.0	0.36	ug/Kg	☼	07/21/17 06:42	07/22/17 13:25	1
delta-BHC	**0.51**	**J**	2.0	0.37	ug/Kg	☼	07/21/17 06:42	07/22/17 13:25	1
Dieldrin	ND		2.0	0.48	ug/Kg	☼	07/21/17 06:42	07/22/17 13:25	1
Endosulfan I	ND		2.0	0.38	ug/Kg	☼	07/21/17 06:42	07/22/17 13:25	1
Endosulfan II	ND		2.0	0.36	ug/Kg	☼	07/21/17 06:42	07/22/17 13:25	1
Endosulfan sulfate	ND		2.0	0.37	ug/Kg	☼	07/21/17 06:42	07/22/17 13:25	1
Endrin	ND		2.0	0.40	ug/Kg	☼	07/21/17 06:42	07/22/17 13:25	1
Endrin aldehyde	ND		2.0	0.51	ug/Kg	☼	07/21/17 06:42	07/22/17 13:25	1
Endrin ketone	ND		2.0	0.49	ug/Kg	☼	07/21/17 06:42	07/22/17 13:25	1
gamma-BHC (Lindane)	ND		2.0	0.37	ug/Kg	☼	07/21/17 06:42	07/22/17 13:25	1
gamma-Chlordane	ND		2.0	0.64	ug/Kg	☼	07/21/17 06:42	07/22/17 13:25	1
Heptachlor	ND		2.0	0.43	ug/Kg	☼	07/21/17 06:42	07/22/17 13:25	1
Heptachlor epoxide	ND		2.0	0.52	ug/Kg	☼	07/21/17 06:42	07/22/17 13:25	1
Methoxychlor	ND	F1	2.0	0.41	ug/Kg	☼	07/21/17 06:42	07/22/17 13:25	1
Toxaphene	ND		20	12	ug/Kg	☼	07/21/17 06:42	07/22/17 13:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*95*		*45 - 120*	*07/21/17 06:42*	*07/22/17 13:25*	*1*
DCB Decachlorobiphenyl	*105*		*45 - 120*	*07/21/17 06:42*	*07/22/17 13:25*	*1*
Tetrachloro-m-xylene	*73*		*30 - 124*	*07/21/17 06:42*	*07/22/17 13:25*	*1*
Tetrachloro-m-xylene	*73*		*30 - 124*	*07/21/17 06:42*	*07/22/17 13:25*	*1*

Client Sample ID: TP-04

Date Collected: 07/19/17 13:00
Date Received: 07/19/17 17:00

Lab Sample ID: 480-121321-4

Matrix: Solid
Percent Solids: 82.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.26	0.050	mg/Kg	☼	07/20/17 10:58	07/20/17 18:43	1
PCB-1221	ND		0.26	0.050	mg/Kg	☼	07/20/17 10:58	07/20/17 18:43	1
PCB-1232	ND		0.26	0.050	mg/Kg	☼	07/20/17 10:58	07/20/17 18:43	1
PCB-1242	ND		0.26	0.050	mg/Kg	☼	07/20/17 10:58	07/20/17 18:43	1
PCB-1248	ND		0.26	0.050	mg/Kg	☼	07/20/17 10:58	07/20/17 18:43	1
PCB-1254	ND		0.26	0.12	mg/Kg	☼	07/20/17 10:58	07/20/17 18:43	1
PCB-1260	ND		0.26	0.12	mg/Kg	☼	07/20/17 10:58	07/20/17 18:43	1
PCB-1262	ND		0.26	0.12	mg/Kg	☼	07/20/17 10:58	07/20/17 18:43	1
PCB-1268	ND		0.26	0.12	mg/Kg	☼	07/20/17 10:58	07/20/17 18:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*144*		*60 - 154*	*07/20/17 10:58*	*07/20/17 18:43*	*1*
Tetrachloro-m-xylene	*149*		*60 - 154*	*07/20/17 10:58*	*07/20/17 18:43*	*1*
DCB Decachlorobiphenyl	*140*		*65 - 174*	*07/20/17 10:58*	*07/20/17 18:43*	*1*
DCB Decachlorobiphenyl	*134*		*65 - 174*	*07/20/17 10:58*	*07/20/17 18:43*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**9820**		11.9	5.2	mg/Kg	☼	07/24/17 17:04	07/25/17 15:19	1
Antimony	ND		17.8	0.48	mg/Kg	☼	07/24/17 17:04	07/25/17 15:19	1
Arsenic	**2.4**		2.4	0.48	mg/Kg	☼	07/24/17 17:04	07/25/17 15:19	1
Barium	**43.7**		0.59	0.13	mg/Kg	☼	07/24/17 17:04	07/25/17 15:19	1
Beryllium	**0.25**		0.24	0.033	mg/Kg	☼	07/24/17 17:04	07/25/17 15:19	1
Cadmium	**0.16**	**J**	0.24	0.036	mg/Kg	☼	07/24/17 17:04	07/25/17 15:19	1
Calcium	**13600**	**F2 B**	59.5	3.9	mg/Kg	☼	07/24/17 17:04	07/25/17 15:19	1
Chromium	**11.1**		0.59	0.24	mg/Kg	☼	07/24/17 17:04	07/25/17 15:19	1
Cobalt	**2.6**		0.59	0.059	mg/Kg	☼	07/24/17 17:04	07/25/17 15:19	1
Copper	**16.1**		1.2	0.25	mg/Kg	☼	07/24/17 17:04	07/25/17 15:19	1
Iron	**7460**	**F1**	11.9	4.2	mg/Kg	☼	07/24/17 17:04	07/25/17 15:19	1
Lead	**12.6**		1.2	0.29	mg/Kg	☼	07/24/17 17:04	07/25/17 15:19	1
Magnesium	**5500**	**F1 F2**	23.8	1.1	mg/Kg	☼	07/24/17 17:04	07/25/17 15:19	1
Manganese	**106**	**F1 F2 B ^**	0.24	0.038	mg/Kg	☼	07/24/17 17:04	07/25/17 15:19	1
Nickel	**9.7**		5.9	0.27	mg/Kg	☼	07/24/17 17:04	07/25/17 15:19	1
Potassium	**1220**	**F1**	35.7	23.8	mg/Kg	☼	07/24/17 17:04	07/25/17 15:19	1
Selenium	ND		4.8	0.48	mg/Kg	☼	07/24/17 17:04	07/25/17 15:19	1
Silver	ND		0.71	0.24	mg/Kg	☼	07/24/17 17:04	07/25/17 15:19	1
Sodium	**352**	**B**	167	15.5	mg/Kg	☼	07/24/17 17:04	07/25/17 15:19	1
Thallium	ND		7.1	0.36	mg/Kg	☼	07/24/17 17:04	07/25/17 15:19	1
Vanadium	**18.3**		0.59	0.13	mg/Kg	☼	07/24/17 17:04	07/25/17 15:19	1
Zinc	**50.5**	**F1**	2.4	0.76	mg/Kg	☼	07/24/17 17:04	07/25/17 15:19	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.023**	**J**	0.024	0.0099	mg/Kg	☼	07/24/17 12:35	07/24/17 14:56	1

Client Sample ID: TP-05

Date Collected: 07/19/17 14:00
Date Received: 07/19/17 17:00

Lab Sample ID: 480-121321-5

Matrix: Solid
Percent Solids: 79.0

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	vs	6.3	0.46	ug/Kg	☼	07/25/17 08:33	07/25/17 15:09	1
1,1,2,2-Tetrachloroethane	ND	vs	6.3	1.0	ug/Kg	☼	07/25/17 08:33	07/25/17 15:09	1
1,1,2-Trichloroethane	ND	vs	6.3	0.82	ug/Kg	☼	07/25/17 08:33	07/25/17 15:09	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	vs	6.3	1.4	ug/Kg	☼	07/25/17 08:33	07/25/17 15:09	1
1,1-Dichloroethane	ND	vs	6.3	0.77	ug/Kg	☼	07/25/17 08:33	07/25/17 15:09	1
1,1-Dichloroethene	ND	vs	6.3	0.77	ug/Kg	☼	07/25/17 08:33	07/25/17 15:09	1
1,2,4-Trichlorobenzene	ND	vs	6.3	0.38	ug/Kg	☼	07/25/17 08:33	07/25/17 15:09	1
1,2-Dibromo-3-Chloropropane	ND	vs	6.3	3.2	ug/Kg	☼	07/25/17 08:33	07/25/17 15:09	1
1,2-Dibromoethane	ND	vs	6.3	0.81	ug/Kg	☼	07/25/17 08:33	07/25/17 15:09	1
1,2-Dichlorobenzene	ND	vs	6.3	0.49	ug/Kg	☼	07/25/17 08:33	07/25/17 15:09	1
1,2-Dichloroethane	ND	vs	6.3	0.32	ug/Kg	☼	07/25/17 08:33	07/25/17 15:09	1
1,2-Dichloropropane	ND	vs	6.3	3.2	ug/Kg	☼	07/25/17 08:33	07/25/17 15:09	1
1,3-Dichlorobenzene	ND	vs	6.3	0.32	ug/Kg	☼	07/25/17 08:33	07/25/17 15:09	1
1,4-Dichlorobenzene	ND	vs	6.3	0.88	ug/Kg	☼	07/25/17 08:33	07/25/17 15:09	1
2-Hexanone	ND	vs	32	3.2	ug/Kg	☼	07/25/17 08:33	07/25/17 15:09	1
2-Butanone (MEK)	ND	vs	32	2.3	ug/Kg	☼	07/25/17 08:33	07/25/17 15:09	1
4-Methyl-2-pentanone (MIBK)	ND	vs	32	2.1	ug/Kg	☼	07/25/17 08:33	07/25/17 15:09	1
Acetone	ND	vs	32	5.3	ug/Kg	☼	07/25/17 08:33	07/25/17 15:09	1
Benzene	ND	vs	6.3	0.31	ug/Kg	☼	07/25/17 08:33	07/25/17 15:09	1
Bromodichloromethane	ND	vs	6.3	0.84	ug/Kg	☼	07/25/17 08:33	07/25/17 15:09	1
Bromoform	ND	vs	6.3	3.2	ug/Kg	☼	07/25/17 08:33	07/25/17 15:09	1
Bromomethane	ND	vs	6.3	0.57	ug/Kg	☼	07/25/17 08:33	07/25/17 15:09	1
Carbon disulfide	ND	vs	6.3	3.2	ug/Kg	☼	07/25/17 08:33	07/25/17 15:09	1
Carbon tetrachloride	ND	vs	6.3	0.61	ug/Kg	☼	07/25/17 08:33	07/25/17 15:09	1
Chlorobenzene	ND	vs	6.3	0.83	ug/Kg	☼	07/25/17 08:33	07/25/17 15:09	1
Dibromochloromethane	ND	vs	6.3	0.81	ug/Kg	☼	07/25/17 08:33	07/25/17 15:09	1
Chloroethane	ND	* vs	6.3	1.4	ug/Kg	☼	07/25/17 08:33	07/25/17 15:09	1
Chloroform	ND	vs	6.3	0.39	ug/Kg	☼	07/25/17 08:33	07/25/17 15:09	1
Chloromethane	ND	vs	6.3	0.38	ug/Kg	☼	07/25/17 08:33	07/25/17 15:09	1
cis-1,2-Dichloroethene	ND	vs	6.3	0.81	ug/Kg	☼	07/25/17 08:33	07/25/17 15:09	1
cis-1,3-Dichloropropene	ND	vs	6.3	0.91	ug/Kg	☼	07/25/17 08:33	07/25/17 15:09	1
Cyclohexane	ND	vs	6.3	0.88	ug/Kg	☼	07/25/17 08:33	07/25/17 15:09	1
Dichlorodifluoromethane	ND	vs	6.3	0.52	ug/Kg	☼	07/25/17 08:33	07/25/17 15:09	1
Ethylbenzene	ND	vs	6.3	0.43	ug/Kg	☼	07/25/17 08:33	07/25/17 15:09	1
Isopropylbenzene	ND	vs	6.3	0.95	ug/Kg	☼	07/25/17 08:33	07/25/17 15:09	1
Methyl acetate	ND	vs	32	3.8	ug/Kg	☼	07/25/17 08:33	07/25/17 15:09	1
Methyl tert-butyl ether	ND	vs	6.3	0.62	ug/Kg	☼	07/25/17 08:33	07/25/17 15:09	1
Methylcyclohexane	ND	vs	6.3	0.96	ug/Kg	☼	07/25/17 08:33	07/25/17 15:09	1
Methylene Chloride	ND	vs	6.3	2.9	ug/Kg	☼	07/25/17 08:33	07/25/17 15:09	1
Styrene	ND	vs	6.3	0.32	ug/Kg	☼	07/25/17 08:33	07/25/17 15:09	1
Tetrachloroethene	ND	vs	6.3	0.85	ug/Kg	☼	07/25/17 08:33	07/25/17 15:09	1
Toluene	ND	vs	6.3	0.48	ug/Kg	☼	07/25/17 08:33	07/25/17 15:09	1
trans-1,2-Dichloroethene	ND	vs	6.3	0.65	ug/Kg	☼	07/25/17 08:33	07/25/17 15:09	1
trans-1,3-Dichloropropene	ND	vs	6.3	2.8	ug/Kg	☼	07/25/17 08:33	07/25/17 15:09	1
Trichloroethene	ND	vs	6.3	1.4	ug/Kg	☼	07/25/17 08:33	07/25/17 15:09	1
Trichlorofluoromethane	ND	vs	6.3	0.60	ug/Kg	☼	07/25/17 08:33	07/25/17 15:09	1
Vinyl chloride	ND	vs	6.3	0.77	ug/Kg	☼	07/25/17 08:33	07/25/17 15:09	1
Xylenes, Total	ND	vs	13	1.1	ug/Kg	☼	07/25/17 08:33	07/25/17 15:09	1

Client Sample ID: TP-05

Date Collected: 07/19/17 14:00
Date Received: 07/19/17 17:00

Lab Sample ID: 480-121321-5

Matrix: Solid
Percent Solids: 79.0

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*102*		*64 - 126*	*07/25/17 08:33*	*07/25/17 15:09*	*1*
Toluene-d8 (Surr)	*96*		*71 - 125*	*07/25/17 08:33*	*07/25/17 15:09*	*1*
4-Bromofluorobenzene (Surr)	*93*		*72 - 126*	*07/25/17 08:33*	*07/25/17 15:09*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		210	31	ug/Kg	☼	07/20/17 07:46	07/25/17 19:46	1
bis (2-chloroisopropyl) ether	ND		210	42	ug/Kg	☼	07/20/17 07:46	07/25/17 19:46	1
2,4,5-Trichlorophenol	ND		210	57	ug/Kg	☼	07/20/17 07:46	07/25/17 19:46	1
2,4,6-Trichlorophenol	ND		210	42	ug/Kg	☼	07/20/17 07:46	07/25/17 19:46	1
2,4-Dichlorophenol	ND		210	22	ug/Kg	☼	07/20/17 07:46	07/25/17 19:46	1
2,4-Dimethylphenol	ND		210	51	ug/Kg	☼	07/20/17 07:46	07/25/17 19:46	1
2,4-Dinitrophenol	ND		2100	980	ug/Kg	☼	07/20/17 07:46	07/25/17 19:46	1
2,4-Dinitrotoluene	ND		210	44	ug/Kg	☼	07/20/17 07:46	07/25/17 19:46	1
2,6-Dinitrotoluene	ND		210	25	ug/Kg	☼	07/20/17 07:46	07/25/17 19:46	1
2-Chloronaphthalene	ND		210	35	ug/Kg	☼	07/20/17 07:46	07/25/17 19:46	1
2-Chlorophenol	ND		210	39	ug/Kg	☼	07/20/17 07:46	07/25/17 19:46	1
2-Methylnaphthalene	ND		210	42	ug/Kg	☼	07/20/17 07:46	07/25/17 19:46	1
2-Methylphenol	ND		210	25	ug/Kg	☼	07/20/17 07:46	07/25/17 19:46	1
2-Nitroaniline	ND		410	31	ug/Kg	☼	07/20/17 07:46	07/25/17 19:46	1
2-Nitrophenol	ND		210	60	ug/Kg	☼	07/20/17 07:46	07/25/17 19:46	1
3,3'-Dichlorobenzidine	ND		410	250	ug/Kg	☼	07/20/17 07:46	07/25/17 19:46	1
3-Nitroaniline	ND		410	58	ug/Kg	☼	07/20/17 07:46	07/25/17 19:46	1
4,6-Dinitro-2-methylphenol	ND		410	210	ug/Kg	☼	07/20/17 07:46	07/25/17 19:46	1
4-Bromophenyl phenyl ether	ND		210	30	ug/Kg	☼	07/20/17 07:46	07/25/17 19:46	1
4-Chloro-3-methylphenol	ND		210	52	ug/Kg	☼	07/20/17 07:46	07/25/17 19:46	1
4-Chloroaniline	ND		210	52	ug/Kg	☼	07/20/17 07:46	07/25/17 19:46	1
4-Chlorophenyl phenyl ether	ND		210	26	ug/Kg	☼	07/20/17 07:46	07/25/17 19:46	1
4-Methylphenol	ND		410	25	ug/Kg	☼	07/20/17 07:46	07/25/17 19:46	1
4-Nitroaniline	ND		410	110	ug/Kg	☼	07/20/17 07:46	07/25/17 19:46	1
4-Nitrophenol	ND		410	150	ug/Kg	☼	07/20/17 07:46	07/25/17 19:46	1
Acenaphthene	ND		210	31	ug/Kg	☼	07/20/17 07:46	07/25/17 19:46	1
Acenaphthylene	ND		210	27	ug/Kg	☼	07/20/17 07:46	07/25/17 19:46	1
Acetophenone	ND		210	29	ug/Kg	☼	07/20/17 07:46	07/25/17 19:46	1
Anthracene	ND		210	52	ug/Kg	☼	07/20/17 07:46	07/25/17 19:46	1
Atrazine	ND		210	73	ug/Kg	☼	07/20/17 07:46	07/25/17 19:46	1
Benzaldehyde	ND		210	170	ug/Kg	☼	07/20/17 07:46	07/25/17 19:46	1
Benzo(a)anthracene	ND		210	21	ug/Kg	☼	07/20/17 07:46	07/25/17 19:46	1
Benzo(a)pyrene	ND		210	31	ug/Kg	☼	07/20/17 07:46	07/25/17 19:46	1
Benzo(b)fluoranthene	ND		210	34	ug/Kg	☼	07/20/17 07:46	07/25/17 19:46	1
Benzo(g,h,i)perylene	ND		210	22	ug/Kg	☼	07/20/17 07:46	07/25/17 19:46	1
Benzo(k)fluoranthene	ND		210	27	ug/Kg	☼	07/20/17 07:46	07/25/17 19:46	1
Bis(2-chloroethoxy)methane	ND		210	45	ug/Kg	☼	07/20/17 07:46	07/25/17 19:46	1
Bis(2-chloroethyl)ether	ND		210	27	ug/Kg	☼	07/20/17 07:46	07/25/17 19:46	1
Bis(2-ethylhexyl) phthalate	ND		210	72	ug/Kg	☼	07/20/17 07:46	07/25/17 19:46	1
Butyl benzyl phthalate	ND		210	35	ug/Kg	☼	07/20/17 07:46	07/25/17 19:46	1
Caprolactam	ND		210	63	ug/Kg	☼	07/20/17 07:46	07/25/17 19:46	1
Carbazole	ND		210	25	ug/Kg	☼	07/20/17 07:46	07/25/17 19:46	1
Chrysene	ND		210	47	ug/Kg	☼	07/20/17 07:46	07/25/17 19:46	1
Di-n-butyl phthalate	ND		210	36	ug/Kg	☼	07/20/17 07:46	07/25/17 19:46	1

Client Sample ID: TP-05
Date Collected: 07/19/17 14:00
Date Received: 07/19/17 17:00

Lab Sample ID: 480-121321-5
Matrix: Solid
Percent Solids: 79.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate	ND		210	25	ug/Kg	☼	07/20/17 07:46	07/25/17 19:46	1
Dibenz(a,h)anthracene	ND		210	37	ug/Kg	☼	07/20/17 07:46	07/25/17 19:46	1
Dibenzofuran	ND		210	25	ug/Kg	☼	07/20/17 07:46	07/25/17 19:46	1
Diethyl phthalate	ND		210	27	ug/Kg	☼	07/20/17 07:46	07/25/17 19:46	1
Dimethyl phthalate	ND		210	25	ug/Kg	☼	07/20/17 07:46	07/25/17 19:46	1
Fluoranthene	ND		210	22	ug/Kg	☼	07/20/17 07:46	07/25/17 19:46	1
Fluorene	ND		210	25	ug/Kg	☼	07/20/17 07:46	07/25/17 19:46	1
Hexachlorobenzene	ND		210	29	ug/Kg	☼	07/20/17 07:46	07/25/17 19:46	1
Hexachlorobutadiene	ND		210	31	ug/Kg	☼	07/20/17 07:46	07/25/17 19:46	1
Hexachlorocyclopentadiene	ND		210	29	ug/Kg	☼	07/20/17 07:46	07/25/17 19:46	1
Hexachloroethane	ND		210	27	ug/Kg	☼	07/20/17 07:46	07/25/17 19:46	1
Indeno(1,2,3-cd)pyrene	ND		210	26	ug/Kg	☼	07/20/17 07:46	07/25/17 19:46	1
Isophorone	ND		210	45	ug/Kg	☼	07/20/17 07:46	07/25/17 19:46	1
N-Nitrosodi-n-propylamine	ND		210	36	ug/Kg	☼	07/20/17 07:46	07/25/17 19:46	1
N-Nitrosodiphenylamine	ND		210	170	ug/Kg	☼	07/20/17 07:46	07/25/17 19:46	1
Naphthalene	ND		210	27	ug/Kg	☼	07/20/17 07:46	07/25/17 19:46	1
Nitrobenzene	ND		210	24	ug/Kg	☼	07/20/17 07:46	07/25/17 19:46	1
Pentachlorophenol	ND		410	210	ug/Kg	☼	07/20/17 07:46	07/25/17 19:46	1
Phenanthrene	ND		210	31	ug/Kg	☼	07/20/17 07:46	07/25/17 19:46	1
Phenol	ND		210	32	ug/Kg	☼	07/20/17 07:46	07/25/17 19:46	1
Pyrene	ND		210	25	ug/Kg	☼	07/20/17 07:46	07/25/17 19:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*84*		*54 - 120*	*07/20/17 07:46*	*07/25/17 19:46*	*1*
2-Fluorobiphenyl	*76*		*60 - 120*	*07/20/17 07:46*	*07/25/17 19:46*	*1*
2-Fluorophenol	*65*		*52 - 120*	*07/20/17 07:46*	*07/25/17 19:46*	*1*
Nitrobenzene-d5	*75*		*53 - 120*	*07/20/17 07:46*	*07/25/17 19:46*	*1*
p-Terphenyl-d14	*87*		*65 - 121*	*07/20/17 07:46*	*07/25/17 19:46*	*1*
Phenol-d5	*62*		*54 - 120*	*07/20/17 07:46*	*07/25/17 19:46*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.1	0.40	ug/Kg	☼	07/21/17 06:42	07/22/17 14:44	1
4,4'-DDE	**0.56**	**J**	2.1	0.43	ug/Kg	☼	07/21/17 06:42	07/22/17 14:44	1
4,4'-DDT	**0.90**	**J**	2.1	0.48	ug/Kg	☼	07/21/17 06:42	07/22/17 14:44	1
Aldrin	ND		2.1	0.50	ug/Kg	☼	07/21/17 06:42	07/22/17 14:44	1
alpha-BHC	ND		2.1	0.37	ug/Kg	☼	07/21/17 06:42	07/22/17 14:44	1
alpha-Chlordane	ND		2.1	1.0	ug/Kg	☼	07/21/17 06:42	07/22/17 14:44	1
beta-BHC	ND		2.1	0.37	ug/Kg	☼	07/21/17 06:42	07/22/17 14:44	1
delta-BHC	**0.51**	**J**	2.1	0.38	ug/Kg	☼	07/21/17 06:42	07/22/17 14:44	1
Dieldrin	ND		2.1	0.49	ug/Kg	☼	07/21/17 06:42	07/22/17 14:44	1
Endosulfan I	ND		2.1	0.39	ug/Kg	☼	07/21/17 06:42	07/22/17 14:44	1
Endosulfan II	ND		2.1	0.37	ug/Kg	☼	07/21/17 06:42	07/22/17 14:44	1
Endosulfan sulfate	ND		2.1	0.38	ug/Kg	☼	07/21/17 06:42	07/22/17 14:44	1
Endrin	ND		2.1	0.41	ug/Kg	☼	07/21/17 06:42	07/22/17 14:44	1
Endrin aldehyde	ND		2.1	0.52	ug/Kg	☼	07/21/17 06:42	07/22/17 14:44	1
Endrin ketone	ND		2.1	0.50	ug/Kg	☼	07/21/17 06:42	07/22/17 14:44	1
gamma-BHC (Lindane)	ND		2.1	0.38	ug/Kg	☼	07/21/17 06:42	07/22/17 14:44	1
gamma-Chlordane	ND		2.1	0.65	ug/Kg	☼	07/21/17 06:42	07/22/17 14:44	1
Heptachlor	ND		2.1	0.44	ug/Kg	☼	07/21/17 06:42	07/22/17 14:44	1

Client Sample ID: TP-05
Date Collected: 07/19/17 14:00
Date Received: 07/19/17 17:00

Lab Sample ID: 480-121321-5
Matrix: Solid
Percent Solids: 79.0

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor epoxide	ND		2.1	0.53	ug/Kg	☼	07/21/17 06:42	07/22/17 14:44	1
Methoxychlor	ND		2.1	0.42	ug/Kg	☼	07/21/17 06:42	07/22/17 14:44	1
Toxaphene	ND		21	12	ug/Kg	☼	07/21/17 06:42	07/22/17 14:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*96*		*45 - 120*	*07/21/17 06:42*	*07/22/17 14:44*	*1*
DCB Decachlorobiphenyl	*108*		*45 - 120*	*07/21/17 06:42*	*07/22/17 14:44*	*1*
Tetrachloro-m-xylene	*76*		*30 - 124*	*07/21/17 06:42*	*07/22/17 14:44*	*1*
Tetrachloro-m-xylene	*78*		*30 - 124*	*07/21/17 06:42*	*07/22/17 14:44*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.25	0.049	mg/Kg	☼	07/20/17 10:58	07/20/17 19:44	1
PCB-1221	ND		0.25	0.049	mg/Kg	☼	07/20/17 10:58	07/20/17 19:44	1
PCB-1232	ND		0.25	0.049	mg/Kg	☼	07/20/17 10:58	07/20/17 19:44	1
PCB-1242	ND		0.25	0.049	mg/Kg	☼	07/20/17 10:58	07/20/17 19:44	1
PCB-1248	ND		0.25	0.049	mg/Kg	☼	07/20/17 10:58	07/20/17 19:44	1
PCB-1254	ND		0.25	0.12	mg/Kg	☼	07/20/17 10:58	07/20/17 19:44	1
PCB-1260	ND		0.25	0.12	mg/Kg	☼	07/20/17 10:58	07/20/17 19:44	1
PCB-1262	ND		0.25	0.12	mg/Kg	☼	07/20/17 10:58	07/20/17 19:44	1
PCB-1268	ND		0.25	0.12	mg/Kg	☼	07/20/17 10:58	07/20/17 19:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*141*		*60 - 154*	*07/20/17 10:58*	*07/20/17 19:44*	*1*
Tetrachloro-m-xylene	*126*		*60 - 154*	*07/20/17 10:58*	*07/20/17 19:44*	*1*
DCB Decachlorobiphenyl	*125*		*65 - 174*	*07/20/17 10:58*	*07/20/17 19:44*	*1*
DCB Decachlorobiphenyl	*115*		*65 - 174*	*07/20/17 10:58*	*07/20/17 19:44*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**9420**		12.3	5.4	mg/Kg	☼	07/24/17 17:04	07/25/17 15:46	1
Antimony	ND		18.5	0.49	mg/Kg	☼	07/24/17 17:04	07/25/17 15:46	1
Arsenic	**2.5**		2.5	0.49	mg/Kg	☼	07/24/17 17:04	07/25/17 15:46	1
Barium	**39.0**		0.62	0.14	mg/Kg	☼	07/24/17 17:04	07/25/17 15:46	1
Beryllium	**0.35**		0.25	0.035	mg/Kg	☼	07/24/17 17:04	07/25/17 15:46	1
Cadmium	**0.073**	**J**	0.25	0.037	mg/Kg	☼	07/24/17 17:04	07/25/17 15:46	1
Calcium	**21500**	**B**	61.6	4.1	mg/Kg	☼	07/24/17 17:04	07/25/17 15:46	1
Chromium	**13.0**		0.62	0.25	mg/Kg	☼	07/24/17 17:04	07/25/17 15:46	1
Cobalt	**4.0**		0.62	0.062	mg/Kg	☼	07/24/17 17:04	07/25/17 15:46	1
Copper	**9.1**		1.2	0.26	mg/Kg	☼	07/24/17 17:04	07/25/17 15:46	1
Iron	**11400**		12.3	4.3	mg/Kg	☼	07/24/17 17:04	07/25/17 15:46	1
Lead	**9.1**		1.2	0.30	mg/Kg	☼	07/24/17 17:04	07/25/17 15:46	1
Magnesium	**9500**		24.6	1.1	mg/Kg	☼	07/24/17 17:04	07/25/17 15:46	1
Manganese	**189**	**B ^**	0.25	0.039	mg/Kg	☼	07/24/17 17:04	07/25/17 15:46	1
Nickel	**10.8**		6.2	0.28	mg/Kg	☼	07/24/17 17:04	07/25/17 15:46	1
Potassium	**1350**		37.0	24.6	mg/Kg	☼	07/24/17 17:04	07/25/17 15:46	1
Selenium	ND		4.9	0.49	mg/Kg	☼	07/24/17 17:04	07/25/17 15:46	1
Silver	ND		0.74	0.25	mg/Kg	☼	07/24/17 17:04	07/25/17 15:46	1
Sodium	**268**	**B**	173	16.0	mg/Kg	☼	07/24/17 17:04	07/25/17 15:46	1
Thallium	ND		7.4	0.37	mg/Kg	☼	07/24/17 17:04	07/25/17 15:46	1

Client Sample ID: TP-05

Lab Sample ID: 480-121321-5
Date Collected: 07/19/17 14:00
Matrix: Solid
Date Received: 07/19/17 17:00
Percent Solids: 79.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vanadium	25.0		0.62	0.14	mg/Kg	☼	07/24/17 17:04	07/25/17 15:46	1
Zinc	41.6		2.5	0.79	mg/Kg	☼	07/24/17 17:04	07/25/17 15:46	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.032		0.025	0.010	mg/Kg	☼	07/24/17 12:35	07/24/17 15:06	1

Client Sample ID: DUP

Lab Sample ID: 480-121321-6
Date Collected: 07/19/17 00:00
Matrix: Solid
Date Received: 07/19/17 17:00
Percent Solids: 82.4

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	vs	6.0	0.43	ug/Kg	☼	07/25/17 08:33	07/25/17 15:34	1
1,1,2,2-Tetrachloroethane	ND	vs	6.0	0.97	ug/Kg	☼	07/25/17 08:33	07/25/17 15:34	1
1,1,2-Trichloroethane	ND	vs	6.0	0.78	ug/Kg	☼	07/25/17 08:33	07/25/17 15:34	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	vs	6.0	1.4	ug/Kg	☼	07/25/17 08:33	07/25/17 15:34	1
1,1-Dichloroethane	ND	vs	6.0	0.73	ug/Kg	☼	07/25/17 08:33	07/25/17 15:34	1
1,1-Dichloroethene	ND	vs	6.0	0.73	ug/Kg	☼	07/25/17 08:33	07/25/17 15:34	1
1,2,4-Trichlorobenzene	ND	vs	6.0	0.36	ug/Kg	☼	07/25/17 08:33	07/25/17 15:34	1
1,2-Dibromo-3-Chloropropane	ND	vs	6.0	3.0	ug/Kg	☼	07/25/17 08:33	07/25/17 15:34	1
1,2-Dibromoethane	ND	vs	6.0	0.77	ug/Kg	☼	07/25/17 08:33	07/25/17 15:34	1
1,2-Dichlorobenzene	ND	vs	6.0	0.47	ug/Kg	☼	07/25/17 08:33	07/25/17 15:34	1
1,2-Dichloroethane	ND	vs	6.0	0.30	ug/Kg	☼	07/25/17 08:33	07/25/17 15:34	1
1,2-Dichloropropane	ND	vs	6.0	3.0	ug/Kg	☼	07/25/17 08:33	07/25/17 15:34	1
1,3-Dichlorobenzene	ND	vs	6.0	0.31	ug/Kg	☼	07/25/17 08:33	07/25/17 15:34	1
1,4-Dichlorobenzene	ND	vs	6.0	0.84	ug/Kg	☼	07/25/17 08:33	07/25/17 15:34	1
2-Hexanone	ND	vs	30	3.0	ug/Kg	☼	07/25/17 08:33	07/25/17 15:34	1
2-Butanone (MEK)	ND	vs	30	2.2	ug/Kg	☼	07/25/17 08:33	07/25/17 15:34	1
4-Methyl-2-pentanone (MIBK)	ND	vs	30	2.0	ug/Kg	☼	07/25/17 08:33	07/25/17 15:34	1
Acetone	ND	vs	30	5.0	ug/Kg	☼	07/25/17 08:33	07/25/17 15:34	1
Benzene	ND	vs	6.0	0.29	ug/Kg	☼	07/25/17 08:33	07/25/17 15:34	1
Bromodichloromethane	ND	vs	6.0	0.80	ug/Kg	☼	07/25/17 08:33	07/25/17 15:34	1
Bromoform	ND	vs	6.0	3.0	ug/Kg	☼	07/25/17 08:33	07/25/17 15:34	1
Bromomethane	ND	vs	6.0	0.54	ug/Kg	☼	07/25/17 08:33	07/25/17 15:34	1
Carbon disulfide	ND	vs	6.0	3.0	ug/Kg	☼	07/25/17 08:33	07/25/17 15:34	1
Carbon tetrachloride	ND	vs	6.0	0.58	ug/Kg	☼	07/25/17 08:33	07/25/17 15:34	1
Chlorobenzene	ND	vs	6.0	0.79	ug/Kg	☼	07/25/17 08:33	07/25/17 15:34	1
Dibromochloromethane	ND	vs	6.0	0.77	ug/Kg	☼	07/25/17 08:33	07/25/17 15:34	1
Chloroethane	ND	* vs	6.0	1.4	ug/Kg	☼	07/25/17 08:33	07/25/17 15:34	1
Chloroform	ND	vs	6.0	0.37	ug/Kg	☼	07/25/17 08:33	07/25/17 15:34	1
Chloromethane	ND	vs	6.0	0.36	ug/Kg	☼	07/25/17 08:33	07/25/17 15:34	1
cis-1,2-Dichloroethene	ND	vs	6.0	0.77	ug/Kg	☼	07/25/17 08:33	07/25/17 15:34	1
cis-1,3-Dichloropropene	ND	vs	6.0	0.86	ug/Kg	☼	07/25/17 08:33	07/25/17 15:34	1
Cyclohexane	ND	vs	6.0	0.84	ug/Kg	☼	07/25/17 08:33	07/25/17 15:34	1
Dichlorodifluoromethane	ND	vs	6.0	0.49	ug/Kg	☼	07/25/17 08:33	07/25/17 15:34	1
Ethylbenzene	ND	vs	6.0	0.41	ug/Kg	☼	07/25/17 08:33	07/25/17 15:34	1
Isopropylbenzene	ND	vs	6.0	0.90	ug/Kg	☼	07/25/17 08:33	07/25/17 15:34	1
Methyl acetate	ND	vs	30	3.6	ug/Kg	☼	07/25/17 08:33	07/25/17 15:34	1
Methyl tert-butyl ether	ND	vs	6.0	0.59	ug/Kg	☼	07/25/17 08:33	07/25/17 15:34	1

Client Sample ID: DUP

Date Collected: 07/19/17 00:00
Date Received: 07/19/17 17:00

Lab Sample ID: 480-121321-6

Matrix: Solid
Percent Solids: 82.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylcyclohexane	ND	vs	6.0	0.91	ug/Kg	☼	07/25/17 08:33	07/25/17 15:34	1
Methylene Chloride	ND	vs	6.0	2.8	ug/Kg	☼	07/25/17 08:33	07/25/17 15:34	1
Styrene	ND	vs	6.0	0.30	ug/Kg	☼	07/25/17 08:33	07/25/17 15:34	1
Tetrachloroethene	ND	vs	6.0	0.80	ug/Kg	☼	07/25/17 08:33	07/25/17 15:34	1
Toluene	ND	vs	6.0	0.45	ug/Kg	☼	07/25/17 08:33	07/25/17 15:34	1
trans-1,2-Dichloroethene	ND	vs	6.0	0.62	ug/Kg	☼	07/25/17 08:33	07/25/17 15:34	1
trans-1,3-Dichloropropene	ND	vs	6.0	2.6	ug/Kg	☼	07/25/17 08:33	07/25/17 15:34	1
Trichloroethene	ND	vs	6.0	1.3	ug/Kg	☼	07/25/17 08:33	07/25/17 15:34	1
Trichlorofluoromethane	ND	vs	6.0	0.57	ug/Kg	☼	07/25/17 08:33	07/25/17 15:34	1
Vinyl chloride	ND	vs	6.0	0.73	ug/Kg	☼	07/25/17 08:33	07/25/17 15:34	1
Xylenes, Total	ND	vs	12	1.0	ug/Kg	☼	07/25/17 08:33	07/25/17 15:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*64 - 126*	*07/25/17 08:33*	*07/25/17 15:34*	*1*
Toluene-d8 (Surr)	*98*		*71 - 125*	*07/25/17 08:33*	*07/25/17 15:34*	*1*
4-Bromofluorobenzene (Surr)	*92*		*72 - 126*	*07/25/17 08:33*	*07/25/17 15:34*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		200	30	ug/Kg	☼	07/20/17 07:46	07/25/17 20:12	1
bis (2-chloroisopropyl) ether	ND		200	41	ug/Kg	☼	07/20/17 07:46	07/25/17 20:12	1
2,4,5-Trichlorophenol	ND		200	55	ug/Kg	☼	07/20/17 07:46	07/25/17 20:12	1
2,4,6-Trichlorophenol	ND		200	41	ug/Kg	☼	07/20/17 07:46	07/25/17 20:12	1
2,4-Dichlorophenol	ND		200	22	ug/Kg	☼	07/20/17 07:46	07/25/17 20:12	1
2,4-Dimethylphenol	ND		200	49	ug/Kg	☼	07/20/17 07:46	07/25/17 20:12	1
2,4-Dinitrophenol	ND		2000	940	ug/Kg	☼	07/20/17 07:46	07/25/17 20:12	1
2,4-Dinitrotoluene	ND		200	42	ug/Kg	☼	07/20/17 07:46	07/25/17 20:12	1
2,6-Dinitrotoluene	ND		200	24	ug/Kg	☼	07/20/17 07:46	07/25/17 20:12	1
2-Chloronaphthalene	ND		200	34	ug/Kg	☼	07/20/17 07:46	07/25/17 20:12	1
2-Chlorophenol	ND		200	37	ug/Kg	☼	07/20/17 07:46	07/25/17 20:12	1
2-Methylnaphthalene	ND		200	41	ug/Kg	☼	07/20/17 07:46	07/25/17 20:12	1
2-Methylphenol	ND		200	24	ug/Kg	☼	07/20/17 07:46	07/25/17 20:12	1
2-Nitroaniline	ND		400	30	ug/Kg	☼	07/20/17 07:46	07/25/17 20:12	1
2-Nitrophenol	ND		200	58	ug/Kg	☼	07/20/17 07:46	07/25/17 20:12	1
3,3'-Dichlorobenzidine	ND		400	240	ug/Kg	☼	07/20/17 07:46	07/25/17 20:12	1
3-Nitroaniline	ND		400	57	ug/Kg	☼	07/20/17 07:46	07/25/17 20:12	1
4,6-Dinitro-2-methylphenol	ND		400	200	ug/Kg	☼	07/20/17 07:46	07/25/17 20:12	1
4-Bromophenyl phenyl ether	ND		200	29	ug/Kg	☼	07/20/17 07:46	07/25/17 20:12	1
4-Chloro-3-methylphenol	ND		200	50	ug/Kg	☼	07/20/17 07:46	07/25/17 20:12	1
4-Chloroaniline	ND		200	50	ug/Kg	☼	07/20/17 07:46	07/25/17 20:12	1
4-Chlorophenyl phenyl ether	ND		200	25	ug/Kg	☼	07/20/17 07:46	07/25/17 20:12	1
4-Methylphenol	ND		400	24	ug/Kg	☼	07/20/17 07:46	07/25/17 20:12	1
4-Nitroaniline	ND		400	110	ug/Kg	☼	07/20/17 07:46	07/25/17 20:12	1
4-Nitrophenol	ND		400	140	ug/Kg	☼	07/20/17 07:46	07/25/17 20:12	1
Acenaphthene	ND		200	30	ug/Kg	☼	07/20/17 07:46	07/25/17 20:12	1
Acenaphthylene	ND		200	26	ug/Kg	☼	07/20/17 07:46	07/25/17 20:12	1
Acetophenone	ND		200	28	ug/Kg	☼	07/20/17 07:46	07/25/17 20:12	1
Anthracene	ND		200	50	ug/Kg	☼	07/20/17 07:46	07/25/17 20:12	1
Atrazine	ND		200	71	ug/Kg	☼	07/20/17 07:46	07/25/17 20:12	1
Benzaldehyde	ND		200	160	ug/Kg	☼	07/20/17 07:46	07/25/17 20:12	1

Client Sample ID: DUP

Date Collected: 07/19/17 00:00
Date Received: 07/19/17 17:00

Lab Sample ID: 480-121321-6

Matrix: Solid
Percent Solids: 82.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo(a)anthracene	ND		200	20	ug/Kg	☼	07/20/17 07:46	07/25/17 20:12	1
Benzo(a)pyrene	ND		200	30	ug/Kg	☼	07/20/17 07:46	07/25/17 20:12	1
Benzo(b)fluoranthene	ND		200	32	ug/Kg	☼	07/20/17 07:46	07/25/17 20:12	1
Benzo(g,h,i)perylene	ND		200	22	ug/Kg	☼	07/20/17 07:46	07/25/17 20:12	1
Benzo(k)fluoranthene	ND		200	26	ug/Kg	☼	07/20/17 07:46	07/25/17 20:12	1
Bis(2-chloroethoxy)methane	ND		200	43	ug/Kg	☼	07/20/17 07:46	07/25/17 20:12	1
Bis(2-chloroethyl)ether	ND		200	26	ug/Kg	☼	07/20/17 07:46	07/25/17 20:12	1
Bis(2-ethylhexyl) phthalate	ND		200	70	ug/Kg	☼	07/20/17 07:46	07/25/17 20:12	1
Butyl benzyl phthalate	ND		200	34	ug/Kg	☼	07/20/17 07:46	07/25/17 20:12	1
Caprolactam	ND		200	61	ug/Kg	☼	07/20/17 07:46	07/25/17 20:12	1
Carbazole	ND		200	24	ug/Kg	☼	07/20/17 07:46	07/25/17 20:12	1
Chrysene	ND		200	46	ug/Kg	☼	07/20/17 07:46	07/25/17 20:12	1
Di-n-butyl phthalate	ND		200	35	ug/Kg	☼	07/20/17 07:46	07/25/17 20:12	1
Di-n-octyl phthalate	ND		200	24	ug/Kg	☼	07/20/17 07:46	07/25/17 20:12	1
Dibenz(a,h)anthracene	ND		200	36	ug/Kg	☼	07/20/17 07:46	07/25/17 20:12	1
Dibenzofuran	ND		200	24	ug/Kg	☼	07/20/17 07:46	07/25/17 20:12	1
Diethyl phthalate	ND		200	26	ug/Kg	☼	07/20/17 07:46	07/25/17 20:12	1
Dimethyl phthalate	ND		200	24	ug/Kg	☼	07/20/17 07:46	07/25/17 20:12	1
Fluoranthene	ND		200	22	ug/Kg	☼	07/20/17 07:46	07/25/17 20:12	1
Fluorene	ND		200	24	ug/Kg	☼	07/20/17 07:46	07/25/17 20:12	1
Hexachlorobenzene	ND		200	28	ug/Kg	☼	07/20/17 07:46	07/25/17 20:12	1
Hexachlorobutadiene	ND		200	30	ug/Kg	☼	07/20/17 07:46	07/25/17 20:12	1
Hexachlorocyclopentadiene	ND		200	28	ug/Kg	☼	07/20/17 07:46	07/25/17 20:12	1
Hexachloroethane	ND		200	26	ug/Kg	☼	07/20/17 07:46	07/25/17 20:12	1
Indeno(1,2,3-cd)pyrene	ND		200	25	ug/Kg	☼	07/20/17 07:46	07/25/17 20:12	1
Isophorone	ND		200	43	ug/Kg	☼	07/20/17 07:46	07/25/17 20:12	1
N-Nitrosodi-n-propylamine	ND		200	35	ug/Kg	☼	07/20/17 07:46	07/25/17 20:12	1
N-Nitrosodiphenylamine	ND		200	170	ug/Kg	☼	07/20/17 07:46	07/25/17 20:12	1
Naphthalene	ND		200	26	ug/Kg	☼	07/20/17 07:46	07/25/17 20:12	1
Nitrobenzene	ND		200	23	ug/Kg	☼	07/20/17 07:46	07/25/17 20:12	1
Pentachlorophenol	ND		400	200	ug/Kg	☼	07/20/17 07:46	07/25/17 20:12	1
Phenanthrene	ND		200	30	ug/Kg	☼	07/20/17 07:46	07/25/17 20:12	1
Phenol	ND		200	31	ug/Kg	☼	07/20/17 07:46	07/25/17 20:12	1
Pyrene	ND		200	24	ug/Kg	☼	07/20/17 07:46	07/25/17 20:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*88*		*54 - 120*	*07/20/17 07:46*	*07/25/17 20:12*	*1*
2-Fluorobiphenyl	*78*		*60 - 120*	*07/20/17 07:46*	*07/25/17 20:12*	*1*
2-Fluorophenol	*67*		*52 - 120*	*07/20/17 07:46*	*07/25/17 20:12*	*1*
Nitrobenzene-d5	*78*		*53 - 120*	*07/20/17 07:46*	*07/25/17 20:12*	*1*
p-Terphenyl-d14	*94*		*65 - 121*	*07/20/17 07:46*	*07/25/17 20:12*	*1*
Phenol-d5	*63*		*54 - 120*	*07/20/17 07:46*	*07/25/17 20:12*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.0	0.39	ug/Kg	☼	07/21/17 06:42	07/22/17 15:03	1
4,4'-DDE	**0.46**	**J**	2.0	0.42	ug/Kg	☼	07/21/17 06:42	07/22/17 15:03	1
4,4'-DDT	**0.87**	**J**	2.0	0.47	ug/Kg	☼	07/21/17 06:42	07/22/17 15:03	1
Aldrin	ND		2.0	0.49	ug/Kg	☼	07/21/17 06:42	07/22/17 15:03	1
alpha-BHC	ND		2.0	0.36	ug/Kg	☼	07/21/17 06:42	07/22/17 15:03	1

Client Sample ID: DUP
Date Collected: 07/19/17 00:00
Date Received: 07/19/17 17:00

Lab Sample ID: 480-121321-6
Matrix: Solid
Percent Solids: 82.4

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-Chlordane	ND		2.0	1.0	ug/Kg	☼	07/21/17 06:42	07/22/17 15:03	1
beta-BHC	ND		2.0	0.36	ug/Kg	☼	07/21/17 06:42	07/22/17 15:03	1
delta-BHC	ND		2.0	0.37	ug/Kg	☼	07/21/17 06:42	07/22/17 15:03	1
Dieldrin	ND		2.0	0.48	ug/Kg	☼	07/21/17 06:42	07/22/17 15:03	1
Endosulfan I	ND		2.0	0.38	ug/Kg	☼	07/21/17 06:42	07/22/17 15:03	1
Endosulfan II	ND		2.0	0.36	ug/Kg	☼	07/21/17 06:42	07/22/17 15:03	1
Endosulfan sulfate	ND		2.0	0.37	ug/Kg	☼	07/21/17 06:42	07/22/17 15:03	1
Endrin	ND		2.0	0.40	ug/Kg	☼	07/21/17 06:42	07/22/17 15:03	1
Endrin aldehyde	ND		2.0	0.51	ug/Kg	☼	07/21/17 06:42	07/22/17 15:03	1
Endrin ketone	ND		2.0	0.49	ug/Kg	☼	07/21/17 06:42	07/22/17 15:03	1
gamma-BHC (Lindane)	ND		2.0	0.37	ug/Kg	☼	07/21/17 06:42	07/22/17 15:03	1
gamma-Chlordane	ND		2.0	0.64	ug/Kg	☼	07/21/17 06:42	07/22/17 15:03	1
Heptachlor	ND		2.0	0.43	ug/Kg	☼	07/21/17 06:42	07/22/17 15:03	1
Heptachlor epoxide	ND		2.0	0.52	ug/Kg	☼	07/21/17 06:42	07/22/17 15:03	1
Methoxychlor	ND		2.0	0.41	ug/Kg	☼	07/21/17 06:42	07/22/17 15:03	1
Toxaphene	ND		20	12	ug/Kg	☼	07/21/17 06:42	07/22/17 15:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*94*		*45 - 120*	*07/21/17 06:42*	*07/22/17 15:03*	*1*
DCB Decachlorobiphenyl	*106*		*45 - 120*	*07/21/17 06:42*	*07/22/17 15:03*	*1*
Tetrachloro-m-xylene	*78*		*30 - 124*	*07/21/17 06:42*	*07/22/17 15:03*	*1*
Tetrachloro-m-xylene	*75*		*30 - 124*	*07/21/17 06:42*	*07/22/17 15:03*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.22	0.042	mg/Kg	☼	07/20/17 10:58	07/20/17 19:59	1
PCB-1221	ND		0.22	0.042	mg/Kg	☼	07/20/17 10:58	07/20/17 19:59	1
PCB-1232	ND		0.22	0.042	mg/Kg	☼	07/20/17 10:58	07/20/17 19:59	1
PCB-1242	ND		0.22	0.042	mg/Kg	☼	07/20/17 10:58	07/20/17 19:59	1
PCB-1248	ND		0.22	0.042	mg/Kg	☼	07/20/17 10:58	07/20/17 19:59	1
PCB-1254	ND		0.22	0.10	mg/Kg	☼	07/20/17 10:58	07/20/17 19:59	1
PCB-1260	ND		0.22	0.10	mg/Kg	☼	07/20/17 10:58	07/20/17 19:59	1
PCB-1262	ND		0.22	0.10	mg/Kg	☼	07/20/17 10:58	07/20/17 19:59	1
PCB-1268	ND		0.22	0.10	mg/Kg	☼	07/20/17 10:58	07/20/17 19:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*142*		*60 - 154*	*07/20/17 10:58*	*07/20/17 19:59*	*1*
Tetrachloro-m-xylene	*130*		*60 - 154*	*07/20/17 10:58*	*07/20/17 19:59*	*1*
DCB Decachlorobiphenyl	*120*		*65 - 174*	*07/20/17 10:58*	*07/20/17 19:59*	*1*
DCB Decachlorobiphenyl	*114*		*65 - 174*	*07/20/17 10:58*	*07/20/17 19:59*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**12600**		11.0	4.9	mg/Kg	☼	07/24/17 17:04	07/25/17 15:50	1
Antimony	ND		16.6	0.44	mg/Kg	☼	07/24/17 17:04	07/25/17 15:50	1
Arsenic	**3.3**		2.2	0.44	mg/Kg	☼	07/24/17 17:04	07/25/17 15:50	1
Barium	**55.0**		0.55	0.12	mg/Kg	☼	07/24/17 17:04	07/25/17 15:50	1
Beryllium	**0.37**		0.22	0.031	mg/Kg	☼	07/24/17 17:04	07/25/17 15:50	1
Cadmium	**0.053**	**J**	0.22	0.033	mg/Kg	☼	07/24/17 17:04	07/25/17 15:50	1
Calcium	**11500**	**B**	55.2	3.6	mg/Kg	☼	07/24/17 17:04	07/25/17 15:50	1

Client Sample ID: DUP

Date Collected: 07/19/17 00:00
Date Received: 07/19/17 17:00

Lab Sample ID: 480-121321-6

Matrix: Solid
Percent Solids: 82.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	**15.2**		0.55	0.22	mg/Kg	☼	07/24/17 17:04	07/25/17 15:50	1
Cobalt	**4.2**		0.55	0.055	mg/Kg	☼	07/24/17 17:04	07/25/17 15:50	1
Copper	**10.0**		1.1	0.23	mg/Kg	☼	07/24/17 17:04	07/25/17 15:50	1
Iron	**13700**		11.0	3.9	mg/Kg	☼	07/24/17 17:04	07/25/17 15:50	1
Lead	**9.8**		1.1	0.27	mg/Kg	☼	07/24/17 17:04	07/25/17 15:50	1
Magnesium	**5890**		22.1	1.0	mg/Kg	☼	07/24/17 17:04	07/25/17 15:50	1
Manganese	**264**	**B ^**	0.22	0.035	mg/Kg	☼	07/24/17 17:04	07/25/17 15:50	1
Nickel	**12.6**		5.5	0.25	mg/Kg	☼	07/24/17 17:04	07/25/17 15:50	1
Potassium	**1360**		33.1	22.1	mg/Kg	☼	07/24/17 17:04	07/25/17 15:50	1
Selenium	ND		4.4	0.44	mg/Kg	☼	07/24/17 17:04	07/25/17 15:50	1
Silver	ND		0.66	0.22	mg/Kg	☼	07/24/17 17:04	07/25/17 15:50	1
Sodium	**304**	**B**	155	14.4	mg/Kg	☼	07/24/17 17:04	07/25/17 15:50	1
Thallium	ND		6.6	0.33	mg/Kg	☼	07/24/17 17:04	07/25/17 15:50	1
Vanadium	**27.5**		0.55	0.12	mg/Kg	☼	07/24/17 17:04	07/25/17 15:50	1
Zinc	**44.0**		2.2	0.71	mg/Kg	☼	07/24/17 17:04	07/25/17 15:50	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.027**		0.024	0.0097	mg/Kg	☼	07/24/17 12:35	07/24/17 15:07	1

Surrogate Summary

Client: New York State D.E.C.
Project/Site: Nash Rd. Wheatfield #932054

TestAmerica Job ID: 480-121321-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		12DCE	TOL	BFB
Lab Sample ID	Client Sample ID	(64-126)	(71-125)	(72-126)
480-121321-1	TP-01	109	96	95
480-121321-2	TP-03	107	96	95
480-121321-3	TP-18	102	100	90
480-121321-4	TP-04	102	99	93
480-121321-4 MS	TP-04	88	99	93
480-121321-4 MSD	TP-04	87	98	92
480-121321-5	TP-05	102	96	93
480-121321-6	DUP	102	98	92
LCS 480-368516/1-A	Lab Control Sample	107	100	98
MB 480-368516/2-A	Method Blank	104	99	98

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)
BFB = 4-Bromofluorobenzene (Surr)

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

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	TPH	PHL
Lab Sample ID	Client Sample ID	(54-120)	(60-120)	(52-120)	(53-120)	(65-121)	(54-120)
480-121321-1	TP-01	153 X	85	70	151 X	87	64
480-121321-2	TP-03	89	78	69	78	95	66
480-121321-3	TP-18	94	45 X	60	65	83	58
480-121321-4	TP-04	89	81	71	83	98	66
480-121321-4 MS	TP-04	105	83	68	83	90	64
480-121321-4 MSD	TP-04	106	84	70	86	98	66
480-121321-5	TP-05	84	76	65	75	87	62
480-121321-6	DUP	88	78	67	78	94	63
LCS 480-367823/2-A	Lab Control Sample	107	84	68	81	87	64
MB 480-367823/1-A	Method Blank	88	84	75	84	100	71

Surrogate Legend

TBP = 2,4,6-Tribromophenol
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
TPH = p-Terphenyl-d14
PHL = Phenol-d5

Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCB1	DCB2	TCX1	TCX2
Lab Sample ID	Client Sample ID	(45-120)	(45-120)	(30-124)	(30-124)
480-121321-1	TP-01	87	102	72	59
480-121321-2	TP-03	95	107	73	73
480-121321-3	TP-18	114	127 X	207 X	108

Surrogate Summary

Client: New York State D.E.C.
Project/Site: Nash Rd. Wheatfield #932054

TestAmerica Job ID: 480-121321-1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCB1	DCB2	TCX1	TCX2
Lab Sample ID	Client Sample ID	(45-120)	(45-120)	(30-124)	(30-124)
480-121321-4	TP-04	95	105	73	73
480-121321-4 MS	TP-04	97	106	72	73
480-121321-4 MSD	TP-04	100	112	82	77
480-121321-5	TP-05	96	108	76	78
480-121321-6	DUP	94	106	78	75
LCS 480-368029/2-A	Lab Control Sample	92	100	71	57
MB 480-368029/1-A	Method Blank	96	101	70	59

Surrogate Legend

DCB = DCB Decachlorobiphenyl

TCX = Tetrachloro-m-xylene

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		TCX1	TCX2	DCB1	DCB2
Lab Sample ID	Client Sample ID	(60-154)	(60-154)	(65-174)	(65-174)
480-121321-1	TP-01	137	125	115	112
480-121321-2	TP-03	142	147	134	126
480-121321-3	TP-18	144	133	125	119
480-121321-4	TP-04	144	149	140	134
480-121321-4 MS	TP-04	150	142	137	131
480-121321-4 MSD	TP-04	170 X	138	133	125
480-121321-5	TP-05	141	126	125	115
480-121321-6	DUP	142	130	120	114
LCS 480-367916/2-A	Lab Control Sample	154	144	145	133
MB 480-367916/1-A	Method Blank	139	147	146	138

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCB = DCB Decachlorobiphenyl

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-368516/2-A
Matrix: Solid
Analysis Batch: 368496

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 368516

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.36	ug/Kg		07/25/17 08:33	07/25/17 10:52	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.81	ug/Kg		07/25/17 08:33	07/25/17 10:52	1
1,1,2-Trichloroethane	ND		5.0	0.65	ug/Kg		07/25/17 08:33	07/25/17 10:52	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.1	ug/Kg		07/25/17 08:33	07/25/17 10:52	1
1,1-Dichloroethane	ND		5.0	0.61	ug/Kg		07/25/17 08:33	07/25/17 10:52	1
1,1-Dichloroethene	ND		5.0	0.61	ug/Kg		07/25/17 08:33	07/25/17 10:52	1
1,2,4-Trichlorobenzene	0.539	J	5.0	0.30	ug/Kg		07/25/17 08:33	07/25/17 10:52	1
1,2-Dibromo-3-Chloropropane	ND		5.0	2.5	ug/Kg		07/25/17 08:33	07/25/17 10:52	1
1,2-Dibromoethane	ND		5.0	0.64	ug/Kg		07/25/17 08:33	07/25/17 10:52	1
1,2-Dichlorobenzene	ND		5.0	0.39	ug/Kg		07/25/17 08:33	07/25/17 10:52	1
1,2-Dichloroethane	ND		5.0	0.25	ug/Kg		07/25/17 08:33	07/25/17 10:52	1
1,2-Dichloropropane	ND		5.0	2.5	ug/Kg		07/25/17 08:33	07/25/17 10:52	1
1,3-Dichlorobenzene	ND		5.0	0.26	ug/Kg		07/25/17 08:33	07/25/17 10:52	1
1,4-Dichlorobenzene	ND		5.0	0.70	ug/Kg		07/25/17 08:33	07/25/17 10:52	1
2-Hexanone	ND		25	2.5	ug/Kg		07/25/17 08:33	07/25/17 10:52	1
2-Butanone (MEK)	ND		25	1.8	ug/Kg		07/25/17 08:33	07/25/17 10:52	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.6	ug/Kg		07/25/17 08:33	07/25/17 10:52	1
Acetone	4.82	J	25	4.2	ug/Kg		07/25/17 08:33	07/25/17 10:52	1
Benzene	ND		5.0	0.25	ug/Kg		07/25/17 08:33	07/25/17 10:52	1
Bromodichloromethane	ND		5.0	0.67	ug/Kg		07/25/17 08:33	07/25/17 10:52	1
Bromoform	ND		5.0	2.5	ug/Kg		07/25/17 08:33	07/25/17 10:52	1
Bromomethane	ND		5.0	0.45	ug/Kg		07/25/17 08:33	07/25/17 10:52	1
Carbon disulfide	ND		5.0	2.5	ug/Kg		07/25/17 08:33	07/25/17 10:52	1
Carbon tetrachloride	ND		5.0	0.48	ug/Kg		07/25/17 08:33	07/25/17 10:52	1
Chlorobenzene	ND		5.0	0.66	ug/Kg		07/25/17 08:33	07/25/17 10:52	1
Dibromochloromethane	ND		5.0	0.64	ug/Kg		07/25/17 08:33	07/25/17 10:52	1
Chloroethane	ND		5.0	1.1	ug/Kg		07/25/17 08:33	07/25/17 10:52	1
Chloroform	ND		5.0	0.31	ug/Kg		07/25/17 08:33	07/25/17 10:52	1
Chloromethane	ND		5.0	0.30	ug/Kg		07/25/17 08:33	07/25/17 10:52	1
cis-1,2-Dichloroethene	ND		5.0	0.64	ug/Kg		07/25/17 08:33	07/25/17 10:52	1
cis-1,3-Dichloropropene	ND		5.0	0.72	ug/Kg		07/25/17 08:33	07/25/17 10:52	1
Cyclohexane	ND		5.0	0.70	ug/Kg		07/25/17 08:33	07/25/17 10:52	1
Dichlorodifluoromethane	ND		5.0	0.41	ug/Kg		07/25/17 08:33	07/25/17 10:52	1
Ethylbenzene	ND		5.0	0.35	ug/Kg		07/25/17 08:33	07/25/17 10:52	1
Isopropylbenzene	ND		5.0	0.75	ug/Kg		07/25/17 08:33	07/25/17 10:52	1
Methyl acetate	ND		25	3.0	ug/Kg		07/25/17 08:33	07/25/17 10:52	1
Methyl tert-butyl ether	ND		5.0	0.49	ug/Kg		07/25/17 08:33	07/25/17 10:52	1
Methylcyclohexane	ND		5.0	0.76	ug/Kg		07/25/17 08:33	07/25/17 10:52	1
Methylene Chloride	ND		5.0	2.3	ug/Kg		07/25/17 08:33	07/25/17 10:52	1
Styrene	ND		5.0	0.25	ug/Kg		07/25/17 08:33	07/25/17 10:52	1
Tetrachloroethene	ND		5.0	0.67	ug/Kg		07/25/17 08:33	07/25/17 10:52	1
Toluene	ND		5.0	0.38	ug/Kg		07/25/17 08:33	07/25/17 10:52	1
trans-1,2-Dichloroethene	ND		5.0	0.52	ug/Kg		07/25/17 08:33	07/25/17 10:52	1
trans-1,3-Dichloropropene	ND		5.0	2.2	ug/Kg		07/25/17 08:33	07/25/17 10:52	1
Trichloroethene	ND		5.0	1.1	ug/Kg		07/25/17 08:33	07/25/17 10:52	1
Trichlorofluoromethane	ND		5.0	0.47	ug/Kg		07/25/17 08:33	07/25/17 10:52	1
Vinyl chloride	ND		5.0	0.61	ug/Kg		07/25/17 08:33	07/25/17 10:52	1
Xylenes, Total	ND		10	0.84	ug/Kg		07/25/17 08:33	07/25/17 10:52	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		64 - 126	07/25/17 08:33	07/25/17 10:52	1
Toluene-d8 (Surr)	99		71 - 125	07/25/17 08:33	07/25/17 10:52	1
4-Bromofluorobenzene (Surr)	98		72 - 126	07/25/17 08:33	07/25/17 10:52	1

Lab Sample ID: LCS 480-368516/1-A
Matrix: Solid
Analysis Batch: 368496

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 368516

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	50.0	45.4		ug/Kg		91	77 - 121
1,1,2,2-Tetrachloroethane	50.0	53.2		ug/Kg		106	80 - 120
1,1,2-Trichloroethane	50.0	49.1		ug/Kg		98	78 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	38.7		ug/Kg		77	60 - 140
1,1-Dichloroethane	50.0	46.4		ug/Kg		93	73 - 126
1,1-Dichloroethene	50.0	41.1		ug/Kg		82	59 - 125
1,2,4-Trichlorobenzene	50.0	45.8		ug/Kg		92	64 - 120
1,2-Dibromo-3-Chloropropane	50.0	59.9		ug/Kg		120	63 - 124
1,2-Dibromoethane	50.0	51.2		ug/Kg		102	78 - 120
1,2-Dichlorobenzene	50.0	47.0		ug/Kg		94	75 - 120
1,2-Dichloroethane	50.0	49.9		ug/Kg		100	77 - 122
1,2-Dichloropropane	50.0	47.2		ug/Kg		94	75 - 124
1,3-Dichlorobenzene	50.0	46.6		ug/Kg		93	74 - 120
1,4-Dichlorobenzene	50.0	46.5		ug/Kg		93	73 - 120
2-Hexanone	250	287		ug/Kg		115	59 - 130
2-Butanone (MEK)	250	297		ug/Kg		119	70 - 134
4-Methyl-2-pentanone (MIBK)	250	276		ug/Kg		110	65 - 133
Acetone	250	296		ug/Kg		118	61 - 137
Benzene	50.0	45.5		ug/Kg		91	79 - 127
Bromodichloromethane	50.0	53.9		ug/Kg		108	80 - 122
Bromoform	50.0	52.2		ug/Kg		104	68 - 126
Bromomethane	50.0	69.5		ug/Kg		139	37 - 149
Carbon disulfide	50.0	39.0		ug/Kg		78	64 - 131
Carbon tetrachloride	50.0	49.2		ug/Kg		98	75 - 135
Chlorobenzene	50.0	45.3		ug/Kg		91	76 - 124
Dibromochloromethane	50.0	50.1		ug/Kg		100	76 - 125
Chloroethane	50.0	69.9	*	ug/Kg		140	69 - 135
Chloroform	50.0	46.9		ug/Kg		94	80 - 120
Chloromethane	50.0	48.5		ug/Kg		97	63 - 127
cis-1,2-Dichloroethene	50.0	47.5		ug/Kg		95	81 - 120
cis-1,3-Dichloropropene	50.0	50.3		ug/Kg		101	80 - 120
Cyclohexane	50.0	39.3		ug/Kg		79	65 - 120
Dichlorodifluoromethane	50.0	42.9		ug/Kg		86	57 - 142
Ethylbenzene	50.0	45.3		ug/Kg		91	80 - 120
Isopropylbenzene	50.0	44.1		ug/Kg		88	72 - 120
Methyl acetate	250	282		ug/Kg		113	55 - 136
Methyl tert-butyl ether	50.0	51.8		ug/Kg		104	63 - 125
Methylcyclohexane	50.0	38.0		ug/Kg		76	60 - 140
Methylene Chloride	50.0	49.4		ug/Kg		99	61 - 127
Styrene	50.0	45.8		ug/Kg		92	80 - 120
Tetrachloroethene	50.0	41.6		ug/Kg		83	74 - 122
Toluene	50.0	44.3		ug/Kg		89	74 - 128
trans-1,2-Dichloroethene	50.0	44.4		ug/Kg		89	78 - 126
trans-1,3-Dichloropropene	50.0	52.7		ug/Kg		105	73 - 123

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

Lab Sample ID: LCS 480-368516/1-A
Matrix: Solid
Analysis Batch: 368496

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 368516

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Trichloroethene	50.0	44.2		ug/Kg		88	77 - 129
Trichlorofluoromethane	50.0	43.6		ug/Kg		87	65 - 146
Vinyl chloride	50.0	45.4		ug/Kg		91	61 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*107*		*64 - 126*
Toluene-d8 (Surr)	*100*		*71 - 125*
4-Bromofluorobenzene (Surr)	*98*		*72 - 126*

Lab Sample ID: 480-121321-4 MS
Matrix: Solid
Analysis Batch: 368496

Client Sample ID: TP-04
Prep Type: Total/NA
Prep Batch: 368516

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	ND	F1 vs	60.9	39.7	F1 vs	ug/Kg	☼	65	77 - 121
1,1,2,2-Tetrachloroethane	ND	F1 vs	60.9	45.9	F1 vs	ug/Kg	☼	75	80 - 120
1,1,2-Trichloroethane	ND	F1 vs	60.9	47.1	F1 vs	ug/Kg	☼	77	78 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	F1 vs	60.9	24.9	F1 vs	ug/Kg	☼	41	60 - 140
1,1-Dichloroethane	ND	vs	60.9	47.7	vs	ug/Kg	☼	78	73 - 126
1,1-Dichloroethene	ND	F1 vs	60.9	34.6	F1 vs	ug/Kg	☼	57	59 - 125
1,2,4-Trichlorobenzene	ND	F1 vs	60.9	34.4	F1 vs	ug/Kg	☼	56	64 - 120
1,2-Dibromo-3-Chloropropane	ND	F1 vs	60.9	39.0	vs	ug/Kg	☼	64	63 - 124
1,2-Dibromoethane	ND	F1 vs	60.9	45.4	F1 vs	ug/Kg	☼	75	78 - 120
1,2-Dichlorobenzene	ND	F1 vs	60.9	47.7	vs	ug/Kg	☼	78	75 - 120
1,2-Dichloroethane	ND	F1 vs	60.9	48.6	vs	ug/Kg	☼	80	77 - 122
1,2-Dichloropropane	ND	vs	60.9	49.3	vs	ug/Kg	☼	81	75 - 124
1,3-Dichlorobenzene	ND	vs	60.9	47.7	vs	ug/Kg	☼	78	74 - 120
1,4-Dichlorobenzene	ND	vs	60.9	47.5	vs	ug/Kg	☼	78	73 - 120
2-Hexanone	ND	vs	305	188	vs	ug/Kg	☼	62	59 - 130
2-Butanone (MEK)	ND	F1 vs	305	181	F1 vs	ug/Kg	☼	60	70 - 134
4-Methyl-2-pentanone (MIBK)	ND	F1 vs	305	199	vs	ug/Kg	☼	65	65 - 133
Acetone	ND	F1 vs	305	181	F1 vs	ug/Kg	☼	60	61 - 137
Benzene	ND	F1 vs	60.9	45.0	F1 vs	ug/Kg	☼	74	79 - 127
Bromodichloromethane	ND	vs	60.9	54.6	vs	ug/Kg	☼	90	80 - 122
Bromoform	ND	F1 vs	60.9	39.9	F1 vs	ug/Kg	☼	66	68 - 126
Bromomethane	ND	vs	60.9	87.6	vs	ug/Kg	☼	144	37 - 149
Carbon disulfide	ND	F1 vs	60.9	30.9	F1 vs	ug/Kg	☼	51	64 - 131
Carbon tetrachloride	ND	F1 vs	60.9	37.3	F1 vs	ug/Kg	☼	61	75 - 135
Chlorobenzene	ND	F1 vs	60.9	47.3	vs	ug/Kg	☼	78	76 - 124
Dibromochloromethane	ND	F1 vs	60.9	47.2	vs	ug/Kg	☼	78	76 - 125
Chloroethane	ND	* vs	60.9	75.0	vs	ug/Kg	☼	123	69 - 135
Chloroform	ND	F1 vs	60.9	50.6	vs	ug/Kg	☼	83	80 - 120
Chloromethane	ND	vs	60.9	47.6	vs	ug/Kg	☼	78	63 - 127
cis-1,2-Dichloroethene	ND	F1 vs	60.9	49.2	vs	ug/Kg	☼	81	80 - 120
cis-1,3-Dichloropropene	ND	F1 vs	60.9	48.0	F1 vs	ug/Kg	☼	79	80 - 120
Cyclohexane	ND	F1 vs	60.9	24.7	F1 vs	ug/Kg	☼	41	65 - 120
Dichlorodifluoromethane	ND	F1 vs	60.9	25.3	F1 vs	ug/Kg	☼	42	57 - 142

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

Lab Sample ID: 480-121321-4 MS
Matrix: Solid
Analysis Batch: 368496

Client Sample ID: TP-04
Prep Type: Total/NA
Prep Batch: 368516

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene	ND	F1 vs	60.9	45.3	F1 vs	ug/Kg	☼	74	80 - 120
Isopropylbenzene	ND	F1 vs	60.9	44.6	vs	ug/Kg	☼	73	72 - 120
Methyl acetate	ND	F1 vs	305	173	vs	ug/Kg	☼	57	55 - 136
Methyl tert-butyl ether	ND	vs	60.9	47.8	vs	ug/Kg	☼	78	63 - 125
Methylcyclohexane	ND	F1 vs	60.9	22.4	F1 vs	ug/Kg	☼	37	60 - 140
Methylene Chloride	ND	vs	60.9	53.0	vs	ug/Kg	☼	87	61 - 127
Styrene	ND	F1 vs	60.9	47.2	F1 vs	ug/Kg	☼	77	80 - 120
Tetrachloroethene	ND	F1 vs	60.9	35.7	F1 vs	ug/Kg	☼	59	74 - 122
Toluene	ND	F1 vs	60.9	44.6	F1 vs	ug/Kg	☼	73	74 - 128
trans-1,2-Dichloroethene	ND	F1 vs	60.9	43.7	F1 vs	ug/Kg	☼	72	78 - 126
trans-1,3-Dichloropropene	ND	vs	60.9	48.3	vs	ug/Kg	☼	79	73 - 123
Trichloroethene	ND	F1 vs	60.9	43.2	F1 vs	ug/Kg	☼	71	77 - 129
Trichlorofluoromethane	ND	F1 vs	60.9	31.4	F1 vs	ug/Kg	☼	52	65 - 146
Vinyl chloride	ND	F1 vs	60.9	37.1	vs	ug/Kg	☼	61	61 - 133

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*88*		*64 - 126*
Toluene-d8 (Surr)	*99*		*71 - 125*
4-Bromofluorobenzene (Surr)	*93*		*72 - 126*

Lab Sample ID: 480-121321-4 MSD
Matrix: Solid
Analysis Batch: 368496

Client Sample ID: TP-04
Prep Type: Total/NA
Prep Batch: 368516

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	ND	F1 vs	60.8	36.6	F1 vs	ug/Kg	☼	60	77 - 121	8	30
1,1,2,2-Tetrachloroethane	ND	F1 vs	60.8	42.0	F1 vs	ug/Kg	☼	69	80 - 120	9	30
1,1,2-Trichloroethane	ND	F1 vs	60.8	44.1	F1 vs	ug/Kg	☼	73	78 - 122	7	30
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	F1 vs	60.8	22.5	F1 vs	ug/Kg	☼	37	60 - 140	10	30
1,1-Dichloroethane	ND	vs	60.8	44.6	vs	ug/Kg	☼	73	73 - 126	7	30
1,1-Dichloroethene	ND	F1 vs	60.8	32.0	F1 vs	ug/Kg	☼	53	59 - 125	8	30
1,2,4-Trichlorobenzene	ND	F1 vs	60.8	35.7	F1 vs	ug/Kg	☼	59	64 - 120	4	30
1,2-Dibromo-3-Chloropropane	ND	F1 vs	60.8	37.8	F1 vs	ug/Kg	☼	62	63 - 124	3	30
1,2-Dibromoethane	ND	F1 vs	60.8	42.6	F1 vs	ug/Kg	☼	70	78 - 120	6	30
1,2-Dichlorobenzene	ND	F1 vs	60.8	44.8	F1 vs	ug/Kg	☼	74	75 - 120	6	30
1,2-Dichloroethane	ND	F1 vs	60.8	45.7	F1 vs	ug/Kg	☼	75	77 - 122	6	30
1,2-Dichloropropane	ND	vs	60.8	46.2	vs	ug/Kg	☼	76	75 - 124	6	30
1,3-Dichlorobenzene	ND	vs	60.8	45.1	vs	ug/Kg	☼	74	74 - 120	6	30
1,4-Dichlorobenzene	ND	vs	60.8	44.5	vs	ug/Kg	☼	73	73 - 120	6	30
2-Hexanone	ND	vs	304	181	vs	ug/Kg	☼	60	59 - 130	4	30
2-Butanone (MEK)	ND	F1 vs	304	174	F1 vs	ug/Kg	☼	57	70 - 134	4	30
4-Methyl-2-pentanone (MIBK)	ND	F1 vs	304	185	F1 vs	ug/Kg	☼	61	65 - 133	7	30
Acetone	ND	F1 vs	304	170	F1 vs	ug/Kg	☼	56	61 - 137	7	30
Benzene	ND	F1 vs	60.8	42.6	F1 vs	ug/Kg	☼	70	79 - 127	6	30
Bromodichloromethane	ND	vs	60.8	51.5	vs	ug/Kg	☼	85	80 - 122	6	30
Bromoform	ND	F1 vs	60.8	38.9	F1 vs	ug/Kg	☼	64	68 - 126	3	30
Bromomethane	ND	vs	60.8	78.9	vs	ug/Kg	☼	130	37 - 149	11	30

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

Lab Sample ID: 480-121321-4 MSD
Matrix: Solid
Analysis Batch: 368496

Client Sample ID: TP-04
Prep Type: Total/NA
Prep Batch: 368516

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Carbon disulfide	ND	F1 vs	60.8	29.0	F1 vs	ug/Kg	☼	48	64 - 131	7	30
Carbon tetrachloride	ND	F1 vs	60.8	34.4	F1 vs	ug/Kg	☼	57	75 - 135	8	30
Chlorobenzene	ND	F1 vs	60.8	43.9	F1 vs	ug/Kg	☼	72	76 - 124	7	30
Dibromochloromethane	ND	F1 vs	60.8	44.5	F1 vs	ug/Kg	☼	73	76 - 125	6	30
Chloroethane	ND	* vs	60.8	65.7	vs	ug/Kg	☼	108	69 - 135	13	30
Chloroform	ND	F1 vs	60.8	47.0	F1 vs	ug/Kg	☼	77	80 - 120	7	30
Chloromethane	ND	vs	60.8	43.3	vs	ug/Kg	☼	71	63 - 127	10	30
cis-1,2-Dichloroethene	ND	F1 vs	60.8	45.4	F1 vs	ug/Kg	☼	75	80 - 120	8	30
cis-1,3-Dichloropropene	ND	F1 vs	60.8	44.9	F1 vs	ug/Kg	☼	74	80 - 120	7	30
Cyclohexane	ND	F1 vs	60.8	22.4	F1 vs	ug/Kg	☼	37	65 - 120	10	30
Dichlorodifluoromethane	ND	F1 vs	60.8	22.8	F1 vs	ug/Kg	☼	37	57 - 142	11	30
Ethylbenzene	ND	F1 vs	60.8	42.3	F1 vs	ug/Kg	☼	70	80 - 120	7	30
Isopropylbenzene	ND	F1 vs	60.8	40.7	F1 vs	ug/Kg	☼	67	72 - 120	9	30
Methyl acetate	ND	F1 vs	304	164	F1 vs	ug/Kg	☼	54	55 - 136	5	30
Methyl tert-butyl ether	ND	vs	60.8	44.9	vs	ug/Kg	☼	74	63 - 125	6	30
Methylcyclohexane	ND	F1 vs	60.8	20.3	F1 vs	ug/Kg	☼	33	60 - 140	10	30
Methylene Chloride	ND	vs	60.8	49.5	vs	ug/Kg	☼	81	61 - 127	7	30
Styrene	ND	F1 vs	60.8	43.9	F1 vs	ug/Kg	☼	72	80 - 120	7	30
Tetrachloroethene	ND	F1 vs	60.8	32.8	F1 vs	ug/Kg	☼	54	74 - 122	8	30
Toluene	ND	F1 vs	60.8	41.5	F1 vs	ug/Kg	☼	68	74 - 128	7	30
trans-1,2-Dichloroethene	ND	F1 vs	60.8	40.7	F1 vs	ug/Kg	☼	67	78 - 126	7	30
trans-1,3-Dichloropropene	ND	vs	60.8	45.4	vs	ug/Kg	☼	75	73 - 123	6	30
Trichloroethene	ND	F1 vs	60.8	40.1	F1 vs	ug/Kg	☼	66	77 - 129	7	30
Trichlorofluoromethane	ND	F1 vs	60.8	28.4	F1 vs	ug/Kg	☼	47	65 - 146	10	30
Vinyl chloride	ND	F1 vs	60.8	33.7	F1 vs	ug/Kg	☼	55	61 - 133	10	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*87*		*64 - 126*
Toluene-d8 (Surr)	*98*		*71 - 125*
4-Bromofluorobenzene (Surr)	*92*		*72 - 126*

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

Lab Sample ID: MB 480-367823/1-A
Matrix: Solid
Analysis Batch: 368598

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 367823

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		170	25	ug/Kg		07/20/17 07:46	07/25/17 15:23	1
bis (2-chloroisopropyl) ether	ND		170	34	ug/Kg		07/20/17 07:46	07/25/17 15:23	1
2,4,5-Trichlorophenol	ND		170	46	ug/Kg		07/20/17 07:46	07/25/17 15:23	1
2,4,6-Trichlorophenol	ND		170	34	ug/Kg		07/20/17 07:46	07/25/17 15:23	1
2,4-Dichlorophenol	ND		170	18	ug/Kg		07/20/17 07:46	07/25/17 15:23	1
2,4-Dimethylphenol	ND		170	41	ug/Kg		07/20/17 07:46	07/25/17 15:23	1
2,4-Dinitrophenol	ND		1600	780	ug/Kg		07/20/17 07:46	07/25/17 15:23	1
2,4-Dinitrotoluene	ND		170	35	ug/Kg		07/20/17 07:46	07/25/17 15:23	1
2,6-Dinitrotoluene	ND		170	20	ug/Kg		07/20/17 07:46	07/25/17 15:23	1
2-Chloronaphthalene	ND		170	28	ug/Kg		07/20/17 07:46	07/25/17 15:23	1

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

Lab Sample ID: MB 480-367823/1-A
Matrix: Solid
Analysis Batch: 368598

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 367823

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chlorophenol	ND		170	31	ug/Kg		07/20/17 07:46	07/25/17 15:23	1
2-Methylnaphthalene	ND		170	34	ug/Kg		07/20/17 07:46	07/25/17 15:23	1
2-Methylphenol	ND		170	20	ug/Kg		07/20/17 07:46	07/25/17 15:23	1
2-Nitroaniline	ND		330	25	ug/Kg		07/20/17 07:46	07/25/17 15:23	1
2-Nitrophenol	ND		170	48	ug/Kg		07/20/17 07:46	07/25/17 15:23	1
3,3'-Dichlorobenzidine	ND		330	200	ug/Kg		07/20/17 07:46	07/25/17 15:23	1
3-Nitroaniline	ND		330	47	ug/Kg		07/20/17 07:46	07/25/17 15:23	1
4,6-Dinitro-2-methylphenol	ND		330	170	ug/Kg		07/20/17 07:46	07/25/17 15:23	1
4-Bromophenyl phenyl ether	ND		170	24	ug/Kg		07/20/17 07:46	07/25/17 15:23	1
4-Chloro-3-methylphenol	ND		170	42	ug/Kg		07/20/17 07:46	07/25/17 15:23	1
4-Chloroaniline	ND		170	42	ug/Kg		07/20/17 07:46	07/25/17 15:23	1
4-Chlorophenyl phenyl ether	ND		170	21	ug/Kg		07/20/17 07:46	07/25/17 15:23	1
4-Methylphenol	ND		330	20	ug/Kg		07/20/17 07:46	07/25/17 15:23	1
4-Nitroaniline	ND		330	88	ug/Kg		07/20/17 07:46	07/25/17 15:23	1
4-Nitrophenol	ND		330	120	ug/Kg		07/20/17 07:46	07/25/17 15:23	1
Acenaphthene	ND		170	25	ug/Kg		07/20/17 07:46	07/25/17 15:23	1
Acenaphthylene	ND		170	22	ug/Kg		07/20/17 07:46	07/25/17 15:23	1
Acetophenone	ND		170	23	ug/Kg		07/20/17 07:46	07/25/17 15:23	1
Anthracene	ND		170	42	ug/Kg		07/20/17 07:46	07/25/17 15:23	1
Atrazine	ND		170	59	ug/Kg		07/20/17 07:46	07/25/17 15:23	1
Benzaldehyde	ND		170	130	ug/Kg		07/20/17 07:46	07/25/17 15:23	1
Benzo(a)anthracene	ND		170	17	ug/Kg		07/20/17 07:46	07/25/17 15:23	1
Benzo(a)pyrene	ND		170	25	ug/Kg		07/20/17 07:46	07/25/17 15:23	1
Benzo(b)fluoranthene	ND		170	27	ug/Kg		07/20/17 07:46	07/25/17 15:23	1
Benzo(g,h,i)perylene	ND		170	18	ug/Kg		07/20/17 07:46	07/25/17 15:23	1
Benzo(k)fluoranthene	ND		170	22	ug/Kg		07/20/17 07:46	07/25/17 15:23	1
Bis(2-chloroethoxy)methane	ND		170	36	ug/Kg		07/20/17 07:46	07/25/17 15:23	1
Bis(2-chloroethyl)ether	ND		170	22	ug/Kg		07/20/17 07:46	07/25/17 15:23	1
Bis(2-ethylhexyl) phthalate	ND		170	58	ug/Kg		07/20/17 07:46	07/25/17 15:23	1
Butyl benzyl phthalate	ND		170	28	ug/Kg		07/20/17 07:46	07/25/17 15:23	1
Caprolactam	ND		170	51	ug/Kg		07/20/17 07:46	07/25/17 15:23	1
Carbazole	ND		170	20	ug/Kg		07/20/17 07:46	07/25/17 15:23	1
Chrysene	ND		170	38	ug/Kg		07/20/17 07:46	07/25/17 15:23	1
Di-n-butyl phthalate	ND		170	29	ug/Kg		07/20/17 07:46	07/25/17 15:23	1
Di-n-octyl phthalate	ND		170	20	ug/Kg		07/20/17 07:46	07/25/17 15:23	1
Dibenz(a,h)anthracene	ND		170	30	ug/Kg		07/20/17 07:46	07/25/17 15:23	1
Dibenzofuran	ND		170	20	ug/Kg		07/20/17 07:46	07/25/17 15:23	1
Diethyl phthalate	ND		170	22	ug/Kg		07/20/17 07:46	07/25/17 15:23	1
Dimethyl phthalate	ND		170	20	ug/Kg		07/20/17 07:46	07/25/17 15:23	1
Fluoranthene	ND		170	18	ug/Kg		07/20/17 07:46	07/25/17 15:23	1
Fluorene	ND		170	20	ug/Kg		07/20/17 07:46	07/25/17 15:23	1
Hexachlorobenzene	ND		170	23	ug/Kg		07/20/17 07:46	07/25/17 15:23	1
Hexachlorobutadiene	ND		170	25	ug/Kg		07/20/17 07:46	07/25/17 15:23	1
Hexachlorocyclopentadiene	ND		170	23	ug/Kg		07/20/17 07:46	07/25/17 15:23	1
Hexachloroethane	ND		170	22	ug/Kg		07/20/17 07:46	07/25/17 15:23	1
Indeno(1,2,3-cd)pyrene	ND		170	21	ug/Kg		07/20/17 07:46	07/25/17 15:23	1
Isophorone	ND		170	36	ug/Kg		07/20/17 07:46	07/25/17 15:23	1
N-Nitrosodi-n-propylamine	ND		170	29	ug/Kg		07/20/17 07:46	07/25/17 15:23	1

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

Lab Sample ID: MB 480-367823/1-A
Matrix: Solid
Analysis Batch: 368598

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 367823

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodiphenylamine	ND		170	140	ug/Kg		07/20/17 07:46	07/25/17 15:23	1
Naphthalene	ND		170	22	ug/Kg		07/20/17 07:46	07/25/17 15:23	1
Nitrobenzene	ND		170	19	ug/Kg		07/20/17 07:46	07/25/17 15:23	1
Pentachlorophenol	ND		330	170	ug/Kg		07/20/17 07:46	07/25/17 15:23	1
Phenanthrene	ND		170	25	ug/Kg		07/20/17 07:46	07/25/17 15:23	1
Phenol	ND		170	26	ug/Kg		07/20/17 07:46	07/25/17 15:23	1
Pyrene	ND		170	20	ug/Kg		07/20/17 07:46	07/25/17 15:23	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*88*		*54 - 120*	*07/20/17 07:46*	*07/25/17 15:23*	*1*
2-Fluorobiphenyl	*84*		*60 - 120*	*07/20/17 07:46*	*07/25/17 15:23*	*1*
2-Fluorophenol	*75*		*52 - 120*	*07/20/17 07:46*	*07/25/17 15:23*	*1*
Nitrobenzene-d5	*84*		*53 - 120*	*07/20/17 07:46*	*07/25/17 15:23*	*1*
p-Terphenyl-d14	*100*		*65 - 121*	*07/20/17 07:46*	*07/25/17 15:23*	*1*
Phenol-d5	*71*		*54 - 120*	*07/20/17 07:46*	*07/25/17 15:23*	*1*

Lab Sample ID: LCS 480-367823/2-A
Matrix: Solid
Analysis Batch: 368598

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 367823

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Biphenyl	1630	1370		ug/Kg		84	59 - 120
bis (2-chloroisopropyl) ether	1630	784		ug/Kg		48	44 - 120
2,4,5-Trichlorophenol	1630	1420		ug/Kg		87	59 - 126
2,4,6-Trichlorophenol	1630	1460		ug/Kg		90	59 - 123
2,4-Dichlorophenol	1630	1310		ug/Kg		81	61 - 120
2,4-Dimethylphenol	1630	1250		ug/Kg		77	59 - 120
2,4-Dinitrophenol	3260	3720		ug/Kg		114	41 - 146
2,4-Dinitrotoluene	1630	1630		ug/Kg		100	63 - 120
2,6-Dinitrotoluene	1630	1640		ug/Kg		101	66 - 120
2-Chloronaphthalene	1630	1360		ug/Kg		83	57 - 120
2-Chlorophenol	1630	1130		ug/Kg		69	53 - 120
2-Methylnaphthalene	1630	1250		ug/Kg		77	59 - 120
2-Methylphenol	1630	1110		ug/Kg		68	54 - 120
2-Nitroaniline	1630	1430		ug/Kg		87	61 - 120
2-Nitrophenol	1630	1620		ug/Kg		99	56 - 120
3,3'-Dichlorobenzidine	3260	2800		ug/Kg		86	54 - 120
3-Nitroaniline	1630	1390		ug/Kg		85	48 - 120
4,6-Dinitro-2-methylphenol	3260	3720		ug/Kg		114	49 - 122
4-Bromophenyl phenyl ether	1630	1670		ug/Kg		102	58 - 120
4-Chloro-3-methylphenol	1630	1190		ug/Kg		73	61 - 120
4-Chloroaniline	1630	1090		ug/Kg		67	38 - 120
4-Chlorophenyl phenyl ether	1630	1400		ug/Kg		86	63 - 124
4-Methylphenol	1630	1100		ug/Kg		67	55 - 120
4-Nitroaniline	1630	1250		ug/Kg		77	56 - 120
4-Nitrophenol	3260	2490		ug/Kg		76	43 - 147
Acenaphthene	1630	1340		ug/Kg		82	62 - 120
Acenaphthylene	1630	1350		ug/Kg		83	58 - 121

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

Lab Sample ID: LCS 480-367823/2-A
Matrix: Solid
Analysis Batch: 368598

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 367823

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetophenone	1630	1040		ug/Kg		64	54 - 120
Anthracene	1630	1440		ug/Kg		89	62 - 120
Atrazine	3260	2690		ug/Kg		82	60 - 127
Benzaldehyde	3260	2010		ug/Kg		62	10 - 150
Benzo(a)anthracene	1630	1430		ug/Kg		88	65 - 120
Benzo(a)pyrene	1630	1450		ug/Kg		89	64 - 120
Benzo(b)fluoranthene	1630	1480		ug/Kg		91	64 - 120
Benzo(g,h,i)perylene	1630	1690		ug/Kg		104	45 - 145
Benzo(k)fluoranthene	1630	1380		ug/Kg		85	65 - 120
Bis(2-chloroethoxy)methane	1630	1160		ug/Kg		71	55 - 120
Bis(2-chloroethyl)ether	1630	1010		ug/Kg		62	45 - 120
Bis(2-ethylhexyl) phthalate	1630	1540		ug/Kg		95	61 - 133
Butyl benzyl phthalate	1630	1550		ug/Kg		95	61 - 129
Caprolactam	3260	2340		ug/Kg		72	47 - 120
Carbazole	1630	1380		ug/Kg		85	65 - 120
Chrysene	1630	1410		ug/Kg		87	64 - 120
Di-n-butyl phthalate	1630	1380		ug/Kg		85	58 - 130
Di-n-octyl phthalate	1630	1540		ug/Kg		95	57 - 133
Dibenz(a,h)anthracene	1630	1650		ug/Kg		101	54 - 132
Dibenzofuran	1630	1330		ug/Kg		82	63 - 120
Diethyl phthalate	1630	1330		ug/Kg		82	66 - 120
Dimethyl phthalate	1630	1370		ug/Kg		84	65 - 124
Fluoranthene	1630	1350		ug/Kg		83	62 - 120
Fluorene	1630	1320		ug/Kg		81	63 - 120
Hexachlorobenzene	1630	1630		ug/Kg		100	60 - 120
Hexachlorobutadiene	1630	1350		ug/Kg		83	45 - 120
Hexachlorocyclopentadiene	1630	1450		ug/Kg		89	47 - 120
Hexachloroethane	1630	1040		ug/Kg		64	41 - 120
Indeno(1,2,3-cd)pyrene	1630	1640		ug/Kg		101	56 - 134
Isophorone	1630	1130		ug/Kg		69	56 - 120
N-Nitrosodi-n-propylamine	1630	977		ug/Kg		60	52 - 120
N-Nitrosodiphenylamine	1630	1570		ug/Kg		96	51 - 128
Naphthalene	1630	1220		ug/Kg		75	55 - 120
Nitrobenzene	1630	1260		ug/Kg		77	54 - 120
Pentachlorophenol	3260	3000		ug/Kg		92	51 - 120
Phenanthrene	1630	1450		ug/Kg		89	60 - 120
Phenol	1630	1040		ug/Kg		64	53 - 120
Pyrene	1630	1450		ug/Kg		89	61 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol	*107*		*54 - 120*
2-Fluorobiphenyl	*84*		*60 - 120*
2-Fluorophenol	*68*		*52 - 120*
Nitrobenzene-d5	*81*		*53 - 120*
p-Terphenyl-d14	*87*		*65 - 121*
Phenol-d5	*64*		*54 - 120*

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

Lab Sample ID: 480-121321-4 MS
Matrix: Solid
Analysis Batch: 368598

Client Sample ID: TP-04
Prep Type: Total/NA
Prep Batch: 367823

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Biphenyl	ND		1990	1610		ug/Kg	☼	81	58 - 120
bis (2-chloroisopropyl) ether	ND		1990	966		ug/Kg	☼	49	31 - 120
2,4,5-Trichlorophenol	ND		1990	1690		ug/Kg	☼	85	46 - 120
2,4,6-Trichlorophenol	ND		1990	1700		ug/Kg	☼	86	41 - 123
2,4-Dichlorophenol	ND		1990	1520		ug/Kg	☼	77	45 - 120
2,4-Dimethylphenol	ND		1990	1440		ug/Kg	☼	72	52 - 120
2,4-Dinitrophenol	ND		3970	4170		ug/Kg	☼	105	41 - 146
2,4-Dinitrotoluene	ND		1990	1940		ug/Kg	☼	98	63 - 125
2,6-Dinitrotoluene	ND		1990	1920		ug/Kg	☼	97	66 - 120
2-Chloronaphthalene	ND		1990	1610		ug/Kg	☼	81	57 - 120
2-Chlorophenol	ND		1990	1340		ug/Kg	☼	68	43 - 120
2-Methylnaphthalene	ND		1990	1490		ug/Kg	☼	75	55 - 120
2-Methylphenol	ND		1990	1290		ug/Kg	☼	65	48 - 120
2-Nitroaniline	ND		1990	1680		ug/Kg	☼	85	61 - 120
2-Nitrophenol	ND		1990	1950		ug/Kg	☼	98	37 - 120
3,3'-Dichlorobenzidine	ND		3970	3210		ug/Kg	☼	81	37 - 126
3-Nitroaniline	ND		1990	1610		ug/Kg	☼	81	48 - 120
4,6-Dinitro-2-methylphenol	ND		3970	4340		ug/Kg	☼	109	23 - 149
4-Bromophenyl phenyl ether	ND		1990	1930		ug/Kg	☼	97	58 - 120
4-Chloro-3-methylphenol	ND		1990	1370		ug/Kg	☼	69	49 - 125
4-Chloroaniline	ND		1990	1250		ug/Kg	☼	63	38 - 120
4-Chlorophenyl phenyl ether	ND		1990	1630		ug/Kg	☼	82	63 - 124
4-Methylphenol	ND		1990	1270		ug/Kg	☼	64	50 - 120
4-Nitroaniline	ND		1990	1410		ug/Kg	☼	71	47 - 120
4-Nitrophenol	ND		3970	2920		ug/Kg	☼	73	31 - 147
Acenaphthene	ND		1990	1600		ug/Kg	☼	81	60 - 120
Acenaphthylene	ND		1990	1580		ug/Kg	☼	80	58 - 121
Acetophenone	ND		1990	1230		ug/Kg	☼	62	47 - 120
Anthracene	ND		1990	1680		ug/Kg	☼	84	62 - 120
Atrazine	ND		3970	3020		ug/Kg	☼	76	60 - 150
Benzaldehyde	ND		3970	2450		ug/Kg	☼	62	10 - 150
Benzo(a)anthracene	ND		1990	1660		ug/Kg	☼	84	65 - 120
Benzo(a)pyrene	ND		1990	1700		ug/Kg	☼	86	64 - 120
Benzo(b)fluoranthene	ND		1990	1790		ug/Kg	☼	90	64 - 120
Benzo(g,h,i)perylene	ND		1990	1770		ug/Kg	☼	89	45 - 145
Benzo(k)fluoranthene	ND		1990	1690		ug/Kg	☼	85	65 - 120
Bis(2-chloroethoxy)methane	ND		1990	1390		ug/Kg	☼	70	52 - 120
Bis(2-chloroethyl)ether	ND		1990	1240		ug/Kg	☼	62	45 - 120
Bis(2-ethylhexyl) phthalate	ND		1990	1760		ug/Kg	☼	89	61 - 133
Butyl benzyl phthalate	ND		1990	1800		ug/Kg	☼	90	61 - 120
Caprolactam	ND		3970	2670		ug/Kg	☼	67	37 - 133
Carbazole	ND		1990	1600		ug/Kg	☼	80	59 - 120
Chrysene	ND		1990	1660		ug/Kg	☼	84	64 - 120
Di-n-butyl phthalate	ND		1990	1610		ug/Kg	☼	81	58 - 130
Di-n-octyl phthalate	ND		1990	1730		ug/Kg	☼	87	57 - 133
Dibenz(a,h)anthracene	ND		1990	1750		ug/Kg	☼	88	54 - 132
Dibenzofuran	ND		1990	1570		ug/Kg	☼	79	62 - 120
Diethyl phthalate	ND		1990	1520		ug/Kg	☼	77	66 - 120

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

Lab Sample ID: 480-121321-4 MS
Matrix: Solid
Analysis Batch: 368598

Client Sample ID: TP-04
Prep Type: Total/NA
Prep Batch: 367823

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Dimethyl phthalate	ND		1990	1570		ug/Kg	☼	79	65 - 124
Fluoranthene	ND		1990	1600		ug/Kg	☼	80	62 - 120
Fluorene	ND		1990	1550		ug/Kg	☼	78	63 - 120
Hexachlorobenzene	ND		1990	1890		ug/Kg	☼	95	60 - 120
Hexachlorobutadiene	ND		1990	1590		ug/Kg	☼	80	45 - 120
Hexachlorocyclopentadiene	ND		1990	2000		ug/Kg	☼	101	31 - 120
Hexachloroethane	ND		1990	1230		ug/Kg	☼	62	21 - 120
Indeno(1,2,3-cd)pyrene	ND		1990	1740		ug/Kg	☼	88	56 - 134
Isophorone	ND		1990	1320		ug/Kg	☼	66	56 - 120
N-Nitrosodi-n-propylamine	ND		1990	1150		ug/Kg	☼	58	46 - 120
N-Nitrosodiphenylamine	ND		1990	1800		ug/Kg	☼	90	20 - 128
Naphthalene	ND		1990	1450		ug/Kg	☼	73	46 - 120
Nitrobenzene	ND		1990	1550		ug/Kg	☼	78	49 - 120
Pentachlorophenol	ND		3970	3550		ug/Kg	☼	89	25 - 136
Phenanthrene	ND		1990	1720		ug/Kg	☼	87	60 - 122
Phenol	ND		1990	1230		ug/Kg	☼	62	50 - 120
Pyrene	ND		1990	1760		ug/Kg	☼	89	61 - 133

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2,4,6-Tribromophenol	*105*		*54 - 120*
2-Fluorobiphenyl	*83*		*60 - 120*
2-Fluorophenol	*68*		*52 - 120*
Nitrobenzene-d5	*83*		*53 - 120*
p-Terphenyl-d14	*90*		*65 - 121*
Phenol-d5	*64*		*54 - 120*

Lab Sample ID: 480-121321-4 MSD
Matrix: Solid
Analysis Batch: 368598

Client Sample ID: TP-04
Prep Type: Total/NA
Prep Batch: 367823

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Biphenyl	ND		1980	1580		ug/Kg	☼	80	58 - 120	2	20
bis (2-chloroisopropyl) ether	ND		1980	932		ug/Kg	☼	47	31 - 120	4	24
2,4,5-Trichlorophenol	ND		1980	1630		ug/Kg	☼	83	46 - 120	3	18
2,4,6-Trichlorophenol	ND		1980	1710		ug/Kg	☼	86	41 - 123	0	19
2,4-Dichlorophenol	ND		1980	1540		ug/Kg	☼	78	45 - 120	1	19
2,4-Dimethylphenol	ND		1980	1460		ug/Kg	☼	74	52 - 120	1	42
2,4-Dinitrophenol	ND		3960	4110		ug/Kg	☼	104	41 - 146	1	22
2,4-Dinitrotoluene	ND		1980	1950		ug/Kg	☼	98	63 - 125	1	20
2,6-Dinitrotoluene	ND		1980	1940		ug/Kg	☼	98	66 - 120	1	15
2-Chloronaphthalene	ND		1980	1580		ug/Kg	☼	80	57 - 120	2	21
2-Chlorophenol	ND		1980	1330		ug/Kg	☼	67	43 - 120	1	25
2-Methylnaphthalene	ND		1980	1440		ug/Kg	☼	73	55 - 120	3	21
2-Methylphenol	ND		1980	1270		ug/Kg	☼	64	48 - 120	1	27
2-Nitroaniline	ND		1980	1690		ug/Kg	☼	86	61 - 120	1	15
2-Nitrophenol	ND		1980	1970		ug/Kg	☼	100	37 - 120	1	18
3,3'-Dichlorobenzidine	ND		3960	3090		ug/Kg	☼	78	37 - 126	4	25
3-Nitroaniline	ND		1980	1600		ug/Kg	☼	81	48 - 120	1	19

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

Lab Sample ID: 480-121321-4 MSD
Matrix: Solid
Analysis Batch: 368598

Client Sample ID: TP-04
Prep Type: Total/NA
Prep Batch: 367823

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4,6-Dinitro-2-methylphenol	ND		3960	4340		ug/Kg	☼	110	23 - 149	0	15
4-Bromophenyl phenyl ether	ND		1980	1920		ug/Kg	☼	97	58 - 120	1	15
4-Chloro-3-methylphenol	ND		1980	1380		ug/Kg	☼	70	49 - 125	1	27
4-Chloroaniline	ND		1980	1190		ug/Kg	☼	60	38 - 120	4	22
4-Chlorophenyl phenyl ether	ND		1980	1600		ug/Kg	☼	81	63 - 124	2	16
4-Methylphenol	ND		1980	1290		ug/Kg	☼	65	50 - 120	1	24
4-Nitroaniline	ND		1980	1350		ug/Kg	☼	68	47 - 120	4	24
4-Nitrophenol	ND		3960	2890		ug/Kg	☼	73	31 - 147	1	25
Acenaphthene	ND		1980	1530		ug/Kg	☼	77	60 - 120	5	35
Acenaphthylene	ND		1980	1560		ug/Kg	☼	79	58 - 121	2	18
Acetophenone	ND		1980	1220		ug/Kg	☼	62	47 - 120	1	20
Anthracene	ND		1980	1640		ug/Kg	☼	83	62 - 120	2	15
Atrazine	ND		3960	2870		ug/Kg	☼	73	60 - 150	5	20
Benzaldehyde	ND		3960	2360		ug/Kg	☼	60	10 - 150	4	20
Benzo(a)anthracene	ND		1980	1650		ug/Kg	☼	83	65 - 120	1	15
Benzo(a)pyrene	ND		1980	1670		ug/Kg	☼	84	64 - 120	2	15
Benzo(b)fluoranthene	ND		1980	1770		ug/Kg	☼	89	64 - 120	1	15
Benzo(g,h,i)perylene	ND		1980	1800		ug/Kg	☼	91	45 - 145	2	15
Benzo(k)fluoranthene	ND		1980	1680		ug/Kg	☼	85	65 - 120	0	22
Bis(2-chloroethoxy)methane	ND		1980	1370		ug/Kg	☼	69	52 - 120	1	17
Bis(2-chloroethyl)ether	ND		1980	1210		ug/Kg	☼	61	45 - 120	2	21
Bis(2-ethylhexyl) phthalate	ND		1980	1750		ug/Kg	☼	88	61 - 133	1	15
Butyl benzyl phthalate	ND		1980	1890		ug/Kg	☼	96	61 - 120	5	16
Caprolactam	ND		3960	2650		ug/Kg	☼	67	37 - 133	1	20
Carbazole	ND		1980	1510		ug/Kg	☼	76	59 - 120	6	20
Chrysene	ND		1980	1660		ug/Kg	☼	84	64 - 120	0	15
Di-n-butyl phthalate	ND		1980	1570		ug/Kg	☼	79	58 - 130	2	15
Di-n-octyl phthalate	ND		1980	1680		ug/Kg	☼	85	57 - 133	3	16
Dibenz(a,h)anthracene	ND		1980	1780		ug/Kg	☼	90	54 - 132	2	15
Dibenzofuran	ND		1980	1530		ug/Kg	☼	77	62 - 120	3	15
Diethyl phthalate	ND		1980	1500		ug/Kg	☼	76	66 - 120	2	15
Dimethyl phthalate	ND		1980	1560		ug/Kg	☼	79	65 - 124	1	15
Fluoranthene	ND		1980	1510		ug/Kg	☼	76	62 - 120	6	15
Fluorene	ND		1980	1510		ug/Kg	☼	76	63 - 120	2	15
Hexachlorobenzene	ND		1980	1920		ug/Kg	☼	97	60 - 120	1	15
Hexachlorobutadiene	ND		1980	1500		ug/Kg	☼	76	45 - 120	6	44
Hexachlorocyclopentadiene	ND		1980	2000		ug/Kg	☼	101	31 - 120	0	49
Hexachloroethane	ND		1980	1140		ug/Kg	☼	58	21 - 120	7	46
Indeno(1,2,3-cd)pyrene	ND		1980	1770		ug/Kg	☼	89	56 - 134	1	15
Isophorone	ND		1980	1310		ug/Kg	☼	66	56 - 120	1	17
N-Nitrosodi-n-propylamine	ND		1980	1160		ug/Kg	☼	58	46 - 120	0	31
N-Nitrosodiphenylamine	ND		1980	1790		ug/Kg	☼	91	20 - 128	0	15
Naphthalene	ND		1980	1400		ug/Kg	☼	71	46 - 120	4	29
Nitrobenzene	ND		1980	1520		ug/Kg	☼	77	49 - 120	2	24
Pentachlorophenol	ND		3960	3520		ug/Kg	☼	89	25 - 136	1	35
Phenanthrene	ND		1980	1670		ug/Kg	☼	84	60 - 122	3	15
Phenol	ND		1980	1230		ug/Kg	☼	62	50 - 120	0	35
Pyrene	ND		1980	1900		ug/Kg	☼	96	61 - 133	7	35

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

Lab Sample ID: 480-121321-4 MSD
Matrix: Solid
Analysis Batch: 368598

Client Sample ID: TP-04
Prep Type: Total/NA
Prep Batch: 367823

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2,4,6-Tribromophenol	*106*		*54 - 120*
2-Fluorobiphenyl	*84*		*60 - 120*
2-Fluorophenol	*70*		*52 - 120*
Nitrobenzene-d5	*86*		*53 - 120*
p-Terphenyl-d14	*98*		*65 - 121*
Phenol-d5	*66*		*54 - 120*

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 480-368029/1-A
Matrix: Solid
Analysis Batch: 368232

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 368029

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		1.6	0.32	ug/Kg		07/21/17 06:42	07/22/17 11:27	1
4,4'-DDE	ND		1.6	0.34	ug/Kg		07/21/17 06:42	07/22/17 11:27	1
4,4'-DDT	ND		1.6	0.38	ug/Kg		07/21/17 06:42	07/22/17 11:27	1
Aldrin	ND		1.6	0.40	ug/Kg		07/21/17 06:42	07/22/17 11:27	1
alpha-BHC	ND		1.6	0.29	ug/Kg		07/21/17 06:42	07/22/17 11:27	1
alpha-Chlordane	ND		1.6	0.81	ug/Kg		07/21/17 06:42	07/22/17 11:27	1
beta-BHC	ND		1.6	0.29	ug/Kg		07/21/17 06:42	07/22/17 11:27	1
delta-BHC	ND		1.6	0.30	ug/Kg		07/21/17 06:42	07/22/17 11:27	1
Dieldrin	ND		1.6	0.39	ug/Kg		07/21/17 06:42	07/22/17 11:27	1
Endosulfan I	ND		1.6	0.31	ug/Kg		07/21/17 06:42	07/22/17 11:27	1
Endosulfan II	ND		1.6	0.29	ug/Kg		07/21/17 06:42	07/22/17 11:27	1
Endosulfan sulfate	ND		1.6	0.30	ug/Kg		07/21/17 06:42	07/22/17 11:27	1
Endrin	ND		1.6	0.32	ug/Kg		07/21/17 06:42	07/22/17 11:27	1
Endrin aldehyde	ND		1.6	0.41	ug/Kg		07/21/17 06:42	07/22/17 11:27	1
Endrin ketone	ND		1.6	0.40	ug/Kg		07/21/17 06:42	07/22/17 11:27	1
gamma-BHC (Lindane)	ND		1.6	0.30	ug/Kg		07/21/17 06:42	07/22/17 11:27	1
gamma-Chlordane	ND		1.6	0.52	ug/Kg		07/21/17 06:42	07/22/17 11:27	1
Heptachlor	ND		1.6	0.35	ug/Kg		07/21/17 06:42	07/22/17 11:27	1
Heptachlor epoxide	ND		1.6	0.42	ug/Kg		07/21/17 06:42	07/22/17 11:27	1
Methoxychlor	ND		1.6	0.33	ug/Kg		07/21/17 06:42	07/22/17 11:27	1
Toxaphene	ND		16	9.4	ug/Kg		07/21/17 06:42	07/22/17 11:27	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	*96*		*45 - 120*	*07/21/17 06:42*	*07/22/17 11:27*	*1*
DCB Decachlorobiphenyl	*101*		*45 - 120*	*07/21/17 06:42*	*07/22/17 11:27*	*1*
Tetrachloro-m-xylene	*70*		*30 - 124*	*07/21/17 06:42*	*07/22/17 11:27*	*1*
Tetrachloro-m-xylene	*59*		*30 - 124*	*07/21/17 06:42*	*07/22/17 11:27*	*1*

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 480-368029/2-A
Matrix: Solid
Analysis Batch: 368232

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 368029

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
4,4'-DDD			16.3	14.0		ug/Kg		86	56 - 120		
4,4'-DDE			16.3	13.0		ug/Kg		80	44 - 120		
4,4'-DDT			16.3	14.0		ug/Kg		86	38 - 120		
Aldrin			16.3	10.1		ug/Kg		62	38 - 120		
alpha-BHC			16.3	10.1		ug/Kg		62	39 - 120		
alpha-Chlordane			16.3	12.0		ug/Kg		74	47 - 120		
beta-BHC			16.3	10.5		ug/Kg		64	40 - 120		
delta-BHC			16.3	11.2		ug/Kg		69	45 - 120		
Dieldrin			16.3	13.9		ug/Kg		86	58 - 120		
Endosulfan I			16.3	9.78		ug/Kg		60	49 - 120		
Endosulfan II			16.3	10.7		ug/Kg		66	55 - 120		
Endosulfan sulfate			16.3	11.9		ug/Kg		73	49 - 124		
Endrin			16.3	13.2		ug/Kg		81	58 - 120		
Endrin aldehyde			16.3	10.9		ug/Kg		67	37 - 121		
Endrin ketone			16.3	13.3		ug/Kg		82	46 - 123		
gamma-BHC (Lindane)			16.3	11.0		ug/Kg		68	50 - 120		
gamma-Chlordane			16.3	12.0		ug/Kg		74	48 - 120		
Heptachlor			16.3	12.3		ug/Kg		76	50 - 120		
Heptachlor epoxide			16.3	12.7		ug/Kg		78	50 - 120		
Methoxychlor			16.3	18.0		ug/Kg		111	58 - 133		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*92*		*45 - 120*
DCB Decachlorobiphenyl	*100*		*45 - 120*
Tetrachloro-m-xylene	*71*		*30 - 124*
Tetrachloro-m-xylene	*57*		*30 - 124*

Lab Sample ID: 480-121321-4 MS
Matrix: Solid
Analysis Batch: 368232

Client Sample ID: TP-04
Prep Type: Total/NA
Prep Batch: 368029

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
4,4'-DDD	ND		20.3	19.3		ug/Kg	☼	95	37 - 126		
4,4'-DDE	0.65	J	20.3	17.8		ug/Kg	☼	85	34 - 120		
4,4'-DDT	ND		20.3	20.0		ug/Kg	☼	99	43 - 123		
Aldrin	ND		20.3	16.0		ug/Kg	☼	79	37 - 125		
alpha-BHC	ND		20.3	15.0		ug/Kg	☼	74	39 - 120		
alpha-Chlordane	ND		20.3	16.5		ug/Kg	☼	81	35 - 120		
beta-BHC	ND		20.3	15.8		ug/Kg	☼	78	36 - 120		
delta-BHC	0.51	J	20.3	16.4		ug/Kg	☼	78	34 - 120		
Dieldrin	ND		20.3	18.7		ug/Kg	☼	92	45 - 120		
Endosulfan I	ND		20.3	13.5		ug/Kg	☼	67	39 - 120		
Endosulfan II	ND		20.3	15.1		ug/Kg	☼	75	34 - 126		
Endosulfan sulfate	ND		20.3	19.5		ug/Kg	☼	96	27 - 130		
Endrin	ND		20.3	18.1		ug/Kg	☼	89	47 - 121		
Endrin aldehyde	ND		20.3	19.4		ug/Kg	☼	96	33 - 123		
Endrin ketone	ND		20.3	19.8		ug/Kg	☼	98	43 - 126		
gamma-BHC (Lindane)	ND		20.3	16.4		ug/Kg	☼	81	50 - 120		

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 480-121321-4 MS
Matrix: Solid
Analysis Batch: 368232

Client Sample ID: TP-04
Prep Type: Total/NA
Prep Batch: 368029

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
gamma-Chlordane	ND		20.3	17.3		ug/Kg	☼	85	31 - 120		
Heptachlor	ND		20.3	17.5		ug/Kg	☼	86	42 - 120		
Heptachlor epoxide	ND		20.3	18.0		ug/Kg	☼	89	40 - 120		
Methoxychlor	ND	F1	20.3	33.0	F1	ug/Kg	☼	163	44 - 150		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*97*		*45 - 120*
DCB Decachlorobiphenyl	*106*		*45 - 120*
Tetrachloro-m-xylene	*72*		*30 - 124*
Tetrachloro-m-xylene	*73*		*30 - 124*

Lab Sample ID: 480-121321-4 MSD
Matrix: Solid
Analysis Batch: 368232

Client Sample ID: TP-04
Prep Type: Total/NA
Prep Batch: 368029

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4,4'-DDD	ND		20.0	19.7		ug/Kg	☼	98	37 - 126	2	21
4,4'-DDE	0.65	J	20.0	18.1		ug/Kg	☼	87	34 - 120	2	18
4,4'-DDT	ND		20.0	20.3		ug/Kg	☼	102	43 - 123	1	25
Aldrin	ND		20.0	16.3		ug/Kg	☼	82	37 - 125	2	12
alpha-BHC	ND		20.0	15.3		ug/Kg	☼	77	39 - 120	3	15
alpha-Chlordane	ND		20.0	17.2		ug/Kg	☼	86	35 - 120	4	23
beta-BHC	ND		20.0	16.1		ug/Kg	☼	80	36 - 120	2	19
delta-BHC	0.51	J	20.0	16.9		ug/Kg	☼	82	34 - 120	3	14
Dieldrin	ND		20.0	19.0		ug/Kg	☼	95	45 - 120	2	12
Endosulfan I	ND		20.0	13.7		ug/Kg	☼	69	39 - 120	1	18
Endosulfan II	ND		20.0	15.3		ug/Kg	☼	77	34 - 126	1	26
Endosulfan sulfate	ND		20.0	19.7		ug/Kg	☼	99	27 - 130	1	35
Endrin	ND		20.0	18.3		ug/Kg	☼	91	47 - 121	1	20
Endrin aldehyde	ND		20.0	20.0		ug/Kg	☼	100	33 - 123	3	47
Endrin ketone	ND		20.0	19.6		ug/Kg	☼	98	43 - 126	1	37
gamma-BHC (Lindane)	ND		20.0	16.7		ug/Kg	☼	84	50 - 120	2	12
gamma-Chlordane	ND		20.0	16.8		ug/Kg	☼	84	31 - 120	3	15
Heptachlor	ND		20.0	17.7		ug/Kg	☼	89	42 - 120	1	22
Heptachlor epoxide	ND		20.0	18.2		ug/Kg	☼	91	40 - 120	1	15
Methoxychlor	ND	F1	20.0	33.1	F1	ug/Kg	☼	166	44 - 150	0	24

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*100*		*45 - 120*
DCB Decachlorobiphenyl	*112*		*45 - 120*
Tetrachloro-m-xylene	*82*		*30 - 124*
Tetrachloro-m-xylene	*77*		*30 - 124*

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

Lab Sample ID: MB 480-367916/1-A
Matrix: Solid
Analysis Batch: 367887

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 367916

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.17	0.034	mg/Kg		07/20/17 10:58	07/20/17 17:41	1
PCB-1221	ND		0.17	0.034	mg/Kg		07/20/17 10:58	07/20/17 17:41	1
PCB-1232	ND		0.17	0.034	mg/Kg		07/20/17 10:58	07/20/17 17:41	1
PCB-1242	ND		0.17	0.034	mg/Kg		07/20/17 10:58	07/20/17 17:41	1
PCB-1248	ND		0.17	0.034	mg/Kg		07/20/17 10:58	07/20/17 17:41	1
PCB-1254	ND		0.17	0.082	mg/Kg		07/20/17 10:58	07/20/17 17:41	1
PCB-1260	ND		0.17	0.082	mg/Kg		07/20/17 10:58	07/20/17 17:41	1
PCB-1262	ND		0.17	0.082	mg/Kg		07/20/17 10:58	07/20/17 17:41	1
PCB-1268	ND		0.17	0.082	mg/Kg		07/20/17 10:58	07/20/17 17:41	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*139*		*60 - 154*	*07/20/17 10:58*	*07/20/17 17:41*	*1*
Tetrachloro-m-xylene	*147*		*60 - 154*	*07/20/17 10:58*	*07/20/17 17:41*	*1*
DCB Decachlorobiphenyl	*146*		*65 - 174*	*07/20/17 10:58*	*07/20/17 17:41*	*1*
DCB Decachlorobiphenyl	*138*		*65 - 174*	*07/20/17 10:58*	*07/20/17 17:41*	*1*

Lab Sample ID: LCS 480-367916/2-A
Matrix: Solid
Analysis Batch: 367887

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 367916

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			1.73	2.30		mg/Kg		133	51 - 185		
PCB-1260			1.73	2.77		mg/Kg		160	61 - 184		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*154*		*60 - 154*
Tetrachloro-m-xylene	*144*		*60 - 154*
DCB Decachlorobiphenyl	*145*		*65 - 174*
DCB Decachlorobiphenyl	*133*		*65 - 174*

Lab Sample ID: 480-121321-4 MS
Matrix: Solid
Analysis Batch: 367887

Client Sample ID: TP-04
Prep Type: Total/NA
Prep Batch: 367916

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016	ND		2.64	3.72		mg/Kg	☼	141	50 - 177		
PCB-1260	ND		2.64	4.08		mg/Kg	☼	155	33 - 200		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Tetrachloro-m-xylene	*150*		*60 - 154*
Tetrachloro-m-xylene	*142*		*60 - 154*
DCB Decachlorobiphenyl	*137*		*65 - 174*
DCB Decachlorobiphenyl	*131*		*65 - 174*

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

Lab Sample ID: 480-121321-4 MSD
Matrix: Solid
Analysis Batch: 367887

Client Sample ID: TP-04
Prep Type: Total/NA
Prep Batch: 367916

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016	ND		2.14	3.05		mg/Kg	☼	142	50 - 177	20	50
PCB-1260	ND		2.14	3.19		mg/Kg	☼	149	33 - 200	25	50

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*170*	*X*	*60 - 154*
Tetrachloro-m-xylene	*138*		*60 - 154*
DCB Decachlorobiphenyl	*133*		*65 - 174*
DCB Decachlorobiphenyl	*125*		*65 - 174*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-368424/1-A
Matrix: Solid
Analysis Batch: 368738

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 368424

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		9.2	4.0	mg/Kg		07/24/17 17:04	07/25/17 14:59	1
Antimony	ND		13.8	0.37	mg/Kg		07/24/17 17:04	07/25/17 14:59	1
Arsenic	ND		1.8	0.37	mg/Kg		07/24/17 17:04	07/25/17 14:59	1
Barium	ND		0.46	0.10	mg/Kg		07/24/17 17:04	07/25/17 14:59	1
Beryllium	ND		0.18	0.026	mg/Kg		07/24/17 17:04	07/25/17 14:59	1
Cadmium	ND		0.18	0.028	mg/Kg		07/24/17 17:04	07/25/17 14:59	1
Calcium	5.62	J	46.0	3.0	mg/Kg		07/24/17 17:04	07/25/17 14:59	1
Chromium	ND		0.46	0.18	mg/Kg		07/24/17 17:04	07/25/17 14:59	1
Cobalt	ND		0.46	0.046	mg/Kg		07/24/17 17:04	07/25/17 14:59	1
Copper	ND		0.92	0.19	mg/Kg		07/24/17 17:04	07/25/17 14:59	1
Iron	ND		9.2	3.2	mg/Kg		07/24/17 17:04	07/25/17 14:59	1
Lead	ND		0.92	0.22	mg/Kg		07/24/17 17:04	07/25/17 14:59	1
Magnesium	ND		18.4	0.85	mg/Kg		07/24/17 17:04	07/25/17 14:59	1
Manganese	0.0745	J	0.18	0.029	mg/Kg		07/24/17 17:04	07/25/17 14:59	1
Nickel	ND		4.6	0.21	mg/Kg		07/24/17 17:04	07/25/17 14:59	1
Potassium	ND		27.6	18.4	mg/Kg		07/24/17 17:04	07/25/17 14:59	1
Selenium	ND		3.7	0.37	mg/Kg		07/24/17 17:04	07/25/17 14:59	1
Silver	ND		0.55	0.18	mg/Kg		07/24/17 17:04	07/25/17 14:59	1
Sodium	29.78	J	129	12.0	mg/Kg		07/24/17 17:04	07/25/17 14:59	1
Thallium	ND		5.5	0.28	mg/Kg		07/24/17 17:04	07/25/17 14:59	1
Vanadium	ND		0.46	0.10	mg/Kg		07/24/17 17:04	07/25/17 14:59	1
Zinc	ND		1.8	0.59	mg/Kg		07/24/17 17:04	07/25/17 14:59	1

Lab Sample ID: LCSSRM 480-368424/2-A
Matrix: Solid
Analysis Batch: 368738

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 368424

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	8200	9478		mg/Kg		115.6	40.0 - 159.8
Antimony	105	74.75		mg/Kg		71.2	19.6 - 254.3

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

Lab Sample ID: LCSSRM 480-368424/2-A
Matrix: Solid
Analysis Batch: 368738

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 368424

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	221	190.7		mg/Kg		86.3	71.0 - 133.5
Barium	428	360.5		mg/Kg		84.2	74.3 - 125.5
Beryllium	112	95.44		mg/Kg		85.2	75.0 - 125.0
Cadmium	126	109.6		mg/Kg		87.0	73.3 - 126.2
Calcium	6160	5307		mg/Kg		86.2	73.9 - 126.1
Chromium	74.7	73.06		mg/Kg		97.8	68.5 - 131.3
Cobalt	198	208.6		mg/Kg		105.3	74.7 - 125.8
Copper	83.3	71.56		mg/Kg		85.9	73.8 - 130.9
Iron	14600	14020		mg/Kg		96.0	36.1 - 163.7
Lead	76.9	77.58		mg/Kg		100.9	68.8 - 131.3
Magnesium	3180	2820		mg/Kg		88.7	67.0 - 133.3
Manganese	452	396.4		mg/Kg		87.7	76.5 - 123.5
Nickel	178	193.0		mg/Kg		108.4	73.6 - 128.7
Potassium	2820	2779		mg/Kg		98.5	62.1 - 137.9
Selenium	111	95.07		mg/Kg		85.6	65.7 - 134.2
Silver	59.6	53.04		mg/Kg		89.0	66.8 - 133.1
Sodium	643	594.4		mg/Kg		92.4	54.9 - 145.1
Thallium	151	152.7		mg/Kg		101.1	68.2 - 131.1
Vanadium	150	148.4		mg/Kg		98.9	70.7 - 129.3
Zinc	338	307.4		mg/Kg		90.9	71.9 - 127.8

Lab Sample ID: 480-121321-4 MS
Matrix: Solid
Analysis Batch: 368738

Client Sample ID: TP-04
Prep Type: Total/NA
Prep Batch: 368424

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	9820		2390	15390	4	mg/Kg	☼	233	75 - 125
Antimony	ND		47.9	36.12		mg/Kg	☼	75	75 - 125
Arsenic	2.4		47.9	45.47		mg/Kg	☼	90	75 - 125
Barium	43.7		47.9	99.83		mg/Kg	☼	117	75 - 125
Beryllium	0.25		47.9	41.22		mg/Kg	☼	86	75 - 125
Cadmium	0.16	J	47.9	42.91		mg/Kg	☼	89	75 - 125
Calcium	13600	F2 B	2390	25310	4	mg/Kg	☼	491	75 - 125

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

Lab Sample ID: 480-121321-4 MS
Matrix: Solid
Analysis Batch: 368738

Client Sample ID: TP-04
Prep Type: Total/NA
Prep Batch: 368424

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium	11.1		47.9	59.23		mg/Kg	☼	101	75 - 125
Cobalt	2.6		47.9	48.77		mg/Kg	☼	96	75 - 125
Copper	16.1		47.9	53.11		mg/Kg	☼	77	75 - 125
Iron	7460	F1	2390	13180	F1	mg/Kg	☼	239	75 - 125
Lead	12.6		47.9	58.14		mg/Kg	☼	95	75 - 125
Magnesium	5500	F1 F2	2390	12720	F1	mg/Kg	☼	302	75 - 125
Manganese	106	F1 F2 B ^	47.9	231.8	F1 ^	mg/Kg	☼	262	75 - 125
Nickel	9.7		47.9	55.42		mg/Kg	☼	96	75 - 125
Potassium	1220	F1	2390	4782	F1	mg/Kg	☼	149	75 - 125
Selenium	ND		47.9	42.24		mg/Kg	☼	88	75 - 125
Silver	ND		12.0	11.00		mg/Kg	☼	92	75 - 125
Sodium	352	B	2400	2506		mg/Kg	☼	90	75 - 125
Thallium	ND		47.9	45.83		mg/Kg	☼	96	75 - 125
Vanadium	18.3		47.9	72.96		mg/Kg	☼	114	75 - 125
Zinc	50.5	F1	47.9	87.61		mg/Kg	☼	78	75 - 125

Lab Sample ID: 480-121321-4 MSD
Matrix: Solid
Analysis Batch: 368738

Client Sample ID: TP-04
Prep Type: Total/NA
Prep Batch: 368424

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum	9820		2330	13070	4	mg/Kg	☼	139	75 - 125	16	20
Antimony	ND		46.6	37.42		mg/Kg	☼	80	75 - 125	4	20
Arsenic	2.4		46.6	46.95		mg/Kg	☼	96	75 - 125	3	20
Barium	43.7		46.6	90.68		mg/Kg	☼	101	75 - 125	10	20
Beryllium	0.25		46.6	40.95		mg/Kg	☼	87	75 - 125	1	20
Cadmium	0.16	J	46.6	43.14		mg/Kg	☼	92	75 - 125	1	20
Calcium	13600	F2 B	2330	38590	4 F2	mg/Kg	☼	1075	75 - 125	42	20
Chromium	11.1		46.6	58.21		mg/Kg	☼	101	75 - 125	2	20
Cobalt	2.6		46.6	51.01		mg/Kg	☼	104	75 - 125	4	20
Copper	16.1		46.6	51.32		mg/Kg	☼	76	75 - 125	3	20
Iron	7460	F1	2330	13920	F1	mg/Kg	☼	278	75 - 125	5	20
Lead	12.6		46.6	56.60		mg/Kg	☼	94	75 - 125	3	20
Magnesium	5500	F1 F2	2330	16140	F1 F2	mg/Kg	☼	457	75 - 125	24	20
Manganese	106	F1 F2 B ^	46.6	406.3	F1 F2 ^	mg/Kg	☼	644	75 - 125	55	20
Nickel	9.7		46.6	56.80		mg/Kg	☼	101	75 - 125	2	20
Potassium	1220	F1	2330	4704	F1	mg/Kg	☼	149	75 - 125	2	20
Selenium	ND		46.6	42.48		mg/Kg	☼	91	75 - 125	1	20
Silver	ND		11.6	11.10		mg/Kg	☼	95	75 - 125	1	20
Sodium	352	B	2330	2530		mg/Kg	☼	93	75 - 125	1	20
Thallium	ND		46.6	46.90		mg/Kg	☼	101	75 - 125	2	20
Vanadium	18.3		46.6	73.20		mg/Kg	☼	118	75 - 125	0	20
Zinc	50.5	F1	46.6	83.52	F1	mg/Kg	☼	71	75 - 125	5	20

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 480-368382/1-A
Matrix: Solid
Analysis Batch: 368435

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 368382

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.020	0.0079	mg/Kg		07/24/17 12:35	07/24/17 14:47	1

Lab Sample ID: LCDSRM 480-368382/3-A ^10
Matrix: Solid
Analysis Batch: 368435

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 368382

Analyte			Spike Added	LCDSRM Result	LCDSRM Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury			12.6	11.43		mg/Kg		90.7	44.4 - 128.6	1	20

Lab Sample ID: LCSSRM 480-368382/2-A ^10
Matrix: Solid
Analysis Batch: 368435

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 368382

Analyte			Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury			12.6	11.60		mg/Kg		92.1	44.4 - 128.6		

Lab Sample ID: 480-121321-4 MS
Matrix: Solid
Analysis Batch: 368435

Client Sample ID: TP-04
Prep Type: Total/NA
Prep Batch: 368382

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury	0.023	J	0.414	0.449		mg/Kg	☼	103	80 - 120		

Lab Sample ID: 480-121321-4 MSD
Matrix: Solid
Analysis Batch: 368435

Client Sample ID: TP-04
Prep Type: Total/NA
Prep Batch: 368382

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.023	J	0.402	0.422		mg/Kg	☼	99	80 - 120	6	20

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
vs	Reported analyte concentrations are below 200 ug/kg and may be biased low due to the sample not being collected according to 5035A-L low-level specifications.
*	LCS or LCSD is outside acceptance limits.
F1	MS and/or MSD Recovery is outside acceptance limits.
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

Qualifier	Qualifier Description
X	Surrogate is outside control limits

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits
F1	MS and/or MSD Recovery is outside acceptance limits.

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F2	MS/MSD RPD exceeds control limits
F1	MS and/or MSD Recovery is outside acceptance limits.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
W	PS: Post-digestion spike was outside control limits
V	Serial Dilution exceeds the control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

GC/MS VOA

Analysis Batch: 368496

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-121321-1	TP-01	Total/NA	Solid	8260C	368516
480-121321-2	TP-03	Total/NA	Solid	8260C	368516
480-121321-3	TP-18	Total/NA	Solid	8260C	368516
480-121321-4	TP-04	Total/NA	Solid	8260C	368516
480-121321-5	TP-05	Total/NA	Solid	8260C	368516
480-121321-6	DUP	Total/NA	Solid	8260C	368516
MB 480-368516/2-A	Method Blank	Total/NA	Solid	8260C	368516
LCS 480-368516/1-A	Lab Control Sample	Total/NA	Solid	8260C	368516
480-121321-4 MS	TP-04	Total/NA	Solid	8260C	368516
480-121321-4 MSD	TP-04	Total/NA	Solid	8260C	368516

Prep Batch: 368516

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-121321-1	TP-01	Total/NA	Solid	5035A_L	
480-121321-2	TP-03	Total/NA	Solid	5035A_L	
480-121321-3	TP-18	Total/NA	Solid	5035A_L	
480-121321-4	TP-04	Total/NA	Solid	5035A_L	
480-121321-5	TP-05	Total/NA	Solid	5035A_L	
480-121321-6	DUP	Total/NA	Solid	5035A_L	
MB 480-368516/2-A	Method Blank	Total/NA	Solid	5035A_L	
LCS 480-368516/1-A	Lab Control Sample	Total/NA	Solid	5035A_L	
480-121321-4 MS	TP-04	Total/NA	Solid	5035A_L	
480-121321-4 MSD	TP-04	Total/NA	Solid	5035A_L	

GC/MS Semi VOA

Prep Batch: 367823

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-121321-1	TP-01	Total/NA	Solid	3550C	
480-121321-2	TP-03	Total/NA	Solid	3550C	
480-121321-3	TP-18	Total/NA	Solid	3550C	
480-121321-4	TP-04	Total/NA	Solid	3550C	
480-121321-5	TP-05	Total/NA	Solid	3550C	
480-121321-6	DUP	Total/NA	Solid	3550C	
MB 480-367823/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-367823/2-A	Lab Control Sample	Total/NA	Solid	3550C	
480-121321-4 MS	TP-04	Total/NA	Solid	3550C	
480-121321-4 MSD	TP-04	Total/NA	Solid	3550C	

Analysis Batch: 368598

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-121321-1	TP-01	Total/NA	Solid	8270D	367823
480-121321-2	TP-03	Total/NA	Solid	8270D	367823
480-121321-4	TP-04	Total/NA	Solid	8270D	367823
480-121321-5	TP-05	Total/NA	Solid	8270D	367823
480-121321-6	DUP	Total/NA	Solid	8270D	367823
MB 480-367823/1-A	Method Blank	Total/NA	Solid	8270D	367823
LCS 480-367823/2-A	Lab Control Sample	Total/NA	Solid	8270D	367823
480-121321-4 MS	TP-04	Total/NA	Solid	8270D	367823
480-121321-4 MSD	TP-04	Total/NA	Solid	8270D	367823

GC/MS Semi VOA (Continued)

Analysis Batch: 368904

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-121321-3	TP-18	Total/NA	Solid	8270D	367823

GC Semi VOA

Analysis Batch: 367887

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-121321-1	TP-01	Total/NA	Solid	8082A	367916
480-121321-2	TP-03	Total/NA	Solid	8082A	367916
480-121321-3	TP-18	Total/NA	Solid	8082A	367916
480-121321-4	TP-04	Total/NA	Solid	8082A	367916
480-121321-5	TP-05	Total/NA	Solid	8082A	367916
480-121321-6	DUP	Total/NA	Solid	8082A	367916
MB 480-367916/1-A	Method Blank	Total/NA	Solid	8082A	367916
LCS 480-367916/2-A	Lab Control Sample	Total/NA	Solid	8082A	367916
480-121321-4 MS	TP-04	Total/NA	Solid	8082A	367916
480-121321-4 MSD	TP-04	Total/NA	Solid	8082A	367916

Prep Batch: 367916

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-121321-1	TP-01	Total/NA	Solid	3550C	
480-121321-2	TP-03	Total/NA	Solid	3550C	
480-121321-3	TP-18	Total/NA	Solid	3550C	
480-121321-4	TP-04	Total/NA	Solid	3550C	
480-121321-5	TP-05	Total/NA	Solid	3550C	
480-121321-6	DUP	Total/NA	Solid	3550C	
MB 480-367916/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-367916/2-A	Lab Control Sample	Total/NA	Solid	3550C	
480-121321-4 MS	TP-04	Total/NA	Solid	3550C	
480-121321-4 MSD	TP-04	Total/NA	Solid	3550C	

Prep Batch: 368029

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-121321-1	TP-01	Total/NA	Solid	3550C	
480-121321-2	TP-03	Total/NA	Solid	3550C	
480-121321-3	TP-18	Total/NA	Solid	3550C	
480-121321-4	TP-04	Total/NA	Solid	3550C	
480-121321-5	TP-05	Total/NA	Solid	3550C	
480-121321-6	DUP	Total/NA	Solid	3550C	
MB 480-368029/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-368029/2-A	Lab Control Sample	Total/NA	Solid	3550C	
480-121321-4 MS	TP-04	Total/NA	Solid	3550C	
480-121321-4 MSD	TP-04	Total/NA	Solid	3550C	

Analysis Batch: 368232

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-121321-1	TP-01	Total/NA	Solid	8081B	368029
480-121321-2	TP-03	Total/NA	Solid	8081B	368029
480-121321-3	TP-18	Total/NA	Solid	8081B	368029
480-121321-4	TP-04	Total/NA	Solid	8081B	368029
480-121321-5	TP-05	Total/NA	Solid	8081B	368029

GC Semi VOA (Continued)

Analysis Batch: 368232 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-121321-6	DUP	Total/NA	Solid	8081B	368029
MB 480-368029/1-A	Method Blank	Total/NA	Solid	8081B	368029
LCS 480-368029/2-A	Lab Control Sample	Total/NA	Solid	8081B	368029
480-121321-4 MS	TP-04	Total/NA	Solid	8081B	368029
480-121321-4 MSD	TP-04	Total/NA	Solid	8081B	368029

Metals

Prep Batch: 368382

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-121321-1	TP-01	Total/NA	Solid	7471B	
480-121321-2	TP-03	Total/NA	Solid	7471B	
480-121321-3	TP-18	Total/NA	Solid	7471B	
480-121321-4	TP-04	Total/NA	Solid	7471B	
480-121321-5	TP-05	Total/NA	Solid	7471B	
480-121321-6	DUP	Total/NA	Solid	7471B	
MB 480-368382/1-A	Method Blank	Total/NA	Solid	7471B	
LCDSRM 480-368382/3-A ^1	Lab Control Sample Dup	Total/NA	Solid	7471B	
LCSSRM 480-368382/2-A ^1	Lab Control Sample	Total/NA	Solid	7471B	
480-121321-4 MS	TP-04	Total/NA	Solid	7471B	
480-121321-4 MSD	TP-04	Total/NA	Solid	7471B	

Prep Batch: 368424

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-121321-1	TP-01	Total/NA	Solid	3050B	
480-121321-2	TP-03	Total/NA	Solid	3050B	
480-121321-3	TP-18	Total/NA	Solid	3050B	
480-121321-4	TP-04	Total/NA	Solid	3050B	
480-121321-5	TP-05	Total/NA	Solid	3050B	
480-121321-6	DUP	Total/NA	Solid	3050B	
MB 480-368424/1-A	Method Blank	Total/NA	Solid	3050B	
LCSSRM 480-368424/2-A	Lab Control Sample	Total/NA	Solid	3050B	
480-121321-4 MS	TP-04	Total/NA	Solid	3050B	
480-121321-4 MSD	TP-04	Total/NA	Solid	3050B	

Analysis Batch: 368435

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-121321-1	TP-01	Total/NA	Solid	7471B	368382
480-121321-2	TP-03	Total/NA	Solid	7471B	368382
480-121321-3	TP-18	Total/NA	Solid	7471B	368382
480-121321-4	TP-04	Total/NA	Solid	7471B	368382
480-121321-5	TP-05	Total/NA	Solid	7471B	368382
480-121321-6	DUP	Total/NA	Solid	7471B	368382
MB 480-368382/1-A	Method Blank	Total/NA	Solid	7471B	368382
LCDSRM 480-368382/3-A ^1	Lab Control Sample Dup	Total/NA	Solid	7471B	368382
LCSSRM 480-368382/2-A ^1	Lab Control Sample	Total/NA	Solid	7471B	368382
480-121321-4 MS	TP-04	Total/NA	Solid	7471B	368382
480-121321-4 MSD	TP-04	Total/NA	Solid	7471B	368382

Metals (Continued)

Analysis Batch: 368738

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-121321-1	TP-01	Total/NA	Solid	6010C	368424
480-121321-2	TP-03	Total/NA	Solid	6010C	368424
480-121321-3	TP-18	Total/NA	Solid	6010C	368424
480-121321-4	TP-04	Total/NA	Solid	6010C	368424
480-121321-5	TP-05	Total/NA	Solid	6010C	368424
480-121321-6	DUP	Total/NA	Solid	6010C	368424
MB 480-368424/1-A	Method Blank	Total/NA	Solid	6010C	368424
LCSSRM 480-368424/2-A	Lab Control Sample	Total/NA	Solid	6010C	368424
480-121321-4 MS	TP-04	Total/NA	Solid	6010C	368424
480-121321-4 MSD	TP-04	Total/NA	Solid	6010C	368424

General Chemistry

Analysis Batch: 367803

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-121321-1	TP-01	Total/NA	Solid	Moisture	
480-121321-2	TP-03	Total/NA	Solid	Moisture	
480-121321-3	TP-18	Total/NA	Solid	Moisture	
480-121321-4	TP-04	Total/NA	Solid	Moisture	
480-121321-5	TP-05	Total/NA	Solid	Moisture	
480-121321-6	DUP	Total/NA	Solid	Moisture	
480-121321-4 MS	TP-04	Total/NA	Solid	Moisture	
480-121321-4 MSD	TP-04	Total/NA	Solid	Moisture	

Client Sample ID: TP-01
Date Collected: 07/19/17 09:00
Date Received: 07/19/17 17:00

Lab Sample ID: 480-121321-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	367803	07/20/17 02:46	CSW	TAL BUF

Client Sample ID: TP-01
Date Collected: 07/19/17 09:00
Date Received: 07/19/17 17:00

Lab Sample ID: 480-121321-1
Matrix: Solid
Percent Solids: 79.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			368516	07/25/17 08:33	AMM	TAL BUF
Total/NA	Analysis	8260C		1	368496	07/25/17 13:27	AMM	TAL BUF
Total/NA	Prep	3550C			367823	07/20/17 07:46	BEK	TAL BUF
Total/NA	Analysis	8270D		10	368598	07/25/17 17:35	DMR	TAL BUF
Total/NA	Prep	3550C			368029	07/21/17 06:42	CAM	TAL BUF
Total/NA	Analysis	8081B		1	368232	07/22/17 13:45	MAN	TAL BUF
Total/NA	Prep	3550C			367916	07/20/17 10:58	BEK	TAL BUF
Total/NA	Analysis	8082A		1	367887	07/20/17 18:58	JMO	TAL BUF
Total/NA	Prep	3050B			368424	07/24/17 17:04	EMB	TAL BUF
Total/NA	Analysis	6010C		1	368738	07/25/17 15:09	LMH	TAL BUF
Total/NA	Prep	7471B			368382	07/24/17 12:35	EMB	TAL BUF
Total/NA	Analysis	7471B		1	368435	07/24/17 14:52	BMB	TAL BUF

Client Sample ID: TP-03
Date Collected: 07/19/17 10:00
Date Received: 07/19/17 17:00

Lab Sample ID: 480-121321-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	367803	07/20/17 02:46	CSW	TAL BUF

Client Sample ID: TP-03
Date Collected: 07/19/17 10:00
Date Received: 07/19/17 17:00

Lab Sample ID: 480-121321-2
Matrix: Solid
Percent Solids: 82.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			368516	07/25/17 08:33	AMM	TAL BUF
Total/NA	Analysis	8260C		1	368496	07/25/17 13:52	AMM	TAL BUF
Total/NA	Prep	3550C			367823	07/20/17 07:46	BEK	TAL BUF
Total/NA	Analysis	8270D		1	368598	07/25/17 18:01	DMR	TAL BUF
Total/NA	Prep	3550C			368029	07/21/17 06:42	CAM	TAL BUF
Total/NA	Analysis	8081B		1	368232	07/22/17 14:04	MAN	TAL BUF
Total/NA	Prep	3550C			367916	07/20/17 10:58	BEK	TAL BUF
Total/NA	Analysis	8082A		1	367887	07/20/17 19:13	JMO	TAL BUF
Total/NA	Prep	3050B			368424	07/24/17 17:04	EMB	TAL BUF
Total/NA	Analysis	6010C		1	368738	07/25/17 15:13	LMH	TAL BUF
Total/NA	Prep	7471B			368382	07/24/17 12:35	EMB	TAL BUF

Client Sample ID: TP-03
Date Collected: 07/19/17 10:00
Date Received: 07/19/17 17:00

Lab Sample ID: 480-121321-2
Matrix: Solid
Percent Solids: 82.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	7471B		1	368435	07/24/17 14:53	BMB	TAL BUF

Client Sample ID: TP-18
Date Collected: 07/19/17 11:00
Date Received: 07/19/17 17:00

Lab Sample ID: 480-121321-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	367803	07/20/17 02:46	CSW	TAL BUF

Client Sample ID: TP-18
Date Collected: 07/19/17 11:00
Date Received: 07/19/17 17:00

Lab Sample ID: 480-121321-3
Matrix: Solid
Percent Solids: 78.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			368516	07/25/17 08:33	AMM	TAL BUF
Total/NA	Analysis	8260C		1	368496	07/25/17 14:18	AMM	TAL BUF
Total/NA	Prep	3550C			367823	07/20/17 07:46	BEK	TAL BUF
Total/NA	Analysis	8270D		10	368904	07/26/17 23:46	DMR	TAL BUF
Total/NA	Prep	3550C			368029	07/21/17 06:42	CAM	TAL BUF
Total/NA	Analysis	8081B		20	368232	07/22/17 14:24	MAN	TAL BUF
Total/NA	Prep	3550C			367916	07/20/17 10:58	BEK	TAL BUF
Total/NA	Analysis	8082A		1	367887	07/20/17 19:29	JMO	TAL BUF
Total/NA	Prep	3050B			368424	07/24/17 17:04	EMB	TAL BUF
Total/NA	Analysis	6010C		1	368738	07/25/17 15:16	LMH	TAL BUF
Total/NA	Prep	7471B			368382	07/24/17 12:35	EMB	TAL BUF
Total/NA	Analysis	7471B		1	368435	07/24/17 14:54	BMB	TAL BUF

Client Sample ID: TP-04
Date Collected: 07/19/17 13:00
Date Received: 07/19/17 17:00

Lab Sample ID: 480-121321-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	367803	07/20/17 02:46	CSW	TAL BUF

Client Sample ID: TP-04
Date Collected: 07/19/17 13:00
Date Received: 07/19/17 17:00

Lab Sample ID: 480-121321-4
Matrix: Solid
Percent Solids: 82.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			368516	07/25/17 08:33	AMM	TAL BUF
Total/NA	Analysis	8260C		1	368496	07/25/17 14:43	AMM	TAL BUF
Total/NA	Prep	3550C			367823	07/20/17 07:46	BEK	TAL BUF
Total/NA	Analysis	8270D		1	368598	07/25/17 17:08	DMR	TAL BUF

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			368029	07/21/17 06:42	CAM	TAL BUF
Total/NA	Analysis	8081B		1	368232	07/22/17 13:25	MAN	TAL BUF
Total/NA	Prep	3550C			367916	07/20/17 10:58	BEK	TAL BUF
Total/NA	Analysis	8082A		1	367887	07/20/17 18:43	JMO	TAL BUF
Total/NA	Prep	3050B			368424	07/24/17 17:04	EMB	TAL BUF
Total/NA	Analysis	6010C		1	368738	07/25/17 15:19	LMH	TAL BUF
Total/NA	Prep	7471B			368382	07/24/17 12:35	EMB	TAL BUF
Total/NA	Analysis	7471B		1	368435	07/24/17 14:56	BMB	TAL BUF

Client Sample ID: TP-05 **Lab Sample ID: 480-121321-5**
Date Collected: 07/19/17 14:00 **Matrix: Solid**
Date Received: 07/19/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	367803	07/20/17 02:46	CSW	TAL BUF

Client Sample ID: TP-05 **Lab Sample ID: 480-121321-5**
Date Collected: 07/19/17 14:00 **Matrix: Solid**
Date Received: 07/19/17 17:00 **Percent Solids: 79.0**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			368516	07/25/17 08:33	AMM	TAL BUF
Total/NA	Analysis	8260C		1	368496	07/25/17 15:09	AMM	TAL BUF
Total/NA	Prep	3550C			367823	07/20/17 07:46	BEK	TAL BUF
Total/NA	Analysis	8270D		1	368598	07/25/17 19:46	DMR	TAL BUF
Total/NA	Prep	3550C			368029	07/21/17 06:42	CAM	TAL BUF
Total/NA	Analysis	8081B		1	368232	07/22/17 14:44	MAN	TAL BUF
Total/NA	Prep	3550C			367916	07/20/17 10:58	BEK	TAL BUF
Total/NA	Analysis	8082A		1	367887	07/20/17 19:44	JMO	TAL BUF
Total/NA	Prep	3050B			368424	07/24/17 17:04	EMB	TAL BUF
Total/NA	Analysis	6010C		1	368738	07/25/17 15:46	LMH	TAL BUF
Total/NA	Prep	7471B			368382	07/24/17 12:35	EMB	TAL BUF
Total/NA	Analysis	7471B		1	368435	07/24/17 15:06	BMB	TAL BUF

Client Sample ID: DUP **Lab Sample ID: 480-121321-6**
Date Collected: 07/19/17 00:00 **Matrix: Solid**
Date Received: 07/19/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	367803	07/20/17 02:46	CSW	TAL BUF

Client Sample ID: DUP **Lab Sample ID: 480-121321-6**
Date Collected: 07/19/17 00:00 **Matrix: Solid**
Date Received: 07/19/17 17:00 **Percent Solids: 82.4**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			368516	07/25/17 08:33	AMM	TAL BUF

Lab Chronicle

Client: New York State D.E.C.
Project/Site: Nash Rd. Wheatfield #932054

TestAmerica Job ID: 480-121321-1

Client Sample ID: DUP
Date Collected: 07/19/17 00:00
Date Received: 07/19/17 17:00

Lab Sample ID: 480-121321-6
Matrix: Solid
Percent Solids: 82.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	368496	07/25/17 15:34	AMM	TAL BUF
Total/NA	Prep	3550C			367823	07/20/17 07:46	BEK	TAL BUF
Total/NA	Analysis	8270D		1	368598	07/25/17 20:12	DMR	TAL BUF
Total/NA	Prep	3550C			368029	07/21/17 06:42	CAM	TAL BUF
Total/NA	Analysis	8081B		1	368232	07/22/17 15:03	MAN	TAL BUF
Total/NA	Prep	3550C			367916	07/20/17 10:58	BEK	TAL BUF
Total/NA	Analysis	8082A		1	367887	07/20/17 19:59	JMO	TAL BUF
Total/NA	Prep	3050B			368424	07/24/17 17:04	EMB	TAL BUF
Total/NA	Analysis	6010C		1	368738	07/25/17 15:50	LMH	TAL BUF
Total/NA	Prep	7471B			368382	07/24/17 12:35	EMB	TAL BUF
Total/NA	Analysis	7471B		1	368435	07/24/17 15:07	BMB	TAL BUF

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: New York State D.E.C. TestAmerica Job ID: 480-121321-1
Project/Site: Nash Rd. Wheatfield #932054

Laboratory: TestAmerica Buffalo

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

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	10026	03-31-18

The following analytes are included in this report, but accreditation/certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Method 8260C

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

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1

SDG No.:

Matrix: Solid Level: Low

GC Column (1): ZB-624 (30) ID: 0.25(mm)

Client Sample ID	Lab Sample ID	DCA #	TOL #	BFB #
TP-01	480-121321-1	109	96	95
TP-03	480-121321-2	107	96	95
TP-18	480-121321-3	102	100	90
TP-04	480-121321-4	102	99	93
TP-05	480-121321-5	102	96	93
DUP	480-121321-6	102	98	92
	MB 480-368516/2-A	104	99	98
	LCS 480-368516/1-A	107	100	98
TP-04 MS	480-121321-4 MS	88	99	93
TP-04 MSD	480-121321-4 MSD	87	98	92

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

Column to be used to flag recovery values

FORM II 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: F6441.D

Lab ID: LCS 480-368516/1-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	50.0	45.4	91	77-121	
1,1,2,2-Tetrachloroethane	50.0	53.2	106	80-120	
1,1,2-Trichloroethane	50.0	49.1	98	78-122	
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	38.7	77	60-140	
1,1-Dichloroethane	50.0	46.4	93	73-126	
1,1-Dichloroethene	50.0	41.1	82	59-125	
1,2,4-Trichlorobenzene	50.0	45.8	92	64-120	
1,2-Dibromo-3-Chloropropane	50.0	59.9	120	63-124	
1,2-Dibromoethane	50.0	51.2	102	78-120	
1,2-Dichlorobenzene	50.0	47.0	94	75-120	
1,2-Dichloroethane	50.0	49.9	100	77-122	
1,2-Dichloropropane	50.0	47.2	94	75-124	
1,3-Dichlorobenzene	50.0	46.6	93	74-120	
1,4-Dichlorobenzene	50.0	46.5	93	73-120	
2-Hexanone	250	287	115	59-130	
2-Butanone (MEK)	250	297	119	70-134	
4-Methyl-2-pentanone (MIBK)	250	276	110	65-133	
Acetone	250	296	118	61-137	
Benzene	50.0	45.5	91	79-127	
Bromodichloromethane	50.0	53.9	108	80-122	
Bromoform	50.0	52.2	104	68-126	
Bromomethane	50.0	69.5	139	37-149	
Carbon disulfide	50.0	39.0	78	64-131	
Carbon tetrachloride	50.0	49.2	98	75-135	
Chlorobenzene	50.0	45.3	91	76-124	
Dibromochloromethane	50.0	50.1	100	76-125	
Chloroethane	50.0	69.9	140	69-135	*
Chloroform	50.0	46.9	94	80-120	
Chloromethane	50.0	48.5	97	63-127	
cis-1,2-Dichloroethene	50.0	47.5	95	81-120	
cis-1,3-Dichloropropene	50.0	50.3	101	80-120	
Cyclohexane	50.0	39.3	79	65-120	
Dichlorodifluoromethane	50.0	42.9	86	57-142	
Ethylbenzene	50.0	45.3	91	80-120	
Isopropylbenzene	50.0	44.1	88	72-120	
Methyl acetate	250	282	113	55-136	
Methyl tert-butyl ether	50.0	51.8	104	63-125	
Methylcyclohexane	50.0	38.0	76	60-140	
Methylene Chloride	50.0	49.4	99	61-127	
Styrene	50.0	45.8	92	80-120	
Tetrachloroethene	50.0	41.6	83	74-122	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: F6441.D

Lab ID: LCS 480-368516/1-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Toluene	50.0	44.3	89	74-128	
trans-1,2-Dichloroethene	50.0	44.4	89	78-126	
trans-1,3-Dichloropropene	50.0	52.7	105	73-123	
Trichloroethene	50.0	44.2	88	77-129	
Trichlorofluoromethane	50.0	43.6	87	65-146	
Vinyl chloride	50.0	45.4	91	61-133	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: F6462.D

Lab ID: 480-121321-4 MS Client ID: TP-04 MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	60.9	ND	39.7	65	77-121	F1 vs
1,1,2,2-Tetrachloroethane	60.9	ND	45.9	75	80-120	F1 vs
1,1,2-Trichloroethane	60.9	ND	47.1	77	78-122	F1 vs
1,1,2-Trichloro-1,2,2-trifluoroethane	60.9	ND	24.9	41	60-140	F1 vs
1,1-Dichloroethane	60.9	ND	47.7	78	73-126	vs
1,1-Dichloroethene	60.9	ND	34.6	57	59-125	F1 vs
1,2,4-Trichlorobenzene	60.9	ND	34.4	56	64-120	F1 vs
1,2-Dibromo-3-Chloropropane	60.9	ND	39.0	64	63-124	vs
1,2-Dibromoethane	60.9	ND	45.4	75	78-120	F1 vs
1,2-Dichlorobenzene	60.9	ND	47.7	78	75-120	vs
1,2-Dichloroethane	60.9	ND	48.6	80	77-122	vs
1,2-Dichloropropane	60.9	ND	49.3	81	75-124	vs
1,3-Dichlorobenzene	60.9	ND	47.7	78	74-120	vs
1,4-Dichlorobenzene	60.9	ND	47.5	78	73-120	vs
2-Hexanone	305	ND	188	62	59-130	vs
2-Butanone (MEK)	305	ND	181	60	70-134	F1 vs
4-Methyl-2-pentanone (MIBK)	305	ND	199	65	65-133	vs
Acetone	305	ND	181	60	61-137	F1 vs
Benzene	60.9	ND	45.0	74	79-127	F1 vs
Bromodichloromethane	60.9	ND	54.6	90	80-122	vs
Bromoform	60.9	ND	39.9	66	68-126	F1 vs
Bromomethane	60.9	ND	87.6	144	37-149	vs
Carbon disulfide	60.9	ND	30.9	51	64-131	F1 vs
Carbon tetrachloride	60.9	ND	37.3	61	75-135	F1 vs
Chlorobenzene	60.9	ND	47.3	78	76-124	vs
Dibromochloromethane	60.9	ND	47.2	78	76-125	vs
Chloroethane	60.9	ND	75.0	123	69-135	vs
Chloroform	60.9	ND	50.6	83	80-120	vs
Chloromethane	60.9	ND	47.6	78	63-127	vs
cis-1,2-Dichloroethene	60.9	ND	49.2	81	80-120	vs
cis-1,3-Dichloropropene	60.9	ND	48.0	79	80-120	F1 vs
Cyclohexane	60.9	ND	24.7	41	65-120	F1 vs
Dichlorodifluoromethane	60.9	ND	25.3	42	57-142	F1 vs
Ethylbenzene	60.9	ND	45.3	74	80-120	F1 vs
Isopropylbenzene	60.9	ND	44.6	73	72-120	vs
Methyl acetate	305	ND	173	57	55-136	vs
Methyl tert-butyl ether	60.9	ND	47.8	78	63-125	vs
Methylcyclohexane	60.9	ND	22.4	37	60-140	F1 vs
Methylene Chloride	60.9	ND	53.0	87	61-127	vs
Styrene	60.9	ND	47.2	77	80-120	F1 vs
Tetrachloroethene	60.9	ND	35.7	59	74-122	F1 vs

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: F6462.D

Lab ID: 480-121321-4 MS Client ID: TP-04 MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Toluene	60.9	ND	44.6	73	74-128	F1 vs
trans-1,2-Dichloroethene	60.9	ND	43.7	72	78-126	F1 vs
trans-1,3-Dichloropropene	60.9	ND	48.3	79	73-123	vs
Trichloroethene	60.9	ND	43.2	71	77-129	F1 vs
Trichlorofluoromethane	60.9	ND	31.4	52	65-146	F1 vs
Vinyl chloride	60.9	ND	37.1	61	61-133	vs

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: F6463.D

Lab ID: 480-121321-4 MSD Client ID: TP-04 MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1,1-Trichloroethane	60.8	36.6	60	8	30	77-121	F1 vs
1,1,2,2-Tetrachloroethane	60.8	42.0	69	9	30	80-120	F1 vs
1,1,2-Trichloroethane	60.8	44.1	73	7	30	78-122	F1 vs
1,1,2-Trichloro-1,2,2-trifluoroethane	60.8	22.5	37	10	30	60-140	F1 vs
1,1-Dichloroethane	60.8	44.6	73	7	30	73-126	vs
1,1-Dichloroethene	60.8	32.0	53	8	30	59-125	F1 vs
1,2,4-Trichlorobenzene	60.8	35.7	59	4	30	64-120	F1 vs
1,2-Dibromo-3-Chloropropane	60.8	37.8	62	3	30	63-124	F1 vs
1,2-Dibromoethane	60.8	42.6	70	6	30	78-120	F1 vs
1,2-Dichlorobenzene	60.8	44.8	74	6	30	75-120	F1 vs
1,2-Dichloroethane	60.8	45.7	75	6	30	77-122	F1 vs
1,2-Dichloropropane	60.8	46.2	76	6	30	75-124	vs
1,3-Dichlorobenzene	60.8	45.1	74	6	30	74-120	vs
1,4-Dichlorobenzene	60.8	44.5	73	6	30	73-120	vs
2-Hexanone	304	181	60	4	30	59-130	vs
2-Butanone (MEK)	304	174	57	4	30	70-134	F1 vs
4-Methyl-2-pentanone (MIBK)	304	185	61	7	30	65-133	F1 vs
Acetone	304	170	56	7	30	61-137	F1 vs
Benzene	60.8	42.6	70	6	30	79-127	F1 vs
Bromodichloromethane	60.8	51.5	85	6	30	80-122	vs
Bromoform	60.8	38.9	64	3	30	68-126	F1 vs
Bromomethane	60.8	78.9	130	11	30	37-149	vs
Carbon disulfide	60.8	29.0	48	7	30	64-131	F1 vs
Carbon tetrachloride	60.8	34.4	57	8	30	75-135	F1 vs
Chlorobenzene	60.8	43.9	72	7	30	76-124	F1 vs
Dibromochloromethane	60.8	44.5	73	6	30	76-125	F1 vs
Chloroethane	60.8	65.7	108	13	30	69-135	vs
Chloroform	60.8	47.0	77	7	30	80-120	F1 vs
Chloromethane	60.8	43.3	71	10	30	63-127	vs
cis-1,2-Dichloroethene	60.8	45.4	75	8	30	80-120	F1 vs
cis-1,3-Dichloropropene	60.8	44.9	74	7	30	80-120	F1 vs
Cyclohexane	60.8	22.4	37	10	30	65-120	F1 vs
Dichlorodifluoromethane	60.8	22.8	37	11	30	57-142	F1 vs
Ethylbenzene	60.8	42.3	70	7	30	80-120	F1 vs
Isopropylbenzene	60.8	40.7	67	9	30	72-120	F1 vs
Methyl acetate	304	164	54	5	30	55-136	F1 vs
Methyl tert-butyl ether	60.8	44.9	74	6	30	63-125	vs
Methylcyclohexane	60.8	20.3	33	10	30	60-140	F1 vs
Methylene Chloride	60.8	49.5	81	7	30	61-127	vs
Styrene	60.8	43.9	72	7	30	80-120	F1 vs
Tetrachloroethene	60.8	32.8	54	8	30	74-122	F1 vs

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: F6463.D

Lab ID: 480-121321-4 MSD Client ID: TP-04 MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Toluene	60.8	41.5	68	7	30	74-128	F1 vs
trans-1,2-Dichloroethene	60.8	40.7	67	7	30	78-126	F1 vs
trans-1,3-Dichloropropene	60.8	45.4	75	6	30	73-123	vs
Trichloroethene	60.8	40.1	66	7	30	77-129	F1 vs
Trichlorofluoromethane	60.8	28.4	47	10	30	65-146	F1 vs
Vinyl chloride	60.8	33.7	55	10	30	61-133	F1 vs

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.: 480-121321-1

SDG No.:

Lab File ID: F6443.D Lab Sample ID: MB 480-368516/2-A

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

Instrument ID: HP5973F Date Analyzed: 07/25/2017 10:52

GC Column: ZB-624 (30) ID: 0.25(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 480-368516/1-A	F6441.D	07/25/2017 10:01
TP-01	480-121321-1	F6448.D	07/25/2017 13:27
TP-03	480-121321-2	F6449.D	07/25/2017 13:52
TP-18	480-121321-3	F6450.D	07/25/2017 14:18
TP-04	480-121321-4	F6451.D	07/25/2017 14:43
TP-05	480-121321-5	F6452.D	07/25/2017 15:09
DUP	480-121321-6	F6453.D	07/25/2017 15:34
TP-04 MS	480-121321-4 MS	F6462.D	07/25/2017 19:23
TP-04 MSD	480-121321-4 MSD	F6463.D	07/25/2017 19:48

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

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1

SDG No.:

Lab File ID: F6324.D BFB Injection Date: 07/20/2017

Instrument ID: HP5973F BFB Injection Time: 10:51

Analysis Batch No.: 367895

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	19.4	
75	30.0 - 60.0 % of mass 95	52.6	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.1	
173	Less than 2.0 % of mass 174	0.0	(0.0) 1
174	50.0 - 120.00 % of mass 95	82.9	
175	5.0 - 9.0 % of mass 174	7.1	(8.6) 1
176	95.0 - 101.0 % of mass 174	79.6	(96.0) 1
177	5.0 - 9.0 % of mass 176	5.7	(7.2) 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 480-367895/4	F6326.D	07/20/2017	11:43
	IC 480-367895/5	F6327.D	07/20/2017	12:09
	IC 480-367895/6	F6328.D	07/20/2017	12:34
	IC 480-367895/7	F6329.D	07/20/2017	13:00
	ICIS 480-367895/8	F6330.D	07/20/2017	13:25
	IC 480-367895/9	F6331.D	07/20/2017	13:50
	IC 480-367895/10	F6332.D	07/20/2017	14:16

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

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1

SDG No.:

Lab File ID: F6438.D BFB Injection Date: 07/25/2017

Instrument ID: HP5973F BFB Injection Time: 08:25

Analysis Batch No.: 368496

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	20.7	
75	30.0 - 60.0 % of mass 95	53.6	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.8	
173	Less than 2.0 % of mass 174	0.5	(0.7) 1
174	50.0 - 120.00 % of mass 95	81.0	
175	5.0 - 9.0 % of mass 174	6.3	(7.8) 1
176	95.0 - 101.0 % of mass 174	77.3	(95.4) 1
177	5.0 - 9.0 % of mass 176	5.0	(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 480-368496/3	F6439.D	07/25/2017	08:50
	LCS 480-368516/1-A	F6441.D	07/25/2017	10:01
	MB 480-368516/2-A	F6443.D	07/25/2017	10:52
TP-01	480-121321-1	F6448.D	07/25/2017	13:27
TP-03	480-121321-2	F6449.D	07/25/2017	13:52
TP-18	480-121321-3	F6450.D	07/25/2017	14:18
TP-04	480-121321-4	F6451.D	07/25/2017	14:43
TP-05	480-121321-5	F6452.D	07/25/2017	15:09
DUP	480-121321-6	F6453.D	07/25/2017	15:34
TP-04 MS	480-121321-4 MS	F6462.D	07/25/2017	19:23
TP-04 MSD	480-121321-4 MSD	F6463.D	07/25/2017	19:48

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

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1

SDG No.:

Sample No.: ICIS 480-367895/8 Date Analyzed: 07/20/2017 13:25

Instrument ID: HP5973F GC Column: ZB-624 (30) ID: 0.25(mm)

Lab File ID (Standard): F6330.D Heated Purge: (Y/N) Y

Calibration ID: 30918

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		249699	5.22	513779	8.01	521772	10.38
UPPER LIMIT		499398	5.72	1027558	8.51	1043544	10.88
LOWER LIMIT		124850	4.72	256890	7.51	260886	9.88
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCVIS 480-368496/3		243082	5.22	491000	8.01	487570	10.38

FB = Fluorobenzene (IS)
CBNZd5 = Chlorobenzene-d5
DCBd4 = 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.: 480-121321-1

SDG No.:

Sample No.: CCVIS 480-368496/3 Date Analyzed: 07/25/2017 08:50

Instrument ID: HP5973F GC Column: ZB-624 (30) ID: 0.25(mm)

Lab File ID (Standard): F6439.D Heated Purge: (Y/N) Y

Calibration ID: 30915

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		243082	5.22	491000	8.01	487570	10.38
UPPER LIMIT		486164	5.72	982000	8.51	975140	10.88
LOWER LIMIT		121541	4.72	245500	7.51	243785	9.88
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 480-368516/1-A		244096	5.22	507554	8.01	507503	10.38
MB 480-368516/2-A		224257	5.22	469846	8.01	450939	10.38
480-121321-1	TP-01	224612	5.22	477677	8.01	456154	10.38
480-121321-2	TP-03	226563	5.21	474873	8.01	444527	10.38
480-121321-3	TP-18	217307	5.22	438060	8.01	365845	10.38
480-121321-4	TP-04	220409	5.22	449343	8.01	404684	10.38
480-121321-5	TP-05	223407	5.22	470686	8.01	436027	10.38
480-121321-6	DUP	219596	5.21	449450	8.01	408554	10.38
480-121321-4 MS	TP-04 MS	226157	5.22	458051	8.01	421824	10.38
480-121321-4 MSD	TP-04 MSD	231346	5.22	474693	8.01	444692	10.38

FB = Fluorobenzene (IS)
CBNZd5 = Chlorobenzene-d5
DCBd4 = 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.: 480-121321-1

SDG No.:

Client Sample ID: TP-01 | Lab Sample ID: 480-121321-1

Matrix: Solid | Lab File ID: F6448.D

Analysis Method: 8260C | Date Collected: 07/19/2017 09:00

Sample wt/vol: 5.05(g) | Date Analyzed: 07/25/2017 13:27

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) ID: 0.25(mm)

% Moisture: 20.2 | Level: (low/med) Low

Analysis Batch No.: 368496 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND	vs	6.2	0.45
79-34-5	1,1,2,2-Tetrachloroethane	ND	vs	6.2	1.0
79-00-5	1,1,2-Trichloroethane	ND	vs	6.2	0.81
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND	vs	6.2	1.4
75-34-3	1,1-Dichloroethane	ND	vs	6.2	0.76
75-35-4	1,1-Dichloroethene	ND	vs	6.2	0.76
120-82-1	1,2,4-Trichlorobenzene	ND	vs	6.2	0.38
96-12-8	1,2-Dibromo-3-Chloropropane	ND	vs	6.2	3.1
106-93-4	1,2-Dibromoethane	ND	vs	6.2	0.80
95-50-1	1,2-Dichlorobenzene	ND	vs	6.2	0.49
107-06-2	1,2-Dichloroethane	ND	vs	6.2	0.31
78-87-5	1,2-Dichloropropane	ND	vs	6.2	3.1
541-73-1	1,3-Dichlorobenzene	ND	vs	6.2	0.32
106-46-7	1,4-Dichlorobenzene	ND	vs	6.2	0.87
591-78-6	2-Hexanone	ND	vs	31	3.1
78-93-3	2-Butanone (MEK)	ND	vs	31	2.3
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	vs	31	2.0
67-64-1	Acetone	ND	vs	31	5.2
71-43-2	Benzene	ND	vs	6.2	0.30
75-27-4	Bromodichloromethane	ND	vs	6.2	0.83
75-25-2	Bromoform	ND	vs	6.2	3.1
74-83-9	Bromomethane	ND	vs	6.2	0.56
75-15-0	Carbon disulfide	ND	vs	6.2	3.1
56-23-5	Carbon tetrachloride	ND	vs	6.2	0.60
108-90-7	Chlorobenzene	ND	vs	6.2	0.82
124-48-1	Dibromochloromethane	ND	vs	6.2	0.79
75-00-3	Chloroethane	ND	* vs	6.2	1.4
67-66-3	Chloroform	ND	vs	6.2	0.38
74-87-3	Chloromethane	ND	vs	6.2	0.37
156-59-2	cis-1,2-Dichloroethene	ND	vs	6.2	0.79
10061-01-5	cis-1,3-Dichloropropene	ND	vs	6.2	0.89
110-82-7	Cyclohexane	ND	vs	6.2	0.87
75-71-8	Dichlorodifluoromethane	ND	vs	6.2	0.51
100-41-4	Ethylbenzene	ND	vs	6.2	0.43
98-82-8	Isopropylbenzene	ND	vs	6.2	0.94

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121321-1

SDG No.:

Client Sample ID: TP-01 | Lab Sample ID: 480-121321-1

Matrix: Solid | Lab File ID: F6448.D

Analysis Method: 8260C | Date Collected: 07/19/2017 09:00

Sample wt/vol: 5.05(g) | Date Analyzed: 07/25/2017 13:27

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) ID: 0.25(mm)

% Moisture: 20.2 | Level: (low/med) Low

Analysis Batch No.: 368496 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND	vs	31	3.7
1634-04-4	Methyl tert-butyl ether	ND	vs	6.2	0.61
108-87-2	Methylcyclohexane	ND	vs	6.2	0.94
75-09-2	Methylene Chloride	ND	vs	6.2	2.9
100-42-5	Styrene	ND	vs	6.2	0.31
127-18-4	Tetrachloroethene	ND	vs	6.2	0.83
108-88-3	Toluene	ND	vs	6.2	0.47
156-60-5	trans-1,2-Dichloroethene	ND	vs	6.2	0.64
10061-02-6	trans-1,3-Dichloropropene	ND	vs	6.2	2.7
79-01-6	Trichloroethene	ND	vs	6.2	1.4
75-69-4	Trichlorofluoromethane	ND	vs	6.2	0.59
75-01-4	Vinyl chloride	ND	vs	6.2	0.76
1330-20-7	Xylenes, Total	ND	vs	12	1.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	109		64-126
2037-26-5	Toluene-d8 (Surr)	96		71-125
460-00-4	4-Bromofluorobenzene (Surr)	95		72-126

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20170725-64296.b\F6448.D
Lims ID: 480-121321-D-1-A
Client ID: TP-01
Sample Type: Client
Inject. Date: 25-Jul-2017 13:27:30 ALS Bottle#: 5 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-121321-D-1-A
Misc. Info.: 480-0064296-012
Operator ID: AM/LH Instrument ID: HP5973F

Method: \\ChromNA\Buffalo\ChromData\HP5973F\20170725-64296.b\F-8260 SOIL.m
Limit Group: MV - 8260C ICAL
Last Update: 25-Jul-2017 13:40:14 Calib Date: 20-Jul-2017 17:41:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973F\20170720-64196.b\F6340.D

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

First Level Reviewer: moffata Date: 25-Jul-2017 13:40:14

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/kg	Flags
* 153 Fluorobenzene (IS)	70	5.215	5.209	0.006	98	224612	50.0	
* 2 Chlorobenzene-d5	82	8.014	8.014	0.000	89	477677	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.380	10.380	0.000	96	456154	50.0	
$ 4 1,2-Dichloroethane-d4 (Sur	67	4.978	4.972	0.006	0	207977	54.5	
$ 5 Toluene-d8 (Surr)	98	6.578	6.578	0.000	94	1088369	48.2	
$ 6 4-Bromofluorobenzene (Surr	174	9.243	9.243	-0.001	88	364558	47.7	
10 Dichlorodifluoromethane	85		1.821				ND	
12 Chloromethane	50		1.948				ND	
13 Vinyl chloride	62		2.058				ND	
14 Bromomethane	94		2.338				ND	
15 Chloroethane	64		2.411				ND	
17 Trichlorofluoromethane	101		2.593				ND	
21 1,1,2-Trichloro-1,2,2-trif	101		2.964				ND	
22 1,1-Dichloroethene	96		2.989				ND	
23 Acetone	43		3.043				ND	
26 Carbon disulfide	76		3.195				ND	
27 Methyl acetate	43		3.256				ND	
30 Methylene Chloride	84		3.366				ND	
32 Methyl tert-butyl ether	73		3.518				ND	
34 trans-1,2-Dichloroethene	96		3.548				ND	
39 1,1-Dichloroethane	63		3.877				ND	
43 2-Butanone (MEK)	43		4.309				ND	
45 cis-1,2-Dichloroethene	96		4.321				ND	
50 Chloroform	83		4.558				ND	
51 1,1,1-Trichloroethane	97		4.698				ND	
52 Cyclohexane	56		4.728				ND	
55 Carbon tetrachloride	117		4.826				ND	
57 Benzene	78		5.002				ND	
58 1,2-Dichloroethane	62		5.033				ND	
62 Trichloroethene	95		5.513				ND	
64 Methylcyclohexane	83		5.653				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/kg	Flags
65 1,2-Dichloropropane	63		5.732				ND	
68 Dichlorobromomethane	83		5.976				ND	
72 cis-1,3-Dichloropropene	75		6.353				ND	
73 4-Methyl-2-pentanone (MIBK	43		6.456				ND	
74 Toluene	92		6.645				ND	
77 trans-1,3-Dichloropropene	75		6.864				ND	
79 1,1,2-Trichloroethane	83		7.065				ND	
81 Tetrachloroethene	166		7.162				ND	
80 2-Hexanone	43		7.241				ND	
83 Chlorodibromomethane	129		7.466				ND	
84 Ethylene Dibromide	107		7.588				ND	
87 Chlorobenzene	112		8.044				ND	
88 Ethylbenzene	91		8.111				ND	
90 m-Xylene & p-Xylene	106		8.227				ND	
91 o-Xylene	106		8.652				ND	
92 Styrene	104		8.677				ND	
95 Bromoform	173		8.950				ND	
94 Isopropylbenzene	105		9.023				ND	
97 1,1,2,2-Tetrachloroethane	83		9.413				ND	
111 1,3-Dichlorobenzene	146		10.319				ND	
113 1,4-Dichlorobenzene	146		10.404				ND	
116 1,2-Dichlorobenzene	146		10.751				ND	
117 1,2-Dibromo-3-Chloropropan	75		11.439				ND	
119 1,2,4-Trichlorobenzene	180		12.071				ND	
S 124 Xylenes, Total	1		30.000				ND	

Reagents:

F 8260 SURR_00239	Amount Added: 1.00	Units: uL	Run Reagent
F 8260 IS_00556	Amount Added: 1.00	Units: uL	Run Reagent

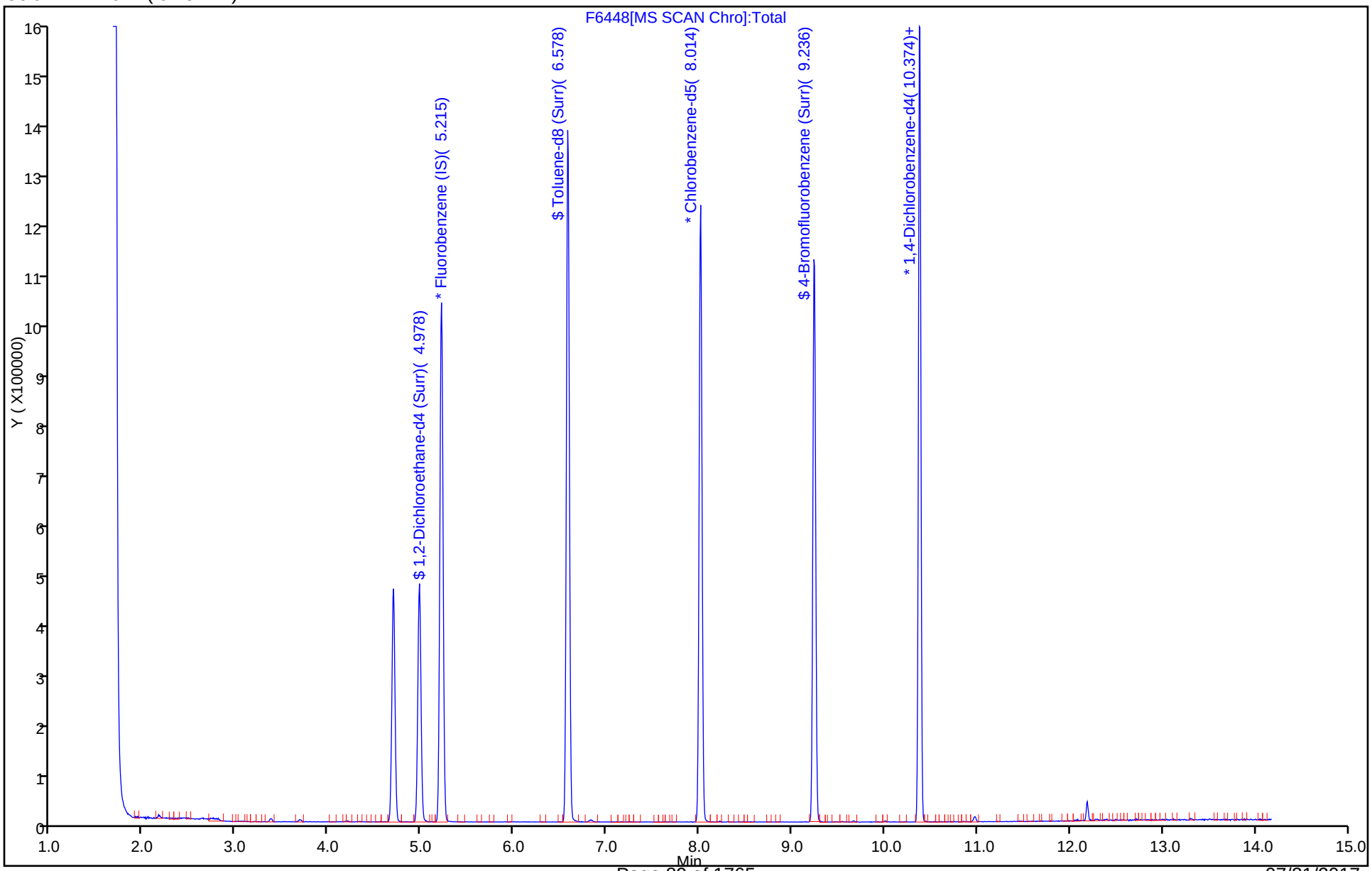
Report Date: 25-Jul-2017 13:40:14 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20170725-64296.b\F6448.D

Injection Date:	25-Jul-2017 13:27:30	Instrument ID:	HP5973F	Operator ID:	AM/LH
Lims ID:	480-121321-D-1-A	Lab Sample ID:	480-121321-1	Worklist Smp#:	12
Client ID:	TP-01				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121321-1

SDG No.:

Client Sample ID: TP-03 | Lab Sample ID: 480-121321-2

Matrix: Solid | Lab File ID: F6449.D

Analysis Method: 8260C | Date Collected: 07/19/2017 10:00

Sample wt/vol: 5.02(g) | Date Analyzed: 07/25/2017 13:52

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) ID: 0.25(mm)

% Moisture: 17.4 | Level: (low/med) Low

Analysis Batch No.: 368496 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND	vs	6.0	0.44
79-34-5	1,1,2,2-Tetrachloroethane	ND	vs	6.0	0.98
79-00-5	1,1,2-Trichloroethane	ND	vs	6.0	0.78
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND	vs	6.0	1.4
75-34-3	1,1-Dichloroethane	ND	vs	6.0	0.74
75-35-4	1,1-Dichloroethene	ND	vs	6.0	0.74
120-82-1	1,2,4-Trichlorobenzene	ND	vs	6.0	0.37
96-12-8	1,2-Dibromo-3-Chloropropane	ND	vs	6.0	3.0
106-93-4	1,2-Dibromoethane	ND	vs	6.0	0.77
95-50-1	1,2-Dichlorobenzene	ND	vs	6.0	0.47
107-06-2	1,2-Dichloroethane	ND	vs	6.0	0.30
78-87-5	1,2-Dichloropropane	ND	vs	6.0	3.0
541-73-1	1,3-Dichlorobenzene	ND	vs	6.0	0.31
106-46-7	1,4-Dichlorobenzene	ND	vs	6.0	0.84
591-78-6	2-Hexanone	ND	vs	30	3.0
78-93-3	2-Butanone (MEK)	ND	vs	30	2.2
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	vs	30	2.0
67-64-1	Acetone	ND	vs	30	5.1
71-43-2	Benzene	ND	vs	6.0	0.30
75-27-4	Bromodichloromethane	ND	vs	6.0	0.81
75-25-2	Bromoform	ND	vs	6.0	3.0
74-83-9	Bromomethane	ND	vs	6.0	0.54
75-15-0	Carbon disulfide	ND	vs	6.0	3.0
56-23-5	Carbon tetrachloride	ND	vs	6.0	0.58
108-90-7	Chlorobenzene	ND	vs	6.0	0.80
124-48-1	Dibromochloromethane	ND	vs	6.0	0.77
75-00-3	Chloroethane	ND	* vs	6.0	1.4
67-66-3	Chloroform	ND	vs	6.0	0.37
74-87-3	Chloromethane	ND	vs	6.0	0.36
156-59-2	cis-1,2-Dichloroethene	ND	vs	6.0	0.77
10061-01-5	cis-1,3-Dichloropropene	ND	vs	6.0	0.87
110-82-7	Cyclohexane	ND	vs	6.0	0.84
75-71-8	Dichlorodifluoromethane	ND	vs	6.0	0.50
100-41-4	Ethylbenzene	ND	vs	6.0	0.42
98-82-8	Isopropylbenzene	ND	vs	6.0	0.91

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121321-1

SDG No.:

Client Sample ID: TP-03 | Lab Sample ID: 480-121321-2

Matrix: Solid | Lab File ID: F6449.D

Analysis Method: 8260C | Date Collected: 07/19/2017 10:00

Sample wt/vol: 5.02(g) | Date Analyzed: 07/25/2017 13:52

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) ID: 0.25(mm)

% Moisture: 17.4 | Level: (low/med) Low

Analysis Batch No.: 368496 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND	vs	30	3.6
1634-04-4	Methyl tert-butyl ether	ND	vs	6.0	0.59
108-87-2	Methylcyclohexane	ND	vs	6.0	0.92
75-09-2	Methylene Chloride	ND	vs	6.0	2.8
100-42-5	Styrene	ND	vs	6.0	0.30
127-18-4	Tetrachloroethene	ND	vs	6.0	0.81
108-88-3	Toluene	ND	vs	6.0	0.46
156-60-5	trans-1,2-Dichloroethene	ND	vs	6.0	0.62
10061-02-6	trans-1,3-Dichloropropene	ND	vs	6.0	2.7
79-01-6	Trichloroethene	ND	vs	6.0	1.3
75-69-4	Trichlorofluoromethane	ND	vs	6.0	0.57
75-01-4	Vinyl chloride	ND	vs	6.0	0.74
1330-20-7	Xylenes, Total	ND	vs	12	1.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	107		64-126
2037-26-5	Toluene-d8 (Surr)	96		71-125
460-00-4	4-Bromofluorobenzene (Surr)	95		72-126

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20170725-64296.b\F6449.D
Lims ID: 480-121321-D-2-A
Client ID: TP-03
Sample Type: Client
Inject. Date: 25-Jul-2017 13:52:30 ALS Bottle#: 6 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-121321-D-2-A
Misc. Info.: 480-0064296-013
Operator ID: AM/LH Instrument ID: HP5973F

Method: \\ChromNA\Buffalo\ChromData\HP5973F\20170725-64296.b\F-8260 SOIL.m
Limit Group: MV - 8260C ICAL
Last Update: 25-Jul-2017 14:48:28 Calib Date: 20-Jul-2017 17:41:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973F\20170720-64196.b\F6340.D

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

First Level Reviewer: moffata Date: 25-Jul-2017 14:48:28

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/kg	Flags
* 153 Fluorobenzene (IS)	70	5.209	5.209	0.000	99	226563	50.0	
* 2 Chlorobenzene-d5	82	8.014	8.014	0.000	89	474873	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.380	10.380	0.000	97	444527	50.0	
$ 4 1,2-Dichloroethane-d4 (Sur	67	4.972	4.972	0.000	0	205649	53.4	
$ 5 Toluene-d8 (Surr)	98	6.578	6.578	0.000	94	1077868	48.1	
$ 6 4-Bromofluorobenzene (Surr	174	9.242	9.243	-0.001	87	361581	47.6	
10 Dichlorodifluoromethane	85		1.821				ND	
12 Chloromethane	50		1.948				ND	
13 Vinyl chloride	62		2.058				ND	
14 Bromomethane	94		2.338				ND	
15 Chloroethane	64		2.411				ND	
17 Trichlorofluoromethane	101		2.593				ND	
21 1,1,2-Trichloro-1,2,2-trif	101		2.964				ND	
22 1,1-Dichloroethene	96		2.989				ND	
23 Acetone	43		3.043				ND	
26 Carbon disulfide	76		3.195				ND	
27 Methyl acetate	43		3.256				ND	
30 Methylene Chloride	84		3.366				ND	
32 Methyl tert-butyl ether	73		3.518				ND	
34 trans-1,2-Dichloroethene	96		3.548				ND	
39 1,1-Dichloroethane	63		3.877				ND	
43 2-Butanone (MEK)	43		4.309				ND	
45 cis-1,2-Dichloroethene	96		4.321				ND	
50 Chloroform	83		4.558				ND	
51 1,1,1-Trichloroethane	97		4.698				ND	
52 Cyclohexane	56		4.728				ND	
55 Carbon tetrachloride	117		4.826				ND	
57 Benzene	78		5.002				ND	
58 1,2-Dichloroethane	62		5.033				ND	
62 Trichloroethene	95		5.513				ND	
64 Methylcyclohexane	83		5.653				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/kg	Flags
65 1,2-Dichloropropane	63		5.732				ND	
68 Dichlorobromomethane	83		5.976				ND	
72 cis-1,3-Dichloropropene	75		6.353				ND	
73 4-Methyl-2-pentanone (MIBK	43		6.456				ND	
74 Toluene	92		6.645				ND	
77 trans-1,3-Dichloropropene	75		6.864				ND	
79 1,1,2-Trichloroethane	83		7.065				ND	
81 Tetrachloroethene	166		7.162				ND	
80 2-Hexanone	43		7.241				ND	
83 Chlorodibromomethane	129		7.466				ND	
84 Ethylene Dibromide	107		7.588				ND	
87 Chlorobenzene	112		8.044				ND	
88 Ethylbenzene	91		8.111				ND	
90 m-Xylene & p-Xylene	106		8.227				ND	
91 o-Xylene	106		8.652				ND	
92 Styrene	104		8.677				ND	
95 Bromoform	173		8.950				ND	
94 Isopropylbenzene	105		9.023				ND	
97 1,1,2,2-Tetrachloroethane	83		9.413				ND	
111 1,3-Dichlorobenzene	146		10.319				ND	
113 1,4-Dichlorobenzene	146		10.404				ND	
116 1,2-Dichlorobenzene	146		10.751				ND	
117 1,2-Dibromo-3-Chloropropan	75		11.439				ND	
119 1,2,4-Trichlorobenzene	180		12.071				ND	
S 124 Xylenes, Total	1		30.000				ND	

Reagents:

F 8260 SURR_00239	Amount Added: 1.00	Units: uL	Run Reagent
F 8260 IS_00556	Amount Added: 1.00	Units: uL	Run Reagent

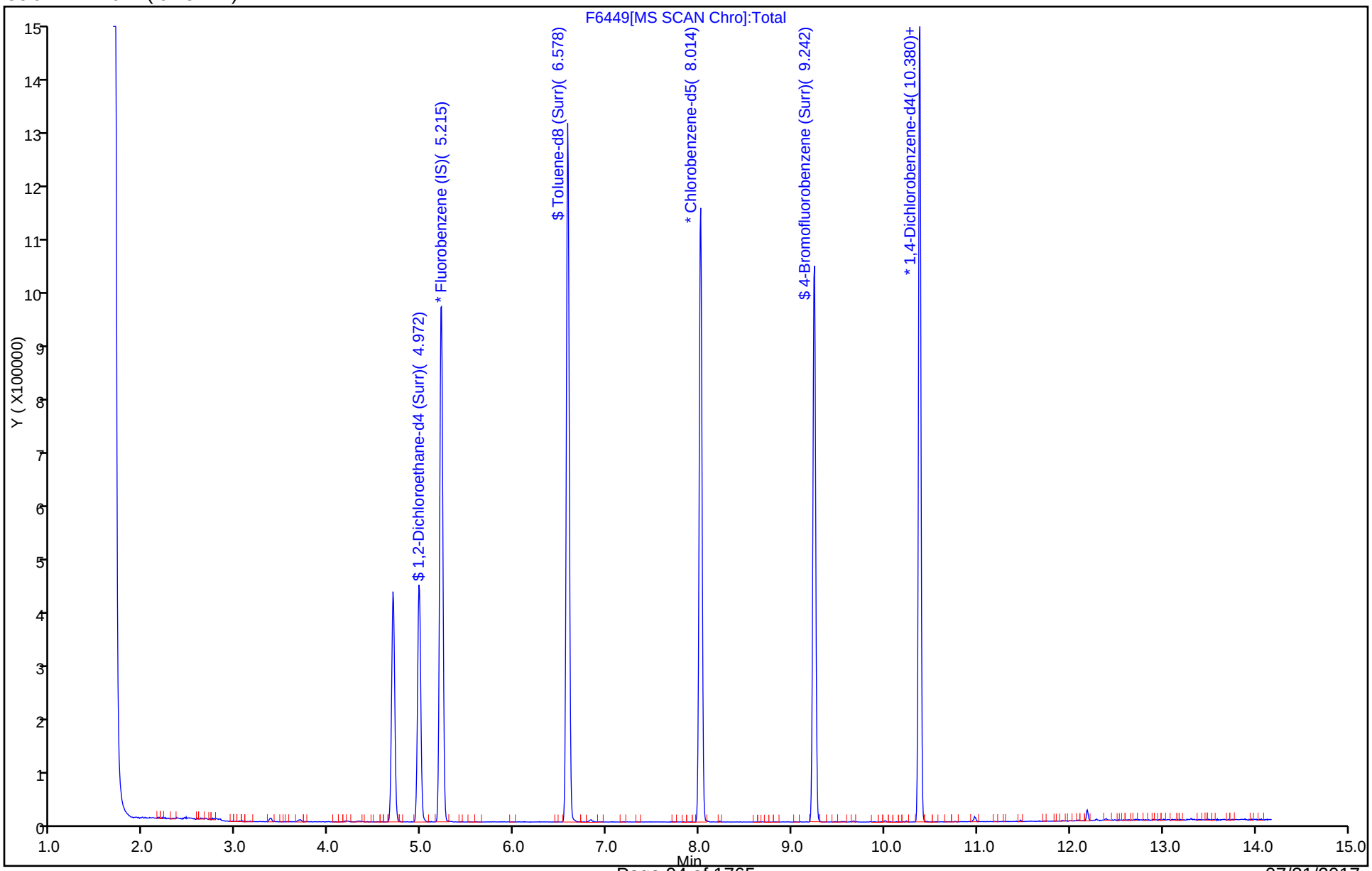
Report Date: 25-Jul-2017 14:48:29 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20170725-64296.b\F6449.D

Injection Date:	25-Jul-2017 13:52:30	Instrument ID:	HP5973F	Operator ID:	AM/LH
Lims ID:	480-121321-D-2-A	Lab Sample ID:	480-121321-2	Worklist Smp#:	13
Client ID:	TP-03				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121321-1

SDG No.:

Client Sample ID: TP-18 | Lab Sample ID: 480-121321-3

Matrix: Solid | Lab File ID: F6450.D

Analysis Method: 8260C | Date Collected: 07/19/2017 11:00

Sample wt/vol: 5.03(g) | Date Analyzed: 07/25/2017 14:18

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) ID: 0.25(mm)

% Moisture: 21.9 | Level: (low/med) Low

Analysis Batch No.: 368496 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND	vs	6.4	0.46
79-34-5	1,1,2,2-Tetrachloroethane	ND	vs	6.4	1.0
79-00-5	1,1,2-Trichloroethane	ND	vs	6.4	0.83
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND	vs	6.4	1.5
75-34-3	1,1-Dichloroethane	ND	vs	6.4	0.78
75-35-4	1,1-Dichloroethene	ND	vs	6.4	0.78
120-82-1	1,2,4-Trichlorobenzene	ND	vs	6.4	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	ND	vs	6.4	3.2
106-93-4	1,2-Dibromoethane	ND	vs	6.4	0.82
95-50-1	1,2-Dichlorobenzene	ND	vs	6.4	0.50
107-06-2	1,2-Dichloroethane	ND	vs	6.4	0.32
78-87-5	1,2-Dichloropropane	ND	vs	6.4	3.2
541-73-1	1,3-Dichlorobenzene	ND	vs	6.4	0.33
106-46-7	1,4-Dichlorobenzene	ND	vs	6.4	0.89
591-78-6	2-Hexanone	ND	vs	32	3.2
78-93-3	2-Butanone (MEK)	ND	vs	32	2.3
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	vs	32	2.1
67-64-1	Acetone	ND	vs	32	5.4
71-43-2	Benzene	ND	vs	6.4	0.31
75-27-4	Bromodichloromethane	ND	vs	6.4	0.85
75-25-2	Bromoform	ND	vs	6.4	3.2
74-83-9	Bromomethane	ND	vs	6.4	0.57
75-15-0	Carbon disulfide	ND	vs	6.4	3.2
56-23-5	Carbon tetrachloride	ND	vs	6.4	0.62
108-90-7	Chlorobenzene	ND	vs	6.4	0.84
124-48-1	Dibromochloromethane	ND	vs	6.4	0.81
75-00-3	Chloroethane	ND	* vs	6.4	1.4
67-66-3	Chloroform	ND	vs	6.4	0.39
74-87-3	Chloromethane	ND	vs	6.4	0.38
156-59-2	cis-1,2-Dichloroethene	ND	vs	6.4	0.81
10061-01-5	cis-1,3-Dichloropropene	ND	vs	6.4	0.92
110-82-7	Cyclohexane	ND	vs	6.4	0.89
75-71-8	Dichlorodifluoromethane	ND	vs	6.4	0.53
100-41-4	Ethylbenzene	ND	vs	6.4	0.44
98-82-8	Isopropylbenzene	ND	vs	6.4	0.96

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121321-1

SDG No.:

Client Sample ID: TP-18 | Lab Sample ID: 480-121321-3

Matrix: Solid | Lab File ID: F6450.D

Analysis Method: 8260C | Date Collected: 07/19/2017 11:00

Sample wt/vol: 5.03(g) | Date Analyzed: 07/25/2017 14:18

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) ID: 0.25(mm)

% Moisture: 21.9 | Level: (low/med) Low

Analysis Batch No.: 368496 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND	vs	32	3.8
1634-04-4	Methyl tert-butyl ether	ND	vs	6.4	0.63
108-87-2	Methylcyclohexane	ND	vs	6.4	0.97
75-09-2	Methylene Chloride	ND	vs	6.4	2.9
100-42-5	Styrene	ND	vs	6.4	0.32
127-18-4	Tetrachloroethene	ND	vs	6.4	0.85
108-88-3	Toluene	ND	vs	6.4	0.48
156-60-5	trans-1,2-Dichloroethene	ND	vs	6.4	0.66
10061-02-6	trans-1,3-Dichloropropene	ND	vs	6.4	2.8
79-01-6	Trichloroethene	ND	vs	6.4	1.4
75-69-4	Trichlorofluoromethane	ND	vs	6.4	0.60
75-01-4	Vinyl chloride	ND	vs	6.4	0.78
1330-20-7	Xylenes, Total	ND	vs	13	1.1

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		64-126
2037-26-5	Toluene-d8 (Surr)	100		71-125
460-00-4	4-Bromofluorobenzene (Surr)	90		72-126

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20170725-64296.b\F6450.D
Lims ID: 480-121321-D-3-A
Client ID: TP-18
Sample Type: Client
Inject. Date: 25-Jul-2017 14:18:30 ALS Bottle#: 7 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-121321-D-3-A
Misc. Info.: 480-0064296-014
Operator ID: AM/LH Instrument ID: HP5973F

Method: \\ChromNA\Buffalo\ChromData\HP5973F\20170725-64296.b\F-8260 SOIL.m
Limit Group: MV - 8260C ICAL
Last Update: 25-Jul-2017 14:49:18 Calib Date: 20-Jul-2017 17:41:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973F\20170720-64196.b\F6340.D

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

First Level Reviewer: moffata Date: 25-Jul-2017 14:49:18

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/kg	Flags
* 153 Fluorobenzene (IS)	70	5.215	5.209	0.006	98	217307	50.0	
* 2 Chlorobenzene-d5	82	8.014	8.014	0.000	89	438060	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.380	10.380	0.000	96	365845	50.0	
$ 4 1,2-Dichloroethane-d4 (Sur	67	4.972	4.972	0.000	0	188782	51.1	
$ 5 Toluene-d8 (Surr)	98	6.578	6.578	0.000	94	1029467	49.8	
$ 6 4-Bromofluorobenzene (Surr	174	9.242	9.243	-0.001	91	315167	45.0	
10 Dichlorodifluoromethane	85		1.821				ND	
12 Chloromethane	50		1.948				ND	
13 Vinyl chloride	62		2.058				ND	
14 Bromomethane	94		2.338				ND	
15 Chloroethane	64		2.411				ND	
17 Trichlorofluoromethane	101		2.593				ND	
21 1,1,2-Trichloro-1,2,2-trif	101		2.964				ND	
22 1,1-Dichloroethene	96		2.989				ND	
23 Acetone	43		3.043				ND	
26 Carbon disulfide	76		3.195				ND	
27 Methyl acetate	43		3.256				ND	
30 Methylene Chloride	84		3.366				ND	
32 Methyl tert-butyl ether	73		3.518				ND	
34 trans-1,2-Dichloroethene	96		3.548				ND	
39 1,1-Dichloroethane	63		3.877				ND	
43 2-Butanone (MEK)	43		4.309				ND	
45 cis-1,2-Dichloroethene	96		4.321				ND	
50 Chloroform	83		4.558				ND	
51 1,1,1-Trichloroethane	97		4.698				ND	
52 Cyclohexane	56		4.728				ND	
55 Carbon tetrachloride	117		4.826				ND	
57 Benzene	78		5.002				ND	
58 1,2-Dichloroethane	62		5.033				ND	
62 Trichloroethene	95		5.513				ND	
64 Methylcyclohexane	83		5.653				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/kg	Flags
65 1,2-Dichloropropane	63		5.732				ND	
68 Dichlorobromomethane	83		5.976				ND	
72 cis-1,3-Dichloropropene	75		6.353				ND	
73 4-Methyl-2-pentanone (MIBK	43		6.456				ND	
74 Toluene	92		6.645				ND	
77 trans-1,3-Dichloropropene	75		6.864				ND	
79 1,1,2-Trichloroethane	83		7.065				ND	
81 Tetrachloroethene	166		7.162				ND	
80 2-Hexanone	43		7.241				ND	
83 Chlorodibromomethane	129		7.466				ND	
84 Ethylene Dibromide	107		7.588				ND	
87 Chlorobenzene	112		8.044				ND	
88 Ethylbenzene	91		8.111				ND	
90 m-Xylene & p-Xylene	106		8.227				ND	
91 o-Xylene	106		8.652				ND	
92 Styrene	104		8.677				ND	
95 Bromoform	173		8.950				ND	
94 Isopropylbenzene	105		9.023				ND	
97 1,1,2,2-Tetrachloroethane	83		9.413				ND	
111 1,3-Dichlorobenzene	146		10.319				ND	
113 1,4-Dichlorobenzene	146		10.404				ND	
116 1,2-Dichlorobenzene	146		10.751				ND	
117 1,2-Dibromo-3-Chloropropan	75		11.439				ND	
119 1,2,4-Trichlorobenzene	180		12.071				ND	
S 124 Xylenes, Total	1		30.000				ND	

Reagents:

F 8260 SURR_00239	Amount Added: 1.00	Units: uL	Run Reagent
F 8260 IS_00556	Amount Added: 1.00	Units: uL	Run Reagent

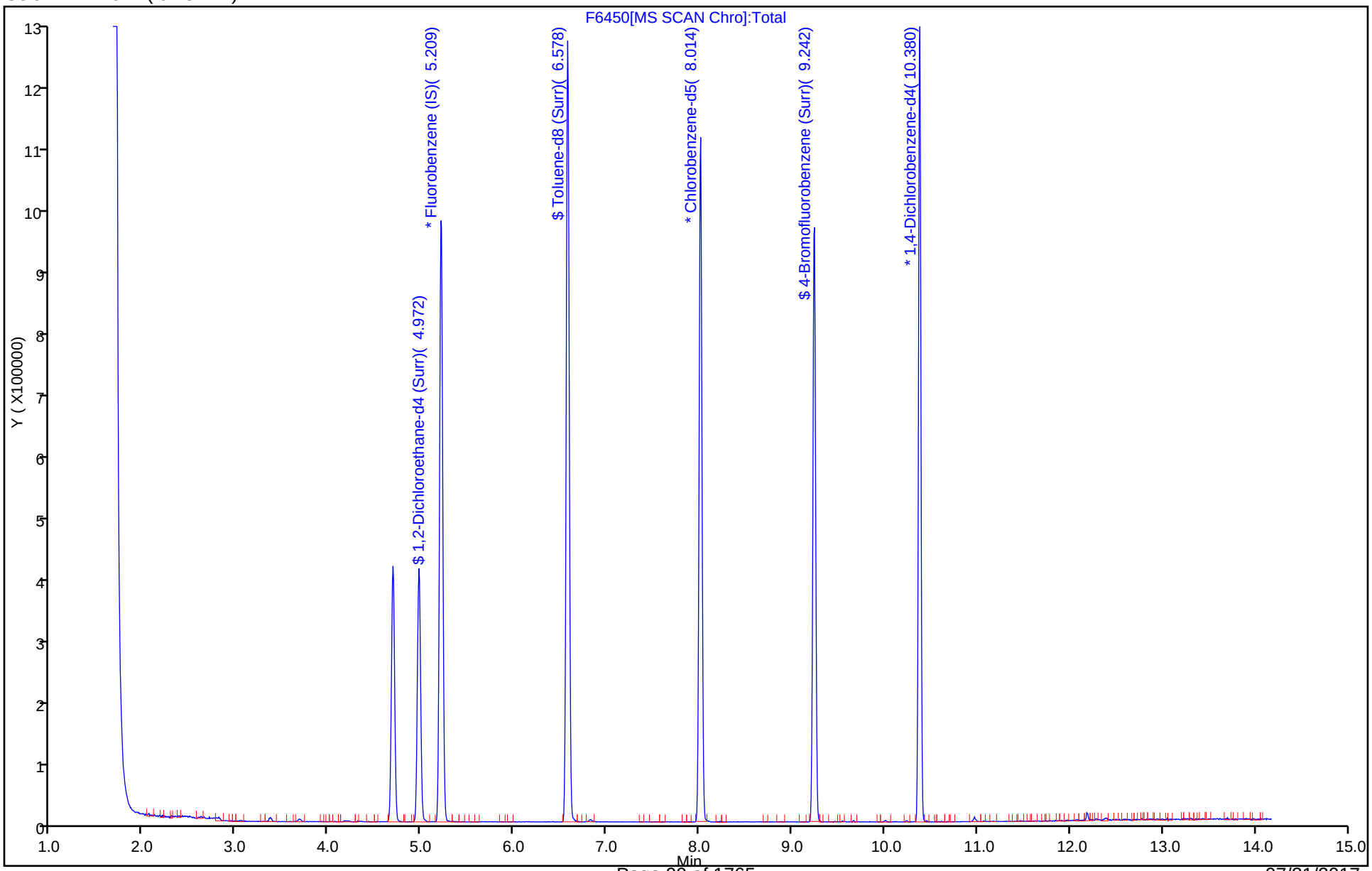
Report Date: 25-Jul-2017 14:49:18 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20170725-64296.b\F6450.D

Injection Date:	25-Jul-2017 14:18:30	Instrument ID:	HP5973F	Operator ID:	AM/LH
Lims ID:	480-121321-D-3-A	Lab Sample ID:	480-121321-3	Worklist Smp#:	14
Client ID:	TP-18				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121321-1

SDG No.:

Client Sample ID: TP-04 | Lab Sample ID: 480-121321-4

Matrix: Solid | Lab File ID: F6451.D

Analysis Method: 8260C | Date Collected: 07/19/2017 13:00

Sample wt/vol: 5(g) | Date Analyzed: 07/25/2017 14:43

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) ID: 0.25(mm)

% Moisture: 17.9 | Level: (low/med) Low

Analysis Batch No.: 368496 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND	F1 vs	6.1	0.44
79-34-5	1,1,2,2-Tetrachloroethane	ND	F1 vs	6.1	0.99
79-00-5	1,1,2-Trichloroethane	ND	F1 vs	6.1	0.79
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND	F1 vs	6.1	1.4
75-34-3	1,1-Dichloroethane	ND	vs	6.1	0.74
75-35-4	1,1-Dichloroethene	ND	F1 vs	6.1	0.75
120-82-1	1,2,4-Trichlorobenzene	ND	F1 vs	6.1	0.37
96-12-8	1,2-Dibromo-3-Chloropropane	ND	F1 vs	6.1	3.0
106-93-4	1,2-Dibromoethane	ND	F1 vs	6.1	0.78
95-50-1	1,2-Dichlorobenzene	ND	F1 vs	6.1	0.48
107-06-2	1,2-Dichloroethane	ND	F1 vs	6.1	0.31
78-87-5	1,2-Dichloropropane	ND	vs	6.1	3.0
541-73-1	1,3-Dichlorobenzene	ND	vs	6.1	0.31
106-46-7	1,4-Dichlorobenzene	ND	vs	6.1	0.85
591-78-6	2-Hexanone	ND	vs	30	3.0
78-93-3	2-Butanone (MEK)	ND	F1 vs	30	2.2
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	F1 vs	30	2.0
67-64-1	Acetone	ND	F1 vs	30	5.1
71-43-2	Benzene	ND	F1 vs	6.1	0.30
75-27-4	Bromodichloromethane	ND	vs	6.1	0.82
75-25-2	Bromoform	ND	F1 vs	6.1	3.0
74-83-9	Bromomethane	ND	vs	6.1	0.55
75-15-0	Carbon disulfide	ND	F1 vs	6.1	3.0
56-23-5	Carbon tetrachloride	ND	F1 vs	6.1	0.59
108-90-7	Chlorobenzene	ND	F1 vs	6.1	0.80
124-48-1	Dibromochloromethane	ND	F1 vs	6.1	0.78
75-00-3	Chloroethane	ND	* vs	6.1	1.4
67-66-3	Chloroform	ND	F1 vs	6.1	0.38
74-87-3	Chloromethane	ND	vs	6.1	0.37
156-59-2	cis-1,2-Dichloroethene	ND	F1 vs	6.1	0.78
10061-01-5	cis-1,3-Dichloropropene	ND	F1 vs	6.1	0.88
110-82-7	Cyclohexane	ND	F1 vs	6.1	0.85
75-71-8	Dichlorodifluoromethane	ND	F1 vs	6.1	0.50
100-41-4	Ethylbenzene	ND	F1 vs	6.1	0.42
98-82-8	Isopropylbenzene	ND	F1 vs	6.1	0.92

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121321-1

SDG No.:

Client Sample ID: TP-04 | Lab Sample ID: 480-121321-4

Matrix: Solid | Lab File ID: F6451.D

Analysis Method: 8260C | Date Collected: 07/19/2017 13:00

Sample wt/vol: 5(g) | Date Analyzed: 07/25/2017 14:43

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) ID: 0.25(mm)

% Moisture: 17.9 | Level: (low/med) Low

Analysis Batch No.: 368496 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND	F1 vs	30	3.7
1634-04-4	Methyl tert-butyl ether	ND	vs	6.1	0.60
108-87-2	Methylcyclohexane	ND	F1 vs	6.1	0.93
75-09-2	Methylene Chloride	ND	vs	6.1	2.8
100-42-5	Styrene	ND	F1 vs	6.1	0.30
127-18-4	Tetrachloroethene	ND	F1 vs	6.1	0.82
108-88-3	Toluene	ND	F1 vs	6.1	0.46
156-60-5	trans-1,2-Dichloroethene	ND	F1 vs	6.1	0.63
10061-02-6	trans-1,3-Dichloropropene	ND	vs	6.1	2.7
79-01-6	Trichloroethene	ND	F1 vs	6.1	1.3
75-69-4	Trichlorofluoromethane	ND	F1 vs	6.1	0.58
75-01-4	Vinyl chloride	ND	F1 vs	6.1	0.74
1330-20-7	Xylenes, Total	ND	F1 vs	12	1.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		64-126
2037-26-5	Toluene-d8 (Surr)	99		71-125
460-00-4	4-Bromofluorobenzene (Surr)	93		72-126

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20170725-64296.b\F6451.D
Lims ID: 480-121321-D-4-A
Client ID: TP-04
Sample Type: Client
Inject. Date: 25-Jul-2017 14:43:30 ALS Bottle#: 8 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-121321-D-4-A
Misc. Info.: 480-0064296-015
Operator ID: AM/LH Instrument ID: HP5973F

Method: \\ChromNA\Buffalo\ChromData\HP5973F\20170725-64296.b\F-8260 SOIL.m
Limit Group: MV - 8260C ICAL
Last Update: 25-Jul-2017 14:09:50 Calib Date: 20-Jul-2017 17:41:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973F\20170720-64196.b\F6340.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK004

First Level Reviewer: o'briens Date: 25-Jul-2017 16:35:37

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/kg	Flags
* 153 Fluorobenzene (IS)	70	5.215	5.209	0.006	98	220409	50.0	
* 2 Chlorobenzene-d5	82	8.014	8.014	0.000	89	449343	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.380	10.380	0.000	96	404684	50.0	
$ 4 1,2-Dichloroethane-d4 (Sur	67	4.978	4.972	0.006	0	190720	50.9	
$ 5 Toluene-d8 (Surr)	98	6.578	6.578	0.000	94	1046417	49.3	
$ 6 4-Bromofluorobenzene (Surr	174	9.242	9.243	-0.001	87	332800	46.3	
10 Dichlorodifluoromethane	85		1.821				ND	
12 Chloromethane	50		1.948				ND	
13 Vinyl chloride	62		2.058				ND	
14 Bromomethane	94		2.338				ND	
15 Chloroethane	64		2.411				ND	
17 Trichlorofluoromethane	101		2.593				ND	
21 1,1,2-Trichloro-1,2,2-trif	101		2.964				ND	
22 1,1-Dichloroethene	96		2.989				ND	
23 Acetone	43		3.043				ND	
26 Carbon disulfide	76		3.195				ND	
27 Methyl acetate	43		3.256				ND	
30 Methylene Chloride	84		3.366				ND	
32 Methyl tert-butyl ether	73		3.518				ND	
34 trans-1,2-Dichloroethene	96		3.548				ND	
39 1,1-Dichloroethane	63		3.877				ND	
43 2-Butanone (MEK)	43		4.309				ND	
45 cis-1,2-Dichloroethene	96		4.321				ND	
50 Chloroform	83		4.558				ND	
51 1,1,1-Trichloroethane	97		4.698				ND	
52 Cyclohexane	56		4.728				ND	
55 Carbon tetrachloride	117		4.826				ND	
57 Benzene	78		5.002				ND	
58 1,2-Dichloroethane	62		5.033				ND	
62 Trichloroethene	95		5.513				ND	
64 Methylcyclohexane	83		5.653				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/kg	Flags
65 1,2-Dichloropropane	63		5.732				ND	
68 Dichlorobromomethane	83		5.976				ND	
72 cis-1,3-Dichloropropene	75		6.353				ND	
73 4-Methyl-2-pentanone (MIBK	43		6.456				ND	
74 Toluene	92		6.645				ND	
77 trans-1,3-Dichloropropene	75		6.864				ND	
79 1,1,2-Trichloroethane	83		7.065				ND	
81 Tetrachloroethene	166		7.162				ND	
80 2-Hexanone	43		7.241				ND	
83 Chlorodibromomethane	129		7.466				ND	
84 Ethylene Dibromide	107		7.588				ND	
87 Chlorobenzene	112		8.044				ND	
88 Ethylbenzene	91		8.111				ND	
90 m-Xylene & p-Xylene	106		8.227				ND	
91 o-Xylene	106		8.652				ND	
92 Styrene	104		8.677				ND	
95 Bromoform	173		8.950				ND	
94 Isopropylbenzene	105		9.023				ND	
97 1,1,2,2-Tetrachloroethane	83		9.413				ND	
111 1,3-Dichlorobenzene	146		10.319				ND	
113 1,4-Dichlorobenzene	146		10.404				ND	
116 1,2-Dichlorobenzene	146		10.751				ND	
117 1,2-Dibromo-3-Chloropropan	75		11.439				ND	
119 1,2,4-Trichlorobenzene	180		12.071				ND	
S 124 Xylenes, Total	1		30.000				ND	

Reagents:

F 8260 SURR_00240	Amount Added: 1.00	Units: uL	Run Reagent
F 8260 IS_00557	Amount Added: 1.00	Units: uL	Run Reagent

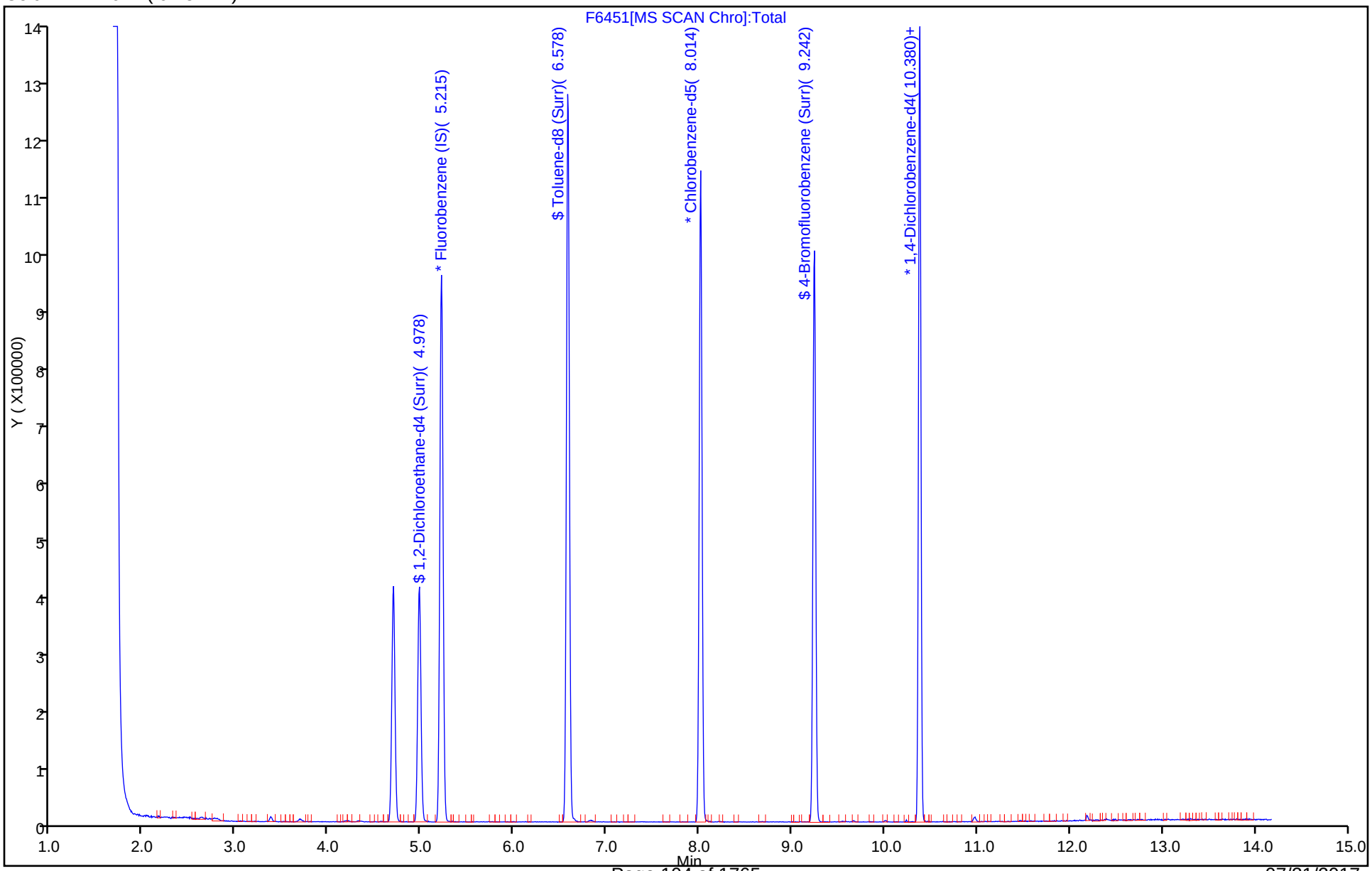
Report Date: 25-Jul-2017 16:35:38 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20170725-64296.b\F6451.D

Injection Date:	25-Jul-2017 14:43:30	Instrument ID:	HP5973F	Operator ID:	AM/LH
Lims ID:	480-121321-D-4-A	Lab Sample ID:	480-121321-4	Worklist Smp#:	15
Client ID:	TP-04				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121321-1

SDG No.:

Client Sample ID: TP-05 | Lab Sample ID: 480-121321-5

Matrix: Solid | Lab File ID: F6452.D

Analysis Method: 8260C | Date Collected: 07/19/2017 14:00

Sample wt/vol: 5.02(g) | Date Analyzed: 07/25/2017 15:09

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) ID: 0.25(mm)

% Moisture: 21.0 | Level: (low/med) Low

Analysis Batch No.: 368496 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND	vs	6.3	0.46
79-34-5	1,1,2,2-Tetrachloroethane	ND	vs	6.3	1.0
79-00-5	1,1,2-Trichloroethane	ND	vs	6.3	0.82
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND	vs	6.3	1.4
75-34-3	1,1-Dichloroethane	ND	vs	6.3	0.77
75-35-4	1,1-Dichloroethene	ND	vs	6.3	0.77
120-82-1	1,2,4-Trichlorobenzene	ND	vs	6.3	0.38
96-12-8	1,2-Dibromo-3-Chloropropane	ND	vs	6.3	3.2
106-93-4	1,2-Dibromoethane	ND	vs	6.3	0.81
95-50-1	1,2-Dichlorobenzene	ND	vs	6.3	0.49
107-06-2	1,2-Dichloroethane	ND	vs	6.3	0.32
78-87-5	1,2-Dichloropropane	ND	vs	6.3	3.2
541-73-1	1,3-Dichlorobenzene	ND	vs	6.3	0.32
106-46-7	1,4-Dichlorobenzene	ND	vs	6.3	0.88
591-78-6	2-Hexanone	ND	vs	32	3.2
78-93-3	2-Butanone (MEK)	ND	vs	32	2.3
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	vs	32	2.1
67-64-1	Acetone	ND	vs	32	5.3
71-43-2	Benzene	ND	vs	6.3	0.31
75-27-4	Bromodichloromethane	ND	vs	6.3	0.84
75-25-2	Bromoform	ND	vs	6.3	3.2
74-83-9	Bromomethane	ND	vs	6.3	0.57
75-15-0	Carbon disulfide	ND	vs	6.3	3.2
56-23-5	Carbon tetrachloride	ND	vs	6.3	0.61
108-90-7	Chlorobenzene	ND	vs	6.3	0.83
124-48-1	Dibromochloromethane	ND	vs	6.3	0.81
75-00-3	Chloroethane	ND	* vs	6.3	1.4
67-66-3	Chloroform	ND	vs	6.3	0.39
74-87-3	Chloromethane	ND	vs	6.3	0.38
156-59-2	cis-1,2-Dichloroethene	ND	vs	6.3	0.81
10061-01-5	cis-1,3-Dichloropropene	ND	vs	6.3	0.91
110-82-7	Cyclohexane	ND	vs	6.3	0.88
75-71-8	Dichlorodifluoromethane	ND	vs	6.3	0.52
100-41-4	Ethylbenzene	ND	vs	6.3	0.43
98-82-8	Isopropylbenzene	ND	vs	6.3	0.95

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121321-1

SDG No.:

Client Sample ID: TP-05 | Lab Sample ID: 480-121321-5

Matrix: Solid | Lab File ID: F6452.D

Analysis Method: 8260C | Date Collected: 07/19/2017 14:00

Sample wt/vol: 5.02(g) | Date Analyzed: 07/25/2017 15:09

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) ID: 0.25(mm)

% Moisture: 21.0 | Level: (low/med) Low

Analysis Batch No.: 368496 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND	vs	32	3.8
1634-04-4	Methyl tert-butyl ether	ND	vs	6.3	0.62
108-87-2	Methylcyclohexane	ND	vs	6.3	0.96
75-09-2	Methylene Chloride	ND	vs	6.3	2.9
100-42-5	Styrene	ND	vs	6.3	0.32
127-18-4	Tetrachloroethene	ND	vs	6.3	0.85
108-88-3	Toluene	ND	vs	6.3	0.48
156-60-5	trans-1,2-Dichloroethene	ND	vs	6.3	0.65
10061-02-6	trans-1,3-Dichloropropene	ND	vs	6.3	2.8
79-01-6	Trichloroethene	ND	vs	6.3	1.4
75-69-4	Trichlorofluoromethane	ND	vs	6.3	0.60
75-01-4	Vinyl chloride	ND	vs	6.3	0.77
1330-20-7	Xylenes, Total	ND	vs	13	1.1

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		64-126
2037-26-5	Toluene-d8 (Surr)	96		71-125
460-00-4	4-Bromofluorobenzene (Surr)	93		72-126

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20170725-64296.b\F6452.D
Lims ID: 480-121321-D-5-A
Client ID: TP-05
Sample Type: Client
Inject. Date: 25-Jul-2017 15:09:30 ALS Bottle#: 9 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-121321-D-5-A
Misc. Info.: 480-0064296-016
Operator ID: AM/LH Instrument ID: HP5973F

Method: \\ChromNA\Buffalo\ChromData\HP5973F\20170725-64296.b\F-8260 SOIL.m
Limit Group: MV - 8260C ICAL
Last Update: 25-Jul-2017 14:35:27 Calib Date: 20-Jul-2017 17:41:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973F\20170720-64196.b\F6340.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK004

First Level Reviewer: o'briens Date: 25-Jul-2017 16:35:54

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/kg	Flags
* 153 Fluorobenzene (IS)	70	5.215	5.209	0.006	98	223407	50.0	
* 2 Chlorobenzene-d5	82	8.014	8.014	0.000	89	470686	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.380	10.380	0.000	96	436027	50.0	
$ 4 1,2-Dichloroethane-d4 (Sur	67	4.978	4.972	0.006	0	194175	51.2	
$ 5 Toluene-d8 (Surr)	98	6.578	6.578	0.000	94	1071186	48.2	
$ 6 4-Bromofluorobenzene (Surr	174	9.243	9.243	0.000	87	350440	46.5	
10 Dichlorodifluoromethane	85		1.821				ND	
12 Chloromethane	50		1.948				ND	
13 Vinyl chloride	62		2.058				ND	
14 Bromomethane	94		2.338				ND	
15 Chloroethane	64		2.411				ND	
17 Trichlorofluoromethane	101		2.593				ND	
21 1,1,2-Trichloro-1,2,2-trif	101		2.964				ND	
22 1,1-Dichloroethene	96		2.989				ND	
23 Acetone	43	3.056	3.043	0.013	34	2688	1.32	
26 Carbon disulfide	76		3.195				ND	
27 Methyl acetate	43		3.256				ND	
30 Methylene Chloride	84		3.366				ND	
32 Methyl tert-butyl ether	73		3.518				ND	
34 trans-1,2-Dichloroethene	96		3.548				ND	
39 1,1-Dichloroethane	63		3.877				ND	
43 2-Butanone (MEK)	43		4.309				ND	
45 cis-1,2-Dichloroethene	96		4.321				ND	
50 Chloroform	83		4.558				ND	
51 1,1,1-Trichloroethane	97		4.698				ND	
52 Cyclohexane	56		4.728				ND	
55 Carbon tetrachloride	117		4.826				ND	
57 Benzene	78		5.002				ND	
58 1,2-Dichloroethane	62		5.033				ND	
62 Trichloroethene	95		5.513				ND	
64 Methylcyclohexane	83		5.653				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/kg	Flags
65 1,2-Dichloropropane	63		5.732				ND	
68 Dichlorobromomethane	83		5.976				ND	
72 cis-1,3-Dichloropropene	75		6.353				ND	
73 4-Methyl-2-pentanone (MIBK	43		6.456				ND	
74 Toluene	92		6.645				ND	
77 trans-1,3-Dichloropropene	75		6.864				ND	
79 1,1,2-Trichloroethane	83		7.065				ND	
81 Tetrachloroethene	166		7.162				ND	
80 2-Hexanone	43		7.241				ND	
83 Chlorodibromomethane	129		7.466				ND	
84 Ethylene Dibromide	107		7.588				ND	
87 Chlorobenzene	112		8.044				ND	
88 Ethylbenzene	91		8.111				ND	
90 m-Xylene & p-Xylene	106		8.227				ND	
91 o-Xylene	106		8.652				ND	
92 Styrene	104		8.677				ND	
95 Bromoform	173		8.950				ND	
94 Isopropylbenzene	105		9.023				ND	
97 1,1,2,2-Tetrachloroethane	83		9.413				ND	
111 1,3-Dichlorobenzene	146		10.319				ND	
113 1,4-Dichlorobenzene	146		10.404				ND	
116 1,2-Dichlorobenzene	146		10.751				ND	
117 1,2-Dibromo-3-Chloropropan	75		11.439				ND	
119 1,2,4-Trichlorobenzene	180		12.071				ND	
S 124 Xylenes, Total	1		30.000				ND	

Reagents:

F 8260 SURR_00240	Amount Added: 1.00	Units: uL	Run Reagent
F 8260 IS_00557	Amount Added: 1.00	Units: uL	Run Reagent

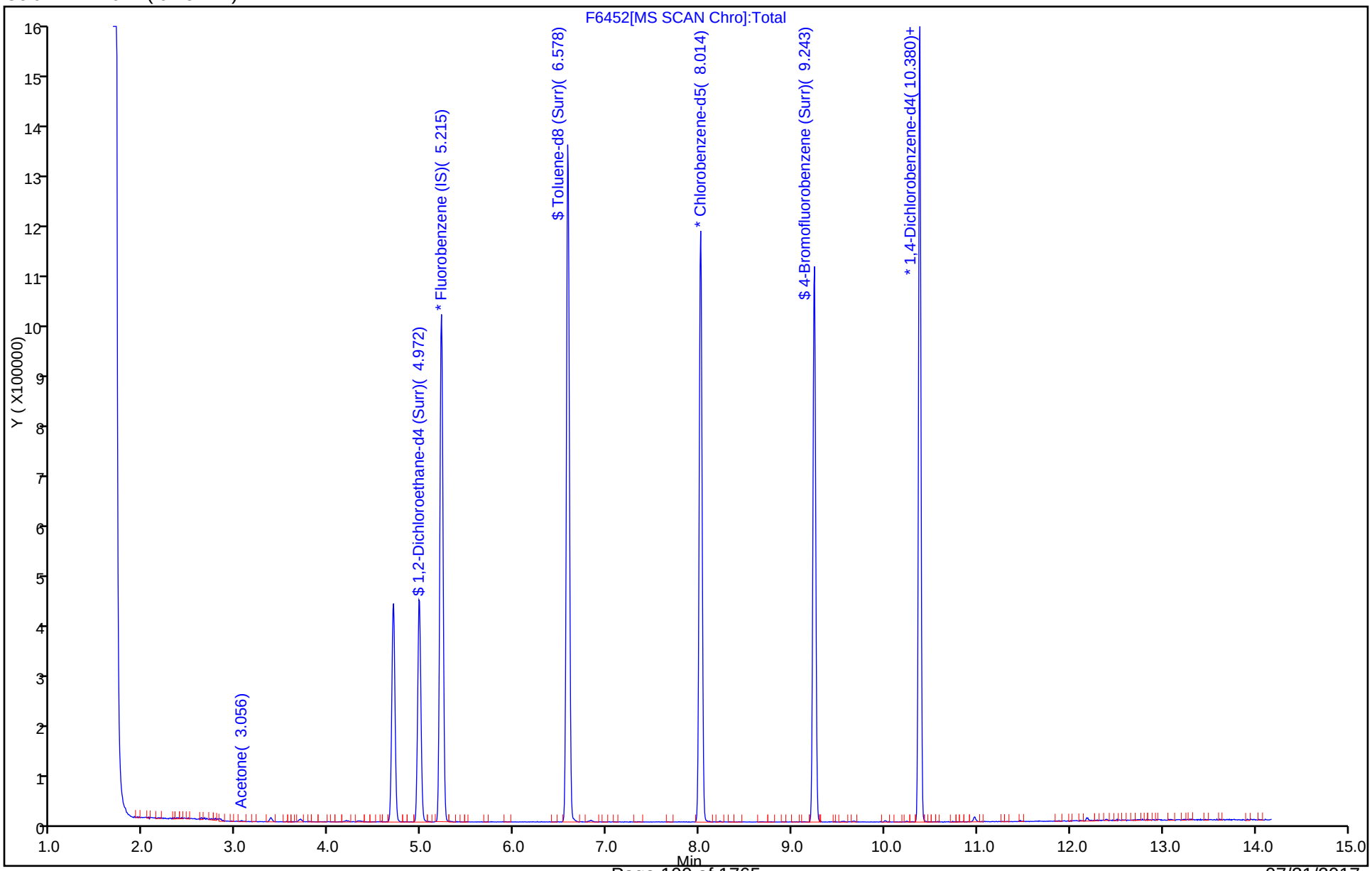
Report Date: 25-Jul-2017 16:35:55 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20170725-64296.b\F6452.D

Injection Date:	25-Jul-2017 15:09:30	Instrument ID:	HP5973F	Operator ID:	AM/LH
Lims ID:	480-121321-D-5-A	Lab Sample ID:	480-121321-5	Worklist Smp#:	16
Client ID:	TP-05				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121321-1

SDG No.:

Client Sample ID: DUP | Lab Sample ID: 480-121321-6

Matrix: Solid | Lab File ID: F6453.D

Analysis Method: 8260C | Date Collected: 07/19/2017 00:00

Sample wt/vol: 5.07(g) | Date Analyzed: 07/25/2017 15:34

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) ID: 0.25(mm)

% Moisture: 17.6 | Level: (low/med) Low

Analysis Batch No.: 368496 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND	vs	6.0	0.43
79-34-5	1,1,2,2-Tetrachloroethane	ND	vs	6.0	0.97
79-00-5	1,1,2-Trichloroethane	ND	vs	6.0	0.78
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND	vs	6.0	1.4
75-34-3	1,1-Dichloroethane	ND	vs	6.0	0.73
75-35-4	1,1-Dichloroethene	ND	vs	6.0	0.73
120-82-1	1,2,4-Trichlorobenzene	ND	vs	6.0	0.36
96-12-8	1,2-Dibromo-3-Chloropropane	ND	vs	6.0	3.0
106-93-4	1,2-Dibromoethane	ND	vs	6.0	0.77
95-50-1	1,2-Dichlorobenzene	ND	vs	6.0	0.47
107-06-2	1,2-Dichloroethane	ND	vs	6.0	0.30
78-87-5	1,2-Dichloropropane	ND	vs	6.0	3.0
541-73-1	1,3-Dichlorobenzene	ND	vs	6.0	0.31
106-46-7	1,4-Dichlorobenzene	ND	vs	6.0	0.84
591-78-6	2-Hexanone	ND	vs	30	3.0
78-93-3	2-Butanone (MEK)	ND	vs	30	2.2
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	vs	30	2.0
67-64-1	Acetone	ND	vs	30	5.0
71-43-2	Benzene	ND	vs	6.0	0.29
75-27-4	Bromodichloromethane	ND	vs	6.0	0.80
75-25-2	Bromoform	ND	vs	6.0	3.0
74-83-9	Bromomethane	ND	vs	6.0	0.54
75-15-0	Carbon disulfide	ND	vs	6.0	3.0
56-23-5	Carbon tetrachloride	ND	vs	6.0	0.58
108-90-7	Chlorobenzene	ND	vs	6.0	0.79
124-48-1	Dibromochloromethane	ND	vs	6.0	0.77
75-00-3	Chloroethane	ND	* vs	6.0	1.4
67-66-3	Chloroform	ND	vs	6.0	0.37
74-87-3	Chloromethane	ND	vs	6.0	0.36
156-59-2	cis-1,2-Dichloroethene	ND	vs	6.0	0.77
10061-01-5	cis-1,3-Dichloropropene	ND	vs	6.0	0.86
110-82-7	Cyclohexane	ND	vs	6.0	0.84
75-71-8	Dichlorodifluoromethane	ND	vs	6.0	0.49
100-41-4	Ethylbenzene	ND	vs	6.0	0.41
98-82-8	Isopropylbenzene	ND	vs	6.0	0.90

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121321-1

SDG No.:

Client Sample ID: DUP | Lab Sample ID: 480-121321-6

Matrix: Solid | Lab File ID: F6453.D

Analysis Method: 8260C | Date Collected: 07/19/2017 00:00

Sample wt/vol: 5.07(g) | Date Analyzed: 07/25/2017 15:34

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) ID: 0.25(mm)

% Moisture: 17.6 | Level: (low/med) Low

Analysis Batch No.: 368496 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND	vs	30	3.6
1634-04-4	Methyl tert-butyl ether	ND	vs	6.0	0.59
108-87-2	Methylcyclohexane	ND	vs	6.0	0.91
75-09-2	Methylene Chloride	ND	vs	6.0	2.8
100-42-5	Styrene	ND	vs	6.0	0.30
127-18-4	Tetrachloroethene	ND	vs	6.0	0.80
108-88-3	Toluene	ND	vs	6.0	0.45
156-60-5	trans-1,2-Dichloroethene	ND	vs	6.0	0.62
10061-02-6	trans-1,3-Dichloropropene	ND	vs	6.0	2.6
79-01-6	Trichloroethene	ND	vs	6.0	1.3
75-69-4	Trichlorofluoromethane	ND	vs	6.0	0.57
75-01-4	Vinyl chloride	ND	vs	6.0	0.73
1330-20-7	Xylenes, Total	ND	vs	12	1.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		64-126
2037-26-5	Toluene-d8 (Surr)	98		71-125
460-00-4	4-Bromofluorobenzene (Surr)	92		72-126

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20170725-64296.b\F6453.D
Lims ID: 480-121321-D-6-A
Client ID: DUP
Sample Type: Client
Inject. Date: 25-Jul-2017 15:34:30 ALS Bottle#: 10 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-121321-D-6-A
Misc. Info.: 480-0064296-017
Operator ID: AM/LH Instrument ID: HP5973F

Method: \\ChromNA\Buffalo\ChromData\HP5973F\20170725-64296.b\F-8260 SOIL.m
Limit Group: MV - 8260C ICAL
Last Update: 25-Jul-2017 14:35:27 Calib Date: 20-Jul-2017 17:41:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973F\20170720-64196.b\F6340.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK004

First Level Reviewer: o'briens Date: 25-Jul-2017 16:36:11

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/kg	Flags
* 153 Fluorobenzene (IS)	70	5.209	5.209	0.000	98	219596	50.0	
* 2 Chlorobenzene-d5	82	8.014	8.014	0.000	89	449450	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.380	10.380	0.000	96	408554	50.0	
$ 4 1,2-Dichloroethane-d4 (Sur	67	4.972	4.972	0.000	0	189349	50.8	
$ 5 Toluene-d8 (Surr)	98	6.578	6.578	0.000	94	1042941	49.1	
$ 6 4-Bromofluorobenzene (Surr	174	9.242	9.243	-0.001	87	332342	46.2	
10 Dichlorodifluoromethane	85		1.821				ND	
12 Chloromethane	50		1.948				ND	
13 Vinyl chloride	62		2.058				ND	
14 Bromomethane	94		2.338				ND	
15 Chloroethane	64		2.411				ND	
17 Trichlorofluoromethane	101		2.593				ND	
21 1,1,2-Trichloro-1,2,2-trif	101		2.964				ND	
22 1,1-Dichloroethene	96		2.989				ND	
23 Acetone	43		3.043				ND	
26 Carbon disulfide	76		3.195				ND	
27 Methyl acetate	43		3.256				ND	
30 Methylene Chloride	84		3.366				ND	
32 Methyl tert-butyl ether	73		3.518				ND	
34 trans-1,2-Dichloroethene	96		3.548				ND	
39 1,1-Dichloroethane	63		3.877				ND	
43 2-Butanone (MEK)	43		4.309				ND	
45 cis-1,2-Dichloroethene	96		4.321				ND	
50 Chloroform	83		4.558				ND	
51 1,1,1-Trichloroethane	97		4.698				ND	
52 Cyclohexane	56		4.728				ND	
55 Carbon tetrachloride	117		4.826				ND	
57 Benzene	78		5.002				ND	
58 1,2-Dichloroethane	62		5.033				ND	
62 Trichloroethene	95		5.513				ND	
64 Methylcyclohexane	83		5.653				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/kg	Flags
65 1,2-Dichloropropane	63		5.732				ND	
68 Dichlorobromomethane	83		5.976				ND	
72 cis-1,3-Dichloropropene	75		6.353				ND	
73 4-Methyl-2-pentanone (MIBK	43		6.456				ND	
74 Toluene	92		6.645				ND	
77 trans-1,3-Dichloropropene	75		6.864				ND	
79 1,1,2-Trichloroethane	83		7.065				ND	
81 Tetrachloroethene	166		7.162				ND	
80 2-Hexanone	43		7.241				ND	
83 Chlorodibromomethane	129		7.466				ND	
84 Ethylene Dibromide	107		7.588				ND	
87 Chlorobenzene	112		8.044				ND	
88 Ethylbenzene	91		8.111				ND	
90 m-Xylene & p-Xylene	106		8.227				ND	
91 o-Xylene	106		8.652				ND	
92 Styrene	104		8.677				ND	
95 Bromoform	173		8.950				ND	
94 Isopropylbenzene	105		9.023				ND	
97 1,1,2,2-Tetrachloroethane	83		9.413				ND	
111 1,3-Dichlorobenzene	146		10.319				ND	
113 1,4-Dichlorobenzene	146		10.404				ND	
116 1,2-Dichlorobenzene	146		10.751				ND	
117 1,2-Dibromo-3-Chloropropan	75		11.439				ND	
119 1,2,4-Trichlorobenzene	180		12.071				ND	
S 124 Xylenes, Total	1		30.000				ND	

Reagents:

F 8260 SURR_00240	Amount Added: 1.00	Units: uL	Run Reagent
F 8260 IS_00557	Amount Added: 1.00	Units: uL	Run Reagent

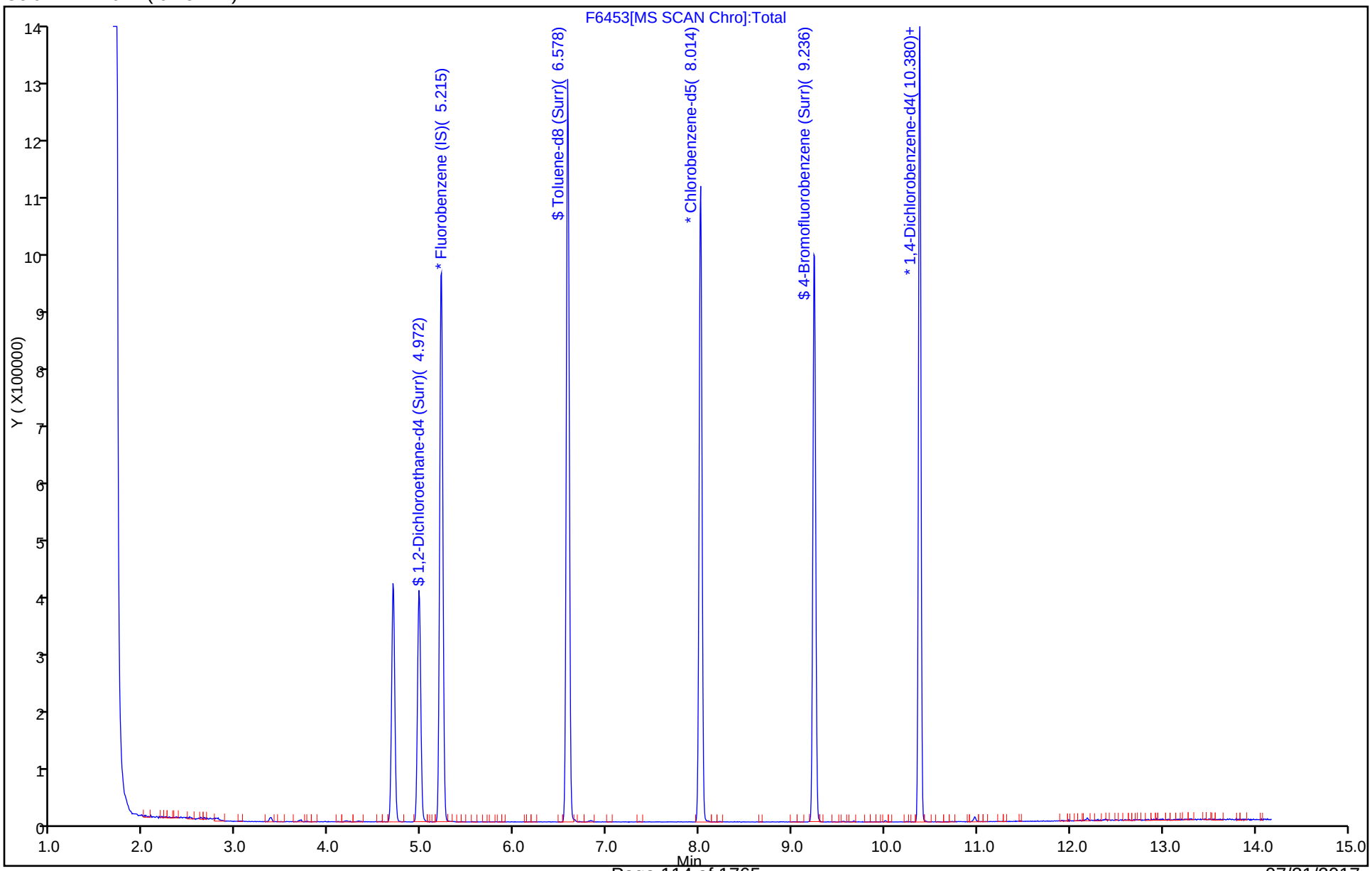
Report Date: 25-Jul-2017 16:36:12 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20170725-64296.b\F6453.D

Injection Date:	25-Jul-2017 15:34:30	Instrument ID:	HP5973F	Operator ID:	AM/LH
Lims ID:	480-121321-D-6-A	Lab Sample ID:	480-121321-6	Worklist Smp#:	17
Client ID:	DUP				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



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

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1 Analy Batch No.: 367895

SDG No.:

Instrument ID: HP5973F GC Column: ZB-624 (30) ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 07/20/2017 11:43 Calibration End Date: 07/20/2017 14:16 Calibration ID: 30918

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-367895/4	F6326.D
Level 2	IC 480-367895/5	F6327.D
Level 3	IC 480-367895/6	F6328.D
Level 4	IC 480-367895/7	F6329.D
Level 5	ICIS 480-367895/8	F6330.D
Level 6	IC 480-367895/9	F6331.D
Level 7	IC 480-367895/10	F6332.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Dichlorodifluoromethane	1.6637 1.4881	1.5915 1.4183	1.5955	1.5835	1.5288	Ave		1.5528			0.1000	5.2		20.0			
Chloromethane	1.4312 1.2153	1.4242 1.1566	1.3498	1.3016	1.2472	Ave		1.3037			0.1000	8.0		20.0			
Vinyl chloride	1.3275 1.1863	1.2729 1.1246	1.3050	1.2499	1.2079	Ave		1.2391			0.1000	5.7		20.0			
Butadiene	1.2369 1.0283	1.2036 0.9936	1.1703	1.1297	1.0647	Ave		1.1182				8.2		20.0			
Bromomethane	+++++ 0.4185	0.4894 0.4187	0.4626	0.4209	0.4062	Ave		0.4360			0.1000	7.5		20.0			
Chloroethane	0.6242 0.3834	0.5820 0.3796	0.4026	0.3878	0.3769	Lin1	0.6658	0.3734			0.1000				0.9990		0.9900
Dichlorofluoromethane	1.6185 1.3467	1.6191 1.3229	1.4976	1.4227	1.3510	Ave		1.4541				8.7		20.0			
Trichlorofluoromethane	1.7134 1.5169	1.7480 1.4893	1.6556	1.5763	1.5178	Ave		1.6025			0.1000	6.5		20.0			
Ethyl ether	0.8769 0.7820	0.8251 0.7776	0.8120	0.8690	0.8387	Ave		0.8259				4.7		20.0			
Acrolein	0.2273 0.1956	0.2098 0.1850	0.2142	0.2047	0.2086	Ave		0.2065				6.5		20.0			
1,1,2-Trichloro-1,2,2-trifluoroethane	1.3964 1.2824	1.3285 1.2563	1.3769	1.4099	1.3241	Ave		1.3392			0.1000	4.3		20.0			
1,1-Dichloroethene	1.2871 1.1665	1.1662 1.1225	1.2588	1.2874	1.1994	Ave		1.2126			0.1000	5.4		20.0			
Acetone	+++++ 0.4171	0.5293 0.4036	0.4458	0.4670	0.4630	Ave		0.4543			0.1000	9.8		20.0			
Iodomethane	2.7399 2.4146	2.4808 2.3191	2.5806	2.5681	2.4682	Ave		2.5102				5.4		20.0			

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

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

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1 Analy Batch No.: 367895

SDG No.:

Instrument ID: HP5973F GC Column: ZB-624 (30) ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 07/20/2017 11:43 Calibration End Date: 07/20/2017 14:16 Calibration ID: 30918

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Carbon disulfide	+++++ 3.9527	5.2686 3.7345	4.6922	4.4988	4.1469	Ave		4.3823			0.1000	12.7		20.0			
Methyl acetate	0.9636 0.8442	0.9323 0.7754	0.8886	0.8840	0.9211	Ave		0.8870			0.1000	7.0		20.0			
Allyl chloride	+++++ 1.8873	2.1730 1.7696	2.0840	2.0864	1.9582	Ave		1.9931				7.5		20.0			
Methylene Chloride	2.0346 1.3797	1.6638 1.3245	1.5336	1.5092	1.4423	Lin1	1.8874	1.3437			0.1000				0.9990		0.9900
2-Methyl-2-propanol	0.1398 0.1534	0.1544 0.1493	0.1498	0.1478	0.1659	Ave		0.1515				5.2		20.0			
Methyl tert-butyl ether	4.0931 3.9719	4.0344 3.7965	4.0740	4.1676	4.1935	Ave		4.0473			0.1000	3.3		20.0			
trans-1,2-Dichloroethene	1.5156 1.3143	1.4394 1.2427	1.4409	1.4204	1.3537	Ave		1.3896			0.1000	6.6		20.0			
Acrylonitrile	0.4601 0.4168	0.4596 0.3852	0.4407	0.4433	0.4573	Ave		0.4376				6.3		20.0			
Hexane	+++++ 1.8997	2.0434 1.7957	2.0521	2.0768	1.9738	Ave		1.9736				5.5		20.0			
Vinyl acetate	2.1922 2.1429	2.1731 2.0070	2.1866	2.2534	2.2767	Ave		2.1760				4.0		20.0			
1,1-Dichloroethane	2.6442 2.3225	2.4637 2.2176	2.4762	2.5020	2.3924	Ave		2.4312			0.2000	5.6		20.0			
2,2-Dichloropropane	2.2013 2.0932	2.0469 2.0010	2.1991	2.1879	2.1373	Ave		2.1238				3.7		20.0			
2-Butanone (MEK)	0.5465 0.5809	0.5749 0.5352	0.5941	0.5871	0.6345	Ave		0.5790			0.1000	5.6		20.0			
cis-1,2-Dichloroethene	1.6288 1.4776	1.5448 1.4094	1.5602	1.5927	1.5389	Ave		1.5361			0.1000	4.7		20.0			
Chlorobromomethane	0.7242 0.7252	0.7516 0.7052	0.7210	0.7456	0.7382	Ave		0.7302				2.2		20.0			
Tetrahydrofuran	0.3601 0.3627	0.3747 0.3378	0.3649	0.3547	0.3889	Ave		0.3634				4.4		20.0			
Chloroform	2.7848 2.4680	2.6058 2.3554	2.5913	2.6195	2.5122	Ave		2.5624			0.2000	5.3		20.0			
1,1,1-Trichloroethane	2.2970 2.2067	2.1807 2.1337	2.2483	2.2534	2.2186	Ave		2.2198			0.1000	2.4		20.0			
Cyclohexane	+++++ 2.0752	2.2724 1.9544	2.2324	2.2628	2.1294	Ave		2.1544			0.1000	5.8		20.0			
1,1-Dichloropropene	+++++ 1.8309	1.9142 1.7197	1.9395	1.9498	1.8729	Ave		1.8712				4.6		20.0			

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

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

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1 Analy Batch No.: 367895

SDG No.:

Instrument ID: HP5973F GC Column: ZB-624 (30) ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 07/20/2017 11:43 Calibration End Date: 07/20/2017 14:16 Calibration ID: 30918

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Carbon tetrachloride	1.6195 1.8329	1.5157 1.8370	1.6099	1.6835	1.7665	Ave		1.6950			0.1000	7.2		20.0			
Isobutyl alcohol	0.0579 0.0613	0.0556 0.0590	0.0551	0.0574	0.0661	Ave		0.0589				6.4		20.0			
Benzene	5.6858 4.9218	5.2573 4.5929	5.4022	5.3155	5.1201	Ave		5.1851			0.5000	6.8		20.0			
1,2-Dichloroethane	2.3581 2.0715	2.1833 1.9723	2.1446	2.1967	2.1605	Ave		2.1553			0.1000	5.5		20.0			
n-Heptane	+++++ 1.8516	2.0755 1.7372	2.0189	2.0846	1.9163	Ave		1.9474				7.1		20.0			
Trichloroethene	1.5575 1.3943	1.4421 1.3471	1.4775	1.4610	1.4232	Ave		1.4432			0.2000	4.6		20.0			
Methylcyclohexane	2.7488 2.3437	2.3679 2.2259	2.5216	2.5096	2.4123	Ave		2.4471			0.1000	6.8		20.0			
1,2-Dichloropropane	1.3606 1.2641	1.2664 1.2239	1.2745	1.3316	1.2825	Ave		1.2862			0.1000	3.5		20.0			
1,4-Dioxane	0.0028 0.0073	0.0043 0.0073	0.0064	0.0074	0.0079	Lin1	-0.228	0.0075							0.9980		0.9900
Dibromomethane	0.9136 0.8875	0.8747 0.8501	0.9016	0.9120	0.9057	Ave		0.8921			0.1000	2.6		20.0			
Bromodichloromethane	1.4490 1.7755	1.4867 1.7806	1.5388	1.6740	1.7170	Ave		1.6317			0.2000	8.5		20.0			
2-Chloroethyl vinyl ether	0.7570 0.7638	0.7163 0.7361	0.7445	0.7498	0.7944	Ave		0.7517				3.2		20.0			
cis-1,3-Dichloropropene	1.9925 2.1996	1.9847 2.1314	2.0107	2.1288	2.2149	Ave		2.0947			0.2000	4.7		20.0			
4-Methyl-2-pentanone (MIBK)	0.5810 0.5589	0.5806 0.5024	0.5800	0.5854	0.6148	Ave		0.5719			0.1000	6.1		20.0			
Toluene	+++++ 1.5859	1.7966 1.5160	1.6926	1.7063	1.6269	Ave		1.6540			0.4000	6.0		20.0			
trans-1,3-Dichloropropene	0.8572 0.9963	0.8128 0.9754	0.8857	0.9607	0.9873	Ave		0.9251			0.1000	7.8		20.0			
Ethyl methacrylate	0.7752 0.8296	0.7521 0.7997	0.7856	0.8281	0.8507	Ave		0.8030				4.3		20.0			
1,1,2-Trichloroethane	0.4759 0.4675	0.4570 0.4547	0.4699	0.4804	0.4780	Ave		0.4691			0.1000	2.2		20.0			
Tetrachloroethene	0.8058 0.7321	0.7596 0.7085	0.7546	0.7696	0.7512	Ave		0.7545			0.2000	4.0		20.0			
1,3-Dichloropropane	1.0724 0.9675	0.9595 0.9271	0.9779	1.0239	1.0054	Ave		0.9905				4.8		20.0			

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

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

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1 Analy Batch No.: 367895

SDG No.:

Instrument ID: HP5973F GC Column: ZB-624 (30) ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 07/20/2017 11:43 Calibration End Date: 07/20/2017 14:16 Calibration ID: 30918

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	0.4023 0.4087	0.4233 0.3669	0.4198	0.4215	0.4493	Ave		0.4131			0.1000	6.1		20.0			
Dibromochloromethane	+++++ 0.6354	0.4031 0.6673	0.4402	0.5200	0.5888	Lin1	-1.840	0.6605			0.1000				0.9980		0.9900
1,2-Dibromoethane	0.5851 0.5926	0.5431 0.5761	0.5622	0.5879	0.5904	Ave		0.5768				3.1		20.0			
Chlorobenzene	1.9705 1.7563	1.8282 1.6771	1.8307	1.8661	1.7874	Ave		1.8166			0.5000	5.0		20.0			
Ethylbenzene	+++++ 2.9081	3.1700 2.6429	3.1661	3.2038	3.0365	Ave		3.0212			0.1000	7.1		20.0			
1,1,1,2-Tetrachloroethane	0.5199 0.6557	0.5087 0.6555	0.5348	0.5970	0.6345	Ave		0.5866				11.0		20.0			
m,p-Xylene	+++++ 1.1966	1.2445 1.1431	1.2474	1.2587	1.2249	Ave		1.2192			0.1000	3.5		20.0			
o-Xylene	1.2913 1.1543	1.1827 1.1181	1.1898	1.2307	1.1888	Ave		1.1937			0.3000	4.6		20.0			
Styrene	+++++ 1.9880	2.0666 1.8844	2.0811	2.1281	2.0428	Ave		2.0318			0.3000	4.2		20.0			
Bromoform	+++++ 0.4107	0.1981 0.4462	0.2298	0.2751	0.3539	Lin1	-1.817	0.4356			0.1000				0.9930		0.9900
Isopropylbenzene	3.3922 2.8746	3.1859 2.6502	3.1836	3.1495	3.0125	Ave		3.0641			0.1000	7.9		20.0			
1,1,2,2-Tetrachloroethane	0.7182 0.6981	0.7094 0.6572	0.7220	0.7206	0.7493	Ave		0.7107			0.3000	4.0		20.0			
Bromobenzene	0.8700 0.8004	0.8465 0.7884	0.8399	0.8504	0.8324	Ave		0.8326				3.5		20.0			
trans-1,4-Dichloro-2-butene	0.2074 0.2292	0.2211 0.2143	0.2088	0.2187	0.2391	Ave		0.2198				5.1		20.0			
N-Propylbenzene	4.0971 3.2490	3.7715 2.8837	3.7617	3.7114	3.5319	Ave		3.5723				11.1		20.0			
1,2,3-Trichloropropane	0.2586 0.2293	0.2530 0.2195	0.2414	0.2396	0.2491	Ave		0.2415				5.7		20.0			
2-Chlorotoluene	0.7957 0.7039	0.7326 0.6825	0.7537	0.7414	0.7265	Ave		0.7337				4.9		20.0			
1,3,5-Trimethylbenzene	2.9560 2.4733	2.6985 2.2744	2.7537	2.7320	2.6045	Ave		2.6418				8.3		20.0			
4-Chlorotoluene	0.8316 0.7288	0.8017 0.7136	0.7893	0.7799	0.7629	Ave		0.7726				5.3		20.0			
tert-Butylbenzene	0.6679 0.5873	0.5974 0.5741	0.6236	0.6149	0.6026	Ave		0.6097				5.0		20.0			

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

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

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1 Analy Batch No.: 367895

SDG No.:

Instrument ID: HP5973F GC Column: ZB-624 (30) ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 07/20/2017 11:43 Calibration End Date: 07/20/2017 14:16 Calibration ID: 30918

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	3.0356 2.5393	2.8595 2.3455	2.7773	2.7840	2.7085	Ave		2.7214				8.2		20.0			
sec-Butylbenzene	3.7476 3.1027	3.4401 2.7803	3.5022	3.4487	3.3091	Ave		3.3330				9.4		20.0			
4-Isopropyltoluene	3.1337 2.6811	2.8661 2.4373	2.9694	2.9226	2.8398	Ave		2.8357				7.9		20.0			
1,3-Dichlorobenzene	1.7500 1.5297	1.6612 1.4610	1.6330	1.6277	1.5876	Ave		1.6072			0.6000	5.8		20.0			
1,4-Dichlorobenzene	1.8007 1.5457	1.6424 1.4665	1.6295	1.6528	1.6056	Ave		1.6205			0.5000	6.4		20.0			
n-Butylbenzene	2.9154 2.4500	2.6719 2.2222	2.7876	2.7096	2.6157	Ave		2.6246				8.7		20.0			
1,2-Dichlorobenzene	1.6586 1.4624	1.5579 1.4100	1.5335	1.5545	1.5272	Ave		1.5291			0.4000	5.1		20.0			
1,2-Dibromo-3-Chloropropane	+++++ 0.1525	0.1125 0.1550	0.1180	0.1242	0.1524	Ave		0.1357			0.0500	14.4		20.0			
1,2,4-Trichlorobenzene	1.0980 1.0237	1.0384 0.9933	1.0564	1.0704	1.0437	Ave		1.0463			0.2000	3.2		20.0			
Hexachlorobutadiene	0.6576 0.5993	0.5982 0.5885	0.6351	0.6221	0.6157	Ave		0.6167				3.9		20.0			
Naphthalene	2.3326 2.2912	2.2743 2.1238	2.3049	2.3599	2.4090	Ave		2.2994				3.9		20.0			
1,2,3-Trichlorobenzene	0.9674 0.9426	0.9328 0.9210	0.9796	0.9873	0.9709	Ave		0.9574				2.6		20.0			
Dibromofluoromethane (Surr)	1.2863 1.3236	1.3172 1.3143	1.3078	1.3211	1.3164	Ave		1.3124				1.0		20.0			
1,2-Dichloroethane-d4 (Surr)	0.8438 0.8558	0.8572 0.8349	0.8480	0.8507	0.8560	Ave		0.8495				0.9		20.0			
Toluene-d8 (Surr)	2.3463 2.3916	2.3195 2.4337	2.3265	2.3726	2.3400	Ave		2.3614				1.7		20.0			
4-Bromofluorobenzene (Surr)	0.7904 0.8178	0.7729 0.8253	0.7888	0.8058	0.8007	Ave		0.8002				2.2		20.0			

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

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

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1 Analy Batch No.: 367895

SDG No.:

Instrument ID: HP5973F GC Column: ZB-624 (30) ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 07/20/2017 11:43 Calibration End Date: 07/20/2017 14:16 Calibration ID: 30918

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-367895/4	F6326.D
Level 2	IC 480-367895/5	F6327.D
Level 3	IC 480-367895/6	F6328.D
Level 4	IC 480-367895/7	F6329.D
Level 5	ICIS 480-367895/8	F6330.D
Level 6	IC 480-367895/9	F6331.D
Level 7	IC 480-367895/10	F6332.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/KG)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Dichlorodifluoromethane	FB	Ave	20456 741873	38568 1429613	77845	155081	381744	2.50 100	5.00 200	10.0	20.0	50.0
Chloromethane	FB	Ave	17597 605870	34514 1165843	65856	127472	311413	2.50 100	5.00 200	10.0	20.0	50.0
Vinyl chloride	FB	Ave	16322 591393	30846 1133626	63671	122408	301611	2.50 100	5.00 200	10.0	20.0	50.0
Butadiene	FB	Ave	15209 512635	29166 1001545	57097	110638	265865	2.50 100	5.00 200	10.0	20.0	50.0
Bromomethane	FB	Ave	+++++ 208645	11859 421995	22568	41218	101419	+++++ 100	5.00 200	10.0	20.0	50.0
Chloroethane	FB	Lin1	7675 191114	14103 382631	19642	37981	94116	2.50 100	5.00 200	10.0	20.0	50.0
Dichlorofluoromethane	FB	Ave	19900 671368	39235 1333487	73065	139336	337337	2.50 100	5.00 200	10.0	20.0	50.0
Trichlorofluoromethane	FB	Ave	21068 756204	42359 1501188	80778	154383	378988	2.50 100	5.00 200	10.0	20.0	50.0
Ethyl ether	FB	Ave	10782 389861	19995 783815	39616	85113	209421	2.50 100	5.00 200	10.0	20.0	50.0
Acrolein	FB	Ave	13974 487499	25426 932528	52261	100234	260409	12.5 500	25.0 1000	50.0	100	250
1,1,2-Trichloro-1,2,2-trifluoroethane	FB	Ave	17170 639325	32193 1266344	67180	138081	330615	2.50 100	5.00 200	10.0	20.0	50.0
1,1-Dichloroethene	FB	Ave	15826 581513	28261 1131484	61418	126090	299491	2.50 100	5.00 200	10.0	20.0	50.0
Acetone	FB	Ave	+++++ 1039731	64131 2033994	108751	228705	577992	+++++ 500	25.0 1000	50.0	100	250
Iodomethane	FB	Ave	33689 1203737	60119 2337632	125906	251515	616313	2.50 100	5.00 200	10.0	20.0	50.0
Carbon disulfide	FB	Ave	+++++ 1970515	127676 3764285	228931	440604	1035466	+++++ 100	5.00 200	10.0	20.0	50.0

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

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1 Analy Batch No.: 367895

SDG No.:

Instrument ID: HP5973F GC Column: ZB-624 (30) ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 07/20/2017 11:43 Calibration End Date: 07/20/2017 14:16 Calibration ID: 30918

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/KG)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Methyl acetate	FB	Ave	59238 2104286	112960 3908178	216780	432895	1149993	12.5 500	25.0 1000	50.0	100	250
Allyl chloride	FB	Ave	+++++ 940884	52660 1783697	101676	204336	488969	+++++ 100	5.00 200	10.0	20.0	50.0
Methylene Chloride	FB	Lin1	25017 687823	40319 1335054	74824	147807	360148	2.50 100	5.00 200	10.0	20.0	50.0
2-Methyl-2-propanol	FB	Ave	17186 764786	37410 1505047	73099	144732	414273	25.0 1000	50.0 2000	100	200	500
Methyl tert-butyl ether	FB	Ave	50327 1980070	97766 3826867	198768	408164	1047101	2.50 100	5.00 200	10.0	20.0	50.0
trans-1,2-Dichloroethene	FB	Ave	18635 655195	34882 1252613	70303	139110	338014	2.50 100	5.00 200	10.0	20.0	50.0
Acrylonitrile	FB	Ave	56573 2077609	111382 3883165	215024	434187	1141954	25.0 1000	50.0 2000	100	200	500
Hexane	FB	Ave	+++++ 947060	49518 1810080	100119	203396	492855	+++++ 100	5.00 200	10.0	20.0	50.0
Vinyl acetate	FB	Ave	53909 2136567	105324 4046103	213366	441380	1136990	5.00 200	10.0 400	20.0	40.0	100
1,1-Dichloroethane	FB	Ave	32512 1157813	59704 2235335	120814	245036	597370	2.50 100	5.00 200	10.0	20.0	50.0
2,2-Dichloropropane	FB	Ave	27066 1043497	49602 2017030	107293	214283	533678	2.50 100	5.00 200	10.0	20.0	50.0
2-Butanone (MEK)	FB	Ave	33597 1447892	69657 2697481	144926	287478	792178	12.5 500	25.0 1000	50.0	100	250
cis-1,2-Dichloroethene	FB	Ave	20027 736608	37435 1420670	76121	155990	384257	2.50 100	5.00 200	10.0	20.0	50.0
Chlorobromomethane	FB	Ave	8905 361526	18214 710828	35175	73027	184333	2.50 100	5.00 200	10.0	20.0	50.0
Tetrahydrofuran	FB	Ave	8855 361624	18159 681039	35610	69477	194222	5.00 200	10.0 400	20.0	40.0	100
Chloroform	FB	Ave	34241 1230364	63146 2374185	126428	256544	627303	2.50 100	5.00 200	10.0	20.0	50.0
1,1,1-Trichloroethane	FB	Ave	28243 1100104	52846 2150762	109691	220696	553979	2.50 100	5.00 200	10.0	20.0	50.0
Cyclohexane	FB	Ave	+++++ 1034557	55068 1969972	108917	221619	531715	+++++ 100	5.00 200	10.0	20.0	50.0
1,1-Dichloropropene	FB	Ave	+++++ 912737	46387 1733486	94629	190958	467658	+++++ 100	5.00 200	10.0	20.0	50.0
Carbon tetrachloride	FB	Ave	19913 913747	36731 1851720	78546	164876	441092	2.50 100	5.00 200	10.0	20.0	50.0
Isobutyl alcohol	FB	Ave	17812 763740	33664 1487313	67186	140420	412434	62.5 2500	125 5000	250	500	1250

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

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1 Analy Batch No.: 367895

SDG No.:

Instrument ID: HP5973F GC Column: ZB-624 (30) ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 07/20/2017 11:43 Calibration End Date: 07/20/2017 14:16 Calibration ID: 30918

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/KG)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Benzene	FB	Ave	69911 2453615	127402 4629602	263571	520586	1278496	2.50 100	5.00 200	10.0	20.0	50.0
1,2-Dichloroethane	FB	Ave	28994 1032689	52909 1988012	104633	215143	539467	2.50 100	5.00 200	10.0	20.0	50.0
n-Heptane	FB	Ave	+++++ 923082	50297 1751083	98499	204161	478499	+++++ 100	5.00 200	10.0	20.0	50.0
Trichloroethene	FB	Ave	19150 695074	34946 1357877	72088	143085	355378	2.50 100	5.00 200	10.0	20.0	50.0
Methylcyclohexane	FB	Ave	33798 1168368	57382 2243684	123025	245784	602359	2.50 100	5.00 200	10.0	20.0	50.0
1,2-Dichloropropane	FB	Ave	16729 630179	30688 1233710	62184	130413	320235	2.50 100	5.00 200	10.0	20.0	50.0
1,4-Dioxane	CBNZ d5	Lin1	1419 148459	4367 297020	12977	29534	81171	50.0 2000	100 4000	200	400	1000
Dibromomethane	FB	Ave	11233 442414	21196 856867	43988	89319	226152	2.50 100	5.00 200	10.0	20.0	50.0
Bromodichloromethane	FB	Ave	17816 885133	36028 1794814	75075	163947	428742	2.50 100	5.00 200	10.0	20.0	50.0
2-Chloroethyl vinyl ether	FB	Ave	9308 380764	17359 742017	36326	73434	198370	2.50 100	5.00 200	10.0	20.0	50.0
cis-1,3-Dichloropropene	FB	Ave	24499 1096527	48096 2148475	98100	208493	553054	2.50 100	5.00 200	10.0	20.0	50.0
4-Methyl-2-pentanone (MIBK)	CBNZ d5	Ave	72745 2849063	146175 5118631	292317	587035	1579381	12.5 500	25.0 1000	50.0	100	250
Toluene	CBNZ d5	Ave	+++++ 1616962	90464 3089086	170625	342202	835846	+++++ 100	5.00 200	10.0	20.0	50.0
trans-1,3-Dichloropropene	CBNZ d5	Ave	21464 1015861	40926 1987513	89290	192671	507270	2.50 100	5.00 200	10.0	20.0	50.0
Ethyl methacrylate	CBNZ d5	Ave	19411 845847	37872 1629551	79191	166076	437086	2.50 100	5.00 200	10.0	20.0	50.0
1,1,2-Trichloroethane	CBNZ d5	Ave	11917 476634	23009 926647	47365	96346	245609	2.50 100	5.00 200	10.0	20.0	50.0
Tetrachloroethene	CBNZ d5	Ave	20176 746479	38247 1443677	76074	154343	385945	2.50 100	5.00 200	10.0	20.0	50.0
1,3-Dichloropropane	CBNZ d5	Ave	26853 986490	48314 1889226	98578	205342	516543	2.50 100	5.00 200	10.0	20.0	50.0
2-Hexanone	CBNZ d5	Ave	50361 2083553	106561 3738265	211612	422631	1154083	12.5 500	25.0 1000	50.0	100	250
Dibromochloromethane	CBNZ d5	Lin1	+++++ 647861	20297 1359822	44373	104294	302519	+++++ 100	5.00 200	10.0	20.0	50.0
1,2-Dibromoethane	CBNZ d5	Ave	14651 604203	27346 1173860	56670	117915	303332	2.50 100	5.00 200	10.0	20.0	50.0

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

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1 Analy Batch No.: 367895

SDG No.:

Instrument ID: HP5973F GC Column: ZB-624 (30) ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 07/20/2017 11:43 Calibration End Date: 07/20/2017 14:16 Calibration ID: 30918

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/KG)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Chlorobenzene	CBNZ d5	Ave	49341 1790763	92057 3417394	184551	374264	918308	2.50 100	5.00 200	10.0	20.0	50.0
Ethylbenzene	CBNZ d5	Ave	+++++ 2965117	159616 5385473	319166	642538	1560076	+++++ 100	5.00 200	10.0	20.0	50.0
1,1,1,2-Tetrachloroethane	CBNZ d5	Ave	13018 668575	25613 1335762	53910	119732	325999	2.50 100	5.00 200	10.0	20.0	50.0
m,p-Xylene	CBNZ d5	Ave	+++++ 1220088	62664 2329337	125749	252446	629311	+++++ 100	5.00 200	10.0	20.0	50.0
o-Xylene	CBNZ d5	Ave	32333 1176909	59554 2278394	119941	246824	610756	2.50 100	5.00 200	10.0	20.0	50.0
Styrene	CBNZ d5	Ave	+++++ 2027015	104059 3839885	209786	426796	1049534	+++++ 100	5.00 200	10.0	20.0	50.0
Bromoform	CBNZ d5	Lin1	+++++ 418708	9976 909203	23164	55168	181803	+++++ 100	5.00 200	10.0	20.0	50.0
Isopropylbenzene	DCBd 4	Ave	83447 3041683	156677 5569835	317727	643751	1571829	2.50 100	5.00 200	10.0	20.0	50.0
1,1,2,2-Tetrachloroethane	DCBd 4	Ave	17667 738707	34885 1381192	72052	147285	390962	2.50 100	5.00 200	10.0	20.0	50.0
Bromobenzene	DCBd 4	Ave	21403 846905	41628 1656976	83823	173816	434307	2.50 100	5.00 200	10.0	20.0	50.0
trans-1,4-Dichloro-2-butene	DCBd 4	Ave	5102 242562	10873 450490	20837	44694	124745	2.50 100	5.00 200	10.0	20.0	50.0
N-Propylbenzene	DCBd 4	Ave	100787 3437834	185477 6060485	375418	758597	1842824	2.50 100	5.00 200	10.0	20.0	50.0
1,2,3-Trichloropropane	DCBd 4	Ave	6362 242618	12440 461259	24094	48977	129969	2.50 100	5.00 200	10.0	20.0	50.0
2-Chlorotoluene	DCBd 4	Ave	19573 744807	36028 1434353	75216	151537	379075	2.50 100	5.00 200	10.0	20.0	50.0
1,3,5-Trimethylbenzene	DCBd 4	Ave	72717 2617115	132707 4780011	274822	558408	1358965	2.50 100	5.00 200	10.0	20.0	50.0
4-Chlorotoluene	DCBd 4	Ave	20457 771222	39427 1499790	78776	159413	398034	2.50 100	5.00 200	10.0	20.0	50.0
tert-Butylbenzene	DCBd 4	Ave	16429 621466	29380 1206491	62233	125676	314436	2.50 100	5.00 200	10.0	20.0	50.0
1,2,4-Trimethylbenzene	DCBd 4	Ave	74676 2686903	140625 4929543	277170	569033	1413205	2.50 100	5.00 200	10.0	20.0	50.0
sec-Butylbenzene	DCBd 4	Ave	92189 3283091	169181 5843192	349523	704913	1726572	2.50 100	5.00 200	10.0	20.0	50.0
4-Isopropyltoluene	DCBd 4	Ave	77088 2836916	140952 5122436	296347	597373	1481738	2.50 100	5.00 200	10.0	20.0	50.0
1,3-Dichlorobenzene	DCBd 4	Ave	43049 1618609	81695 3070433	162976	332702	828372	2.50 100	5.00 200	10.0	20.0	50.0

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

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1 Analy Batch No.: 367895

SDG No.:

Instrument ID: HP5973F GC Column: ZB-624 (30) ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 07/20/2017 11:43 Calibration End Date: 07/20/2017 14:16 Calibration ID: 30918

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/KG)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
1,4-Dichlorobenzene	DCBd 4	Ave	44297 1635606	80773 3082149	162620	337831	837772	2.50 100	5.00 200	10.0	20.0	50.0
n-Butylbenzene	DCBd 4	Ave	71718 2592397	131400 4670385	278206	553836	1364825	2.50 100	5.00 200	10.0	20.0	50.0
1,2-Dichlorobenzene	DCBd 4	Ave	40802 1547381	76614 2963263	153047	317727	796831	2.50 100	5.00 200	10.0	20.0	50.0
1,2-Dibromo-3-Chloropropane	DCBd 4	Ave	+++++ 161337	5533 325731	11772	25376	79527	+++++ 100	5.00 200	10.0	20.0	50.0
1,2,4-Trichlorobenzene	DCBd 4	Ave	27010 1083264	51068 2087551	105428	218779	544554	2.50 100	5.00 200	10.0	20.0	50.0
Hexachlorobutadiene	DCBd 4	Ave	16176 634166	29420 1236872	63386	127165	321237	2.50 100	5.00 200	10.0	20.0	50.0
Naphthalene	DCBd 4	Ave	57382 2424395	111845 4463512	230027	482362	1256929	2.50 100	5.00 200	10.0	20.0	50.0
1,2,3-Trichlorobenzene	DCBd 4	Ave	23799 997367	45872 1935590	97765	201808	506579	2.50 100	5.00 200	10.0	20.0	50.0
Dibromofluoromethane (Surr)	FB	Ave	316313 329921	319194 331206	319033	323454	328709	50.0 50.0	50.0 50.0	50.0	50.0	50.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	207506 213309	207716 210382	206878	208278	213748	50.0 50.0	50.0 50.0	50.0	50.0	50.0
Toluene-d8 (Surr)	CBNZ d5	Ave	1175017 1219264	1167924 1239779	1172619	1189593	1202239	50.0 50.0	50.0 50.0	50.0	50.0	50.0
4-Bromofluorobenzene (Surr)	CBNZ d5	Ave	395821 416905	389165 420445	397567	404014	411389	50.0 50.0	50.0 50.0	50.0	50.0	50.0

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20170720-64196.b\F6326.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 20-Jul-2017 11:43:30 ALS Bottle#: 2 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC
Misc. Info.: 480-0064196-004
Operator ID: CDC Instrument ID: HP5973F
Sublist: chrom-F-8260 SOIL*sub27

Method: \\ChromNA\Buffalo\ChromData\HP5973F\20170720-64196.b\F-8260 SOIL.m
Limit Group: MV - 8260C ICAL
Last Update: 21-Jul-2017 07:11:23 Calib Date: 20-Jul-2017 17:41:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973F\20170720-64196.b\F6340.D

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

First Level Reviewer: cwiklinc Date: 20-Jul-2017 12:47:59

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
* 153 Fluorobenzene (IS)	70	5.215	5.215	0.000	98	245914	50.0	50.0	
* 2 Chlorobenzene-d5	82	8.014	8.014	0.000	89	500788	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.380	10.380	0.000	96	491995	50.0	50.0	
$ 154 Dibromofluoromethane (Surr	113	4.698	4.698	0.000	93	316313	50.0	49.0	
$ 4 1,2-Dichloroethane-d4 (Sur	67	4.972	4.978	-0.006	0	207506	50.0	49.7	
$ 5 Toluene-d8 (Surr)	98	6.584	6.578	0.006	94	1175017	50.0	49.7	
$ 6 4-Bromofluorobenzene (Surr	174	9.243	9.243	0.001	88	395821	50.0	49.4	
10 Dichlorodifluoromethane	85	1.839	1.827	0.012	98	20456	2.50	2.68	
12 Chloromethane	50	1.948	1.954	-0.006	98	17597	2.50	2.74	
13 Vinyl chloride	62	2.058	2.064	-0.006	97	16322	2.50	2.68	
151 Butadiene	54	2.076	2.076	0.000	89	15209	2.50	2.77	
14 Bromomethane	94	2.344	2.338	0.006	96	8054	2.50	3.76	
15 Chloroethane	64	2.411	2.417	-0.006	97	7675	2.50	2.40	
16 Dichlorofluoromethane	67	2.569	2.569	0.000	96	19900	2.50	2.78	
17 Trichlorofluoromethane	101	2.611	2.605	0.006	88	21068	2.50	2.67	
18 Ethyl ether	59	2.782	2.788	-0.006	91	10782	2.50	2.65	
20 Acrolein	56	2.946	2.934	0.012	97	13974	12.5	13.8	
21 1,1,2-Trichloro-1,2,2-trif	101	2.970	2.970	0.000	91	17170	2.50	2.61	
22 1,1-Dichloroethene	96	2.995	2.995	0.000	98	15826	2.50	2.65	
23 Acetone	43	3.043	3.049	-0.006	99	35479	12.5	15.9	
25 Iodomethane	142	3.147	3.147	0.000	99	33689	2.50	2.73	
26 Carbon disulfide	76	3.202	3.195	0.007	99	84112	2.50	3.90	
27 Methyl acetate	43	3.262	3.256	0.006	95	59238	12.5	13.6	
28 3-Chloro-1-propene	41	3.262	3.262	0.000	77	29314	2.50	2.99	
30 Methylene Chloride	84	3.378	3.372	0.006	93	25017	2.50	2.38	
31 2-Methyl-2-propanol	59	3.433	3.427	0.006	91	17186	25.0	23.1	
32 Methyl tert-butyl ether	73	3.524	3.518	0.006	97	50327	2.50	2.53	
34 trans-1,2-Dichloroethene	96	3.554	3.554	0.000	97	18635	2.50	2.73	
33 Acrylonitrile	53	3.579	3.567	0.012	97	56573	25.0	26.3	
35 Hexane	57	3.688	3.688	0.000	92	29719	2.50	3.06	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
37 Vinyl acetate	43	3.871	3.865	0.006	97	53909	5.00	5.04	
39 1,1-Dichloroethane	63	3.877	3.877	0.000	95	32512	2.50	2.72	
44 2,2-Dichloropropane	77	4.315	4.309	0.006	67	27066	2.50	2.59	
43 2-Butanone (MEK)	43	4.321	4.309	0.012	89	33597	12.5	11.8	
45 cis-1,2-Dichloroethene	96	4.327	4.321	0.006	84	20027	2.50	2.65	
48 Chlorobromomethane	128	4.528	4.522	0.006	88	8905	2.50	2.48	
49 Tetrahydrofuran	42	4.558	4.546	0.012	51	8855	5.00	4.95	
50 Chloroform	83	4.564	4.558	0.006	94	34241	2.50	2.72	
51 1,1,1-Trichloroethane	97	4.704	4.704	0.000	50	28243	2.50	2.59	
52 Cyclohexane	56	4.741	4.729	0.013	90	31795	2.50	3.00	
54 1,1-Dichloropropene	75	4.826	4.820	0.006	94	25969	2.50	2.82	
55 Carbon tetrachloride	117	4.838	4.832	0.006	93	19913	2.50	2.39	
53 Isobutyl alcohol	43	4.893	4.887	0.006	87	17812	62.5	61.5	M
57 Benzene	78	5.002	5.002	0.000	93	69911	2.50	2.74	
58 1,2-Dichloroethane	62	5.039	5.039	0.000	94	28994	2.50	2.74	
59 n-Heptane	43	5.094	5.100	-0.006	89	28281	2.50	2.95	
62 Trichloroethene	95	5.526	5.519	0.007	96	19150	2.50	2.70	
64 Methylcyclohexane	83	5.653	5.653	0.000	89	33798	2.50	2.81	
65 1,2-Dichloropropane	63	5.738	5.738	0.000	90	16729	2.50	2.64	
66 1,4-Dioxane	88	5.854	5.842	0.012	1	1419	50.0	49.4	M
67 Dibromomethane	93	5.866	5.866	0.000	92	11233	2.50	2.56	
68 Dichlorobromomethane	83	5.982	5.976	0.006	98	17816	2.50	2.22	
69 2-Chloroethyl vinyl ether	63	6.189	6.189	0.000	91	9308	2.50	2.52	
72 cis-1,3-Dichloropropene	75	6.353	6.353	0.000	95	24499	2.50	2.38	
73 4-Methyl-2-pentanone (MIBK	43	6.462	6.456	0.006	97	72745	12.5	12.7	
74 Toluene	92	6.645	6.645	0.000	98	52464	2.50	3.17	
77 trans-1,3-Dichloropropene	75	6.870	6.870	0.000	94	21464	2.50	2.32	
75 Ethyl methacrylate	69	6.876	6.870	0.006	68	19411	2.50	2.41	
79 1,1,2-Trichloroethane	83	7.065	7.065	0.000	94	11917	2.50	2.54	
81 Tetrachloroethene	166	7.162	7.162	0.000	93	20176	2.50	2.67	
82 1,3-Dichloropropane	76	7.223	7.223	0.000	94	26853	2.50	2.71	
80 2-Hexanone	43	7.247	7.241	0.006	95	50361	12.5	12.2	
83 Chlorodibromomethane	129	7.472	7.466	0.006	87	9941	2.50	4.29	
84 Ethylene Dibromide	107	7.594	7.594	0.000	97	14651	2.50	2.54	
87 Chlorobenzene	112	8.044	8.044	0.000	94	49341	2.50	2.71	
88 Ethylbenzene	91	8.111	8.111	0.000	98	88914	2.50	2.94	
89 1,1,1,2-Tetrachloroethane	131	8.123	8.123	0.000	89	13018	2.50	2.22	
90 m-Xylene & p-Xylene	106	8.227	8.227	0.000	99	36209	2.50	2.97	
91 o-Xylene	106	8.659	8.658	0.001	96	32333	2.50	2.70	
92 Styrene	104	8.677	8.677	0.000	94	63471	2.50	3.12	
95 Bromoform	173	8.951	8.951	0.001	90	5022	2.50	5.32	
94 Isopropylbenzene	105	9.024	9.024	0.000	97	83447	2.50	2.77	
97 1,1,2,2-Tetrachloroethane	83	9.413	9.413	0.000	73	17667	2.50	2.53	
101 Bromobenzene	156	9.419	9.413	0.006	92	21403	2.50	2.61	
98 trans-1,4-Dichloro-2-buten	53	9.456	9.455	0.001	41	5102	2.50	2.36	
99 N-Propylbenzene	91	9.456	9.455	0.001	99	100787	2.50	2.87	
100 1,2,3-Trichloropropane	110	9.468	9.462	0.006	52	6362	2.50	2.68	
103 2-Chlorotoluene	126	9.583	9.589	-0.006	95	19573	2.50	2.71	
102 1,3,5-Trimethylbenzene	105	9.632	9.626	0.006	94	72717	2.50	2.80	
105 4-Chlorotoluene	126	9.699	9.693	0.006	99	20457	2.50	2.69	
106 tert-Butylbenzene	134	9.954	9.954	0.000	90	16429	2.50	2.74	
107 1,2,4-Trimethylbenzene	105	10.009	10.009	0.000	96	74676	2.50	2.79	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
109 sec-Butylbenzene	105	10.161	10.161	0.000	95	92189	2.50	2.81	
110 4-Isopropyltoluene	119	10.289	10.289	0.000	96	77088	2.50	2.76	
111 1,3-Dichlorobenzene	146	10.319	10.319	0.000	97	43049	2.50	2.72	
113 1,4-Dichlorobenzene	146	10.405	10.404	0.001	95	44297	2.50	2.78	
115 n-Butylbenzene	91	10.672	10.666	0.006	97	71718	2.50	2.78	
116 1,2-Dichlorobenzene	146	10.751	10.751	0.000	98	40802	2.50	2.71	
117 1,2-Dibromo-3-Chloropropan	75	11.439	11.439	0.000	74	2446	2.50	1.83	
119 1,2,4-Trichlorobenzene	180	12.071	12.071	0.000	93	27010	2.50	2.62	
120 Hexachlorobutadiene	225	12.169	12.169	0.000	96	16176	2.50	2.67	
121 Naphthalene	128	12.290	12.290	0.000	98	57382	2.50	2.54	
122 1,2,3-Trichlorobenzene	180	12.491	12.497	-0.006	93	23799	2.50	2.53	
S 123 Total BTEX	1				0			14.5	
S 124 Xylenes, Total	1				0			5.67	
S 125 1,2-Dichloroethene, Total	1				0			5.38	
S 126 1,3-Dichloropropene, Total	1				0			4.69	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00103	Amount Added:	2.50	Units: uL	
GAS CORP mix_00230	Amount Added:	2.50	Units: uL	
F 8260 SURR_00239	Amount Added:	1.00	Units: uL	Run Reagent
F 8260 IS_00556	Amount Added:	1.00	Units: uL	Run Reagent

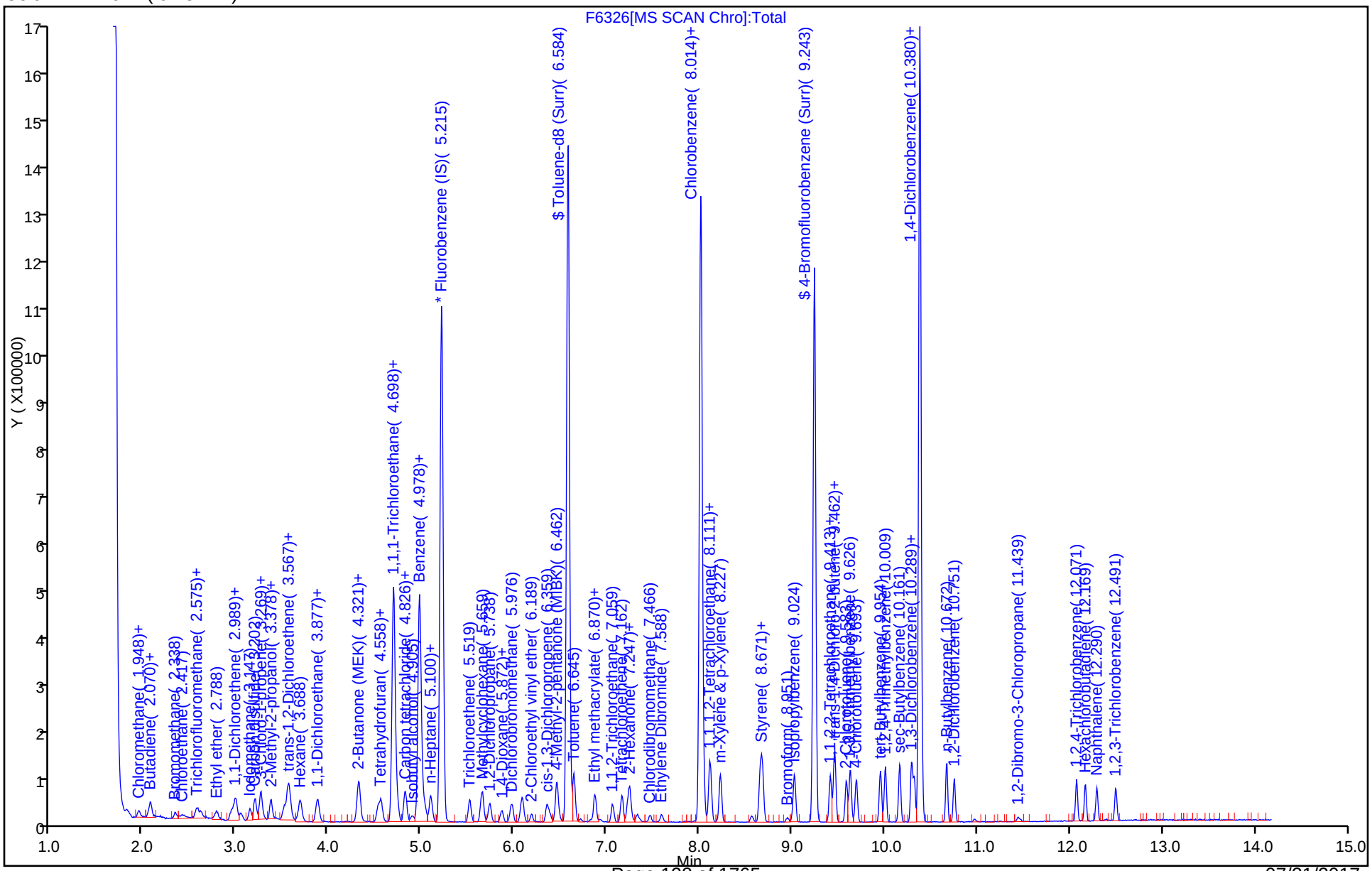
Report Date: 21-Jul-2017 07:11:24 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20170720-64196.b\F6326.D

Injection Date:	20-Jul-2017 11:43:30	Instrument ID:	HP5973F	Operator ID:	CDC
Lims ID:	IC			Worklist Smp#:	4
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

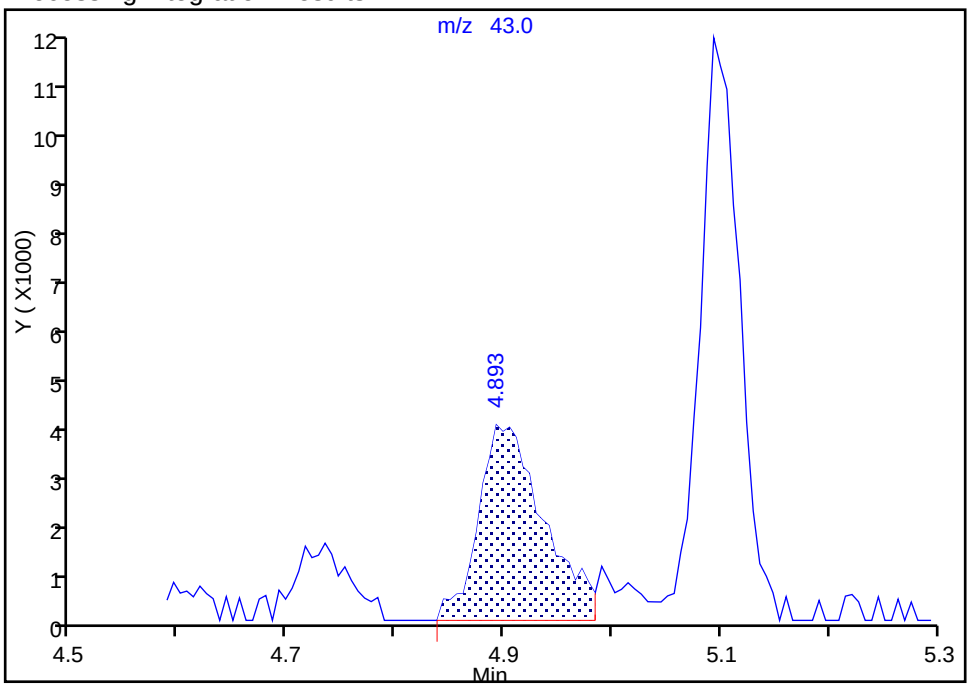
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Injection Date: 20-Jul-2017 11:43:30 Instrument ID: HP5973F
Lims ID: IC
Client ID:
Operator ID: CDC ALS Bottle#: 2 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: F-8260 SOIL Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

53 Isobutyl alcohol, CAS: 78-83-1

Signal: 1

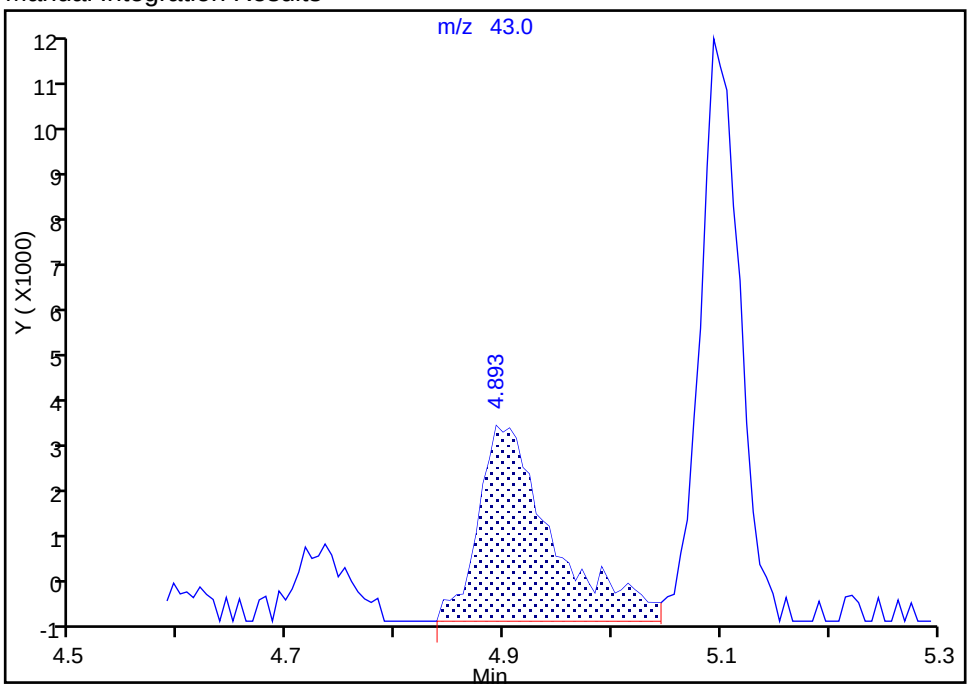
Processing Integration Results

RT: 4.89
Area: 15676
Amount: 55.039193
Amount Units: ug/kg



Manual Integration Results

RT: 4.89
Area: 17812
Amount: 61.484823
Amount Units: ug/kg



Reviewer: cwiklinc, 20-Jul-2017 14:39:25
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

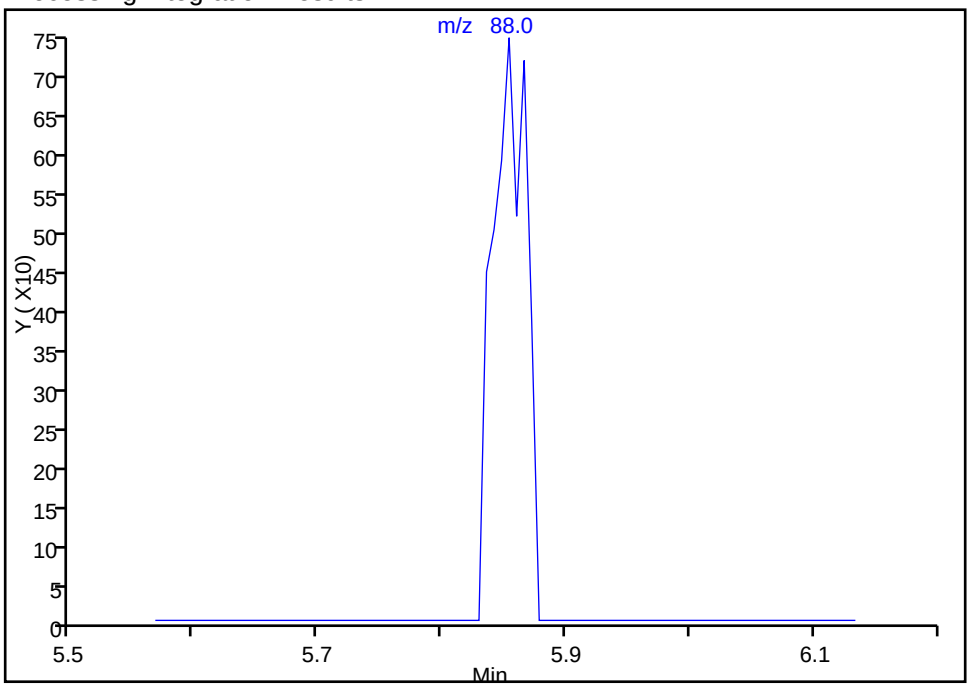
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Injection Date: 20-Jul-2017 11:43:30 Instrument ID: HP5973F
Lims ID: IC
Client ID:
Operator ID: CDC ALS Bottle#: 2 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: F-8260 SOIL Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

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

Signal: 1

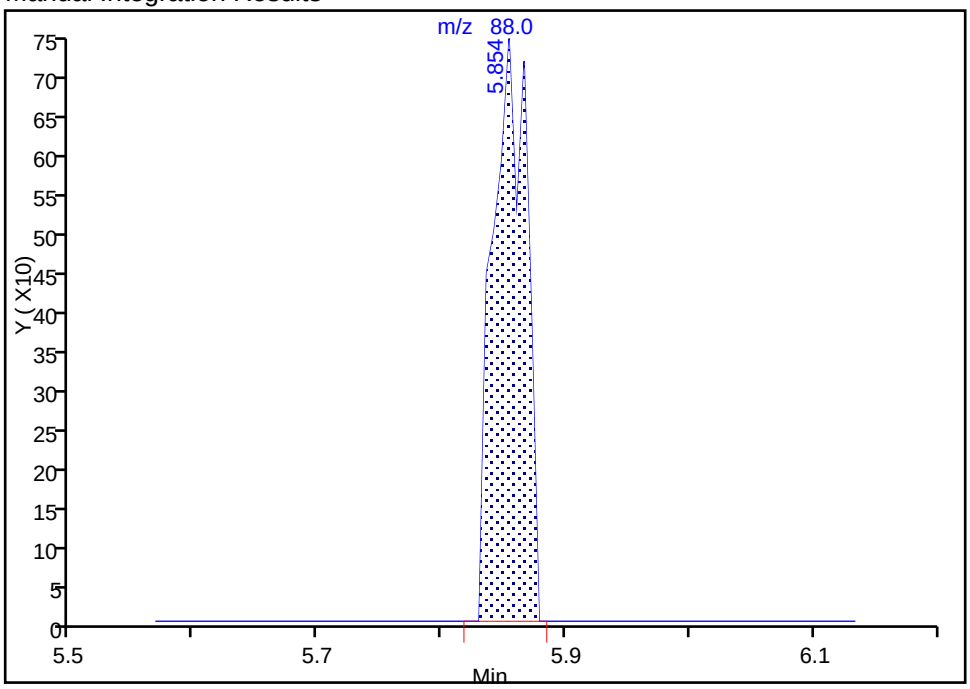
Not Detected
Expected RT: 5.84

Processing Integration Results



Manual Integration Results

RT: 5.85
Area: 1419
Amount: 49.442167
Amount Units: ug/kg



Reviewer: cwiklinc, 20-Jul-2017 14:39:37
Audit Action: Assigned Compound ID Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

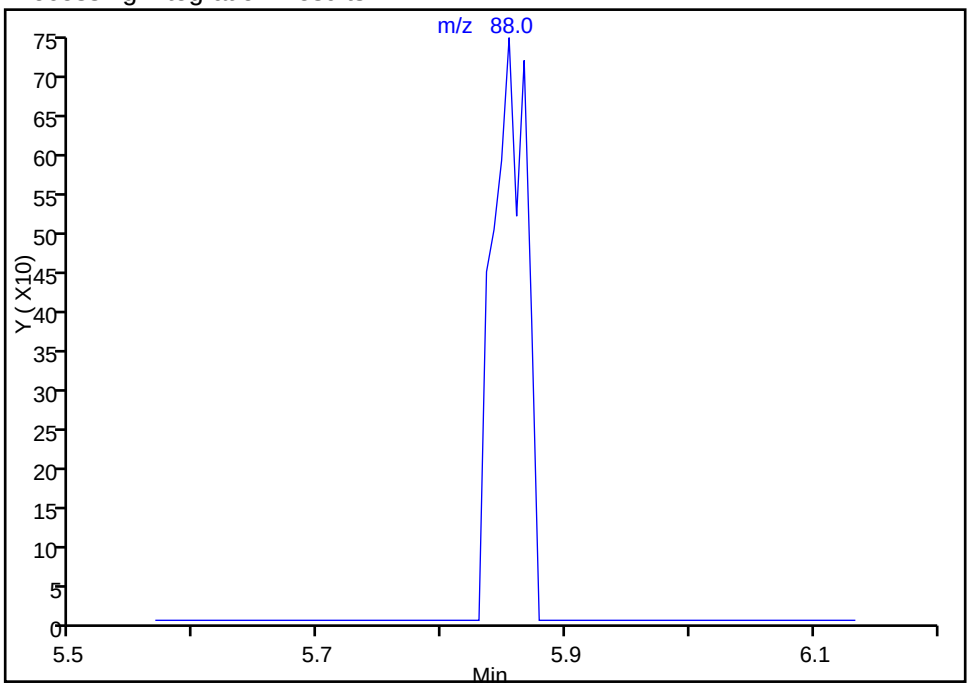
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Injection Date: 20-Jul-2017 11:43:30 Instrument ID: HP5973F
Lims ID: IC
Client ID:
Operator ID: CDC ALS Bottle#: 2 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: F-8260 SOIL Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

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

Signal: 1

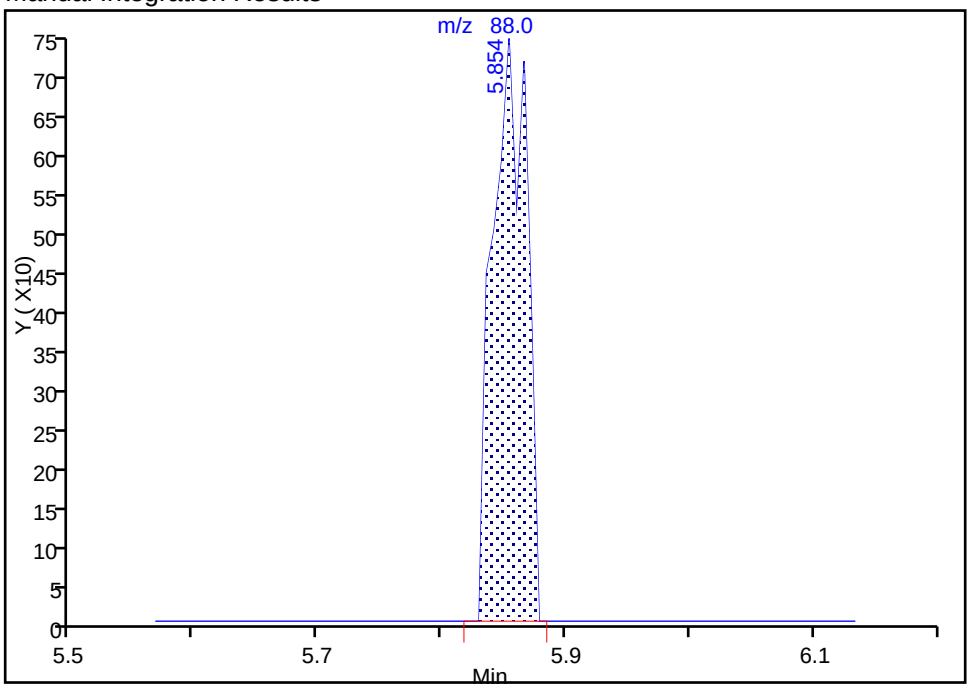
Not Detected
Expected RT: 5.84

Processing Integration Results



Manual Integration Results

RT: 5.85
Area: 1419
Amount: 49.442167
Amount Units: ug/kg



Reviewer: cwiklinc, 20-Jul-2017 14:39:47
Audit Action: Manually Integrated Audit Reason: Assign Peak

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20170720-64196.b\F6327.D
Lims ID: IC 2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 20-Jul-2017 12:09:30 ALS Bottle#: 3 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 2
Misc. Info.: 480-0064196-005
Operator ID: CDC Instrument ID: HP5973F
Sublist: chrom-F-8260 SOIL*sub27

Method: \\ChromNA\Buffalo\ChromData\HP5973F\20170720-64196.b\F-8260 SOIL.m
Limit Group: MV - 8260C ICAL
Last Update: 21-Jul-2017 07:11:26 Calib Date: 20-Jul-2017 17:41:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973F\20170720-64196.b\F6340.D

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

First Level Reviewer: cwiklinc Date: 20-Jul-2017 14:16:29

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
* 153 Fluorobenzene (IS)	70	5.209	5.215	-0.006	98	242333	50.0	50.0	
* 2 Chlorobenzene-d5	82	8.013	8.014	-0.001	88	503526	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.380	10.380	0.000	96	491786	50.0	50.0	
$ 154 Dibromofluoromethane (Surr	113	4.692	4.698	-0.006	93	319194	50.0	50.2	
$ 4 1,2-Dichloroethane-d4 (Sur	67	4.972	4.978	-0.006	0	207716	50.0	50.5	
$ 5 Toluene-d8 (Surr)	98	6.578	6.578	0.000	94	1167924	50.0	49.1	
$ 6 4-Bromofluorobenzene (Surr	174	9.242	9.243	0.000	92	389165	50.0	48.3	
10 Dichlorodifluoromethane	85	1.820	1.827	-0.007	99	38568	5.00	5.12	
12 Chloromethane	50	1.936	1.954	-0.018	99	34514	5.00	5.46	
13 Vinyl chloride	62	2.046	2.064	-0.018	98	30846	5.00	5.14	
151 Butadiene	54	2.064	2.076	-0.012	88	29166	5.00	5.38	
14 Bromomethane	94	2.319	2.338	-0.019	93	11859	5.00	5.61	
15 Chloroethane	64	2.404	2.417	-0.013	98	14103	5.00	6.01	
16 Dichlorofluoromethane	67	2.557	2.569	-0.012	97	39235	5.00	5.57	
17 Trichlorofluoromethane	101	2.593	2.605	-0.012	97	42359	5.00	5.45	
18 Ethyl ether	59	2.776	2.788	-0.012	88	19995	5.00	5.00	
20 Acrolein	56	2.934	2.934	0.000	99	25426	25.0	25.4	
21 1,1,2-Trichloro-1,2,2-trif	101	2.964	2.970	-0.006	93	32193	5.00	4.96	
22 1,1-Dichloroethene	96	2.988	2.995	-0.007	95	28261	5.00	4.81	
23 Acetone	43	3.043	3.049	-0.006	99	64131	25.0	29.1	
25 Iodomethane	142	3.141	3.147	-0.006	99	60119	5.00	4.94	
26 Carbon disulfide	76	3.195	3.195	0.000	100	127676	5.00	6.01	
27 Methyl acetate	43	3.256	3.256	0.000	96	112960	25.0	26.3	
28 3-Chloro-1-propene	41	3.256	3.262	-0.006	75	52660	5.00	5.45	
30 Methylene Chloride	84	3.360	3.372	-0.012	89	40319	5.00	4.79	
31 2-Methyl-2-propanol	59	3.426	3.427	-0.001	94	37410	50.0	51.0	
32 Methyl tert-butyl ether	73	3.518	3.518	0.000	95	97766	5.00	4.98	
34 trans-1,2-Dichloroethene	96	3.548	3.554	-0.006	98	34882	5.00	5.18	
33 Acrylonitrile	53	3.566	3.567	-0.001	97	111382	50.0	52.5	
35 Hexane	57	3.682	3.688	-0.006	92	49518	5.00	5.18	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
37 Vinyl acetate	43	3.858	3.865	-0.007	98	105324	10.0	9.99	
39 1,1-Dichloroethane	63	3.877	3.877	0.000	96	59704	5.00	5.07	
43 2-Butanone (MEK)	43	4.315	4.309	0.006	95	69657	25.0	24.8	
44 2,2-Dichloropropane	77	4.309	4.309	0.000	69	49602	5.00	4.82	
45 cis-1,2-Dichloroethene	96	4.321	4.321	0.000	83	37435	5.00	5.03	
48 Chlorobromomethane	128	4.522	4.522	0.000	93	18214	5.00	5.15	
49 Tetrahydrofuran	42	4.546	4.546	0.000	53	18159	10.0	10.3	
50 Chloroform	83	4.558	4.558	0.000	94	63146	5.00	5.08	
51 1,1,1-Trichloroethane	97	4.698	4.704	-0.006	95	52846	5.00	4.91	
52 Cyclohexane	56	4.728	4.729	0.000	90	55068	5.00	5.27	
54 1,1-Dichloropropene	75	4.820	4.820	0.000	93	46387	5.00	5.11	
55 Carbon tetrachloride	117	4.832	4.832	0.000	73	36731	5.00	4.47	
53 Isobutyl alcohol	43	4.893	4.887	0.006	93	33664	125.0	117.9	
57 Benzene	78	5.002	5.002	0.000	96	127402	5.00	5.07	
58 1,2-Dichloroethane	62	5.033	5.039	-0.006	95	52909	5.00	5.07	
59 n-Heptane	43	5.093	5.100	-0.007	90	50297	5.00	5.33	
62 Trichloroethene	95	5.519	5.519	0.000	95	34946	5.00	5.00	
64 Methylcyclohexane	83	5.647	5.653	-0.006	90	57382	5.00	4.84	
65 1,2-Dichloropropane	63	5.732	5.738	-0.006	92	30688	5.00	4.92	
66 1,4-Dioxane	88	5.860	5.842	0.018	69	4367	100.0	88.4	
67 Dibromomethane	93	5.866	5.866	0.000	96	21196	5.00	4.90	
68 Dichlorobromomethane	83	5.976	5.976	0.000	98	36028	5.00	4.56	
69 2-Chloroethyl vinyl ether	63	6.182	6.189	-0.007	92	17359	5.00	4.76	
72 cis-1,3-Dichloropropene	75	6.353	6.353	0.000	94	48096	5.00	4.74	
73 4-Methyl-2-pentanone (MIBK	43	6.456	6.456	0.000	96	146175	25.0	25.4	
74 Toluene	92	6.645	6.645	0.000	98	90464	5.00	5.43	
75 Ethyl methacrylate	69	6.870	6.870	0.000	91	37872	5.00	4.68	
77 trans-1,3-Dichloropropene	75	6.870	6.870	0.000	97	40926	5.00	4.39	
79 1,1,2-Trichloroethane	83	7.058	7.065	-0.007	93	23009	5.00	4.87	
81 Tetrachloroethene	166	7.162	7.162	0.000	95	38247	5.00	5.03	
82 1,3-Dichloropropane	76	7.223	7.223	0.000	92	48314	5.00	4.84	
80 2-Hexanone	43	7.253	7.241	0.012	96	106561	25.0	25.6	
83 Chlorodibromomethane	129	7.466	7.466	0.000	91	20297	5.00	5.84	
84 Ethylene Dibromide	107	7.594	7.594	0.000	99	27346	5.00	4.71	
87 Chlorobenzene	112	8.044	8.044	0.000	93	92057	5.00	5.03	
88 Ethylbenzene	91	8.111	8.111	0.000	99	159616	5.00	5.25	
89 1,1,1,2-Tetrachloroethane	131	8.123	8.123	0.000	90	25613	5.00	4.34	
90 m-Xylene & p-Xylene	106	8.226	8.227	-0.001	99	62664	5.00	5.10	
91 o-Xylene	106	8.658	8.658	0.000	97	59554	5.00	4.95	
92 Styrene	104	8.677	8.677	0.000	94	104059	5.00	5.09	
95 Bromoform	173	8.944	8.951	-0.006	93	9976	5.00	6.45	
94 Isopropylbenzene	105	9.023	9.024	-0.001	96	156677	5.00	5.20	
101 Bromobenzene	156	9.413	9.413	0.000	92	41628	5.00	5.08	
97 1,1,2,2-Tetrachloroethane	83	9.407	9.413	-0.006	75	34885	5.00	4.99	
99 N-Propylbenzene	91	9.461	9.455	0.006	98	185477	5.00	5.28	
98 trans-1,4-Dichloro-2-buten	53	9.461	9.455	0.006	41	10873	5.00	5.03	
100 1,2,3-Trichloropropane	110	9.461	9.462	-0.001	52	12440	5.00	5.24	
103 2-Chlorotoluene	126	9.589	9.589	0.000	95	36028	5.00	4.99	
102 1,3,5-Trimethylbenzene	105	9.626	9.626	0.000	94	132707	5.00	5.11	
105 4-Chlorotoluene	126	9.693	9.693	0.000	99	39427	5.00	5.19	
106 tert-Butylbenzene	134	9.954	9.954	0.000	92	29380	5.00	4.90	
107 1,2,4-Trimethylbenzene	105	10.009	10.009	0.000	97	140625	5.00	5.25	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
109 sec-Butylbenzene	105	10.161	10.161	0.000	95	169181	5.00	5.16	
110 4-Isopropyltoluene	119	10.289	10.289	0.000	96	140952	5.00	5.05	
111 1,3-Dichlorobenzene	146	10.319	10.319	0.000	97	81695	5.00	5.17	
113 1,4-Dichlorobenzene	146	10.404	10.404	0.000	94	80773	5.00	5.07	
115 n-Butylbenzene	91	10.666	10.666	0.000	98	131400	5.00	5.09	
116 1,2-Dichlorobenzene	146	10.751	10.751	0.000	96	76614	5.00	5.09	
117 1,2-Dibromo-3-Chloropropan	75	11.439	11.439	0.000	77	5533	5.00	4.14	
119 1,2,4-Trichlorobenzene	180	12.071	12.071	0.000	93	51068	5.00	4.96	
120 Hexachlorobutadiene	225	12.169	12.169	0.000	96	29420	5.00	4.85	
121 Naphthalene	128	12.290	12.290	0.000	97	111845	5.00	4.95	
122 1,2,3-Trichlorobenzene	180	12.497	12.497	0.000	94	45872	5.00	4.87	
S 125 1,2-Dichloroethene, Total	1				0			10.2	
S 126 1,3-Dichloropropene, Total	1				0			9.13	
S 123 Total BTEX	1				0			25.8	
S 124 Xylenes, Total	1				0			10.1	

Reagents:

8260 CORP mix_00103	Amount Added:	5.00	Units: uL	
GAS CORP mix_00230	Amount Added:	5.00	Units: uL	
F 8260 SURR_00239	Amount Added:	1.00	Units: uL	Run Reagent
F 8260 IS_00556	Amount Added:	1.00	Units: uL	Run Reagent

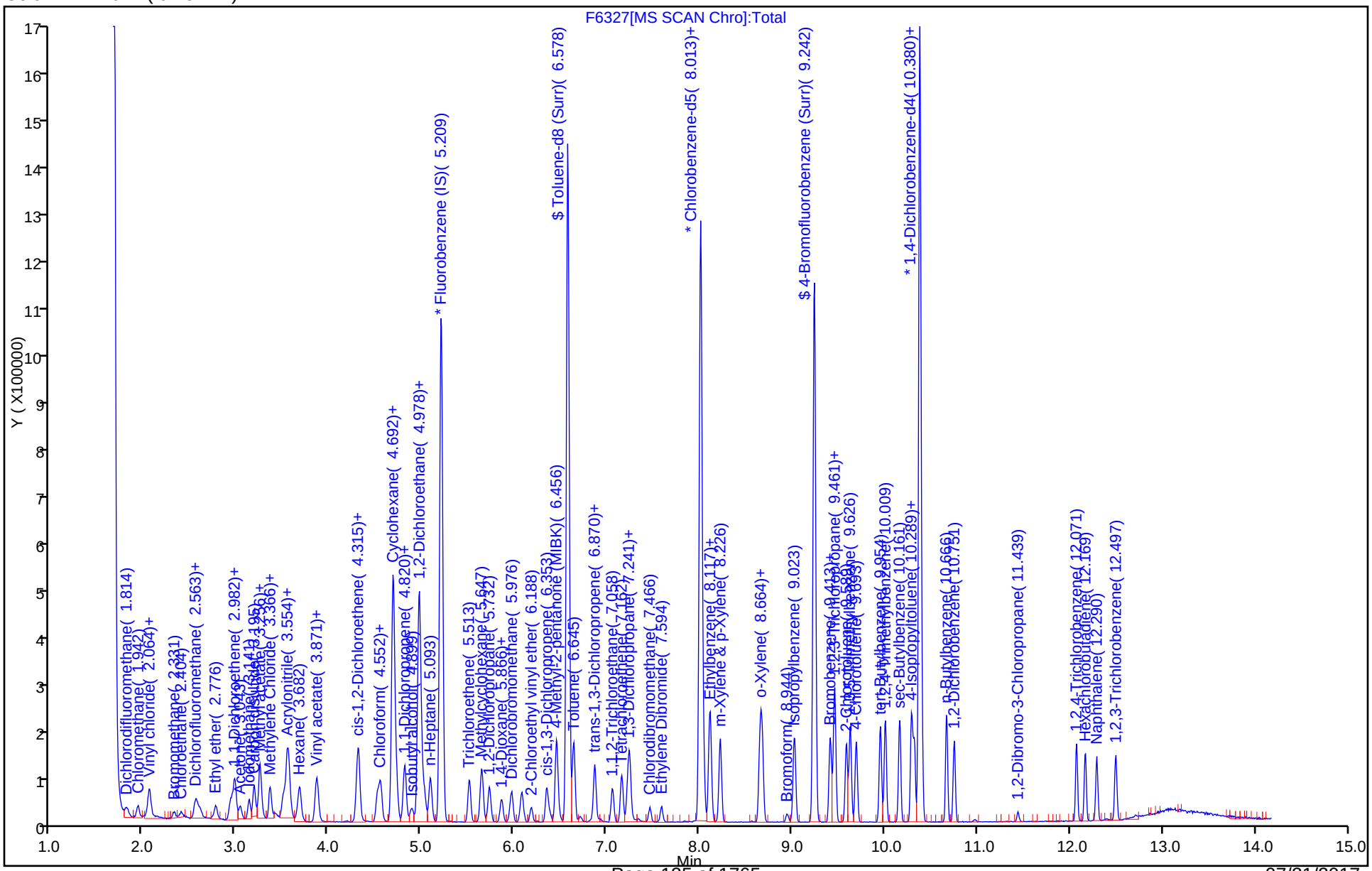
Report Date: 21-Jul-2017 07:11:27 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20170720-64196.b\F6327.D

Injection Date:	20-Jul-2017 12:09:30	Instrument ID:	HP5973F	Operator ID:	CDC
Lims ID:	IC 2			Worklist Smp#:	5
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20170720-64196.b\F6328.D
Lims ID: IC 3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 20-Jul-2017 12:34:30 ALS Bottle#: 4 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 3
Misc. Info.: 480-0064196-006
Operator ID: CDC Instrument ID: HP5973F
Sublist: chrom-F-8260 SOIL*sub27

Method: \\ChromNA\Buffalo\ChromData\HP5973F\20170720-64196.b\F-8260 SOIL.m
Limit Group: MV - 8260C ICAL
Last Update: 21-Jul-2017 07:11:28 Calib Date: 20-Jul-2017 17:41:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973F\20170720-64196.b\F6340.D

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

First Level Reviewer: cwiklinc Date: 20-Jul-2017 14:55:18

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
* 153 Fluorobenzene (IS)	70	5.215	5.215	0.000	98	243947	50.0	50.0	
* 2 Chlorobenzene-d5	82	8.014	8.014	0.000	87	504037	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.380	10.380	0.000	96	499000	50.0	50.0	
$ 154 Dibromofluoromethane (Surr	113	4.692	4.698	-0.006	92	319033	50.0	49.8	
$ 4 1,2-Dichloroethane-d4 (Sur	67	4.972	4.978	-0.006	0	206878	50.0	49.9	
$ 5 Toluene-d8 (Surr)	98	6.578	6.578	0.000	93	1172619	50.0	49.3	
$ 6 4-Bromofluorobenzene (Surr	174	9.243	9.243	0.001	89	397567	50.0	49.3	
10 Dichlorodifluoromethane	85	1.814	1.827	-0.013	98	77845	10.0	10.3	
12 Chloromethane	50	1.942	1.954	-0.012	99	65856	10.0	10.4	
13 Vinyl chloride	62	2.052	2.064	-0.012	98	63671	10.0	10.5	
151 Butadiene	54	2.070	2.076	-0.006	93	57097	10.0	10.5	
14 Bromomethane	94	2.326	2.338	-0.012	91	22568	10.0	10.6	
15 Chloroethane	64	2.405	2.417	-0.012	97	19642	10.0	9.00	
16 Dichlorofluoromethane	67	2.563	2.569	-0.006	97	73065	10.0	10.3	
17 Trichlorofluoromethane	101	2.593	2.605	-0.012	97	80778	10.0	10.3	
18 Ethyl ether	59	2.776	2.788	-0.012	90	39616	10.0	9.83	
20 Acrolein	56	2.934	2.934	0.000	97	52261	50.0	51.9	
21 1,1,2-Trichloro-1,2,2-trif	101	2.964	2.970	-0.006	93	67180	10.0	10.3	
22 1,1-Dichloroethene	96	2.989	2.995	-0.006	97	61418	10.0	10.4	
23 Acetone	43	3.043	3.049	-0.006	99	108751	50.0	49.1	
25 Iodomethane	142	3.141	3.147	-0.006	100	125906	10.0	10.3	
26 Carbon disulfide	76	3.195	3.195	0.000	100	228931	10.0	10.7	
27 Methyl acetate	43	3.262	3.256	0.006	95	216780	50.0	50.1	
28 3-Chloro-1-propene	41	3.256	3.262	-0.006	77	101676	10.0	10.5	
30 Methylene Chloride	84	3.366	3.372	-0.006	92	74824	10.0	10.0	
31 2-Methyl-2-propanol	59	3.427	3.427	0.000	91	73099	100.0	98.9	
32 Methyl tert-butyl ether	73	3.524	3.518	0.006	94	198768	10.0	10.1	
34 trans-1,2-Dichloroethene	96	3.554	3.554	0.000	97	70303	10.0	10.4	
33 Acrylonitrile	53	3.567	3.567	0.000	98	215024	100.0	100.7	
35 Hexane	57	3.682	3.688	-0.006	93	100119	10.0	10.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
37 Vinyl acetate	43	3.865	3.865	0.000	98	213366	20.0	20.1	
39 1,1-Dichloroethane	63	3.877	3.877	0.000	96	120814	10.0	10.2	
44 2,2-Dichloropropane	77	4.309	4.309	0.000	90	107293	10.0	10.4	
43 2-Butanone (MEK)	43	4.309	4.309	0.000	97	144926	50.0	51.3	
45 cis-1,2-Dichloroethene	96	4.321	4.321	0.000	83	76121	10.0	10.2	
48 Chlorobromomethane	128	4.522	4.522	0.000	93	35175	10.0	9.87	
49 Tetrahydrofuran	42	4.546	4.546	0.000	82	35610	20.0	20.1	
50 Chloroform	83	4.558	4.558	0.000	94	126428	10.0	10.1	
51 1,1,1-Trichloroethane	97	4.698	4.704	-0.006	55	109691	10.0	10.1	
52 Cyclohexane	56	4.729	4.729	0.001	90	108917	10.0	10.4	
54 1,1-Dichloropropene	75	4.814	4.820	-0.006	95	94629	10.0	10.4	
55 Carbon tetrachloride	117	4.826	4.832	-0.006	97	78546	10.0	9.50	
53 Isobutyl alcohol	43	4.899	4.887	0.012	88	67186	250.0	233.8	
57 Benzene	78	5.002	5.002	0.000	95	263571	10.0	10.4	
58 1,2-Dichloroethane	62	5.033	5.039	-0.006	96	104633	10.0	9.95	
59 n-Heptane	43	5.094	5.100	-0.006	88	98499	10.0	10.4	
62 Trichloroethene	95	5.519	5.519	0.000	94	72088	10.0	10.2	
64 Methylcyclohexane	83	5.647	5.653	-0.006	90	123025	10.0	10.3	
65 1,2-Dichloropropane	63	5.732	5.738	-0.006	90	62184	10.0	9.91	
66 1,4-Dioxane	88	5.848	5.842	0.006	83	12977	200.0	202.5	
67 Dibromomethane	93	5.860	5.866	-0.006	96	43988	10.0	10.1	
68 Dichlorobromomethane	83	5.976	5.976	0.000	98	75075	10.0	9.43	
69 2-Chloroethyl vinyl ether	63	6.183	6.189	-0.007	94	36326	10.0	9.90	
72 cis-1,3-Dichloropropene	75	6.353	6.353	0.000	95	98100	10.0	9.60	
73 4-Methyl-2-pentanone (MIBK	43	6.456	6.456	0.000	96	292317	50.0	50.7	
74 Toluene	92	6.645	6.645	0.000	98	170625	10.0	10.2	
77 trans-1,3-Dichloropropene	75	6.870	6.870	0.000	96	89290	10.0	9.58	
75 Ethyl methacrylate	69	6.876	6.870	0.006	89	79191	10.0	9.78	
79 1,1,2-Trichloroethane	83	7.059	7.065	-0.006	93	47365	10.0	10.0	
81 Tetrachloroethene	166	7.162	7.162	0.000	95	76074	10.0	10.0	
82 1,3-Dichloropropane	76	7.223	7.223	0.000	94	98578	10.0	9.87	
80 2-Hexanone	43	7.247	7.241	0.006	95	211612	50.0	50.8	
83 Chlorodibromomethane	129	7.466	7.466	0.000	89	44373	10.0	9.45	
84 Ethylene Dibromide	107	7.588	7.594	-0.006	96	56670	10.0	9.75	
87 Chlorobenzene	112	8.044	8.044	0.000	94	184551	10.0	10.1	
88 Ethylbenzene	91	8.111	8.111	0.000	98	319166	10.0	10.5	
89 1,1,1,2-Tetrachloroethane	131	8.123	8.123	0.000	90	53910	10.0	9.12	
90 m-Xylene & p-Xylene	106	8.227	8.227	0.000	99	125749	10.0	10.2	
91 o-Xylene	106	8.659	8.658	0.001	95	119941	10.0	9.97	
92 Styrene	104	8.677	8.677	0.000	93	209786	10.0	10.2	
95 Bromoform	173	8.951	8.951	0.001	95	23164	10.0	9.45	
94 Isopropylbenzene	105	9.024	9.024	0.000	96	317727	10.0	10.4	
97 1,1,2,2-Tetrachloroethane	83	9.413	9.413	0.000	74	72052	10.0	10.2	
101 Bromobenzene	156	9.413	9.413	0.000	94	83823	10.0	10.1	
98 trans-1,4-Dichloro-2-buten	53	9.455	9.455	0.000	64	20837	10.0	9.50	
99 N-Propylbenzene	91	9.455	9.455	0.000	98	375418	10.0	10.5	
100 1,2,3-Trichloropropane	110	9.462	9.462	0.000	85	24094	10.0	10.0	
103 2-Chlorotoluene	126	9.583	9.589	-0.006	96	75216	10.0	10.3	
102 1,3,5-Trimethylbenzene	105	9.626	9.626	0.000	93	274822	10.0	10.4	
105 4-Chlorotoluene	126	9.699	9.693	0.006	98	78776	10.0	10.2	
106 tert-Butylbenzene	134	9.948	9.954	-0.006	91	62233	10.0	10.2	
107 1,2,4-Trimethylbenzene	105	10.009	10.009	0.000	97	277170	10.0	10.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
109 sec-Butylbenzene	105	10.161	10.161	0.000	95	349523	10.0	10.5	
110 4-Isopropyltoluene	119	10.289	10.289	0.000	95	296347	10.0	10.5	
111 1,3-Dichlorobenzene	146	10.319	10.319	0.000	97	162976	10.0	10.2	
113 1,4-Dichlorobenzene	146	10.405	10.404	0.000	95	162620	10.0	10.1	
115 n-Butylbenzene	91	10.672	10.666	0.006	97	278206	10.0	10.6	
116 1,2-Dichlorobenzene	146	10.751	10.751	0.000	96	153047	10.0	10.0	
117 1,2-Dibromo-3-Chloropropan	75	11.439	11.439	0.000	80	11772	10.0	8.69	
119 1,2,4-Trichlorobenzene	180	12.071	12.071	0.000	94	105428	10.0	10.1	
120 Hexachlorobutadiene	225	12.163	12.169	-0.006	97	63386	10.0	10.3	
121 Naphthalene	128	12.290	12.290	0.000	97	230027	10.0	10.0	
122 1,2,3-Trichlorobenzene	180	12.497	12.497	0.000	95	97765	10.0	10.2	
S 123 Total BTEX	1				0			51.3	
S 124 Xylenes, Total	1				0			20.2	
S 125 1,2-Dichloroethene, Total	1				0			20.5	
S 126 1,3-Dichloropropene, Total	1				0			19.2	

Reagents:

8260 CORP mix_00103	Amount Added: 10.00	Units: uL	
GAS CORP mix_00230	Amount Added: 10.00	Units: uL	
F 8260 SURR_00239	Amount Added: 1.00	Units: uL	Run Reagent
F 8260 IS_00556	Amount Added: 1.00	Units: uL	Run Reagent

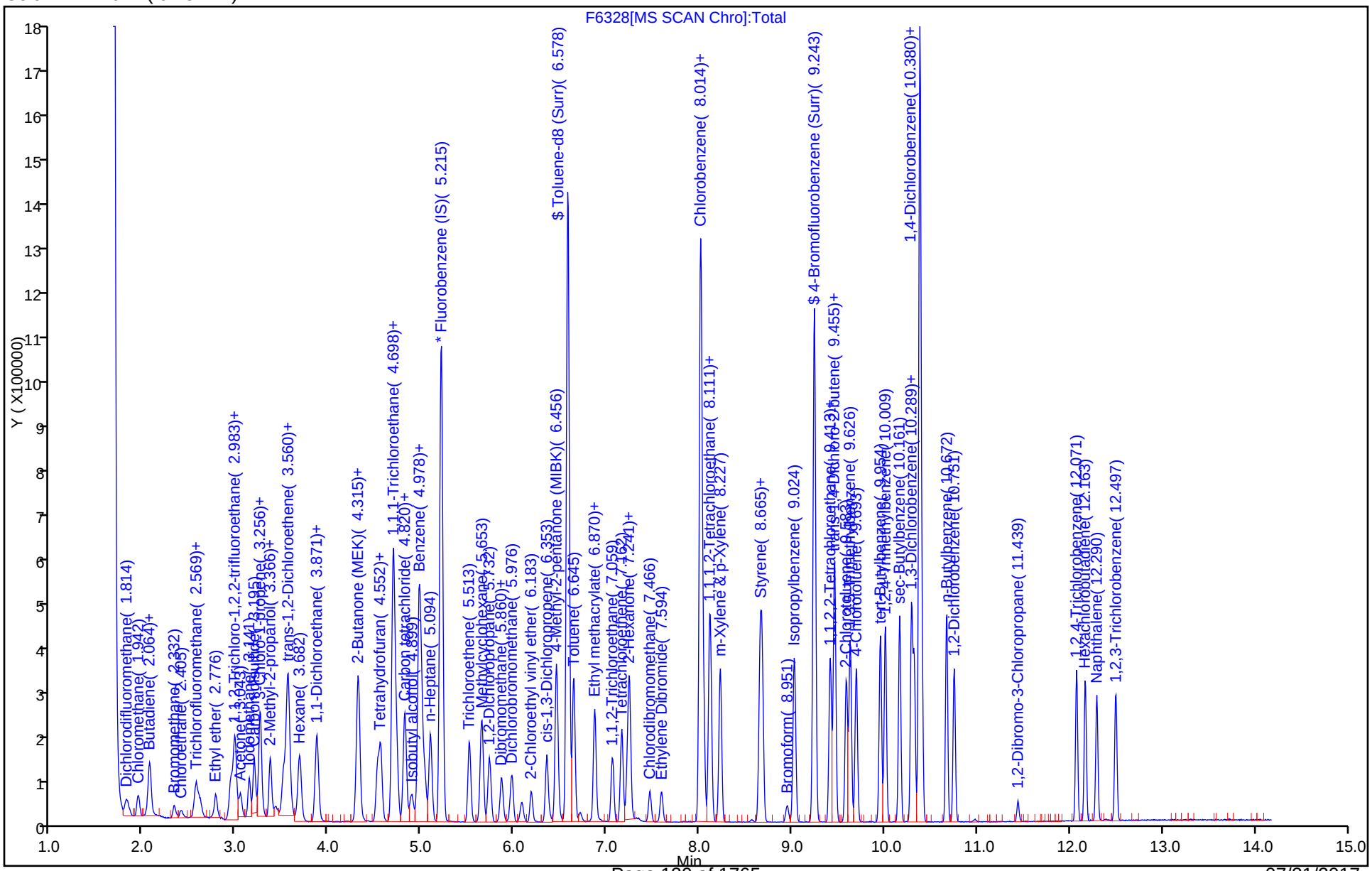
Report Date: 21-Jul-2017 07:11:30 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20170720-64196.b\F6328.D

Injection Date:	20-Jul-2017 12:34:30	Instrument ID:	HP5973F	Operator ID:	CDC
Lims ID:	IC 3			Worklist Smp#:	6
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20170720-64196.b\F6329.D
Lims ID: IC 4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 20-Jul-2017 13:00:30 ALS Bottle#: 5 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 4
Misc. Info.: 480-0064196-007
Operator ID: CDC Instrument ID: HP5973F
Sublist: chrom-F-8260 SOIL*sub27

Method: \\ChromNA\Buffalo\ChromData\HP5973F\20170720-64196.b\F-8260 SOIL.m
Limit Group: MV - 8260C ICAL
Last Update: 21-Jul-2017 07:11:31 Calib Date: 20-Jul-2017 17:41:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973F\20170720-64196.b\F6340.D

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

First Level Reviewer: cwiklinc Date: 20-Jul-2017 15:45:14

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
* 153 Fluorobenzene (IS)	70	5.215	5.215	0.000	98	244845	50.0	50.0	
* 2 Chlorobenzene-d5	82	8.014	8.014	0.000	88	501391	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.380	10.380	0.000	95	510993	50.0	50.0	
$ 154 Dibromofluoromethane (Surr	113	4.698	4.698	0.000	93	323454	50.0	50.3	
$ 4 1,2-Dichloroethane-d4 (Sur	67	4.978	4.978	0.000	0	208278	50.0	50.1	
$ 5 Toluene-d8 (Surr)	98	6.584	6.578	0.006	93	1189593	50.0	50.2	
$ 6 4-Bromofluorobenzene (Surr	174	9.243	9.243	0.000	89	404014	50.0	50.3	
10 Dichlorodifluoromethane	85	1.827	1.827	0.000	99	155081	20.0	20.4	
12 Chloromethane	50	1.954	1.954	0.000	99	127472	20.0	20.0	
13 Vinyl chloride	62	2.064	2.064	0.000	98	122408	20.0	20.2	
151 Butadiene	54	2.076	2.076	0.000	90	110638	20.0	20.2	
14 Bromomethane	94	2.344	2.338	0.006	89	41218	20.0	19.3	
15 Chloroethane	64	2.417	2.417	0.000	98	37981	20.0	19.0	
16 Dichlorofluoromethane	67	2.563	2.569	-0.006	97	139336	20.0	19.6	
17 Trichlorofluoromethane	101	2.599	2.605	-0.006	97	154383	20.0	19.7	
18 Ethyl ether	59	2.788	2.788	0.000	89	85113	20.0	21.0	
20 Acrolein	56	2.940	2.934	0.006	99	100234	100.0	99.1	
21 1,1,2-Trichloro-1,2,2-trif	101	2.970	2.970	0.000	93	138081	20.0	21.1	
22 1,1-Dichloroethene	96	2.995	2.995	0.000	97	126090	20.0	21.2	
23 Acetone	43	3.049	3.049	0.000	99	228705	100.0	102.8	
25 Iodomethane	142	3.147	3.147	0.000	99	251515	20.0	20.5	
26 Carbon disulfide	76	3.202	3.195	0.007	99	440604	20.0	20.5	
27 Methyl acetate	43	3.262	3.256	0.006	95	432895	100.0	99.7	
28 3-Chloro-1-propene	41	3.262	3.262	0.000	77	204336	20.0	20.9	
30 Methylene Chloride	84	3.372	3.372	0.000	91	147807	20.0	21.1	
31 2-Methyl-2-propanol	59	3.427	3.427	0.000	99	144732	200.0	195.1	
32 Methyl tert-butyl ether	73	3.524	3.518	0.006	95	408164	20.0	20.6	
34 trans-1,2-Dichloroethene	96	3.554	3.554	0.000	97	139110	20.0	20.4	
33 Acrylonitrile	53	3.573	3.567	0.006	99	434187	200.0	202.6	
35 Hexane	57	3.688	3.688	0.000	92	203396	20.0	21.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
37 Vinyl acetate	43	3.865	3.865	0.000	97	441380	40.0	41.4	
39 1,1-Dichloroethane	63	3.877	3.877	0.000	97	245036	20.0	20.6	
43 2-Butanone (MEK)	43	4.315	4.309	0.006	98	287478	100.0	101.4	
44 2,2-Dichloropropane	77	4.315	4.309	0.006	78	214283	20.0	20.6	
45 cis-1,2-Dichloroethene	96	4.321	4.321	0.000	83	155990	20.0	20.7	
48 Chlorobromomethane	128	4.528	4.522	0.006	95	73027	20.0	20.4	
49 Tetrahydrofuran	42	4.546	4.546	0.000	85	69477	40.0	39.0	
50 Chloroform	83	4.564	4.558	0.006	94	256544	20.0	20.4	
51 1,1,1-Trichloroethane	97	4.704	4.704	0.000	97	220696	20.0	20.3	
52 Cyclohexane	56	4.735	4.729	0.007	90	221619	20.0	21.0	
54 1,1-Dichloropropene	75	4.820	4.820	0.000	95	190958	20.0	20.8	
55 Carbon tetrachloride	117	4.832	4.832	0.000	96	164876	20.0	19.9	
53 Isobutyl alcohol	43	4.899	4.887	0.012	93	140420	500.0	486.8	
57 Benzene	78	5.002	5.002	0.000	97	520586	20.0	20.5	
58 1,2-Dichloroethane	62	5.039	5.039	0.000	97	215143	20.0	20.4	
59 n-Heptane	43	5.100	5.100	0.000	90	204161	20.0	21.4	
62 Trichloroethene	95	5.519	5.519	0.000	95	143085	20.0	20.2	
64 Methylcyclohexane	83	5.653	5.653	0.000	89	245784	20.0	20.5	
65 1,2-Dichloropropane	63	5.738	5.738	0.000	91	130413	20.0	20.7	
66 1,4-Dioxane	88	5.842	5.842	0.000	91	29534	400.0	423.9	
67 Dibromomethane	93	5.866	5.866	0.000	94	89319	20.0	20.4	
68 Dichlorobromomethane	83	5.976	5.976	0.000	99	163947	20.0	20.5	
69 2-Chloroethyl vinyl ether	63	6.189	6.189	0.000	93	73434	20.0	19.9	
72 cis-1,3-Dichloropropene	75	6.353	6.353	0.000	95	208493	20.0	20.3	
73 4-Methyl-2-pentanone (MIBK	43	6.456	6.456	0.000	95	587035	100.0	102.4	
74 Toluene	92	6.645	6.645	0.000	98	342202	20.0	20.6	
75 Ethyl methacrylate	69	6.876	6.870	0.006	87	166076	20.0	20.6	
77 trans-1,3-Dichloropropene	75	6.870	6.870	0.000	98	192671	20.0	20.8	
79 1,1,2-Trichloroethane	83	7.059	7.065	-0.007	93	96346	20.0	20.5	
81 Tetrachloroethene	166	7.162	7.162	0.000	97	154343	20.0	20.4	
82 1,3-Dichloropropane	76	7.223	7.223	0.000	97	205342	20.0	20.7	
80 2-Hexanone	43	7.247	7.241	0.006	96	422631	100.0	102.0	
83 Chlorodibromomethane	129	7.466	7.466	0.000	88	104294	20.0	18.5	
84 Ethylene Dibromide	107	7.594	7.594	0.000	98	117915	20.0	20.4	
87 Chlorobenzene	112	8.044	8.044	0.000	94	374264	20.0	20.5	
88 Ethylbenzene	91	8.111	8.111	0.000	98	642538	20.0	21.2	
89 1,1,1,2-Tetrachloroethane	131	8.129	8.123	0.006	89	119732	20.0	20.4	
90 m-Xylene & p-Xylene	106	8.227	8.227	0.000	99	252446	20.0	20.6	
91 o-Xylene	106	8.658	8.658	0.000	97	246824	20.0	20.6	
92 Styrene	104	8.677	8.677	0.000	94	426796	20.0	20.9	
95 Bromoform	173	8.951	8.951	0.000	95	55168	20.0	16.8	
94 Isopropylbenzene	105	9.024	9.024	0.000	96	643751	20.0	20.6	
101 Bromobenzene	156	9.413	9.413	0.000	93	173816	20.0	20.4	
97 1,1,2,2-Tetrachloroethane	83	9.413	9.413	0.000	81	147285	20.0	20.3	
99 N-Propylbenzene	91	9.455	9.455	0.000	99	758597	20.0	20.8	
98 trans-1,4-Dichloro-2-buten	53	9.455	9.455	0.000	60	44694	20.0	19.9	
100 1,2,3-Trichloropropane	110	9.462	9.462	0.000	87	48977	20.0	19.8	
103 2-Chlorotoluene	126	9.589	9.589	0.000	96	151537	20.0	20.2	
102 1,3,5-Trimethylbenzene	105	9.632	9.626	0.006	93	558408	20.0	20.7	
105 4-Chlorotoluene	126	9.693	9.693	0.000	99	159413	20.0	20.2	
106 tert-Butylbenzene	134	9.954	9.954	0.000	91	125676	20.0	20.2	
107 1,2,4-Trimethylbenzene	105	10.009	10.009	0.000	97	569033	20.0	20.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
109 sec-Butylbenzene	105	10.161	10.161	0.000	95	704913	20.0	20.7	
110 4-Isopropyltoluene	119	10.289	10.289	0.000	96	597373	20.0	20.6	
111 1,3-Dichlorobenzene	146	10.319	10.319	0.000	97	332702	20.0	20.3	
113 1,4-Dichlorobenzene	146	10.404	10.404	0.000	95	337831	20.0	20.4	
115 n-Butylbenzene	91	10.666	10.666	0.000	98	553836	20.0	20.6	
116 1,2-Dichlorobenzene	146	10.751	10.751	0.000	97	317727	20.0	20.3	
117 1,2-Dibromo-3-Chloropropan	75	11.439	11.439	0.000	80	25376	20.0	18.3	
119 1,2,4-Trichlorobenzene	180	12.071	12.071	0.000	94	218779	20.0	20.5	
120 Hexachlorobutadiene	225	12.169	12.169	0.000	98	127165	20.0	20.2	
121 Naphthalene	128	12.290	12.290	0.000	97	482362	20.0	20.5	
122 1,2,3-Trichlorobenzene	180	12.497	12.497	0.000	95	201808	20.0	20.6	
S 125 1,2-Dichloroethene, Total	1				0			41.2	
S 126 1,3-Dichloropropene, Total	1				0			41.1	
S 123 Total BTEX	1				0			103.6	
S 124 Xylenes, Total	1				0			41.3	

Reagents:

8260 CORP mix_00103	Amount Added: 10.00	Units: uL	
GAS CORP mix_00230	Amount Added: 10.00	Units: uL	
F 8260 SURR_00239	Amount Added: 1.00	Units: uL	Run Reagent
F 8260 IS_00556	Amount Added: 1.00	Units: uL	Run Reagent

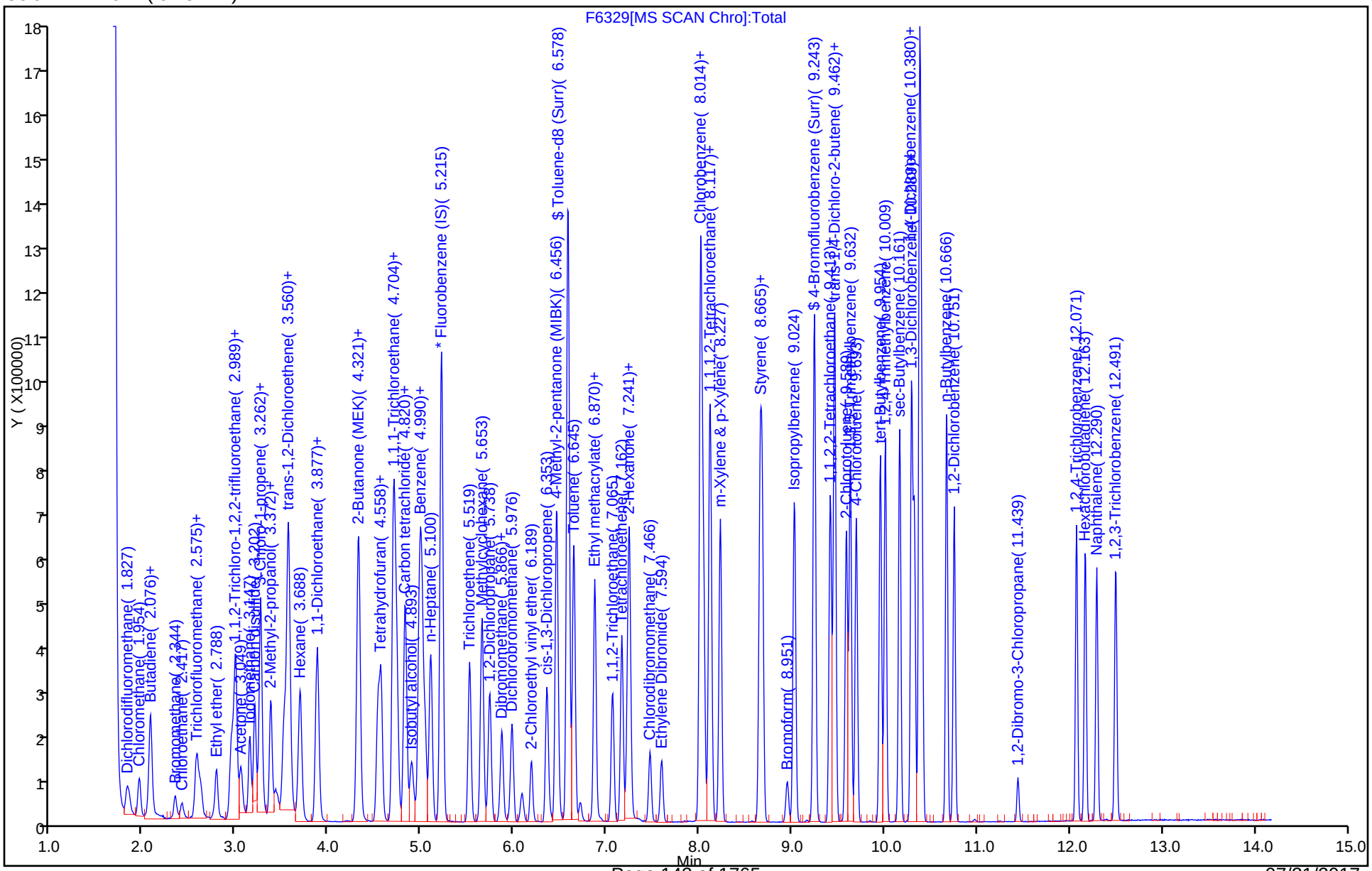
Report Date: 21-Jul-2017 07:11:32 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20170720-64196.b\F6329.D

Injection Date:	20-Jul-2017 13:00:30	Instrument ID:	HP5973F	Operator ID:	CDC
Lims ID:	IC 4			Worklist Smp#:	7
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20170720-64196.b\F6330.D
Lims ID: ICIS 5
Client ID:
Sample Type: ICIS Calib Level: 5
Inject. Date: 20-Jul-2017 13:25:30 ALS Bottle#: 6 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: ICIS 5
Misc. Info.: 480-0064196-008
Operator ID: CDC Instrument ID: HP5973F
Sublist: chrom-F-8260 SOIL*sub27

Method: \\ChromNA\Buffalo\ChromData\HP5973F\20170720-64196.b\F-8260 SOIL.m
Limit Group: MV - 8260C ICAL
Last Update: 21-Jul-2017 07:11:34 Calib Date: 20-Jul-2017 17:41:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973F\20170720-64196.b\F6340.D

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

First Level Reviewer: cwiklinc Date: 20-Jul-2017 14:15:09

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
* 153 Fluorobenzene (IS)	70	5.215	5.215	0.000	98	249699	50.0	50.0	
* 2 Chlorobenzene-d5	82	8.014	8.014	0.000	86	513779	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.380	10.380	0.000	76	521772	50.0	50.0	
$ 154 Dibromofluoromethane (Surr	113	4.698	4.698	0.000	71	328709	50.0	50.2	
$ 4 1,2-Dichloroethane-d4 (Sur	67	4.978	4.978	0.000	0	213748	50.0	50.4	
$ 5 Toluene-d8 (Surr)	98	6.578	6.578	0.000	92	1202239	50.0	49.5	
$ 6 4-Bromofluorobenzene (Surr	174	9.243	9.243	0.000	89	411389	50.0	50.0	
10 Dichlorodifluoromethane	85	1.827	1.827	0.000	87	381744	50.0	49.2	
12 Chloromethane	50	1.954	1.954	0.000	89	311413	50.0	47.8	
13 Vinyl chloride	62	2.064	2.064	0.000	82	301611	50.0	48.7	
151 Butadiene	54	2.076	2.076	0.000	63	265865	50.0	47.6	
14 Bromomethane	94	2.338	2.338	0.000	90	101419	50.0	46.6	
15 Chloroethane	64	2.417	2.417	0.000	94	94116	50.0	48.7	
16 Dichlorofluoromethane	67	2.569	2.569	0.000	82	337337	50.0	46.5	
17 Trichlorofluoromethane	101	2.605	2.605	0.000	87	378988	50.0	47.4	
18 Ethyl ether	59	2.788	2.788	0.000	88	209421	50.0	50.8	
20 Acrolein	56	2.934	2.934	0.000	94	260409	250.0	252.6	
21 1,1,2-Trichloro-1,2,2-trif	101	2.970	2.970	0.000	86	330615	50.0	49.4	
22 1,1-Dichloroethene	96	2.995	2.995	0.000	90	299491	50.0	49.5	
23 Acetone	43	3.049	3.049	0.000	99	577992	250.0	254.8	
25 Iodomethane	142	3.147	3.147	0.000	99	616313	50.0	49.2	
26 Carbon disulfide	76	3.195	3.195	0.000	99	1035466	50.0	47.3	
27 Methyl acetate	43	3.256	3.256	0.000	90	1149993	250.0	259.6	
28 3-Chloro-1-propene	41	3.262	3.262	0.000	47	488969	50.0	49.1	
30 Methylene Chloride	84	3.372	3.372	0.000	80	360148	50.0	52.3	
31 2-Methyl-2-propanol	59	3.427	3.427	0.000	96	414273	500.0	547.6	
32 Methyl tert-butyl ether	73	3.518	3.518	0.000	85	1047101	50.0	51.8	
34 trans-1,2-Dichloroethene	96	3.554	3.554	0.000	77	338014	50.0	48.7	
33 Acrylonitrile	53	3.567	3.567	0.000	97	1141954	500.0	522.6	
35 Hexane	57	3.688	3.688	0.000	89	492855	50.0	50.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
37 Vinyl acetate	43	3.865	3.865	0.000	97	1136990	100.0	104.6	
39 1,1-Dichloroethane	63	3.877	3.877	0.000	71	597370	50.0	49.2	
44 2,2-Dichloropropane	77	4.309	4.309	0.000	67	533678	50.0	50.3	
43 2-Butanone (MEK)	43	4.309	4.309	0.000	97	792178	250.0	274.0	
45 cis-1,2-Dichloroethene	96	4.321	4.321	0.000	72	384257	50.0	50.1	
48 Chlorobromomethane	128	4.522	4.522	0.000	89	184333	50.0	50.6	
49 Tetrahydrofuran	42	4.546	4.546	0.000	68	194222	100.0	107.0	
50 Chloroform	83	4.558	4.558	0.000	80	627303	50.0	49.0	
51 1,1,1-Trichloroethane	97	4.704	4.704	0.000	90	553979	50.0	50.0	
52 Cyclohexane	56	4.729	4.729	0.000	88	531715	50.0	49.4	
54 1,1-Dichloropropene	75	4.820	4.820	0.000	91	467658	50.0	50.0	
55 Carbon tetrachloride	117	4.832	4.832	0.000	68	441092	50.0	52.1	
53 Isobutyl alcohol	43	4.887	4.887	0.000	69	412434	1250.0	1402.1	
57 Benzene	78	5.002	5.002	0.000	96	1278496	50.0	49.4	
58 1,2-Dichloroethane	62	5.039	5.039	0.000	87	539467	50.0	50.1	
59 n-Heptane	43	5.100	5.100	0.000	88	478499	50.0	49.2	
62 Trichloroethene	95	5.519	5.519	0.000	90	355378	50.0	49.3	
64 Methylcyclohexane	83	5.653	5.653	0.000	89	602359	50.0	49.3	
65 1,2-Dichloropropane	63	5.738	5.738	0.000	86	320235	50.0	49.9	
66 1,4-Dioxane	88	5.842	5.842	0.000	60	81171	1000.0	1085.7	
67 Dibromomethane	93	5.866	5.866	0.000	91	226152	50.0	50.8	
68 Dichlorobromomethane	83	5.976	5.976	0.000	93	428742	50.0	52.6	
69 2-Chloroethyl vinyl ether	63	6.189	6.189	0.000	92	198370	50.0	52.8	
72 cis-1,3-Dichloropropene	75	6.353	6.353	0.000	89	553054	50.0	52.9	
73 4-Methyl-2-pentanone (MIBK	43	6.456	6.456	0.000	95	1579381	250.0	268.8	
74 Toluene	92	6.645	6.645	0.000	93	835846	50.0	49.2	
77 trans-1,3-Dichloropropene	75	6.870	6.870	0.000	90	507270	50.0	53.4	
75 Ethyl methacrylate	69	6.870	6.870	0.000	75	437086	50.0	53.0	
79 1,1,2-Trichloroethane	83	7.065	7.065	0.000	88	245609	50.0	51.0	
81 Tetrachloroethene	166	7.162	7.162	0.000	90	385945	50.0	49.8	
82 1,3-Dichloropropane	76	7.223	7.223	0.000	91	516543	50.0	50.7	
80 2-Hexanone	43	7.241	7.241	0.000	92	1154083	250.0	271.9	
83 Chlorodibromomethane	129	7.466	7.466	0.000	87	302519	50.0	47.4	
84 Ethylene Dibromide	107	7.594	7.594	0.000	98	303332	50.0	51.2	
87 Chlorobenzene	112	8.044	8.044	0.000	93	918308	50.0	49.2	
88 Ethylbenzene	91	8.111	8.111	0.000	57	1560076	50.0	50.3	
89 1,1,1,2-Tetrachloroethane	131	8.123	8.123	0.000	44	325999	50.0	54.1	
90 m-Xylene & p-Xylene	106	8.227	8.227	0.000	99	629311	50.0	50.2	
91 o-Xylene	106	8.658	8.658	0.000	93	610756	50.0	49.8	
92 Styrene	104	8.677	8.677	0.000	93	1049534	50.0	50.3	
95 Bromoform	173	8.951	8.951	0.000	96	181803	50.0	44.8	
94 Isopropylbenzene	105	9.024	9.024	0.000	96	1571829	50.0	49.2	
97 1,1,2,2-Tetrachloroethane	83	9.413	9.413	0.000	69	390962	50.0	52.7	
101 Bromobenzene	156	9.413	9.413	0.000	92	434307	50.0	50.0	
98 trans-1,4-Dichloro-2-buten	53	9.455	9.455	0.000	22	124745	50.0	54.4	
99 N-Propylbenzene	91	9.455	9.455	0.000	98	1842824	50.0	49.4	
100 1,2,3-Trichloropropane	110	9.462	9.462	0.000	20	129969	50.0	51.6	
103 2-Chlorotoluene	126	9.589	9.589	0.000	95	379075	50.0	49.5	
102 1,3,5-Trimethylbenzene	105	9.626	9.626	0.000	73	1358965	50.0	49.3	
105 4-Chlorotoluene	126	9.693	9.693	0.000	81	398034	50.0	49.4	
106 tert-Butylbenzene	134	9.954	9.954	0.000	89	314436	50.0	49.4	
107 1,2,4-Trimethylbenzene	105	10.009	10.009	0.000	42	1413205	50.0	49.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
109 sec-Butylbenzene	105	10.161	10.161	0.000	95	1726572	50.0	49.6	
110 4-Isopropyltoluene	119	10.289	10.289	0.000	95	1481738	50.0	50.1	
111 1,3-Dichlorobenzene	146	10.319	10.319	0.000	97	828372	50.0	49.4	
113 1,4-Dichlorobenzene	146	10.404	10.404	0.000	94	837772	50.0	49.5	
115 n-Butylbenzene	91	10.666	10.666	0.000	94	1364825	50.0	49.8	
116 1,2-Dichlorobenzene	146	10.751	10.751	0.000	96	796831	50.0	49.9	
117 1,2-Dibromo-3-Chloropropan	75	11.439	11.439	0.000	76	79527	50.0	56.1	
119 1,2,4-Trichlorobenzene	180	12.071	12.071	0.000	93	544554	50.0	49.9	
120 Hexachlorobutadiene	225	12.169	12.169	0.000	94	321237	50.0	49.9	
121 Naphthalene	128	12.290	12.290	0.000	97	1256929	50.0	52.4	
122 1,2,3-Trichlorobenzene	180	12.497	12.497	0.000	92	506579	50.0	50.7	

Reagents:

8260 CORP mix_00103	Amount Added: 25.00	Units: uL	
GAS CORP mix_00230	Amount Added: 25.00	Units: uL	
F 8260 SURR_00239	Amount Added: 1.00	Units: uL	Run Reagent
F 8260 IS_00556	Amount Added: 1.00	Units: uL	Run Reagent

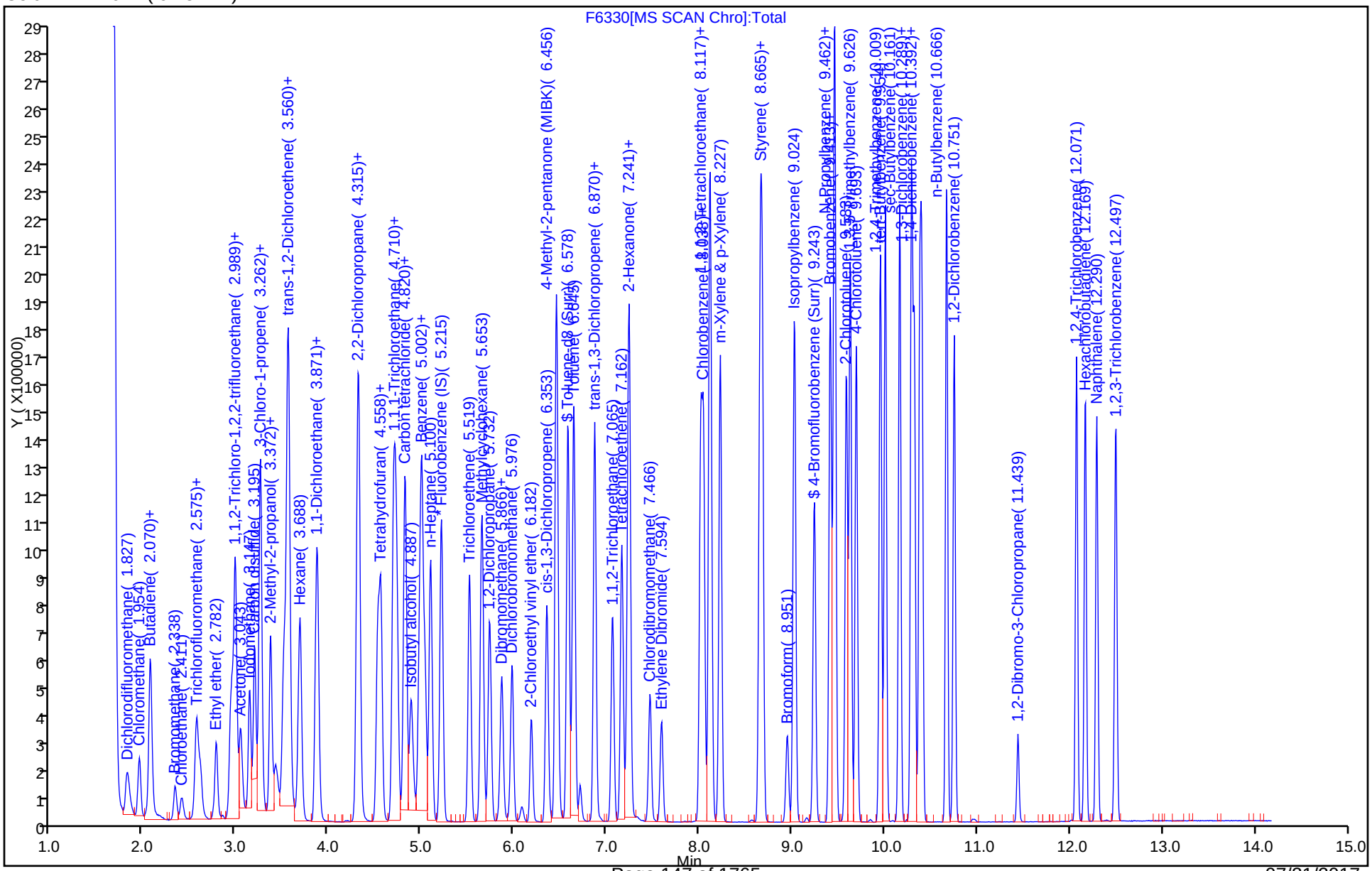
Report Date: 21-Jul-2017 07:11:35 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20170720-64196.b\F6330.D

Injection Date:	20-Jul-2017 13:25:30	Instrument ID:	HP5973F	Operator ID:	CDC
Lims ID:	ICIS 5			Worklist Smp#:	8
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20170720-64196.b\F6331.D
Lims ID: IC 6
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 20-Jul-2017 13:50:30 ALS Bottle#: 7 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 6
Misc. Info.: 480-0064196-009
Operator ID: CDC Instrument ID: HP5973F
Sublist: chrom-F-8260 SOIL*sub27

Method: \\ChromNA\Buffalo\ChromData\HP5973F\20170720-64196.b\F-8260 SOIL.m
Limit Group: MV - 8260C ICAL
Last Update: 21-Jul-2017 07:11:36 Calib Date: 20-Jul-2017 17:41:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973F\20170720-64196.b\F6340.D

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

First Level Reviewer: cwiklinc Date: 20-Jul-2017 14:23:07

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
* 153 Fluorobenzene (IS)	70	5.209	5.215	-0.006	98	249261	50.0	50.0	
* 2 Chlorobenzene-d5	82	8.014	8.014	0.000	86	509807	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.380	10.380	0.000	95	529068	50.0	50.0	
$ 154 Dibromofluoromethane (Surr	113	4.692	4.698	-0.006	91	329921	50.0	50.4	
$ 4 1,2-Dichloroethane-d4 (Sur	67	4.972	4.978	-0.006	0	213309	50.0	50.4	
$ 5 Toluene-d8 (Surr)	98	6.578	6.578	0.000	93	1219264	50.0	50.6	
$ 6 4-Bromofluorobenzene (Surr	174	9.243	9.243	0.001	90	416905	50.0	51.1	
10 Dichlorodifluoromethane	85	1.815	1.827	-0.012	99	741873	100.0	95.8	
12 Chloromethane	50	1.948	1.954	-0.006	99	605870	100.0	93.2	
13 Vinyl chloride	62	2.058	2.064	-0.006	98	591393	100.0	95.7	
151 Butadiene	54	2.070	2.076	-0.006	90	512635	100.0	92.0	
14 Bromomethane	94	2.338	2.338	0.000	92	208645	100.0	96.0	
15 Chloroethane	64	2.405	2.417	-0.012	99	191114	100.0	100.9	
16 Dichlorofluoromethane	67	2.563	2.569	-0.006	97	671368	100.0	92.6	
17 Trichlorofluoromethane	101	2.593	2.605	-0.012	95	756204	100.0	94.7	
18 Ethyl ether	59	2.776	2.788	-0.012	89	389861	100.0	94.7	
20 Acrolein	56	2.928	2.934	-0.006	100	487499	500.0	473.6	
21 1,1,2-Trichloro-1,2,2-trif	101	2.964	2.970	-0.006	92	639325	100.0	95.8	
22 1,1-Dichloroethene	96	2.989	2.995	-0.006	97	581513	100.0	96.2	
23 Acetone	43	3.037	3.049	-0.012	99	1039731	500.0	459.1	
25 Iodomethane	142	3.141	3.147	-0.006	100	1203737	100.0	96.2	
26 Carbon disulfide	76	3.189	3.195	-0.006	100	1970515	100.0	90.2	
27 Methyl acetate	43	3.250	3.256	-0.006	96	2104286	500.0	475.9	
28 3-Chloro-1-propene	41	3.256	3.262	-0.006	85	940884	100.0	94.7	
30 Methylene Chloride	84	3.366	3.372	-0.006	91	687823	100.0	101.3	
31 2-Methyl-2-propanol	59	3.421	3.427	-0.006	100	764786	1000.0	1012.7	
32 Methyl tert-butyl ether	73	3.512	3.518	-0.006	94	1980070	100.0	98.1	
34 trans-1,2-Dichloroethene	96	3.548	3.554	-0.006	98	655195	100.0	94.6	
33 Acrylonitrile	53	3.561	3.567	-0.006	97	2077609	1000.0	952.4	
35 Hexane	57	3.682	3.688	-0.006	92	947060	100.0	96.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
37 Vinyl acetate	43	3.859	3.865	-0.006	97	2136567	200.0	197.0	
39 1,1-Dichloroethane	63	3.871	3.877	-0.006	96	1157813	100.0	95.5	
43 2-Butanone (MEK)	43	4.309	4.309	0.000	97	1447892	500.0	501.6	
44 2,2-Dichloropropane	77	4.309	4.309	0.000	69	1043497	100.0	98.6	
45 cis-1,2-Dichloroethene	96	4.321	4.321	0.000	82	736608	100.0	96.2	
48 Chlorobromomethane	128	4.522	4.522	0.000	93	361526	100.0	99.3	
49 Tetrahydrofuran	42	4.540	4.546	-0.006	84	361624	200.0	199.6	
50 Chloroform	83	4.558	4.558	0.000	94	1230364	100.0	96.3	
51 1,1,1-Trichloroethane	97	4.698	4.704	-0.006	98	1100104	100.0	99.4	
52 Cyclohexane	56	4.722	4.729	-0.006	89	1034557	100.0	96.3	
54 1,1-Dichloropropene	75	4.814	4.820	-0.006	96	912737	100.0	97.8	
55 Carbon tetrachloride	117	4.826	4.832	-0.006	98	913747	100.0	108.1	
53 Isobutyl alcohol	43	4.887	4.887	0.000	94	763740	2500.0	2600.9	
57 Benzene	78	5.002	5.002	0.000	96	2453615	100.0	94.9	
58 1,2-Dichloroethane	62	5.033	5.039	-0.006	98	1032689	100.0	96.1	
59 n-Heptane	43	5.094	5.100	-0.006	89	923082	100.0	95.1	
62 Trichloroethene	95	5.513	5.519	-0.006	95	695074	100.0	96.6	
64 Methylcyclohexane	83	5.647	5.653	-0.006	89	1168368	100.0	95.8	
65 1,2-Dichloropropane	63	5.732	5.738	-0.006	91	630179	100.0	98.3	
66 1,4-Dioxane	88	5.836	5.842	-0.006	94	148459	2000.0	1975.4	
67 Dibromomethane	93	5.860	5.866	-0.006	95	442414	100.0	99.5	
68 Dichlorobromomethane	83	5.976	5.976	0.000	99	885133	100.0	108.8	
69 2-Chloroethyl vinyl ether	63	6.183	6.189	-0.006	94	380764	100.0	101.6	
72 cis-1,3-Dichloropropene	75	6.353	6.353	0.000	95	1096527	100.0	105.0	
73 4-Methyl-2-pentanone (MIBK	43	6.456	6.456	0.000	94	2849063	500.0	488.6	
74 Toluene	92	6.645	6.645	0.000	99	1616962	100.0	95.9	
75 Ethyl methacrylate	69	6.870	6.870	0.000	87	845847	100.0	103.3	
77 trans-1,3-Dichloropropene	75	6.864	6.870	-0.006	95	1015861	100.0	107.7	
79 1,1,2-Trichloroethane	83	7.059	7.065	-0.006	93	476634	100.0	99.7	
81 Tetrachloroethene	166	7.162	7.162	0.000	96	746479	100.0	97.0	
82 1,3-Dichloropropane	76	7.223	7.223	0.000	97	986490	100.0	97.7	
80 2-Hexanone	43	7.241	7.241	0.000	94	2083553	500.0	494.7	
83 Chlorodibromomethane	129	7.466	7.466	0.000	90	647861	100.0	99.0	
84 Ethylene Dibromide	107	7.588	7.594	-0.006	98	604203	100.0	102.7	
87 Chlorobenzene	112	8.044	8.044	0.000	97	1790763	100.0	96.7	
88 Ethylbenzene	91	8.111	8.111	0.000	98	2965117	100.0	96.3	
89 1,1,1,2-Tetrachloroethane	131	8.123	8.123	0.000	92	668575	100.0	111.8	
90 m-Xylene & p-Xylene	106	8.227	8.227	0.000	99	1220088	100.0	98.1	
91 o-Xylene	106	8.652	8.658	-0.006	97	1176909	100.0	96.7	
92 Styrene	104	8.677	8.677	0.000	94	2027015	100.0	97.8	
95 Bromoform	173	8.951	8.951	0.001	96	418708	100.0	98.5	
94 Isopropylbenzene	105	9.024	9.024	0.000	97	3041683	100.0	93.8	
101 Bromobenzene	156	9.413	9.413	0.000	92	846905	100.0	96.1	
97 1,1,2,2-Tetrachloroethane	83	9.413	9.413	0.000	76	738707	100.0	98.2	
99 N-Propylbenzene	91	9.462	9.455	0.007	98	3437834	100.0	90.9	
98 trans-1,4-Dichloro-2-buten	53	9.456	9.455	0.001	58	242562	100.0	104.3	
100 1,2,3-Trichloropropane	110	9.468	9.462	0.006	83	242618	100.0	94.9	
103 2-Chlorotoluene	126	9.589	9.589	0.000	96	744807	100.0	95.9	
102 1,3,5-Trimethylbenzene	105	9.626	9.626	0.000	94	2617115	100.0	93.6	
105 4-Chlorotoluene	126	9.693	9.693	0.000	98	771222	100.0	94.3	
106 tert-Butylbenzene	134	9.954	9.954	0.000	91	621466	100.0	96.3	
107 1,2,4-Trimethylbenzene	105	10.009	10.009	0.000	97	2686903	100.0	93.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
109 sec-Butylbenzene	105	10.161	10.161	0.000	95	3283091	100.0	93.1	
110 4-Isopropyltoluene	119	10.289	10.289	0.000	95	2836916	100.0	94.5	
111 1,3-Dichlorobenzene	146	10.319	10.319	0.000	97	1618609	100.0	95.2	
113 1,4-Dichlorobenzene	146	10.405	10.404	0.001	95	1635606	100.0	95.4	
115 n-Butylbenzene	91	10.666	10.666	0.000	97	2592397	100.0	93.3	
116 1,2-Dichlorobenzene	146	10.751	10.751	0.000	97	1547381	100.0	95.6	
117 1,2-Dibromo-3-Chloropropan	75	11.439	11.439	0.000	83	161337	100.0	112.3	
119 1,2,4-Trichlorobenzene	180	12.071	12.071	0.000	95	1083264	100.0	97.8	
120 Hexachlorobutadiene	225	12.169	12.169	0.000	97	634166	100.0	97.2	
121 Naphthalene	128	12.290	12.290	0.000	97	2424395	100.0	99.6	
122 1,2,3-Trichlorobenzene	180	12.497	12.497	0.000	95	997367	100.0	98.5	
S 125 1,2-Dichloroethene, Total	1				0			190.8	
S 126 1,3-Dichloropropene, Total	1				0			212.7	
S 123 Total BTEX	1				0			481.9	
S 124 Xylenes, Total	1				0			194.8	

Reagents:

8260 CORP mix_00103	Amount Added: 50.00	Units: uL		
GAS CORP mix_00230	Amount Added: 50.00	Units: uL		
F 8260 SURR_00239	Amount Added: 1.00	Units: uL	Run Reagent	
F 8260 IS_00556	Amount Added: 1.00	Units: uL	Run Reagent	

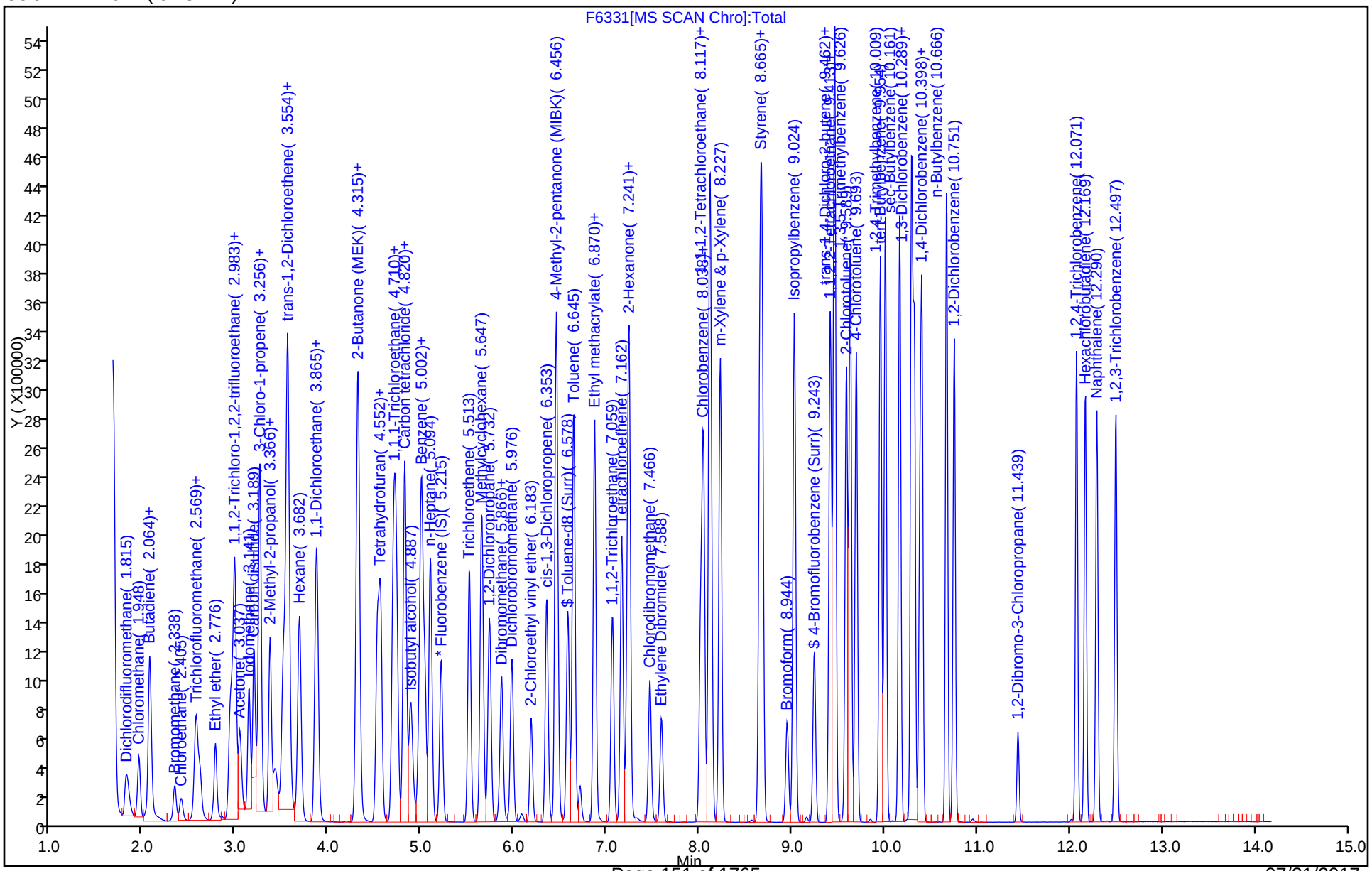
Report Date: 21-Jul-2017 07:11:37 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20170720-64196.b\F6331.D

Injection Date:	20-Jul-2017 13:50:30	Instrument ID:	HP5973F	Operator ID:	CDC
Lims ID:	IC 6			Worklist Smp#:	9
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20170720-64196.b\F6332.D
Lims ID: IC 7
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 20-Jul-2017 14:16:30 ALS Bottle#: 8 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 7
Misc. Info.: 480-0064196-010
Operator ID: CDC Instrument ID: HP5973F
Sublist: chrom-F-8260 SOIL*sub27

Method: \\ChromNA\Buffalo\ChromData\HP5973F\20170720-64196.b\F-8260 SOIL.m
Limit Group: MV - 8260C ICAL
Last Update: 21-Jul-2017 07:11:38 Calib Date: 20-Jul-2017 17:41:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973F\20170720-64196.b\F6340.D

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

First Level Reviewer: cwiklinc Date: 20-Jul-2017 15:48:30

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
* 153 Fluorobenzene (IS)	70	5.215	5.215	0.000	98	251997	50.0	50.0	
* 2 Chlorobenzene-d5	82	8.014	8.014	0.000	86	509428	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.380	10.380	0.000	95	525416	50.0	50.0	
$ 154 Dibromofluoromethane (Surr	113	4.698	4.698	0.000	92	331206	50.0	50.1	
$ 4 1,2-Dichloroethane-d4 (Sur	67	4.978	4.978	0.000	0	210382	50.0	49.1	
$ 5 Toluene-d8 (Surr)	98	6.584	6.578	0.006	93	1239779	50.0	51.5	
$ 6 4-Bromofluorobenzene (Surr	174	9.243	9.243	0.001	95	420445	50.0	51.6	
10 Dichlorodifluoromethane	85	1.833	1.827	0.006	99	1429613	200.0	182.7	
12 Chloromethane	50	1.967	1.954	0.013	99	1165843	200.0	177.4	
13 Vinyl chloride	62	2.076	2.064	0.012	98	1133626	200.0	181.5	
151 Butadiene	54	2.088	2.076	0.012	93	1001545	200.0	177.7	
14 Bromomethane	94	2.350	2.338	0.012	93	421995	200.0	192.0	
15 Chloroethane	64	2.417	2.417	0.000	99	382631	200.0	201.5	
16 Dichlorofluoromethane	67	2.575	2.569	0.006	97	1333487	200.0	182.0	
17 Trichlorofluoromethane	101	2.611	2.605	0.006	99	1501188	200.0	185.9	
18 Ethyl ether	59	2.788	2.788	0.000	89	783815	200.0	188.3	
20 Acrolein	56	2.940	2.934	0.006	99	932528	1000.0	896.2	
21 1,1,2-Trichloro-1,2,2-trif	101	2.970	2.970	0.000	92	1266344	200.0	187.6	
22 1,1-Dichloroethene	96	2.995	2.995	0.000	98	1131484	200.0	185.1	
23 Acetone	43	3.049	3.049	0.000	100	2033994	1000.0	888.4	
25 Iodomethane	142	3.147	3.147	0.000	99	2337632	200.0	184.8	
26 Carbon disulfide	76	3.202	3.195	0.007	100	3764285	200.0	170.4	
27 Methyl acetate	43	3.262	3.256	0.006	96	3908178	1000.0	874.2	
28 3-Chloro-1-propene	41	3.262	3.262	0.000	87	1783697	200.0	177.6	
30 Methylene Chloride	84	3.372	3.372	0.000	90	1335054	200.0	195.7	
31 2-Methyl-2-propanol	59	3.427	3.427	0.000	99	1505047	2000.0	1971.3	
32 Methyl tert-butyl ether	73	3.524	3.518	0.006	94	3826867	200.0	187.6	
34 trans-1,2-Dichloroethene	96	3.554	3.554	0.000	99	1252613	200.0	178.9	
33 Acrylonitrile	53	3.567	3.567	0.000	97	3883165	2000.0	1760.7	
35 Hexane	57	3.688	3.688	0.000	92	1810080	200.0	182.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
37 Vinyl acetate	43	3.865	3.865	0.000	97	4046103	400.0	368.9	
39 1,1-Dichloroethane	63	3.883	3.877	0.006	96	2235335	200.0	182.4	
44 2,2-Dichloropropane	77	4.315	4.309	0.006	87	2017030	200.0	188.4	
43 2-Butanone (MEK)	43	4.315	4.309	0.006	98	2697481	1000.0	924.4	
45 cis-1,2-Dichloroethene	96	4.327	4.321	0.006	82	1420670	200.0	183.5	
48 Chlorobromomethane	128	4.528	4.522	0.006	91	710828	200.0	193.2	
49 Tetrahydrofuran	42	4.540	4.546	-0.006	84	681039	400.0	371.8	
50 Chloroform	83	4.564	4.558	0.006	94	2374185	200.0	183.8	
51 1,1,1-Trichloroethane	97	4.704	4.704	0.000	98	2150762	200.0	192.2	
52 Cyclohexane	56	4.729	4.729	0.001	89	1969972	200.0	181.4	
54 1,1-Dichloropropene	75	4.820	4.820	0.000	96	1733486	200.0	183.8	
55 Carbon tetrachloride	117	4.832	4.832	0.000	98	1851720	200.0	216.8	
53 Isobutyl alcohol	43	4.887	4.887	0.000	93	1487313	5000.0	5010.1	
57 Benzene	78	5.002	5.002	0.000	97	4629602	200.0	177.2	
58 1,2-Dichloroethane	62	5.039	5.039	0.000	98	1988012	200.0	183.0	
59 n-Heptane	43	5.100	5.100	0.000	88	1751083	200.0	178.4	
62 Trichloroethene	95	5.519	5.519	0.000	96	1357877	200.0	186.7	
64 Methylcyclohexane	83	5.653	5.653	0.000	89	2243684	200.0	181.9	
65 1,2-Dichloropropane	63	5.738	5.738	0.000	92	1233710	200.0	190.3	
66 1,4-Dioxane	88	5.848	5.842	0.006	92	297020	4000.0	3924.6	
67 Dibromomethane	93	5.866	5.866	0.000	95	856867	200.0	190.6	
68 Dichlorobromomethane	83	5.976	5.976	0.000	99	1794814	200.0	218.3	
69 2-Chloroethyl vinyl ether	63	6.189	6.189	0.000	93	742017	200.0	195.9	
72 cis-1,3-Dichloropropene	75	6.353	6.353	0.000	96	2148475	200.0	203.5	
73 4-Methyl-2-pentanone (MIBK	43	6.456	6.456	0.000	92	5118631	1000.0	878.5	
74 Toluene	92	6.645	6.645	0.000	98	3089086	200.0	183.3	
77 trans-1,3-Dichloropropene	75	6.870	6.870	0.000	96	1987513	200.0	210.9	
75 Ethyl methacrylate	69	6.870	6.870	0.000	88	1629551	200.0	199.2	
79 1,1,2-Trichloroethane	83	7.065	7.065	0.000	93	926647	200.0	193.9	
81 Tetrachloroethene	166	7.162	7.162	0.000	96	1443677	200.0	187.8	
82 1,3-Dichloropropane	76	7.229	7.223	0.006	96	1889226	200.0	187.2	
80 2-Hexanone	43	7.241	7.241	0.000	93	3738265	1000.0	888.2	
83 Chlorodibromomethane	129	7.466	7.466	0.000	89	1359822	200.0	204.8	
84 Ethylene Dibromide	107	7.594	7.594	0.000	98	1173860	200.0	199.8	
87 Chlorobenzene	112	8.044	8.044	0.000	93	3417394	200.0	184.6	
88 Ethylbenzene	91	8.111	8.111	0.000	98	5385473	200.0	175.0	
89 1,1,1,2-Tetrachloroethane	131	8.123	8.123	0.000	93	1335762	200.0	223.5	
90 m-Xylene & p-Xylene	106	8.227	8.227	0.000	98	2329337	200.0	187.5	
91 o-Xylene	106	8.659	8.658	0.001	96	2278394	200.0	187.3	
92 Styrene	104	8.677	8.677	0.000	93	3839885	200.0	185.5	
95 Bromoform	173	8.951	8.951	0.001	96	909203	200.0	209.1	
94 Isopropylbenzene	105	9.024	9.024	0.000	97	5569835	200.0	173.0	
97 1,1,2,2-Tetrachloroethane	83	9.413	9.413	0.000	77	1381192	200.0	184.9	
101 Bromobenzene	156	9.413	9.413	0.000	90	1656976	200.0	189.4	
98 trans-1,4-Dichloro-2-buten	53	9.455	9.455	0.000	56	450490	200.0	195.0	
99 N-Propylbenzene	91	9.462	9.455	0.007	96	6060485	200.0	161.4	
100 1,2,3-Trichloropropane	110	9.468	9.462	0.006	78	461259	200.0	181.8	
103 2-Chlorotoluene	126	9.589	9.589	0.000	96	1434353	200.0	186.0	
102 1,3,5-Trimethylbenzene	105	9.632	9.626	0.006	95	4780011	200.0	172.2	
105 4-Chlorotoluene	126	9.693	9.693	0.000	98	1499790	200.0	184.7	
106 tert-Butylbenzene	134	9.954	9.954	0.000	91	1206491	200.0	188.3	
107 1,2,4-Trimethylbenzene	105	10.009	10.009	0.000	97	4929543	200.0	172.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
109 sec-Butylbenzene	105	10.161	10.161	0.000	95	5843192	200.0	166.8	
110 4-Isopropyltoluene	119	10.289	10.289	0.000	94	5122436	200.0	171.9	
111 1,3-Dichlorobenzene	146	10.319	10.319	0.000	97	3070433	200.0	181.8	
113 1,4-Dichlorobenzene	146	10.405	10.404	0.000	93	3082149	200.0	181.0	
115 n-Butylbenzene	91	10.666	10.666	0.000	95	4670385	200.0	169.3	
116 1,2-Dichlorobenzene	146	10.751	10.751	0.000	97	2963263	200.0	184.4	
117 1,2-Dibromo-3-Chloropropan	75	11.439	11.439	0.000	86	325731	200.0	228.3	
119 1,2,4-Trichlorobenzene	180	12.071	12.071	0.000	95	2087551	200.0	189.9	
120 Hexachlorobutadiene	225	12.169	12.169	0.000	97	1236872	200.0	190.9	
121 Naphthalene	128	12.290	12.290	0.000	98	4463512	200.0	184.7	
122 1,2,3-Trichlorobenzene	180	12.497	12.497	0.000	95	1935590	200.0	192.4	
S 123 Total BTEX	1				0			910.3	
S 124 Xylenes, Total	1				0			374.9	
S 125 1,2-Dichloroethene, Total	1				0			362.4	
S 126 1,3-Dichloropropene, Total	1				0			414.4	

Reagents:

8260 CORP mix_00103	Amount Added: 100.00	Units: uL	
GAS CORP mix_00230	Amount Added: 100.00	Units: uL	
F 8260 SURR_00239	Amount Added: 1.00	Units: uL	Run Reagent
F 8260 IS_00556	Amount Added: 1.00	Units: uL	Run Reagent

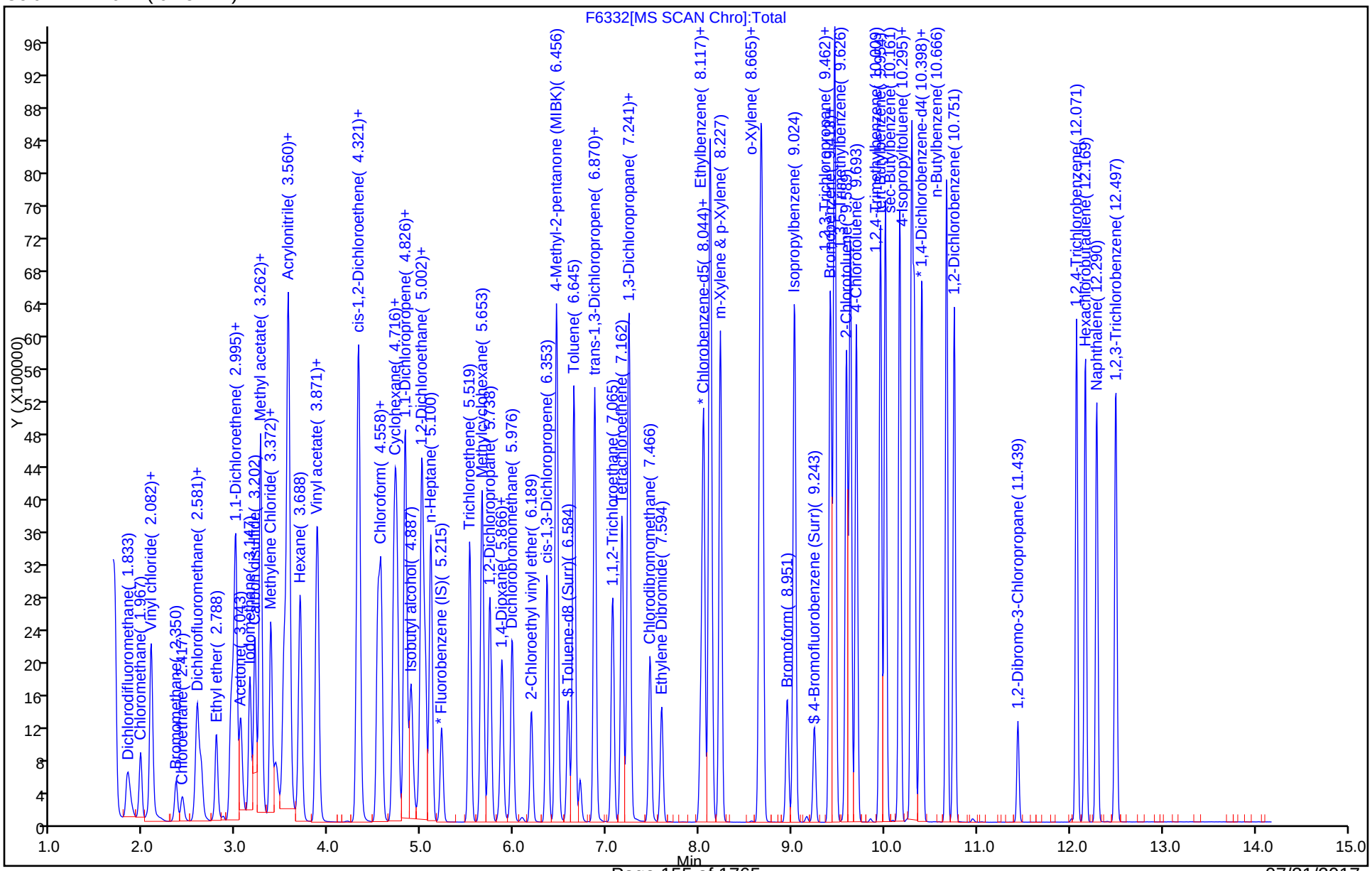
Report Date: 21-Jul-2017 07:11:39 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20170720-64196.b\F6332.D

Injection Date:	20-Jul-2017 14:16:30	Instrument ID:	HP5973F	Operator ID:	CDC
Lims ID:	IC 7			Worklist Smp#:	10
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1

SDG No.:

Lab Sample ID: CCVIS 480-368496/3 Calibration Date: 07/25/2017 08:50

Instrument ID: HP5973F Calib Start Date: 07/20/2017 11:43

GC Column: ZB-624 (30) ID: 0.25(mm) Calib End Date: 07/20/2017 14:16

Lab File ID: F6439.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	1.553	1.734	0.1000	55.8	50.0	11.7	50.0
Chloromethane	Ave	1.304	1.470	0.1000	56.4	50.0	12.8	20.0
Vinyl chloride	Ave	1.239	1.402	0.1000	56.6	50.0	13.1	20.0
Butadiene	Ave	1.118	1.222		54.6	50.0	9.3	20.0
Bromomethane	Ave	0.4360	0.7625	0.1000	87.4	50.0	74.9*	50.0
Chloroethane	Lin1		0.6468	0.1000	84.8	50.0	69.7*	50.0
Dichlorofluoromethane	Ave	1.454	1.670		57.4	50.0	14.9	20.0
Trichlorofluoromethane	Ave	1.602	1.765	0.1000	55.1	50.0	10.1	20.0
Ethyl ether	Ave	0.8259	0.9269		56.1	50.0	12.2	20.0
Acrolein	Ave	0.2065	0.2109		255	250	2.1	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	1.339	1.333	0.1000	49.8	50.0	-0.5	20.0
1,1-Dichloroethene	Ave	1.213	1.187	0.1000	48.9	50.0	-2.1	20.0
Acetone	Ave	0.4543	0.4845	0.1000	267	250	6.6	50.0
Iodomethane	Ave	2.510	2.457		48.9	50.0	-2.1	20.0
Carbon disulfide	Ave	4.382	3.997	0.1000	45.6	50.0	-8.8	20.0
Allyl chloride	Ave	1.993	1.964		49.3	50.0	-1.5	20.0
Methyl acetate	Ave	0.8870	0.9229	0.1000	260	250	4.0	50.0
Methylene Chloride	Lin1		1.402	0.1000	50.8	50.0	1.6	20.0
2-Methyl-2-propanol	Ave	0.1515	0.1485		490	500	-2.0	50.0
Methyl tert-butyl ether	Ave	4.047	4.065	0.1000	50.2	50.0	0.4	20.0
trans-1,2-Dichloroethene	Ave	1.390	1.367	0.1000	49.2	50.0	-1.6	20.0
Acrylonitrile	Ave	0.4376	0.4541		519	500	3.8	20.0
Hexane	Ave	1.974	1.924		48.7	50.0	-2.5	20.0
Vinyl acetate	Ave	2.176	2.400		110	100	10.3	20.0
1,1-Dichloroethane	Ave	2.431	2.403	0.2000	49.4	50.0	-1.2	20.0
2,2-Dichloropropane	Ave	2.124	2.242		52.8	50.0	5.5	20.0
2-Butanone (MEK)	Ave	0.5790	0.6319	0.1000	273	250	9.1	20.0
cis-1,2-Dichloroethene	Ave	1.536	1.494	0.1000	48.6	50.0	-2.7	20.0
Chlorobromomethane	Ave	0.7302	0.7182		49.2	50.0	-1.6	20.0
Tetrahydrofuran	Ave	0.3634	0.3840		106	100	5.7	20.0
Chloroform	Ave	2.562	2.530	0.2000	49.4	50.0	-1.3	20.0
1,1,1-Trichloroethane	Ave	2.220	2.275	0.1000	51.2	50.0	2.5	20.0
Cyclohexane	Ave	2.154	2.109	0.1000	48.9	50.0	-2.1	20.0
1,1-Dichloropropene	Ave	1.871	1.855		49.6	50.0	-0.9	20.0
Carbon tetrachloride	Ave	1.695	1.964	0.1000	57.9	50.0	15.9	20.0
Isobutyl alcohol	Ave	0.0589	0.0579		1230	1250	-1.6	50.0
Benzene	Ave	5.185	4.978	0.5000	48.0	50.0	-4.0	20.0
1,2-Dichloroethane	Ave	2.155	2.123	0.1000	49.2	50.0	-1.5	20.0
n-Heptane	Ave	1.947	1.834		47.1	50.0	-5.8	20.0
Trichloroethene	Ave	1.443	1.394	0.2000	48.3	50.0	-3.4	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1

SDG No.:

Lab Sample ID: CCVIS 480-368496/3 Calibration Date: 07/25/2017 08:50

Instrument ID: HP5973F Calib Start Date: 07/20/2017 11:43

GC Column: ZB-624 (30) ID: 0.25(mm) Calib End Date: 07/20/2017 14:16

Lab File ID: F6439.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methylcyclohexane	Ave	2.447	2.294	0.1000	46.9	50.0	-6.3	20.0
1,2-Dichloropropane	Ave	1.286	1.235	0.1000	48.0	50.0	-4.0	20.0
1,4-Dioxane	Lin1		0.0053		736	1000	-26.4	50.0
Dibromomethane	Ave	0.8921	0.8662	0.1000	48.5	50.0	-2.9	20.0
Bromodichloromethane	Ave	1.632	1.788	0.2000	54.8	50.0	9.6	20.0
2-Chloroethyl vinyl ether	Ave	0.7517	0.7296		48.5	50.0	-2.9	20.0
cis-1,3-Dichloropropene	Ave	2.095	2.108	0.2000	50.3	50.0	0.6	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.5719	0.6013	0.1000	263	250	5.2	20.0
Toluene	Ave	1.654	1.597	0.4000	48.3	50.0	-3.4	20.0
trans-1,3-Dichloropropene	Ave	0.9251	0.9810	0.1000	53.0	50.0	6.0	20.0
Ethyl methacrylate	Ave	0.8030	0.8168		50.9	50.0	1.7	20.0
1,1,2-Trichloroethane	Ave	0.4691	0.4583	0.1000	48.9	50.0	-2.3	20.0
Tetrachloroethene	Ave	0.7545	0.7254	0.2000	48.1	50.0	-3.8	20.0
1,3-Dichloropropane	Ave	0.9905	0.9771		49.3	50.0	-1.4	20.0
2-Hexanone	Ave	0.4131	0.4508	0.1000	273	250	9.1	20.0
Dibromochloromethane	Lin1		0.6310	0.1000	50.6	50.0	1.1	20.0
1,2-Dibromoethane	Ave	0.5768	0.5764		50.0	50.0	-0.0	20.0
Chlorobenzene	Ave	1.817	1.747	0.5000	48.1	50.0	-3.8	20.0
Ethylbenzene	Ave	3.021	3.012	0.1000	49.8	50.0	-0.3	20.0
1,1,1,2-Tetrachloroethane	Ave	0.5866	0.6577		56.1	50.0	12.1	20.0
m,p-Xylene	Ave	1.219	1.199	0.1000	49.2	50.0	-1.6	20.0
o-Xylene	Ave	1.194	1.147	0.3000	48.1	50.0	-3.9	20.0
Styrene	Ave	2.032	1.978	0.3000	48.7	50.0	-2.6	20.0
Bromoform	Lin1		0.4013	0.1000	50.2	50.0	0.5	50.0
Isopropylbenzene	Ave	3.064	3.040	0.1000	49.6	50.0	-0.8	20.0
1,1,2,2-Tetrachloroethane	Ave	0.7107	0.7483	0.3000	52.6	50.0	5.3	20.0
Bromobenzene	Ave	0.8326	0.8134		48.8	50.0	-2.3	20.0
N-Propylbenzene	Ave	3.572	3.585		50.2	50.0	0.4	20.0
trans-1,4-Dichloro-2-butene	Ave	0.2198	0.2527		57.5	50.0	14.9	50.0
1,2,3-Trichloropropane	Ave	0.2415	0.2440		50.5	50.0	1.0	20.0
2-Chlorotoluene	Ave	0.7337	0.7225		49.2	50.0	-1.5	20.0
1,3,5-Trimethylbenzene	Ave	2.642	2.631		49.8	50.0	-0.4	20.0
4-Chlorotoluene	Ave	0.7726	0.7665		49.6	50.0	-0.8	20.0
tert-Butylbenzene	Ave	0.6097	0.5914		48.5	50.0	-3.0	20.0
1,2,4-Trimethylbenzene	Ave	2.721	2.715		49.9	50.0	-0.3	20.0
sec-Butylbenzene	Ave	3.333	3.303		49.6	50.0	-0.9	20.0
4-Isopropyltoluene	Ave	2.836	2.841		50.1	50.0	0.2	20.0
1,3-Dichlorobenzene	Ave	1.607	1.596	0.6000	49.6	50.0	-0.7	20.0
1,4-Dichlorobenzene	Ave	1.620	1.590	0.5000	49.1	50.0	-1.9	20.0
n-Butylbenzene	Ave	2.625	2.636		50.2	50.0	0.4	20.0
1,2-Dichlorobenzene	Ave	1.529	1.495	0.4000	48.9	50.0	-2.2	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1

SDG No.:

Lab Sample ID: CCVIS 480-368496/3 Calibration Date: 07/25/2017 08:50

Instrument ID: HP5973F Calib Start Date: 07/20/2017 11:43

GC Column: ZB-624 (30) ID: 0.25(mm) Calib End Date: 07/20/2017 14:16

Lab File ID: F6439.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dibromo-3-Chloropropane	Ave	0.1357	0.1537	0.0500	56.6	50.0	13.2	50.0
1,2,4-Trichlorobenzene	Ave	1.046	0.9905	0.2000	47.3	50.0	-5.3	20.0
Hexachlorobutadiene	Ave	0.6167	0.5728		46.4	50.0	-7.1	20.0
Naphthalene	Ave	2.299	2.205		48.0	50.0	-4.1	20.0
1,2,3-Trichlorobenzene	Ave	0.9574	0.8668		45.3	50.0	-9.5	20.0
Dibromofluoromethane (Surr)	Ave	1.312	1.348		51.4	50.0	2.7	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.8495	0.8616		50.7	50.0	1.4	20.0
Toluene-d8 (Surr)	Ave	2.361	2.423		51.3	50.0	2.6	20.0
4-Bromofluorobenzene (Surr)	Ave	0.8002	0.7863		49.1	50.0	-1.7	20.0

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20170725-64296.b\F6439.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 25-Jul-2017 08:50:30 ALS Bottle#: 3 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: CCVIS
Misc. Info.: 480-0064296-003
Operator ID: AM/LH Instrument ID: HP5973F
Sublist: chrom-F-8260 SOIL*sub27

Method: \\ChromNA\Buffalo\ChromData\HP5973F\20170725-64296.b\F-8260 SOIL.m
Limit Group: MV - 8260C ICAL
Last Update: 25-Jul-2017 09:15:18 Calib Date: 20-Jul-2017 17:41:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973F\20170720-64196.b\F6340.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK013

First Level Reviewer: moffata Date: 25-Jul-2017 09:15:18

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
* 153 Fluorobenzene (IS)	70	5.215	5.215	0.000	98	243082	50.0	50.0	
* 2 Chlorobenzene-d5	82	8.014	8.014	0.000	88	491000	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.380	10.380	0.000	95	487570	50.0	50.0	
$ 154 Dibromofluoromethane (Surr	113	4.692	4.692	0.000	92	327647	50.0	51.4	
$ 4 1,2-Dichloroethane-d4 (Sur	67	4.972	4.972	0.000	0	209438	50.0	50.7	
$ 5 Toluene-d8 (Surr)	98	6.578	6.578	0.000	94	1189856	50.0	51.3	
$ 6 4-Bromofluorobenzene (Surr	174	9.242	9.242	0.000	88	386087	50.0	49.1	
10 Dichlorodifluoromethane	85	1.821	1.821	0.000	99	421562	50.0	55.8	M
12 Chloromethane	50	1.948	1.948	0.000	99	357333	50.0	56.4	
13 Vinyl chloride	62	2.058	2.058	0.000	98	340774	50.0	56.6	
151 Butadiene	54	2.070	2.070	0.000	90	296977	50.0	54.6	
14 Bromomethane	94	2.338	2.338	0.000	92	185343	50.0	87.4	
15 Chloroethane	64	2.411	2.411	0.000	100	157226	50.0	84.8	
16 Dichlorofluoromethane	67	2.563	2.563	0.000	97	405961	50.0	57.4	
17 Trichlorofluoromethane	101	2.593	2.593	0.000	99	429015	50.0	55.1	
18 Ethyl ether	59	2.782	2.782	0.000	89	225315	50.0	56.1	
20 Acrolein	56	2.934	2.934	0.000	100	256305	250.0	255.3	
21 1,1,2-Trichloro-1,2,2-trif	101	2.964	2.964	0.000	93	323974	50.0	49.8	
22 1,1-Dichloroethene	96	2.989	2.989	0.000	98	288473	50.0	48.9	
23 Acetone	43	3.043	3.043	0.000	99	588856	250.0	266.6	
25 Iodomethane	142	3.141	3.141	0.000	99	597145	50.0	48.9	
26 Carbon disulfide	76	3.195	3.195	0.000	100	971623	50.0	45.6	
27 Methyl acetate	43	3.256	3.256	0.000	97	1121753	250.0	260.1	
28 3-Chloro-1-propene	41	3.256	3.256	0.000	85	477400	50.0	49.3	
30 Methylene Chloride	84	3.366	3.366	0.000	92	340880	50.0	50.8	
31 2-Methyl-2-propanol	59	3.421	3.421	0.000	100	360910	500.0	490.1	
32 Methyl tert-butyl ether	73	3.518	3.518	0.000	94	988170	50.0	50.2	
34 trans-1,2-Dichloroethene	96	3.548	3.548	0.000	98	332264	50.0	49.2	
33 Acrylonitrile	53	3.560	3.560	0.000	97	1103817	500.0	518.9	
35 Hexane	57	3.682	3.682	0.000	93	467655	50.0	48.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
37 Vinyl acetate	43	3.859	3.859	0.000	97	1166685	100.0	110.3	
39 1,1-Dichloroethane	63	3.877	3.877	0.000	96	584122	50.0	49.4	
44 2,2-Dichloropropane	77	4.309	4.309	0.000	78	544879	50.0	52.8	
43 2-Butanone (MEK)	43	4.309	4.309	0.000	98	768062	250.0	272.8	
45 cis-1,2-Dichloroethene	96	4.321	4.321	0.000	83	363280	50.0	48.6	
48 Chlorobromomethane	128	4.522	4.522	0.000	93	174575	50.0	49.2	
49 Tetrahydrofuran	42	4.540	4.540	0.000	84	186664	100.0	105.7	
50 Chloroform	83	4.558	4.558	0.000	95	615047	50.0	49.4	
51 1,1,1-Trichloroethane	97	4.698	4.698	0.000	98	552986	50.0	51.2	
52 Cyclohexane	56	4.728	4.728	0.000	90	512651	50.0	48.9	
54 1,1-Dichloropropene	75	4.820	4.820	0.000	96	450903	50.0	49.6	
55 Carbon tetrachloride	117	4.826	4.826	0.000	98	477440	50.0	57.9	
53 Isobutyl alcohol	43	4.887	4.887	0.000	93	352080	1250.0	1229.5	
57 Benzene	78	5.002	5.002	0.000	97	1210057	50.0	48.0	
58 1,2-Dichloroethane	62	5.033	5.033	0.000	98	516026	50.0	49.2	
59 n-Heptane	43	5.093	5.093	0.000	88	445714	50.0	47.1	
62 Trichloroethene	95	5.513	5.513	0.000	95	338838	50.0	48.3	
64 Methylcyclohexane	83	5.653	5.653	0.000	89	557635	50.0	46.9	
65 1,2-Dichloropropane	63	5.732	5.732	0.000	91	300231	50.0	48.0	
66 1,4-Dioxane	88	5.836	5.836	0.000	92	51884	1000.0	736.3	
67 Dibromomethane	93	5.866	5.866	0.000	95	210557	50.0	48.5	
68 Dichlorobromomethane	83	5.976	5.976	0.000	99	434679	50.0	54.8	
69 2-Chloroethyl vinyl ether	63	6.182	6.182	0.000	93	177354	50.0	48.5	
72 cis-1,3-Dichloropropene	75	6.353	6.353	0.000	94	512323	50.0	50.3	
73 4-Methyl-2-pentanone (MIBK	43	6.456	6.456	0.000	95	1476245	250.0	262.9	
74 Toluene	92	6.645	6.645	0.000	98	784255	50.0	48.3	
77 trans-1,3-Dichloropropene	75	6.864	6.864	0.000	95	481678	50.0	53.0	
75 Ethyl methacrylate	69	6.870	6.870	0.000	87	401045	50.0	50.9	
79 1,1,2-Trichloroethane	83	7.065	7.065	0.000	94	225027	50.0	48.9	
81 Tetrachloroethene	166	7.162	7.162	0.000	95	356190	50.0	48.1	
82 1,3-Dichloropropane	76	7.223	7.223	0.000	96	479754	50.0	49.3	
80 2-Hexanone	43	7.241	7.241	0.000	95	1106778	250.0	272.8	
83 Chlorodibromomethane	129	7.466	7.466	0.000	90	309827	50.0	50.6	
84 Ethylene Dibromide	107	7.588	7.588	0.000	99	282996	50.0	50.0	
87 Chlorobenzene	112	8.044	8.044	0.000	93	857744	50.0	48.1	
88 Ethylbenzene	91	8.111	8.111	0.000	98	1478954	50.0	49.8	
89 1,1,1,2-Tetrachloroethane	131	8.123	8.123	0.000	91	322933	50.0	56.1	
90 m-Xylene & p-Xylene	106	8.227	8.227	0.000	99	588832	50.0	49.2	
91 o-Xylene	106	8.652	8.652	0.000	97	563342	50.0	48.1	
92 Styrene	104	8.677	8.677	0.000	94	971329	50.0	48.7	
95 Bromoform	173	8.950	8.950	0.000	95	197050	50.0	50.2	
94 Isopropylbenzene	105	9.023	9.023	0.000	97	1482217	50.0	49.6	
97 1,1,2,2-Tetrachloroethane	83	9.413	9.413	0.000	77	364859	50.0	52.6	
101 Bromobenzene	156	9.413	9.413	0.000	94	396574	50.0	48.8	
98 trans-1,4-Dichloro-2-buten	53	9.455	9.455	0.000	59	123185	50.0	57.5	
99 N-Propylbenzene	91	9.455	9.455	0.000	98	1747973	50.0	50.2	
100 1,2,3-Trichloropropane	110	9.462	9.462	0.000	83	118977	50.0	50.5	
103 2-Chlorotoluene	126	9.583	9.583	0.000	96	352272	50.0	49.2	
102 1,3,5-Trimethylbenzene	105	9.632	9.632	0.000	94	1283006	50.0	49.8	
105 4-Chlorotoluene	126	9.693	9.693	0.000	99	373705	50.0	49.6	
106 tert-Butylbenzene	134	9.954	9.954	0.000	91	288323	50.0	48.5	
107 1,2,4-Trimethylbenzene	105	10.009	10.009	0.000	98	1323527	50.0	49.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
109 sec-Butylbenzene	105	10.161	10.161	0.000	95	1610586	50.0	49.6	
110 4-Isopropyltoluene	119	10.289	10.289	0.000	95	1385229	50.0	50.1	
111 1,3-Dichlorobenzene	146	10.319	10.319	0.000	97	777932	50.0	49.6	
113 1,4-Dichlorobenzene	146	10.404	10.404	0.000	94	775303	50.0	49.1	
115 n-Butylbenzene	91	10.666	10.666	0.000	98	1285204	50.0	50.2	
116 1,2-Dichlorobenzene	146	10.751	10.751	0.000	97	728900	50.0	48.9	
117 1,2-Dibromo-3-Chloropropan	75	11.439	11.439	0.000	84	74918	50.0	56.6	
119 1,2,4-Trichlorobenzene	180	12.071	12.071	0.000	94	482928	50.0	47.3	
120 Hexachlorobutadiene	225	12.169	12.169	0.000	98	279291	50.0	46.4	
121 Naphthalene	128	12.290	12.290	0.000	97	1075277	50.0	48.0	
122 1,2,3-Trichlorobenzene	180	12.497	12.497	0.000	95	422618	50.0	45.3	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

GAS CORP mix_00231	Amount Added: 25.00	Units: uL	
8260 CORP mix_00103	Amount Added: 25.00	Units: uL	
F 8260 SURR_00239	Amount Added: 1.00	Units: uL	Run Reagent
F 8260 IS_00556	Amount Added: 1.00	Units: uL	Run Reagent

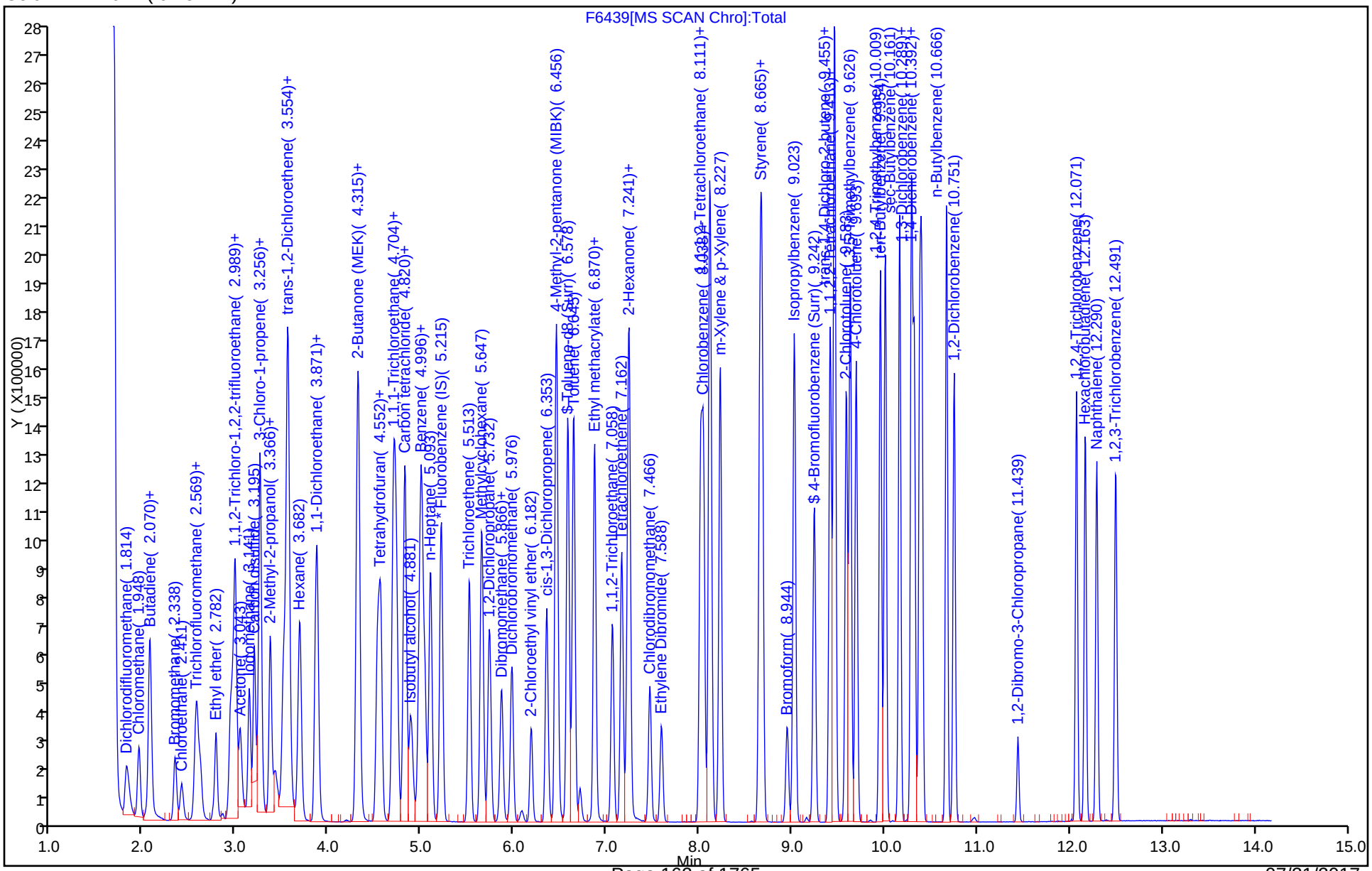
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TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20170725-64296.b\F6439.D

Injection Date:	25-Jul-2017 08:50:30	Instrument ID:	HP5973F	Operator ID:	AM/LH
Lims ID:	CCVIS			Worklist Smp#:	3
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

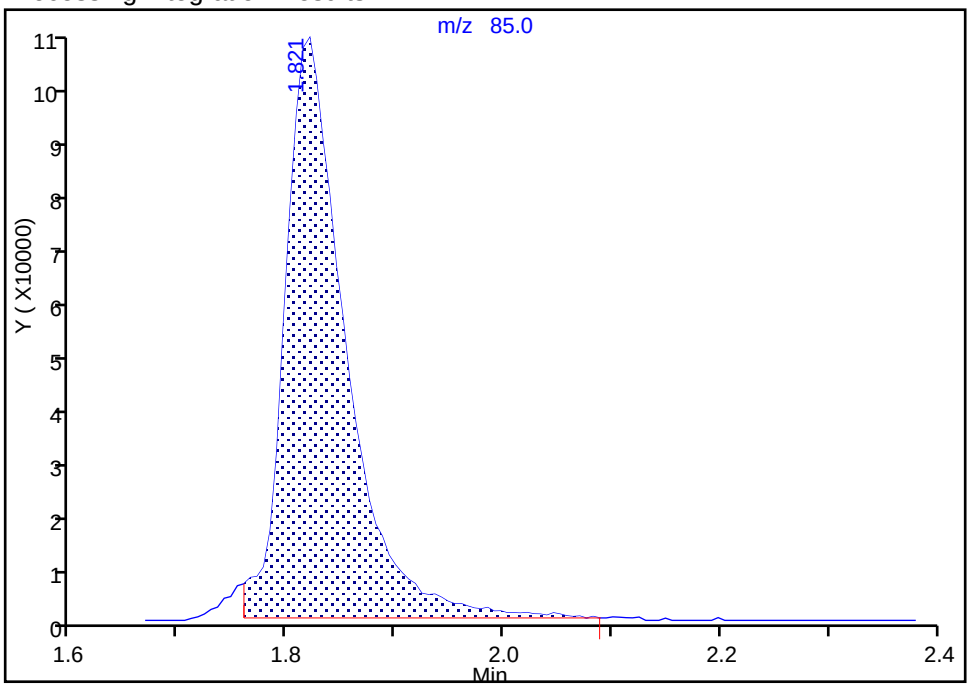
Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20170725-64296.b\F6439.D
Injection Date: 25-Jul-2017 08:50:30 Instrument ID: HP5973F
Lims ID: CCVIS
Client ID:
Operator ID: AM/LH ALS Bottle#: 3 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: F-8260 SOIL Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

10 Dichlorodifluoromethane, CAS: 75-71-8

Signal: 1

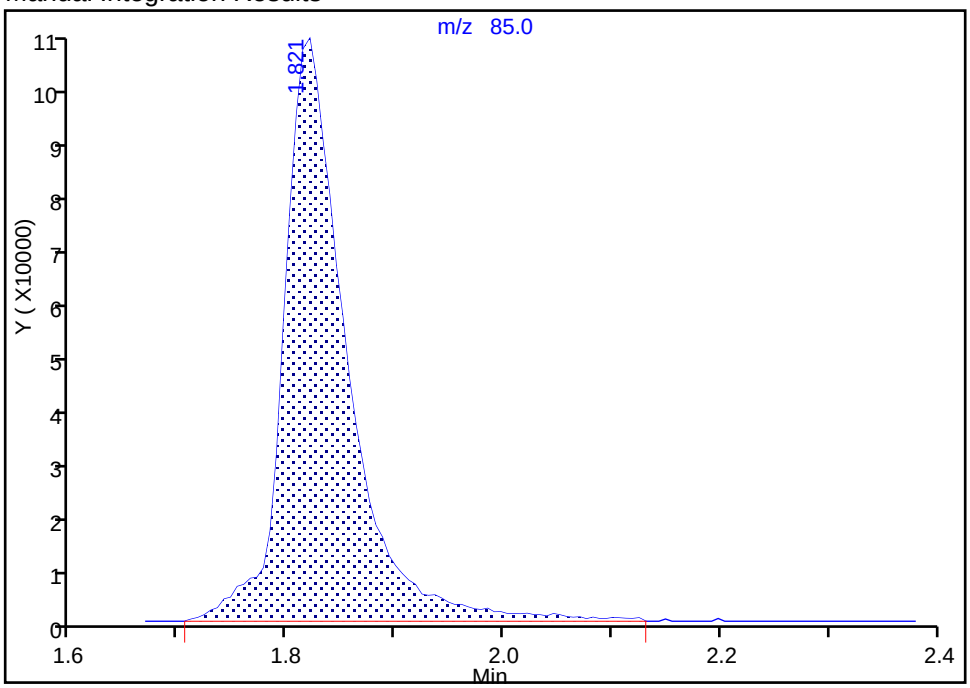
Processing Integration Results

RT: 1.82
Area: 404116
Amount: 53.532093
Amount Units: ug/kg



Manual Integration Results

RT: 1.82
Area: 421562
Amount: 55.843115
Amount Units: ug/kg



Reviewer: moffata, 25-Jul-2017 09:12:23
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20170720-64196.b\F6324.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 20-Jul-2017 10:51:30 ALS Bottle#: 1 Worklist Smp#: 2
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info: BFB
Misc. Info.: 480-0064196-002
Operator ID: CDC Instrument ID: HP5973F

Method: \\ChromNA\Buffalo\ChromData\HP5973F\20170720-64196.b\F-8260 SOIL.m
Limit Group: MV - 8260C ICAL
Last Update: 20-Jul-2017 22:51:22 Calib Date: 20-Jul-2017 17:41:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973F\20170720-64196.b\F6340.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK024

First Level Reviewer: cwiklinc Date: 20-Jul-2017 10:56:08

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
$ 61 BFB	95	5.363	5.363	0.000	0	117615	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

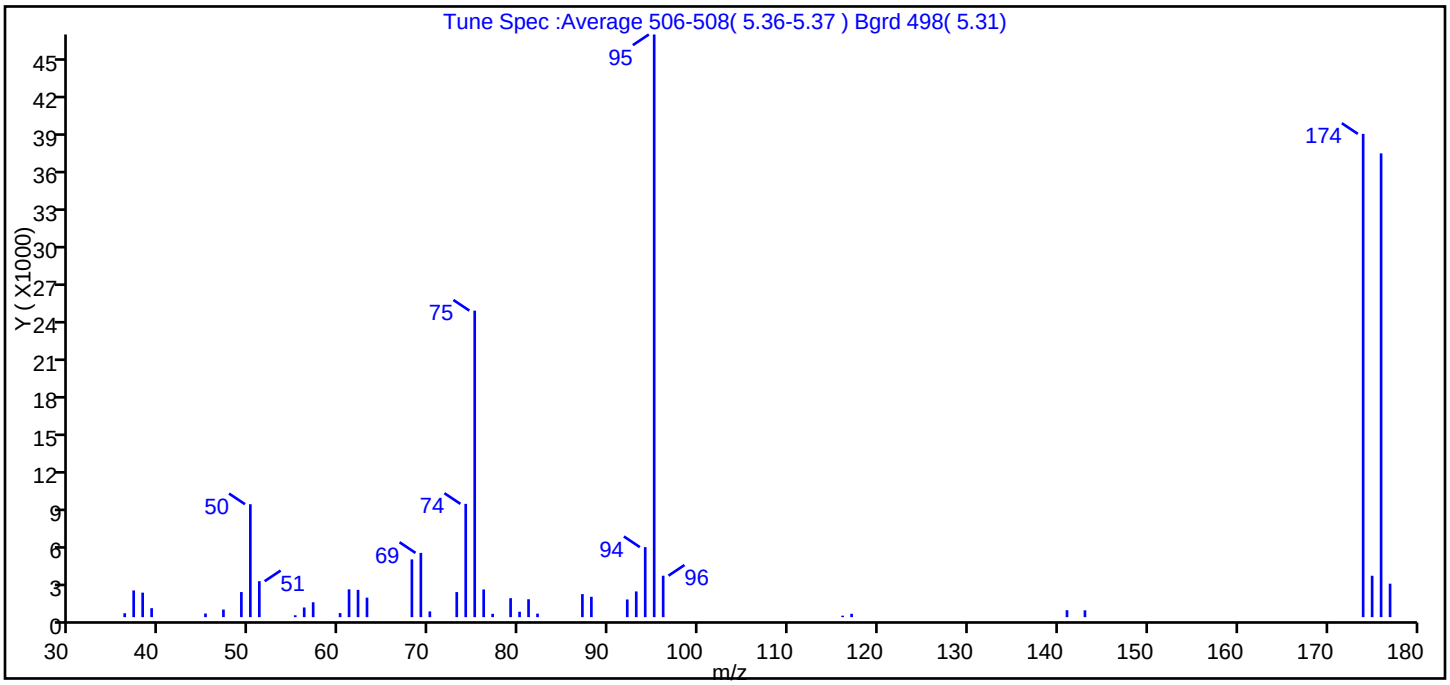
BFB_WRK_00063 Amount Added: 1.00 Units: uL

MS Tune Report

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20170720-64196.b\F6324.D
Injection Date: 20-Jul-2017 10:51:30 Instrument ID: HP5973F
Lims ID: BFB
Client ID:
Operator ID: CDC ALS Bottle#: 1 Worklist Smp#: 2
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Method: F-8260 SOIL Limit Group: MV - 8260C ICAL
Tune Method: BFB Method 8260

$ 61 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	19.4
75	30 to 60% of m/z 95	52.6
96	5 to 9% of m/z 95	7.1
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	82.9
175	5 to 9% of m/z 174	7.1 (8.6)
176	Greater than 95% but less than 101% of m/z 174	79.6 (96.0)
177	5 to 9% of m/z 176	5.7 (7.2)

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20170720-64196.b\F6324.D\F-8260 SOIL.rslt\spectra.d
Injection Date: 20-Jul-2017 10:51:30
Spectrum: Tune Spec :Average 506-508(5.36-5.37) Bgrd 498(5.31)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 43

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	313	57.00	1195	76.00	2223	95.00	46808
37.00	2145	60.00	326	77.00	269	96.00	3330
38.00	1967	61.00	2234	79.00	1524	116.00	118
39.00	721	62.00	2189	80.00	435	117.00	270
45.00	292	63.00	1568	81.00	1438	141.00	556
47.00	613	68.00	4640	82.00	284	143.00	548
49.00	2015	69.00	5161	87.00	1851	174.00	38824
50.00	9072	70.00	460	88.00	1635	175.00	3325
51.00	2887	73.00	2014	92.00	1420	176.00	37256
55.00	151	74.00	9100	93.00	2066	177.00	2689
56.00	778	75.00	24624	94.00	5624		

TestAmerica Buffalo
Target Compound Quantitation Report

Data File:	\\ChromNA\Buffalo\ChromData\HP5973F\20170725-64296.b\F6438.D				
Lims ID:	BFB				
Client ID:					
Sample Type:	BFB				
Inject. Date:	25-Jul-2017 08:25:30	ALS Bottle#:	2	Worklist Smp#:	2
Injection Vol:	1.0 uL	Dil. Factor:	1.0000		
Sample Info:	BFB				
Misc. Info.:	480-0064296-002				
Operator ID:	AM/LH	Instrument ID:	HP5973F		
Method:	\\ChromNA\Buffalo\ChromData\HP5973F\20170725-64296.b\F-8260 SOIL.m				
Limit Group:	MV - 8260C ICAL				
Last Update:	25-Jul-2017 08:28:42	Calib Date:	20-Jul-2017 17:41:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Buffalo\ChromData\HP5973F\20170720-64196.b\F6340.D				
Column 1 :	ZB-624 (0.25 mm)		Det: MS SCAN		
Process Host:	XAWRK013				

First Level Reviewer: moffata Date: 25-Jul-2017 08:28:42

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
$ 61 BFB	95	5.357	5.357	0.000	0	133913	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

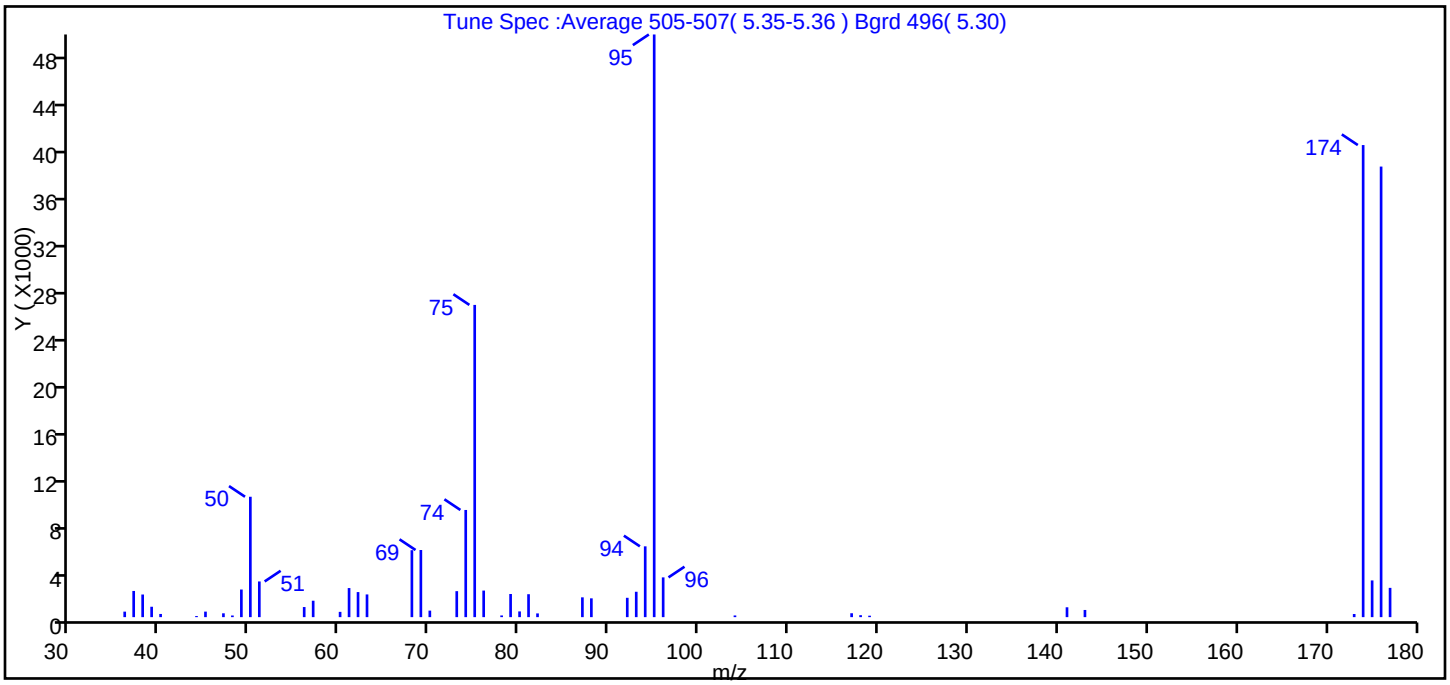
BFB_WRK_00063 Amount Added: 1.00 Units: uL

MS Tune Report

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20170725-64296.b\F6438.D
Injection Date: 25-Jul-2017 08:25:30 Instrument ID: HP5973F
Lims ID: BFB
Client ID:
Operator ID: AM/LH ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Method: F-8260 SOIL Limit Group: MV - 8260C ICAL
Tune Method: BFB Method 8260

$ 61 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	20.7
75	30 to 60% of m/z 95	53.6
96	5 to 9% of m/z 95	6.8
173	Less than 2% of m/z 174	0.5 (0.7)
174	50 to 120% of m/z 95	81.0
175	5 to 9% of m/z 174	6.3 (7.8)
176	Greater than 95% but less than 101% of m/z 174	77.3 (95.4)
177	5 to 9% of m/z 176	5.0 (6.5)

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20170725-64296.b\F6438.D\F-8260 SOIL.rslt\spectra.d
Injection Date: 25-Jul-2017 08:25:30
Spectrum: Tune Spec :Average 505-507(5.35-5.36) Bgrd 496(5.30)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 48

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	465	56.00	853	76.00	2243	96.00	3357
37.00	2211	57.00	1387	78.00	143	104.00	142
38.00	1911	60.00	446	79.00	1954	117.00	330
39.00	877	61.00	2455	80.00	484	118.00	165
40.00	269	62.00	2116	81.00	1936	119.00	123
44.00	93	63.00	1917	82.00	315	141.00	833
45.00	467	68.00	5652	87.00	1672	143.00	606
47.00	324	69.00	5668	88.00	1588	173.00	265
48.00	139	70.00	551	92.00	1633	174.00	39856
49.00	2332	73.00	2194	93.00	2143	175.00	3100
50.00	10164	74.00	9048	94.00	5978	176.00	38040
51.00	3013	75.00	26360	95.00	49192	177.00	2472

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121321-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 480-368516/2-A

Matrix: Solid | Lab File ID: F6443.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(g) | Date Analyzed: 07/25/2017 10:52

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) ID: 0.25(mm)

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

Analysis Batch No.: 368496 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		5.0	0.36
79-34-5	1,1,2,2-Tetrachloroethane	ND		5.0	0.81
79-00-5	1,1,2-Trichloroethane	ND		5.0	0.65
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.1
75-34-3	1,1-Dichloroethane	ND		5.0	0.61
75-35-4	1,1-Dichloroethene	ND		5.0	0.61
120-82-1	1,2,4-Trichlorobenzene	0.539	J	5.0	0.30
96-12-8	1,2-Dibromo-3-Chloropropane	ND		5.0	2.5
106-93-4	1,2-Dibromoethane	ND		5.0	0.64
95-50-1	1,2-Dichlorobenzene	ND		5.0	0.39
107-06-2	1,2-Dichloroethane	ND		5.0	0.25
78-87-5	1,2-Dichloropropane	ND		5.0	2.5
541-73-1	1,3-Dichlorobenzene	ND		5.0	0.26
106-46-7	1,4-Dichlorobenzene	ND		5.0	0.70
591-78-6	2-Hexanone	ND		25	2.5
78-93-3	2-Butanone (MEK)	ND		25	1.8
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		25	1.6
67-64-1	Acetone	4.82	J	25	4.2
71-43-2	Benzene	ND		5.0	0.25
75-27-4	Bromodichloromethane	ND		5.0	0.67
75-25-2	Bromoform	ND		5.0	2.5
74-83-9	Bromomethane	ND		5.0	0.45
75-15-0	Carbon disulfide	ND		5.0	2.5
56-23-5	Carbon tetrachloride	ND		5.0	0.48
108-90-7	Chlorobenzene	ND		5.0	0.66
124-48-1	Dibromochloromethane	ND		5.0	0.64
75-00-3	Chloroethane	ND		5.0	1.1
67-66-3	Chloroform	ND		5.0	0.31
74-87-3	Chloromethane	ND		5.0	0.30
156-59-2	cis-1,2-Dichloroethene	ND		5.0	0.64
10061-01-5	cis-1,3-Dichloropropene	ND		5.0	0.72
110-82-7	Cyclohexane	ND		5.0	0.70
75-71-8	Dichlorodifluoromethane	ND		5.0	0.41
100-41-4	Ethylbenzene	ND		5.0	0.35
98-82-8	Isopropylbenzene	ND		5.0	0.75

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121321-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 480-368516/2-A

Matrix: Solid | Lab File ID: F6443.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(g) | Date Analyzed: 07/25/2017 10:52

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) ID: 0.25(mm)

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

Analysis Batch No.: 368496 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		25	3.0
1634-04-4	Methyl tert-butyl ether	ND		5.0	0.49
108-87-2	Methylcyclohexane	ND		5.0	0.76
75-09-2	Methylene Chloride	ND		5.0	2.3
100-42-5	Styrene	ND		5.0	0.25
127-18-4	Tetrachloroethene	ND		5.0	0.67
108-88-3	Toluene	ND		5.0	0.38
156-60-5	trans-1,2-Dichloroethene	ND		5.0	0.52
10061-02-6	trans-1,3-Dichloropropene	ND		5.0	2.2
79-01-6	Trichloroethene	ND		5.0	1.1
75-69-4	Trichlorofluoromethane	ND		5.0	0.47
75-01-4	Vinyl chloride	ND		5.0	0.61
1330-20-7	Xylenes, Total	ND		10	0.84

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		64-126
2037-26-5	Toluene-d8 (Surr)	99		71-125
460-00-4	4-Bromofluorobenzene (Surr)	98		72-126

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20170725-64296.b\F6443.D
Lims ID: MB 480-368516/2-A
Client ID:
Sample Type: MB
Inject. Date: 25-Jul-2017 10:52:30 ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: MB
Misc. Info.: 480-0064296-007
Operator ID: AM/LH Instrument ID: HP5973F

Method: \\ChromNA\Buffalo\ChromData\HP5973F\20170725-64296.b\F-8260 SOIL.m
Limit Group: MV - 8260C ICAL
Last Update: 25-Jul-2017 11:15:52 Calib Date: 20-Jul-2017 17:41:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973F\20170720-64196.b\F6340.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK013

First Level Reviewer: moffata Date: 25-Jul-2017 11:15:52

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
* 153 Fluorobenzene (IS)	70	5.215	5.209	0.006	98	224257	50.0	50.0	
* 2 Chlorobenzene-d5	82	8.014	8.014	0.000	88	469846	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.380	10.380	0.000	96	450939	50.0	50.0	
$ 154 Dibromofluoromethane (Surr	113	4.698	4.692	0.006	92	306075	50.0	52.0	
$ 4 1,2-Dichloroethane-d4 (Sur	67	4.978	4.972	0.006	0	198584	50.0	52.1	
$ 5 Toluene-d8 (Surr)	98	6.578	6.578	0.000	94	1095983	50.0	49.4	
$ 6 4-Bromofluorobenzene (Surr	174	9.243	9.243	0.000	92	368173	50.0	49.0	
10 Dichlorodifluoromethane	85		1.821					ND	
11 Chlorodifluoromethane	51		1.827					ND	
12 Chloromethane	50		1.948					ND	
13 Vinyl chloride	62		2.058					ND	
151 Butadiene	54		2.070					ND	
14 Bromomethane	94		2.338					ND	
15 Chloroethane	64		2.411					ND	
16 Dichlorofluoromethane	67		2.563					ND	
17 Trichlorofluoromethane	101		2.593					ND	
148 Ethanol	45		2.764					ND	
18 Ethyl ether	59		2.782					ND	
19 Propene oxide	58		2.867					ND	
20 Acrolein	56		2.934					ND	
21 1,1,2-Trichloro-1,2,2-trif	101		2.964					ND	
22 1,1-Dichloroethene	96		2.989					ND	
23 Acetone	43	3.062	3.043	0.019	100	9823		4.82	
24 Isopropyl alcohol	45		3.129					ND	
25 Iodomethane	142		3.141					ND	
26 Carbon disulfide	76		3.195					ND	
28 3-Chloro-1-propene	41		3.256					ND	
27 Methyl acetate	43		3.256					ND	
29 Acetonitrile	40		3.287					ND	
31 2-Methyl-2-propanol	59		3.421					ND	
32 Methyl tert-butyl ether	73		3.518					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
34 trans-1,2-Dichloroethene	96		3.548					ND	
33 Acrylonitrile	53		3.560					ND	
35 Hexane	57	3.694	3.682	0.012	92	3043		0.3438	
36 Isopropyl ether	45		3.834					ND	
134 Halothane	117		3.834					ND	
37 Vinyl acetate	43		3.859					ND	
39 1,1-Dichloroethane	63		3.877					ND	
38 1,1-Dimethoxyethane	75		3.901					ND	
40 2-Chloro-1,3-butadiene	53		3.926					ND	
41 Tert-butyl ethyl ether	59		4.108					ND	
42 Ethyl acetate	43		4.303					ND	
43 2-Butanone (MEK)	43		4.309					ND	
44 2,2-Dichloropropane	77		4.309					ND	
45 cis-1,2-Dichloroethene	96		4.321					ND	
46 Propionitrile	54		4.406					ND	
47 Methacrylonitrile	41		4.491					ND	
48 Chlorobromomethane	128		4.522					ND	
49 Tetrahydrofuran	42		4.540					ND	
50 Chloroform	83		4.558					ND	
51 1,1,1-Trichloroethane	97		4.698					ND	
52 Cyclohexane	56		4.728					ND	
54 1,1-Dichloropropene	75		4.820					ND	
55 Carbon tetrachloride	117		4.826					ND	
53 Isobutyl alcohol	43		4.887					ND	
147 t-Amyl alcohol	59		4.954					ND	
152 Isooctane	57		4.966					ND	
57 Benzene	78		5.002					ND	
56 Tert-amyl methyl ether	73		5.015					ND	
59 n-Heptane	43		5.093					ND	
1 1,4-Difluorobenzene	114		5.276					ND	
136 2,4,4-Trimethyl-1-pentene	55		5.398					ND	
60 n-Butanol	56		5.416					ND	
62 Trichloroethene	95		5.513					ND	
137 Ethyl acrylate	55		5.586					ND	
135 2,4,4-Trimethyl-2-pentene	97		5.586					ND	
64 Methylcyclohexane	83		5.653					ND	
65 1,2-Dichloropropane	63		5.732					ND	
63 Methyl methacrylate	41		5.751					ND	
66 1,4-Dioxane	88		5.836					ND	
67 Dibromomethane	93		5.866					ND	
68 Dichlorobromomethane	83		5.976					ND	
69 2-Chloroethyl vinyl ether	63		6.182					ND	
70 2-Nitropropane	43		6.183					ND	
71 Epichlorohydrin	57		6.298					ND	
72 cis-1,3-Dichloropropene	75		6.353					ND	
73 4-Methyl-2-pentanone (MIBK	43	6.468	6.456	0.012	92	3611		0.6720	
74 Toluene	92		6.645					ND	
76 2-Methylthiophene	97		6.779					ND	
77 trans-1,3-Dichloropropene	75		6.864					ND	
75 Ethyl methacrylate	69		6.870					ND	
78 3-Methylthiophene	97		6.931					ND	
79 1,1,2-Trichloroethane	83		7.065					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
81 Tetrachloroethene	166		7.162					ND	
82 1,3-Dichloropropane	76		7.223					ND	
80 2-Hexanone	43	7.247	7.241	0.006	95	7594		1.96	
155 n-Butyl acetate	43		7.320					ND	
83 Chlorodibromomethane	129		7.466					ND	
84 Ethylene Dibromide	107		7.588					ND	
146 1-Chlorohexane	55		7.947					ND	
85 3-Chlorobenzotrifluoride	180		7.953					ND	
86 4-Chlorobenzotrifluoride	180		8.008					ND	
87 Chlorobenzene	112		8.044					ND	
88 Ethylbenzene	91		8.111					ND	
89 1,1,1,2-Tetrachloroethane	131		8.123					ND	
90 m-Xylene & p-Xylene	106		8.227					ND	
91 o-Xylene	106		8.652					ND	
92 Styrene	104		8.677					ND	
93 2-Chlorobenzotrifluoride	180		8.932					ND	
95 Bromoform	173		8.950					ND	
94 Isopropylbenzene	105		9.023					ND	
96 Cyclohexanone	55		9.218					ND	
101 Bromobenzene	156		9.413					ND	
97 1,1,2,2-Tetrachloroethane	83		9.413					ND	
99 N-Propylbenzene	91		9.455					ND	
98 trans-1,4-Dichloro-2-buten	53		9.455					ND	
100 1,2,3-Trichloropropane	110		9.462					ND	
103 2-Chlorotoluene	126		9.583					ND	
102 1,3,5-Trimethylbenzene	105		9.632					ND	
104 3-Chlorotoluene	126		9.644					ND	
105 4-Chlorotoluene	126		9.693					ND	
106 tert-Butylbenzene	134		9.954					ND	
108 Pentachloroethane	167		10.027					ND	
109 sec-Butylbenzene	105		10.161					ND	
111 1,3-Dichlorobenzene	146		10.319					ND	
114 Dicyclopentadiene	66		10.392					ND	
113 1,4-Dichlorobenzene	146		10.404					ND	
112 1,2,3-Trimethylbenzene	105		10.417					ND	
150 Benzyl chloride	126		10.532					ND	
117 1,2-Dibromo-3-Chloropropan	75		11.439					ND	
118 1,3,5-Trichlorobenzene	180		11.567					ND	
119 1,2,4-Trichlorobenzene	180	12.071	12.071	0.000	88	5082		0.5386	
120 Hexachlorobutadiene	225		12.169					ND	
121 Naphthalene	128	12.290	12.290	0.000	97	19720		0.9509	
122 1,2,3-Trichlorobenzene	180	12.497	12.497	0.000	90	4987		0.5776	
149 2-Methylnaphthalene	142	13.300	13.306	-0.006	86	5887		0.4753	
143 Propene oxide TIC	1		0.000					ND	
156 1-Chloro-1-fluoroethane TI	1		0.000					ND	
145 Ethylene oxide TIC	1		0.000					ND	
144 1-Bromopropane TIC	1		0.000					ND	
S 125 1,2-Dichloroethene, Total	1		30.000					ND	
S 126 1,3-Dichloropropene, Total	1		30.000					ND	
S 123 Total BTEX	1		30.000					ND	
S 124 Xylenes, Total	1		30.000					ND	
T 142 1-Bromopropane	1		0.000					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
T 127 Ethanol TIC	45		0.000					ND	
T 140 bis(chloromethyl)ether TIC	1		0.000					ND	
T 7 Ethylene oxide	1		0.000					ND	
T 128 Hexachloroethane TIC	1		0.000					ND	
T 129 tert-amyl alcohol TIC	59		0.000					ND	
T 9 bis(2-chloromethyl)ether T	1		0.000					ND	
T 131 Nitrobenzene	77		0.000					ND	
T 139 Bromoethane TIC	1		0.000					ND	
T 132 Methyl acrylate	1		0.000					ND	
T 141 Pentachloroethane TIC	1		0.000					ND	
T 138 Aziridine TIC	1		0.000					ND	
T 133 cis-1,4-Dichloro-2-butene	88		0.000					ND	
T 130 Hexachloroethane	117		0.000					ND	

Reagents:

F 8260 SURR_00239	Amount Added:	1.00	Units: uL	Run Reagent
F 8260 IS_00556	Amount Added:	1.00	Units: uL	Run Reagent

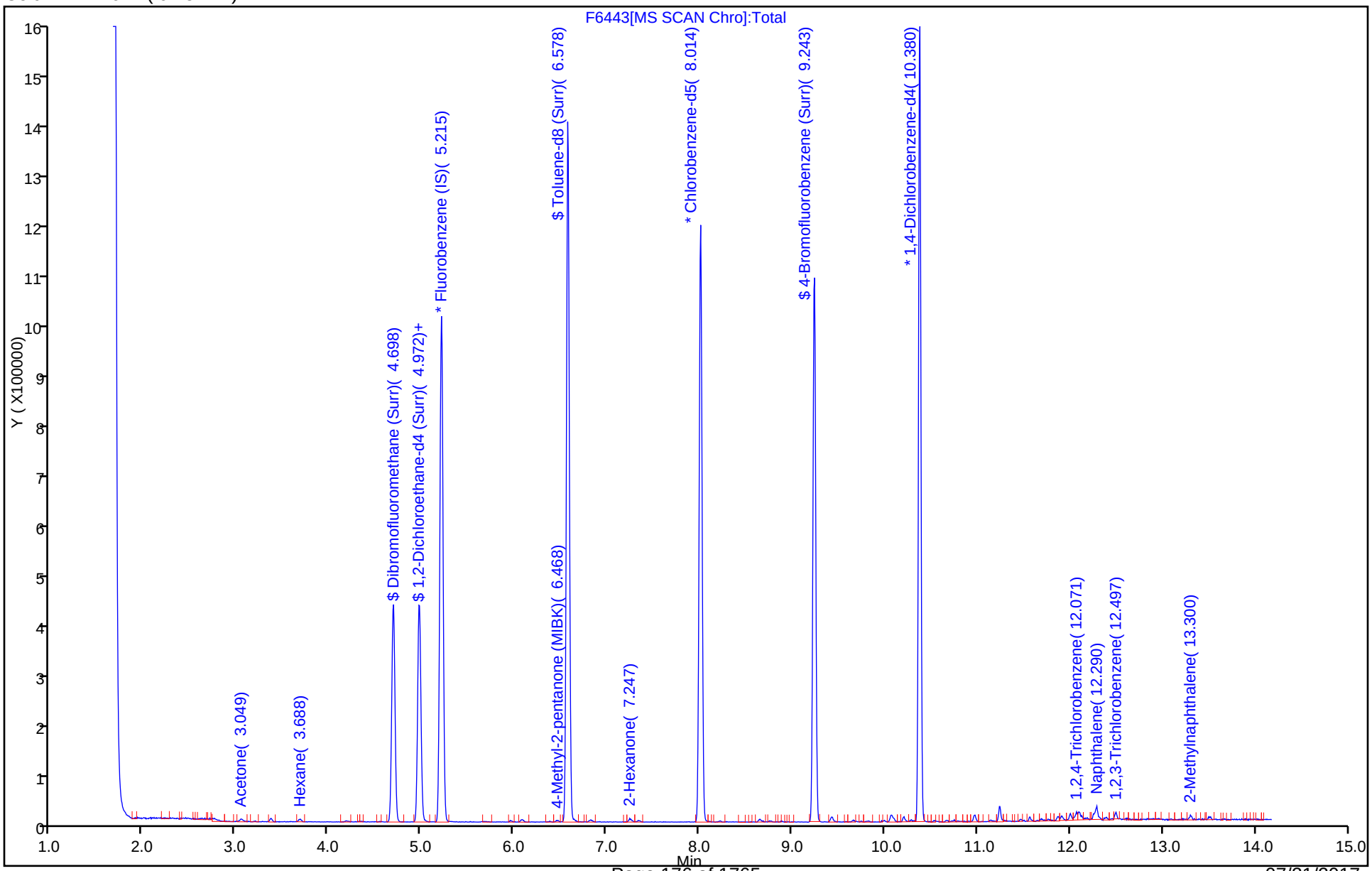
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TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20170725-64296.b\F6443.D

Injection Date:	25-Jul-2017 10:52:30	Instrument ID:	HP5973F	Operator ID:	AM/LH
Lims ID:	MB 480-368516/2-A			Worklist Smp#:	7
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		

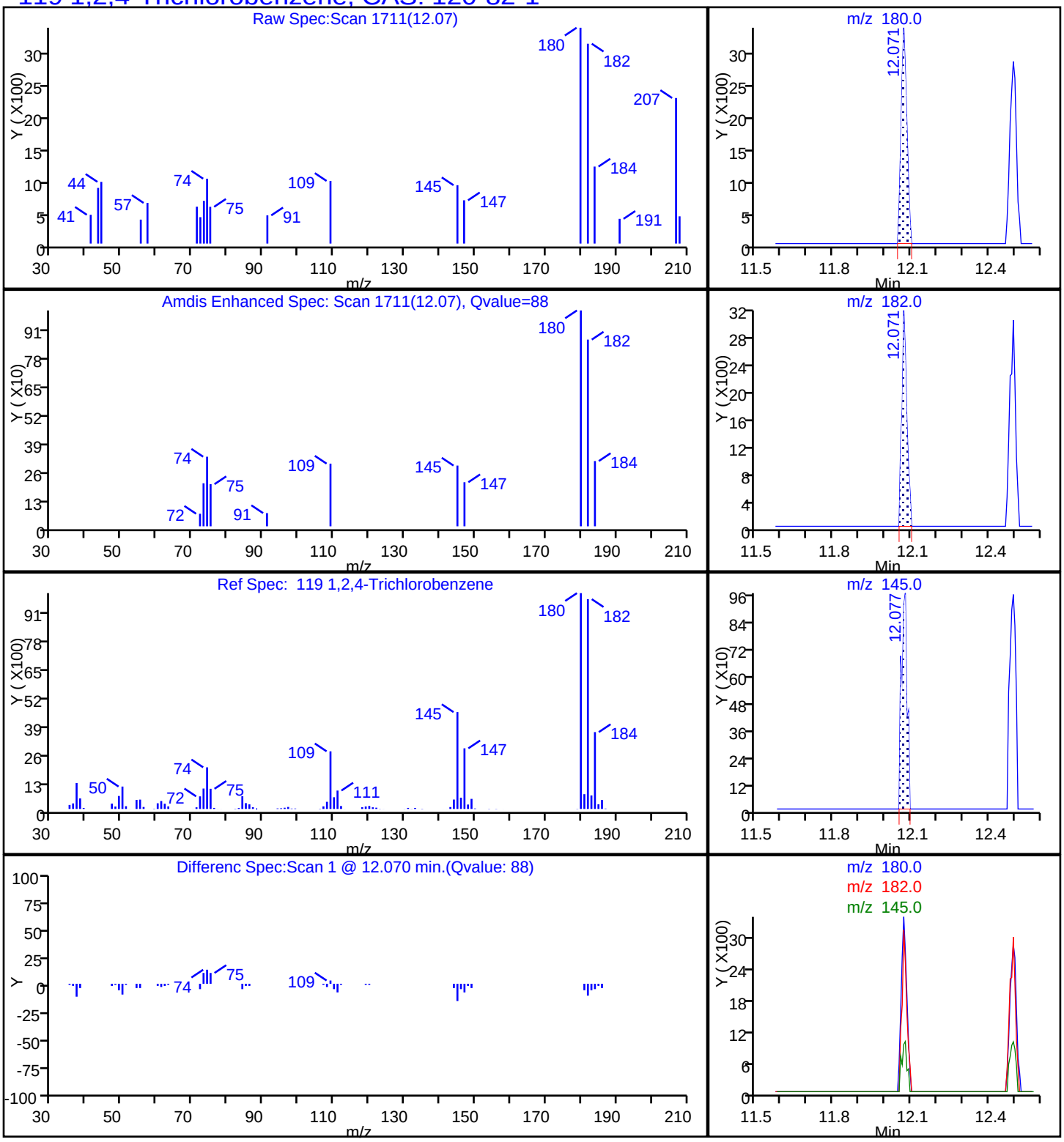
Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20170725-64296.b\F6443.D
Injection Date: 25-Jul-2017 10:52:30 Instrument ID: HP5973F
Lims ID: MB 480-368516/2-A
Client ID:
Operator ID: AM/LH ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: F-8260 SOIL Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

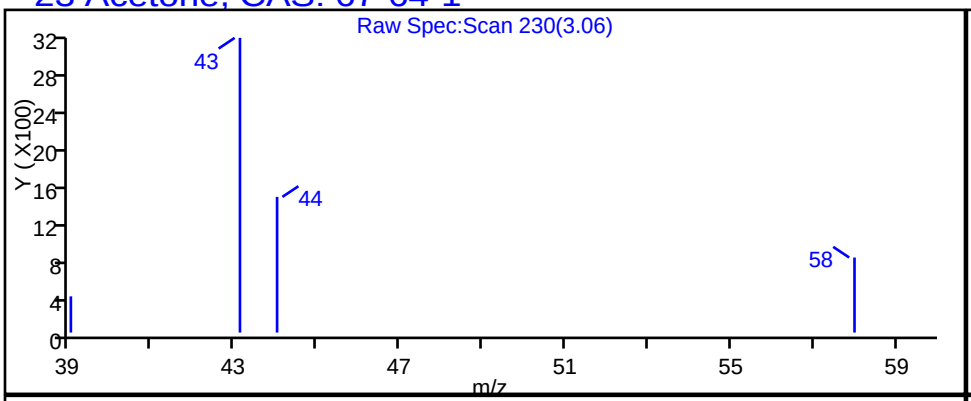
119 1,2,4-Trichlorobenzene, CAS: 120-82-1

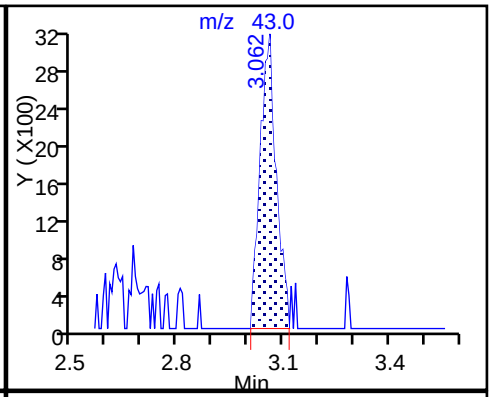


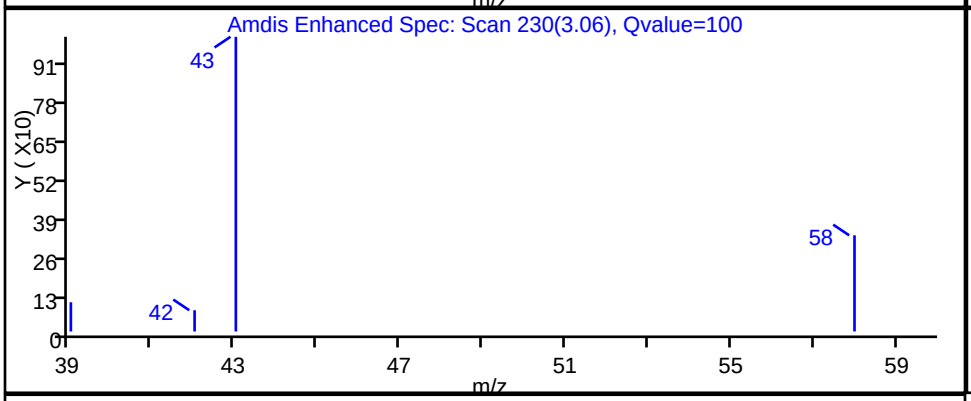
TestAmerica Buffalo

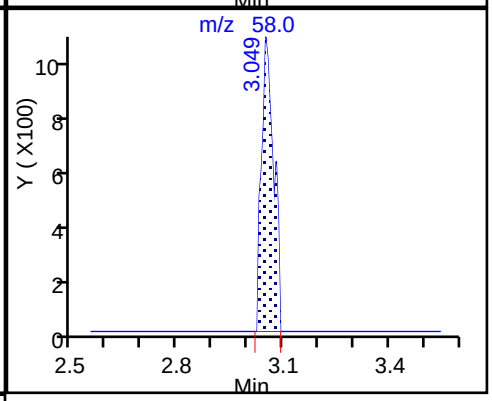
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Injection Date: 25-Jul-2017 10:52:30 Instrument ID: HP5973F
Lims ID: MB 480-368516/2-A
Client ID:
Operator ID: AM/LH ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: F-8260 SOIL Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

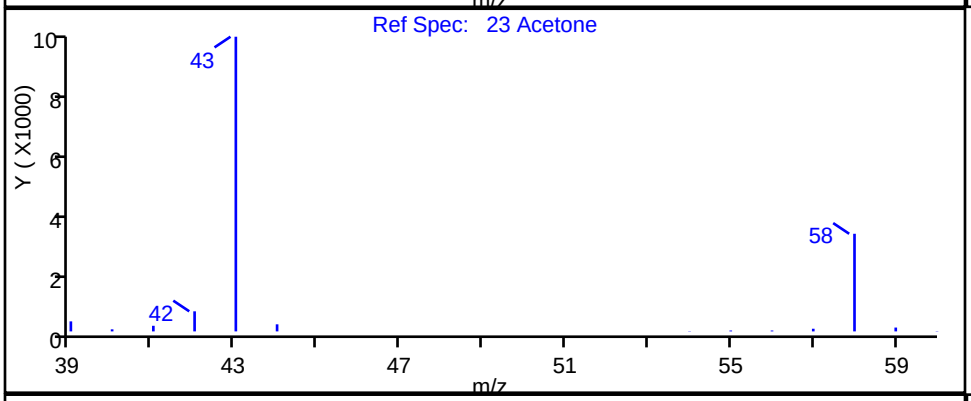
23 Acetone, CAS: 67-64-1

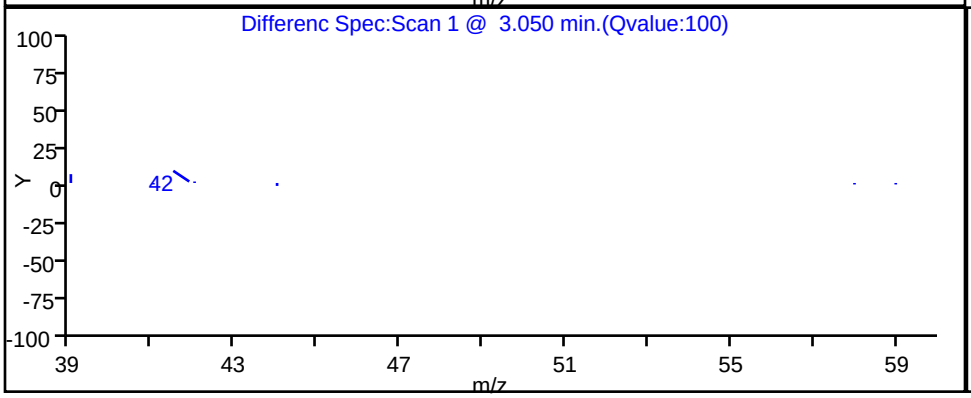


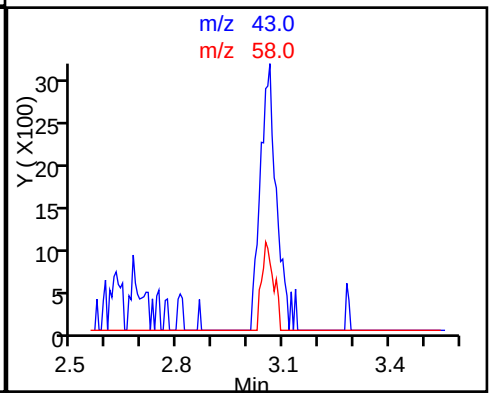












FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121321-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 480-368516/1-A

Matrix: Solid | Lab File ID: F6441.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(g) | Date Analyzed: 07/25/2017 10:01

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) ID: 0.25(mm)

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

Analysis Batch No.: 368496 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	45.4		5.0	0.36
79-34-5	1,1,2,2-Tetrachloroethane	53.2		5.0	0.81
79-00-5	1,1,2-Trichloroethane	49.1		5.0	0.65
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	38.7		5.0	1.1
75-34-3	1,1-Dichloroethane	46.4		5.0	0.61
75-35-4	1,1-Dichloroethene	41.1		5.0	0.61
120-82-1	1,2,4-Trichlorobenzene	45.8		5.0	0.30
96-12-8	1,2-Dibromo-3-Chloropropane	59.9		5.0	2.5
106-93-4	1,2-Dibromoethane	51.2		5.0	0.64
95-50-1	1,2-Dichlorobenzene	47.0		5.0	0.39
107-06-2	1,2-Dichloroethane	49.9		5.0	0.25
78-87-5	1,2-Dichloropropane	47.2		5.0	2.5
541-73-1	1,3-Dichlorobenzene	46.6		5.0	0.26
106-46-7	1,4-Dichlorobenzene	46.5		5.0	0.70
591-78-6	2-Hexanone	287		25	2.5
78-93-3	2-Butanone (MEK)	297		25	1.8
108-10-1	4-Methyl-2-pentanone (MIBK)	276		25	1.6
67-64-1	Acetone	296		25	4.2
71-43-2	Benzene	45.5		5.0	0.25
75-27-4	Bromodichloromethane	53.9		5.0	0.67
75-25-2	Bromoform	52.2		5.0	2.5
74-83-9	Bromomethane	69.5		5.0	0.45
75-15-0	Carbon disulfide	39.0		5.0	2.5
56-23-5	Carbon tetrachloride	49.2		5.0	0.48
108-90-7	Chlorobenzene	45.3		5.0	0.66
124-48-1	Dibromochloromethane	50.1		5.0	0.64
75-00-3	Chloroethane	69.9		5.0	1.1
67-66-3	Chloroform	46.9		5.0	0.31
74-87-3	Chloromethane	48.5		5.0	0.30
156-59-2	cis-1,2-Dichloroethene	47.5		5.0	0.64
10061-01-5	cis-1,3-Dichloropropene	50.3		5.0	0.72
110-82-7	Cyclohexane	39.3		5.0	0.70
75-71-8	Dichlorodifluoromethane	42.9		5.0	0.41
100-41-4	Ethylbenzene	45.3		5.0	0.35
98-82-8	Isopropylbenzene	44.1		5.0	0.75

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121321-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 480-368516/1-A

Matrix: Solid | Lab File ID: F6441.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(g) | Date Analyzed: 07/25/2017 10:01

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) ID: 0.25(mm)

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

Analysis Batch No.: 368496 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	282		25	3.0
1634-04-4	Methyl tert-butyl ether	51.8		5.0	0.49
108-87-2	Methylcyclohexane	38.0		5.0	0.76
75-09-2	Methylene Chloride	49.4		5.0	2.3
100-42-5	Styrene	45.8		5.0	0.25
127-18-4	Tetrachloroethene	41.6		5.0	0.67
108-88-3	Toluene	44.3		5.0	0.38
156-60-5	trans-1,2-Dichloroethene	44.4		5.0	0.52
10061-02-6	trans-1,3-Dichloropropene	52.7		5.0	2.2
79-01-6	Trichloroethene	44.2		5.0	1.1
75-69-4	Trichlorofluoromethane	43.6		5.0	0.47
75-01-4	Vinyl chloride	45.4		5.0	0.61
1330-20-7	Xylenes, Total	89.7		10	0.84

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	107		64-126
2037-26-5	Toluene-d8 (Surr)	100		71-125
460-00-4	4-Bromofluorobenzene (Surr)	98		72-126

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20170725-64296.b\F6441.D
Lims ID: LCS 480-368516/1-A
Client ID:
Sample Type: LCS
Inject. Date: 25-Jul-2017 10:01:30 ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCS
Misc. Info.: 480-0064296-005
Operator ID: AM/LH Instrument ID: HP5973F

Method: \\ChromNA\Buffalo\ChromData\HP5973F\20170725-64296.b\F-8260 SOIL.m
Limit Group: MV - 8260C ICAL
Last Update: 25-Jul-2017 10:23:47 Calib Date: 20-Jul-2017 17:41:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973F\20170720-64196.b\F6340.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK013

First Level Reviewer: moffata Date: 25-Jul-2017 10:23:47

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
* 153 Fluorobenzene (IS)	70	5.215	5.209	0.006	98	244096	50.0	50.0	
* 2 Chlorobenzene-d5	82	8.014	8.014	0.000	88	507554	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.380	10.380	0.000	95	507503	50.0	50.0	
$ 154 Dibromofluoromethane (Surr	113	4.692	4.692	0.000	93	335555	50.0	52.4	
$ 4 1,2-Dichloroethane-d4 (Sur	67	4.978	4.972	0.006	0	220849	50.0	53.3	
$ 5 Toluene-d8 (Surr)	98	6.578	6.578	0.000	94	1200112	50.0	50.1	
$ 6 4-Bromofluorobenzene (Surr	174	9.243	9.243	0.000	87	399927	50.0	49.2	
10 Dichlorodifluoromethane	85	1.821	1.821	0.000	99	325458	50.0	42.9	
12 Chloromethane	50	1.954	1.948	0.006	99	308430	50.0	48.5	
13 Vinyl chloride	62	2.064	2.058	0.006	98	274667	50.0	45.4	
151 Butadiene	54	2.076	2.070	0.006	92	223955	50.0	41.0	
14 Bromomethane	94	2.344	2.338	0.006	93	147921	50.0	69.5	
15 Chloroethane	64	2.417	2.411	0.006	100	130759	50.0	69.9	
16 Dichlorofluoromethane	67	2.569	2.563	0.006	97	346904	50.0	48.9	
17 Trichlorofluoromethane	101	2.611	2.593	0.018	98	340935	50.0	43.6	
18 Ethyl ether	59	2.788	2.782	0.006	89	222847	50.0	55.3	
20 Acrolein	56	2.940	2.934	0.006	99	256854	250.0	254.8	
21 1,1,2-Trichloro-1,2,2-trif	101	2.970	2.964	0.006	92	253077	50.0	38.7	
22 1,1-Dichloroethene	96	2.995	2.989	0.006	97	243086	50.0	41.1	
23 Acetone	43	3.050	3.043	0.007	99	656078	250.0	295.8	
25 Iodomethane	142	3.147	3.141	0.006	99	566873	50.0	46.3	
26 Carbon disulfide	76	3.202	3.195	0.007	100	835357	50.0	39.0	
28 3-Chloro-1-propene	41	3.262	3.256	0.006	83	441672	50.0	45.4	
27 Methyl acetate	43	3.262	3.256	0.006	96	1223252	250.0	282.5	
30 Methylene Chloride	84	3.372	3.366	0.006	91	333483	50.0	49.4	
31 2-Methyl-2-propanol	59	3.427	3.421	0.007	99	439039	500.0	593.7	
32 Methyl tert-butyl ether	73	3.518	3.518	0.000	94	1023168	50.0	51.8	
34 trans-1,2-Dichloroethene	96	3.554	3.548	0.006	97	301025	50.0	44.4	
33 Acrylonitrile	53	3.567	3.560	0.007	97	1149582	500.0	538.1	
35 Hexane	57	3.688	3.682	0.006	92	356229	50.0	37.0	
37 Vinyl acetate	43	3.865	3.859	0.006	97	1003370	100.0	94.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
39 1,1-Dichloroethane	63	3.877	3.877	0.000	97	550665	50.0	46.4	
43 2-Butanone (MEK)	43	4.315	4.309	0.006	99	839569	250.0	297.0	
44 2,2-Dichloropropane	77	4.315	4.309	0.006	86	479041	50.0	46.2	
45 cis-1,2-Dichloroethene	96	4.321	4.321	0.000	82	356507	50.0	47.5	
48 Chlorobromomethane	128	4.528	4.522	0.006	91	175666	50.0	49.3	
49 Tetrahydrofuran	42	4.546	4.540	0.006	83	200874	100.0	113.2	
50 Chloroform	83	4.564	4.558	0.006	94	586831	50.0	46.9	
51 1,1,1-Trichloroethane	97	4.704	4.698	0.006	98	491831	50.0	45.4	
52 Cyclohexane	56	4.729	4.728	0.001	89	413120	50.0	39.3	
54 1,1-Dichloropropene	75	4.820	4.820	0.000	96	391905	50.0	42.9	
55 Carbon tetrachloride	117	4.832	4.826	0.006	97	407021	50.0	49.2	
53 Isobutyl alcohol	43	4.887	4.887	0.000	92	416338	1250.0	1447.9	
57 Benzene	78	5.002	5.002	0.000	97	1150915	50.0	45.5	
58 1,2-Dichloroethane	62	5.039	5.033	0.006	98	525100	50.0	49.9	
59 n-Heptane	43	5.100	5.093	0.007	88	340268	50.0	35.8	
62 Trichloroethene	95	5.519	5.513	0.006	96	311530	50.0	44.2	
64 Methylcyclohexane	83	5.653	5.653	0.000	89	454275	50.0	38.0	
65 1,2-Dichloropropane	63	5.732	5.732	0.000	91	296293	50.0	47.2	
66 1,4-Dioxane	88	5.848	5.836	0.012	93	49451	1000.0	681.2	
67 Dibromomethane	93	5.866	5.866	0.000	95	219118	50.0	50.3	
68 Dichlorobromomethane	83	5.976	5.976	0.000	99	429557	50.0	53.9	
69 2-Chloroethyl vinyl ether	63	6.183	6.182	0.001	93	190624	50.0	51.9	
72 cis-1,3-Dichloropropene	75	6.353	6.353	0.000	95	514806	50.0	50.3	
73 4-Methyl-2-pentanone (MIBK	43	6.456	6.456	0.000	95	1600355	250.0	275.7	
74 Toluene	92	6.645	6.645	0.000	98	744259	50.0	44.3	
77 trans-1,3-Dichloropropene	75	6.870	6.864	0.006	98	495066	50.0	52.7	
75 Ethyl methacrylate	69	6.870	6.870	0.000	86	414919	50.0	50.9	
79 1,1,2-Trichloroethane	83	7.059	7.065	-0.006	94	233795	50.0	49.1	
81 Tetrachloroethene	166	7.162	7.162	0.000	95	318352	50.0	41.6	
82 1,3-Dichloropropane	76	7.223	7.223	0.000	95	491390	50.0	48.9	
80 2-Hexanone	43	7.241	7.241	0.000	96	1205233	250.0	287.4	
83 Chlorodibromomethane	129	7.466	7.466	0.000	90	317193	50.0	50.1	
84 Ethylene Dibromide	107	7.588	7.588	0.000	97	299746	50.0	51.2	
87 Chlorobenzene	112	8.044	8.044	0.000	94	836254	50.0	45.3	
88 Ethylbenzene	91	8.111	8.111	0.000	98	1389341	50.0	45.3	
89 1,1,1,2-Tetrachloroethane	131	8.123	8.123	0.000	91	319131	50.0	53.6	
90 m-Xylene & p-Xylene	106	8.227	8.227	0.000	99	552054	50.0	44.6	
91 o-Xylene	106	8.652	8.652	0.000	97	546720	50.0	45.1	
92 Styrene	104	8.677	8.677	0.000	94	944131	50.0	45.8	
95 Bromoform	173	8.951	8.950	0.001	95	212155	50.0	52.2	
94 Isopropylbenzene	105	9.024	9.023	0.001	97	1370598	50.0	44.1	
101 Bromobenzene	156	9.413	9.413	0.000	93	393638	50.0	46.6	
97 1,1,2,2-Tetrachloroethane	83	9.413	9.413	0.000	82	383823	50.0	53.2	
99 N-Propylbenzene	91	9.456	9.455	0.001	98	1611912	50.0	44.5	
98 trans-1,4-Dichloro-2-buten	53	9.456	9.455	0.001	60	127469	50.0	57.1	
100 1,2,3-Trichloropropane	110	9.462	9.462	0.000	84	129266	50.0	52.7	
103 2-Chlorotoluene	126	9.589	9.583	0.006	96	340129	50.0	45.7	
102 1,3,5-Trimethylbenzene	105	9.626	9.632	-0.006	94	1207201	50.0	45.0	
105 4-Chlorotoluene	126	9.693	9.693	0.000	99	357436	50.0	45.6	
106 tert-Butylbenzene	134	9.954	9.954	0.000	91	264276	50.0	42.7	
107 1,2,4-Trimethylbenzene	105	10.003	10.009	-0.006	97	1261230	50.0	45.7	
109 sec-Butylbenzene	105	10.161	10.161	0.000	95	1450996	50.0	42.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
110 4-Isopropyltoluene	119	10.289	10.289	0.000	96	1278511	50.0	44.4	
111 1,3-Dichlorobenzene	146	10.319	10.319	0.000	97	760197	50.0	46.6	
113 1,4-Dichlorobenzene	146	10.405	10.404	0.001	94	764745	50.0	46.5	
115 n-Butylbenzene	91	10.666	10.666	0.000	98	1151533	50.0	43.2	
116 1,2-Dichlorobenzene	146	10.751	10.751	0.000	97	730055	50.0	47.0	
117 1,2-Dibromo-3-Chloropropan	75	11.439	11.439	0.000	84	82530	50.0	59.9	
119 1,2,4-Trichlorobenzene	180	12.071	12.071	0.000	94	485864	50.0	45.8	
120 Hexachlorobutadiene	225	12.169	12.169	0.000	98	242929	50.0	38.8	
121 Naphthalene	128	12.290	12.290	0.000	97	1179865	50.0	50.6	
122 1,2,3-Trichlorobenzene	180	12.497	12.497	0.000	95	445834	50.0	45.9	

Reagents:

F 8260 SURR_00239	Amount Added:	1.00	Units: uL	Run Reagent
F 8260 IS_00556	Amount Added:	1.00	Units: uL	Run Reagent

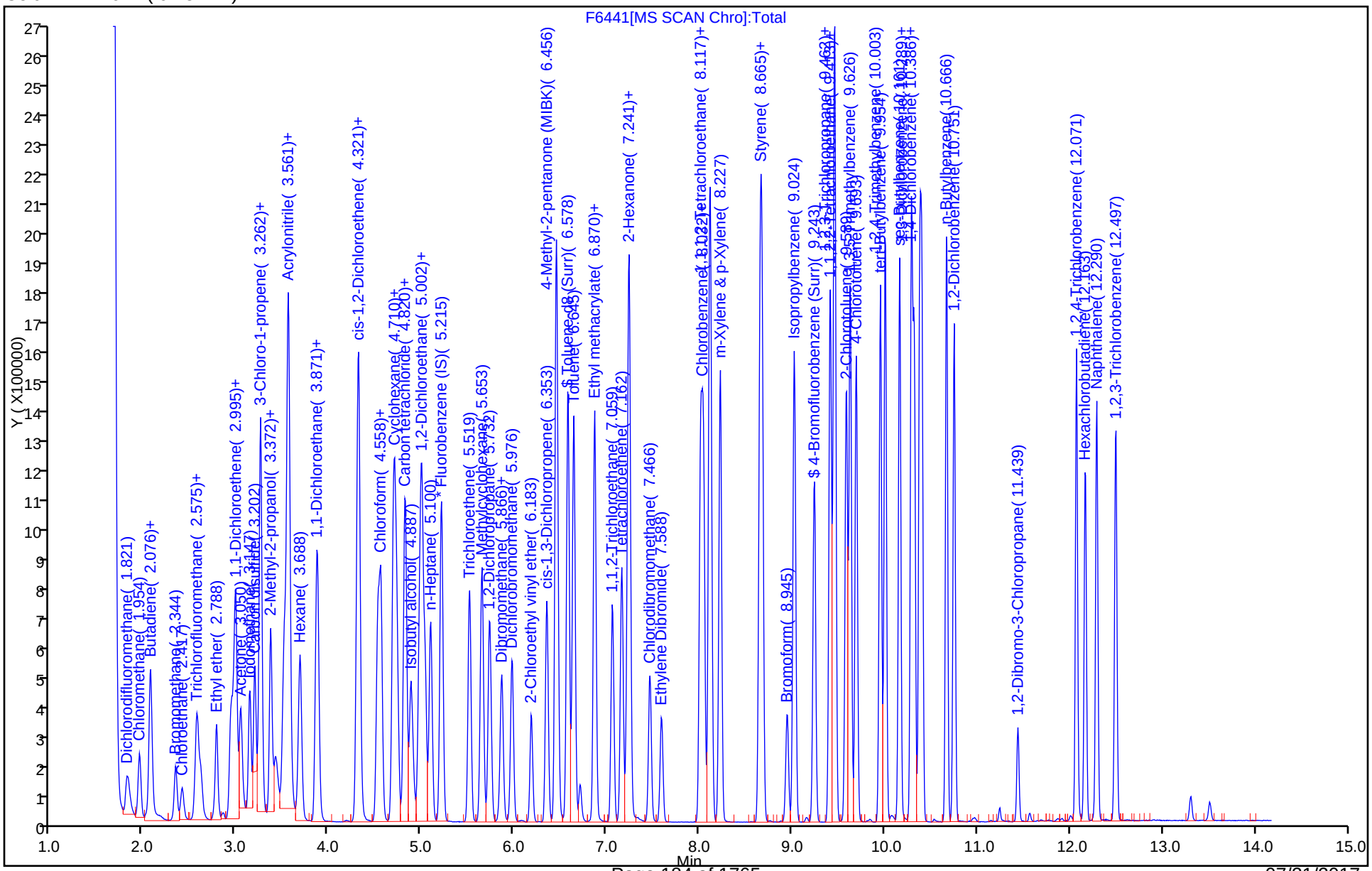
Report Date: 25-Jul-2017 10:23:48 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20170725-64296.b\F6441.D

Injection Date:	25-Jul-2017 10:01:30	Instrument ID:	HP5973F	Operator ID:	AM/LH
Lims ID:	LCS 480-368516/1-A			Worklist Smp#:	5
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121321-1

SDG No.:

Client Sample ID: TP-04 MS | Lab Sample ID: 480-121321-4 MS

Matrix: Solid | Lab File ID: F6462.D

Analysis Method: 8260C | Date Collected: 07/19/2017 13:00

Sample wt/vol: 5(g) | Date Analyzed: 07/25/2017 19:23

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) ID: 0.25(mm)

% Moisture: 17.9 | Level: (low/med) Low

Analysis Batch No.: 368496 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	39.7		6.1	0.44
79-34-5	1,1,2,2-Tetrachloroethane	45.9		6.1	0.99
79-00-5	1,1,2-Trichloroethane	47.1		6.1	0.79
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	24.9		6.1	1.4
75-34-3	1,1-Dichloroethane	47.7		6.1	0.74
75-35-4	1,1-Dichloroethene	34.6		6.1	0.75
120-82-1	1,2,4-Trichlorobenzene	34.4		6.1	0.37
96-12-8	1,2-Dibromo-3-Chloropropane	39.0		6.1	3.0
106-93-4	1,2-Dibromoethane	45.4		6.1	0.78
95-50-1	1,2-Dichlorobenzene	47.7		6.1	0.48
107-06-2	1,2-Dichloroethane	48.6		6.1	0.31
78-87-5	1,2-Dichloropropane	49.3		6.1	3.0
541-73-1	1,3-Dichlorobenzene	47.7		6.1	0.31
106-46-7	1,4-Dichlorobenzene	47.5		6.1	0.85
591-78-6	2-Hexanone	188		30	3.0
78-93-3	2-Butanone (MEK)	181		30	2.2
108-10-1	4-Methyl-2-pentanone (MIBK)	199		30	2.0
67-64-1	Acetone	181		30	5.1
71-43-2	Benzene	45.0		6.1	0.30
75-27-4	Bromodichloromethane	54.6		6.1	0.82
75-25-2	Bromoform	39.9		6.1	3.0
74-83-9	Bromomethane	87.6		6.1	0.55
75-15-0	Carbon disulfide	30.9		6.1	3.0
56-23-5	Carbon tetrachloride	37.3		6.1	0.59
108-90-7	Chlorobenzene	47.3		6.1	0.80
124-48-1	Dibromochloromethane	47.2		6.1	0.78
75-00-3	Chloroethane	75.0		6.1	1.4
67-66-3	Chloroform	50.6		6.1	0.38
74-87-3	Chloromethane	47.6		6.1	0.37
156-59-2	cis-1,2-Dichloroethene	49.2		6.1	0.78
10061-01-5	cis-1,3-Dichloropropene	48.0		6.1	0.88
110-82-7	Cyclohexane	24.7		6.1	0.85
75-71-8	Dichlorodifluoromethane	25.3		6.1	0.50
100-41-4	Ethylbenzene	45.3		6.1	0.42
98-82-8	Isopropylbenzene	44.6		6.1	0.92

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121321-1

SDG No.:

Client Sample ID: TP-04 MS | Lab Sample ID: 480-121321-4 MS

Matrix: Solid | Lab File ID: F6462.D

Analysis Method: 8260C | Date Collected: 07/19/2017 13:00

Sample wt/vol: 5(g) | Date Analyzed: 07/25/2017 19:23

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) ID: 0.25(mm)

% Moisture: 17.9 | Level: (low/med) Low

Analysis Batch No.: 368496 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	173		30	3.7
1634-04-4	Methyl tert-butyl ether	47.8		6.1	0.60
108-87-2	Methylcyclohexane	22.4		6.1	0.93
75-09-2	Methylene Chloride	53.0		6.1	2.8
100-42-5	Styrene	47.2		6.1	0.30
127-18-4	Tetrachloroethene	35.7		6.1	0.82
108-88-3	Toluene	44.6		6.1	0.46
156-60-5	trans-1,2-Dichloroethene	43.7		6.1	0.63
10061-02-6	trans-1,3-Dichloropropene	48.3		6.1	2.7
79-01-6	Trichloroethene	43.2		6.1	1.3
75-69-4	Trichlorofluoromethane	31.4		6.1	0.58
75-01-4	Vinyl chloride	37.1		6.1	0.74
1330-20-7	Xylenes, Total	90.1		12	1.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	88		64-126
2037-26-5	Toluene-d8 (Surr)	99		71-125
460-00-4	4-Bromofluorobenzene (Surr)	93		72-126

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20170725-64296.b\F6462.D
Lims ID: 480-121321-D-4-D MS
Client ID: TP-04
Sample Type: MS
Inject. Date: 25-Jul-2017 19:23:30 ALS Bottle#: 19 Worklist Smp#: 26
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-121321-D-4-D MS
Misc. Info.: 480-0064296-026
Operator ID: AM/LH Instrument ID: HP5973F

Method: \\ChromNA\Buffalo\ChromData\HP5973F\20170725-64296.b\F-8260 SOIL.m
Limit Group: MV - 8260C ICAL
Last Update: 25-Jul-2017 17:59:27 Calib Date: 20-Jul-2017 17:41:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973F\20170720-64196.b\F6340.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK004

First Level Reviewer: o'briens Date: 25-Jul-2017 20:39:15

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
* 153 Fluorobenzene (IS)	70	5.215	5.209	0.006	98	226157	50.0	50.0	
* 2 Chlorobenzene-d5	82	8.014	8.014	0.000	89	458051	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.380	10.380	0.000	96	421824	50.0	50.0	
$ 4 1,2-Dichloroethane-d4 (Sur	67	4.978	4.972	0.006	0	169005	50.0	44.0	
$ 5 Toluene-d8 (Surr)	98	6.578	6.578	0.000	93	1072407	50.0	49.6	
$ 6 4-Bromofluorobenzene (Surr	174	9.243	9.243	-0.001	88	340454	50.0	46.4	
10 Dichlorodifluoromethane	85	1.833	1.821	0.012	99	145848	50.0	20.8	
12 Chloromethane	50	1.960	1.948	0.012	98	230639	50.0	39.1	
13 Vinyl chloride	62	2.070	2.058	0.012	98	170536	50.0	30.4	
14 Bromomethane	94	2.350	2.338	0.012	91	141870	50.0	71.9	
15 Chloroethane	64	2.423	2.411	0.012	100	107000	50.0	61.6	
17 Trichlorofluoromethane	101	2.593	2.593	0.000	94	187113	50.0	25.8	
21 1,1,2-Trichloro-1,2,2-trif	101	2.976	2.964	0.012	92	123931	50.0	20.5	
22 1,1-Dichloroethene	96	3.001	2.989	0.012	96	155838	50.0	28.4	
23 Acetone	43	3.049	3.043	0.006	99	306082	250.0	149.0	
26 Carbon disulfide	76	3.202	3.195	0.007	100	503583	50.0	25.4	
27 Methyl acetate	43	3.262	3.256	0.006	96	569474	250.0	141.9	
30 Methylene Chloride	84	3.372	3.366	0.006	92	273200	50.0	43.5	
32 Methyl tert-butyl ether	73	3.524	3.518	0.006	95	717976	50.0	39.2	
34 trans-1,2-Dichloroethene	96	3.560	3.548	0.012	97	225352	50.0	35.9	
39 1,1-Dichloroethane	63	3.883	3.877	0.006	97	430878	50.0	39.2	
43 2-Butanone (MEK)	43	4.315	4.309	0.006	98	390169	250.0	149.0	
45 cis-1,2-Dichloroethene	96	4.327	4.321	0.006	83	280763	50.0	40.4	
50 Chloroform	83	4.564	4.558	0.006	94	481119	50.0	41.5	
51 1,1,1-Trichloroethane	97	4.704	4.698	0.006	98	326815	50.0	32.6	
52 Cyclohexane	56	4.735	4.728	0.007	90	197835	50.0	20.3	
55 Carbon tetrachloride	117	4.832	4.826	0.006	97	234923	50.0	30.6	
57 Benzene	78	5.002	5.002	0.000	97	866984	50.0	37.0	
58 1,2-Dichloroethane	62	5.039	5.033	0.006	98	389168	50.0	39.9	
62 Trichloroethene	95	5.519	5.513	0.006	95	231248	50.0	35.4	
64 Methylcyclohexane	83	5.647	5.653	-0.006	89	203546	50.0	18.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
65 1,2-Dichloropropane	63	5.732	5.732	0.000	89	235560	50.0	40.5	
68 Dichlorobromomethane	83	5.976	5.976	0.000	99	330516	50.0	44.8	
72 cis-1,3-Dichloropropene	75	6.353	6.353	0.000	94	373265	50.0	39.4	
73 4-Methyl-2-pentanone (MIBK	43	6.456	6.456	0.000	96	854076	250.0	163.0	
74 Toluene	92	6.645	6.645	0.000	98	555057	50.0	36.6	
77 trans-1,3-Dichloropropene	75	6.870	6.864	0.006	97	336028	50.0	39.7	
79 1,1,2-Trichloroethane	83	7.065	7.065	0.000	94	166190	50.0	38.7	
81 Tetrachloroethene	166	7.162	7.162	0.000	95	202384	50.0	29.3	
80 2-Hexanone	43	7.241	7.241	0.000	95	584310	250.0	154.4	
83 Chlorodibromomethane	129	7.466	7.466	0.000	90	217686	50.0	38.8	
84 Ethylene Dibromide	107	7.594	7.588	0.006	97	196842	50.0	37.3	
87 Chlorobenzene	112	8.044	8.044	0.000	93	646819	50.0	38.9	
88 Ethylbenzene	91	8.111	8.111	0.000	99	1029926	50.0	37.2	
90 m-Xylene & p-Xylene	106	8.227	8.227	0.000	99	402587		36.0	
91 o-Xylene	106	8.652	8.652	0.000	98	414876		37.9	
92 Styrene	104	8.677	8.677	0.000	93	720955	50.0	38.7	
95 Bromoform	173	8.944	8.950	-0.006	94	114035	50.0	32.8	
94 Isopropylbenzene	105	9.024	9.023	0.001	97	946880	50.0	36.6	
97 1,1,2,2-Tetrachloroethane	83	9.413	9.413	0.000	72	225796	50.0	37.7	
111 1,3-Dichlorobenzene	146	10.319	10.319	0.000	97	530710	50.0	39.1	
113 1,4-Dichlorobenzene	146	10.404	10.404	0.000	94	532998	50.0	39.0	
116 1,2-Dichlorobenzene	146	10.751	10.751	0.000	97	504681	50.0	39.1	
117 1,2-Dibromo-3-Chloropropan	75	11.439	11.439	0.000	80	36642	50.0	32.0	
119 1,2,4-Trichlorobenzene	180	12.071	12.071	0.000	94	249170	50.0	28.2	
S 124 Xylenes, Total	1				0			74.0	

Reagents:

F 8260 SURR_00240	Amount Added:	1.00	Units: uL	Run Reagent
F 8260 IS_00557	Amount Added:	1.00	Units: uL	Run Reagent

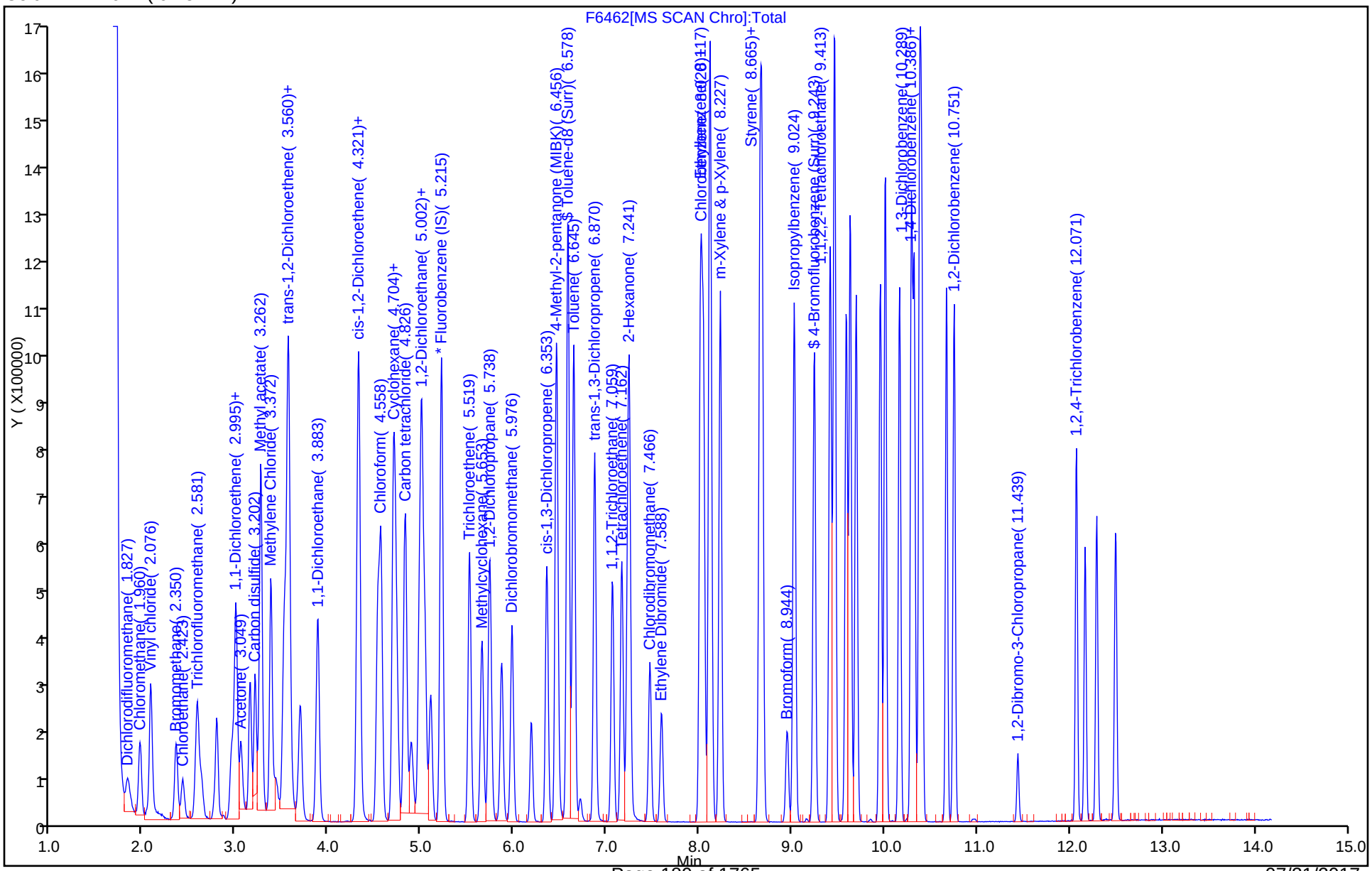
Report Date: 25-Jul-2017 20:39:15 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20170725-64296.b\F6462.D

Injection Date:	25-Jul-2017 19:23:30	Instrument ID:	HP5973F	Operator ID:	AM/LH
Lims ID:	480-121321-D-4-D MS			Worklist Smp#:	26
Client ID:	TP-04				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	19
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121321-1

SDG No.:

Client Sample ID: TP-04 MSD | Lab Sample ID: 480-121321-4 MSD

Matrix: Solid | Lab File ID: F6463.D

Analysis Method: 8260C | Date Collected: 07/19/2017 13:00

Sample wt/vol: 5.01(g) | Date Analyzed: 07/25/2017 19:48

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) ID: 0.25(mm)

% Moisture: 17.9 | Level: (low/med) Low

Analysis Batch No.: 368496 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	36.6		6.1	0.44
79-34-5	1,1,2,2-Tetrachloroethane	42.0		6.1	0.99
79-00-5	1,1,2-Trichloroethane	44.1		6.1	0.79
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	22.5		6.1	1.4
75-34-3	1,1-Dichloroethane	44.6		6.1	0.74
75-35-4	1,1-Dichloroethene	32.0		6.1	0.74
120-82-1	1,2,4-Trichlorobenzene	35.7		6.1	0.37
96-12-8	1,2-Dibromo-3-Chloropropane	37.8		6.1	3.0
106-93-4	1,2-Dibromoethane	42.6		6.1	0.78
95-50-1	1,2-Dichlorobenzene	44.8		6.1	0.48
107-06-2	1,2-Dichloroethane	45.7		6.1	0.31
78-87-5	1,2-Dichloropropane	46.2		6.1	3.0
541-73-1	1,3-Dichlorobenzene	45.1		6.1	0.31
106-46-7	1,4-Dichlorobenzene	44.5		6.1	0.85
591-78-6	2-Hexanone	181		30	3.0
78-93-3	2-Butanone (MEK)	174		30	2.2
108-10-1	4-Methyl-2-pentanone (MIBK)	185		30	2.0
67-64-1	Acetone	170		30	5.1
71-43-2	Benzene	42.6		6.1	0.30
75-27-4	Bromodichloromethane	51.5		6.1	0.81
75-25-2	Bromoform	38.9		6.1	3.0
74-83-9	Bromomethane	78.9		6.1	0.55
75-15-0	Carbon disulfide	29.0		6.1	3.0
56-23-5	Carbon tetrachloride	34.4		6.1	0.59
108-90-7	Chlorobenzene	43.9		6.1	0.80
124-48-1	Dibromochloromethane	44.5		6.1	0.78
75-00-3	Chloroethane	65.7		6.1	1.4
67-66-3	Chloroform	47.0		6.1	0.38
74-87-3	Chloromethane	43.3		6.1	0.37
156-59-2	cis-1,2-Dichloroethene	45.4		6.1	0.78
10061-01-5	cis-1,3-Dichloropropene	44.9		6.1	0.88
110-82-7	Cyclohexane	22.4		6.1	0.85
75-71-8	Dichlorodifluoromethane	22.8		6.1	0.50
100-41-4	Ethylbenzene	42.3		6.1	0.42
98-82-8	Isopropylbenzene	40.7		6.1	0.92

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121321-1

SDG No.:

Client Sample ID: TP-04 MSD | Lab Sample ID: 480-121321-4 MSD

Matrix: Solid | Lab File ID: F6463.D

Analysis Method: 8260C | Date Collected: 07/19/2017 13:00

Sample wt/vol: 5.01(g) | Date Analyzed: 07/25/2017 19:48

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) ID: 0.25(mm)

% Moisture: 17.9 | Level: (low/med) Low

Analysis Batch No.: 368496 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	164		30	3.7
1634-04-4	Methyl tert-butyl ether	44.9		6.1	0.60
108-87-2	Methylcyclohexane	20.3		6.1	0.92
75-09-2	Methylene Chloride	49.5		6.1	2.8
100-42-5	Styrene	43.9		6.1	0.30
127-18-4	Tetrachloroethene	32.8		6.1	0.82
108-88-3	Toluene	41.5		6.1	0.46
156-60-5	trans-1,2-Dichloroethene	40.7		6.1	0.63
10061-02-6	trans-1,3-Dichloropropene	45.4		6.1	2.7
79-01-6	Trichloroethene	40.1		6.1	1.3
75-69-4	Trichlorofluoromethane	28.4		6.1	0.58
75-01-4	Vinyl chloride	33.7		6.1	0.74
1330-20-7	Xylenes, Total	84.4		12	1.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	87		64-126
2037-26-5	Toluene-d8 (Surr)	98		71-125
460-00-4	4-Bromofluorobenzene (Surr)	92		72-126

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20170725-64296.b\F6463.D
Lims ID: 480-121321-D-4-E MSD
Client ID: TP-04
Sample Type: MSD
Inject. Date: 25-Jul-2017 19:48:30 ALS Bottle#: 20 Worklist Smp#: 27
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-121321-D-4-E MSD
Misc. Info.: 480-0064296-027
Operator ID: AM/LH Instrument ID: HP5973F

Method: \\ChromNA\Buffalo\ChromData\HP5973F\20170725-64296.b\F-8260 SOIL.m
Limit Group: MV - 8260C ICAL
Last Update: 25-Jul-2017 17:59:27 Calib Date: 20-Jul-2017 17:41:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973F\20170720-64196.b\F6340.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK004

First Level Reviewer: o'briens Date: 25-Jul-2017 20:39:33

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
* 153 Fluorobenzene (IS)	70	5.215	5.209	0.006	98	231346	50.0	50.0	
* 2 Chlorobenzene-d5	82	8.014	8.014	0.000	89	474693	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.380	10.380	0.000	95	444692	50.0	50.0	
$ 4 1,2-Dichloroethane-d4 (Sur	67	4.978	4.972	0.006	0	171719	50.0	43.7	
$ 5 Toluene-d8 (Surr)	98	6.584	6.578	0.006	94	1095402	50.0	48.9	
$ 6 4-Bromofluorobenzene (Surr	174	9.243	9.243	0.000	87	348744	50.0	45.9	
10 Dichlorodifluoromethane	85	1.839	1.821	0.018	99	134518	50.0	18.7	
12 Chloromethane	50	1.961	1.948	0.012	99	214688	50.0	35.6	
13 Vinyl chloride	62	2.070	2.058	0.012	98	158696	50.0	27.7	
14 Bromomethane	94	2.350	2.338	0.012	92	130877	50.0	64.9	
15 Chloroethane	64	2.423	2.411	0.012	100	96442	50.0	54.0	
17 Trichlorofluoromethane	101	2.593	2.593	0.000	97	173365	50.0	23.4	
21 1,1,2-Trichloro-1,2,2-trif	101	2.976	2.964	0.012	93	114690	50.0	18.5	
22 1,1-Dichloroethene	96	3.001	2.989	0.012	97	147617	50.0	26.3	
23 Acetone	43	3.049	3.043	0.006	99	293330	250.0	139.5	
26 Carbon disulfide	76	3.208	3.195	0.013	100	483627	50.0	23.9	
27 Methyl acetate	43	3.262	3.256	0.006	96	553837	250.0	134.9	
30 Methylene Chloride	84	3.378	3.366	0.012	91	261920	50.0	40.7	
32 Methyl tert-butyl ether	73	3.524	3.518	0.006	95	691878	50.0	36.9	
34 trans-1,2-Dichloroethene	96	3.554	3.548	0.006	97	214985	50.0	33.4	
39 1,1-Dichloroethane	63	3.883	3.877	0.006	97	412990	50.0	36.7	
43 2-Butanone (MEK)	43	4.315	4.309	0.006	98	383007	250.0	143.0	
45 cis-1,2-Dichloroethene	96	4.327	4.321	0.006	83	265600	50.0	37.4	
50 Chloroform	83	4.564	4.558	0.006	94	458103	50.0	38.6	
51 1,1,1-Trichloroethane	97	4.704	4.698	0.006	98	309196	50.0	30.1	
52 Cyclohexane	56	4.729	4.728	0.001	90	183742	50.0	18.4	
55 Carbon tetrachloride	117	4.832	4.826	0.006	97	221830	50.0	28.3	
57 Benzene	78	5.002	5.002	0.000	97	840775	50.0	35.0	
58 1,2-Dichloroethane	62	5.039	5.033	0.006	98	374932	50.0	37.6	
62 Trichloroethene	95	5.519	5.513	0.006	96	220194	50.0	33.0	
64 Methylcyclohexane	83	5.653	5.653	0.000	89	189508	50.0	16.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
65 1,2-Dichloropropane	63	5.738	5.732	0.006	89	226248	50.0	38.0	
68 Dichlorobromomethane	83	5.976	5.976	0.000	99	319755	50.0	42.4	
72 cis-1,3-Dichloropropene	75	6.353	6.353	0.000	95	358330	50.0	37.0	
73 4-Methyl-2-pentanone (MIBK	43	6.456	6.456	0.000	96	827419	250.0	152.4	
74 Toluene	92	6.645	6.645	0.000	98	535639	50.0	34.1	
77 trans-1,3-Dichloropropene	75	6.870	6.864	0.006	97	327658	50.0	37.3	
79 1,1,2-Trichloroethane	83	7.065	7.065	0.000	93	161703	50.0	36.3	
81 Tetrachloroethene	166	7.162	7.162	0.000	96	193452	50.0	27.0	
80 2-Hexanone	43	7.241	7.241	0.000	95	585044	250.0	149.2	
83 Chlorodibromomethane	129	7.466	7.466	0.000	90	212057	50.0	36.6	
84 Ethylene Dibromide	107	7.588	7.588	0.000	98	191890	50.0	35.0	
87 Chlorobenzene	112	8.044	8.044	0.000	94	623389	50.0	36.1	
88 Ethylbenzene	91	8.111	8.111	0.000	98	998525	50.0	34.8	
90 m-Xylene & p-Xylene	106	8.227	8.227	0.000	99	390239		33.7	
91 o-Xylene	106	8.652	8.652	0.000	96	404551		35.7	
92 Styrene	104	8.677	8.677	0.000	94	697223	50.0	36.1	
95 Bromoform	173	8.951	8.950	0.001	95	115063	50.0	32.0	
94 Isopropylbenzene	105	9.024	9.023	0.001	96	911989	50.0	33.5	
97 1,1,2,2-Tetrachloroethane	83	9.413	9.413	0.000	72	218315	50.0	34.5	
111 1,3-Dichlorobenzene	146	10.319	10.319	0.000	97	530456	50.0	37.1	
113 1,4-Dichlorobenzene	146	10.398	10.404	-0.006	93	527633	50.0	36.6	
116 1,2-Dichlorobenzene	146	10.751	10.751	0.000	96	501226	50.0	36.9	
117 1,2-Dibromo-3-Chloropropan	75	11.439	11.439	0.000	81	37503	50.0	31.1	
119 1,2,4-Trichlorobenzene	180	12.071	12.071	0.000	94	273604	50.0	29.4	
S 124 Xylenes, Total	1				0			69.4	

Reagents:

F 8260 SURR_00240	Amount Added:	1.00	Units: uL	Run Reagent
F 8260 IS_00557	Amount Added:	1.00	Units: uL	Run Reagent

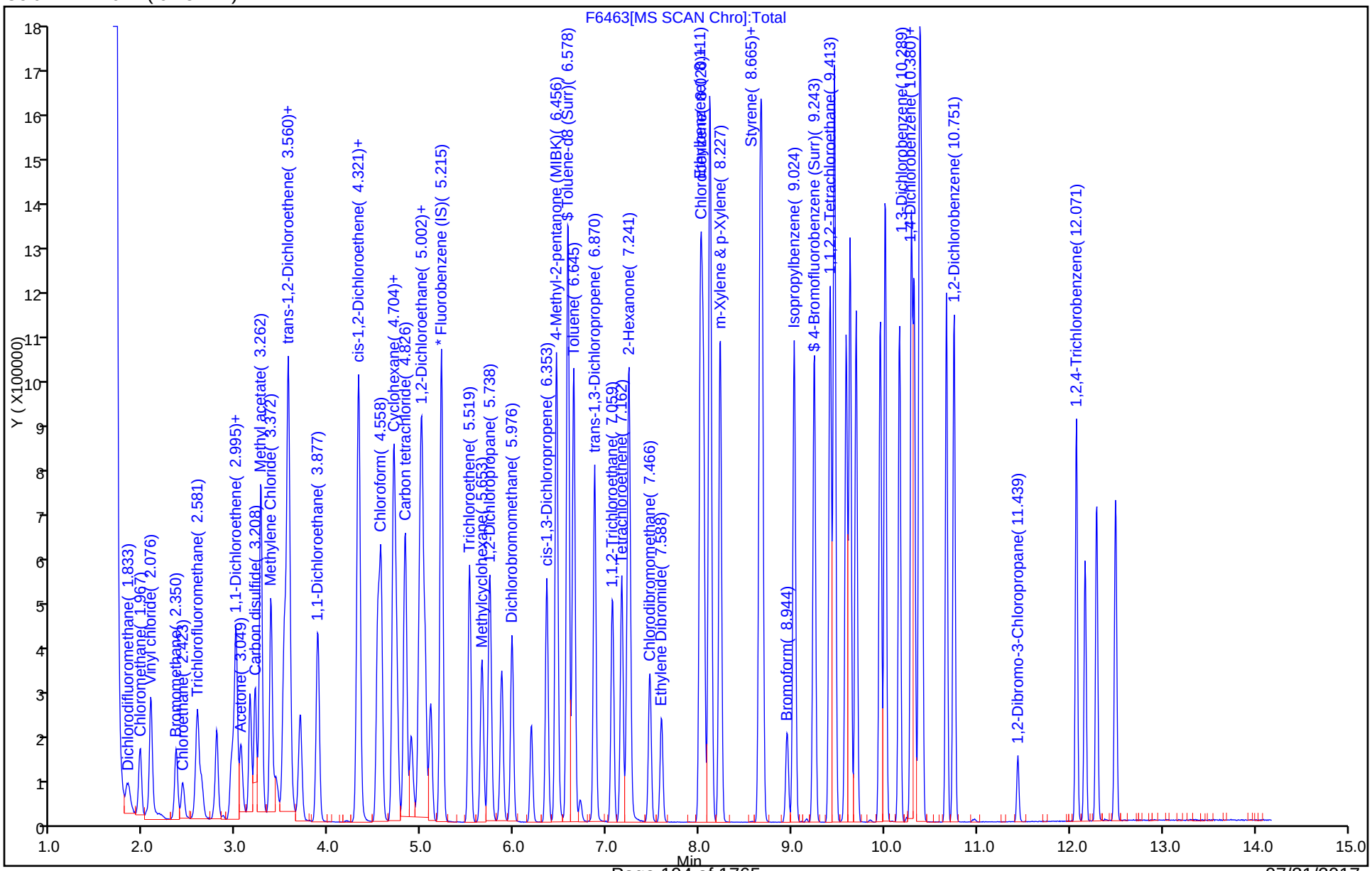
Report Date: 25-Jul-2017 20:39:34 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20170725-64296.b\F6463.D

Injection Date:	25-Jul-2017 19:48:30	Instrument ID:	HP5973F	Operator ID:	AM/LH
Lims ID:	480-121321-D-4-E MSD			Worklist Smp#:	27
Client ID:	TP-04				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	20
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1

SDG No.:

Instrument ID: HP5973F Start Date: 07/20/2017 10:51

Analysis Batch Number: 367895 End Date: 07/20/2017 19:48

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 480-367895/2		07/20/2017 10:51	1	F6324.D	ZB-624 (30) 0.25(mm)
IC 480-367895/4		07/20/2017 11:43	1	F6326.D	ZB-624 (30) 0.25(mm)
IC 480-367895/5		07/20/2017 12:09	1	F6327.D	ZB-624 (30) 0.25(mm)
IC 480-367895/6		07/20/2017 12:34	1	F6328.D	ZB-624 (30) 0.25(mm)
IC 480-367895/7		07/20/2017 13:00	1	F6329.D	ZB-624 (30) 0.25(mm)
ICIS 480-367895/8		07/20/2017 13:25	1	F6330.D	ZB-624 (30) 0.25(mm)
IC 480-367895/9		07/20/2017 13:50	1	F6331.D	ZB-624 (30) 0.25(mm)
IC 480-367895/10		07/20/2017 14:16	1	F6332.D	ZB-624 (30) 0.25(mm)
IC 480-367895/12		07/20/2017 15:08	1		ZB-624 (30) 0.25(mm)
IC 480-367895/13		07/20/2017 15:33	1		ZB-624 (30) 0.25(mm)
IC 480-367895/14		07/20/2017 15:58	1		ZB-624 (30) 0.25(mm)
IC 480-367895/15		07/20/2017 16:24	1		ZB-624 (30) 0.25(mm)
IC 480-367895/16		07/20/2017 16:50	1		ZB-624 (30) 0.25(mm)
IC 480-367895/17		07/20/2017 17:16	1		ZB-624 (30) 0.25(mm)
IC 480-367895/18		07/20/2017 17:41	1		ZB-624 (30) 0.25(mm)
MDLV 480-367895/20		07/20/2017 18:32	1		ZB-624 (30) 0.25(mm)
MDLV 480-367895/21		07/20/2017 18:58	1		ZB-624 (30) 0.25(mm)
ICV 480-367895/22		07/20/2017 19:23	1		ZB-624 (30) 0.25(mm)
ICV 480-367895/23		07/20/2017 19:48	1		ZB-624 (30) 0.25(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1

SDG No.:

Instrument ID: HP5973F Start Date: 07/25/2017 08:25

Analysis Batch Number: 368496 End Date: 07/25/2017 19:48

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 480-368496/2		07/25/2017 08:25	1	F6438.D	ZB-624 (30) 0.25(mm)
CCVIS 480-368496/3		07/25/2017 08:50	1	F6439.D	ZB-624 (30) 0.25(mm)
CCV 480-368496/4		07/25/2017 09:24	1		ZB-624 (30) 0.25(mm)
LCS 480-368516/1-A		07/25/2017 10:01	1	F6441.D	ZB-624 (30) 0.25(mm)
MB 480-368516/2-A		07/25/2017 10:52	1	F6443.D	ZB-624 (30) 0.25(mm)
ZZZZZ		07/25/2017 11:45	1		ZB-624 (30) 0.25(mm)
ZZZZZ		07/25/2017 12:11	1		ZB-624 (30) 0.25(mm)
ZZZZZ		07/25/2017 12:36	1		ZB-624 (30) 0.25(mm)
ZZZZZ		07/25/2017 13:02	1		ZB-624 (30) 0.25(mm)
480-121321-1		07/25/2017 13:27	1	F6448.D	ZB-624 (30) 0.25(mm)
480-121321-2		07/25/2017 13:52	1	F6449.D	ZB-624 (30) 0.25(mm)
480-121321-3		07/25/2017 14:18	1	F6450.D	ZB-624 (30) 0.25(mm)
480-121321-4		07/25/2017 14:43	1	F6451.D	ZB-624 (30) 0.25(mm)
480-121321-5		07/25/2017 15:09	1	F6452.D	ZB-624 (30) 0.25(mm)
480-121321-6		07/25/2017 15:34	1	F6453.D	ZB-624 (30) 0.25(mm)
ZZZZZ		07/25/2017 15:59	1		ZB-624 (30) 0.25(mm)
ZZZZZ		07/25/2017 16:25	1		ZB-624 (30) 0.25(mm)
ZZZZZ		07/25/2017 16:50	1		ZB-624 (30) 0.25(mm)
ZZZZZ		07/25/2017 17:16	1		ZB-624 (30) 0.25(mm)
ZZZZZ		07/25/2017 17:41	1		ZB-624 (30) 0.25(mm)
ZZZZZ		07/25/2017 18:06	1		ZB-624 (30) 0.25(mm)
ZZZZZ		07/25/2017 18:32	1		ZB-624 (30) 0.25(mm)
ZZZZZ		07/25/2017 18:57	1		ZB-624 (30) 0.25(mm)
480-121321-4 MS		07/25/2017 19:23	1	F6462.D	ZB-624 (30) 0.25(mm)
480-121321-4 MSD		07/25/2017 19:48	1	F6463.D	ZB-624 (30) 0.25(mm)

GC/MS VOA BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1

SDG No.:

Batch Number: 368516 Batch Start Date: 07/25/17 08:33 Batch Analyst: Moffat, Alyssa M

Batch Method: 5035A_L Batch End Date: 07/25/17 11:30

Lab Sample ID	Client Sample ID	Method Chain	Basis	TareWeight	Vial&SampleWt	InitialAmount	FinalAmount	8260 CORP mix 00103	GAS CORP mix 00231
LCS 480-368516/1		5035A_L, 8260C		25.36 g	30.36 g	5 g	5 mL	2.5 uL	2.5 uL
MB 480-368516/2		5035A_L, 8260C		25.27 g	30.27 g	5 g	5 mL		
480-121321-D-1	TP-01	5035A_L, 8260C	T	25.38 g	30.43 g	5.05 g	5 mL		
480-121321-D-2	TP-03	5035A_L, 8260C	T	25.34 g	30.36 g	5.02 g	5 mL		
480-121321-D-3	TP-18	5035A_L, 8260C	T	25.66 g	30.69 g	5.03 g	5 mL		
480-121321-D-4	TP-04	5035A_L, 8260C	T	25.34 g	30.34 g	5 g	5 mL		
480-121321-D-5	TP-05	5035A_L, 8260C	T	25.43 g	30.45 g	5.02 g	5 mL		
480-121321-D-6	DUP	5035A_L, 8260C	T	25.22 g	30.29 g	5.07 g	5 mL		
480-121321-D-4 MS	TP-04	5035A_L, 8260C	T	25.76 g	30.76 g	5 g	5 mL	2.5 uL	2.5 uL
480-121321-D-4 MSD	TP-04	5035A_L, 8260C	T	25.78 g	30.79 g	5.01 g	5 mL	2.5 uL	2.5 uL

Lab Sample ID	Client Sample ID	Method Chain	Basis	AnalysisComment					
LCS 480-368516/1		5035A_L, 8260C							
MB 480-368516/2		5035A_L, 8260C		TC					
480-121321-D-1	TP-01	5035A_L, 8260C	T	bulk					
480-121321-D-2	TP-03	5035A_L, 8260C	T	bulk					
480-121321-D-3	TP-18	5035A_L, 8260C	T	bulk					
480-121321-D-4	TP-04	5035A_L, 8260C	T	bulk					
480-121321-D-5	TP-05	5035A_L, 8260C	T	bulk					
480-121321-D-6	DUP	5035A_L, 8260C	T	bulk					
480-121321-D-4 MS	TP-04	5035A_L, 8260C	T	bulk client QC					

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.: 480-121321-1

SDG No.:

Batch Number: 368516 Batch Start Date: 07/25/17 08:33 Batch Analyst: Moffat, Alyssa M

Batch Method: 5035A_L Batch End Date: 07/25/17 11:30

Lab Sample ID	Client Sample ID	Method Chain	Basis	AnalysisComment					
480-121321-D-4 MSD	TP-04	5035A_L, 8260C	T	bulk client QC					

Batch Notes	
Balance ID	b202613314
Batch Comment	sandlot16d195205

Basis	Basis Description
T	Total/NA

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

Method 8270D

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

FORM II
GC/MS SEMI VOA SURROGATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1

SDG No.:

Matrix: Solid Level: Low

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

Client Sample ID	Lab Sample ID	2FP #	PHL #	NBZ #	FBP #	TBP #	TPHd14 #
TP-01	480-121321-1	70	64	151 X	85	153 X	87
TP-03	480-121321-2	69	66	78	78	89	95
TP-18	480-121321-3	60	58	65	45 X	94	83
TP-04	480-121321-4	71	66	83	81	89	98
TP-05	480-121321-5	65	62	75	76	84	87
DUP	480-121321-6	67	63	78	78	88	94
	MB 480-367823/1-A	75	71	84	84	88	100
	LCS 480-367823/2-A	68	64	81	84	107	87
TP-04 MS	480-121321-4 MS	68	64	83	83	105	90
TP-04 MSD	480-121321-4 MSD	70	66	86	84	106	98

	QC LIMITS
2FP = 2-Fluorophenol	52-120
PHL = Phenol-d5	54-120
NBZ = Nitrobenzene-d5	53-120
FBP = 2-Fluorobiphenyl	60-120
TBP = 2,4,6-Tribromophenol	54-120
TPHd14 = p-Terphenyl-d14	65-121

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.: 480-121321-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: U326587.D

Lab ID: LCS 480-367823/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Biphenyl	1630	1370	84	59-120	
bis (2-chloroisopropyl) ether	1630	784	48	44-120	
2,4,5-Trichlorophenol	1630	1420	87	59-126	
2,4,6-Trichlorophenol	1630	1460	90	59-123	
2,4-Dichlorophenol	1630	1310	81	61-120	
2,4-Dimethylphenol	1630	1250	77	59-120	
2,4-Dinitrophenol	3260	3720	114	41-146	
2,4-Dinitrotoluene	1630	1630	100	63-120	
2,6-Dinitrotoluene	1630	1640	101	66-120	
2-Chloronaphthalene	1630	1360	83	57-120	
2-Chlorophenol	1630	1130	69	53-120	
2-Methylnaphthalene	1630	1250	77	59-120	
2-Methylphenol	1630	1110	68	54-120	
2-Nitroaniline	1630	1430	87	61-120	
2-Nitrophenol	1630	1620	99	56-120	
3,3'-Dichlorobenzidine	3260	2800	86	54-120	
3-Nitroaniline	1630	1390	85	48-120	
4,6-Dinitro-2-methylphenol	3260	3720	114	49-122	
4-Bromophenyl phenyl ether	1630	1670	102	58-120	
4-Chloro-3-methylphenol	1630	1190	73	61-120	
4-Chloroaniline	1630	1090	67	38-120	
4-Chlorophenyl phenyl ether	1630	1400	86	63-124	
4-Methylphenol	1630	1100	67	55-120	
4-Nitroaniline	1630	1250	77	56-120	
4-Nitrophenol	3260	2490	76	43-147	
Acenaphthene	1630	1340	82	62-120	
Acenaphthylene	1630	1350	83	58-121	
Acetophenone	1630	1040	64	54-120	
Anthracene	1630	1440	89	62-120	
Atrazine	3260	2690	82	60-127	
Benzaldehyde	3260	2010	62	10-150	
Benzo(a)anthracene	1630	1430	88	65-120	
Benzo(a)pyrene	1630	1450	89	64-120	
Benzo(b)fluoranthene	1630	1480	91	64-120	
Benzo(g,h,i)perylene	1630	1690	104	45-145	
Benzo(k)fluoranthene	1630	1380	85	65-120	
Bis(2-chloroethoxy)methane	1630	1160	71	55-120	
Bis(2-chloroethyl)ether	1630	1010	62	45-120	
Bis(2-ethylhexyl) phthalate	1630	1540	95	61-133	
Butyl benzyl phthalate	1630	1550	95	61-129	
Caprolactam	3260	2340	72	47-120	
Carbazole	1630	1380	85	65-120	

Column to be used to flag recovery and RPD values

FORM III 8270D

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: U326587.D

Lab ID: LCS 480-367823/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Chrysene	1630	1410	87	64-120	
Di-n-butyl phthalate	1630	1380	85	58-130	
Di-n-octyl phthalate	1630	1540	95	57-133	
Dibenz(a,h)anthracene	1630	1650	101	54-132	
Dibenzofuran	1630	1330	82	63-120	
Diethyl phthalate	1630	1330	82	66-120	
Dimethyl phthalate	1630	1370	84	65-124	
Fluoranthene	1630	1350	83	62-120	
Fluorene	1630	1320	81	63-120	
Hexachlorobenzene	1630	1630	100	60-120	
Hexachlorobutadiene	1630	1350	83	45-120	
Hexachlorocyclopentadiene	1630	1450	89	47-120	
Hexachloroethane	1630	1040	64	41-120	
Indeno(1,2,3-cd)pyrene	1630	1640	101	56-134	
Isophorone	1630	1130	69	56-120	
N-Nitrosodi-n-propylamine	1630	977	60	52-120	
N-Nitrosodiphenylamine	1630	1570	96	51-128	
Naphthalene	1630	1220	75	55-120	
Nitrobenzene	1630	1260	77	54-120	
Pentachlorophenol	3260	3000	92	51-120	
Phenanthrene	1630	1450	89	60-120	
Phenol	1630	1040	64	53-120	
Pyrene	1630	1450	89	61-133	

Column to be used to flag recovery and RPD values

FORM III 8270D

FORM III
GC/MS SEMI VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: U326574.D

Lab ID: 480-121321-4 MS Client ID: TP-04 MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Biphenyl	1990	ND	1610	81	58-120	
bis (2-chloroisopropyl) ether	1990	ND	966	49	31-120	
2,4,5-Trichlorophenol	1990	ND	1690	85	46-120	
2,4,6-Trichlorophenol	1990	ND	1700	86	41-123	
2,4-Dichlorophenol	1990	ND	1520	77	45-120	
2,4-Dimethylphenol	1990	ND	1440	72	52-120	
2,4-Dinitrophenol	3970	ND	4170	105	41-146	
2,4-Dinitrotoluene	1990	ND	1940	98	63-125	
2,6-Dinitrotoluene	1990	ND	1920	97	66-120	
2-Chloronaphthalene	1990	ND	1610	81	57-120	
2-Chlorophenol	1990	ND	1340	68	43-120	
2-Methylnaphthalene	1990	ND	1490	75	55-120	
2-Methylphenol	1990	ND	1290	65	48-120	
2-Nitroaniline	1990	ND	1680	85	61-120	
2-Nitrophenol	1990	ND	1950	98	37-120	
3,3'-Dichlorobenzidine	3970	ND	3210	81	37-126	
3-Nitroaniline	1990	ND	1610	81	48-120	
4,6-Dinitro-2-methylphenol	3970	ND	4340	109	23-149	
4-Bromophenyl phenyl ether	1990	ND	1930	97	58-120	
4-Chloro-3-methylphenol	1990	ND	1370	69	49-125	
4-Chloroaniline	1990	ND	1250	63	38-120	
4-Chlorophenyl phenyl ether	1990	ND	1630	82	63-124	
4-Methylphenol	1990	ND	1270	64	50-120	
4-Nitroaniline	1990	ND	1410	71	47-120	
4-Nitrophenol	3970	ND	2920	73	31-147	
Acenaphthene	1990	ND	1600	81	60-120	
Acenaphthylene	1990	ND	1580	80	58-121	
Acetophenone	1990	ND	1230	62	47-120	
Anthracene	1990	ND	1680	84	62-120	
Atrazine	3970	ND	3020	76	60-150	
Benzaldehyde	3970	ND	2450	62	10-150	
Benzo(a)anthracene	1990	ND	1660	84	65-120	
Benzo(a)pyrene	1990	ND	1700	86	64-120	
Benzo(b)fluoranthene	1990	ND	1790	90	64-120	
Benzo(g,h,i)perylene	1990	ND	1770	89	45-145	
Benzo(k)fluoranthene	1990	ND	1690	85	65-120	
Bis(2-chloroethoxy)methane	1990	ND	1390	70	52-120	
Bis(2-chloroethyl)ether	1990	ND	1240	62	45-120	
Bis(2-ethylhexyl) phthalate	1990	ND	1760	89	61-133	
Butyl benzyl phthalate	1990	ND	1800	90	61-120	
Caprolactam	3970	ND	2670	67	37-133	
Carbazole	1990	ND	1600	80	59-120	

Column to be used to flag recovery and RPD values

FORM III 8270D

FORM III
GC/MS SEMI VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: U326574.D

Lab ID: 480-121321-4 MS Client ID: TP-04 MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Chrysene	1990	ND	1660	84	64-120	
Di-n-butyl phthalate	1990	ND	1610	81	58-130	
Di-n-octyl phthalate	1990	ND	1730	87	57-133	
Dibenz(a,h)anthracene	1990	ND	1750	88	54-132	
Dibenzofuran	1990	ND	1570	79	62-120	
Diethyl phthalate	1990	ND	1520	77	66-120	
Dimethyl phthalate	1990	ND	1570	79	65-124	
Fluoranthene	1990	ND	1600	80	62-120	
Fluorene	1990	ND	1550	78	63-120	
Hexachlorobenzene	1990	ND	1890	95	60-120	
Hexachlorobutadiene	1990	ND	1590	80	45-120	
Hexachlorocyclopentadiene	1990	ND	2000	101	31-120	
Hexachloroethane	1990	ND	1230	62	21-120	
Indeno(1,2,3-cd)pyrene	1990	ND	1740	88	56-134	
Isophorone	1990	ND	1320	66	56-120	
N-Nitrosodi-n-propylamine	1990	ND	1150	58	46-120	
N-Nitrosodiphenylamine	1990	ND	1800	90	20-128	
Naphthalene	1990	ND	1450	73	46-120	
Nitrobenzene	1990	ND	1550	78	49-120	
Pentachlorophenol	3970	ND	3550	89	25-136	
Phenanthrene	1990	ND	1720	87	60-122	
Phenol	1990	ND	1230	62	50-120	
Pyrene	1990	ND	1760	89	61-133	

Column to be used to flag recovery and RPD values

FORM III 8270D

FORM III
GC/MS SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: U326575.D

Lab ID: 480-121321-4 MSD Client ID: TP-04 MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Biphenyl	1980	1580	80	2	20	58-120	
bis (2-chloroisopropyl) ether	1980	932	47	4	24	31-120	
2,4,5-Trichlorophenol	1980	1630	83	3	18	46-120	
2,4,6-Trichlorophenol	1980	1710	86	0	19	41-123	
2,4-Dichlorophenol	1980	1540	78	1	19	45-120	
2,4-Dimethylphenol	1980	1460	74	1	42	52-120	
2,4-Dinitrophenol	3960	4110	104	1	22	41-146	
2,4-Dinitrotoluene	1980	1950	98	1	20	63-125	
2,6-Dinitrotoluene	1980	1940	98	1	15	66-120	
2-Chloronaphthalene	1980	1580	80	2	21	57-120	
2-Chlorophenol	1980	1330	67	1	25	43-120	
2-Methylnaphthalene	1980	1440	73	3	21	55-120	
2-Methylphenol	1980	1270	64	1	27	48-120	
2-Nitroaniline	1980	1690	86	1	15	61-120	
2-Nitrophenol	1980	1970	100	1	18	37-120	
3,3'-Dichlorobenzidine	3960	3090	78	4	25	37-126	
3-Nitroaniline	1980	1600	81	1	19	48-120	
4,6-Dinitro-2-methylphenol	3960	4340	110	0	15	23-149	
4-Bromophenyl phenyl ether	1980	1920	97	1	15	58-120	
4-Chloro-3-methylphenol	1980	1380	70	1	27	49-125	
4-Chloroaniline	1980	1190	60	4	22	38-120	
4-Chlorophenyl phenyl ether	1980	1600	81	2	16	63-124	
4-Methylphenol	1980	1290	65	1	24	50-120	
4-Nitroaniline	1980	1350	68	4	24	47-120	
4-Nitrophenol	3960	2890	73	1	25	31-147	
Acenaphthene	1980	1530	77	5	35	60-120	
Acenaphthylene	1980	1560	79	2	18	58-121	
Acetophenone	1980	1220	62	1	20	47-120	
Anthracene	1980	1640	83	2	15	62-120	
Atrazine	3960	2870	73	5	20	60-150	
Benzaldehyde	3960	2360	60	4	20	10-150	
Benzo(a)anthracene	1980	1650	83	1	15	65-120	
Benzo(a)pyrene	1980	1670	84	2	15	64-120	
Benzo(b)fluoranthene	1980	1770	89	1	15	64-120	
Benzo(g,h,i)perylene	1980	1800	91	2	15	45-145	
Benzo(k)fluoranthene	1980	1680	85	0	22	65-120	
Bis(2-chloroethoxy)methane	1980	1370	69	1	17	52-120	
Bis(2-chloroethyl)ether	1980	1210	61	2	21	45-120	
Bis(2-ethylhexyl) phthalate	1980	1750	88	1	15	61-133	
Butyl benzyl phthalate	1980	1890	96	5	16	61-120	
Caprolactam	3960	2650	67	1	20	37-133	
Carbazole	1980	1510	76	6	20	59-120	

Column to be used to flag recovery and RPD values

FORM III 8270D

FORM III
GC/MS SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: U326575.D

Lab ID: 480-121321-4 MSD Client ID: TP-04 MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Chrysene	1980	1660	84	0	15	64-120	
Di-n-butyl phthalate	1980	1570	79	2	15	58-130	
Di-n-octyl phthalate	1980	1680	85	3	16	57-133	
Dibenz(a,h)anthracene	1980	1780	90	2	15	54-132	
Dibenzofuran	1980	1530	77	3	15	62-120	
Diethyl phthalate	1980	1500	76	2	15	66-120	
Dimethyl phthalate	1980	1560	79	1	15	65-124	
Fluoranthene	1980	1510	76	6	15	62-120	
Fluorene	1980	1510	76	2	15	63-120	
Hexachlorobenzene	1980	1920	97	1	15	60-120	
Hexachlorobutadiene	1980	1500	76	6	44	45-120	
Hexachlorocyclopentadiene	1980	2000	101	0	49	31-120	
Hexachloroethane	1980	1140	58	7	46	21-120	
Indeno(1,2,3-cd)pyrene	1980	1770	89	1	15	56-134	
Isophorone	1980	1310	66	1	17	56-120	
N-Nitrosodi-n-propylamine	1980	1160	58	0	31	46-120	
N-Nitrosodiphenylamine	1980	1790	91	0	15	20-128	
Naphthalene	1980	1400	71	4	29	46-120	
Nitrobenzene	1980	1520	77	2	24	49-120	
Pentachlorophenol	3960	3520	89	1	35	25-136	
Phenanthrene	1980	1670	84	3	15	60-122	
Phenol	1980	1230	62	0	35	50-120	
Pyrene	1980	1900	96	7	35	61-133	

Column to be used to flag recovery and RPD values

FORM III 8270D

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1

SDG No.:

Lab File ID: U326572.D Lab Sample ID: MB 480-367823/1-A

Matrix: Solid Date Extracted: 07/20/2017 07:46

Instrument ID: HP5973U Date Analyzed: 07/25/2017 15:23

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
TP-04 MS	480-121321-4 MS	U326574.D	07/25/2017 16:16
TP-04 MSD	480-121321-4 MSD	U326575.D	07/25/2017 16:42
TP-04	480-121321-4	U326576.D	07/25/2017 17:08
TP-01	480-121321-1	U326577.D	07/25/2017 17:35
TP-03	480-121321-2	U326578.D	07/25/2017 18:01
TP-05	480-121321-5	U326581.D	07/25/2017 19:46
DUP	480-121321-6	U326582.D	07/25/2017 20:12
	LCS 480-367823/2-A	U326587.D	07/25/2017 22:24
TP-18	480-121321-3	U326615.D	07/26/2017 23:46

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

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1

SDG No.:

Lab File ID: U326522.D DFTPP Injection Date: 07/21/2017

Instrument ID: HP5973U DFTPP Injection Time: 11:37

Analysis Batch No.: 368115

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10-80% of Base Peak	48.8	
68	Less than 2% of mass 69	0.0	(0.0) 1
69	Mass 69 Relative abundance	45.8	
70	Less than 2% of mass 69	0.0	(0.0) 1
127	10-80% of Base Peak	54.7	
197	Less than 2% of mass 198	0.0	
198	Base peak	100.0	
199	5-9% of mass 198	6.7	
275	10-60% of Base Peak	29.6	
365	Greater than 1% of mass 198	4.5	
441	present but less than 24% of mass 442	18.4	(16.2) 2
442	Greater than 50% of mass 198	114.0	
443	15-24% of mass 442	22.5	(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 480-368115/3	U326523.D	07/21/2017	12:19
	IC 480-368115/4	U326524.D	07/21/2017	12:46
	ICIS 480-368115/5	U326525.D	07/21/2017	13:12
	IC 480-368115/6	U326526.D	07/21/2017	13:39
	IC 480-368115/7	U326527.D	07/21/2017	14:05
	IC 480-368115/8	U326528.D	07/21/2017	14:32

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

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1

SDG No.:

Lab File ID: U326567.D DFTPP Injection Date: 07/25/2017

Instrument ID: HP5973U DFTPP Injection Time: 13:11

Analysis Batch No.: 368598

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10-80% of Base Peak	29.4	
68	Less than 2% of mass 69	0.0	(0.0) 1
69	Mass 69 Relative abundance	31.3	
70	Less than 2% of mass 69	0.0	(0.0) 1
127	10-80% of Base Peak	43.7	
197	Less than 2% of mass 198	0.0	
198	Base peak	100.0	
199	5-9% of mass 198	7.0	
275	10-60% of Base Peak	32.2	
365	Greater than 1% of mass 198	5.2	
441	present but less than 24% of mass 442	30.5	(16.1) 2
442	Greater than 50% of mass 198	189.8	
443	15-24% of mass 442	36.3	(19.1) 2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 480-368598/3	U326568.D	07/25/2017	13:37
	MB 480-367823/1-A	U326572.D	07/25/2017	15:23
TP-04 MS	480-121321-4 MS	U326574.D	07/25/2017	16:16
TP-04 MSD	480-121321-4 MSD	U326575.D	07/25/2017	16:42
TP-04	480-121321-4	U326576.D	07/25/2017	17:08
TP-01	480-121321-1	U326577.D	07/25/2017	17:35
TP-03	480-121321-2	U326578.D	07/25/2017	18:01
TP-05	480-121321-5	U326581.D	07/25/2017	19:46
DUP	480-121321-6	U326582.D	07/25/2017	20:12
	LCS 480-367823/2-A	U326587.D	07/25/2017	22:24

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

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1

SDG No.:

Lab File ID: U326589.D DFTPP Injection Date: 07/26/2017

Instrument ID: HP5973U DFTPP Injection Time: 12:15

Analysis Batch No.: 368788

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10-80% of Base Peak	36.5	
68	Less than 2% of mass 69	0.0	(0.0) 1
69	Mass 69 Relative abundance	38.4	
70	Less than 2% of mass 69	0.0	(0.0) 1
127	10-80% of Base Peak	49.2	
197	Less than 2% of mass 198	0.0	
198	Base peak	100.0	
199	5-9% of mass 198	7.4	
275	10-60% of Base Peak	29.2	
365	Greater than 1% of mass 198	3.7	
441	present but less than 24% of mass 442	19.0	(16.3) 2
442	Greater than 50% of mass 198	116.4	
443	15-24% of mass 442	22.2	(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
	IC 480-368788/3	U326590.D	07/26/2017	12:43
	IC 480-368788/4	U326591.D	07/26/2017	13:10
	IC 480-368788/5	U326592.D	07/26/2017	13:36
	ICIS 480-368788/6	U326593.D	07/26/2017	14:03
	IC 480-368788/7	U326594.D	07/26/2017	14:29
	IC 480-368788/8	U326595.D	07/26/2017	14:56
	IC 480-368788/9	U326596.D	07/26/2017	15:22

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

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1

SDG No.:

Lab File ID: U326606.D DFTPP Injection Date: 07/26/2017

Instrument ID: HP5973U DFTPP Injection Time: 19:48

Analysis Batch No.: 368904

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10-80% of Base Peak	28.7	
68	Less than 2% of mass 69	0.0	(0.0) 1
69	Mass 69 Relative abundance	32.8	
70	Less than 2% of mass 69	0.0	(0.0) 1
127	10-80% of Base Peak	43.8	
197	Less than 2% of mass 198	0.0	
198	Base peak	100.0	
199	5-9% of mass 198	7.4	
275	10-60% of Base Peak	33.0	
365	Greater than 1% of mass 198	5.1	
441	present but less than 24% of mass 442	4.0	(2.2) 2
442	Greater than 50% of mass 198	183.4	
443	15-24% of mass 442	36.6	(20.0) 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 480-368904/3	U326607.D	07/26/2017	20:14
TP-18	480-121321-3	U326615.D	07/26/2017	23:46

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

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1

SDG No.:

Sample No.: ICIS 480-368115/5 Date Analyzed: 07/21/2017 13:12

Instrument ID: HP5973U GC Column: RXI-5Sil MS(0.5 ID: 0.25(mm)

Lab File ID (Standard): U326525.D Heated Purge: (Y/N) N

Calibration ID: 30931

		DCBd4		NPT		ANT	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		93593	6.91	364287	8.43	174569	10.48
UPPER LIMIT		187186	7.41	728574	8.93	349138	10.98
LOWER LIMIT		46797	6.41	182144	7.93	87285	9.98
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCVIS 480-368598/3		113590	6.84	405395	8.36	189619	10.41

DCBd4 = 1,4-Dichlorobenzene-d4
NPT = Naphthalene-d8
ANT = Acenaphthene-d10

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

Column used to flag values outside QC limits

FORM VIII 8270D

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

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1

SDG No.:

Sample No.: ICIS 480-368115/5 Date Analyzed: 07/21/2017 13:12

Instrument ID: HP5973U GC Column: RXI-5Sil MS(0.5 ID: 0.25(mm)

Lab File ID (Standard): U326525.D Heated Purge: (Y/N) N

Calibration ID: 30931

		PHN		CRY		PRY	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		342979	11.98	423065	14.38	440812	15.98
UPPER LIMIT		685958	12.48	846130	14.88	881624	16.48
LOWER LIMIT		171490	11.48	211533	13.88	220406	15.48
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCVIS 480-368598/3		357940	11.93	435518	14.31	469691	15.88

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.: 480-121321-1

SDG No.:

Sample No.: CCVIS 480-368598/3 Date Analyzed: 07/25/2017 13:37

Instrument ID: HP5973U GC Column: RXI-5Sil MS(0.5 ID: 0.25(mm)

Lab File ID (Standard): U326568.D Heated Purge: (Y/N) N

Calibration ID: 30943

		DCBd4		NPT		ANT	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		113590	6.84	405395	8.36	189619	10.41
UPPER LIMIT		227180	7.34	810790	8.86	379238	10.91
LOWER LIMIT		56795	6.34	202698	7.86	94810	9.91
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 480-367823/1-A		184012	6.84	649311	8.36	286073	10.41
480-121321-4 MS	TP-04 MS	174259	6.84	583140	8.36	248617	10.41
480-121321-4 MSD	TP-04 MSD	199370	6.84	679491	8.36	289623	10.41
480-121321-4	TP-04	210675	6.84	736511	8.36	308150	10.41
480-121321-1	TP-01	123297	6.84	441603	8.36	202106	10.41
480-121321-2	TP-03	206675	6.84	724856	8.36	310299	10.41
480-121321-5	TP-05	153696	6.84	531933	8.35	234775	10.41
480-121321-6	DUP	177755	6.84	613778	8.36	262718	10.41
LCS 480-367823/2-A		160987	6.84	543889	8.36	232038	10.41

DCBd4 = 1,4-Dichlorobenzene-d4
NPT = Naphthalene-d8
ANT = Acenaphthene-d10

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

Column used to flag values outside QC limits

FORM VIII 8270D

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

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1

SDG No.:

Sample No.: CCVIS 480-368598/3 Date Analyzed: 07/25/2017 13:37

Instrument ID: HP5973U GC Column: RXI-5Sil MS(0.5 ID: 0.25(mm)

Lab File ID (Standard): U326568.D Heated Purge: (Y/N) N

Calibration ID: 30943

		PHN		CRY		PRY	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		357940	11.93	435518	14.31	469691	15.88
UPPER LIMIT		715880	12.43	871036	14.81	939382	16.38
LOWER LIMIT		178970	11.43	217759	13.81	234846	15.38
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 480-367823/1-A		473299	11.92	437116	14.31	388871	15.87
480-121321-4 MS	TP-04 MS	420790	11.92	437697	14.31	440684	15.87
480-121321-4 MSD	TP-04 MSD	481700	11.92	439035	14.31	416970	15.87
480-121321-4	TP-04	494896	11.92	415304	14.31	376129	15.87
480-121321-1	TP-01	387400	11.92	436300	14.31	442268	15.87
480-121321-2	TP-03	516251	11.92	469227	14.31	442899	15.87
480-121321-5	TP-05	423060	11.92	453671	14.31	466730	15.87
480-121321-6	DUP	446149	11.92	426621	14.31	414138	15.87
LCS 480-367823/2-A		389970	11.92	419924	14.31	474643	15.87

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.: 480-121321-1

SDG No.:

Sample No.: ICIS 480-368788/6 Date Analyzed: 07/26/2017 14:03

Instrument ID: HP5973U GC Column: RXI-5Sil MS(0.5 ID: 0.25(mm)

Lab File ID (Standard): U326593.D Heated Purge: (Y/N) N

Calibration ID: 30969

		DCBd4		NPT		ANT	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		180182	6.84	664584	8.35	333212	10.41
UPPER LIMIT		360364	7.34	1329168	8.85	666424	10.91
LOWER LIMIT		90091	6.34	332292	7.85	166606	9.91
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCVIS 480-368904/3		189131	6.84	666030	8.36	326745	10.41

DCBd4 = 1,4-Dichlorobenzene-d4
NPT = Naphthalene-d8
ANT = Acenaphthene-d10

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

Column used to flag values outside QC limits

FORM VIII 8270D

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

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1

SDG No.:

Sample No.: ICIS 480-368788/6 Date Analyzed: 07/26/2017 14:03

Instrument ID: HP5973U GC Column: RXI-5Sil MS(0.5 ID: 0.25(mm)

Lab File ID (Standard): U326593.D Heated Purge: (Y/N) N

Calibration ID: 30969

		PHN		CRY		PRY	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		650153	11.92	797970	14.31	791821	15.87
UPPER LIMIT		1300306	12.42	1595940	14.81	1583642	16.37
LOWER LIMIT		325077	11.42	398985	13.81	395911	15.37
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCVIS 480-368904/3		646982	11.92	814671	14.31	820017	15.87

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.: 480-121321-1

SDG No.:

Sample No.: CCVIS 480-368904/3 Date Analyzed: 07/26/2017 20:14

Instrument ID: HP5973U GC Column: RXI-5Sil MS(0.5 ID: 0.25(mm)

Lab File ID (Standard): U326607.D Heated Purge: (Y/N) N

Calibration ID: 30973

		DCBd4		NPT		ANT	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		189131	6.84	666030	8.36	326745	10.41
UPPER LIMIT		378262	7.34	1332060	8.86	653490	10.91
LOWER LIMIT		94566	6.34	333015	7.86	163373	9.91
LAB SAMPLE ID	CLIENT SAMPLE ID						
480-121321-3	TP-18	225269	6.84	788588	8.35	389947	10.41

DCBd4 = 1,4-Dichlorobenzene-d4
NPT = Naphthalene-d8
ANT = Acenaphthene-d10

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

Column used to flag values outside QC limits

FORM VIII 8270D

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

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1

SDG No.:

Sample No.: CCVIS 480-368904/3 Date Analyzed: 07/26/2017 20:14

Instrument ID: HP5973U GC Column: RXI-5Sil MS(0.5 ID: 0.25(mm)

Lab File ID (Standard): U326607.D Heated Purge: (Y/N) N

Calibration ID: 30973

		PHN		CRY		PRY	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		646982	11.92	814671	14.31	820017	15.87
UPPER LIMIT		1293964	12.42	1629342	14.81	1640034	16.37
LOWER LIMIT		323491	11.42	407336	13.81	410009	15.37
LAB SAMPLE ID	CLIENT SAMPLE ID						
480-121321-3	TP-18	754672	11.92	882288	14.31	963238	15.87

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.: 480-121321-1

SDG No.:

Client Sample ID: TP-01 | Lab Sample ID: 480-121321-1

Matrix: Solid | Lab File ID: U326577.D

Analysis Method: 8270D | Date Collected: 07/19/2017 09:00

Extract. Method: 3550C | Date Extracted: 07/20/2017 07:46

Sample wt/vol: 30.17(g) | Date Analyzed: 07/25/2017 17:35

Con. Extract Vol.: 1(mL) | Dilution Factor: 10

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

% Moisture: 20.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 368598 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	Biphenyl	ND		2100	310
108-60-1	bis (2-chloroisopropyl) ether	ND		2100	420
95-95-4	2,4,5-Trichlorophenol	ND		2100	570
88-06-2	2,4,6-Trichlorophenol	ND		2100	420
120-83-2	2,4-Dichlorophenol	ND		2100	220
105-67-9	2,4-Dimethylphenol	ND		2100	510
51-28-5	2,4-Dinitrophenol	ND		21000	9800
121-14-2	2,4-Dinitrotoluene	ND		2100	440
606-20-2	2,6-Dinitrotoluene	ND		2100	250
91-58-7	2-Chloronaphthalene	ND		2100	350
95-57-8	2-Chlorophenol	ND		2100	390
91-57-6	2-Methylnaphthalene	ND		2100	420
95-48-7	2-Methylphenol	ND		2100	250
88-74-4	2-Nitroaniline	ND		4100	310
88-75-5	2-Nitrophenol	ND		2100	600
91-94-1	3,3'-Dichlorobenzidine	ND		4100	2500
99-09-2	3-Nitroaniline	ND		4100	590
534-52-1	4,6-Dinitro-2-methylphenol	ND		4100	2100
101-55-3	4-Bromophenyl phenyl ether	ND		2100	300
59-50-7	4-Chloro-3-methylphenol	ND		2100	520
106-47-8	4-Chloroaniline	ND		2100	520
7005-72-3	4-Chlorophenyl phenyl ether	ND		2100	260
106-44-5	4-Methylphenol	ND		4100	250
100-01-6	4-Nitroaniline	ND		4100	1100
100-02-7	4-Nitrophenol	ND		4100	1500
83-32-9	Acenaphthene	ND		2100	310
208-96-8	Acenaphthylene	ND		2100	270
98-86-2	Acetophenone	ND		2100	290
120-12-7	Anthracene	ND		2100	520
1912-24-9	Atrazine	ND		2100	740
100-52-7	Benzaldehyde	ND		2100	1700
56-55-3	Benzo(a)anthracene	ND		2100	210
50-32-8	Benzo(a)pyrene	ND		2100	310
205-99-2	Benzo(b)fluoranthene	ND		2100	340

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121321-1

SDG No.:

Client Sample ID: TP-01 | Lab Sample ID: 480-121321-1

Matrix: Solid | Lab File ID: U326577.D

Analysis Method: 8270D | Date Collected: 07/19/2017 09:00

Extract. Method: 3550C | Date Extracted: 07/20/2017 07:46

Sample wt/vol: 30.17(g) | Date Analyzed: 07/25/2017 17:35

Con. Extract Vol.: 1(mL) | Dilution Factor: 10

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

% Moisture: 20.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 368598 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
191-24-2	Benzo(g,h,i)perylene	ND		2100	220
207-08-9	Benzo(k)fluoranthene	ND		2100	270
111-91-1	Bis(2-chloroethoxy)methane	ND		2100	450
111-44-4	Bis(2-chloroethyl)ether	ND		2100	270
117-81-7	Bis(2-ethylhexyl) phthalate	ND		2100	720
85-68-7	Butyl benzyl phthalate	ND		2100	350
105-60-2	Caprolactam	ND		2100	640
86-74-8	Carbazole	ND		2100	250
218-01-9	Chrysene	ND		2100	470
84-74-2	Di-n-butyl phthalate	ND		2100	360
117-84-0	Di-n-octyl phthalate	ND		2100	250
53-70-3	Dibenz(a,h)anthracene	ND		2100	370
132-64-9	Dibenzofuran	ND		2100	250
84-66-2	Diethyl phthalate	ND		2100	270
131-11-3	Dimethyl phthalate	ND		2100	250
206-44-0	Fluoranthene	ND		2100	220
86-73-7	Fluorene	ND		2100	250
118-74-1	Hexachlorobenzene	ND		2100	290
87-68-3	Hexachlorobutadiene	ND		2100	310
77-47-4	Hexachlorocyclopentadiene	ND		2100	290
67-72-1	Hexachloroethane	ND		2100	270
193-39-5	Indeno(1,2,3-cd)pyrene	ND		2100	260
78-59-1	Isophorone	ND		2100	450
621-64-7	N-Nitrosodi-n-propylamine	ND		2100	360
86-30-6	N-Nitrosodiphenylamine	ND		2100	1700
91-20-3	Naphthalene	ND		2100	270
98-95-3	Nitrobenzene	ND		2100	240
87-86-5	Pentachlorophenol	ND		4100	2100
85-01-8	Phenanthrene	ND		2100	310
108-95-2	Phenol	ND		2100	320
129-00-0	Pyrene	ND		2100	250

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121321-1

SDG No.:

Client Sample ID: TP-01 | Lab Sample ID: 480-121321-1

Matrix: Solid | Lab File ID: U326577.D

Analysis Method: 8270D | Date Collected: 07/19/2017 09:00

Extract. Method: 3550C | Date Extracted: 07/20/2017 07:46

Sample wt/vol: 30.17(g) | Date Analyzed: 07/25/2017 17:35

Con. Extract Vol.: 1(mL) | Dilution Factor: 10

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

% Moisture: 20.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 368598 | Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol	153	X	54-120
321-60-8	2-Fluorobiphenyl	85		60-120
367-12-4	2-Fluorophenol	70		52-120
4165-60-0	Nitrobenzene-d5	151	X	53-120
1718-51-0	p-Terphenyl-d14	87		65-121
4165-62-2	Phenol-d5	64		54-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20170725-64313.b\U326577.D
Lims ID: 480-121321-A-1-A
Client ID: TP-01
Sample Type: Client
Inject. Date: 25-Jul-2017 17:35:30 ALS Bottle#: 12 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Sample Info: 480-0064313-012
Operator ID: DR Instrument ID: HP5973U

Method: \\ChromNA\Buffalo\ChromData\HP5973U\20170725-64313.b\U-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 26-Jul-2017 10:59:22 Calib Date: 21-Jul-2017 22:04:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973U\20170721-64235.b\U326545.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK022

First Level Reviewer: richardsd Date: 26-Jul-2017 15:23:22

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.840	6.840	0.000	93	123297	40.0	
* 2 Naphthalene-d8	136	8.357	8.357	0.000	99	441603	40.0	
* 3 Acenaphthene-d10	164	10.408	10.414	-0.006	97	202106	40.0	
* 4 Phenanthrene-d10	188	11.920	11.920	0.000	95	387400	40.0	
* 5 Chrysene-d12	240	14.314	14.314	0.000	97	436300	40.0	
* 6 Perylene-d12	264	15.873	15.873	0.000	97	442268	40.0	
$ 7 2-Fluorophenol	112	5.242	5.242	0.000	88	10919	2.82	
$ 8 Phenol-d5	99	6.359	6.364	-0.005	99	12535	2.56	
$ 9 Nitrobenzene-d5	82	7.486	7.486	0.000	85	8956	6.04	
$ 10 2-Fluorobiphenyl	172	9.618	9.618	0.000	99	25750	3.39	
$ 11 2,4,6-Tribromophenol	330	11.236	11.236	0.000	84	3051	6.13	
$ 12 p-Terphenyl-d14	244	13.331	13.331	0.000	99	30788	3.49	
32 Benzaldehyde	77		6.311				ND	
33 Phenol	94		6.380				ND	
35 Bis(2-chloroethyl)ether	93		6.487				ND	
37 2-Chlorophenol	128		6.594				ND	
43 2-Methylphenol	108		7.102				ND	
44 2,2'-oxybis[1-chloropropan	45		7.139				ND	
46 4-Methylphenol	108		7.278				ND	
47 N-Nitrosodi-n-propylamine	70		7.289				ND	
49 Acetophenone	105		7.299				ND	
53 Hexachloroethane	117		7.460				ND	
54 Nitrobenzene	77		7.508				ND	
56 Isophorone	82		7.785				ND	
59 2-Nitrophenol	139		7.892				ND	
60 2,4-Dimethylphenol	107		7.914				ND	
62 Bis(2-chloroethoxy)methane	93		8.015				ND	
67 2,4-Dichlorophenol	162		8.175				ND	
70 Naphthalene	128		8.384				ND	
72 4-Chloroaniline	127		8.421				ND	
74 Hexachlorobutadiene	225		8.528				ND	
76 Caprolactam	113		8.806				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
80 4-Chloro-3-methylphenol	107		8.977				ND	
83 2-Methylnaphthalene	142		9.201				ND	
86 Hexachlorocyclopentadiene	237		9.399				ND	
89 2,4,6-Trichlorophenol	196		9.527				ND	
91 2,4,5-Trichlorophenol	196		9.575				ND	
94 1,1'-Biphenyl	154		9.741				ND	
95 2-Chloronaphthalene	162		9.778				ND	
98 2-Nitroaniline	65		9.874				ND	
102 Dimethyl phthalate	163		10.067				ND	
104 2,6-Dinitrotoluene	165		10.141				ND	
105 Acenaphthylene	152		10.259				ND	
106 3-Nitroaniline	138		10.334				ND	
108 Acenaphthene	153		10.446				ND	
107 2,4-Dinitrophenol	184		10.451				ND	
109 4-Nitrophenol	109		10.499				ND	
111 2,4-Dinitrotoluene	165		10.590				ND	
112 Dibenzofuran	168		10.633				ND	
118 Diethyl phthalate	149		10.830				ND	
121 4-Chlorophenyl phenyl ethe	204		10.969				ND	
122 4-Nitroaniline	138		10.985				ND	
123 Fluorene	166		10.996				ND	
125 4,6-Dinitro-2-methylphenol	198		11.028				ND	
127 N-Nitrosodiphenylamine	169		11.087				ND	
137 4-Bromophenyl phenyl ether	248		11.466				ND	
139 Hexachlorobenzene	284		11.562				ND	
141 Atrazine	200		11.589				ND	
143 Pentachlorophenol	266		11.739				ND	
150 Phenanthrene	178		11.947				ND	
151 Anthracene	178		11.995				ND	
152 Carbazole	167		12.129				ND	
155 Di-n-butyl phthalate	149		12.396				ND	
162 Fluoranthene	202		13.031				ND	
165 Pyrene	202		13.240				ND	
172 Butyl benzyl phthalate	149		13.721				ND	
178 Bis(2-ethylhexyl) phthalat	149		14.201				ND	
179 3,3'-Dichlorobenzidine	252		14.239				ND	
181 Benzo[a]anthracene	228		14.303				ND	
182 Chrysene	228		14.340				ND	
183 Di-n-octyl phthalate	149		14.789				ND	
185 Benzo[b]fluoranthene	252		15.403				ND	
187 Benzo[k]fluoranthene	252		15.435				ND	
190 Benzo[a]pyrene	252		15.809				ND	
193 Dibenz(a,h)anthracene	278		17.433				ND	
194 Indeno[1,2,3-cd]pyrene	276		17.444				ND	
195 Benzo[g,h,i]perylene	276		17.925				ND	

Reagents:

MB_INTSTD_STK_00036 Amount Added: 20.00 Units: uL Run Reagent

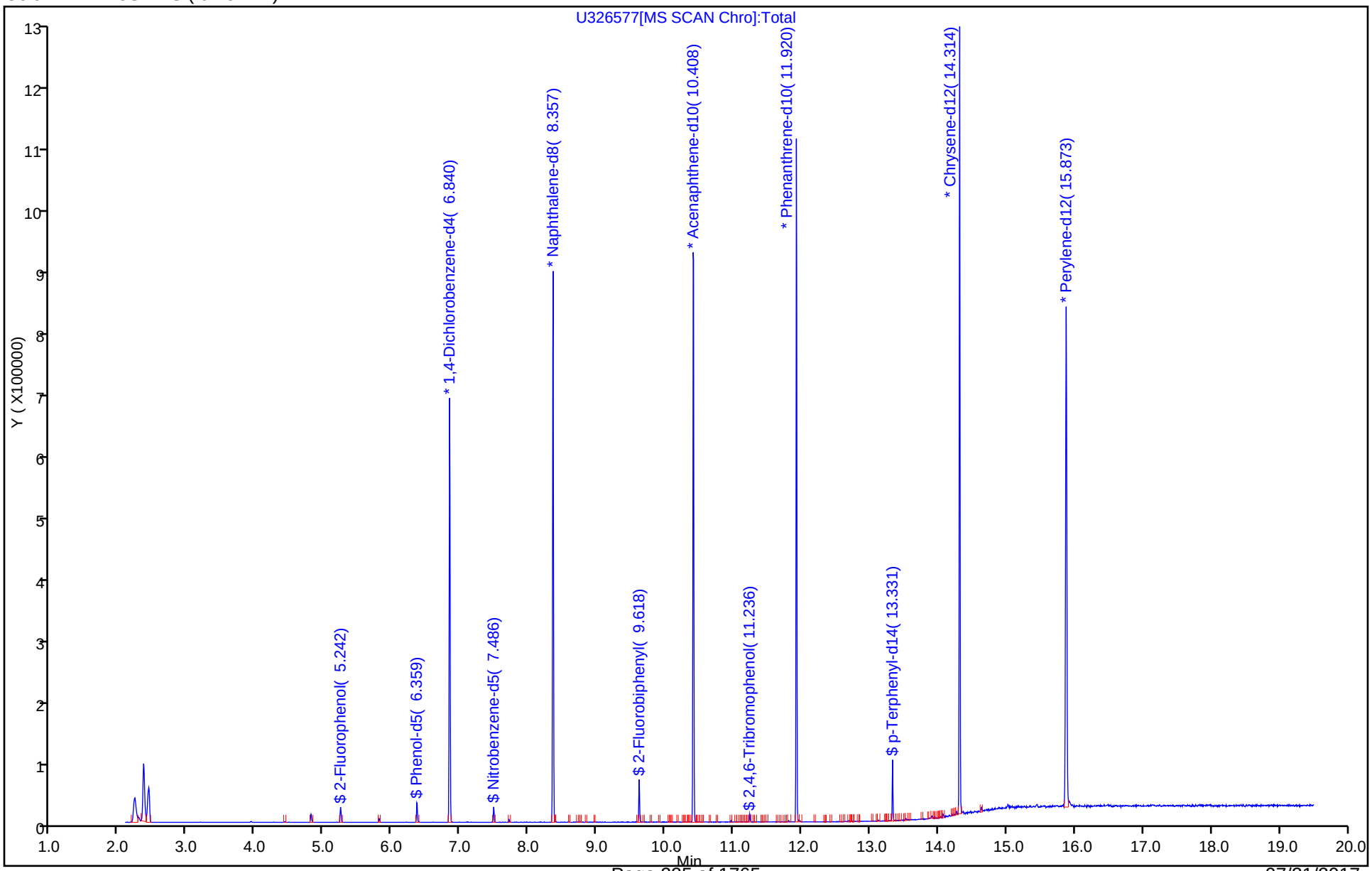
Report Date: 26-Jul-2017 15:23:22 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20170725-64313.b\U326577.D

Injection Date:	25-Jul-2017 17:35:30	Instrument ID:	HP5973U	Operator ID:	DR
Lims ID:	480-121321-A-1-A	Lab Sample ID:	480-121321-1	Worklist Smp#:	12
Client ID:	TP-01				
Injection Vol:	1.0 ul	Dil. Factor:	10.0000	ALS Bottle#:	12
Method:	U-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.: 480-121321-1

SDG No.:

Client Sample ID: TP-03 | Lab Sample ID: 480-121321-2

Matrix: Solid | Lab File ID: U326578.D

Analysis Method: 8270D | Date Collected: 07/19/2017 10:00

Extract. Method: 3550C | Date Extracted: 07/20/2017 07:46

Sample wt/vol: 30.08(g) | Date Analyzed: 07/25/2017 18:01

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

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

% Moisture: 17.4 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 368598 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	Biphenyl	ND		210	30
108-60-1	bis (2-chloroisopropyl) ether	ND		210	41
95-95-4	2,4,5-Trichlorophenol	ND		210	56
88-06-2	2,4,6-Trichlorophenol	ND		210	41
120-83-2	2,4-Dichlorophenol	ND		210	22
105-67-9	2,4-Dimethylphenol	ND		210	50
51-28-5	2,4-Dinitrophenol	ND		2000	950
121-14-2	2,4-Dinitrotoluene	ND		210	42
606-20-2	2,6-Dinitrotoluene	ND		210	24
91-58-7	2-Chloronaphthalene	ND		210	34
95-57-8	2-Chlorophenol	ND		210	37
91-57-6	2-Methylnaphthalene	ND		210	41
95-48-7	2-Methylphenol	ND		210	24
88-74-4	2-Nitroaniline	ND		400	30
88-75-5	2-Nitrophenol	ND		210	58
91-94-1	3,3'-Dichlorobenzidine	ND		400	240
99-09-2	3-Nitroaniline	ND		400	57
534-52-1	4,6-Dinitro-2-methylphenol	ND		400	210
101-55-3	4-Bromophenyl phenyl ether	ND		210	29
59-50-7	4-Chloro-3-methylphenol	ND		210	51
106-47-8	4-Chloroaniline	ND		210	51
7005-72-3	4-Chlorophenyl phenyl ether	ND		210	25
106-44-5	4-Methylphenol	ND		400	24
100-01-6	4-Nitroaniline	ND		400	110
100-02-7	4-Nitrophenol	ND		400	140
83-32-9	Acenaphthene	ND		210	30
208-96-8	Acenaphthylene	ND		210	27
98-86-2	Acetophenone	ND		210	28
120-12-7	Anthracene	ND		210	51
1912-24-9	Atrazine	ND		210	71
100-52-7	Benzaldehyde	ND		210	160
56-55-3	Benzo(a)anthracene	ND		210	21
50-32-8	Benzo(a)pyrene	ND		210	30
205-99-2	Benzo(b)fluoranthene	ND		210	33

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121321-1

SDG No.:

Client Sample ID: TP-03 | Lab Sample ID: 480-121321-2

Matrix: Solid | Lab File ID: U326578.D

Analysis Method: 8270D | Date Collected: 07/19/2017 10:00

Extract. Method: 3550C | Date Extracted: 07/20/2017 07:46

Sample wt/vol: 30.08(g) | Date Analyzed: 07/25/2017 18:01

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

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

% Moisture: 17.4 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 368598 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
191-24-2	Benzo(g,h,i)perylene	ND		210	22
207-08-9	Benzo(k)fluoranthene	ND		210	27
111-91-1	Bis(2-chloroethoxy)methane	ND		210	43
111-44-4	Bis(2-chloroethyl)ether	ND		210	27
117-81-7	Bis(2-ethylhexyl) phthalate	ND		210	70
85-68-7	Butyl benzyl phthalate	ND		210	34
105-60-2	Caprolactam	ND		210	62
86-74-8	Carbazole	ND		210	24
218-01-9	Chrysene	ND		210	46
84-74-2	Di-n-butyl phthalate	ND		210	35
117-84-0	Di-n-octyl phthalate	ND		210	24
53-70-3	Dibenz(a,h)anthracene	ND		210	36
132-64-9	Dibenzofuran	ND		210	24
84-66-2	Diethyl phthalate	ND		210	27
131-11-3	Dimethyl phthalate	ND		210	24
206-44-0	Fluoranthene	ND		210	22
86-73-7	Fluorene	ND		210	24
118-74-1	Hexachlorobenzene	ND		210	28
87-68-3	Hexachlorobutadiene	ND		210	30
77-47-4	Hexachlorocyclopentadiene	ND		210	28
67-72-1	Hexachloroethane	ND		210	27
193-39-5	Indeno(1,2,3-cd)pyrene	ND		210	25
78-59-1	Isophorone	ND		210	43
621-64-7	N-Nitrosodi-n-propylamine	ND		210	35
86-30-6	N-Nitrosodiphenylamine	ND		210	170
91-20-3	Naphthalene	ND		210	27
98-95-3	Nitrobenzene	ND		210	23
87-86-5	Pentachlorophenol	ND		400	210
85-01-8	Phenanthrene	ND		210	30
108-95-2	Phenol	ND		210	31
129-00-0	Pyrene	ND		210	24

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121321-1

SDG No.:

Client Sample ID: TP-03 | Lab Sample ID: 480-121321-2

Matrix: Solid | Lab File ID: U326578.D

Analysis Method: 8270D | Date Collected: 07/19/2017 10:00

Extract. Method: 3550C | Date Extracted: 07/20/2017 07:46

Sample wt/vol: 30.08(g) | Date Analyzed: 07/25/2017 18:01

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

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

% Moisture: 17.4 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 368598 | Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol	89		54-120
321-60-8	2-Fluorobiphenyl	78		60-120
367-12-4	2-Fluorophenol	69		52-120
4165-60-0	Nitrobenzene-d5	78		53-120
1718-51-0	p-Terphenyl-d14	95		65-121
4165-62-2	Phenol-d5	66		54-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20170725-64313.b\U326578.D
Lims ID: 480-121321-A-2-A
Client ID: TP-03
Sample Type: Client
Inject. Date: 25-Jul-2017 18:01:30 ALS Bottle#: 13 Worklist Smp#: 13
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 480-0064313-013
Operator ID: DR Instrument ID: HP5973U

Method: \\ChromNA\Buffalo\ChromData\HP5973U\20170725-64313.b\U-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 26-Jul-2017 10:56:34 Calib Date: 21-Jul-2017 22:04:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973U\20170721-64235.b\U326545.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK022

First Level Reviewer: richardsd Date: 25-Jul-2017 19:23:24

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.840	6.840	0.000	94	206675	40.0	
* 2 Naphthalene-d8	136	8.357	8.357	0.000	99	724856	40.0	
* 3 Acenaphthene-d10	164	10.414	10.414	0.000	96	310299	40.0	
* 4 Phenanthrene-d10	188	11.920	11.920	0.000	95	516251	40.0	
* 5 Chrysene-d12	240	14.313	14.314	-0.001	97	469227	40.0	
* 6 Perylene-d12	264	15.873	15.873	0.000	97	442899	40.0	
$ 7 2-Fluorophenol	112	5.242	5.242	0.000	91	179371	27.6	
$ 8 Phenol-d5	99	6.359	6.364	-0.005	98	217894	26.6	
$ 9 Nitrobenzene-d5	82	7.486	7.486	0.000	86	156667	31.3	
$ 10 2-Fluorobiphenyl	172	9.618	9.618	0.000	99	363151	31.1	
$ 11 2,4,6-Tribromophenol	330	11.236	11.236	0.000	89	58735	35.5	
$ 12 p-Terphenyl-d14	244	13.330	13.331	-0.001	100	360916	38.0	
32 Benzaldehyde	77		6.311				ND	
33 Phenol	94		6.380				ND	
35 Bis(2-chloroethyl)ether	93		6.487				ND	
37 2-Chlorophenol	128		6.594				ND	
43 2-Methylphenol	108		7.102				ND	
44 2,2'-oxybis[1-chloropropan	45		7.139				ND	
46 4-Methylphenol	108		7.278				ND	
47 N-Nitrosodi-n-propylamine	70		7.289				ND	
49 Acetophenone	105		7.299				ND	
53 Hexachloroethane	117		7.460				ND	
54 Nitrobenzene	77		7.508				ND	
56 Isophorone	82		7.785				ND	
59 2-Nitrophenol	139		7.892				ND	
60 2,4-Dimethylphenol	107		7.914				ND	
62 Bis(2-chloroethoxy)methane	93		8.015				ND	
67 2,4-Dichlorophenol	162		8.175				ND	
70 Naphthalene	128		8.384				ND	
72 4-Chloroaniline	127		8.421				ND	
74 Hexachlorobutadiene	225		8.528				ND	
76 Caprolactam	113		8.806				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
80 4-Chloro-3-methylphenol	107		8.977				ND	
83 2-Methylnaphthalene	142		9.201				ND	
86 Hexachlorocyclopentadiene	237		9.399				ND	
89 2,4,6-Trichlorophenol	196		9.527				ND	
91 2,4,5-Trichlorophenol	196		9.575				ND	
94 1,1'-Biphenyl	154		9.741				ND	
95 2-Chloronaphthalene	162		9.778				ND	
98 2-Nitroaniline	65		9.874				ND	
102 Dimethyl phthalate	163		10.067				ND	
104 2,6-Dinitrotoluene	165		10.141				ND	
105 Acenaphthylene	152		10.259				ND	
106 3-Nitroaniline	138		10.334				ND	
108 Acenaphthene	153		10.446				ND	
107 2,4-Dinitrophenol	184		10.451				ND	
109 4-Nitrophenol	109		10.499				ND	
111 2,4-Dinitrotoluene	165		10.590				ND	
112 Dibenzofuran	168		10.633				ND	
118 Diethyl phthalate	149		10.830				ND	
121 4-Chlorophenyl phenyl ethe	204		10.969				ND	
122 4-Nitroaniline	138		10.985				ND	
123 Fluorene	166		10.996				ND	
125 4,6-Dinitro-2-methylphenol	198		11.028				ND	
127 N-Nitrosodiphenylamine	169		11.087				ND	
137 4-Bromophenyl phenyl ether	248		11.466				ND	
139 Hexachlorobenzene	284		11.562				ND	
141 Atrazine	200		11.589				ND	
143 Pentachlorophenol	266		11.739				ND	
150 Phenanthrene	178		11.947				ND	
151 Anthracene	178		11.995				ND	
152 Carbazole	167		12.129				ND	
155 Di-n-butyl phthalate	149		12.396				ND	
162 Fluoranthene	202		13.031				ND	
165 Pyrene	202		13.240				ND	
172 Butyl benzyl phthalate	149		13.721				ND	
178 Bis(2-ethylhexyl) phthalat	149		14.201				ND	
179 3,3'-Dichlorobenzidine	252		14.239				ND	
181 Benzo[a]anthracene	228		14.303				ND	
182 Chrysene	228		14.340				ND	
183 Di-n-octyl phthalate	149		14.789				ND	
185 Benzo[b]fluoranthene	252		15.403				ND	
187 Benzo[k]fluoranthene	252		15.435				ND	
190 Benzo[a]pyrene	252		15.809				ND	
193 Dibenz(a,h)anthracene	278		17.433				ND	
194 Indeno[1,2,3-cd]pyrene	276		17.444				ND	
195 Benzo[g,h,i]perylene	276		17.925				ND	

Reagents:

MB_INTSTD_STK_00036 Amount Added: 20.00 Units: uL Run Reagent

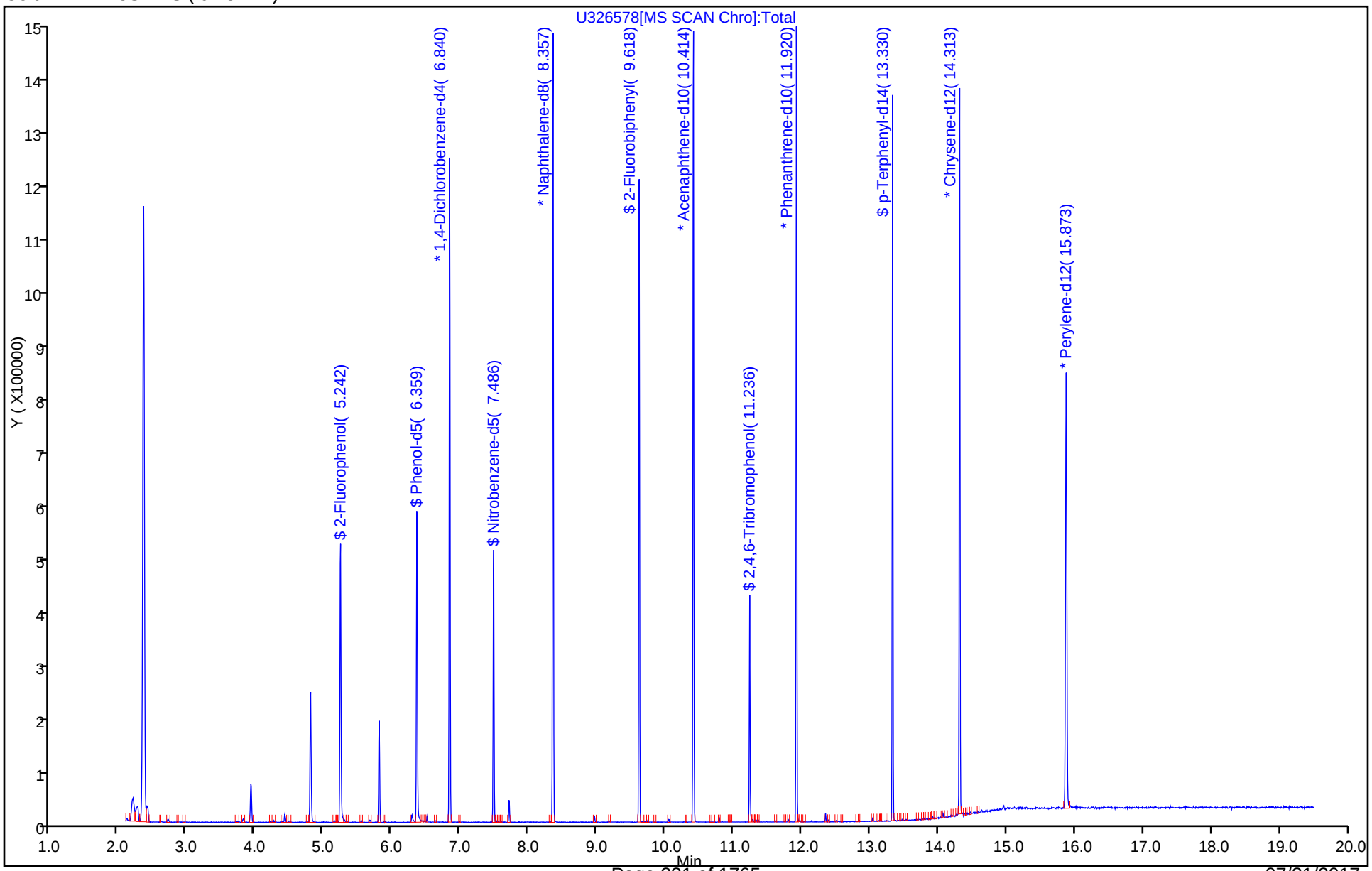
Report Date: 26-Jul-2017 10:57:59 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20170725-64313.b\U326578.D

Injection Date:	25-Jul-2017 18:01:30	Instrument ID:	HP5973U	Operator ID:	DR
Lims ID:	480-121321-A-2-A	Lab Sample ID:	480-121321-2	Worklist Smp#:	13
Client ID:	TP-03				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	U-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.: 480-121321-1

SDG No.:

Client Sample ID: TP-18 | Lab Sample ID: 480-121321-3

Matrix: Solid | Lab File ID: U326615.D

Analysis Method: 8270D | Date Collected: 07/19/2017 11:00

Extract. Method: 3550C | Date Extracted: 07/20/2017 07:46

Sample wt/vol: 30.55(g) | Date Analyzed: 07/26/2017 23:46

Con. Extract Vol.: 1(mL) | Dilution Factor: 10

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

% Moisture: 21.9 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 368904 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	Biphenyl	ND		2100	310
108-60-1	bis (2-chloroisopropyl) ether	ND		2100	430
95-95-4	2,4,5-Trichlorophenol	ND		2100	580
88-06-2	2,4,6-Trichlorophenol	ND		2100	430
120-83-2	2,4-Dichlorophenol	ND		2100	230
105-67-9	2,4-Dimethylphenol	ND		2100	520
51-28-5	2,4-Dinitrophenol	ND		21000	9900
121-14-2	2,4-Dinitrotoluene	ND		2100	440
606-20-2	2,6-Dinitrotoluene	ND		2100	250
91-58-7	2-Chloronaphthalene	ND		2100	350
95-57-8	2-Chlorophenol	ND		2100	390
91-57-6	2-Methylnaphthalene	ND		2100	430
95-48-7	2-Methylphenol	ND		2100	250
88-74-4	2-Nitroaniline	ND		4200	310
88-75-5	2-Nitrophenol	ND		2100	600
91-94-1	3,3'-Dichlorobenzidine	ND		4200	2500
99-09-2	3-Nitroaniline	ND		4200	590
534-52-1	4,6-Dinitro-2-methylphenol	ND		4200	2100
101-55-3	4-Bromophenyl phenyl ether	ND		2100	300
59-50-7	4-Chloro-3-methylphenol	ND		2100	530
106-47-8	4-Chloroaniline	ND		2100	530
7005-72-3	4-Chlorophenyl phenyl ether	ND		2100	260
106-44-5	4-Methylphenol	ND		4200	250
100-01-6	4-Nitroaniline	ND		4200	1100
100-02-7	4-Nitrophenol	ND		4200	1500
83-32-9	Acenaphthene	ND		2100	310
208-96-8	Acenaphthylene	ND		2100	280
98-86-2	Acetophenone	ND		2100	290
120-12-7	Anthracene	ND		2100	530
1912-24-9	Atrazine	ND		2100	740
100-52-7	Benzaldehyde	ND		2100	1700
56-55-3	Benzo(a)anthracene	ND		2100	210
50-32-8	Benzo(a)pyrene	ND		2100	310
205-99-2	Benzo(b)fluoranthene	ND		2100	340

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121321-1

SDG No.:

Client Sample ID: TP-18 | Lab Sample ID: 480-121321-3

Matrix: Solid | Lab File ID: U326615.D

Analysis Method: 8270D | Date Collected: 07/19/2017 11:00

Extract. Method: 3550C | Date Extracted: 07/20/2017 07:46

Sample wt/vol: 30.55(g) | Date Analyzed: 07/26/2017 23:46

Con. Extract Vol.: 1(mL) | Dilution Factor: 10

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

% Moisture: 21.9 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 368904 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
191-24-2	Benzo(g,h,i)perylene	ND		2100	230
207-08-9	Benzo(k)fluoranthene	ND		2100	280
111-91-1	Bis(2-chloroethoxy)methane	ND		2100	450
111-44-4	Bis(2-chloroethyl)ether	ND		2100	280
117-81-7	Bis(2-ethylhexyl) phthalate	ND		2100	730
85-68-7	Butyl benzyl phthalate	ND		2100	350
105-60-2	Caprolactam	ND		2100	640
86-74-8	Carbazole	ND		2100	250
218-01-9	Chrysene	ND		2100	480
84-74-2	Di-n-butyl phthalate	ND		2100	360
117-84-0	Di-n-octyl phthalate	ND		2100	250
53-70-3	Dibenz(a,h)anthracene	ND		2100	380
132-64-9	Dibenzofuran	ND		2100	250
84-66-2	Diethyl phthalate	ND		2100	280
131-11-3	Dimethyl phthalate	ND		2100	250
206-44-0	Fluoranthene	ND		2100	230
86-73-7	Fluorene	ND		2100	250
118-74-1	Hexachlorobenzene	ND		2100	290
87-68-3	Hexachlorobutadiene	ND		2100	310
77-47-4	Hexachlorocyclopentadiene	ND		2100	290
67-72-1	Hexachloroethane	ND		2100	280
193-39-5	Indeno(1,2,3-cd)pyrene	ND		2100	260
78-59-1	Isophorone	ND		2100	450
621-64-7	N-Nitrosodi-n-propylamine	ND		2100	360
86-30-6	N-Nitrosodiphenylamine	ND		2100	1700
91-20-3	Naphthalene	ND		2100	280
98-95-3	Nitrobenzene	ND		2100	240
87-86-5	Pentachlorophenol	ND		4200	2100
85-01-8	Phenanthrene	ND		2100	310
108-95-2	Phenol	ND		2100	330
129-00-0	Pyrene	ND		2100	250

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121321-1

SDG No.:

Client Sample ID: TP-18 | Lab Sample ID: 480-121321-3

Matrix: Solid | Lab File ID: U326615.D

Analysis Method: 8270D | Date Collected: 07/19/2017 11:00

Extract. Method: 3550C | Date Extracted: 07/20/2017 07:46

Sample wt/vol: 30.55(g) | Date Analyzed: 07/26/2017 23:46

Con. Extract Vol.: 1(mL) | Dilution Factor: 10

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

% Moisture: 21.9 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 368904 | Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol	94		54-120
321-60-8	2-Fluorobiphenyl	45	X	60-120
367-12-4	2-Fluorophenol	60		52-120
4165-60-0	Nitrobenzene-d5	65		53-120
1718-51-0	p-Terphenyl-d14	83		65-121
4165-62-2	Phenol-d5	58		54-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20170726-64362.b\U326615.D
Lims ID: 480-121321-A-3-A
Client ID: TP-18
Sample Type: Client
Inject. Date: 26-Jul-2017 23:46:30 ALS Bottle#: 36 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Sample Info: 480-0064362-011
Operator ID: DR Instrument ID: HP5973U

Method: \\ChromNA\Buffalo\ChromData\HP5973U\20170726-64362.b\U-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 28-Jul-2017 15:24:53 Calib Date: 26-Jul-2017 18:28:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973U\20170726-64341.b\U326603.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK021

First Level Reviewer: richardsd Date: 28-Jul-2017 15:04:13

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.840	6.840	0.000	93	225269	40.0	
* 2 Naphthalene-d8	136	8.351	8.352	-0.001	99	788588	40.0	
* 3 Acenaphthene-d10	164	10.408	10.408	0.000	96	389947	40.0	
* 4 Phenanthrene-d10	188	11.920	11.920	0.000	95	754672	40.0	
* 5 Chrysene-d12	240	14.313	14.314	-0.001	97	882288	40.0	
* 6 Perylene-d12	264	15.873	15.874	-0.001	97	963238	40.0	
$ 7 2-Fluorophenol	112	5.237	5.242	-0.005	90	16265	2.40	
$ 8 Phenol-d5	99	6.359	6.359	0.000	32	19008	2.33	
$ 9 Nitrobenzene-d5	82	7.486	7.486	0.000	85	12686	2.62	
$ 10 2-Fluorobiphenyl	172	9.618	9.618	0.000	99	41673	1.78	
$ 11 2,4,6-Tribromophenol	330	11.236	11.236	0.000	86	6075	3.78	
$ 12 p-Terphenyl-d14	244	13.330	13.330	0.000	100	61614	3.30	
32 Benzaldehyde	77		6.305				ND	
33 Phenol	94		6.375				ND	
35 Bis(2-chloroethyl)ether	93		6.487				ND	
37 2-Chlorophenol	128		6.589				ND	
43 2-Methylphenol	108		7.101				ND	
44 2,2'-oxybis[1-chloropropan	45		7.139				ND	
46 4-Methylphenol	108		7.278				ND	
47 N-Nitrosodi-n-propylamine	70		7.283				ND	
49 Acetophenone	105		7.299				ND	
53 Hexachloroethane	117		7.459				ND	
54 Nitrobenzene	77		7.507				ND	
56 Isophorone	82		7.780				ND	
59 2-Nitrophenol	139		7.887				ND	
60 2,4-Dimethylphenol	107		7.913				ND	
62 Bis(2-chloroethoxy)methane	93		8.015				ND	
67 2,4-Dichlorophenol	162		8.175				ND	
70 Naphthalene	128		8.378				ND	
72 4-Chloroaniline	127		8.416				ND	
74 Hexachlorobutadiene	225		8.528				ND	
76 Caprolactam	113		8.806				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
80 4-Chloro-3-methylphenol	107		8.977				ND	
83 2-Methylnaphthalene	142		9.196				ND	
86 Hexachlorocyclopentadiene	237		9.393				ND	
89 2,4,6-Trichlorophenol	196		9.521				ND	
91 2,4,5-Trichlorophenol	196		9.570				ND	
94 1,1'-Biphenyl	154		9.741				ND	
95 2-Chloronaphthalene	162		9.778				ND	
98 2-Nitroaniline	65		9.874				ND	
102 Dimethyl phthalate	163		10.061				ND	
104 2,6-Dinitrotoluene	165		10.136				ND	
105 Acenaphthylene	152		10.253				ND	
106 3-Nitroaniline	138		10.333				ND	
107 2,4-Dinitrophenol	184		10.446				ND	
108 Acenaphthene	153		10.446				ND	
109 4-Nitrophenol	109		10.499				ND	
111 2,4-Dinitrotoluene	165		10.585				ND	
112 Dibenzofuran	168		10.633				ND	
118 Diethyl phthalate	149		10.825				ND	
121 4-Chlorophenyl phenyl ethe	204		10.969				ND	
122 4-Nitroaniline	138		10.985				ND	
123 Fluorene	166		10.991				ND	
125 4,6-Dinitro-2-methylphenol	198		11.023				ND	
127 N-Nitrosodiphenylamine	169		11.087				ND	
137 4-Bromophenyl phenyl ether	248		11.466				ND	
139 Hexachlorobenzene	284		11.562				ND	
141 Atrazine	200		11.589				ND	
143 Pentachlorophenol	266		11.739				ND	
150 Phenanthrene	178		11.947				ND	
151 Anthracene	178		11.990				ND	
152 Carbazole	167		12.123				ND	
155 Di-n-butyl phthalate	149		12.390				ND	
162 Fluoranthene	202		13.031				ND	
165 Pyrene	202		13.240				ND	
172 Butyl benzyl phthalate	149		13.720				ND	
178 Bis(2-ethylhexyl) phthalat	149		14.196				ND	
179 3,3'-Dichlorobenzidine	252		14.239				ND	
181 Benzo[a]anthracene	228		14.303				ND	
182 Chrysene	228		14.340				ND	
183 Di-n-octyl phthalate	149		14.789				ND	
185 Benzo[b]fluoranthene	252		15.403				ND	
187 Benzo[k]fluoranthene	252		15.435				ND	
190 Benzo[a]pyrene	252		15.804				ND	
193 Dibenz(a,h)anthracene	278		17.428				ND	
194 Indeno[1,2,3-cd]pyrene	276		17.439				ND	
195 Benzo[g,h,i]perylene	276		17.925				ND	

Reagents:

MB_INTSTD_STK_00036 Amount Added: 20.00 Units: uL Run Reagent

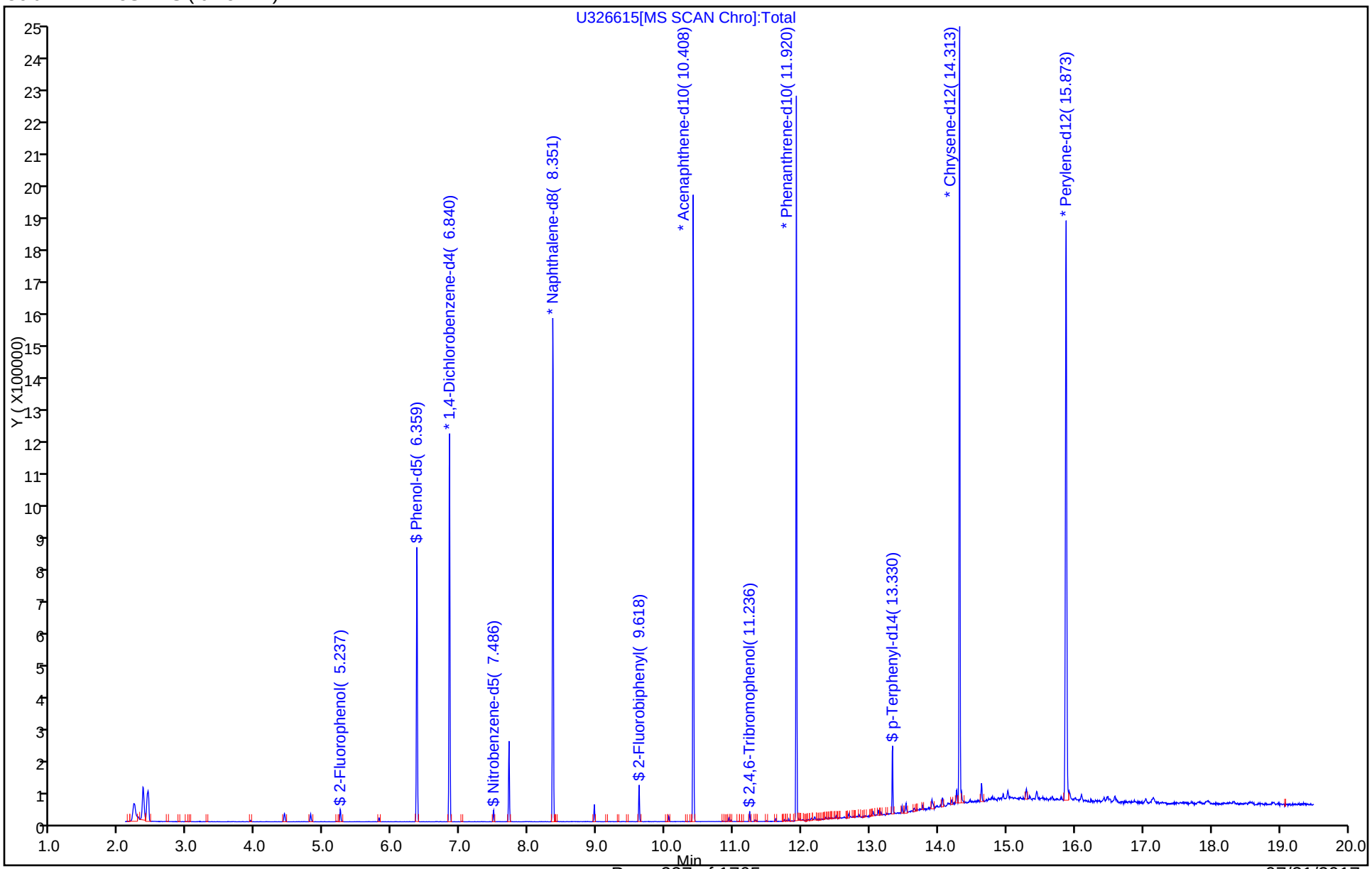
Report Date: 28-Jul-2017 15:25:42 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20170726-64362.b\U326615.D

Injection Date:	26-Jul-2017 23:46:30	Instrument ID:	HP5973U	Operator ID:	DR
Lims ID:	480-121321-A-3-A	Lab Sample ID:	480-121321-3	Worklist Smp#:	11
Client ID:	TP-18				
Injection Vol:	1.0 ul	Dil. Factor:	10.0000	ALS Bottle#:	36
Method:	U-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.: 480-121321-1

SDG No.:

Client Sample ID: TP-04 | Lab Sample ID: 480-121321-4

Matrix: Solid | Lab File ID: U326576.D

Analysis Method: 8270D | Date Collected: 07/19/2017 13:00

Extract. Method: 3550C | Date Extracted: 07/20/2017 07:46

Sample wt/vol: 30.84(g) | Date Analyzed: 07/25/2017 17:08

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

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

% Moisture: 17.9 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 368598 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	Biphenyl	ND		200	30
108-60-1	bis (2-chloroisopropyl) ether	ND		200	40
95-95-4	2,4,5-Trichlorophenol	ND		200	55
88-06-2	2,4,6-Trichlorophenol	ND		200	40
120-83-2	2,4-Dichlorophenol	ND		200	21
105-67-9	2,4-Dimethylphenol	ND		200	49
51-28-5	2,4-Dinitrophenol	ND		2000	930
121-14-2	2,4-Dinitrotoluene	ND		200	41
606-20-2	2,6-Dinitrotoluene	ND		200	24
91-58-7	2-Chloronaphthalene	ND		200	33
95-57-8	2-Chlorophenol	ND		200	37
91-57-6	2-Methylnaphthalene	ND		200	40
95-48-7	2-Methylphenol	ND		200	24
88-74-4	2-Nitroaniline	ND		390	30
88-75-5	2-Nitrophenol	ND		200	57
91-94-1	3,3'-Dichlorobenzidine	ND		390	240
99-09-2	3-Nitroaniline	ND		390	56
534-52-1	4,6-Dinitro-2-methylphenol	ND		390	200
101-55-3	4-Bromophenyl phenyl ether	ND		200	28
59-50-7	4-Chloro-3-methylphenol	ND		200	50
106-47-8	4-Chloroaniline	ND		200	50
7005-72-3	4-Chlorophenyl phenyl ether	ND		200	25
106-44-5	4-Methylphenol	ND		390	24
100-01-6	4-Nitroaniline	ND		390	110
100-02-7	4-Nitrophenol	ND		390	140
83-32-9	Acenaphthene	ND		200	30
208-96-8	Acenaphthylene	ND		200	26
98-86-2	Acetophenone	ND		200	27
120-12-7	Anthracene	ND		200	50
1912-24-9	Atrazine	ND		200	70
100-52-7	Benzaldehyde	ND		200	160
56-55-3	Benzo(a)anthracene	ND		200	20
50-32-8	Benzo(a)pyrene	ND		200	30
205-99-2	Benzo(b)fluoranthene	ND		200	32

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121321-1

SDG No.:

Client Sample ID: TP-04 | Lab Sample ID: 480-121321-4

Matrix: Solid | Lab File ID: U326576.D

Analysis Method: 8270D | Date Collected: 07/19/2017 13:00

Extract. Method: 3550C | Date Extracted: 07/20/2017 07:46

Sample wt/vol: 30.84(g) | Date Analyzed: 07/25/2017 17:08

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

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

% Moisture: 17.9 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 368598 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
191-24-2	Benzo(g,h,i)perylene	ND		200	21
207-08-9	Benzo(k)fluoranthene	ND		200	26
111-91-1	Bis(2-chloroethoxy)methane	ND		200	43
111-44-4	Bis(2-chloroethyl)ether	ND		200	26
117-81-7	Bis(2-ethylhexyl) phthalate	ND		200	69
85-68-7	Butyl benzyl phthalate	ND		200	33
105-60-2	Caprolactam	ND		200	60
86-74-8	Carbazole	ND		200	24
218-01-9	Chrysene	ND		200	45
84-74-2	Di-n-butyl phthalate	ND		200	34
117-84-0	Di-n-octyl phthalate	ND		200	24
53-70-3	Dibenz(a,h)anthracene	ND		200	36
132-64-9	Dibenzofuran	ND		200	24
84-66-2	Diethyl phthalate	ND		200	26
131-11-3	Dimethyl phthalate	ND		200	24
206-44-0	Fluoranthene	ND		200	21
86-73-7	Fluorene	ND		200	24
118-74-1	Hexachlorobenzene	ND		200	27
87-68-3	Hexachlorobutadiene	ND		200	30
77-47-4	Hexachlorocyclopentadiene	ND		200	27
67-72-1	Hexachloroethane	ND		200	26
193-39-5	Indeno(1,2,3-cd)pyrene	ND		200	25
78-59-1	Isophorone	ND		200	43
621-64-7	N-Nitrosodi-n-propylamine	ND		200	34
86-30-6	N-Nitrosodiphenylamine	ND		200	160
91-20-3	Naphthalene	ND		200	26
98-95-3	Nitrobenzene	ND		200	23
87-86-5	Pentachlorophenol	ND		390	200
85-01-8	Phenanthrene	ND		200	30
108-95-2	Phenol	ND		200	31
129-00-0	Pyrene	ND		200	24

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121321-1

SDG No.:

Client Sample ID: TP-04 | Lab Sample ID: 480-121321-4

Matrix: Solid | Lab File ID: U326576.D

Analysis Method: 8270D | Date Collected: 07/19/2017 13:00

Extract. Method: 3550C | Date Extracted: 07/20/2017 07:46

Sample wt/vol: 30.84(g) | Date Analyzed: 07/25/2017 17:08

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

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

% Moisture: 17.9 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 368598 | Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol	89		54-120
321-60-8	2-Fluorobiphenyl	81		60-120
367-12-4	2-Fluorophenol	71		52-120
4165-60-0	Nitrobenzene-d5	83		53-120
1718-51-0	p-Terphenyl-d14	98		65-121
4165-62-2	Phenol-d5	66		54-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20170725-64313.b\U326576.D
Lims ID: 480-121321-A-4-C
Client ID: TP-04
Sample Type: Client
Inject. Date: 25-Jul-2017 17:08:30 ALS Bottle#: 11 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 480-0064313-011
Operator ID: DR Instrument ID: HP5973U

Method: \\ChromNA\Buffalo\ChromData\HP5973U\20170725-64313.b\U-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 26-Jul-2017 10:56:34 Calib Date: 21-Jul-2017 22:04:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973U\20170721-64235.b\U326545.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK022

First Level Reviewer: richardsd Date: 26-Jul-2017 10:52:56

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.840	6.840	0.000	93	210675	40.0	
* 2 Naphthalene-d8	136	8.357	8.357	0.000	99	736511	40.0	
* 3 Acenaphthene-d10	164	10.408	10.414	-0.006	97	308150	40.0	
* 4 Phenanthrene-d10	188	11.920	11.920	0.000	95	494896	40.0	
* 5 Chrysene-d12	240	14.314	14.314	0.000	97	415304	40.0	
* 6 Perylene-d12	264	15.874	15.873	0.001	98	376129	40.0	
$ 7 2-Fluorophenol	112	5.248	5.242	0.006	91	186930	28.2	
$ 8 Phenol-d5	99	6.364	6.364	0.000	98	221572	26.5	
$ 9 Nitrobenzene-d5	82	7.486	7.486	0.000	85	169208	33.1	
$ 10 2-Fluorobiphenyl	172	9.618	9.618	0.000	99	375025	32.4	
$ 11 2,4,6-Tribromophenol	330	11.236	11.236	0.000	89	56475	35.6	
$ 12 p-Terphenyl-d14	244	13.331	13.331	0.000	98	330554	39.4	
22 Chlorotoluene N.O.S	1		0.700				ND	
14 o-Anisidine	1		0.700				ND	
13 3-Chloropyridine	1		0.700				ND	
15 5-Ethyl-5-phenyl barbituri	1		0.700				ND	
19 Chlorobenzotrifluoride N.O	1		0.700				ND	
21 N-Methylaniline	1		0.700				ND	
20 2-Chlorotoluene	91		0.700				ND	
16 Lidocaine	1		0.700				ND	
17 4-Chloropyridine	1		0.700				ND	
18 2-Chloropyridine	1		0.700				ND	
23 1,4-Dioxane	88		2.806				ND	
24 N-Nitrosodimethylamine	42		3.282				ND	
25 Pyridine	52		3.378				ND	
26 2-Picoline	93		4.580				ND	
27 N-Nitrosomethylethylamine	88		4.692				ND	
28 Acrylamide	71		5.018				ND	
29 Methyl methanesulfonate	80		5.076				ND	
30 N-Nitrosodiethylamine	102		5.600				ND	
31 Ethyl methanesulfonate	79		5.942				ND	
32 Benzaldehyde	77		6.311				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
33 Phenol	94		6.380				ND	
34 Aniline	93		6.434				ND	
35 Bis(2-chloroethyl)ether	93		6.487				ND	
36 Pentachloroethane	167		6.588				ND	
37 2-Chlorophenol	128		6.594				ND	
38 n-Decane	57		6.631				ND	
39 1,3-Dichlorobenzene	146		6.781				ND	
40 1,4-Dichlorobenzene	146		6.861				ND	
41 Benzyl alcohol	108		6.979				ND	
42 1,2-Dichlorobenzene	146		7.053				ND	
43 2-Methylphenol	108		7.102				ND	
44 2,2'-oxybis[1-chloropropan	45		7.139				ND	
45 Indene	115		7.155				ND	
46 4-Methylphenol	108		7.278				ND	
47 N-Nitrosodi-n-propylamine	70		7.289				ND	
49 Acetophenone	105		7.299				ND	
48 N-Nitrosopyrrolidine	100		7.326				ND	
51 4-Methylbenzenamine	106		7.347				ND	
50 N-Nitrosomorpholine	56		7.368				ND	
52 2-Toluidine	106		7.416				ND	
53 Hexachloroethane	117		7.460				ND	
54 Nitrobenzene	77		7.508				ND	
55 N-Nitrosopiperidine	114		7.748				ND	
56 Isophorone	82		7.785				ND	
58 2-Chloroaniline	127		7.844				ND	
57 2,4-Dichlorotoluene	125		7.871				ND	
59 2-Nitrophenol	139		7.892				ND	
60 2,4-Dimethylphenol	107		7.914				ND	
61 1,3,5-Trichlorobenzene	180		7.988				ND	
65 Tetraethyl lead	237		7.999				ND	
62 Bis(2-chloroethoxy)methane	93		8.015				ND	
64 Benzoic acid	105		8.026				ND	
63 o,o',o''-Triethylphosphoro	198		8.047				ND	
67 2,4-Dichlorophenol	162		8.175				ND	
66 alpha,alpha-Dimethyl phene	58		8.228				ND	
68 1,2,4-Trichlorobenzene	180		8.288				ND	
69 4-Chlorophenol	128		8.346				ND	
71 Alpha-Terpineol	59		8.362				ND	
70 Naphthalene	128		8.384				ND	
304 1,3-Dibromobenzene TIC	236		8.389				ND	
72 4-Chloroaniline	127		8.421				ND	
305 1,4-Dibromobenzene TIC	236		8.437				ND	
73 2,6-Dichlorophenol	162		8.442				ND	
74 Hexachlorobutadiene	225		8.528				ND	
75 Hexachloropropene	213		8.565				ND	
76 Caprolactam	113		8.806				ND	
77 Quinoline	129		8.837				ND	
78 N-Nitrosodi-n-butylamine	84		8.869				ND	
79 p-Phenylene diamine	108		8.896				ND	
80 4-Chloro-3-methylphenol	107		8.977				ND	
81 Safrole, Total	162		9.142				ND	
83 2-Methylnaphthalene	142		9.201				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
82 2,4,5-Trichlorotoluene	159		9.222				ND	
84 Phthalic anhydride	104		9.244				ND	
85 1-Methylnaphthalene	142		9.319				ND	
86 Hexachlorocyclopentadiene	237		9.399				ND	
87 1,2,4,5-Tetrachlorobenzene	216		9.404				ND	
88 Isosafrole Peak 1	162		9.489				ND	
89 2,4,6-Trichlorophenol	196		9.527				ND	
91 2,4,5-Trichlorophenol	196		9.575				ND	
90 2,3-Dichlorobenzenamine	161		9.596				ND	
94 1,1'-Biphenyl	154		9.741				ND	
92 Isosafrole	162		9.756				ND	
93 Isosafrole Peak 2	162		9.756				ND	
95 2-Chloronaphthalene	162		9.778				ND	
96 1,2,3,4 -Tetrachlorobenzen	216		9.810				ND	
98 2-Nitroaniline	65		9.874				ND	
97 1-Chloronaphthalene	162		9.879				ND	
100 Dicyclohexylamine	138		9.986				ND	
99 1,4-Naphthoquinone	158		10.034				ND	
102 Dimethyl phthalate	163		10.067				ND	
101 1,4-Dinitrobenzene	168		10.082				ND	
103 1,3-Dinitrobenzene	168		10.109				ND	
104 2,6-Dinitrotoluene	165		10.141				ND	
105 Acenaphthylene	152		10.259				ND	
106 3-Nitroaniline	138		10.334				ND	
108 Acenaphthene	153		10.446				ND	
107 2,4-Dinitrophenol	184		10.451				ND	
109 4-Nitrophenol	109		10.499				ND	
111 2,4-Dinitrotoluene	165		10.590				ND	
112 Dibenzofuran	168		10.633				ND	
113 Pentachlorobenzene	250		10.664				ND	
110 n,n'-Dimethylaniline	120		10.665				ND	
116 2,3,4,6-Tetrachlorophenol	232		10.761				ND	
114 1-Naphthylamine	143		10.771				ND	
115 2,3,5,6-Tetrachlorophenol	232		10.777				ND	
118 Diethyl phthalate	149		10.830				ND	
119 Hexadecane	57		10.841				ND	
117 2-Naphthylamine	143		10.851				ND	
121 4-Chlorophenyl phenyl ethe	204		10.969				ND	
120 Thionazin	97		10.974				ND	
122 4-Nitroaniline	138		10.985				ND	
123 Fluorene	166		10.996				ND	
126 Tributyl phosphate	99		11.028				ND	
125 4,6-Dinitro-2-methylphenol	198		11.028				ND	
124 N-Nitro-o-toluidine	152		11.044				ND	
128 Diphenylamine	169		11.087				ND	
127 N-Nitrosodiphenylamine	169		11.087				ND	
130 Azobenzene	77		11.135				ND	
129 1,2-Diphenylhydrazine	77		11.135				ND	
131 Sulfotepp	322		11.279				ND	
132 1,3,5-Trinitrobenzene	213		11.391				ND	
134 Diallate Peak 1	43		11.428				ND	
133 Diallate	43		11.428				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
136 Phorate	75		11.434				ND	
135 Phenacetin	108		11.434				ND	
137 4-Bromophenyl phenyl ether	248		11.466				ND	
138 Diallate Peak 2	43		11.519				ND	
142 Simazine	201		11.562				ND	
139 Hexachlorobenzene	284		11.562				ND	
141 Atrazine	200		11.589				ND	
140 Dimethoate	87		11.599				ND	
143 Pentachlorophenol	266		11.739				ND	
144 n-Octadecane	57		11.749				ND	
145 4-Aminobiphenyl	169		11.776				ND	
146 Pronamide	173		11.813				ND	
147 Pentachloronitrobenzene	237		11.818				ND	
148 Disulfoton	88		11.936				ND	
149 Dinoseb	211		11.947				ND	
150 Phenanthrene	178		11.947				ND	
151 Anthracene	178		11.995				ND	
152 Carbazole	167		12.129				ND	
153 Alachlor	160		12.235				ND	
154 Methyl parathion	109		12.288				ND	
155 Di-n-butyl phthalate	149		12.396				ND	
156 2-Methylanthracene	192		12.513				ND	
157 Ethyl Parathion	97		12.630				ND	
159 Anthraquinone	180		12.673				ND	
158 4-Nitroquinoline-1-oxide	190		12.700				ND	
160 Methapyrilene	58		12.737				ND	
161 Isodrin	193		12.967				ND	
162 Fluoranthene	202		13.031				ND	
163 1-Hydroxyanthraquinone	224		13.058				ND	
164 Benzidine	184		13.106				ND	
165 Pyrene	202		13.240				ND	
166 Aramite Peak 1	185		13.330				ND	
168 Aramite Peak 2	185		13.394				ND	
167 Aramite, Total	185		13.394				ND	
170 1,4-Dihydroxyanthraquinone	240		13.475				ND	
169 p-Dimethylamino azobenzene	120		13.506				ND	
171 Chlorobenzilate	139		13.533				ND	
173 Famphur	218		13.688				ND	
174 9-Octadecenamide	72		13.710				ND	
172 Butyl benzyl phthalate	149		13.721				ND	
175 3,3'-Dimethylbenzidine	212		13.806				ND	
176 Kepone	272		13.854				ND	
177 2-Acetylaminofluorene	181		14.041				ND	
178 Bis(2-ethylhexyl) phthalat	149		14.201				ND	
179 3,3'-Dichlorobenzidine	252		14.239				ND	
180 4,4'-Methylene bis(2-chlor	231		14.292				ND	
181 Benzo[a]anthracene	228		14.303				ND	
182 Chrysene	228		14.340				ND	
183 Di-n-octyl phthalate	149		14.789				ND	
184 6-Methylchrysene	242		14.842				ND	
185 Benzo[b]fluoranthene	252		15.403				ND	
187 Benzo[k]fluoranthene	252		15.435				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
186 7,12-Dimethylbenz(a)anthra	256		15.467				ND	
188 Hexachlorophene	196		15.740				ND	
190 Benzo[a]pyrene	252		15.809				ND	
189 Benzo[e]pyrene	252		15.847				ND	
191 3-Methylcholanthrene	252		16.343				ND	
192 Dibenz[a,h]acridine	279		17.161				ND	
193 Dibenz(a,h)anthracene	278		17.433				ND	
194 Indeno[1,2,3-cd]pyrene	276		17.444				ND	
195 Benzo[g,h,i]perylene	276		17.925				ND	
196 Dibenzo[a,e]pyrene	302		22.022				ND	
197 2-Aminopyridine TIC	1		0.000				ND	
232 Benzeneacetonitrile	1		0.700				ND	
198 n,n'-Dimethylacetamide	1		0.700				ND	
221 Pendimethalin	1		0.700				ND	
208 2,4-Toluene diamine	1		0.700				ND	
199 CBF-400	1		0.700				ND	
202 Phenyl ether	1		0.700				ND	
203 CN-500	1		0.700				ND	
204 1-Methylcyclopentanol	1		0.700				ND	
205 Octachlorostyrene	1		0.700				ND	
220 Dibenzo[a,h]pyrene	1		0.700				ND	
201 3-Chlorotoluene	1		0.700				ND	
236 o-Anisidine TIC	1		0.700				ND	
207 3-Chlorobenzotrifluoride	1		0.700				ND	
224 NVF-400	1		0.700				ND	
213 4-Chlorotoluene	91		0.700				ND	
200 Photomirex TIC	1		0.700				ND	
222 7H-Dibenzo[c,g]carbazole	1		0.700				ND	
219 5-Methyl-o-Anisidine TIC	1		0.700				ND	
217 2-Chlorobenzotrifluoride	1		0.700				ND	
218 2,6-Dichlorotoluene	1		0.700				ND	
223 p-Fluoroaniline	1		0.700				ND	
206 Phenylmercaptan	110		0.700				ND	
215 1-Bromopropane	1		0.700				ND	
214 2,6-Dichlorotoluene TIC	1		0.700				ND	
211 1,3-phenylenediamine TIC	1		0.700				ND	
229 Benzophenone	1		0.700				ND	
234 4,4'-Methylene bis(2-chlor	1		0.700				ND	
227 4-tert-Octylphenol	1		0.700				ND	
230 1,4-Dioxane TIC	1		0.700				ND	
233 Tetramethyl lead TIC	1		0.700				ND	
210 Benzeneacetic acid (TIC)	1		0.700				ND	
231 1,2,3-Trimethylbenzene	105		0.700				ND	
228 2,6-Dichloropyridine	1		0.700				ND	
235 5-Methyl-o-Anisidine	1		0.700				ND	
225 alpha,alpha-Dimethyl phene	1		0.700				ND	
226 Dibenz(a,i)pyrene	1		0.700				ND	
240 4-Chloro-3-nitro-alpha,alp	1		0.700				ND	
243 Phenylacetic Acid	1		0.700				ND	
246 2,3-Dichlorophenol	1		0.700				ND	
241 2,4-Dichlorotoluene TIC	1		0.700				ND	
242 4-Chlorobenzotrifluoride	1		0.700				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
216 3-Chlorobenzotrifluoride T	1		0.700				ND	
238 CU-600	1		0.700				ND	
239 2-Chlorobenzotrifluoride T	1		0.700				ND	
212 Dibenz[a,j]acridine	279		0.700				ND	
247 Hexamethyldisiloxane TIC	1		0.700				ND	
209 CBF-500	1		0.700				ND	
237 CAG-800	1		0.700				ND	
244 2,4-Xylidine TIC	1		0.700				ND	
245 Tris(2,3-dibromopropyl)pho	1		0.700				ND	
S 255 EPH Adjustment 1	1		0.700				ND	
S 256 3-Methylphenol	1		0.700				ND	
S 254 Total Cresols	1		0.700				ND	
S 257 3 & 4 Methylphenol	108		0.700				ND	
T 312 Fluorobenzene TIC	96		2.342				ND	
T 317 1-Bromo-2-chloroethane TIC	63		3.207				ND	
T 306 Ethylene Dibromide TIC	107		4.473				ND	
T 307 4-Chlorobenzotrifluoride T	180		5.050				ND	
T 314 1-Bromo-3-fluorobenzene TI	95		5.809				ND	
T 310 4-Bromofluorobenzene TIC	174		5.937				ND	
T 311 1,2-dichloro-4-(trifluorom	214		6.605				ND	
T 313 2-Bromopyridine TIC	78		6.941				ND	
T 308 3-Nitro-4-Chlorobenzotrifl	179		7.978				ND	
T 315 1-Bromo-4-ethylbenzene TIC	169		7.988				ND	
T 316 3-Amino-4-Chlorobenzotrifl	195		8.015				ND	
T 309 3'-Bromoacetophenone TIC	183		9.367				ND	
T 263 2,3,7,8-TCDD	322		10.700				ND	

Reagents:

MB_INTSTD_STK_00036 Amount Added: 20.00 Units: uL Run Reagent

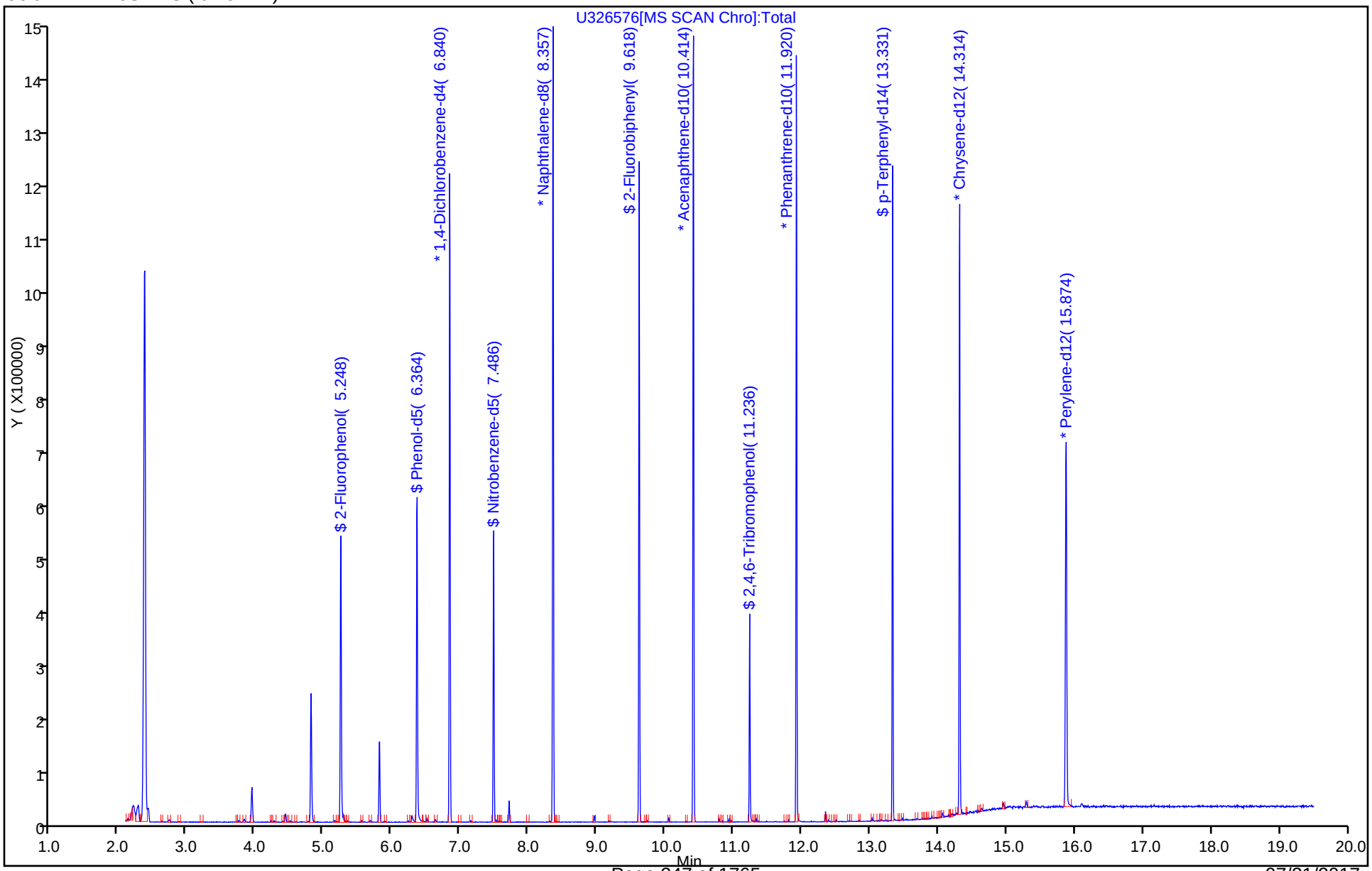
Report Date: 26-Jul-2017 10:57:57 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20170725-64313.b\U326576.D

Injection Date:	25-Jul-2017 17:08:30	Instrument ID:	HP5973U	Operator ID:	DR
Lims ID:	480-121321-A-4-C	Lab Sample ID:	480-121321-4	Worklist Smp#:	11
Client ID:	TP-04				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	U-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.: 480-121321-1

SDG No.:

Client Sample ID: TP-05 | Lab Sample ID: 480-121321-5

Matrix: Solid | Lab File ID: U326581.D

Analysis Method: 8270D | Date Collected: 07/19/2017 14:00

Extract. Method: 3550C | Date Extracted: 07/20/2017 07:46

Sample wt/vol: 30.52(g) | Date Analyzed: 07/25/2017 19:46

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

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

% Moisture: 21.0 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 368598 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	Biphenyl	ND		210	31
108-60-1	bis (2-chloroisopropyl) ether	ND		210	42
95-95-4	2,4,5-Trichlorophenol	ND		210	57
88-06-2	2,4,6-Trichlorophenol	ND		210	42
120-83-2	2,4-Dichlorophenol	ND		210	22
105-67-9	2,4-Dimethylphenol	ND		210	51
51-28-5	2,4-Dinitrophenol	ND		2100	980
121-14-2	2,4-Dinitrotoluene	ND		210	44
606-20-2	2,6-Dinitrotoluene	ND		210	25
91-58-7	2-Chloronaphthalene	ND		210	35
95-57-8	2-Chlorophenol	ND		210	39
91-57-6	2-Methylnaphthalene	ND		210	42
95-48-7	2-Methylphenol	ND		210	25
88-74-4	2-Nitroaniline	ND		410	31
88-75-5	2-Nitrophenol	ND		210	60
91-94-1	3,3'-Dichlorobenzidine	ND		410	250
99-09-2	3-Nitroaniline	ND		410	58
534-52-1	4,6-Dinitro-2-methylphenol	ND		410	210
101-55-3	4-Bromophenyl phenyl ether	ND		210	30
59-50-7	4-Chloro-3-methylphenol	ND		210	52
106-47-8	4-Chloroaniline	ND		210	52
7005-72-3	4-Chlorophenyl phenyl ether	ND		210	26
106-44-5	4-Methylphenol	ND		410	25
100-01-6	4-Nitroaniline	ND		410	110
100-02-7	4-Nitrophenol	ND		410	150
83-32-9	Acenaphthene	ND		210	31
208-96-8	Acenaphthylene	ND		210	27
98-86-2	Acetophenone	ND		210	29
120-12-7	Anthracene	ND		210	52
1912-24-9	Atrazine	ND		210	73
100-52-7	Benzaldehyde	ND		210	170
56-55-3	Benzo(a)anthracene	ND		210	21
50-32-8	Benzo(a)pyrene	ND		210	31
205-99-2	Benzo(b)fluoranthene	ND		210	34

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121321-1

SDG No.:

Client Sample ID: TP-05 | Lab Sample ID: 480-121321-5

Matrix: Solid | Lab File ID: U326581.D

Analysis Method: 8270D | Date Collected: 07/19/2017 14:00

Extract. Method: 3550C | Date Extracted: 07/20/2017 07:46

Sample wt/vol: 30.52(g) | Date Analyzed: 07/25/2017 19:46

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

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

% Moisture: 21.0 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 368598 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
191-24-2	Benzo(g,h,i)perylene	ND		210	22
207-08-9	Benzo(k)fluoranthene	ND		210	27
111-91-1	Bis(2-chloroethoxy)methane	ND		210	45
111-44-4	Bis(2-chloroethyl)ether	ND		210	27
117-81-7	Bis(2-ethylhexyl) phthalate	ND		210	72
85-68-7	Butyl benzyl phthalate	ND		210	35
105-60-2	Caprolactam	ND		210	63
86-74-8	Carbazole	ND		210	25
218-01-9	Chrysene	ND		210	47
84-74-2	Di-n-butyl phthalate	ND		210	36
117-84-0	Di-n-octyl phthalate	ND		210	25
53-70-3	Dibenz(a,h)anthracene	ND		210	37
132-64-9	Dibenzofuran	ND		210	25
84-66-2	Diethyl phthalate	ND		210	27
131-11-3	Dimethyl phthalate	ND		210	25
206-44-0	Fluoranthene	ND		210	22
86-73-7	Fluorene	ND		210	25
118-74-1	Hexachlorobenzene	ND		210	29
87-68-3	Hexachlorobutadiene	ND		210	31
77-47-4	Hexachlorocyclopentadiene	ND		210	29
67-72-1	Hexachloroethane	ND		210	27
193-39-5	Indeno(1,2,3-cd)pyrene	ND		210	26
78-59-1	Isophorone	ND		210	45
621-64-7	N-Nitrosodi-n-propylamine	ND		210	36
86-30-6	N-Nitrosodiphenylamine	ND		210	170
91-20-3	Naphthalene	ND		210	27
98-95-3	Nitrobenzene	ND		210	24
87-86-5	Pentachlorophenol	ND		410	210
85-01-8	Phenanthrene	ND		210	31
108-95-2	Phenol	ND		210	32
129-00-0	Pyrene	ND		210	25

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121321-1

SDG No.:

Client Sample ID: TP-05 | Lab Sample ID: 480-121321-5

Matrix: Solid | Lab File ID: U326581.D

Analysis Method: 8270D | Date Collected: 07/19/2017 14:00

Extract. Method: 3550C | Date Extracted: 07/20/2017 07:46

Sample wt/vol: 30.52(g) | Date Analyzed: 07/25/2017 19:46

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

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

% Moisture: 21.0 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 368598 | Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol	84		54-120
321-60-8	2-Fluorobiphenyl	76		60-120
367-12-4	2-Fluorophenol	65		52-120
4165-60-0	Nitrobenzene-d5	75		53-120
1718-51-0	p-Terphenyl-d14	87		65-121
4165-62-2	Phenol-d5	62		54-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20170725-64313.b\U326581.D
Lims ID: 480-121321-A-5-A
Client ID: TP-05
Sample Type: Client
Inject. Date: 25-Jul-2017 19:46:30 ALS Bottle#: 15 Worklist Smp#: 15
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 480-0064313-015
Operator ID: DR Instrument ID: HP5973U

Method: \\ChromNA\Buffalo\ChromData\HP5973U\20170725-64313.b\U-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 26-Jul-2017 10:56:34 Calib Date: 21-Jul-2017 22:04:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973U\20170721-64235.b\U326545.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK022

First Level Reviewer: richardsd Date: 26-Jul-2017 10:54:04

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.840	6.840	0.000	93	153696	40.0	
* 2 Naphthalene-d8	136	8.352	8.357	-0.005	99	531933	40.0	
* 3 Acenaphthene-d10	164	10.408	10.414	-0.006	97	234775	40.0	
* 4 Phenanthrene-d10	188	11.920	11.920	0.000	95	423060	40.0	
* 5 Chrysene-d12	240	14.313	14.314	-0.001	97	453671	40.0	
* 6 Perylene-d12	264	15.873	15.873	0.000	97	466730	40.0	
$ 7 2-Fluorophenol	112	5.242	5.242	0.000	91	126282	26.1	
$ 8 Phenol-d5	99	6.359	6.364	-0.005	98	151792	24.9	
$ 9 Nitrobenzene-d5	82	7.486	7.486	0.000	85	109631	30.0	
$ 10 2-Fluorobiphenyl	172	9.618	9.618	0.000	99	267207	30.3	
$ 11 2,4,6-Tribromophenol	330	11.236	11.236	0.000	89	45271	33.6	
$ 12 p-Terphenyl-d14	244	13.331	13.331	-0.001	100	318168	34.7	
32 Benzaldehyde	77		6.311				ND	
33 Phenol	94		6.380				ND	
35 Bis(2-chloroethyl)ether	93		6.487				ND	
37 2-Chlorophenol	128		6.594				ND	
43 2-Methylphenol	108		7.102				ND	
44 2,2'-oxybis[1-chloropropan	45		7.139				ND	
46 4-Methylphenol	108		7.278				ND	
47 N-Nitrosodi-n-propylamine	70		7.289				ND	
49 Acetophenone	105		7.299				ND	
53 Hexachloroethane	117		7.460				ND	
54 Nitrobenzene	77		7.508				ND	
56 Isophorone	82		7.785				ND	
59 2-Nitrophenol	139		7.892				ND	
60 2,4-Dimethylphenol	107		7.914				ND	
62 Bis(2-chloroethoxy)methane	93		8.015				ND	
67 2,4-Dichlorophenol	162		8.175				ND	
70 Naphthalene	128		8.384				ND	
72 4-Chloroaniline	127		8.421				ND	
74 Hexachlorobutadiene	225		8.528				ND	
76 Caprolactam	113		8.806				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
80 4-Chloro-3-methylphenol	107		8.977				ND	
83 2-Methylnaphthalene	142		9.201				ND	
86 Hexachlorocyclopentadiene	237		9.399				ND	
89 2,4,6-Trichlorophenol	196		9.527				ND	
91 2,4,5-Trichlorophenol	196		9.575				ND	
94 1,1'-Biphenyl	154		9.741				ND	
95 2-Chloronaphthalene	162		9.778				ND	
98 2-Nitroaniline	65		9.874				ND	
102 Dimethyl phthalate	163		10.067				ND	
104 2,6-Dinitrotoluene	165		10.141				ND	
105 Acenaphthylene	152		10.259				ND	
106 3-Nitroaniline	138		10.334				ND	
108 Acenaphthene	153		10.446				ND	
107 2,4-Dinitrophenol	184		10.451				ND	
109 4-Nitrophenol	109		10.499				ND	
111 2,4-Dinitrotoluene	165		10.590				ND	
112 Dibenzofuran	168		10.633				ND	
118 Diethyl phthalate	149		10.830				ND	
121 4-Chlorophenyl phenyl ethe	204		10.969				ND	
122 4-Nitroaniline	138		10.985				ND	
123 Fluorene	166		10.996				ND	
125 4,6-Dinitro-2-methylphenol	198		11.028				ND	
127 N-Nitrosodiphenylamine	169		11.087				ND	
137 4-Bromophenyl phenyl ether	248		11.466				ND	
139 Hexachlorobenzene	284		11.562				ND	
141 Atrazine	200		11.589				ND	
143 Pentachlorophenol	266		11.739				ND	
150 Phenanthrene	178		11.947				ND	
151 Anthracene	178		11.995				ND	
152 Carbazole	167		12.129				ND	
155 Di-n-butyl phthalate	149		12.396				ND	
162 Fluoranthene	202		13.031				ND	
165 Pyrene	202		13.240				ND	
172 Butyl benzyl phthalate	149		13.721				ND	
178 Bis(2-ethylhexyl) phthalat	149		14.201				ND	
179 3,3'-Dichlorobenzidine	252		14.239				ND	
181 Benzo[a]anthracene	228		14.303				ND	
182 Chrysene	228		14.340				ND	
183 Di-n-octyl phthalate	149		14.789				ND	
185 Benzo[b]fluoranthene	252		15.403				ND	
187 Benzo[k]fluoranthene	252		15.435				ND	
190 Benzo[a]pyrene	252		15.809				ND	
193 Dibenz(a,h)anthracene	278		17.433				ND	
194 Indeno[1,2,3-cd]pyrene	276		17.444				ND	
195 Benzo[g,h,i]perylene	276		17.925				ND	

Reagents:

MB_INTSTD_STK_00036 Amount Added: 20.00 Units: uL Run Reagent

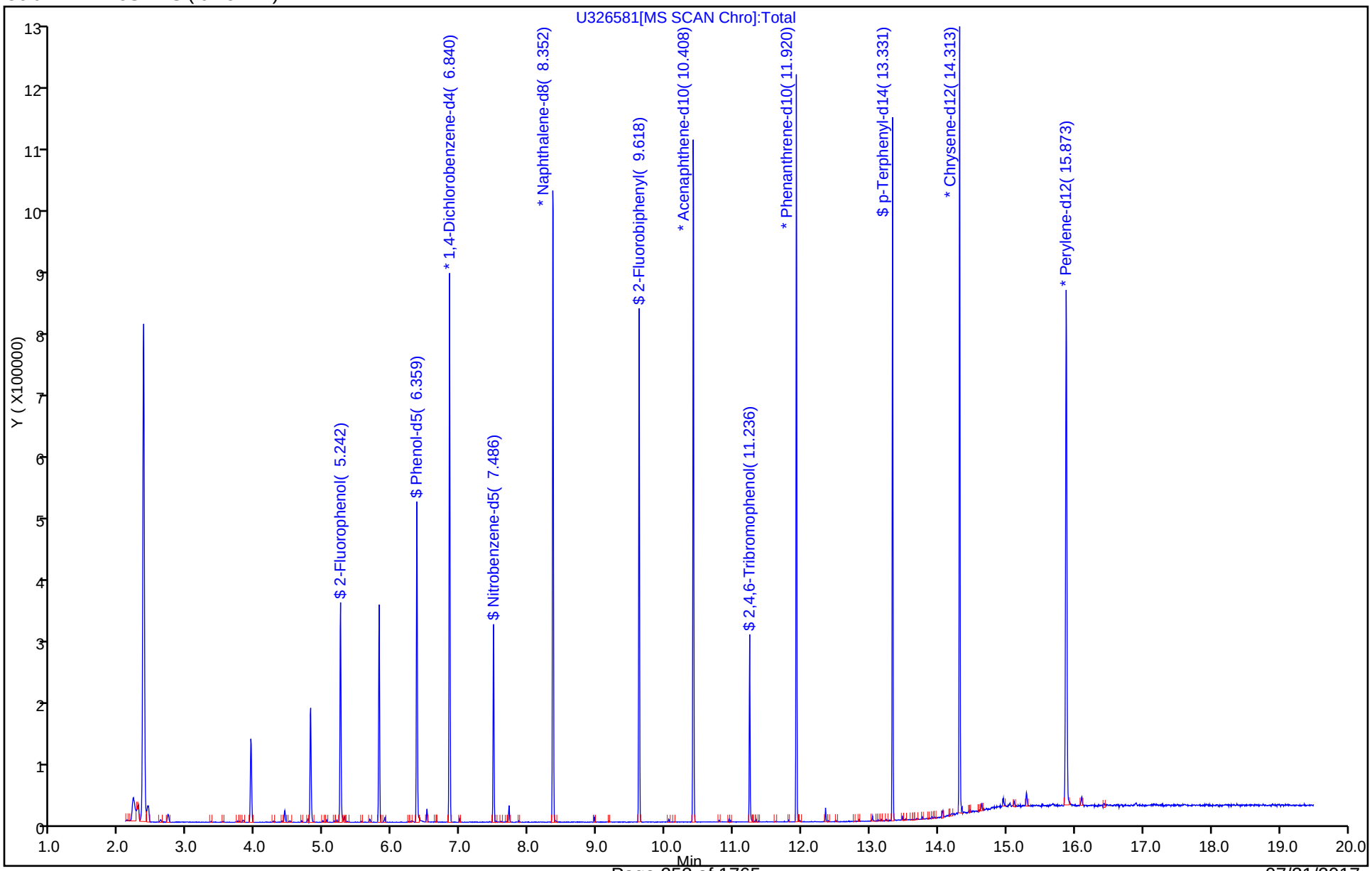
Report Date: 26-Jul-2017 10:58:01 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20170725-64313.b\U326581.D

Injection Date:	25-Jul-2017 19:46:30	Instrument ID:	HP5973U	Operator ID:	DR
Lims ID:	480-121321-A-5-A	Lab Sample ID:	480-121321-5	Worklist Smp#:	15
Client ID:	TP-05				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	15
Method:	U-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.: 480-121321-1

SDG No.:

Client Sample ID: DUP | Lab Sample ID: 480-121321-6

Matrix: Solid | Lab File ID: U326582.D

Analysis Method: 8270D | Date Collected: 07/19/2017 00:00

Extract. Method: 3550C | Date Extracted: 07/20/2017 07:46

Sample wt/vol: 30.29(g) | Date Analyzed: 07/25/2017 20:12

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

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

% Moisture: 17.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 368598 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	Biphenyl	ND		200	30
108-60-1	bis (2-chloroisopropyl) ether	ND		200	41
95-95-4	2,4,5-Trichlorophenol	ND		200	55
88-06-2	2,4,6-Trichlorophenol	ND		200	41
120-83-2	2,4-Dichlorophenol	ND		200	22
105-67-9	2,4-Dimethylphenol	ND		200	49
51-28-5	2,4-Dinitrophenol	ND		2000	940
121-14-2	2,4-Dinitrotoluene	ND		200	42
606-20-2	2,6-Dinitrotoluene	ND		200	24
91-58-7	2-Chloronaphthalene	ND		200	34
95-57-8	2-Chlorophenol	ND		200	37
91-57-6	2-Methylnaphthalene	ND		200	41
95-48-7	2-Methylphenol	ND		200	24
88-74-4	2-Nitroaniline	ND		400	30
88-75-5	2-Nitrophenol	ND		200	58
91-94-1	3,3'-Dichlorobenzidine	ND		400	240
99-09-2	3-Nitroaniline	ND		400	57
534-52-1	4,6-Dinitro-2-methylphenol	ND		400	200
101-55-3	4-Bromophenyl phenyl ether	ND		200	29
59-50-7	4-Chloro-3-methylphenol	ND		200	50
106-47-8	4-Chloroaniline	ND		200	50
7005-72-3	4-Chlorophenyl phenyl ether	ND		200	25
106-44-5	4-Methylphenol	ND		400	24
100-01-6	4-Nitroaniline	ND		400	110
100-02-7	4-Nitrophenol	ND		400	140
83-32-9	Acenaphthene	ND		200	30
208-96-8	Acenaphthylene	ND		200	26
98-86-2	Acetophenone	ND		200	28
120-12-7	Anthracene	ND		200	50
1912-24-9	Atrazine	ND		200	71
100-52-7	Benzaldehyde	ND		200	160
56-55-3	Benzo(a)anthracene	ND		200	20
50-32-8	Benzo(a)pyrene	ND		200	30
205-99-2	Benzo(b)fluoranthene	ND		200	32

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121321-1

SDG No.:

Client Sample ID: DUP | Lab Sample ID: 480-121321-6

Matrix: Solid | Lab File ID: U326582.D

Analysis Method: 8270D | Date Collected: 07/19/2017 00:00

Extract. Method: 3550C | Date Extracted: 07/20/2017 07:46

Sample wt/vol: 30.29(g) | Date Analyzed: 07/25/2017 20:12

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

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

% Moisture: 17.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 368598 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
191-24-2	Benzo(g,h,i)perylene	ND		200	22
207-08-9	Benzo(k)fluoranthene	ND		200	26
111-91-1	Bis(2-chloroethoxy)methane	ND		200	43
111-44-4	Bis(2-chloroethyl)ether	ND		200	26
117-81-7	Bis(2-ethylhexyl) phthalate	ND		200	70
85-68-7	Butyl benzyl phthalate	ND		200	34
105-60-2	Caprolactam	ND		200	61
86-74-8	Carbazole	ND		200	24
218-01-9	Chrysene	ND		200	46
84-74-2	Di-n-butyl phthalate	ND		200	35
117-84-0	Di-n-octyl phthalate	ND		200	24
53-70-3	Dibenz(a,h)anthracene	ND		200	36
132-64-9	Dibenzofuran	ND		200	24
84-66-2	Diethyl phthalate	ND		200	26
131-11-3	Dimethyl phthalate	ND		200	24
206-44-0	Fluoranthene	ND		200	22
86-73-7	Fluorene	ND		200	24
118-74-1	Hexachlorobenzene	ND		200	28
87-68-3	Hexachlorobutadiene	ND		200	30
77-47-4	Hexachlorocyclopentadiene	ND		200	28
67-72-1	Hexachloroethane	ND		200	26
193-39-5	Indeno(1,2,3-cd)pyrene	ND		200	25
78-59-1	Isophorone	ND		200	43
621-64-7	N-Nitrosodi-n-propylamine	ND		200	35
86-30-6	N-Nitrosodiphenylamine	ND		200	170
91-20-3	Naphthalene	ND		200	26
98-95-3	Nitrobenzene	ND		200	23
87-86-5	Pentachlorophenol	ND		400	200
85-01-8	Phenanthrene	ND		200	30
108-95-2	Phenol	ND		200	31
129-00-0	Pyrene	ND		200	24

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121321-1

SDG No.:

Client Sample ID: DUP | Lab Sample ID: 480-121321-6

Matrix: Solid | Lab File ID: U326582.D

Analysis Method: 8270D | Date Collected: 07/19/2017 00:00

Extract. Method: 3550C | Date Extracted: 07/20/2017 07:46

Sample wt/vol: 30.29(g) | Date Analyzed: 07/25/2017 20:12

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

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

% Moisture: 17.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 368598 | Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol	88		54-120
321-60-8	2-Fluorobiphenyl	78		60-120
367-12-4	2-Fluorophenol	67		52-120
4165-60-0	Nitrobenzene-d5	78		53-120
1718-51-0	p-Terphenyl-d14	94		65-121
4165-62-2	Phenol-d5	63		54-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20170725-64313.b\U326582.D
Lims ID: 480-121321-A-6-A
Client ID: DUP
Sample Type: Client
Inject. Date: 25-Jul-2017 20:12:30 ALS Bottle#: 16 Worklist Smp#: 16
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 480-0064313-016
Operator ID: DR Instrument ID: HP5973U

Method: \\ChromNA\Buffalo\ChromData\HP5973U\20170725-64313.b\U-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 26-Jul-2017 10:56:34 Calib Date: 21-Jul-2017 22:04:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973U\20170721-64235.b\U326545.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK022

First Level Reviewer: richardsd Date: 26-Jul-2017 10:54:17

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.840	6.840	0.000	93	177755	40.0	
* 2 Naphthalene-d8	136	8.357	8.357	0.000	99	613778	40.0	
* 3 Acenaphthene-d10	164	10.408	10.414	-0.006	97	262718	40.0	
* 4 Phenanthrene-d10	188	11.920	11.920	0.000	95	446149	40.0	
* 5 Chrysene-d12	240	14.313	14.314	-0.001	97	426621	40.0	
* 6 Perylene-d12	264	15.873	15.873	0.000	97	414138	40.0	
$ 7 2-Fluorophenol	112	5.242	5.242	0.000	91	150010	26.9	
$ 8 Phenol-d5	99	6.359	6.364	-0.005	98	177024	25.1	
$ 9 Nitrobenzene-d5	82	7.486	7.486	0.000	85	132071	31.2	
$ 10 2-Fluorobiphenyl	172	9.618	9.618	0.000	99	309926	31.4	
$ 11 2,4,6-Tribromophenol	330	11.236	11.236	0.000	90	50142	35.1	
$ 12 p-Terphenyl-d14	244	13.330	13.331	-0.001	100	324288	37.6	
32 Benzaldehyde	77		6.311				ND	
33 Phenol	94		6.380				ND	
35 Bis(2-chloroethyl)ether	93		6.487				ND	
37 2-Chlorophenol	128		6.594				ND	
43 2-Methylphenol	108		7.102				ND	
44 2,2'-oxybis[1-chloropropan	45		7.139				ND	
46 4-Methylphenol	108		7.278				ND	
47 N-Nitrosodi-n-propylamine	70		7.289				ND	
49 Acetophenone	105		7.299				ND	
53 Hexachloroethane	117		7.460				ND	
54 Nitrobenzene	77		7.508				ND	
56 Isophorone	82		7.785				ND	
59 2-Nitrophenol	139		7.892				ND	
60 2,4-Dimethylphenol	107		7.914				ND	
62 Bis(2-chloroethoxy)methane	93		8.015				ND	
67 2,4-Dichlorophenol	162		8.175				ND	
70 Naphthalene	128		8.384				ND	
72 4-Chloroaniline	127		8.421				ND	
74 Hexachlorobutadiene	225		8.528				ND	
76 Caprolactam	113		8.806				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
80 4-Chloro-3-methylphenol	107		8.977				ND	
83 2-Methylnaphthalene	142		9.201				ND	
86 Hexachlorocyclopentadiene	237		9.399				ND	
89 2,4,6-Trichlorophenol	196		9.527				ND	
91 2,4,5-Trichlorophenol	196		9.575				ND	
94 1,1'-Biphenyl	154		9.741				ND	
95 2-Chloronaphthalene	162		9.778				ND	
98 2-Nitroaniline	65		9.874				ND	
102 Dimethyl phthalate	163		10.067				ND	
104 2,6-Dinitrotoluene	165		10.141				ND	
105 Acenaphthylene	152		10.259				ND	
106 3-Nitroaniline	138		10.334				ND	
108 Acenaphthene	153		10.446				ND	
107 2,4-Dinitrophenol	184		10.451				ND	
109 4-Nitrophenol	109		10.499				ND	
111 2,4-Dinitrotoluene	165		10.590				ND	
112 Dibenzofuran	168		10.633				ND	
118 Diethyl phthalate	149		10.830				ND	
121 4-Chlorophenyl phenyl ethe	204		10.969				ND	
122 4-Nitroaniline	138		10.985				ND	
123 Fluorene	166		10.996				ND	
125 4,6-Dinitro-2-methylphenol	198		11.028				ND	
127 N-Nitrosodiphenylamine	169		11.087				ND	
137 4-Bromophenyl phenyl ether	248		11.466				ND	
139 Hexachlorobenzene	284		11.562				ND	
141 Atrazine	200		11.589				ND	
143 Pentachlorophenol	266		11.739				ND	
150 Phenanthrene	178		11.947				ND	
151 Anthracene	178		11.995				ND	
152 Carbazole	167		12.129				ND	
155 Di-n-butyl phthalate	149		12.396				ND	
162 Fluoranthene	202		13.031				ND	
165 Pyrene	202		13.240				ND	
172 Butyl benzyl phthalate	149		13.721				ND	
178 Bis(2-ethylhexyl) phthalat	149		14.201				ND	
179 3,3'-Dichlorobenzidine	252		14.239				ND	
181 Benzo[a]anthracene	228		14.303				ND	
182 Chrysene	228		14.340				ND	
183 Di-n-octyl phthalate	149		14.789				ND	
185 Benzo[b]fluoranthene	252		15.403				ND	
187 Benzo[k]fluoranthene	252		15.435				ND	
190 Benzo[a]pyrene	252		15.809				ND	
193 Dibenz(a,h)anthracene	278		17.433				ND	
194 Indeno[1,2,3-cd]pyrene	276		17.444				ND	
195 Benzo[g,h,i]perylene	276		17.925				ND	

Reagents:

MB_INTSTD_STK_00036 Amount Added: 20.00 Units: uL Run Reagent

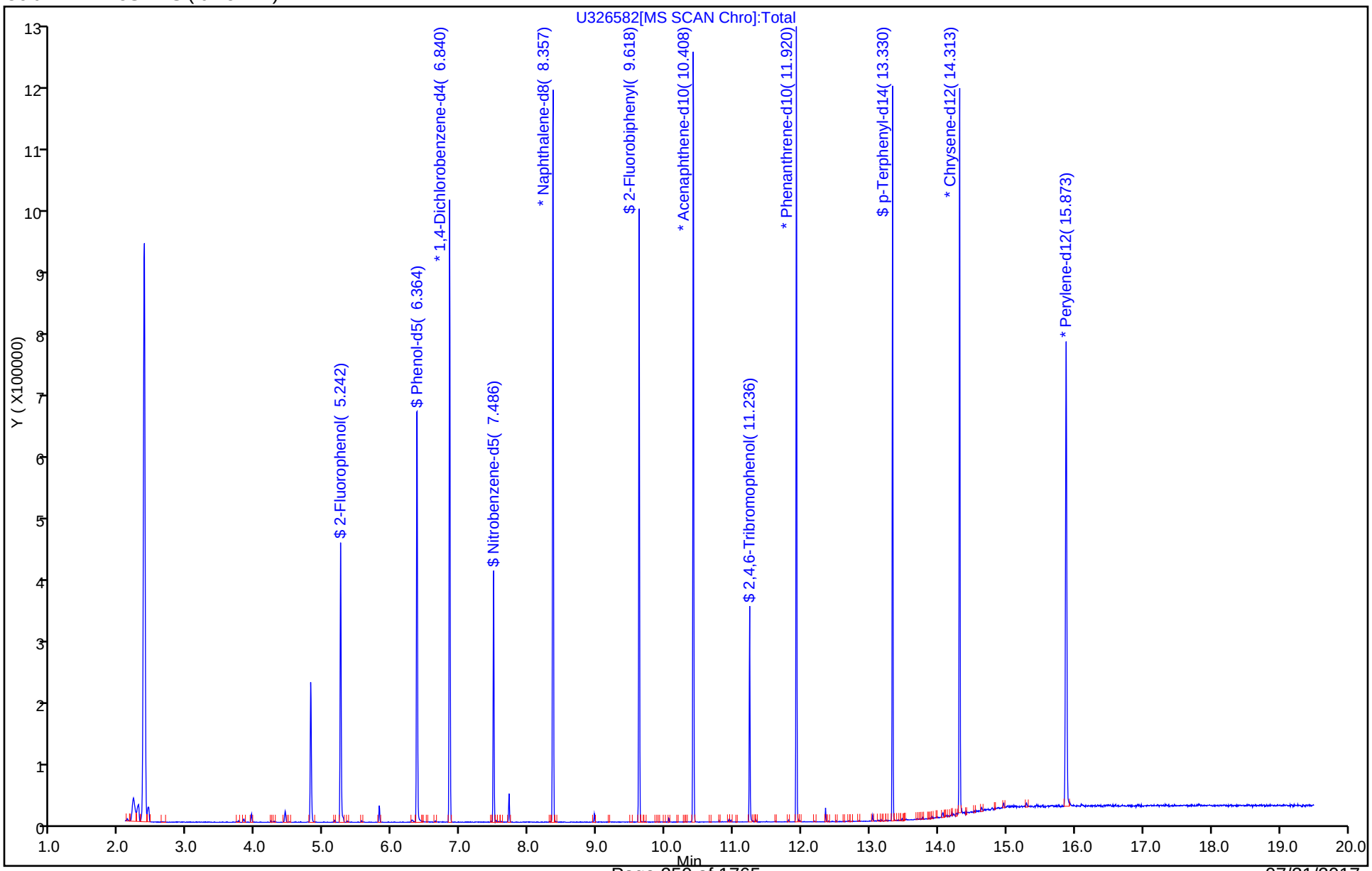
Report Date: 26-Jul-2017 10:58:02 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20170725-64313.b\U326582.D

Injection Date:	25-Jul-2017 20:12:30	Instrument ID:	HP5973U	Operator ID:	DR
Lims ID:	480-121321-A-6-A	Lab Sample ID:	480-121321-6	Worklist Smp#:	16
Client ID:	DUP				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	U-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



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

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1 Analy Batch No.: 368115

SDG No.:

Instrument ID: HP5973U GC Column: RXI-5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/21/2017 12:19 Calibration End Date: 07/21/2017 14:32 Calibration ID: 30931

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-368115/3	U326523.D
Level 2	IC 480-368115/4	U326524.D
Level 3	ICIS 480-368115/5	U326525.D
Level 4	IC 480-368115/6	U326526.D
Level 5	IC 480-368115/7	U326527.D
Level 6	IC 480-368115/8	U326528.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	0.6490 0.5956	0.6473	0.6110	0.6216	0.6093	Ave		0.6223				3.5		20.0			
N-Nitrosodimethylamine	0.7010 0.6502	0.7123	0.6797	0.6954	0.6769	Ave		0.6859				3.2		20.0			
Pyridine	1.2713 1.1988	1.3266	1.2450	1.2791	1.2444	Ave		1.2609				3.4		20.0			
Benzaldehyde	1.1032 +++++	1.1008	0.9089	0.7981	0.6979	Ave		0.9218			0.0100	19.6		20.0			
Phenol	1.4974 1.5824	1.6176	1.5879	1.6408	1.6467	Ave		1.5955			0.8000	3.4		20.0			
Aniline	2.0727 1.9858	2.1152	2.0254	2.0768	2.0657	Ave		2.0569				2.2		20.0			
Bis(2-chloroethyl)ether	1.3820 1.2708	1.3942	1.3092	1.3442	1.3142	Ave		1.3358			0.7000	3.5		20.0			
2-Chlorophenol	1.2388 1.3428	1.3054	1.3176	1.3768	1.3823	Ave		1.3273			0.8000	4.0		20.0			
n-Decane	1.8771 1.5657	1.7858	1.6893	1.6886	1.6287	Ave		1.7059			0.0100	6.5		20.0			
1,3-Dichlorobenzene	1.5515 1.4788	1.5588	1.4766	1.5347	1.5444	Ave		1.5241				2.4		20.0			
1,4-Dichlorobenzene	1.6075 1.5231	1.5861	1.5098	1.5637	1.5635	Ave		1.5589				2.4		20.0			
Benzyl alcohol	0.6436 0.8448	0.8011	0.8380	0.8852	0.8795	Lin1	-1.212	0.8761							0.9990		0.9900
1,2-Dichlorobenzene	1.4648 1.4032	1.4857	1.4218	1.4672	1.4642	Ave		1.4512				2.2		20.0			
2-Methylphenol	1.1080 1.1747	1.1808	1.1809	1.2168	1.2211	Ave		1.1804			0.7000	3.4		20.0			
bis (2-chloroisopropyl) ether	2.1575 1.8091	2.1727	1.9890	1.9855	1.9243	Ave		2.0063			0.0100	6.9		20.0			

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

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

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1 Analy Batch No.: 368115

SDG No.:

Instrument ID: HP5973U GC Column: RXI-5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/21/2017 12:19 Calibration End Date: 07/21/2017 14:32 Calibration ID: 30931

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								
Indene	2.5487 2.0995	2.4987	2.2873	2.2708	2.2057	Ave		2.3184				7.5		20.0			
4-Methylphenol	1.0867 1.2422	1.2316	1.2291	1.2702	1.2934	Ave		1.2255			0.6000	5.9		20.0			
N-Nitrosodi-n-propylamine	0.8784 0.9277	0.9528	0.9392	0.9741	0.9547	Ave		0.9378			0.5000	3.5		20.0			
Acetophenone	1.7881 1.7117	1.8612	1.7699	1.8204	1.7984	Ave		1.7916			0.0100	2.8		20.0			
Hexachloroethane	0.5163 0.5315	0.5193	0.5097	0.5413	0.5493	Ave		0.5279			0.3000	2.9		20.0			
Nitrobenzene	0.1733 0.3149	0.2188	0.2622	0.3094	0.3191	Lin1	-1.011	0.3170			0.2000				0.9940		0.9900
Isophorone	0.6048 0.6030	0.6399	0.6214	0.6408	0.6275	Ave		0.6229			0.4000	2.6		20.0			
2-Nitrophenol	0.0588 0.1556	0.0733	0.0985	0.1294	0.1467	Lin1	-0.702	0.1456			0.1000				0.9750	*	0.9900
2,4-Dimethylphenol	0.2865 0.3139	0.3063	0.3139	0.3279	0.3201	Ave		0.3114			0.2000	4.6		20.0			
Bis(2-chloroethoxy)methane	0.3823 0.3637	0.3915	0.3760	0.3862	0.3775	Ave		0.3795			0.3000	2.5		20.0			
Benzoic acid	+++++ 0.1969	0.0751	0.1251	0.1658	0.1849	Lin1	-9.507	0.2135							0.9900		0.9900
2,4-Dichlorophenol	0.2029 0.2760	0.2437	0.2526	0.2802	0.2778	Lin1	-0.469	0.2791			0.2000				0.9990		0.9900
1,2,4-Trichlorobenzene	0.3118 0.3045	0.3043	0.2958	0.3085	0.3065	Ave		0.3052				1.8		20.0			
Naphthalene	1.0437 0.9502	1.0241	0.9803	0.9960	0.9849	Ave		0.9966			0.7000	3.3		20.0			
4-Chloroaniline	0.3947 0.4211	0.4222	0.4178	0.4365	0.4332	Ave		0.4209			0.0100	3.5		20.0			
2,6-Dichlorophenol	0.2082 0.2713	0.2459	0.2525	0.2748	0.2733	Lin1	-0.397	0.2742							0.9990		0.9900
Hexachlorobutadiene	0.1729 0.1745	0.1701	0.1689	0.1770	0.1768	Ave		0.1734			0.0100	2.0		20.0			
Caprolactam	0.0543 0.1061	0.0845	0.0959	0.1068	0.1078	Lin1	-0.320	0.1086			0.0100				0.9980		0.9900
4-Chloro-3-methylphenol	0.1946 0.2716	0.2411	0.2590	0.2788	0.2750	Lin1	-0.479	0.2774			0.2000				0.9990		0.9900
2-Methylnaphthalene	0.6722 0.6576	0.6811	0.6608	0.6858	0.6768	Ave		0.6724			0.4000	1.7		20.0			

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

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

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1 Analy Batch No.: 368115

SDG No.:

Instrument ID: HP5973U GC Column: RXI-5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/21/2017 12:19 Calibration End Date: 07/21/2017 14:32 Calibration ID: 30931

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-Methylnaphthalene	0.6434 0.6111	0.6380	0.6112	0.6355	0.6202	Ave		0.6266			0.0100	2.3		20.0			
Hexachlorocyclopentadiene	0.1702 0.3936	0.2378	0.2947	0.3557	0.3800	Lin1	-1.526	0.3818			0.0500				0.9900		0.9900
1,2,4,5-Tetrachlorobenzene	0.6225 0.6329	0.6131	0.5980	0.6362	0.6389	Ave		0.6236			0.0100	2.5		20.0			
2,4,6-Trichlorophenol	0.2501 0.4058	0.3324	0.3561	0.3939	0.4045	Lin1	-0.972	0.4058			0.2000				0.9980		0.9900
2,4,5-Trichlorophenol	0.2461 0.4272	0.3634	0.3901	0.4286	0.4329	Lin1	-1.080	0.4355			0.2000				0.9990		0.9900
Biphenyl	1.7506 1.6367	1.7561	1.6277	1.6829	1.6726	Ave		1.6878			0.0100	3.3		20.0			
2-Chloronaphthalene	1.3014 1.2728	1.3191	1.2435	1.3006	1.2741	Ave		1.2853			0.8000	2.1		20.0			
2-Nitroaniline	0.0835 0.3219	0.1369	0.2055	0.2722	0.3049	Lin1	-1.681	0.3051			0.0100				0.9760	*	0.9900
Dimethyl phthalate	1.3550 1.4201	1.4509	1.4101	1.4479	1.4428	Ave		1.4211			0.0100	2.6		20.0			
1,3-Dinitrobenzene	0.0197 0.0920	0.0319	0.0497	0.0698	0.0834	Lin1	-0.510	0.0833							0.9590	*	0.9900
2,6-Dinitrotoluene	0.0824 0.3123	0.1338	0.1938	0.2637	0.2968	Lin1	-1.629	0.2955							0.9750	*	0.9900
Acenaphthylene	1.9459 1.8645	1.9719	1.8680	1.9385	1.9141	Ave		1.9171			0.9000	2.3		20.0			
3-Nitroaniline	0.1046 0.3629	0.1737	0.2444	0.3229	0.3488	Lin1	-1.808	0.3502			0.0100				0.9820	*	0.9900
Acenaphthene	1.3636 1.2770	1.3861	1.3104	1.3318	1.3139	Ave		1.3305			0.9000	3.0		20.0			
2,4-Dinitrophenol	0.0151 0.1362	0.0484	0.0678	0.1005	0.1214	Lin1	-1.620	0.1222			0.0100				0.9550	*	0.9900
4-Nitrophenol	0.0409 0.1658	0.0941	0.1304	0.1607	0.1641	Lin1	-1.643	0.1672			0.0100				0.9920		0.9900
2,4-Dinitrotoluene	0.1038 0.3946	0.1534	0.2377	0.3291	0.3735	Lin1	-2.109	0.3711			0.2000				0.9710	*	0.9900
Dibenzofuran	1.9471 1.7829	1.8803	1.7673	1.8235	1.8200	Ave		1.8368			0.8000	3.6		20.0			
2,3,4,6-Tetrachlorophenol	0.1584 0.3515	0.2346	0.2726	0.3252	0.3432	Lin1	-1.272	0.3447			0.0100				0.9930		0.9900
Diethyl phthalate	1.2653 1.4092	1.3993	1.4024	1.4564	1.4370	Ave		1.3949			0.0100	4.8		20.0			

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

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

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1 Analy Batch No.: 368115

SDG No.:

Instrument ID: HP5973U GC Column: RXI-5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/21/2017 12:19 Calibration End Date: 07/21/2017 14:32 Calibration ID: 30931

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								
Hexadecane	1.0466 0.9178	1.0676	0.9733	0.9762	0.9458	Ave		0.9879			0.0100	5.9		20.0			
4-Chlorophenyl phenyl ether	0.7270 0.7321	0.7520	0.7109	0.7337	0.7426	Ave		0.7330			0.4000	1.9		20.0			
4-Nitroaniline	0.1448 0.4006	0.2438	0.3119	0.3777	0.3921	Lin1	-1.700	0.3970			0.0100				0.9920		0.9900
Fluorene	1.5490 1.4734	1.5591	1.4719	1.5115	1.5075	Ave		1.5121			0.9000	2.4		20.0			
4,6-Dinitro-2-methylphenol	0.0260 0.1046	0.0371	0.0555	0.0812	0.0967	Lin1	-1.140	0.0954			0.0100				0.9580	*	0.9900
Diphenylamine	0.6264 0.6521	0.6631	0.6473	0.6670	0.6654	Ave		0.6535				2.4		20.0			
N-Nitrosodiphenylamine	0.5356 0.5576	0.5669	0.5535	0.5703	0.5689	Ave		0.5588			0.0100	2.4		20.0			
1,2-Diphenylhydrazine	0.7185 0.6794	0.7513	0.7105	0.7150	0.7056	Ave		0.7134				3.3		20.0			
trans-Azobenzene	0.7185 0.6794	0.7513	0.7105	0.7150	0.7056	Ave		0.7134				3.3		20.0			
4-Bromophenyl phenyl ether	0.2220 0.2354	0.2293	0.2267	0.2389	0.2388	Ave		0.2319			0.1000	3.0		20.0			
Hexachlorobenzene	0.2696 0.2743	0.2694	0.2654	0.2761	0.2813	Ave		0.2727			0.1000	2.1		20.0			
Atrazine	0.3028 0.4046	0.3852	0.3882	0.4162	0.4085	Lin1	-0.565	0.4125			0.0100				1.0000		0.9900
n-Octadecane	0.5424 0.4481	0.5410	0.4922	0.4854	0.4696	Ave		0.4964			0.0100	7.7		20.0			
Pentachlorophenol	0.0388 0.1357	0.0813	0.1071	0.1263	0.1345	Lin1	-1.254	0.1354			0.0500				0.9930		0.9900
Phenanthrene	1.1677 1.0476	1.1489	1.0749	1.0899	1.0767	Ave		1.1009			0.7000	4.3		20.0			
Anthracene	1.1945 1.0953	1.1834	1.1338	1.1597	1.1361	Ave		1.1505			0.7000	3.2		20.0			
Carbazole	1.0226 0.9727	1.0695	1.0030	1.0347	1.0098	Ave		1.0187			0.0100	3.2		20.0			
Di-n-butyl phthalate	0.8368 1.1606	1.0732	1.1466	1.2071	1.1887	Lin1	-1.904	1.1976			0.0100				1.0000		0.9900
Fluoranthene	1.2087 1.1522	1.2370	1.1856	1.2164	1.1823	Ave		1.1970			0.6000	2.5		20.0			
Benzidine	0.3873 0.4477	0.5045	0.5057	0.5104	0.4684	Ave		0.4707				10.2		20.0			

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

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

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1 Analy Batch No.: 368115

SDG No.:

Instrument ID: HP5973U GC Column: RXI-5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/21/2017 12:19 Calibration End Date: 07/21/2017 14:32 Calibration ID: 30931

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								
Pyrene	1.0993 1.0086	1.0978	1.0291	1.0428	1.0124	Ave		1.0483			0.6000	3.9		20.0			
Butyl benzyl phthalate	0.1749 0.4368	0.2841	0.3552	0.4146	0.4236	Lin1	-1.694	0.4331			0.0100				0.9950		0.9900
Bis(2-ethylhexyl) phthalate	0.2269 0.6149	0.4046	0.5179	0.5769	0.5832	Lin1	-2.391	0.6073			0.0100				0.9960		0.9900
3,3'-Dichlorobenzidine	0.3198 0.4298	0.3804	0.3954	0.4244	0.4226	Lin1	-0.663	0.4287			0.0100				0.9990		0.9900
Benzo(a)anthracene	1.1464 1.0692	1.1466	1.0855	1.1055	1.0783	Ave		1.1052			0.8000	3.1		20.0			
Chrysene	1.1564 1.0080	1.1120	1.0643	1.0599	1.0342	Ave		1.0725			0.7000	5.0		20.0			
Di-n-octyl phthalate	0.4059 1.0510	0.6400	0.8583	0.9785	0.9952	Lin1	-4.188	1.0314			0.0100				0.9940		0.9900
Benzo(b)fluoranthene	1.1347 1.0834	1.1841	1.0724	1.1600	1.1492	Ave		1.1306			0.7000	3.9		20.0			
Benzo(k)fluoranthene	1.2367 1.1736	1.2412	1.2218	1.2005	1.1764	Ave		1.2084			0.7000	2.4		20.0			
Benzo(a)pyrene	1.0791 1.0736	1.1076	1.0710	1.1098	1.1026	Ave		1.0906			0.7000	1.6		20.0			
Dibenz(a,h)anthracene	1.0980 1.2288	1.1530	1.1451	1.2375	1.2507	Ave		1.1855				5.2		20.0			
Indeno(1,2,3-cd)pyrene	1.3128 1.4541	1.3774	1.3552	1.4743	1.4777	Ave		1.4086			0.5000	4.9		20.0			
Benzo(g,h,i)perylene	1.1020 1.2338	1.1534	1.1370	1.2539	1.2528	Ave		1.1888			0.5000	5.6		20.0			
2-Fluorophenol	1.1478 1.2756	1.2496	1.2553	1.3036	1.3101	Ave		1.2570				4.7		20.0			
Phenol-d5	1.5041 1.5753	1.5828	1.5854	1.6430	1.6283	Ave		1.5865				3.1		20.0			
Nitrobenzene-d5	0.1669 0.3161	0.2067	0.2453	0.2915	0.3138	Lin1	-1.062	0.3100							0.9910		0.9900
2-Fluorobiphenyl	1.5078 1.4849	1.5338	1.4690	1.5132	1.5138	Ave		1.5038				1.5		20.0			
2,4,6-Tribromophenol	0.0603 0.1463	0.0930	0.1158	0.1358	0.1434	Lin1	-0.570	0.1444							0.9930		0.9900
p-Terphenyl-d14	0.8178 0.7916	0.8398	0.7887	0.8225	0.7918	Ave		0.8087				2.6		20.0			

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

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

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1 Analy Batch No.: 368115

SDG No.:

Instrument ID: HP5973U GC Column: RXI-5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/21/2017 12:19 Calibration End Date: 07/21/2017 14:32 Calibration ID: 30931

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-368115/3	U326523.D
Level 2	IC 480-368115/4	U326524.D
Level 3	ICIS 480-368115/5	U326525.D
Level 4	IC 480-368115/6	U326526.D
Level 5	IC 480-368115/7	U326527.D
Level 6	IC 480-368115/8	U326528.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	DCBd 4	Ave	6580 169404	28457	71483	117558	143199	5.00 120	20.0	50.0	80.0	100
N-Nitrosodimethylamine	DCBd 4	Ave	7108 184951	31314	79521	131517	159083	5.00 120	20.0	50.0	80.0	100
Pyridine	DCBd 4	Ave	12890 340977	58321	145652	241900	292457	5.00 120	20.0	50.0	80.0	100
Benzaldehyde	DCBd 4	Ave	11186 +++++	48395	106338	150934	164035	5.00 +++++	20.0	50.0	80.0	100
Phenol	DCBd 4	Ave	15183 450077	71112	185765	310316	387012	5.00 120	20.0	50.0	80.0	100
Aniline	DCBd 4	Ave	21016 564829	92988	236954	392774	485496	5.00 120	20.0	50.0	80.0	100
Bis(2-chloroethyl)ether	DCBd 4	Ave	14012 361451	61290	153167	254219	308871	5.00 120	20.0	50.0	80.0	100
2-Chlorophenol	DCBd 4	Ave	12560 381925	57388	154151	260379	324869	5.00 120	20.0	50.0	80.0	100
n-Decane	DCBd 4	Ave	19032 445331	78509	197632	319353	382786	5.00 120	20.0	50.0	80.0	100
1,3-Dichlorobenzene	DCBd 4	Ave	15731 420631	68526	172751	290237	362985	5.00 120	20.0	50.0	80.0	100
1,4-Dichlorobenzene	DCBd 4	Ave	16299 433210	69728	176637	295726	367461	5.00 120	20.0	50.0	80.0	100
Benzyl alcohol	DCBd 4	Lin1	6526 240278	35219	98037	167414	206716	5.00 120	20.0	50.0	80.0	100
1,2-Dichlorobenzene	DCBd 4	Ave	14852 399120	65314	166341	277483	344136	5.00 120	20.0	50.0	80.0	100
2-Methylphenol	DCBd 4	Ave	11234 334123	51910	138159	230122	286983	5.00 120	20.0	50.0	80.0	100
bis (2-chloroisopropyl) ether	DCBd 4	Ave	21875 514578	95516	232692	375496	452257	5.00 120	20.0	50.0	80.0	100
Indene	DCBd 4	Ave	77525 1791467	329546	802778	1288371	1555169	15.0 360	60.0	150	240	300

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

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1 Analy Batch No.: 368115

SDG No.:

Instrument ID: HP5973U GC Column: RXI-5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/21/2017 12:19 Calibration End Date: 07/21/2017 14:32 Calibration ID: 30931

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
4-Methylphenol	DCBd 4	Ave	11018 353311	54145	143798	240228	303988	5.00 120	20.0	50.0	80.0	100
N-Nitrosodi-n-propylamine	DCBd 4	Ave	8906 263859	41889	109877	184226	224381	5.00 120	20.0	50.0	80.0	100
Acetophenone	DCBd 4	Ave	18130 486868	81822	207068	344275	422677	5.00 120	20.0	50.0	80.0	100
Hexachloroethane	DCBd 4	Ave	5235 151173	22828	59625	102368	129099	5.00 120	20.0	50.0	80.0	100
Nitrobenzene	NPT	Lin1	6701 344265	37627	119399	226011	291825	5.00 120	20.0	50.0	80.0	100
Isophorone	NPT	Ave	23381 659246	110037	282952	468134	573860	5.00 120	20.0	50.0	80.0	100
2-Nitrophenol	NPT	Lin1	2274 170090	12611	44873	94560	134204	5.00 120	20.0	50.0	80.0	100
2,4-Dimethylphenol	NPT	Ave	11076 343187	52664	142917	239526	292752	5.00 120	20.0	50.0	80.0	100
Bis(2-chloroethoxy)methane	NPT	Ave	14778 397649	67323	171227	282091	345288	5.00 120	20.0	50.0	80.0	100
Benzoic acid	NPT	Lin1	+++++ 645660	38736	170901	363418	507266	+++++ 360	60.0	150	240	300
2,4-Dichlorophenol	NPT	Lin1	7844 301686	41911	115025	204724	254029	5.00 120	20.0	50.0	80.0	100
1,2,4-Trichlorobenzene	NPT	Ave	12055 332863	52323	134704	225390	280303	5.00 120	20.0	50.0	80.0	100
Naphthalene	NPT	Ave	40351 1038776	176104	446408	727593	900779	5.00 120	20.0	50.0	80.0	100
4-Chloroaniline	NPT	Ave	15259 460304	72604	190270	318833	396177	5.00 120	20.0	50.0	80.0	100
2,6-Dichlorophenol	NPT	Lin1	8048 296610	42283	114994	200744	249965	5.00 120	20.0	50.0	80.0	100
Hexachlorobutadiene	NPT	Ave	6685 190759	29243	76902	129327	161716	5.00 120	20.0	50.0	80.0	100
Caprolactam	NPT	Lin1	2100 116010	14526	43675	78022	98568	5.00 120	20.0	50.0	80.0	100
4-Chloro-3-methylphenol	NPT	Lin1	7524 296951	41462	117935	203660	251473	5.00 120	20.0	50.0	80.0	100
2-Methylnaphthalene	NPT	Ave	25987 718842	117117	300919	501011	619014	5.00 120	20.0	50.0	80.0	100
1-Methylnaphthalene	NPT	Ave	24876 668066	109718	278305	464229	567235	5.00 120	20.0	50.0	80.0	100
Hexachlorocyclopentadiene	ANT	Lin1	3033 203748	19072	64315	124627	166234	5.00 120	20.0	50.0	80.0	100

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

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1 Analy Batch No.: 368115

SDG No.:

Instrument ID: HP5973U GC Column: RXI-5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/21/2017 12:19 Calibration End Date: 07/21/2017 14:32 Calibration ID: 30931

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
1,2,4,5-Tetrachlorobenzene	ANT	Ave	11095 327588	49180	130498	222873	279497	5.00 120	20.0	50.0	80.0	100
2,4,6-Trichlorophenol	ANT	Lin1	4458 210071	26659	77709	137999	176965	5.00 120	20.0	50.0	80.0	100
2,4,5-Trichlorophenol	ANT	Lin1	4387 221127	29150	85117	150161	189382	5.00 120	20.0	50.0	80.0	100
Biphenyl	ANT	Ave	31201 847222	140854	355190	589594	731742	5.00 120	20.0	50.0	80.0	100
2-Chloronaphthalene	ANT	Ave	23196 658857	105806	271341	455663	557402	5.00 120	20.0	50.0	80.0	100
2-Nitroaniline	ANT	Lin1	1488 166634	10983	44850	95357	133384	5.00 120	20.0	50.0	80.0	100
Dimethyl phthalate	ANT	Ave	24150 735100	116374	307704	507277	631214	5.00 120	20.0	50.0	80.0	100
1,3-Dinitrobenzene	NPT	Lin1	762 100545	5478	22620	50994	76302	5.00 120	20.0	50.0	80.0	100
2,6-Dinitrotoluene	ANT	Lin1	1468 161680	10732	42299	92396	129853	5.00 120	20.0	50.0	80.0	100
Acenaphthylene	ANT	Ave	34682 965141	158165	407608	679145	837400	5.00 120	20.0	50.0	80.0	100
3-Nitroaniline	ANT	Lin1	1865 187835	13929	53328	113139	152618	5.00 120	20.0	50.0	80.0	100
Acenaphthene	ANT	Ave	24305 661011	111181	285939	466588	574815	5.00 120	20.0	50.0	80.0	100
2,4-Dinitrophenol	ANT	Lin1	538 141035	7771	29593	70448	106236	10.0 240	40.0	100	160	200
4-Nitrophenol	ANT	Lin1	1457 171647	15095	56926	112612	143585	10.0 240	40.0	100	160	200
2,4-Dinitrotoluene	ANT	Lin1	1850 204274	12302	51860	115297	163428	5.00 120	20.0	50.0	80.0	100
Dibenzofuran	ANT	Ave	34705 922881	150821	385640	638845	796238	5.00 120	20.0	50.0	80.0	100
2,3,4,6-Tetrachlorophenol	ANT	Lin1	2823 181926	18814	59476	113922	150143	5.00 120	20.0	50.0	80.0	100
Diethyl phthalate	ANT	Ave	22552 729432	112241	306030	510246	628692	5.00 120	20.0	50.0	80.0	100
Hexadecane	ANT	Ave	18654 475112	85635	212389	341998	413769	5.00 120	20.0	50.0	80.0	100
4-Chlorophenyl phenyl ether	ANT	Ave	12957 378937	60318	155132	257039	324876	5.00 120	20.0	50.0	80.0	100
4-Nitroaniline	ANT	Lin1	2580 207387	19558	68052	132322	171526	5.00 120	20.0	50.0	80.0	100

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

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1 Analy Batch No.: 368115

SDG No.:

Instrument ID: HP5973U GC Column: RXI-5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/21/2017 12:19 Calibration End Date: 07/21/2017 14:32 Calibration ID: 30931

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
Fluorene	ANT	Ave	27608 762709	125056	321183	529562	659510	5.00 120	20.0	50.0	80.0	100
4,6-Dinitro-2-methylphenol	PHN	Lin1	1827 215768	11789	47572	112640	166931	10.0 240	40.0	100	160	200
Diphenylamine	PHN	Ave	18823 574799	89982	237278	395632	491245	4.28 103	17.1	42.8	68.4	85.5
N-Nitrosodiphenylamine	PHN	Ave	18823 574799	89982	237278	395632	491245	5.00 120	20.0	50.0	80.0	100
1,2-Diphenylhydrazine	PHN	Ave	25254 700352	119252	304628	496028	609258	5.00 120	20.0	50.0	80.0	100
trans-Azobenzene	PHN	Ave	25254 700352	119252	304628	496028	609258	5.00 120	20.0	50.0	80.0	100
4-Bromophenyl phenyl ether	PHN	Ave	7802 242694	36387	97196	165756	206218	5.00 120	20.0	50.0	80.0	100
Hexachlorobenzene	PHN	Ave	9475 282777	42751	113769	191526	242886	5.00 120	20.0	50.0	80.0	100
Atrazine	ANT	Lin1	5397 209417	30896	84700	145811	178706	5.00 120	20.0	50.0	80.0	100
n-Octadecane	PHN	Ave	19063 461920	85866	211004	336771	405481	5.00 120	20.0	50.0	80.0	100
Pentachlorophenol	PHN	Lin1	2730 279840	25810	91854	175198	232200	10.0 240	40.0	100	160	200
Phenanthrene	PHN	Ave	41040 1079987	182354	460846	756114	929729	5.00 120	20.0	50.0	80.0	100
Anthracene	PHN	Ave	41983 1129149	187824	486084	804549	981020	5.00 120	20.0	50.0	80.0	100
Carbazole	PHN	Ave	35940 1002752	169746	430014	717837	871985	5.00 120	20.0	50.0	80.0	100
Di-n-butyl phthalate	PHN	Lin1	29412 1196498	170340	491583	837399	1026448	5.00 120	20.0	50.0	80.0	100
Fluoranthene	PHN	Ave	42483 1187790	196333	508280	843867	1020937	5.00 120	20.0	50.0	80.0	100
Benzidine	CRY	Ave	15954 554507	97362	267441	435030	500595	5.00 120	20.0	50.0	80.0	100
Pyrene	CRY	Ave	45278 1249224	211883	544235	888819	1081874	5.00 120	20.0	50.0	80.0	100
Butyl benzyl phthalate	CRY	Lin1	7205 540958	54828	187829	353370	452653	5.00 120	20.0	50.0	80.0	100
Bis(2-ethylhexyl) phthalate	CRY	Lin1	9345 761598	78085	273866	491734	623287	5.00 120	20.0	50.0	80.0	100
3,3'-Dichlorobenzidine	CRY	Lin1	13171 532406	73425	209100	361728	451612	5.00 120	20.0	50.0	80.0	100

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

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1 Analy Batch No.: 368115

SDG No.:

Instrument ID: HP5973U GC Column: RXI-5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/21/2017 12:19 Calibration End Date: 07/21/2017 14:32 Calibration ID: 30931

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
Benzo(a)anthracene	CRY	Ave	47220 1324261	221305	574052	942238	1152279	5.00 120	20.0	50.0	80.0	100
Chrysene	CRY	Ave	47630 1248480	214626	562829	903351	1105150	5.00 120	20.0	50.0	80.0	100
Di-n-octyl phthalate	CRY	Lin1	16717 1301711	123513	453886	834022	1063504	5.00 120	20.0	50.0	80.0	100
Benzo(b)fluoranthene	PRY	Ave	49159 1472804	238627	590908	1040111	1307099	5.00 120	20.0	50.0	80.0	100
Benzo(k)fluoranthene	PRY	Ave	53578 1595396	250132	673238	1076403	1338050	5.00 120	20.0	50.0	80.0	100
Benzo(a)pyrene	PRY	Ave	46752 1459413	223195	590148	995126	1254094	5.00 120	20.0	50.0	80.0	100
Dibenz(a,h)anthracene	PRY	Ave	47568 1670432	232355	630991	1109592	1422657	5.00 120	20.0	50.0	80.0	100
Indeno(1,2,3-cd)pyrene	PRY	Ave	56875 1976670	277577	746744	1321942	1680850	5.00 120	20.0	50.0	80.0	100
Benzo(g,h,i)perylene	PRY	Ave	47743 1677229	232425	626489	1124334	1424975	5.00 120	20.0	50.0	80.0	100
2-Fluorophenol	DCBd 4	Ave	11638 362818	54934	146861	246545	307908	5.00 120	20.0	50.0	80.0	100
Phenol-d5	DCBd 4	Ave	15250 448077	69581	185475	310731	382695	5.00 120	20.0	50.0	80.0	100
Nitrobenzene-d5	NPT	Lin1	6452 345585	35543	111718	212947	286988	5.00 120	20.0	50.0	80.0	100
2-Fluorobiphenyl	ANT	Ave	26875 768647	123026	320548	530143	662298	5.00 120	20.0	50.0	80.0	100
2,4,6-Tribromophenol	PHN	Lin1	2119 150872	14760	49650	94208	123803	5.00 120	20.0	50.0	80.0	100
p-Terphenyl-d14	CRY	Ave	33686 980459	162082	417087	701037	846186	5.00 120	20.0	50.0	80.0	100

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20170721-64235.b\U326523.D
Lims ID: IC - List1 5
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 21-Jul-2017 12:19:30 ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 480-0064235-003
Operator ID: DR Instrument ID: HP5973U
Sublist: chrom-U-8270*sub56

Method: \\ChromNA\Buffalo\ChromData\HP5973U\20170721-64235.b\U-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 24-Jul-2017 11:19:36 Calib Date: 21-Jul-2017 22:04:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973U\20170721-64235.b\U326545.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK004

First Level Reviewer: richardsd Date: 21-Jul-2017 16:14:59

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	6.915	6.914	0.001	96	81114	40.0	40.0	
* 2 Naphthalene-d8	136	8.426	8.426	0.000	99	309284	40.0	40.0	
* 3 Acenaphthene-d10	164	10.478	10.478	0.000	98	142588	40.0	40.0	
* 4 Phenanthrene-d10	188	11.984	11.984	0.000	95	281172	40.0	40.0	
* 5 Chrysene-d12	240	14.383	14.383	0.000	96	329512	40.0	40.0	
* 6 Perylene-d12	264	15.980	15.980	0.000	97	346590	40.0	40.0	
$ 7 2-Fluorophenol	112	5.328	5.333	-0.005	92	11638	5.00	4.57	
$ 8 Phenol-d5	99	6.434	6.439	-0.005	99	15250	5.00	4.74	
$ 9 Nitrobenzene-d5	82	7.556	7.561	-0.005	88	6452	5.00	6.12	M
$ 10 2-Fluorobiphenyl	172	9.687	9.687	0.000	99	26875	5.00	5.01	
$ 11 2,4,6-Tribromophenol	330	11.301	11.300	0.001	86	2119	5.00	6.04	
$ 12 p-Terphenyl-d14	244	13.389	13.389	0.000	99	33686	5.00	5.06	
23 1,4-Dioxane	88	2.951	2.961	-0.010	96	6580	5.00	5.21	
24 N-Nitrosodimethylamine	42	3.410	3.415	-0.005	94	7108	5.00	5.11	
25 Pyridine	52	3.517	3.517	0.000	94	12890	5.00	5.04	
32 Benzaldehyde	77	6.386	6.386	0.000	93	11186	5.00	5.98	
33 Phenol	94	6.450	6.455	-0.005	98	15183	5.00	4.69	
34 Aniline	93	6.509	6.514	-0.005	97	21016	5.00	5.04	
35 Bis(2-chloroethyl)ether	93	6.562	6.562	0.000	94	14012	5.00	5.17	
37 2-Chlorophenol	128	6.669	6.669	0.000	96	12560	5.00	4.67	
38 n-Decane	57	6.701	6.701	0.000	93	19032	5.00	5.50	
39 1,3-Dichlorobenzene	146	6.856	6.856	0.000	98	15731	5.00	5.09	
40 1,4-Dichlorobenzene	146	6.936	6.936	0.000	93	16299	5.00	5.16	
41 Benzyl alcohol	108	7.048	7.053	-0.005	92	6526	5.00	5.06	
42 1,2-Dichlorobenzene	146	7.123	7.128	-0.005	96	14852	5.00	5.05	
43 2-Methylphenol	108	7.171	7.176	-0.005	95	11234	5.00	4.69	
44 2,2'-oxybis[1-chloropropan	45	7.208	7.208	0.000	95	21875	5.00	5.38	
45 Indene	115	7.224	7.230	-0.006	90	77525	15.0	16.5	
46 4-Methylphenol	108	7.347	7.352	-0.005	95	11018	5.00	4.43	
47 N-Nitrosodi-n-propylamine	70	7.353	7.358	-0.005	91	8906	5.00	4.68	
49 Acetophenone	105	7.369	7.374	-0.005	97	18130	5.00	4.99	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
53 Hexachloroethane	117	7.529	7.534	-0.005	92	5235	5.00	4.89	
54 Nitrobenzene	77	7.582	7.582	0.000	87	6701	5.00	5.92	
56 Isophorone	82	7.855	7.855	0.000	99	23381	5.00	4.85	
59 2-Nitrophenol	139	7.962	7.962	0.000	1	2274	5.00	6.84	
60 2,4-Dimethylphenol	107	7.983	7.983	0.000	91	11076	5.00	4.60	
62 Bis(2-chloroethoxy)methane	93	8.085	8.084	0.001	97	14778	5.00	5.04	
64 Benzoic acid	105	8.036	8.100	-0.064	83	3348	15.0	46.6	
67 2,4-Dichlorophenol	162	8.250	8.250	0.000	91	7844	5.00	5.32	
68 1,2,4-Trichlorobenzene	180	8.357	8.357	0.000	93	12055	5.00	5.11	
70 Naphthalene	128	8.453	8.453	0.000	97	40351	5.00	5.24	
72 4-Chloroaniline	127	8.491	8.490	0.001	96	15259	5.00	4.69	
73 2,6-Dichlorophenol	162	8.512	8.512	0.000	96	8048	5.00	5.24	
74 Hexachlorobutadiene	225	8.597	8.597	0.000	94	6685	5.00	4.99	
76 Caprolactam	113	8.854	8.875	-0.021	1	2100	5.00	5.45	M
80 4-Chloro-3-methylphenol	107	9.051	9.051	0.000	95	7524	5.00	5.24	
83 2-Methylnaphthalene	142	9.271	9.270	0.001	92	25987	5.00	5.00	
85 1-Methylnaphthalene	142	9.388	9.388	0.000	93	24876	5.00	5.13	
86 Hexachlorocyclopentadiene	237	9.463	9.468	-0.005	1	3033	5.00	6.22	
87 1,2,4,5-Tetrachlorobenzene	216	9.474	9.473	0.001	97	11095	5.00	4.99	
89 2,4,6-Trichlorophenol	196	9.596	9.596	0.000	88	4458	5.00	5.48	
91 2,4,5-Trichlorophenol	196	9.644	9.644	0.000	93	4387	5.00	5.30	
94 1,1'-Biphenyl	154	9.810	9.810	0.000	95	31201	5.00	5.19	
95 2-Chloronaphthalene	162	9.847	9.847	0.000	96	23196	5.00	5.06	
98 2-Nitroaniline	65	9.944	9.943	0.001	84	1488	5.00	6.88	
102 Dimethyl phthalate	163	10.125	10.130	-0.005	99	24150	5.00	4.77	
103 1,3-Dinitrobenzene	168	10.173	10.173	0.000	77	762	5.00	7.31	
104 2,6-Dinitrotoluene	165	10.200	10.205	-0.005	78	1468	5.00	6.91	
105 Acenaphthylene	152	10.323	10.323	0.000	98	34682	5.00	5.07	
106 3-Nitroaniline	138	10.398	10.398	0.000	11	1865	5.00	6.66	
107 2,4-Dinitrophenol	184	10.515	10.515	0.000	56	538	10.0	14.5	
108 Acenaphthene	153	10.510	10.515	-0.005	95	24305	5.00	5.12	
109 4-Nitrophenol	109	10.569	10.563	0.006	26	1457	10.0	12.3	
111 2,4-Dinitrotoluene	165	10.649	10.649	0.000	85	1850	5.00	7.08	
112 Dibenzofuran	168	10.692	10.697	-0.005	96	34705	5.00	5.30	
116 2,3,4,6-Tetrachlorophenol	232	10.825	10.825	0.000	65	2823	5.00	5.99	
118 Diethyl phthalate	149	10.884	10.889	-0.005	98	22552	5.00	4.54	
119 Hexadecane	57	10.895	10.900	-0.005	92	18654	5.00	5.30	
121 4-Chlorophenyl phenyl ethe	204	11.033	11.033	0.000	92	12957	5.00	4.96	
122 4-Nitroaniline	138	11.049	11.049	0.000	82	2580	5.00	6.10	
123 Fluorene	166	11.055	11.055	0.000	93	27608	5.00	5.12	
125 4,6-Dinitro-2-methylphenol	198	11.082	11.087	-0.005	90	1827	10.0	14.7	
128 Diphenylamine	169	11.146	11.145	0.001	94	18823	4.28	4.10	
127 N-Nitrosodiphenylamine	169	11.146	11.145	0.001	62	18823	5.00	4.79	
130 Azobenzene	77	11.194	11.194	0.000	98	25254	5.00	5.04	
129 1,2-Diphenylhydrazine	77	11.194	11.194	0.000	99	25254	5.00	5.04	
137 4-Bromophenyl phenyl ether	248	11.525	11.525	0.000	65	7802	5.00	4.79	
139 Hexachlorobenzene	284	11.626	11.626	0.000	95	9475	5.00	4.94	
141 Atrazine	200	11.648	11.648	0.000	89	5397	5.00	5.04	
144 n-Octadecane	57	11.803	11.803	0.000	92	19063	5.00	5.46	
143 Pentachlorophenol	266	11.803	11.803	0.000	82	2730	10.0	12.1	
150 Phenanthrene	178	12.006	12.006	0.000	96	41040	5.00	5.30	
151 Anthracene	178	12.054	12.054	0.000	98	41983	5.00	5.19	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
152 Carbazole	167	12.187	12.187	0.000	97	35940	5.00	5.02	
155 Di-n-butyl phthalate	149	12.449	12.449	0.000	99	29412	5.00	5.08	
162 Fluoranthene	202	13.090	13.095	-0.005	98	42483	5.00	5.05	
164 Benzidine	184	13.170	13.170	0.000	98	15954	5.00	4.11	
165 Pyrene	202	13.304	13.304	0.000	97	45278	5.00	5.24	
172 Butyl benzyl phthalate	149	13.779	13.785	-0.006	96	7205	5.00	5.93	
178 Bis(2-ethylhexyl) phthalat	149	14.260	14.260	0.000	97	9345	5.00	5.81	
179 3,3'-Dichlorobenzidine	252	14.303	14.303	0.000	72	13171	5.00	5.28	
181 Benzo[a]anthracene	228	14.372	14.372	0.000	98	47220	5.00	5.19	
182 Chrysene	228	14.404	14.410	-0.006	97	47630	5.00	5.39	
183 Di-n-octyl phthalate	149	14.859	14.858	0.000	41	16717	5.00	6.03	
185 Benzo[b]fluoranthene	252	15.494	15.499	-0.005	97	49159	5.00	5.02	
187 Benzo[k]fluoranthene	252	15.526	15.526	0.000	98	53578	5.00	5.12	
190 Benzo[a]pyrene	252	15.911	15.911	0.000	78	46752	5.00	4.95	
193 Dibenz(a,h)anthracene	278	17.583	17.583	0.000	87	47568	5.00	4.63	
194 Indeno[1,2,3-cd]pyrene	276	17.588	17.588	0.000	1	56875	5.00	4.66	M
195 Benzo[g,h,i]perylene	276	18.091	18.090	0.001	96	47743	5.00	4.63	
S 254 Total Cresols	1				0			9.13	
S 257 3 & 4 Methylphenol	108				0			4.43	
S 256 3-Methylphenol	1				0			4.43	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

MB_LIST1_WRK_00474	Amount Added: 1.00	Units: mL	
MB_INTSTD_STK_00036	Amount Added: 20.00	Units: uL	Run Reagent

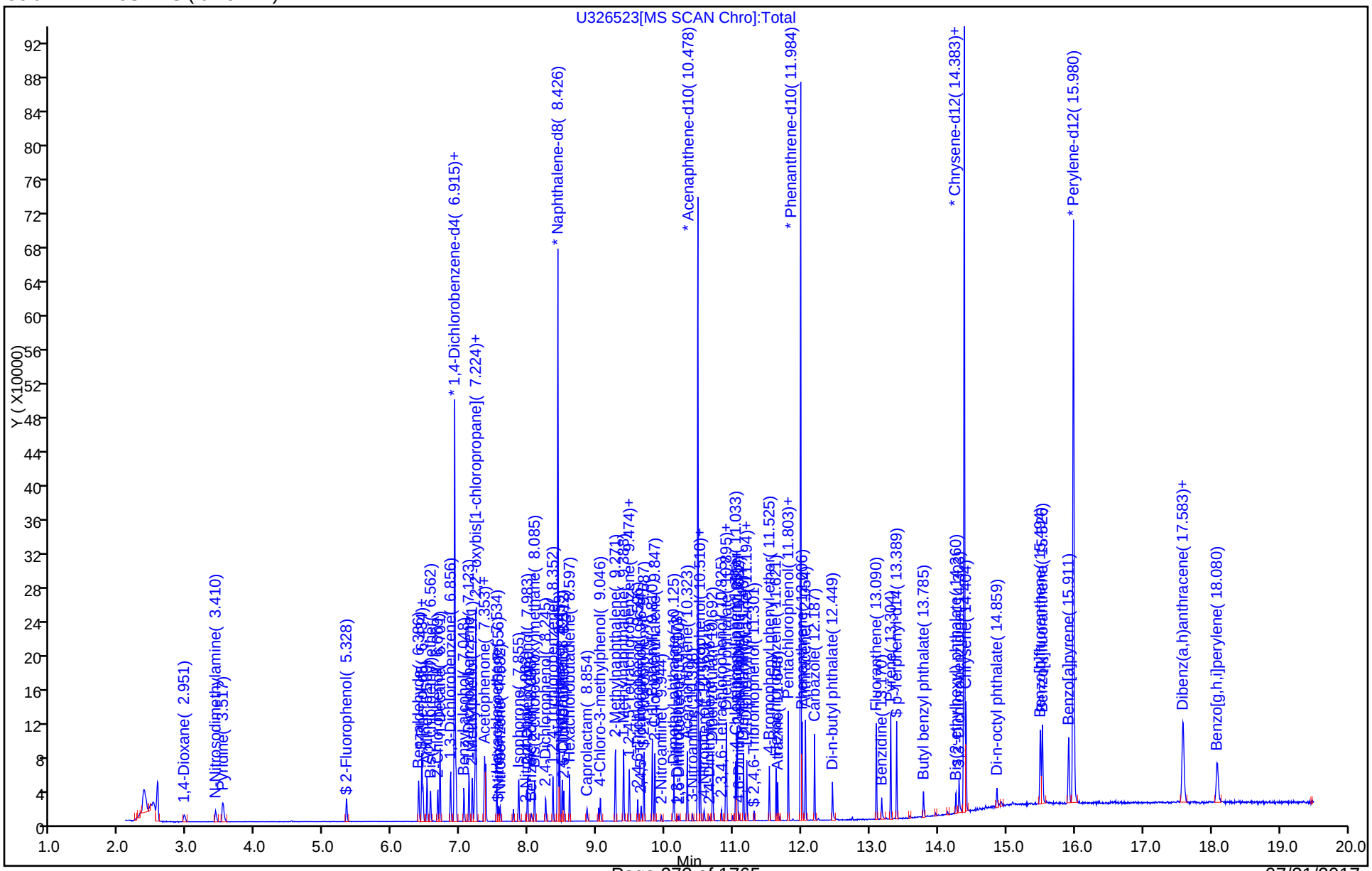
Report Date: 24-Jul-2017 11:19:37 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20170721-64235.b\U326523.D

Injection Date:	21-Jul-2017 12:19:30	Instrument ID:	HP5973U	Operator ID:	DR
Lims ID:	IC - List1 5			Worklist Smp#:	3
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	U-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

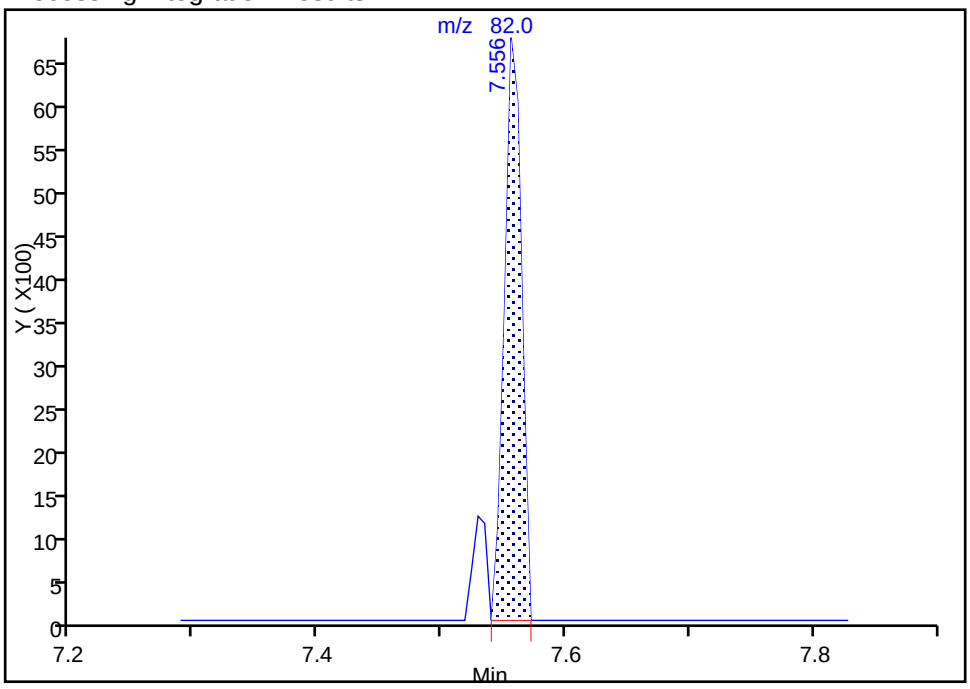
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Injection Date: 21-Jul-2017 12:19:30 Instrument ID: HP5973U
Lims ID: IC - List1 5
Client ID:
Operator ID: DR ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: U-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

$ 9 Nitrobenzene-d5, CAS: 4165-60-0

Signal: 1

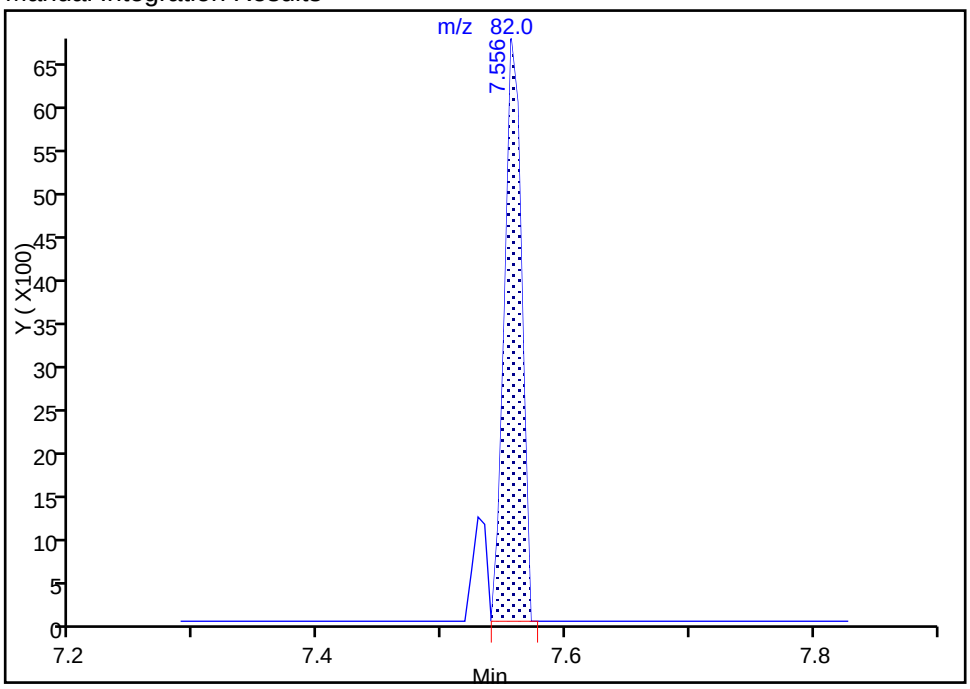
Processing Integration Results

RT: 7.56
Area: 6453
Amount: 5.755573
Amount Units: ng/uL



Manual Integration Results

RT: 7.56
Area: 6452
Amount: 6.118561
Amount Units: ng/uL



Reviewer: richardsd, 24-Jul-2017 09:37:07
Audit Action: Split an Integrated Peak Audit Reason: Peak Tail

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

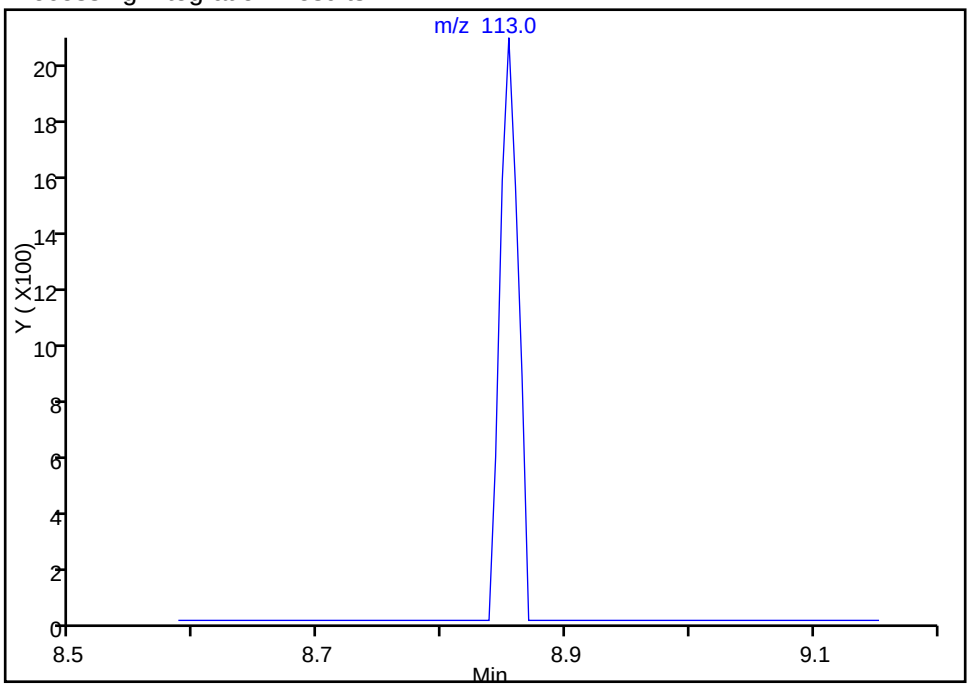
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Injection Date: 21-Jul-2017 12:19:30 Instrument ID: HP5973U
Lims ID: IC - List1 5
Client ID:
Operator ID: DR ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: U-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

76 Caprolactam, CAS: 105-60-2

Signal: 1

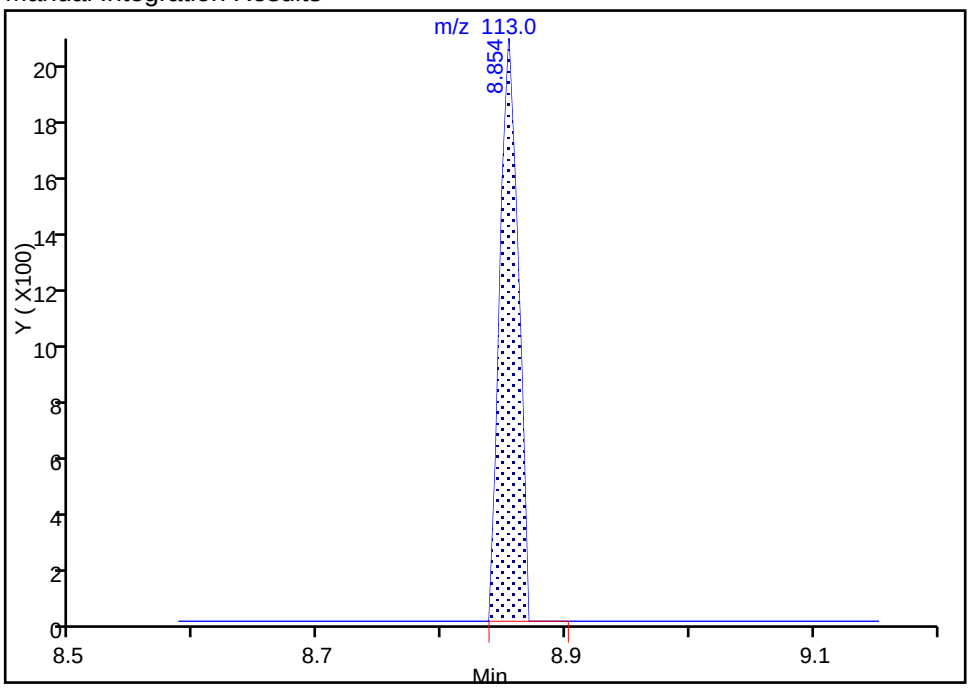
Not Detected
Expected RT: 8.88

Processing Integration Results



Manual Integration Results

RT: 8.85
Area: 2100
Amount: 5.448695
Amount Units: ng/uL



Reviewer: richardsd, 21-Jul-2017 16:14:17
Audit Action: Assigned Compound ID Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

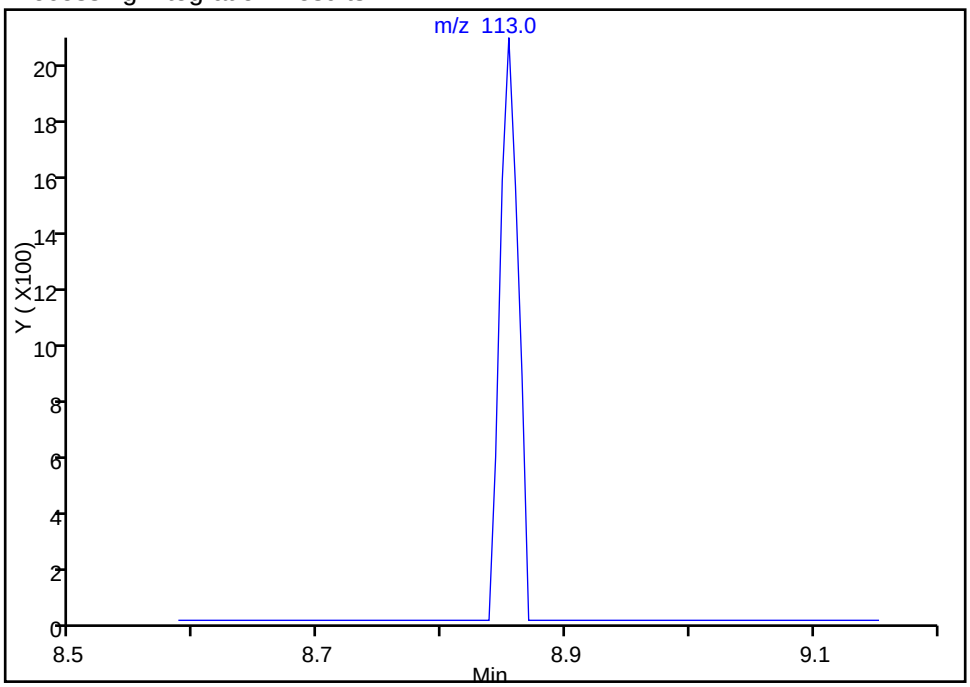
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Injection Date: 21-Jul-2017 12:19:30 Instrument ID: HP5973U
Lims ID: IC - List1 5
Client ID:
Operator ID: DR ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: U-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

76 Caprolactam, CAS: 105-60-2

Signal: 1

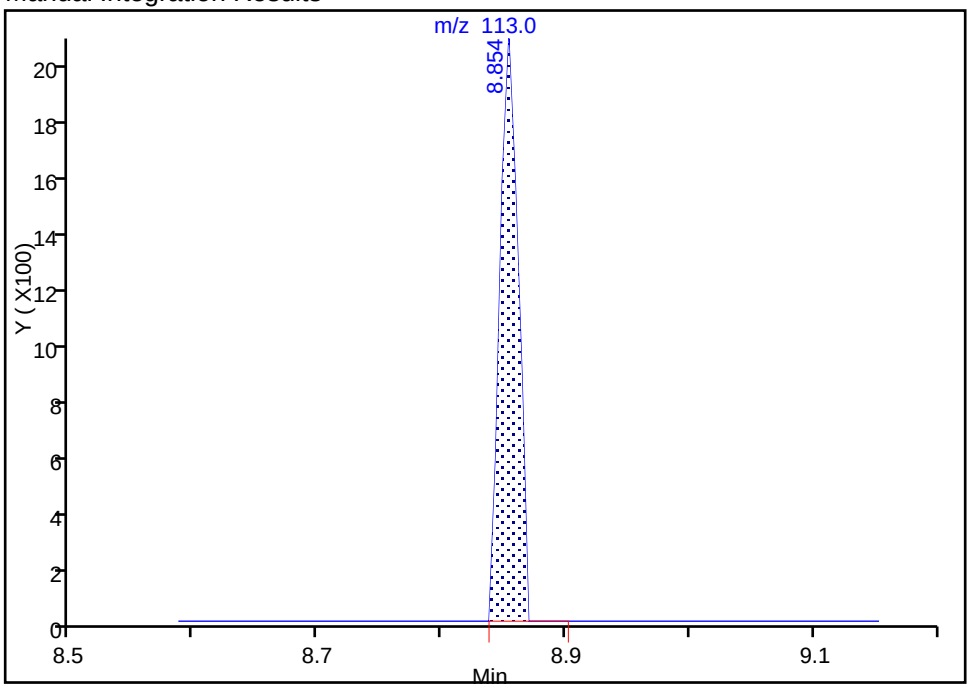
Not Detected
Expected RT: 8.88

Processing Integration Results



Manual Integration Results

RT: 8.85
Area: 2100
Amount: 5.448695
Amount Units: ng/uL



Reviewer: richardsd, 21-Jul-2017 16:14:23
Audit Action: Manually Integrated Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

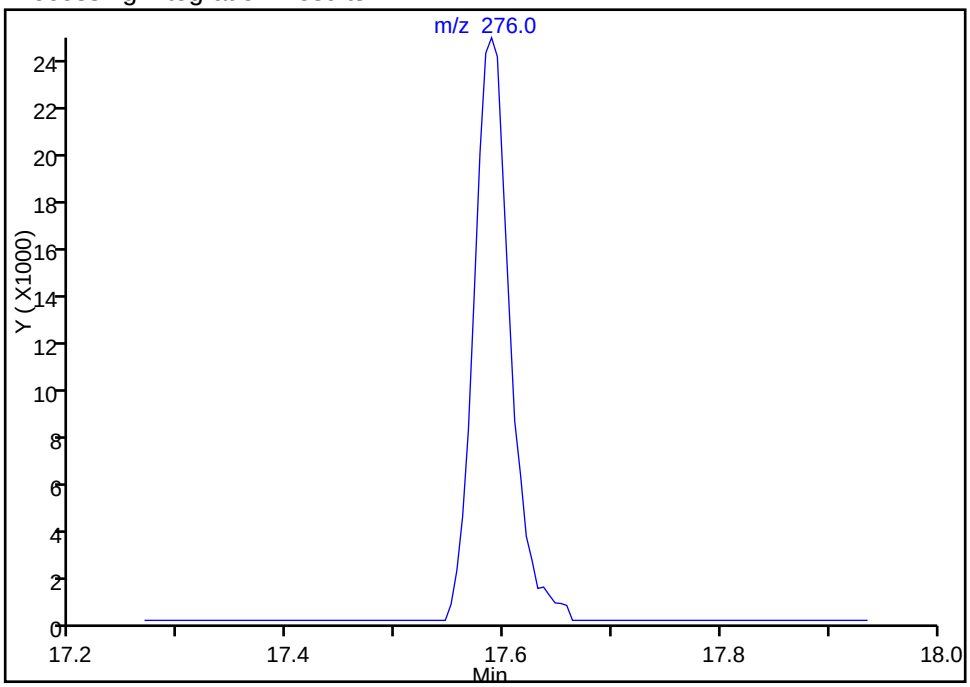
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Injection Date:	21-Jul-2017 12:19:30	Instrument ID:	HP5973U		
Lims ID:	IC - List1 5				
Client ID:					
Operator ID:	DR	ALS Bottle#:	3	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	U-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

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

Signal: 1

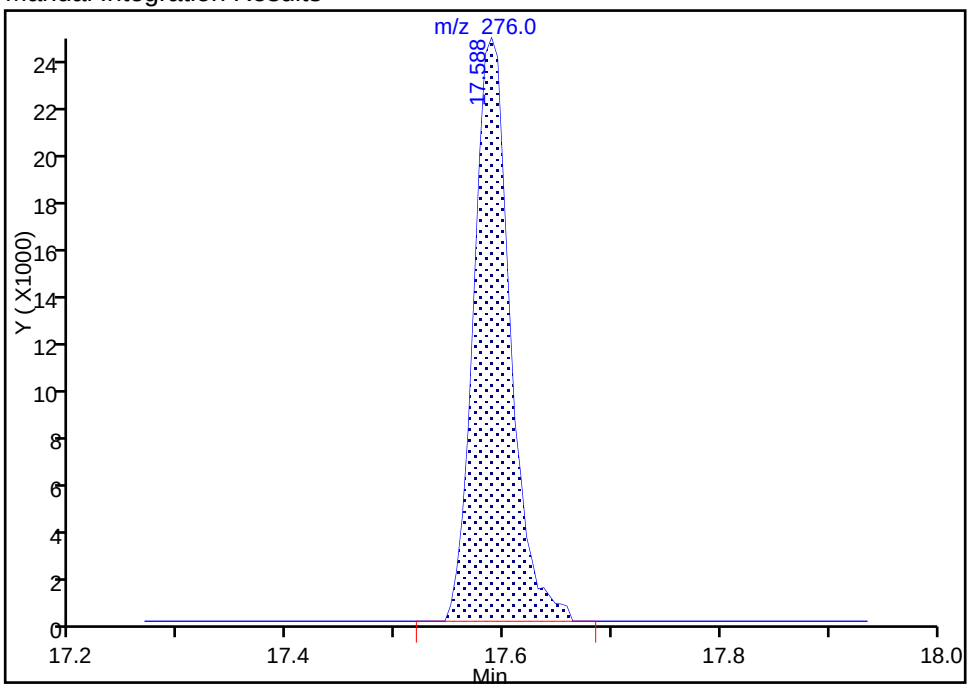
Not Detected
Expected RT: 17.59

Processing Integration Results



Manual Integration Results

RT: 17.59
Area: 56875
Amount: 4.659923
Amount Units: ng/uL



Reviewer: richardsd, 21-Jul-2017 16:14:54
Audit Action: Assigned Compound ID Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20170721-64235.b\U326523.D

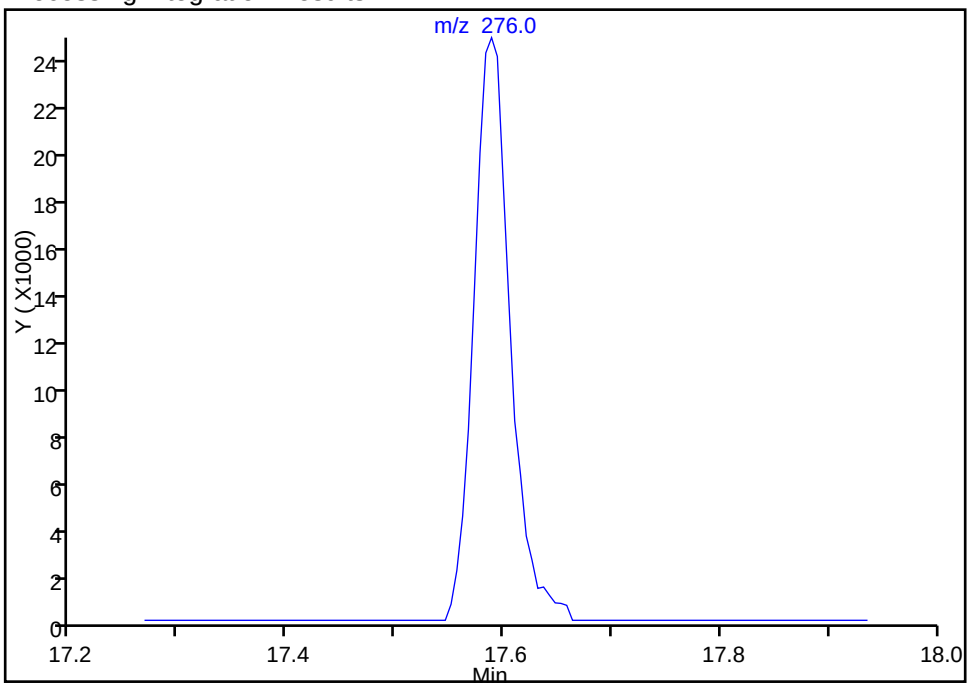
Injection Date:	21-Jul-2017 12:19:30	Instrument ID:	HP5973U		
Lims ID:	IC - List1 5				
Client ID:					
Operator ID:	DR	ALS Bottle#:	3	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	U-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

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

Signal: 1

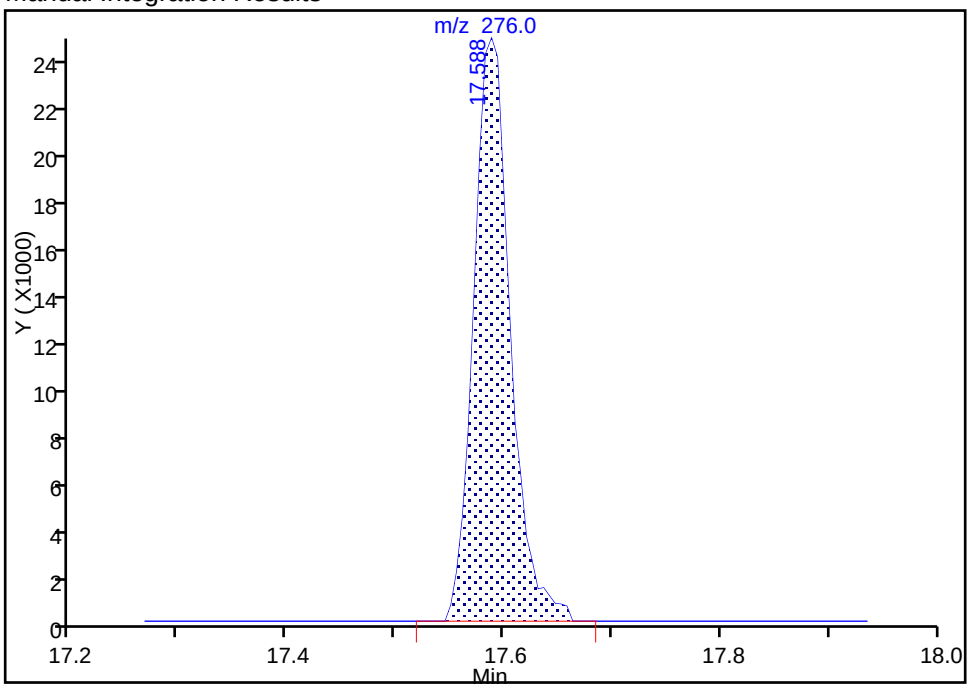
Not Detected
Expected RT: 17.59

Processing Integration Results



Manual Integration Results

RT: 17.59
Area: 56875
Amount: 4.659923
Amount Units: ng/uL



Reviewer: richardsd, 21-Jul-2017 16:14:56
Audit Action: Manually Integrated Audit Reason: Assign Peak

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20170721-64235.b\U326524.D
Lims ID: IC - List1 20
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 21-Jul-2017 12:46:30 ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 480-0064235-004
Operator ID: DR Instrument ID: HP5973U
Sublist: chrom-U-8270*sub56

Method: \\ChromNA\Buffalo\ChromData\HP5973U\20170721-64235.b\U-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 24-Jul-2017 11:19:39 Calib Date: 21-Jul-2017 22:04:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973U\20170721-64235.b\U326545.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK004

First Level Reviewer: richardsd Date: 21-Jul-2017 16:15:48

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	6.914	6.914	0.000	95	87924	40.0	40.0	
* 2 Naphthalene-d8	136	8.426	8.426	0.000	99	343920	40.0	40.0	
* 3 Acenaphthene-d10	164	10.478	10.478	0.000	98	160420	40.0	40.0	
* 4 Phenanthrene-d10	188	11.984	11.984	0.000	97	317437	40.0	40.0	
* 5 Chrysene-d12	240	14.383	14.383	0.000	96	386006	40.0	40.0	
* 6 Perylene-d12	264	15.980	15.980	0.000	97	403037	40.0	40.0	
$ 7 2-Fluorophenol	112	5.333	5.333	0.000	93	54934	20.0	19.9	
$ 8 Phenol-d5	99	6.439	6.439	0.000	99	69581	20.0	20.0	
$ 9 Nitrobenzene-d5	82	7.555	7.561	-0.006	89	35543	20.0	16.8	M
$ 10 2-Fluorobiphenyl	172	9.687	9.687	0.000	99	123026	20.0	20.4	
$ 11 2,4,6-Tribromophenol	330	11.300	11.300	0.000	92	14760	20.0	16.8	
$ 12 p-Terphenyl-d14	244	13.389	13.389	0.000	99	162082	20.0	20.8	
23 1,4-Dioxane	88	2.961	2.961	0.000	97	28457	20.0	20.8	
24 N-Nitrosodimethylamine	42	3.415	3.415	0.000	97	31314	20.0	20.8	
25 Pyridine	52	3.517	3.517	0.000	92	58321	20.0	21.0	
32 Benzaldehyde	77	6.386	6.386	0.000	94	48395	20.0	23.9	
33 Phenol	94	6.455	6.455	0.000	97	71112	20.0	20.3	
34 Aniline	93	6.508	6.514	-0.006	97	92988	20.0	20.6	
35 Bis(2-chloroethyl)ether	93	6.562	6.562	0.000	96	61290	20.0	20.9	
37 2-Chlorophenol	128	6.669	6.669	0.000	98	57388	20.0	19.7	
38 n-Decane	57	6.701	6.701	0.000	93	78509	20.0	20.9	
39 1,3-Dichlorobenzene	146	6.856	6.856	0.000	98	68526	20.0	20.5	
40 1,4-Dichlorobenzene	146	6.936	6.936	0.000	96	69728	20.0	20.3	
41 Benzyl alcohol	108	7.048	7.053	-0.005	94	35219	20.0	19.7	
42 1,2-Dichlorobenzene	146	7.123	7.128	-0.005	97	65314	20.0	20.5	
43 2-Methylphenol	108	7.171	7.176	-0.005	96	51910	20.0	20.0	
44 2,2'-oxybis[1-chloropropan	45	7.208	7.208	0.000	95	95516	20.0	21.7	
45 Indene	115	7.230	7.230	0.000	89	329546	60.0	64.7	
46 4-Methylphenol	108	7.347	7.352	-0.005	94	54145	20.0	20.1	
47 N-Nitrosodi-n-propylamine	70	7.358	7.358	0.000	88	41889	20.0	20.3	
49 Acetophenone	105	7.368	7.374	-0.006	96	81822	20.0	20.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
53 Hexachloroethane	117	7.534	7.534	0.000	94	22828	20.0	19.7	
54 Nitrobenzene	77	7.582	7.582	0.000	88	37627	20.0	17.0	
56 Isophorone	82	7.855	7.855	0.000	99	110037	20.0	20.5	
59 2-Nitrophenol	139	7.961	7.962	-0.001	88	12611	20.0	14.9	
60 2,4-Dimethylphenol	107	7.983	7.983	0.000	92	52664	20.0	19.7	
62 Bis(2-chloroethoxy)methane	93	8.084	8.084	0.000	98	67323	20.0	20.6	
64 Benzoic acid	105	8.068	8.100	-0.032	87	38736	60.0	65.6	M
67 2,4-Dichlorophenol	162	8.250	8.250	0.000	93	41911	20.0	19.1	
68 1,2,4-Trichlorobenzene	180	8.357	8.357	0.000	94	52323	20.0	19.9	
70 Naphthalene	128	8.453	8.453	0.000	97	176104	20.0	20.6	
72 4-Chloroaniline	127	8.490	8.490	0.000	98	72604	20.0	20.1	
73 2,6-Dichlorophenol	162	8.512	8.512	0.000	98	42283	20.0	19.4	
74 Hexachlorobutadiene	225	8.597	8.597	0.000	97	29243	20.0	19.6	
76 Caprolactam	113	8.864	8.875	-0.011	79	14526	20.0	18.5	
80 4-Chloro-3-methylphenol	107	9.046	9.051	-0.005	96	41462	20.0	19.1	
83 2-Methylnaphthalene	142	9.270	9.270	0.000	92	117117	20.0	20.3	
85 1-Methylnaphthalene	142	9.388	9.388	0.000	93	109718	20.0	20.4	
86 Hexachlorocyclopentadiene	237	9.468	9.468	0.000	96	19072	20.0	16.5	
87 1,2,4,5-Tetrachlorobenzene	216	9.473	9.473	0.000	97	49180	20.0	19.7	
89 2,4,6-Trichlorophenol	196	9.596	9.596	0.000	92	26659	20.0	18.8	
91 2,4,5-Trichlorophenol	196	9.644	9.644	0.000	95	29150	20.0	19.2	M
94 1,1'-Biphenyl	154	9.810	9.810	0.000	95	140854	20.0	20.8	
95 2-Chloronaphthalene	162	9.847	9.847	0.000	96	105806	20.0	20.5	
98 2-Nitroaniline	65	9.943	9.943	0.000	87	10983	20.0	14.5	
102 Dimethyl phthalate	163	10.130	10.130	0.000	100	116374	20.0	20.4	
103 1,3-Dinitrobenzene	168	10.173	10.173	0.000	86	5478	20.0	13.8	
104 2,6-Dinitrotoluene	165	10.200	10.205	-0.005	95	10732	20.0	14.6	
105 Acenaphthylene	152	10.323	10.323	0.000	98	158165	20.0	20.6	
106 3-Nitroaniline	138	10.398	10.398	0.000	95	13929	20.0	15.1	
108 Acenaphthene	153	10.510	10.515	-0.005	95	111181	20.0	20.8	
107 2,4-Dinitrophenol	184	10.510	10.515	-0.005	58	7771	40.0	29.1	
109 4-Nitrophenol	109	10.563	10.563	0.000	87	15095	40.0	32.3	
111 2,4-Dinitrotoluene	165	10.649	10.649	0.000	95	12302	20.0	13.9	
112 Dibenzofuran	168	10.697	10.697	0.000	96	150821	20.0	20.5	
116 2,3,4,6-Tetrachlorophenol	232	10.825	10.825	0.000	72	18814	20.0	17.3	
118 Diethyl phthalate	149	10.884	10.889	-0.005	98	112241	20.0	20.1	
119 Hexadecane	57	10.894	10.900	-0.006	91	85635	20.0	21.6	
121 4-Chlorophenyl phenyl ethe	204	11.033	11.033	0.000	90	60318	20.0	20.5	
122 4-Nitroaniline	138	11.044	11.049	-0.005	87	19558	20.0	16.6	
123 Fluorene	166	11.055	11.055	0.000	94	125056	20.0	20.6	
125 4,6-Dinitro-2-methylphenol	198	11.087	11.087	0.000	91	11789	40.0	27.5	
127 N-Nitrosodiphenylamine	169	11.145	11.145	0.000	63	89982	20.0	20.3	
128 Diphenylamine	169	11.145	11.145	0.000	94	89982	17.1	17.3	
129 1,2-Diphenylhydrazine	77	11.194	11.194	0.000	99	119252	20.0	21.1	
130 Azobenzene	77	11.194	11.194	0.000	98	119252	20.0	21.1	
137 4-Bromophenyl phenyl ether	248	11.525	11.525	0.000	64	36387	20.0	19.8	
139 Hexachlorobenzene	284	11.626	11.626	0.000	96	42751	20.0	19.8	
141 Atrazine	200	11.648	11.648	0.000	92	30896	20.0	20.0	
143 Pentachlorophenol	266	11.803	11.803	0.000	94	25810	40.0	33.3	
144 n-Octadecane	57	11.803	11.803	0.000	93	85866	20.0	21.8	
150 Phenanthrene	178	12.006	12.006	0.000	98	182354	20.0	20.9	
151 Anthracene	178	12.054	12.054	0.000	96	187824	20.0	20.6	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
152 Carbazole	167	12.187	12.187	0.000	97	169746	20.0	21.0	
155 Di-n-butyl phthalate	149	12.449	12.449	0.000	100	170340	20.0	19.5	
162 Fluoranthene	202	13.090	13.095	-0.005	99	196333	20.0	20.7	
164 Benzidine	184	13.170	13.170	0.000	99	97362	20.0	21.4	
165 Pyrene	202	13.304	13.304	0.000	97	211883	20.0	20.9	
172 Butyl benzyl phthalate	149	13.779	13.785	-0.006	96	54828	20.0	17.0	
178 Bis(2-ethylhexyl) phthalat	149	14.260	14.260	0.000	97	78085	20.0	17.3	
179 3,3'-Dichlorobenzidine	252	14.303	14.303	0.000	73	73425	20.0	19.3	
181 Benzo[a]anthracene	228	14.372	14.372	0.000	98	221305	20.0	20.7	
182 Chrysene	228	14.404	14.410	-0.006	97	214626	20.0	20.7	
183 Di-n-octyl phthalate	149	14.858	14.858	0.000	99	123513	20.0	16.5	
185 Benzo[b]fluoranthene	252	15.494	15.499	-0.005	97	238627	20.0	20.9	
187 Benzo[k]fluoranthene	252	15.526	15.526	0.000	99	250132	20.0	20.5	
190 Benzo[a]pyrene	252	15.911	15.911	0.000	78	223195	20.0	20.3	
193 Dibenz(a,h)anthracene	278	17.578	17.583	-0.005	90	232355	20.0	19.5	
194 Indeno[1,2,3-cd]pyrene	276	17.583	17.588	-0.005	98	277577	20.0	19.6	
195 Benzo[g,h,i]perylene	276	18.085	18.090	-0.005	97	232425	20.0	19.4	
S 256 3-Methylphenol	1				0			20.1	
S 254 Total Cresols	1				0			40.1	
S 257 3 & 4 Methylphenol	108				0			20.1	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

MB_LIST1_WRK_00475	Amount Added: 1.00	Units: mL	
MB_INTSTD_STK_00036	Amount Added: 20.00	Units: uL	Run Reagent

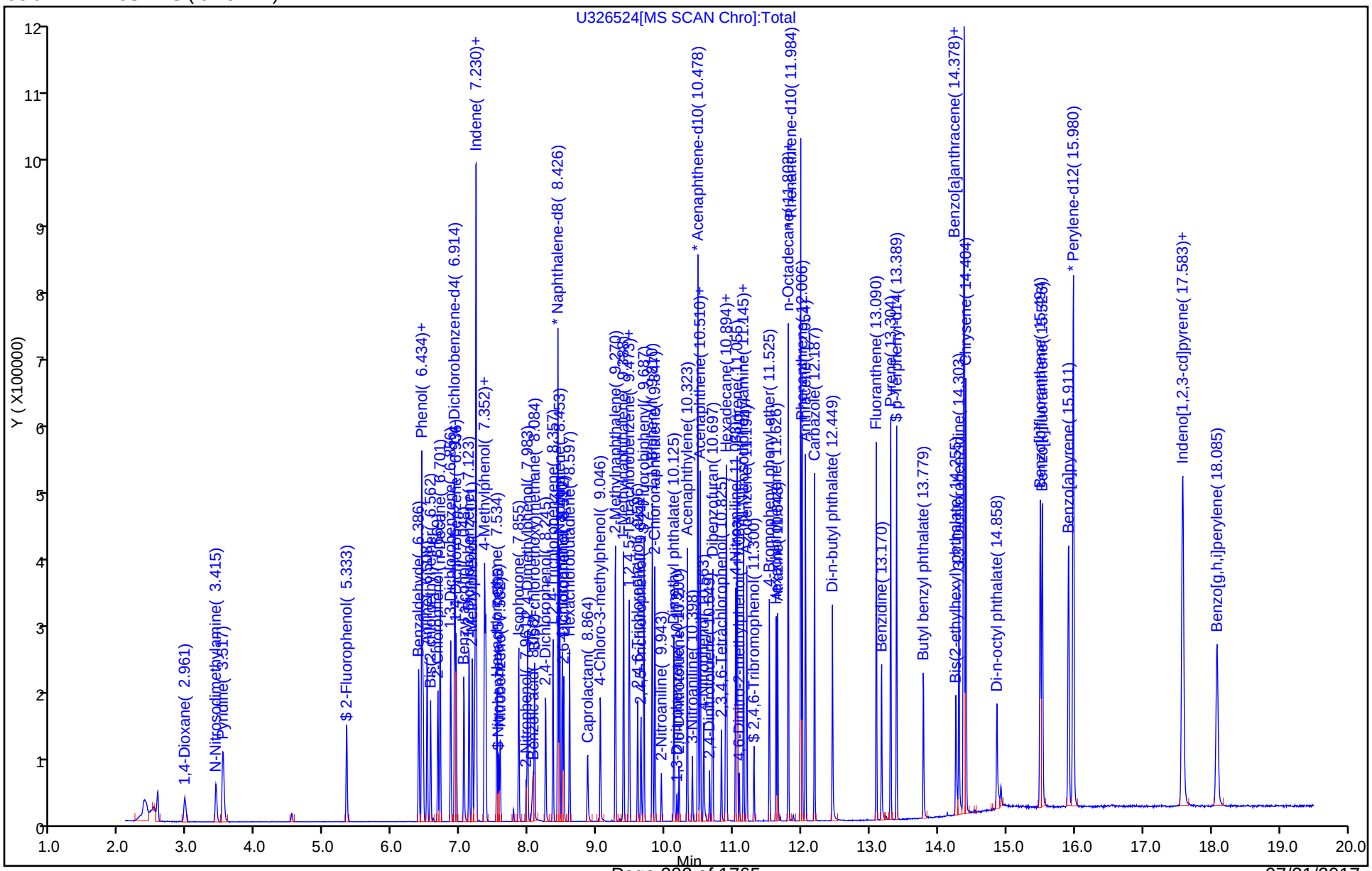
Report Date: 24-Jul-2017 11:19:40 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20170721-64235.b\U326524.D

Injection Date:	21-Jul-2017 12:46:30	Instrument ID:	HP5973U	Operator ID:	DR
Lims ID:	IC - List1 20			Worklist Smp#:	4
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	U-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

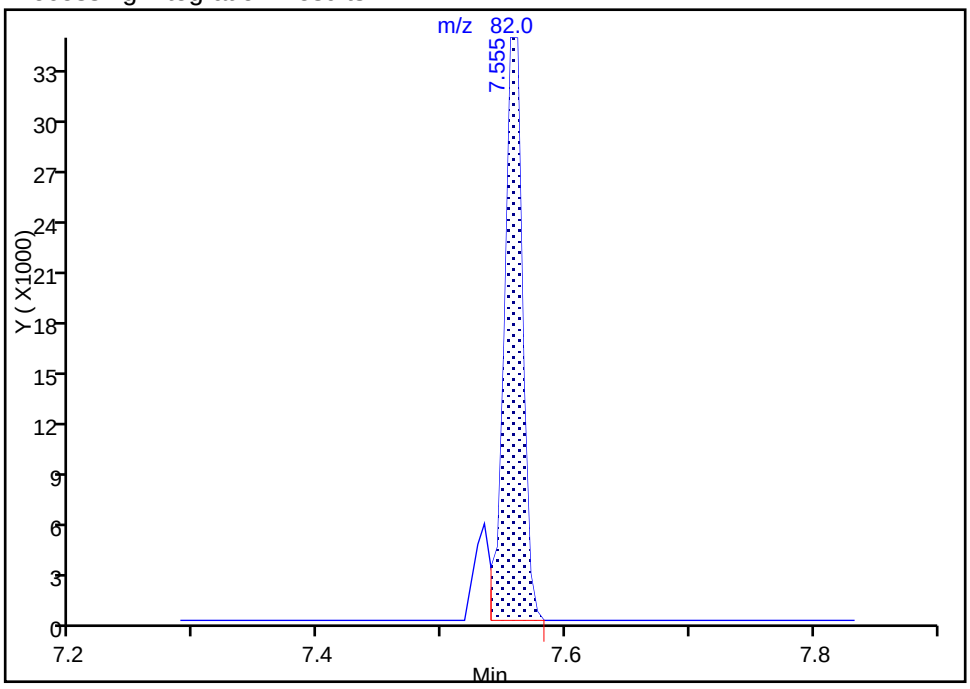
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Injection Date: 21-Jul-2017 12:46:30 Instrument ID: HP5973U
Lims ID: IC - List1 20
Client ID:
Operator ID: DR ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: U-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

$ 9 Nitrobenzene-d5, CAS: 4165-60-0

Signal: 1

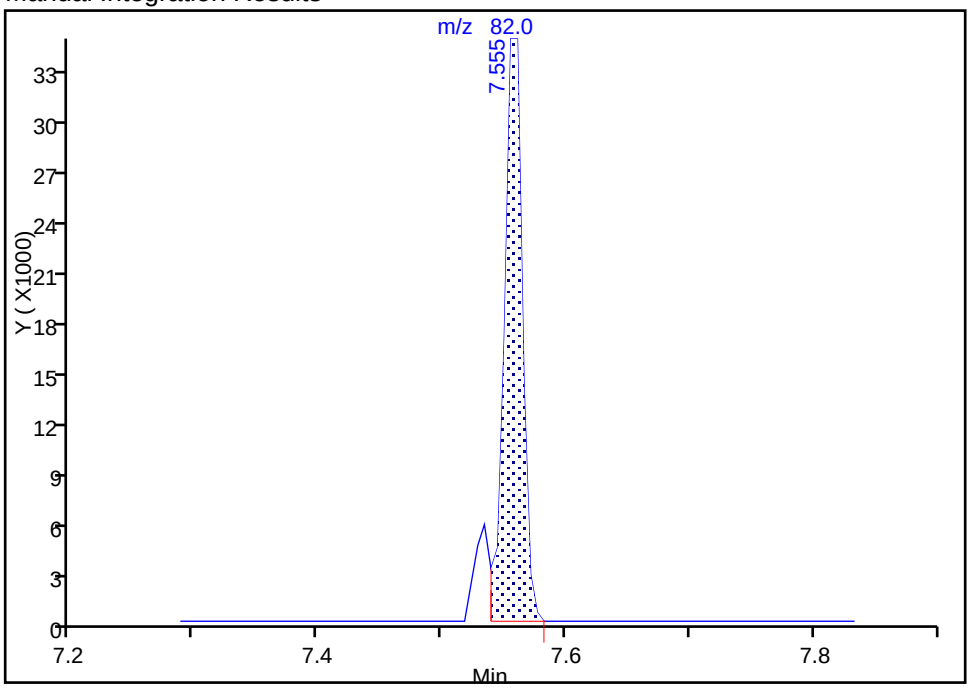
Processing Integration Results

RT: 7.56
Area: 35543
Amount: 16.562643
Amount Units: ng/uL



Manual Integration Results

RT: 7.56
Area: 35543
Amount: 16.762477
Amount Units: ng/uL



Reviewer: richardsd, 24-Jul-2017 09:37:26
Audit Action: Split an Integrated Peak Audit Reason: Peak Tail

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

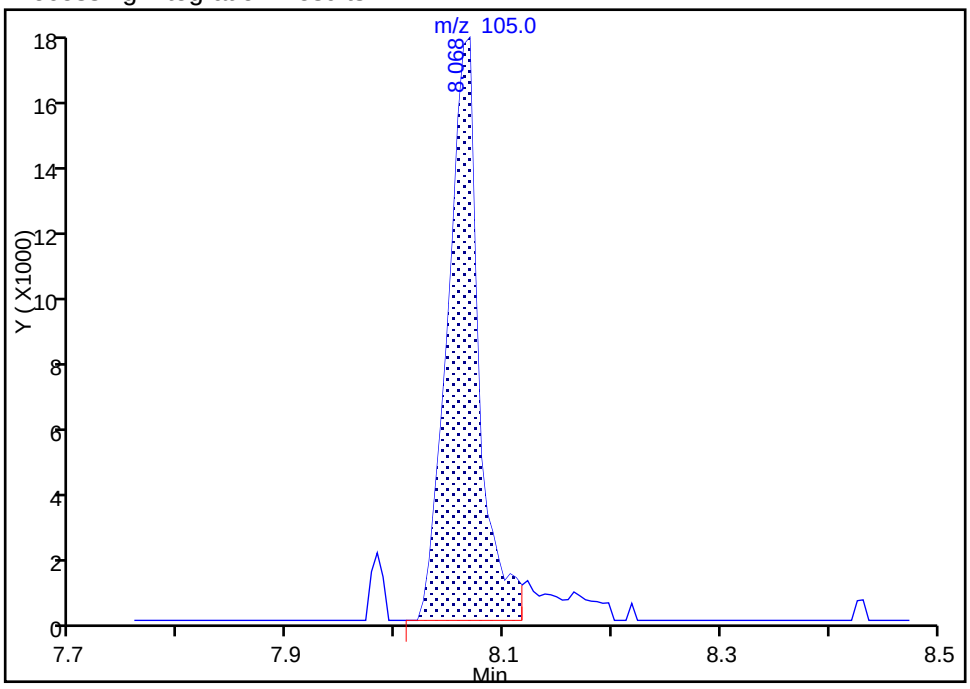
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Injection Date: 21-Jul-2017 12:46:30 Instrument ID: HP5973U
Lims ID: IC - List1 20
Client ID:
Operator ID: DR ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: U-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

64 Benzoic acid, CAS: 65-85-0

Signal: 1

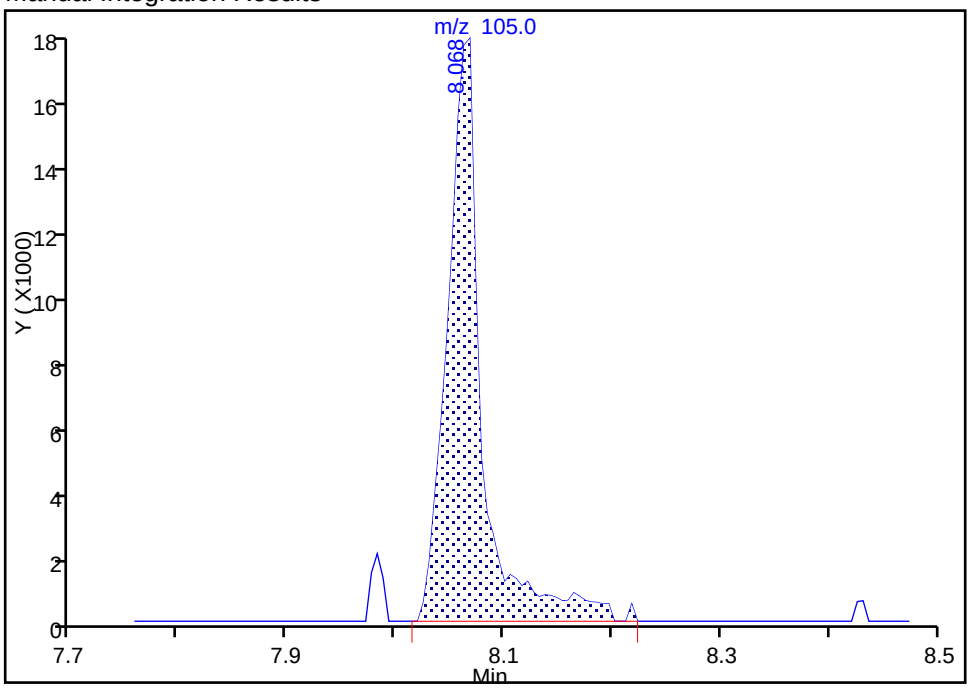
Processing Integration Results

RT: 8.07
Area: 35144
Amount: 31.863629
Amount Units: ng/uL



Manual Integration Results

RT: 8.07
Area: 38736
Amount: 65.641745
Amount Units: ng/uL



Reviewer: richardsd, 24-Jul-2017 09:54:50
Audit Action: Manually Integrated Audit Reason: Peak Tail

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

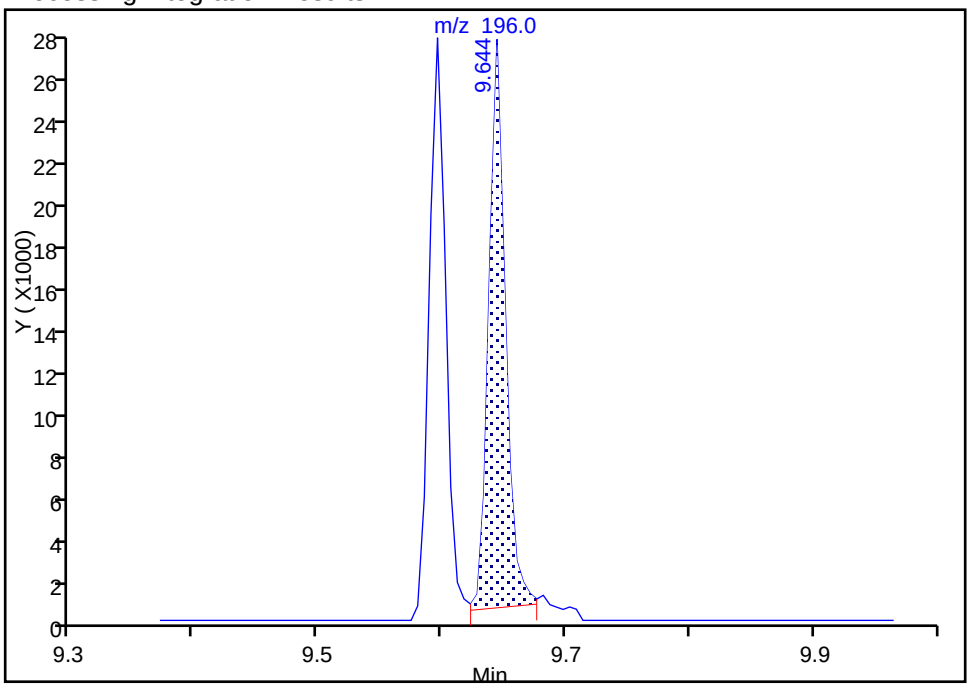
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Injection Date: 21-Jul-2017 12:46:30 Instrument ID: HP5973U
Lims ID: IC - List1 20
Client ID:
Operator ID: DR ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: U-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

91 2,4,5-Trichlorophenol, CAS: 95-95-4

Signal: 1

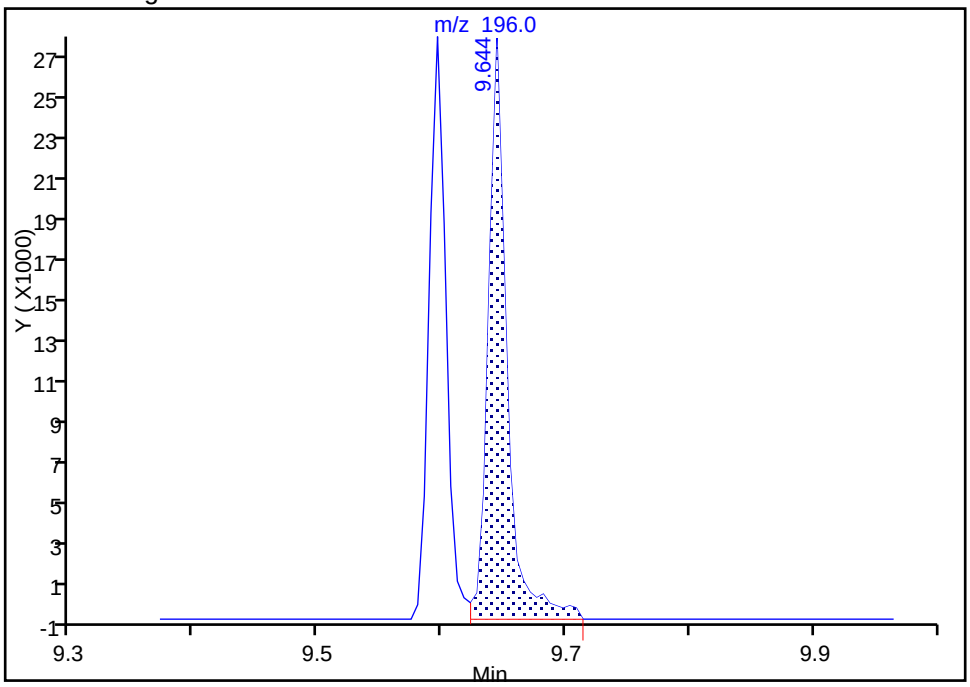
Processing Integration Results

RT: 9.64
Area: 25514
Amount: 17.638448
Amount Units: ng/uL



Manual Integration Results

RT: 9.64
Area: 29150
Amount: 19.168322
Amount Units: ng/uL



Reviewer: richardsd, 21-Jul-2017 16:15:31
Audit Action: Manually Integrated Audit Reason: Baseline

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20170721-64235.b\U326525.D
Lims ID: ICIS - List1 50
Client ID:
Sample Type: ICIS Calib Level: 3
Inject. Date: 21-Jul-2017 13:12:30 ALS Bottle#: 5 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 480-0064235-005
Operator ID: DR Instrument ID: HP5973U
Sublist: chrom-U-8270*sub56

Method: \\ChromNA\Buffalo\ChromData\HP5973U\20170721-64235.b\U-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 24-Jul-2017 11:19:43 Calib Date: 21-Jul-2017 22:04:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973U\20170721-64235.b\U326545.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK004

First Level Reviewer: richardsd Date: 21-Jul-2017 19:54:37

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	6.914	6.914	0.000	95	93593	40.0	40.0	
* 2 Naphthalene-d8	136	8.426	8.426	0.000	99	364287	40.0	40.0	
* 3 Acenaphthene-d10	164	10.478	10.478	0.000	98	174569	40.0	40.0	
* 4 Phenanthrene-d10	188	11.984	11.984	0.000	97	342979	40.0	40.0	
* 5 Chrysene-d12	240	14.383	14.383	0.000	96	423065	40.0	40.0	
* 6 Perylene-d12	264	15.980	15.980	0.000	97	440812	40.0	40.0	
$ 7 2-Fluorophenol	112	5.333	5.333	0.000	94	146861	50.0	49.9	
$ 8 Phenol-d5	99	6.439	6.439	0.000	99	185475	50.0	50.0	
$ 9 Nitrobenzene-d5	82	7.561	7.561	0.000	88	111718	50.0	43.0	M
$ 10 2-Fluorobiphenyl	172	9.687	9.687	0.000	99	320548	50.0	48.8	
$ 11 2,4,6-Tribromophenol	330	11.300	11.300	0.000	92	49650	50.0	44.1	
$ 12 p-Terphenyl-d14	244	13.389	13.389	0.000	99	417087	50.0	48.8	
23 1,4-Dioxane	88	2.961	2.961	0.000	98	71483	50.0	49.1	
24 N-Nitrosodimethylamine	42	3.415	3.415	0.000	96	79521	50.0	49.5	
25 Pyridine	52	3.517	3.517	0.000	93	145652	50.0	49.4	
32 Benzaldehyde	77	6.386	6.386	0.000	94	106338	50.0	49.3	
33 Phenol	94	6.455	6.455	0.000	97	185765	50.0	49.8	
34 Aniline	93	6.514	6.514	0.000	97	236954	50.0	49.2	
35 Bis(2-chloroethyl)ether	93	6.562	6.562	0.000	96	153167	50.0	49.0	
37 2-Chlorophenol	128	6.669	6.669	0.000	97	154151	50.0	49.6	
38 n-Decane	57	6.701	6.701	0.000	91	197632	50.0	49.5	
39 1,3-Dichlorobenzene	146	6.856	6.856	0.000	98	172751	50.0	48.4	
40 1,4-Dichlorobenzene	146	6.936	6.936	0.000	95	176637	50.0	48.4	
41 Benzyl alcohol	108	7.053	7.053	0.000	94	98037	50.0	49.2	
42 1,2-Dichlorobenzene	146	7.128	7.128	0.000	98	166341	50.0	49.0	
43 2-Methylphenol	108	7.176	7.176	0.000	95	138159	50.0	50.0	
44 2,2'-oxybis[1-chloropropan	45	7.208	7.208	0.000	95	232692	50.0	49.6	
45 Indene	115	7.230	7.230	0.000	89	802778	150.0	148.0	
46 4-Methylphenol	108	7.352	7.352	0.000	97	143798	50.0	50.1	
47 N-Nitrosodi-n-propylamine	70	7.358	7.358	0.000	90	109877	50.0	50.1	
49 Acetophenone	105	7.374	7.374	0.000	96	207068	50.0	49.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
53 Hexachloroethane	117	7.534	7.534	0.000	95	59625	50.0	48.3	
54 Nitrobenzene	77	7.582	7.582	0.000	87	119399	50.0	44.5	
56 Isophorone	82	7.855	7.855	0.000	99	282952	50.0	49.9	
59 2-Nitrophenol	139	7.962	7.962	0.000	92	44873	50.0	38.7	
60 2,4-Dimethylphenol	107	7.983	7.983	0.000	92	142917	50.0	50.4	
62 Bis(2-chloroethoxy)methane	93	8.084	8.084	0.000	99	171227	50.0	49.5	
64 Benzoic acid	105	8.100	8.100	0.000	88	170901	150.0	132.4	M
67 2,4-Dichlorophenol	162	8.250	8.250	0.000	94	115025	50.0	46.9	
68 1,2,4-Trichlorobenzene	180	8.357	8.357	0.000	94	134704	50.0	48.5	
70 Naphthalene	128	8.453	8.453	0.000	97	446408	50.0	49.2	
72 4-Chloroaniline	127	8.490	8.490	0.000	97	190270	50.0	49.6	
73 2,6-Dichlorophenol	162	8.512	8.512	0.000	98	114994	50.0	47.5	
74 Hexachlorobutadiene	225	8.597	8.597	0.000	96	76902	50.0	48.7	
76 Caprolactam	113	8.875	8.875	0.000	80	43675	50.0	47.1	
80 4-Chloro-3-methylphenol	107	9.051	9.051	0.000	96	117935	50.0	48.4	
83 2-Methylnaphthalene	142	9.270	9.270	0.000	92	300919	50.0	49.1	
85 1-Methylnaphthalene	142	9.388	9.388	0.000	93	278305	50.0	48.8	
86 Hexachlorocyclopentadiene	237	9.468	9.468	0.000	96	64315	50.0	42.6	
87 1,2,4,5-Tetrachlorobenzene	216	9.473	9.473	0.000	98	130498	50.0	48.0	
89 2,4,6-Trichlorophenol	196	9.596	9.596	0.000	92	77709	50.0	46.3	
91 2,4,5-Trichlorophenol	196	9.644	9.644	0.000	96	85117	50.0	47.3	M
94 1,1'-Biphenyl	154	9.810	9.810	0.000	96	355190	50.0	48.2	
95 2-Chloronaphthalene	162	9.847	9.847	0.000	97	271341	50.0	48.4	
98 2-Nitroaniline	65	9.943	9.943	0.000	87	44850	50.0	39.2	
102 Dimethyl phthalate	163	10.130	10.130	0.000	99	307704	50.0	49.6	
103 1,3-Dinitrobenzene	168	10.173	10.173	0.000	88	22620	50.0	35.9	
104 2,6-Dinitrotoluene	165	10.205	10.205	0.000	96	42299	50.0	38.3	
105 Acenaphthylene	152	10.323	10.323	0.000	98	407608	50.0	48.7	
106 3-Nitroaniline	138	10.398	10.398	0.000	95	53328	50.0	40.1	
107 2,4-Dinitrophenol	184	10.515	10.515	0.000	59	29593	100.0	68.7	
108 Acenaphthene	153	10.515	10.515	0.000	95	285939	50.0	49.2	
109 4-Nitrophenol	109	10.563	10.563	0.000	89	56926	100.0	87.8	
111 2,4-Dinitrotoluene	165	10.649	10.649	0.000	95	51860	50.0	37.7	
112 Dibenzofuran	168	10.697	10.697	0.000	96	385640	50.0	48.1	
116 2,3,4,6-Tetrachlorophenol	232	10.825	10.825	0.000	72	59476	50.0	43.2	
118 Diethyl phthalate	149	10.889	10.889	0.000	99	306030	50.0	50.3	
119 Hexadecane	57	10.900	10.900	0.000	92	212389	50.0	49.3	
121 4-Chlorophenyl phenyl ethe	204	11.033	11.033	0.000	90	155132	50.0	48.5	
122 4-Nitroaniline	138	11.049	11.049	0.000	89	68052	50.0	43.6	
123 Fluorene	166	11.055	11.055	0.000	93	321183	50.0	48.7	
125 4,6-Dinitro-2-methylphenol	198	11.087	11.087	0.000	89	47572	100.0	70.1	
128 Diphenylamine	169	11.145	11.145	0.000	94	237278	42.8	42.3	
127 N-Nitrosodiphenylamine	169	11.145	11.145	0.000	63	237278	50.0	49.5	
130 Azobenzene	77	11.194	11.194	0.000	98	304628	50.0	49.8	
129 1,2-Diphenylhydrazine	77	11.194	11.194	0.000	99	304628	50.0	49.8	
137 4-Bromophenyl phenyl ether	248	11.525	11.525	0.000	64	97196	50.0	48.9	
139 Hexachlorobenzene	284	11.626	11.626	0.000	96	113769	50.0	48.7	
141 Atrazine	200	11.648	11.648	0.000	93	84700	50.0	48.4	
144 n-Octadecane	57	11.803	11.803	0.000	94	211004	50.0	49.6	
143 Pentachlorophenol	266	11.803	11.803	0.000	94	91854	100.0	88.4	
150 Phenanthrene	178	12.006	12.006	0.000	97	460846	50.0	48.8	
151 Anthracene	178	12.054	12.054	0.000	97	486084	50.0	49.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
152 Carbazole	167	12.187	12.187	0.000	98	430014	50.0	49.2	
155 Di-n-butyl phthalate	149	12.449	12.449	0.000	100	491583	50.0	49.5	
162 Fluoranthene	202	13.095	13.095	0.000	99	508280	50.0	49.5	
164 Benzidine	184	13.170	13.170	0.000	99	267441	50.0	53.7	
165 Pyrene	202	13.304	13.304	0.000	96	544235	50.0	49.1	
172 Butyl benzyl phthalate	149	13.785	13.785	0.000	97	187829	50.0	44.9	
178 Bis(2-ethylhexyl) phthalat	149	14.260	14.260	0.000	97	273866	50.0	46.6	
179 3,3'-Dichlorobenzidine	252	14.303	14.303	0.000	73	209100	50.0	47.7	
181 Benzo[a]anthracene	228	14.372	14.372	0.000	98	574052	50.0	49.1	
182 Chrysene	228	14.410	14.410	0.000	97	562829	50.0	49.6	
183 Di-n-octyl phthalate	149	14.858	14.858	0.000	99	453886	50.0	45.7	
185 Benzo[b]fluoranthene	252	15.499	15.499	0.000	97	590908	50.0	47.4	
187 Benzo[k]fluoranthene	252	15.526	15.526	0.000	98	673238	50.0	50.6	
190 Benzo[a]pyrene	252	15.911	15.911	0.000	78	590148	50.0	49.1	
193 Dibenz(a,h)anthracene	278	17.583	17.583	0.000	91	630991	50.0	48.3	
194 Indeno[1,2,3-cd]pyrene	276	17.588	17.588	0.000	97	746744	50.0	48.1	
195 Benzo[g,h,i]perylene	276	18.090	18.090	0.000	97	626489	50.0	47.8	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

MB_LIST1_WRK_00476	Amount Added: 1.00	Units: mL	
MB_INTSTD_STK_00036	Amount Added: 20.00	Units: uL	Run Reagent

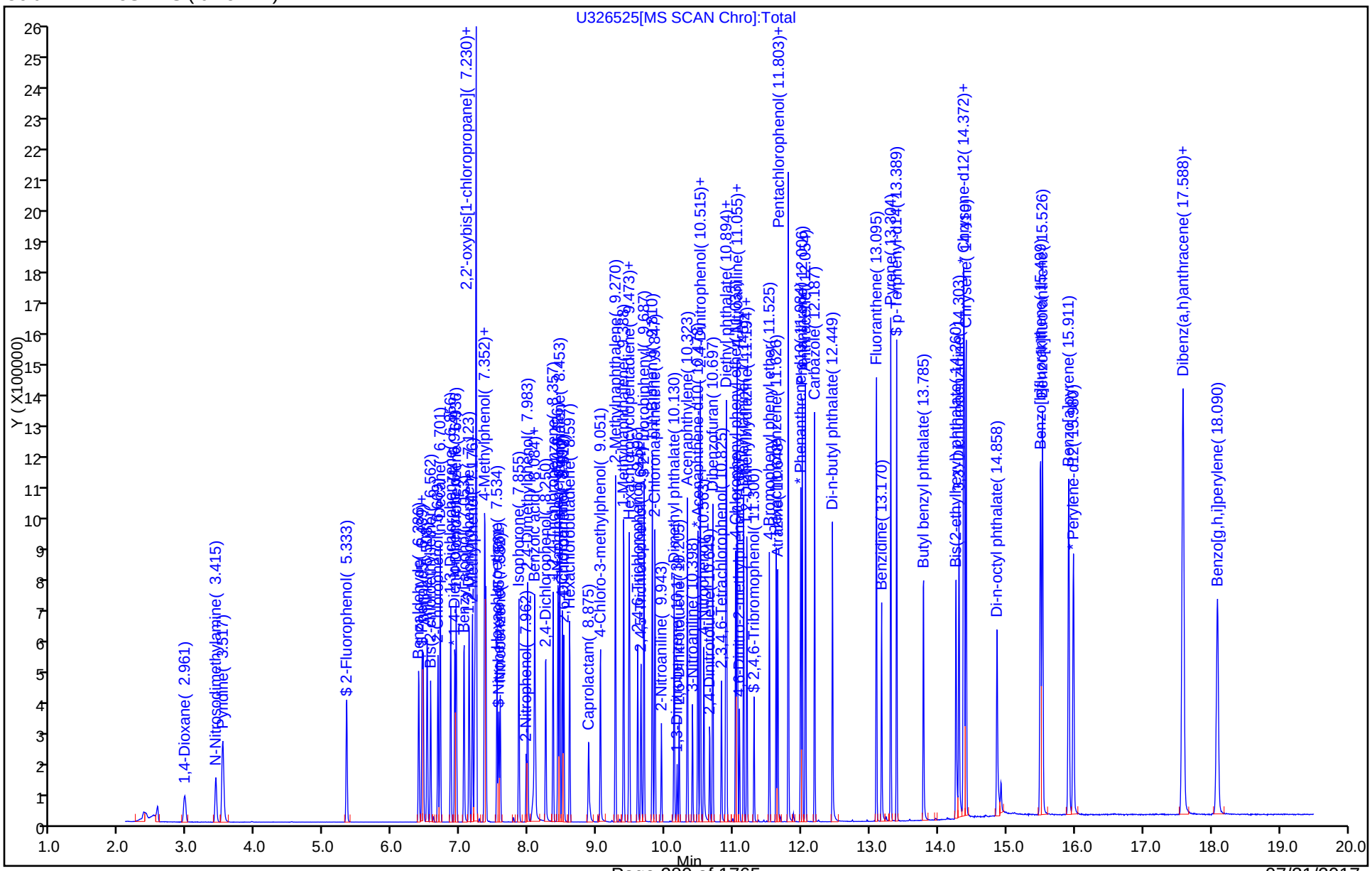
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TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20170721-64235.b\U326525.D

Injection Date:	21-Jul-2017 13:12:30	Instrument ID:	HP5973U	Operator ID:	DR
Lims ID:	ICIS - List1 50			Worklist Smp#:	5
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	U-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

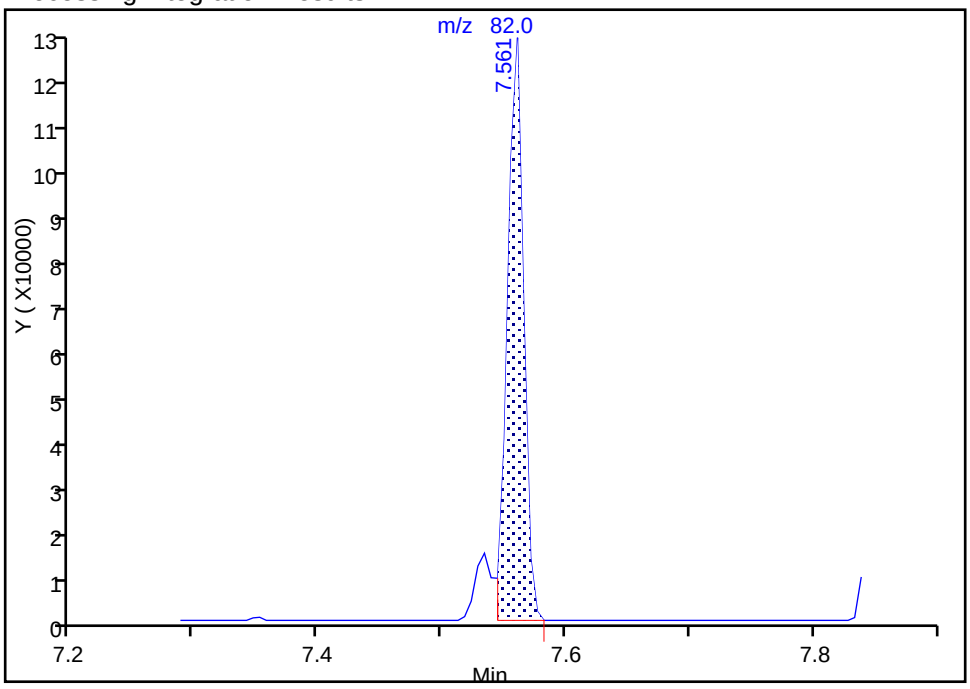
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Injection Date: 21-Jul-2017 13:12:30 Instrument ID: HP5973U
Lims ID: ICIS - List1 50
Client ID:
Operator ID: DR ALS Bottle#: 5 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: U-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

$ 9 Nitrobenzene-d5, CAS: 4165-60-0

Signal: 1

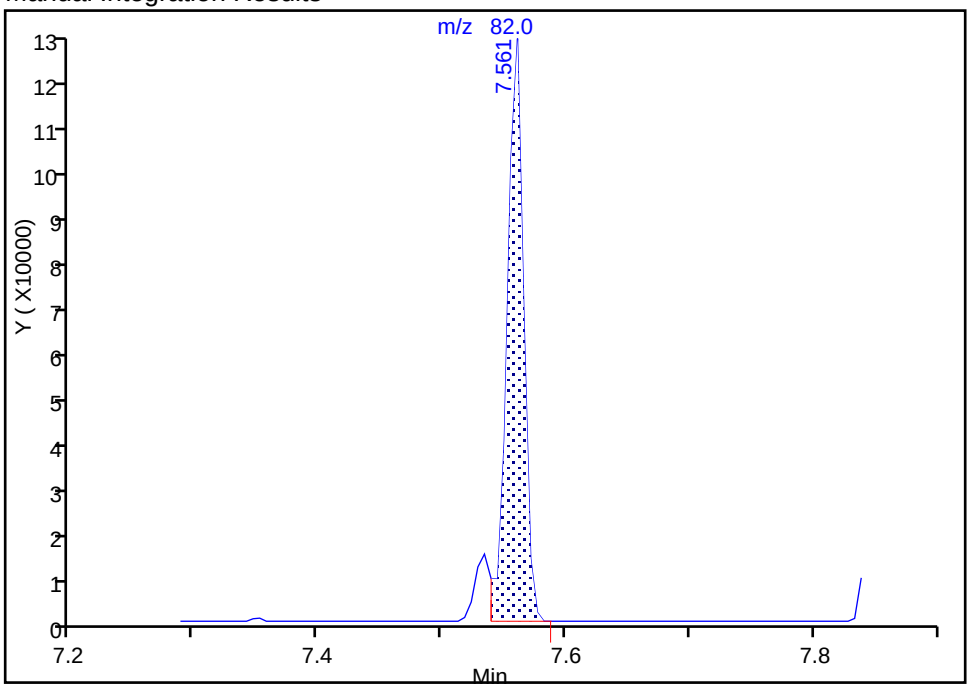
Processing Integration Results

RT: 7.56
Area: 108886
Amount: 42.115707
Amount Units: ng/uL



Manual Integration Results

RT: 7.56
Area: 111718
Amount: 42.999989
Amount Units: ng/uL



Reviewer: richardsd, 24-Jul-2017 09:37:46
Audit Action: Split an Integrated Peak Audit Reason: Peak Tail

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

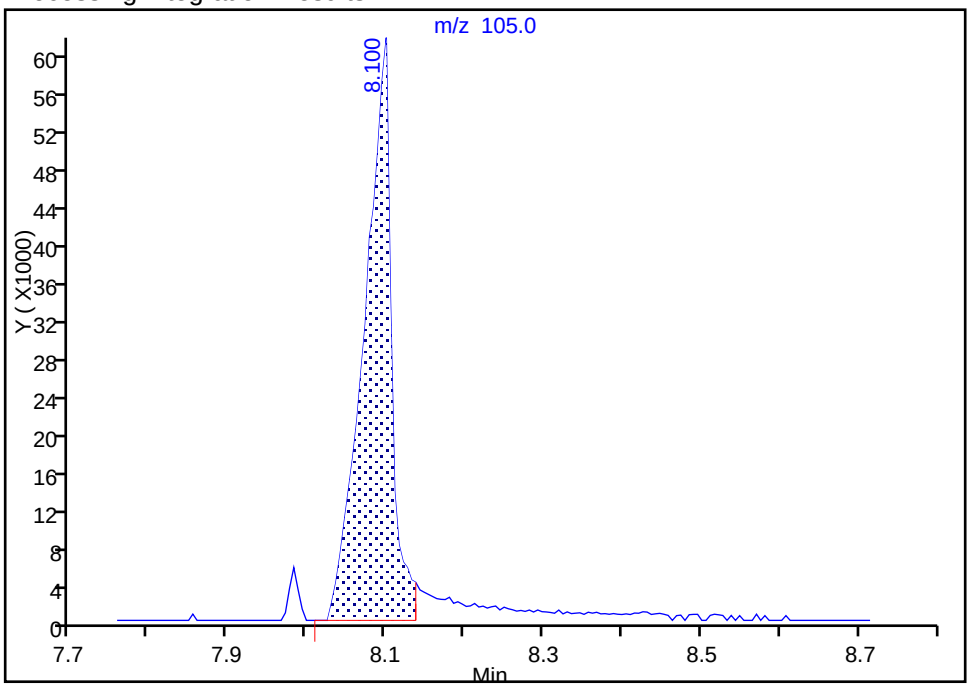
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Injection Date: 21-Jul-2017 13:12:30 Instrument ID: HP5973U
Lims ID: ICIS - List1 50
Client ID:
Operator ID: DR ALS Bottle#: 5 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: U-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

64 Benzoic acid, CAS: 65-85-0

Signal: 1

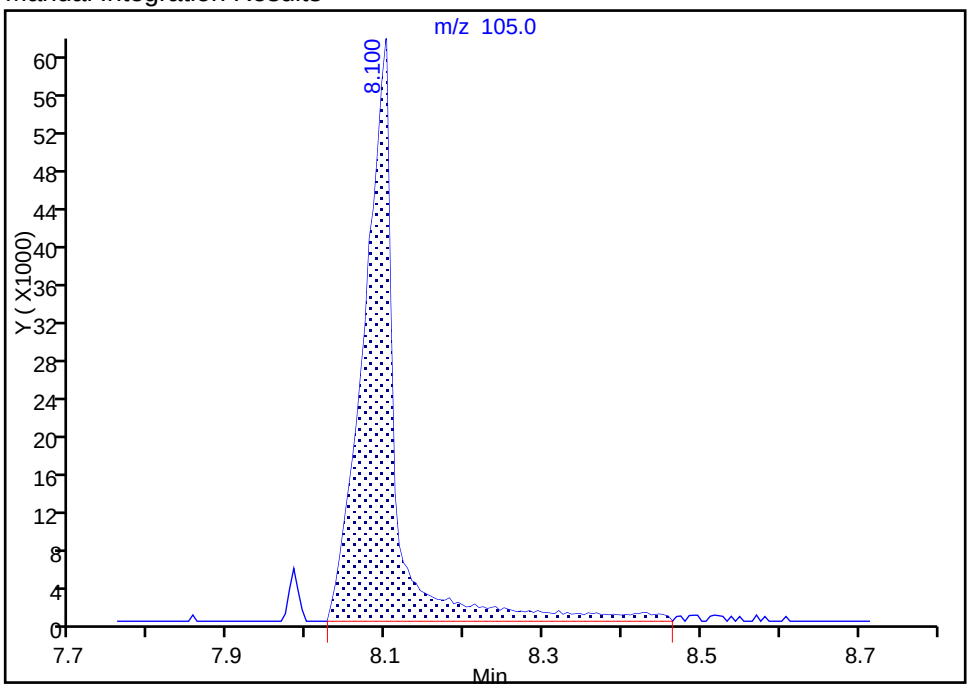
Processing Integration Results

RT: 8.10
Area: 147720
Amount: 129.2942
Amount Units: ng/uL



Manual Integration Results

RT: 8.10
Area: 170901
Amount: 132.4467
Amount Units: ng/uL



Reviewer: richardsd, 24-Jul-2017 09:54:31
Audit Action: Manually Integrated Audit Reason: Peak Tail

TestAmerica Buffalo

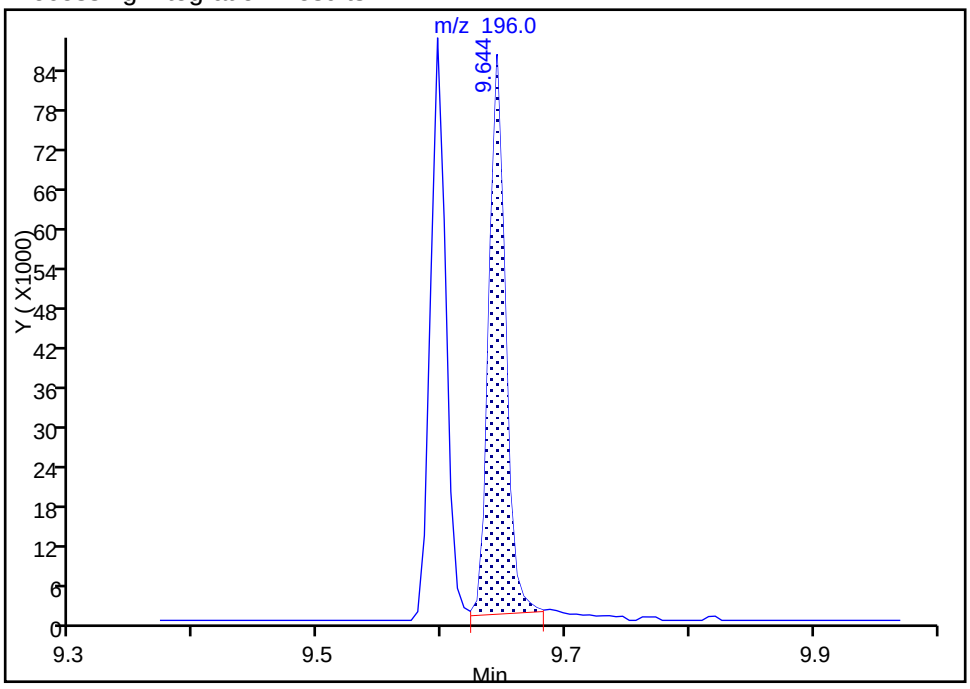
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Injection Date: 21-Jul-2017 13:12:30 Instrument ID: HP5973U
Lims ID: ICIS - List1 50
Client ID:
Operator ID: DR ALS Bottle#: 5 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: U-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

91 2,4,5-Trichlorophenol, CAS: 95-95-4

Signal: 1

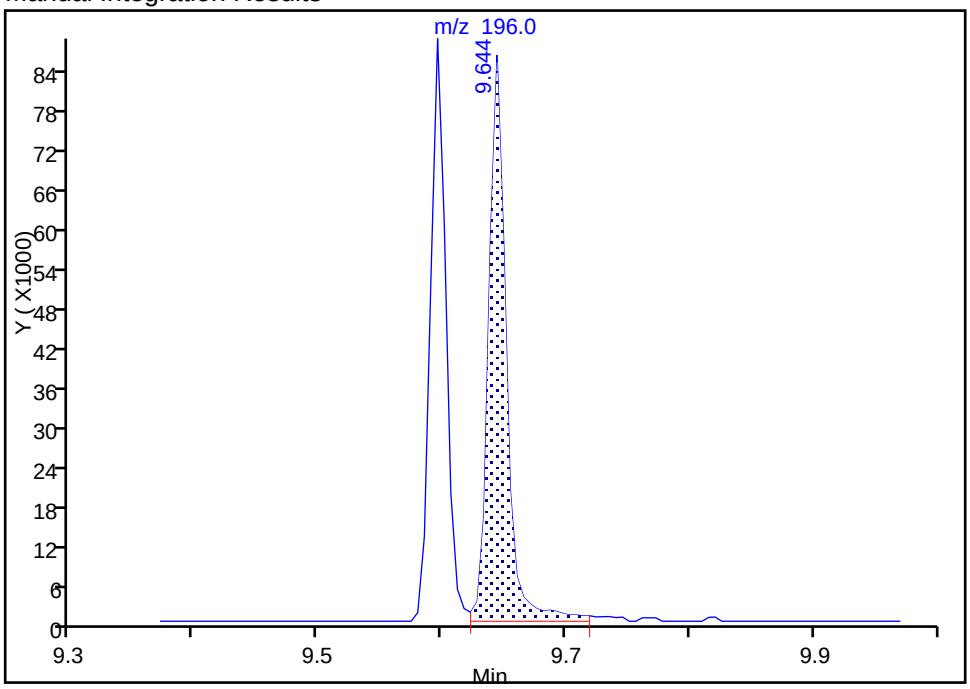
Processing Integration Results

RT: 9.64
Area: 78707
Amount: 44.306398
Amount Units: ng/uL



Manual Integration Results

RT: 9.64
Area: 85117
Amount: 47.261225
Amount Units: ng/uL



Reviewer: richardsd, 24-Jul-2017 09:33:54
Audit Action: Manually Integrated Audit Reason: Baseline

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20170721-64235.b\U326526.D
Lims ID: IC - List1 80
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 21-Jul-2017 13:39:30 ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 480-0064235-006
Operator ID: DR Instrument ID: HP5973U
Sublist: chrom-U-8270*sub56

Method: \\ChromNA\Buffalo\ChromData\HP5973U\20170721-64235.b\U-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 24-Jul-2017 11:19:47 Calib Date: 21-Jul-2017 22:04:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973U\20170721-64235.b\U326545.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK004

First Level Reviewer: richardsd Date: 24-Jul-2017 09:25:56

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	6.914	6.914	0.000	94	94561	40.0	40.0	
* 2 Naphthalene-d8	136	8.426	8.426	0.000	99	365254	40.0	40.0	
* 3 Acenaphthene-d10	164	10.478	10.478	0.000	97	175173	40.0	40.0	
* 4 Phenanthrene-d10	188	11.984	11.984	0.000	98	346875	40.0	40.0	
* 5 Chrysene-d12	240	14.383	14.383	0.000	97	426160	40.0	40.0	
* 6 Perylene-d12	264	15.980	15.980	0.000	97	448325	40.0	40.0	
$ 7 2-Fluorophenol	112	5.333	5.333	0.000	94	246545	80.0	83.0	
$ 8 Phenol-d5	99	6.439	6.439	0.000	99	310731	80.0	82.9	
$ 9 Nitrobenzene-d5	82	7.561	7.561	0.000	88	212947	80.0	78.7	
$ 10 2-Fluorobiphenyl	172	9.687	9.687	0.000	99	530143	80.0	80.5	
$ 11 2,4,6-Tribromophenol	330	11.300	11.300	0.000	91	94208	80.0	79.2	
$ 12 p-Terphenyl-d14	244	13.389	13.389	0.000	99	701037	80.0	81.4	
23 1,4-Dioxane	88	2.966	2.961	0.005	98	117558	80.0	79.9	
24 N-Nitrosodimethylamine	42	3.421	3.415	0.006	96	131517	80.0	81.1	
25 Pyridine	52	3.522	3.517	0.005	93	241900	80.0	81.2	
32 Benzaldehyde	77	6.386	6.386	0.000	95	150934	80.0	69.3	
33 Phenol	94	6.455	6.455	0.000	97	310316	80.0	82.3	
34 Aniline	93	6.514	6.514	0.000	97	392774	80.0	80.8	
35 Bis(2-chloroethyl)ether	93	6.562	6.562	0.000	96	254219	80.0	80.5	
37 2-Chlorophenol	128	6.669	6.669	0.000	97	260379	80.0	83.0	
38 n-Decane	57	6.701	6.701	0.000	91	319353	80.0	79.2	
39 1,3-Dichlorobenzene	146	6.856	6.856	0.000	98	290237	80.0	80.6	
40 1,4-Dichlorobenzene	146	6.936	6.936	0.000	95	295726	80.0	80.2	
41 Benzyl alcohol	108	7.053	7.053	0.000	94	167414	80.0	82.2	
42 1,2-Dichlorobenzene	146	7.128	7.128	0.000	98	277483	80.0	80.9	
43 2-Methylphenol	108	7.176	7.176	0.000	95	230122	80.0	82.5	
44 2,2'-oxybis[1-chloropropan	45	7.208	7.208	0.000	95	375496	80.0	79.2	
45 Indene	115	7.230	7.230	0.000	90	1288371	240.0	235.1	
46 4-Methylphenol	108	7.352	7.352	0.000	96	240228	80.0	82.9	
47 N-Nitrosodi-n-propylamine	70	7.358	7.358	0.000	87	184226	80.0	83.1	
49 Acetophenone	105	7.374	7.374	0.000	97	344275	80.0	81.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
53 Hexachloroethane	117	7.534	7.534	0.000	95	102368	80.0	82.0	
54 Nitrobenzene	77	7.582	7.582	0.000	87	226011	80.0	81.3	
56 Isophorone	82	7.855	7.855	0.000	99	468134	80.0	82.3	
59 2-Nitrophenol	139	7.961	7.962	-0.001	92	94560	80.0	75.9	
60 2,4-Dimethylphenol	107	7.983	7.983	0.000	92	239526	80.0	84.2	
62 Bis(2-chloroethoxy)methane	93	8.084	8.084	0.000	98	282091	80.0	81.4	
64 Benzoic acid	105	8.122	8.100	0.022	87	363418	240.0	231.0	M
67 2,4-Dichlorophenol	162	8.250	8.250	0.000	93	204724	80.0	82.0	
68 1,2,4-Trichlorobenzene	180	8.357	8.357	0.000	95	225390	80.0	80.9	
70 Naphthalene	128	8.453	8.453	0.000	97	727593	80.0	80.0	
72 4-Chloroaniline	127	8.490	8.490	0.000	97	318833	80.0	83.0	
73 2,6-Dichlorophenol	162	8.512	8.512	0.000	98	200744	80.0	81.6	
74 Hexachlorobutadiene	225	8.597	8.597	0.000	96	129327	80.0	81.7	
76 Caprolactam	113	8.891	8.875	0.016	80	78022	80.0	81.6	
80 4-Chloro-3-methylphenol	107	9.051	9.051	0.000	95	203660	80.0	82.1	
83 2-Methylnaphthalene	142	9.270	9.270	0.000	92	501011	80.0	81.6	
85 1-Methylnaphthalene	142	9.393	9.388	0.005	93	464229	80.0	81.1	
86 Hexachlorocyclopentadiene	237	9.468	9.468	0.000	94	124627	80.0	78.5	
87 1,2,4,5-Tetrachlorobenzene	216	9.479	9.473	0.006	97	222873	80.0	81.6	
89 2,4,6-Trichlorophenol	196	9.596	9.596	0.000	91	137999	80.0	80.0	
91 2,4,5-Trichlorophenol	196	9.644	9.644	0.000	96	150161	80.0	81.2	
94 1,1'-Biphenyl	154	9.810	9.810	0.000	96	589594	80.0	79.8	
95 2-Chloronaphthalene	162	9.847	9.847	0.000	96	455663	80.0	81.0	
98 2-Nitroaniline	65	9.943	9.943	0.000	88	95357	80.0	76.9	
102 Dimethyl phthalate	163	10.130	10.130	0.000	99	507277	80.0	81.5	
103 1,3-Dinitrobenzene	168	10.173	10.173	0.000	90	50994	80.0	73.1	
104 2,6-Dinitrotoluene	165	10.205	10.205	0.000	96	92396	80.0	76.9	
105 Acenaphthylene	152	10.323	10.323	0.000	98	679145	80.0	80.9	
106 3-Nitroaniline	138	10.403	10.398	0.005	96	113139	80.0	78.9	
108 Acenaphthene	153	10.515	10.515	0.000	94	466588	80.0	80.1	
107 2,4-Dinitrophenol	184	10.515	10.515	0.000	84	70448	160.0	144.9	
109 4-Nitrophenol	109	10.569	10.563	0.005	88	112612	160.0	163.6	
111 2,4-Dinitrotoluene	165	10.654	10.649	0.005	95	115297	80.0	76.6	
112 Dibenzofuran	168	10.697	10.697	0.000	96	638845	80.0	79.4	
116 2,3,4,6-Tetrachlorophenol	232	10.825	10.825	0.000	72	113922	80.0	79.2	
118 Diethyl phthalate	149	10.889	10.889	0.000	99	510246	80.0	83.5	
119 Hexadecane	57	10.900	10.900	0.000	92	341998	80.0	79.1	
121 4-Chlorophenyl phenyl ethe	204	11.033	11.033	0.000	90	257039	80.0	80.1	
122 4-Nitroaniline	138	11.055	11.049	0.006	90	132322	80.0	80.4	
123 Fluorene	166	11.055	11.055	0.000	93	529562	80.0	80.0	
125 4,6-Dinitro-2-methylphenol	198	11.092	11.087	0.005	92	112640	160.0	148.1	
127 N-Nitrosodiphenylamine	169	11.151	11.145	0.006	63	395632	80.0	81.6	
128 Diphenylamine	169	11.151	11.145	0.006	94	395632	68.4	69.8	
129 1,2-Diphenylhydrazine	77	11.199	11.194	0.005	99	496028	80.0	80.2	
130 Azobenzene	77	11.199	11.194	0.005	97	496028	80.0	80.2	
137 4-Bromophenyl phenyl ether	248	11.525	11.525	0.000	65	165756	80.0	82.4	
139 Hexachlorobenzene	284	11.626	11.626	0.000	96	191526	80.0	81.0	
141 Atrazine	200	11.653	11.648	0.005	94	145811	80.0	82.1	
143 Pentachlorophenol	266	11.803	11.803	0.000	76	175198	160.0	158.5	
144 n-Octadecane	57	11.803	11.803	0.000	95	336771	80.0	78.2	
150 Phenanthrene	178	12.006	12.006	0.000	98	756114	80.0	79.2	
151 Anthracene	178	12.059	12.054	0.005	97	804549	80.0	80.6	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
152 Carbazole	167	12.187	12.187	0.000	98	717837	80.0	81.3	
155 Di-n-butyl phthalate	149	12.449	12.449	0.000	100	837399	80.0	82.2	
162 Fluoranthene	202	13.095	13.095	0.000	99	843867	80.0	81.3	
164 Benzidine	184	13.170	13.170	0.000	99	435030	80.0	86.8	
165 Pyrene	202	13.304	13.304	0.000	96	888819	80.0	79.6	
172 Butyl benzyl phthalate	149	13.785	13.785	0.000	97	353370	80.0	80.5	
178 Bis(2-ethylhexyl) phthalat	149	14.260	14.260	0.000	96	491734	80.0	79.9	
179 3,3'-Dichlorobenzidine	252	14.303	14.303	0.000	73	361728	80.0	80.8	
181 Benzo[a]anthracene	228	14.372	14.372	0.000	98	942238	80.0	80.0	
182 Chrysene	228	14.410	14.410	0.000	97	903351	80.0	79.1	
183 Di-n-octyl phthalate	149	14.858	14.858	0.000	99	834022	80.0	80.0	
185 Benzo[b]fluoranthene	252	15.499	15.499	0.000	97	1040111	80.0	82.1	
187 Benzo[k]fluoranthene	252	15.531	15.526	0.005	98	1076403	80.0	79.5	
190 Benzo[a]pyrene	252	15.916	15.911	0.005	78	995126	80.0	81.4	
193 Dibenz(a,h)anthracene	278	17.588	17.583	0.005	91	1109592	80.0	83.5	
194 Indeno[1,2,3-cd]pyrene	276	17.599	17.588	0.011	97	1321942	80.0	83.7	
195 Benzo[g,h,i]perylene	276	18.101	18.090	0.011	97	1124334	80.0	84.4	
S 256 3-Methylphenol	1				0			82.9	
S 254 Total Cresols	1				0			165.4	
S 257 3 & 4 Methylphenol	108				0			82.9	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

MB_LIST1_WRK_00477	Amount Added: 1.00	Units: mL	
MB_INTSTD_STK_00036	Amount Added: 20.00	Units: uL	Run Reagent

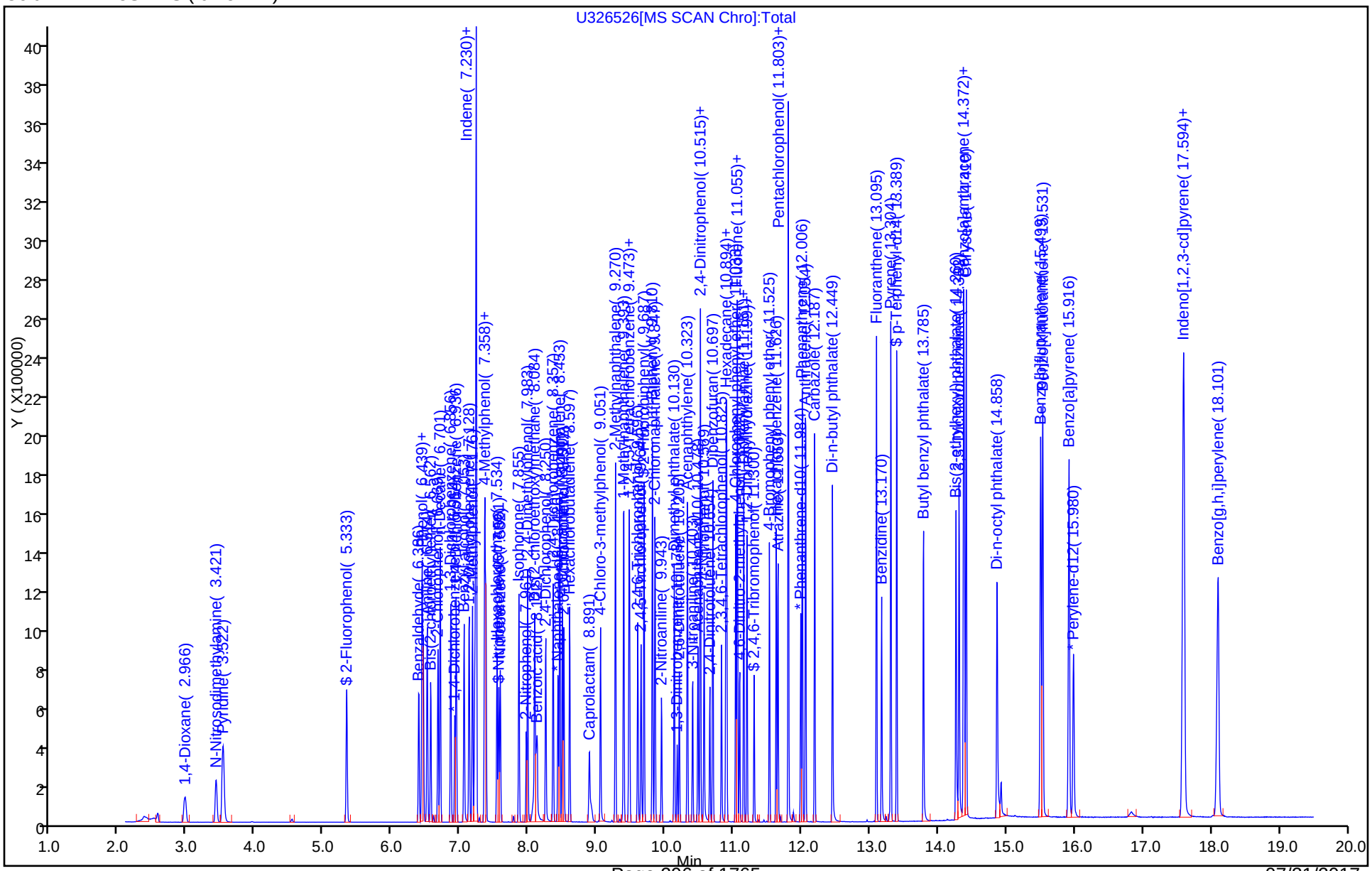
Report Date: 24-Jul-2017 11:19:48 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20170721-64235.b\U326526.D

Injection Date:	21-Jul-2017 13:39:30	Instrument ID:	HP5973U	Operator ID:	DR
Lims ID:	IC - List1 80			Worklist Smp#:	6
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	U-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

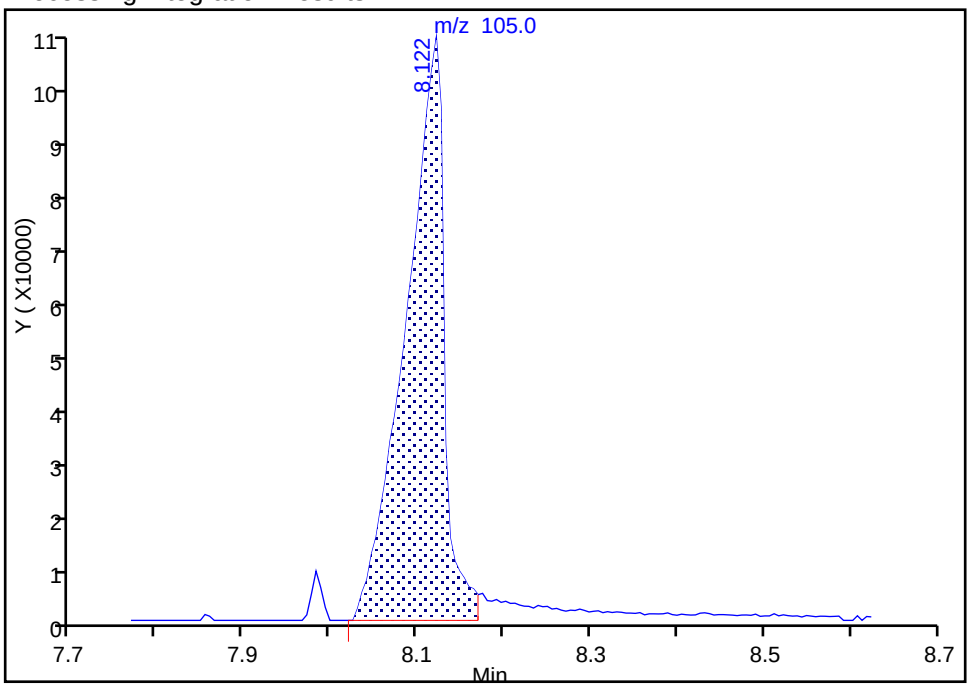
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Injection Date: 21-Jul-2017 13:39:30 Instrument ID: HP5973U
Lims ID: IC - List1 80
Client ID:
Operator ID: DR ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: U-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

64 Benzoic acid, CAS: 65-85-0

Signal: 1

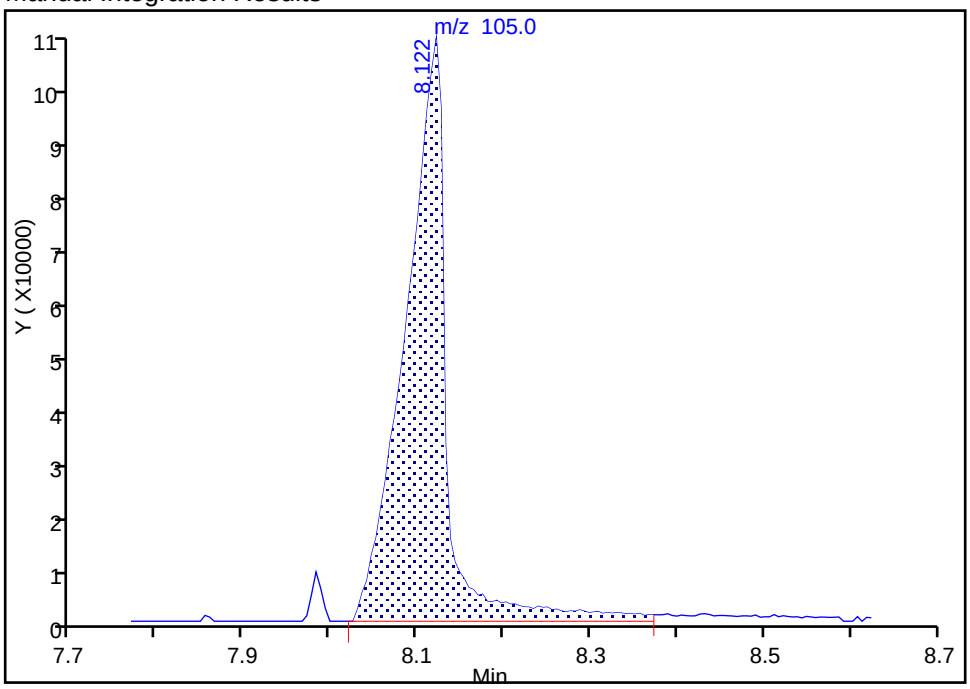
Processing Integration Results

RT: 8.12
Area: 335947
Amount: 298.2309
Amount Units: ng/uL



Manual Integration Results

RT: 8.12
Area: 363418
Amount: 230.9815
Amount Units: ng/uL



Reviewer: richardsd, 24-Jul-2017 09:53:20
Audit Action: Manually Integrated Audit Reason: Peak Tail

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20170721-64235.b\U326527.D
Lims ID: IC - List1 100
Client ID:
Sample Type: IC
Calib Level: 5
Inject. Date: 21-Jul-2017 14:05:30
ALS Bottle#: 7
Worklist Smp#: 7
Injection Vol: 1.0 ul
Dil. Factor: 1.0000
Sample Info: 480-0064235-007
Operator ID: DR
Instrument ID: HP5973U
Sublist: chrom-U-8270*sub56

Method: \\ChromNA\Buffalo\ChromData\HP5973U\20170721-64235.b\U-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 24-Jul-2017 11:19:50
Calib Date: 21-Jul-2017 22:04:30
Integrator: RTE
ID Type: Deconvolution ID
Quant Method: Internal Standard
Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973U\20170721-64235.b\U326545.D

Column 1 : RXI-5Sil MS (0.25 mm)
Det: MS SCAN
Process Host: XAWRK004

First Level Reviewer: richardsd
Date: 24-Jul-2017 09:26:30

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
*	1 1,4-Dichlorobenzene-d4	152	6.915	6.914	0.000	93	94011	40.0	40.0	
*	2 Naphthalene-d8	136	8.426	8.426	0.000	99	365823	40.0	40.0	
*	3 Acenaphthene-d10	164	10.478	10.478	0.000	98	175000	40.0	40.0	
*	4 Phenanthrene-d10	188	11.984	11.984	0.000	95	345407	40.0	40.0	
*	5 Chrysene-d12	240	14.383	14.383	0.000	97	427459	40.0	40.0	
*	6 Perylene-d12	264	15.980	15.980	0.000	97	454979	40.0	40.0	
$	7 2-Fluorophenol	112	5.333	5.333	0.000	93	307908	100.0	104.2	
$	8 Phenol-d5	99	6.439	6.439	0.000	99	382695	100.0	102.6	
$	9 Nitrobenzene-d5	82	7.561	7.561	0.000	87	286988	100.0	104.7	
$	10 2-Fluorobiphenyl	172	9.687	9.687	0.000	99	662298	100.0	100.7	
$	11 2,4,6-Tribromophenol	330	11.300	11.300	0.000	92	123803	100.0	103.3	
$	12 p-Terphenyl-d14	244	13.389	13.389	0.000	99	846186	100.0	97.9	
	23 1,4-Dioxane	88	2.961	2.961	0.000	98	143199	100.0	97.9	
	24 N-Nitrosodimethylamine	42	3.415	3.415	0.000	96	159083	100.0	98.7	
	25 Pyridine	52	3.517	3.517	0.000	94	292457	100.0	98.7	
	32 Benzaldehyde	77	6.386	6.386	0.000	94	164035	100.0	75.7	
	33 Phenol	94	6.455	6.455	0.000	97	387012	100.0	103.2	
	34 Aniline	93	6.514	6.514	0.000	97	485496	100.0	100.4	
	35 Bis(2-chloroethyl)ether	93	6.562	6.562	0.000	96	308871	100.0	98.4	
	37 2-Chlorophenol	128	6.669	6.669	0.000	97	324869	100.0	104.1	
	38 n-Decane	57	6.701	6.701	0.000	91	382786	100.0	95.5	
	39 1,3-Dichlorobenzene	146	6.856	6.856	0.000	98	362985	100.0	101.3	
	40 1,4-Dichlorobenzene	146	6.936	6.936	0.000	95	367461	100.0	100.3	
	41 Benzyl alcohol	108	7.053	7.053	0.000	95	206716	100.0	101.8	
	42 1,2-Dichlorobenzene	146	7.128	7.128	0.000	98	344136	100.0	100.9	
	43 2-Methylphenol	108	7.176	7.176	0.000	95	286983	100.0	103.4	
	44 2,2'-oxybis[1-chloropropan	45	7.214	7.208	0.006	96	452257	100.0	95.9	
	45 Indene	115	7.230	7.230	0.000	90	1555169	300.0	285.4	
	46 4-Methylphenol	108	7.353	7.352	0.001	97	303988	100.0	105.5	
	47 N-Nitrosodi-n-propylamine	70	7.358	7.358	0.000	88	224381	100.0	101.8	
	49 Acetophenone	105	7.374	7.374	0.000	96	422677	100.0	100.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
53 Hexachloroethane	117	7.534	7.534	0.000	95	129099	100.0	104.1	
54 Nitrobenzene	77	7.582	7.582	0.000	87	291825	100.0	103.9	
56 Isophorone	82	7.855	7.855	0.000	98	573860	100.0	100.7	
59 2-Nitrophenol	139	7.962	7.962	0.000	91	134204	100.0	105.6	
60 2,4-Dimethylphenol	107	7.983	7.983	0.000	91	292752	100.0	102.8	
62 Bis(2-chloroethoxy)methane	93	8.090	8.084	0.006	99	345288	100.0	99.5	
64 Benzoic acid	105	8.133	8.100	0.033	87	507266	300.0	304.4	M
67 2,4-Dichlorophenol	162	8.250	8.250	0.000	93	254029	100.0	101.2	
68 1,2,4-Trichlorobenzene	180	8.357	8.357	0.000	95	280303	100.0	100.4	
70 Naphthalene	128	8.453	8.453	0.000	98	900779	100.0	98.8	
72 4-Chloroaniline	127	8.490	8.490	0.000	97	396177	100.0	102.9	
73 2,6-Dichlorophenol	162	8.517	8.512	0.005	98	249965	100.0	101.1	
74 Hexachlorobutadiene	225	8.597	8.597	0.000	96	161716	100.0	102.0	
76 Caprolactam	113	8.896	8.875	0.021	80	98568	100.0	102.2	
80 4-Chloro-3-methylphenol	107	9.051	9.051	0.000	95	251473	100.0	100.9	
83 2-Methylnaphthalene	142	9.270	9.270	0.000	92	619014	100.0	100.7	
85 1-Methylnaphthalene	142	9.393	9.388	0.005	93	567235	100.0	99.0	
86 Hexachlorocyclopentadiene	237	9.468	9.468	0.000	95	166234	100.0	103.5	
87 1,2,4,5-Tetrachlorobenzene	216	9.479	9.473	0.006	97	279497	100.0	102.4	
89 2,4,6-Trichlorophenol	196	9.596	9.596	0.000	91	176965	100.0	102.1	
91 2,4,5-Trichlorophenol	196	9.644	9.644	0.000	95	189382	100.0	101.9	
94 1,1'-Biphenyl	154	9.810	9.810	0.000	96	731742	100.0	99.1	
95 2-Chloronaphthalene	162	9.853	9.847	0.006	96	557402	100.0	99.1	
98 2-Nitroaniline	65	9.944	9.943	0.001	88	133384	100.0	105.4	
102 Dimethyl phthalate	163	10.131	10.130	0.001	99	631214	100.0	101.5	
103 1,3-Dinitrobenzene	168	10.179	10.173	0.006	94	76302	100.0	106.3	
104 2,6-Dinitrotoluene	165	10.205	10.205	0.000	97	129853	100.0	106.0	
105 Acenaphthylene	152	10.323	10.323	0.000	98	837400	100.0	99.8	
106 3-Nitroaniline	138	10.403	10.398	0.005	96	152618	100.0	104.8	
107 2,4-Dinitrophenol	184	10.521	10.515	0.006	83	106236	200.0	212.0	
108 Acenaphthene	153	10.515	10.515	0.000	94	574815	100.0	98.8	
109 4-Nitrophenol	109	10.574	10.563	0.011	85	143585	200.0	206.1	
111 2,4-Dinitrotoluene	165	10.654	10.649	0.005	95	163428	100.0	106.3	
112 Dibenzofuran	168	10.697	10.697	0.000	96	796238	100.0	99.1	
116 2,3,4,6-Tetrachlorophenol	232	10.825	10.825	0.000	72	150143	100.0	103.3	
118 Diethyl phthalate	149	10.889	10.889	0.000	99	628692	100.0	103.0	
119 Hexadecane	57	10.900	10.900	0.000	92	413769	100.0	95.7	
121 4-Chlorophenyl phenyl ethe	204	11.033	11.033	0.000	90	324876	100.0	101.3	
122 4-Nitroaniline	138	11.055	11.049	0.006	89	171526	100.0	103.0	
123 Fluorene	166	11.060	11.055	0.005	94	659510	100.0	99.7	
125 4,6-Dinitro-2-methylphenol	198	11.092	11.087	0.005	91	166931	200.0	214.5	
128 Diphenylamine	169	11.151	11.145	0.006	93	491245	85.5	87.0	
127 N-Nitrosodiphenylamine	169	11.151	11.145	0.006	63	491245	100.0	101.8	
130 Azobenzene	77	11.199	11.194	0.005	97	609258	100.0	98.9	
129 1,2-Diphenylhydrazine	77	11.199	11.194	0.005	99	609258	100.0	98.9	
137 4-Bromophenyl phenyl ether	248	11.525	11.525	0.000	63	206218	100.0	103.0	
139 Hexachlorobenzene	284	11.626	11.626	0.000	96	242886	100.0	103.2	
141 Atrazine	200	11.653	11.648	0.005	94	178706	100.0	100.4	
144 n-Octadecane	57	11.803	11.803	0.000	95	405481	100.0	94.6	
143 Pentachlorophenol	266	11.803	11.803	0.000	77	232200	200.0	207.9	
150 Phenanthrene	178	12.011	12.006	0.005	97	929729	100.0	97.8	
151 Anthracene	178	12.059	12.054	0.005	97	981020	100.0	98.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
152 Carbazole	167	12.187	12.187	0.000	98	871985	100.0	99.1	
155 Di-n-butyl phthalate	149	12.449	12.449	0.000	100	1026448	100.0	100.8	
162 Fluoranthene	202	13.095	13.095	0.000	99	1020937	100.0	98.8	
164 Benzidine	184	13.170	13.170	0.000	99	500595	100.0	99.5	
165 Pyrene	202	13.304	13.304	0.000	96	1081874	100.0	96.6	
172 Butyl benzyl phthalate	149	13.785	13.785	0.000	97	452653	100.0	101.7	
178 Bis(2-ethylhexyl) phthalat	149	14.260	14.260	0.000	96	623287	100.0	100.0	
179 3,3'-Dichlorobenzidine	252	14.303	14.303	0.000	73	451612	100.0	100.1	
181 Benzo[a]anthracene	228	14.372	14.372	0.000	98	1152279	100.0	97.6	
182 Chrysene	228	14.410	14.410	0.000	97	1105150	100.0	96.4	
183 Di-n-octyl phthalate	149	14.858	14.858	0.000	99	1063504	100.0	100.5	
185 Benzo[b]fluoranthene	252	15.499	15.499	0.000	97	1307099	100.0	101.6	
187 Benzo[k]fluoranthene	252	15.532	15.526	0.006	98	1338050	100.0	97.4	
190 Benzo[a]pyrene	252	15.916	15.911	0.005	78	1254094	100.0	101.1	
193 Dibenz(a,h)anthracene	278	17.594	17.583	0.011	94	1422657	100.0	105.5	
194 Indeno[1,2,3-cd]pyrene	276	17.604	17.588	0.016	97	1680850	100.0	104.9	
195 Benzo[g,h,i]perylene	276	18.101	18.090	0.011	97	1424975	100.0	105.4	
S 254 Total Cresols	1				0			209.0	
S 257 3 & 4 Methylphenol	108				0			105.5	
S 256 3-Methylphenol	1				0			105.5	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

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MB_INTSTD_STK_00036	Amount Added: 20.00	Units: uL	Run Reagent

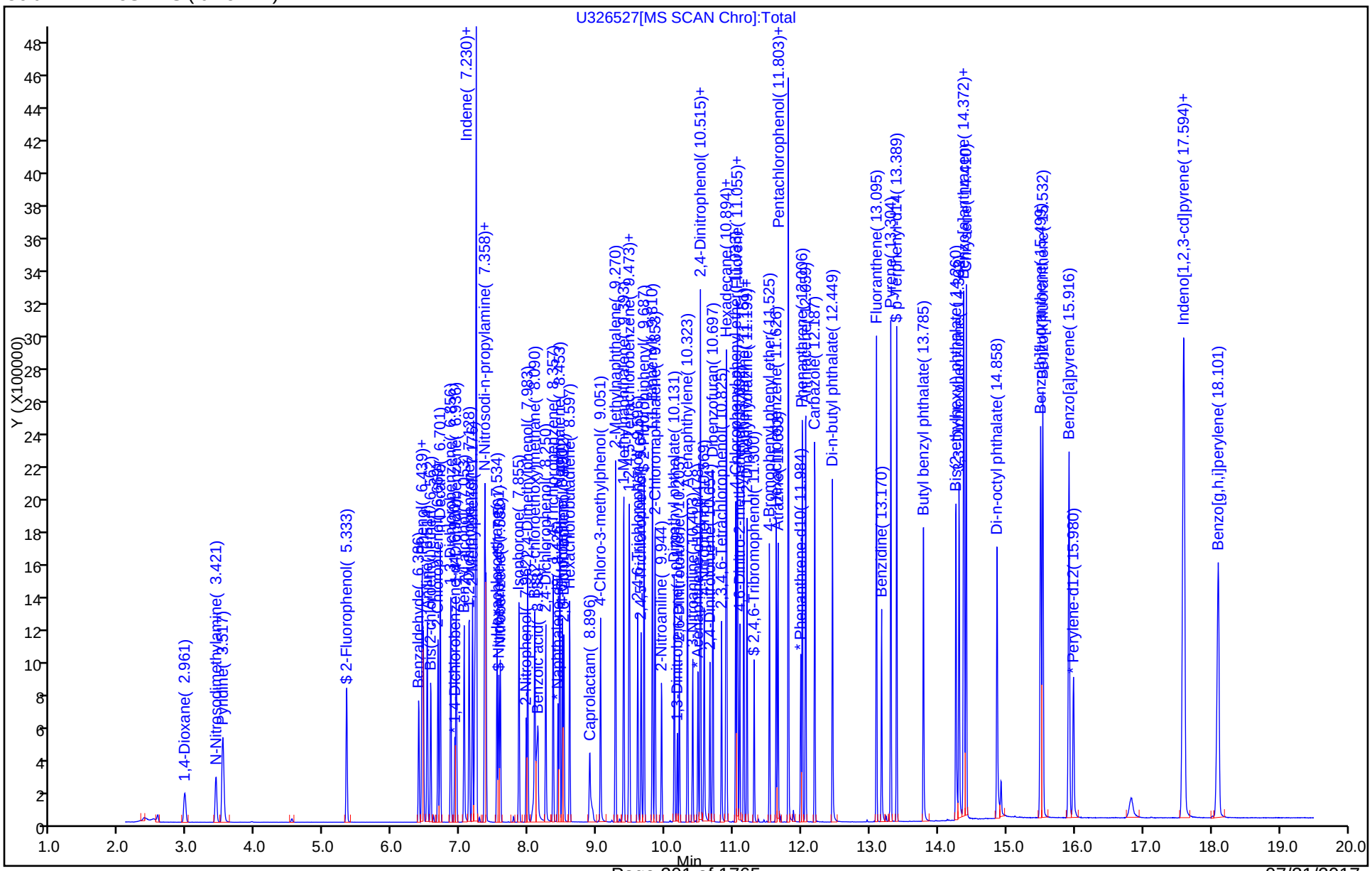
Report Date: 24-Jul-2017 11:19:51 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20170721-64235.b\U326527.D

Injection Date:	21-Jul-2017 14:05:30	Instrument ID:	HP5973U	Operator ID:	DR
Lims ID:	IC - List1 100			Worklist Smp#:	7
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	U-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

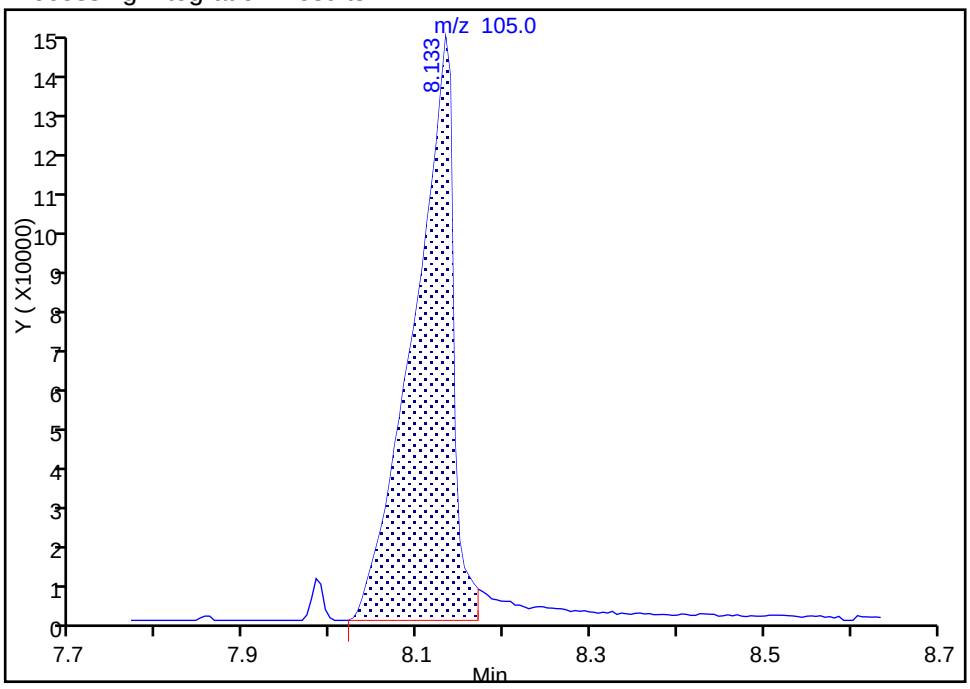
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Injection Date: 21-Jul-2017 14:05:30 Instrument ID: HP5973U
Lims ID: IC - List1 100
Client ID:
Operator ID: DR ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: U-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

64 Benzoic acid, CAS: 65-85-0

Signal: 1

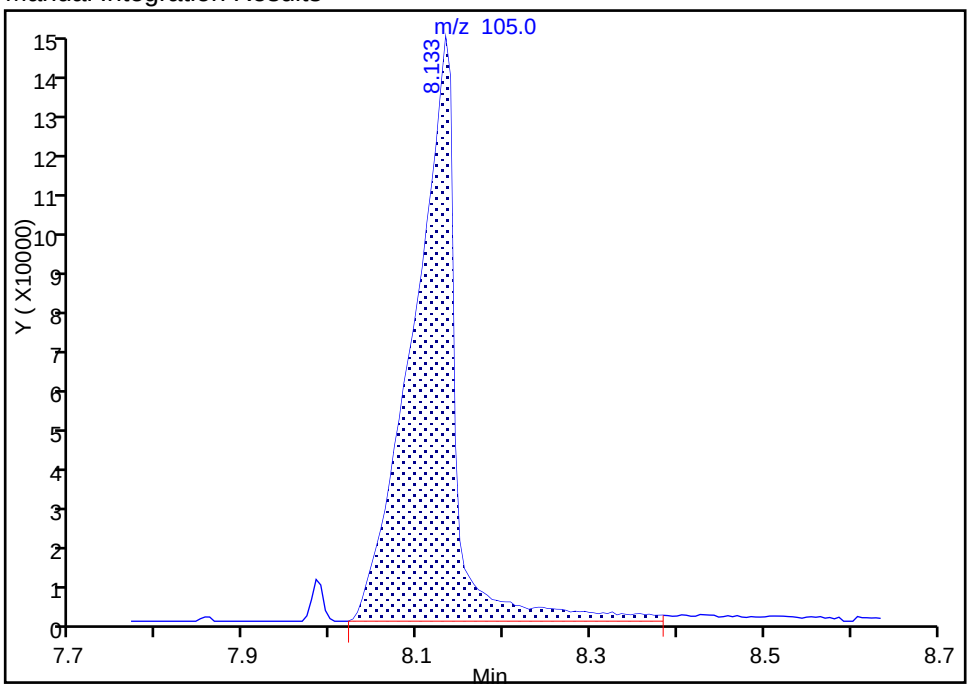
Processing Integration Results

RT: 8.13
Area: 470009
Amount: 298.2159
Amount Units: ng/uL



Manual Integration Results

RT: 8.13
Area: 507266
Amount: 304.3755
Amount Units: ng/uL



Reviewer: richardsd, 24-Jul-2017 09:52:59
Audit Action: Manually Integrated Audit Reason: Peak Tail

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20170721-64235.b\U326528.D
Lims ID: IC - List1 120
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 21-Jul-2017 14:32:30 ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 480-0064235-008
Operator ID: DR Instrument ID: HP5973U
Sublist: chrom-U-8270*sub56

Method: \\ChromNA\Buffalo\ChromData\HP5973U\20170721-64235.b\U-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 24-Jul-2017 11:19:54 Calib Date: 21-Jul-2017 22:04:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973U\20170721-64235.b\U326545.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK004

First Level Reviewer: richardsd Date: 24-Jul-2017 09:26:57

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.915	6.914	0.001	94	94811	40.0	40.0	
* 2 Naphthalene-d8	136	8.426	8.426	0.000	99	364403	40.0	40.0	
* 3 Acenaphthene-d10	164	10.478	10.478	0.000	98	172546	40.0	40.0	
* 4 Phenanthrene-d10	188	11.984	11.984	0.000	95	343637	40.0	40.0	
* 5 Chrysene-d12	240	14.383	14.383	0.000	97	412866	40.0	40.0	
* 6 Perylene-d12	264	15.980	15.980	0.000	97	453127	40.0	40.0	
$ 7 2-Fluorophenol	112	5.328	5.333	-0.005	93	362818	120.0	121.8	
$ 8 Phenol-d5	99	6.439	6.439	0.000	99	448077	120.0	119.2	
$ 9 Nitrobenzene-d5	82	7.561	7.561	0.000	87	345585	120.0	125.8	
$ 10 2-Fluorobiphenyl	172	9.687	9.687	0.000	99	768647	120.0	118.5	
$ 11 2,4,6-Tribromophenol	330	11.306	11.300	0.006	91	150872	120.0	125.6	
$ 12 p-Terphenyl-d14	244	13.389	13.389	0.000	99	980459	120.0	117.5	
23 1,4-Dioxane	88	2.951	2.961	-0.010	98	169404	120.0	114.8	
24 N-Nitrosodimethylamine	42	3.410	3.415	-0.005	96	184951	120.0	113.8	
25 Pyridine	52	3.512	3.517	-0.005	94	340977	120.0	114.1	
32 Benzaldehyde	77	6.386	6.386	0.000	95	171920	120.0	78.7	
33 Phenol	94	6.455	6.455	0.000	98	450077	120.0	119.0	
34 Aniline	93	6.514	6.514	0.000	97	564829	120.0	115.8	
35 Bis(2-chloroethyl)ether	93	6.562	6.562	0.000	96	361451	120.0	114.2	
37 2-Chlorophenol	128	6.669	6.669	0.000	97	381925	120.0	121.4	
38 n-Decane	57	6.701	6.701	0.000	91	445331	120.0	110.1	
39 1,3-Dichlorobenzene	146	6.856	6.856	0.000	98	420631	120.0	116.4	
40 1,4-Dichlorobenzene	146	6.936	6.936	0.000	94	433210	120.0	117.2	
41 Benzyl alcohol	108	7.053	7.053	0.000	95	240278	120.0	117.1	
42 1,2-Dichlorobenzene	146	7.128	7.128	0.000	98	399120	120.0	116.0	
43 2-Methylphenol	108	7.176	7.176	0.000	95	334123	120.0	119.4	
44 2,2'-oxybis[1-chloropropan	45	7.214	7.208	0.006	95	514578	120.0	108.2	
45 Indene	115	7.230	7.230	0.000	89	1791467	360.0	326.0	
46 4-Methylphenol	108	7.353	7.352	0.001	97	353311	120.0	121.6	
47 N-Nitrosodi-n-propylamine	70	7.358	7.358	0.000	87	263859	120.0	118.7	
49 Acetophenone	105	7.374	7.374	0.000	96	486868	120.0	114.6	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
53 Hexachloroethane	117	7.534	7.534	0.000	95	151173	120.0	120.8	
54 Nitrobenzene	77	7.582	7.582	0.000	86	344265	120.0	122.4	
56 Isophorone	82	7.855	7.855	0.000	98	659246	120.0	116.2	
59 2-Nitrophenol	139	7.967	7.962	0.005	88	170090	120.0	133.1	
60 2,4-Dimethylphenol	107	7.983	7.983	0.000	91	343187	120.0	121.0	
62 Bis(2-chloroethoxy)methane	93	8.090	8.084	0.006	99	397649	120.0	115.0	
64 Benzoic acid	105	8.143	8.100	0.043	87	645660	360.0	376.6	M
67 2,4-Dichlorophenol	162	8.250	8.250	0.000	93	301686	120.0	120.4	
68 1,2,4-Trichlorobenzene	180	8.357	8.357	0.000	94	332863	120.0	119.7	
70 Naphthalene	128	8.453	8.453	0.000	98	1038776	120.0	114.4	
72 4-Chloroaniline	127	8.496	8.490	0.006	97	460304	120.0	120.0	
73 2,6-Dichlorophenol	162	8.517	8.512	0.005	99	296610	120.0	120.2	
74 Hexachlorobutadiene	225	8.597	8.597	0.000	95	190759	120.0	120.8	
76 Caprolactam	113	8.902	8.875	0.027	80	116010	120.0	120.2	
80 4-Chloro-3-methylphenol	107	9.051	9.051	0.000	95	296951	120.0	119.2	
83 2-Methylnaphthalene	142	9.270	9.270	0.000	92	718842	120.0	117.4	
85 1-Methylnaphthalene	142	9.393	9.388	0.005	93	668066	120.0	117.0	
86 Hexachlorocyclopentadiene	237	9.468	9.468	0.000	95	203748	120.0	127.7	
87 1,2,4,5-Tetrachlorobenzene	216	9.479	9.473	0.006	97	327588	120.0	121.8	
89 2,4,6-Trichlorophenol	196	9.596	9.596	0.000	91	210071	120.0	122.4	
91 2,4,5-Trichlorophenol	196	9.644	9.644	0.000	96	221127	120.0	120.2	
94 1,1'-Biphenyl	154	9.815	9.810	0.005	96	847222	120.0	116.4	
95 2-Chloronaphthalene	162	9.853	9.847	0.006	96	658857	120.0	118.8	
98 2-Nitroaniline	65	9.944	9.943	0.001	88	166634	120.0	132.1	
102 Dimethyl phthalate	163	10.136	10.130	0.006	100	735100	120.0	119.9	
103 1,3-Dinitrobenzene	168	10.179	10.173	0.006	93	100545	120.0	138.6	
104 2,6-Dinitrotoluene	165	10.205	10.205	0.000	96	161680	120.0	132.3	
105 Acenaphthylene	152	10.323	10.323	0.000	98	965141	120.0	116.7	
106 3-Nitroaniline	138	10.403	10.398	0.005	96	187835	120.0	129.5	
108 Acenaphthene	153	10.515	10.515	0.000	95	661011	120.0	115.2	
107 2,4-Dinitrophenol	184	10.521	10.515	0.006	83	141035	240.0	280.8	
109 4-Nitrophenol	109	10.574	10.563	0.011	85	171647	240.0	247.8	
111 2,4-Dinitrotoluene	165	10.654	10.649	0.005	95	204274	120.0	133.3	
112 Dibenzofuran	168	10.697	10.697	0.000	96	922881	120.0	116.5	
116 2,3,4,6-Tetrachlorophenol	232	10.825	10.825	0.000	72	181926	120.0	126.1	
118 Diethyl phthalate	149	10.889	10.889	0.000	99	729432	120.0	121.2	
119 Hexadecane	57	10.900	10.900	0.000	92	475112	120.0	111.5	
121 4-Chlorophenyl phenyl ethe	204	11.033	11.033	0.000	90	378937	120.0	119.8	
122 4-Nitroaniline	138	11.055	11.049	0.006	59	207387	120.0	125.4	
123 Fluorene	166	11.060	11.055	0.005	93	762709	120.0	116.9	
125 4,6-Dinitro-2-methylphenol	198	11.092	11.087	0.005	90	215768	240.0	275.1	
127 N-Nitrosodiphenylamine	169	11.151	11.145	0.006	63	574799	120.0	119.7	
128 Diphenylamine	169	11.151	11.145	0.006	94	574799	102.6	102.4	
129 1,2-Diphenylhydrazine	77	11.199	11.194	0.005	99	700352	120.0	114.3	
130 Azobenzene	77	11.199	11.194	0.005	97	700352	120.0	114.3	
137 4-Bromophenyl phenyl ether	248	11.530	11.525	0.005	62	242694	120.0	121.8	
139 Hexachlorobenzene	284	11.626	11.626	0.000	96	282777	120.0	120.7	
141 Atrazine	200	11.653	11.648	0.005	95	209417	120.0	119.0	
143 Pentachlorophenol	266	11.803	11.803	0.000	80	279840	240.0	249.9	
144 n-Octadecane	57	11.803	11.803	0.000	95	461920	120.0	108.3	
150 Phenanthrene	178	12.011	12.006	0.005	97	1079987	120.0	114.2	
151 Anthracene	178	12.059	12.054	0.005	97	1129149	120.0	114.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
152 Carbazole	167	12.193	12.187	0.006	98	1002752	120.0	114.6	
155 Di-n-butyl phthalate	149	12.449	12.449	0.000	100	1196498	120.0	117.9	
162 Fluoranthene	202	13.096	13.095	0.001	99	1187790	120.0	115.5	
164 Benzidine	184	13.170	13.170	0.000	98	554507	120.0	114.1	
165 Pyrene	202	13.304	13.304	0.000	95	1249224	120.0	115.4	
172 Butyl benzyl phthalate	149	13.785	13.785	0.000	97	540958	120.0	124.9	
178 Bis(2-ethylhexyl) phthalat	149	14.260	14.260	0.000	96	761598	120.0	125.4	
179 3,3'-Dichlorobenzidine	252	14.308	14.303	0.005	73	532406	120.0	121.9	
181 Benzo[a]anthracene	228	14.372	14.372	0.000	98	1324261	120.0	116.1	
182 Chrysene	228	14.410	14.410	0.000	97	1248480	120.0	112.8	
183 Di-n-octyl phthalate	149	14.858	14.858	0.000	99	1301711	120.0	126.3	
185 Benzo[b]fluoranthene	252	15.500	15.499	0.001	97	1472804	120.0	115.0	
187 Benzo[k]fluoranthene	252	15.532	15.526	0.006	98	1595396	120.0	116.5	
190 Benzo[a]pyrene	252	15.916	15.911	0.005	78	1459413	120.0	118.1	
193 Dibenz(a,h)anthracene	278	17.599	17.583	0.016	92	1670432	120.0	124.4	
194 Indeno[1,2,3-cd]pyrene	276	17.610	17.588	0.022	97	1976670	120.0	123.9	
195 Benzo[g,h,i]perylene	276	18.107	18.090	0.017	97	1677229	120.0	124.5	
S 256 3-Methylphenol	1				0			121.6	
S 254 Total Cresols	1				0			241.1	
S 257 3 & 4 Methylphenol	108				0			121.6	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

MB_LIST1_WRK_00479	Amount Added: 1.00	Units: mL	
MB_INTSTD_STK_00036	Amount Added: 20.00	Units: uL	Run Reagent

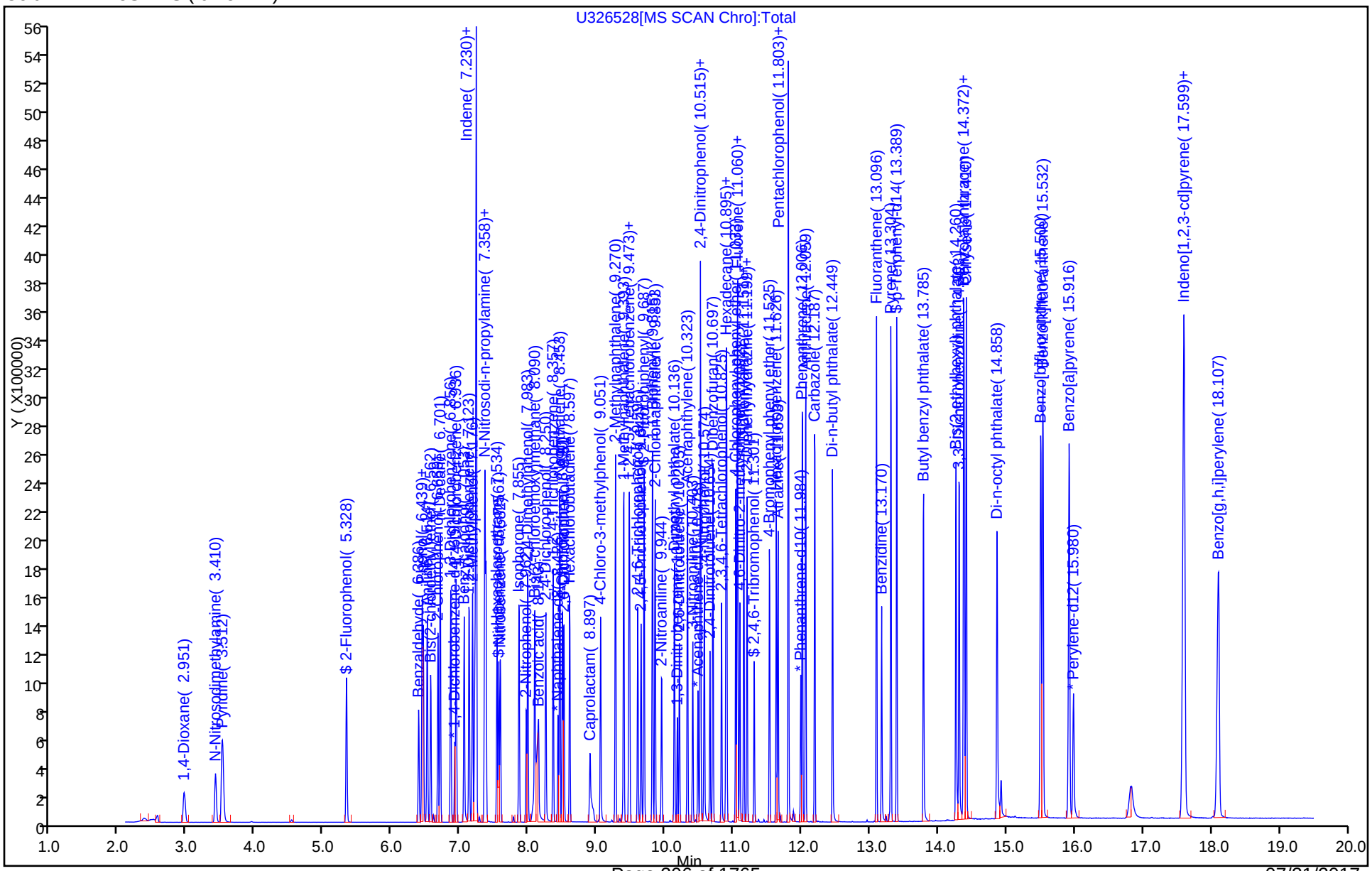
Report Date: 24-Jul-2017 11:19:55 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20170721-64235.b\U326528.D

Injection Date:	21-Jul-2017 14:32:30	Instrument ID:	HP5973U	Operator ID:	DR
Lims ID:	IC - List1 120			Worklist Smp#:	8
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	U-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

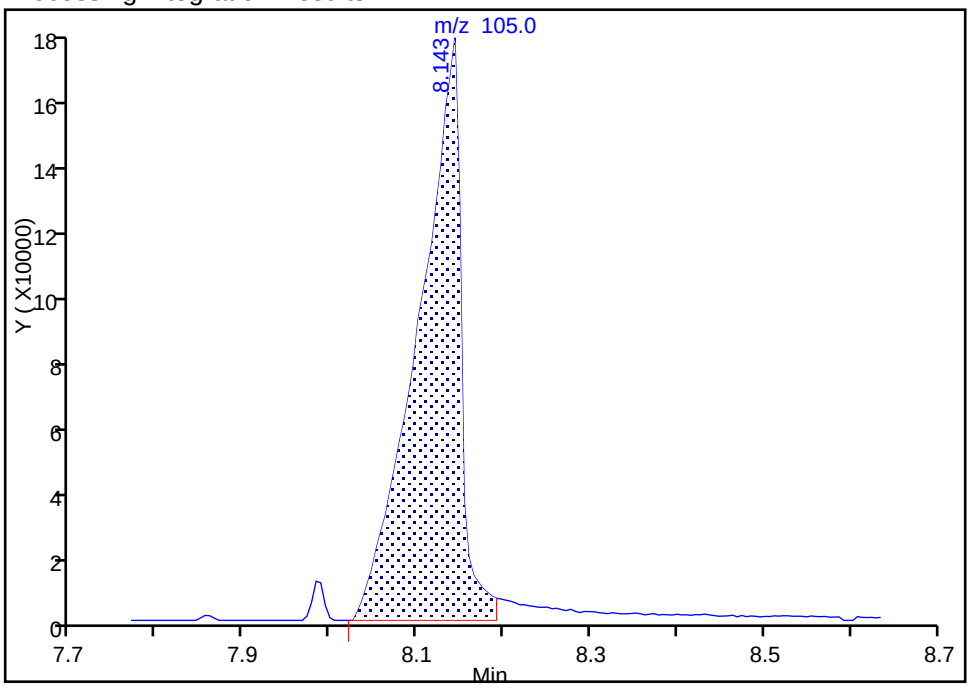
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Injection Date: 21-Jul-2017 14:32:30 Instrument ID: HP5973U
Lims ID: IC - List1 120
Client ID:
Operator ID: DR ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: U-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

64 Benzoic acid, CAS: 65-85-0

Signal: 1

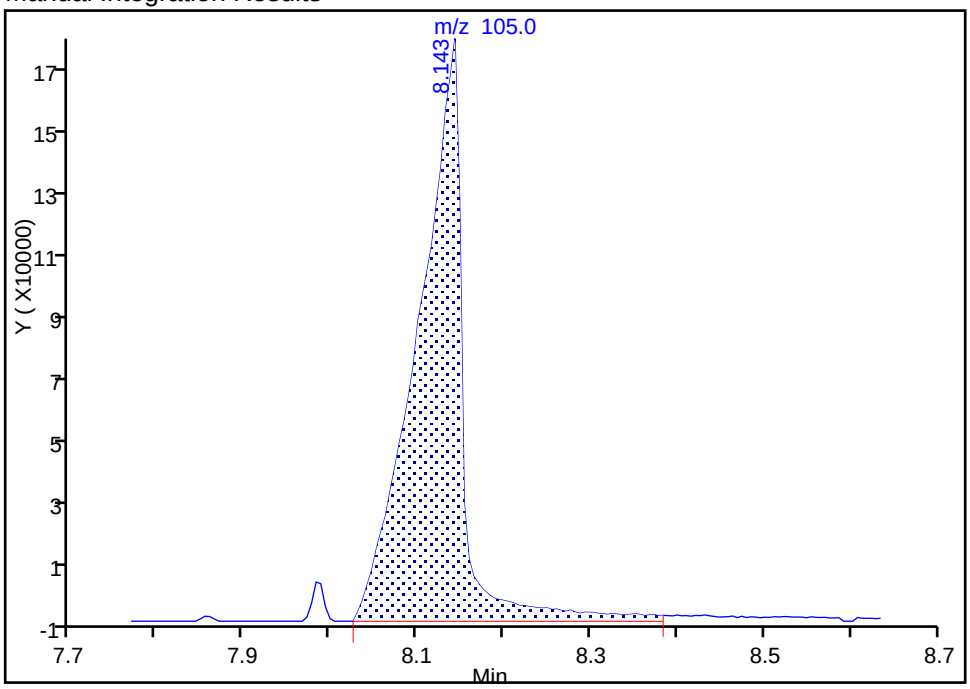
Processing Integration Results

RT: 8.14
Area: 608470
Amount: 560.2823
Amount Units: ng/uL



Manual Integration Results

RT: 8.14
Area: 645660
Amount: 376.5545
Amount Units: ng/uL



Reviewer: richardsd, 24-Jul-2017 09:52:42
Audit Action: Manually Integrated Audit Reason: Peak Tail

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

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1 Analy Batch No.: 368788

SDG No.:

Instrument ID: HP5973U GC Column: RXI-5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/26/2017 12:43 Calibration End Date: 07/26/2017 15:22 Calibration ID: 30969

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-368788/3	U326590.D
Level 2	IC 480-368788/4	U326591.D
Level 3	IC 480-368788/5	U326592.D
Level 4	ICIS 480-368788/6	U326593.D
Level 5	IC 480-368788/7	U326594.D
Level 6	IC 480-368788/8	U326595.D
Level 7	IC 480-368788/9	U326596.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								
1,4-Dioxane	0.5271	0.5581 +++++	0.5487	0.5746	0.5307	Ave		0.5478				3.6		20.0			
N-Nitrosodimethylamine	0.5050	0.4946 +++++	0.5012	0.5224	0.5056	Ave		0.5058				2.0		20.0			
Pyridine	0.9256	0.9743 +++++	0.9502	0.9740	0.9365	Ave		0.9521				2.3		20.0			
Benzaldehyde	0.5745	0.8599 +++++	0.8928	0.7652	0.6536	Ave		0.7492			0.0100	18.0		20.0			
Phenol	1.4438	1.4808 +++++	1.4651	1.4963	1.4610	Ave		1.4694			0.8000	1.4		20.0			
Aniline	1.7891	1.8584 +++++	1.8531	1.9009	1.8267	Ave		1.8456				2.2		20.0			
Bis(2-chloroethyl)ether	1.1542	1.1997 +++++	1.2203	1.1996	1.1687	Ave		1.1885			0.7000	2.2		20.0			
2-Chlorophenol	1.2901	1.2551 +++++	1.3134	1.3447	1.3025	Ave		1.3012			0.8000	2.5		20.0			
n-Decane	1.2183	1.4025 +++++	1.3406	1.3349	1.2509	Ave		1.3095			0.0100	5.7		20.0			
1,3-Dichlorobenzene	1.4555	1.6313 +++++	1.5723	1.5473	1.4835	Ave		1.5380				4.6		20.0			
1,4-Dichlorobenzene	1.4781	1.6108 +++++	1.5741	1.5742	1.4950	Ave		1.5464				3.7		20.0			
Benzyl alcohol	0.8009	0.6939 +++++	0.7462	0.7936	0.8067	Lin1	-0.685	0.8083							1.0000		0.9900
1,2-Dichlorobenzene	1.3848	1.5484 +++++	1.4701	1.4769	1.3900	Ave		1.4540				4.7		20.0			
2-Methylphenol	1.1082	1.0633 +++++	1.1027	1.1320	1.1140	Ave		1.1040			0.7000	2.3		20.0			

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

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

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1 Analy Batch No.: 368788

SDG No.:

Instrument ID: HP5973U GC Column: RXI-5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/26/2017 12:43 Calibration End Date: 07/26/2017 15:22 Calibration ID: 30969

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								
bis (2-chloroisopropyl) ether	1.2660	1.4614 +++++	1.4066	1.3628	1.2919	Ave		1.3577			0.0100	5.9		20.0			
Indene	1.6788	2.4384 +++++	2.2582	2.1400	1.8165	Ave		2.0664				15.2		20.0			
4-Methylphenol	1.1395	1.1035 +++++	1.1707	1.1927	1.1620	Ave		1.1537			0.6000	2.9		20.0			
N-Nitrosodi-n-propylamine	0.8017	0.7300 +++++	0.7973	0.8118	0.8012	Ave		0.7884			0.5000	4.2		20.0			
Acetophenone	1.5743	1.6203 +++++	1.6576	1.6678	1.5926	Ave		1.6225			0.0100	2.5		20.0			
Hexachloroethane	0.5170	0.5273 +++++	0.5171	0.5280	0.5172	Ave		0.5213			0.3000	1.1		20.0			
Nitrobenzene	0.3110	0.2864 +++++	0.3017	0.3077	0.3125	Lin1	-0.148	0.3125			0.2000				1.0000		0.9900
Isophorone	0.5527	0.5272 +++++	0.5697	0.5697	0.5652	Ave		0.5569			0.4000	3.2		20.0			
2-Nitrophenol	0.1970	0.1447 +++++	0.1626	0.1772	0.1905	Lin1	-0.333	0.1939			0.1000				0.9980		0.9900
2,4-Dimethylphenol	0.3151	0.3137 +++++	0.3213	0.3147	0.3185	Ave		0.3167			0.2000	1.0		20.0			
Bis(2-chloroethoxy)methane	0.3491	0.3735 +++++	0.3783	0.3636	0.3600	Ave		0.3649			0.3000	3.1		20.0			
Benzoic acid	0.2324	0.0654 +++++	0.1558	0.1814	0.2182	Lin1	-2.933	0.2278							0.9920		0.9900
2,4-Dichlorophenol	0.2986	0.2656 +++++	0.2867	0.2928	0.3024	Ave		0.2892			0.2000	5.0		20.0			
1,2,4-Trichlorobenzene	0.3271	0.3686 +++++	0.3436	0.3348	0.3313	Ave		0.3411				4.8		20.0			
Naphthalene	1.0908 0.9007	1.1368 +++++	1.0561	1.0096	0.9471	Ave		1.0235			0.7000	8.7		20.0			
4-Chloroaniline	0.4245	0.4199 +++++	0.4364	0.4327	0.4320	Ave		0.4291			0.0100	1.6		20.0			
2,6-Dichlorophenol	0.2938	0.2736 +++++	0.2940	0.2921	0.2954	Ave		0.2898				3.2		20.0			
Hexachlorobutadiene	0.1995	0.2110 +++++	0.2056	0.1976	0.2022	Ave		0.2032			0.0100	2.6		20.0			
Caprolactam	0.1079	0.0752 +++++	0.0933	0.1004	0.1063	Lin1	-0.193	0.1079			0.0100				0.9990		0.9900
4-Chloro-3-methylphenol	0.2727	0.2294 +++++	0.2602	0.2685	0.2718	Ave		0.2605			0.2000	6.9		20.0			

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

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

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1 Analy Batch No.: 368788

SDG No.:

Instrument ID: HP5973U GC Column: RXI-5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/26/2017 12:43 Calibration End Date: 07/26/2017 15:22 Calibration ID: 30969

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-Methylnaphthalene	0.6282 0.6506	0.7432 +++++	0.7314	0.7022	0.6733	Ave		0.6881			0.4000	6.6		20.0			
1-Methylnaphthalene	0.5755 0.6049	0.7018 +++++	0.6782	0.6464	0.6267	Ave		0.6389			0.0100	7.3		20.0			
Hexachlorocyclopentadiene	0.4584	0.2992 +++++	0.3749	0.4129	0.4539	Lin1	-0.990	0.4578			0.0500				0.9980		0.9900
1,2,4,5-Tetrachlorobenzene	0.6756	0.7492 +++++	0.6863	0.6769	0.6783	Ave		0.6933			0.0100	4.6		20.0			
2,4,6-Trichlorophenol	0.4343	0.3513 +++++	0.3886	0.4103	0.4365	Lin1	-0.537	0.4356			0.2000				0.9990		0.9900
2,4,5-Trichlorophenol	0.4520	0.3804 +++++	0.4166	0.4222	0.4517	Lin1	-0.445	0.4506			0.2000				0.9990		0.9900
Biphenyl	1.5397	1.8582 +++++	1.7338	1.6938	1.6023	Lin1	1.9164	1.5735			0.0100				0.9980		0.9900
2-Chloronaphthalene	1.2066	1.3914 +++++	1.3022	1.2872	1.2605	Ave		1.2896			0.8000	5.2		20.0			
2-Nitroaniline	0.3088	0.2133 +++++	0.2543	0.2880	0.3051	Lin1	-0.604	0.3093			0.0100				0.9990		0.9900
Dimethyl phthalate	1.3361	1.4948 +++++	1.4870	1.4518	1.3888	Ave		1.4317			0.0100	4.7		20.0			
1,3-Dinitrobenzene	0.1317	0.0822 +++++	0.1028	0.1110	0.1246	Lin1	-0.301	0.1281							0.9950		0.9900
2,6-Dinitrotoluene	0.3565	0.2556 +++++	0.3066	0.3359	0.3546	Lin1	-0.620	0.3582							0.9990		0.9900
Acenaphthylene	1.5167 1.7017	1.8800 +++++	1.8985	1.8764	1.8066	Ave		1.7800			0.9000	8.3		20.0			
3-Nitroaniline	0.3779	0.2677 +++++	0.3331	0.3582	0.3755	Lin1	-0.646	0.3803			0.0100				0.9990		0.9900
Acenaphthene	1.3510 1.2094	1.4590 +++++	1.3644	1.3229	1.2651	Ave		1.3286			0.9000	6.5		20.0			
2,4-Dinitrophenol	0.2099	0.0508 +++++	0.1442	0.1724	0.2000	Lin1	-1.836	0.2092			0.0100				0.9950		0.9900
4-Nitrophenol	0.1662	0.0991 +++++	0.1450	0.1535	0.1614	Lin1	-0.730	0.1664			0.0100				0.9990		0.9900
2,4-Dinitrotoluene	0.4617	0.3144 +++++	0.4011	0.4325	0.4611	Lin1	-0.874	0.4653			0.2000				0.9990		0.9900
Dibenzofuran	1.6414	2.0755 +++++	1.9172	1.8441	1.7282	Lin1	2.6422	1.6867			0.8000				0.9970		0.9900
2,3,4,6-Tetrachlorophenol	0.3969	0.2504 +++++	0.3418	0.3745	0.3878	Lin1	-0.827	0.3987			0.0100				1.0000		0.9900

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

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

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1 Analy Batch No.: 368788

SDG No.:

Instrument ID: HP5973U GC Column: RXI-5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/26/2017 12:43 Calibration End Date: 07/26/2017 15:22 Calibration ID: 30969

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								
Diethyl phthalate	1.2984	1.4039 +++++	1.4559	1.4222	1.3434	Ave		1.3848			0.0100	4.6		20.0			
Hexadecane	0.7142	0.8237 +++++	0.7914	0.7878	0.7512	Ave		0.7737			0.0100	5.4		20.0			
4-Chlorophenyl phenyl ether	0.7443	0.8729 +++++	0.7953	0.7899	0.7601	Lin1	0.7139	0.7507			0.4000				0.9990		0.9900
4-Nitroaniline	0.3973	0.3051 +++++	0.3680	0.3899	0.3938	Lin1	-0.510	0.4006			0.0100				1.0000		0.9900
Fluorene	1.3775 1.3875	1.6857 +++++	1.5758	1.5230	1.4315	Ave		1.4968			0.9000	8.1		20.0			
4,6-Dinitro-2-methylphenol	0.1512	0.0828 +++++	0.1218	0.1312	0.1476	Lin1	-0.801	0.1503			0.0100				0.9970		0.9900
Diphenylamine	0.6633	0.6941 +++++	0.6931	0.6884	0.6758	Ave		0.6829				1.9		20.0			
N-Nitrosodiphenylamine	0.5671	0.5935 +++++	0.5926	0.5886	0.5778	Ave		0.5839			0.0100	1.9		20.0			
1,2-Diphenylhydrazine	0.6008	0.6057 +++++	0.6435	0.6266	0.6164	Ave		0.6186				2.8		20.0			
trans-Azobenzene	0.6008	0.6057 +++++	0.6435	0.6266	0.6164	Ave		0.6186				2.8		20.0			
4-Bromophenyl phenyl ether	0.2644	0.2608 +++++	0.2670	0.2628	0.2653	Ave		0.2641			0.1000	0.9		20.0			
Hexachlorobenzene	0.3094	0.3241 +++++	0.3210	0.3122	0.3134	Ave		0.3160			0.1000	2.0		20.0			
Atrazine	0.4011	0.3896 +++++	0.4476	0.4321	0.4182	Lin1	0.0447	0.4151			0.0100				0.9980		0.9900
Pentachlorophenol	0.1628	0.0715 +++++	0.1279	0.1437	0.1626	Lin1	-1.067	0.1649			0.0500				0.9980		0.9900
n-Octadecane	0.3668	0.3900 +++++	0.4124	0.4010	0.3883	Ave		0.3917			0.0100	4.3		20.0			
Phenanthrene	1.1811 0.9654	1.2643 +++++	1.1689	1.1082	1.0243	Ave		1.1187			0.7000	9.8		20.0			
Anthracene	1.0071 1.0125	1.2076 +++++	1.2047	1.1483	1.0837	Ave		1.1107			0.7000	8.1		20.0			
Carbazole	0.8966	1.0544 +++++	1.0569	1.0096	0.9534	Ave		0.9942			0.0100	6.9		20.0			
Di-n-butyl phthalate	1.0230	1.0502 +++++	1.2162	1.1745	1.0949	Lin1	0.5350	1.0805			0.0100				0.9950		0.9900
Fluoranthene	1.1026 1.0304	1.2658 +++++	1.2743	1.2020	1.1201	Ave		1.1659			0.6000	8.4		20.0			

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

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

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1 Analy Batch No.: 368788

SDG No.:

Instrument ID: HP5973U GC Column: RXI-5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/26/2017 12:43 Calibration End Date: 07/26/2017 15:22 Calibration ID: 30969

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								
Benzidine	0.4561	0.5073 +++++	0.6223	0.5481	0.5055	Ave		0.5279				11.8		20.0			
Pyrene	0.9456 0.9067	1.0725 +++++	1.0933	1.0448	0.9585	Ave		1.0036			0.6000	7.6		20.0			
Butyl benzyl phthalate	0.4398	0.3546 +++++	0.4277	0.4400	0.4571	Lin1	-0.484	0.4521			0.0100				1.0000		0.9900
Bis(2-ethylhexyl) phthalate	0.6255	0.5075 +++++	0.6135	0.6302	0.6459	Lin1	-0.644	0.6422			0.0100				1.0000		0.9900
3,3'-Dichlorobenzidine	0.4307	0.4062 +++++	0.4423	0.4398	0.4476	Ave		0.4333			0.0100	3.8		20.0			
Benzo(a)anthracene	1.2689 0.9751	1.1818 +++++	1.1447	1.0923	1.0176	Ave		1.1134			0.8000	9.7		20.0			
Chrysene	1.2012 0.9466	1.2239 +++++	1.1215	1.0414	0.9920	Ave		1.0878			0.7000	10.4		20.0			
Di-n-octyl phthalate	1.0145	0.9160 +++++	1.0193	1.0317	1.0520	Ave		1.0067			0.0100	5.2		20.0			
Benzo(b)fluoranthene	1.0327 1.0149	1.1912 +++++	1.2352	1.1662	1.1340	Ave		1.1290			0.7000	7.8		20.0			
Benzo(k)fluoranthene	1.1976 1.1134	1.3051 +++++	1.2186	1.2300	1.0965	Ave		1.1935			0.7000	6.5		20.0			
Benzo(a)pyrene	0.9372 1.0110	1.1118 +++++	1.0884	1.0959	1.0516	Ave		1.0493			0.7000	6.3		20.0			
Dibenz(a,h)anthracene	0.9913 1.1682	1.1961 +++++	1.1335	1.1836	1.1843	Lin1	-0.086	1.1758							1.0000		0.9900
Indeno(1,2,3-cd)pyrene	1.1645 1.3794	1.3581 +++++	1.3270	1.3764	1.4013	Lin1	-0.129	1.3838			0.5000				1.0000		0.9900
Benzo(g,h,i)perylene	1.0142 1.1795	1.1509 +++++	1.0928	1.1620	1.1796	Lin1	-0.108	1.1709			0.5000				1.0000		0.9900
2-Fluorophenol	1.1752	1.1951 +++++	1.1942	1.2579	1.2056	Ave		1.2056				2.6		20.0			
Phenol-d5	1.4185	1.4287 +++++	1.4542	1.5004	1.4358	Ave		1.4475				2.2		20.0			
Nitrobenzene-d5	0.3215	0.2915 +++++	0.3038	0.3125	0.3230	Lin1	-0.200	0.3222							1.0000		0.9900
2-Fluorobiphenyl	1.4470	1.7294 +++++	1.6029	1.5421	1.4973	Lin1	1.6597	1.4666							0.9990		0.9900
2,4,6-Tribromophenol	0.1849	0.1230 +++++	0.1544	0.1617	0.1782	Lin1	-0.365	0.1818							0.9970		0.9900
p-Terphenyl-d14	0.7638	0.9040 +++++	0.9078	0.8516	0.7990	Ave		0.8453				7.5		20.0			

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

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

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1 Analy Batch No.: 368788

SDG No.:

Instrument ID: HP5973U GC Column: RXI-5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/26/2017 12:43 Calibration End Date: 07/26/2017 15:22 Calibration ID: 30969

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-368788/3	U326590.D
Level 2	IC 480-368788/4	U326591.D
Level 3	IC 480-368788/5	U326592.D
Level 4	ICIS 480-368788/6	U326593.D
Level 5	IC 480-368788/7	U326594.D
Level 6	IC 480-368788/8	U326595.D
Level 7	IC 480-368788/9	U326596.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
1,4-Dioxane	DCBd 4	Ave	381565	12292 +++++	59458	129420	288291	100	5.00 +++++	20.0	50.0	80.0
N-Nitrosodimethylamine	DCBd 4	Ave	365567	10893 +++++	54317	117651	274661	100	5.00 +++++	20.0	50.0	80.0
Pyridine	DCBd 4	Ave	670030	21459 +++++	102967	219382	508768	100	5.00 +++++	20.0	50.0	80.0
Benzaldehyde	DCBd 4	Ave	415877	18940 +++++	96748	172354	355069	100	5.00 +++++	20.0	50.0	80.0
Phenol	DCBd 4	Ave	1045153	32614 +++++	158769	337018	793698	100	5.00 +++++	20.0	50.0	80.0
Aniline	DCBd 4	Ave	1295167	40931 +++++	200814	428136	992371	100	5.00 +++++	20.0	50.0	80.0
Bis(2-chloroethyl)ether	DCBd 4	Ave	835546	26424 +++++	132239	270180	634873	100	5.00 +++++	20.0	50.0	80.0
2-Chlorophenol	DCBd 4	Ave	933947	27643 +++++	142332	302873	707590	100	5.00 +++++	20.0	50.0	80.0
n-Decane	DCBd 4	Ave	881967	30890 +++++	145276	300662	679566	100	5.00 +++++	20.0	50.0	80.0
1,3-Dichlorobenzene	DCBd 4	Ave	1053678	35930 +++++	170384	348492	805909	100	5.00 +++++	20.0	50.0	80.0
1,4-Dichlorobenzene	DCBd 4	Ave	1070033	35478 +++++	170575	354544	812156	100	5.00 +++++	20.0	50.0	80.0
Benzyl alcohol	DCBd 4	Lin1	579775	15284 +++++	80859	178741	438248	100	5.00 +++++	20.0	50.0	80.0
1,2-Dichlorobenzene	DCBd 4	Ave	1002475	34103 +++++	159305	332632	755094	100	5.00 +++++	20.0	50.0	80.0
2-Methylphenol	DCBd 4	Ave	802265	23419 +++++	119496	254956	605188	100	5.00 +++++	20.0	50.0	80.0
bis (2-chloroisopropyl) ether	DCBd 4	Ave	916483	32188 +++++	152423	306944	701839	100	5.00 +++++	20.0	50.0	80.0

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

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1 Analy Batch No.: 368788

SDG No.:

Instrument ID: HP5973U GC Column: RXI-5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/26/2017 12:43 Calibration End Date: 07/26/2017 15:22 Calibration ID: 30969

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Indene	DCBd 4	Ave	3645806	161121 +++++	734129	1445963	2960503	300	15.0 +++++	60.0	150	240
4-Methylphenol	DCBd 4	Ave	824870	24304 +++++	126859	268626	631276	100	5.00 +++++	20.0	50.0	80.0
N-Nitrosodi-n-propylamine	DCBd 4	Ave	580329	16079 +++++	86404	182830	435253	100	5.00 +++++	20.0	50.0	80.0
Acetophenone	DCBd 4	Ave	1139690	35687 +++++	179630	375637	865187	100	5.00 +++++	20.0	50.0	80.0
Hexachloroethane	DCBd 4	Ave	374277	11614 +++++	56032	118918	280961	100	5.00 +++++	20.0	50.0	80.0
Nitrobenzene	NPT	Lin1	806429	22466 +++++	119098	255607	605425	100	5.00 +++++	20.0	50.0	80.0
Isophorone	NPT	Ave	1433265	41356 +++++	224876	473267	1094930	100	5.00 +++++	20.0	50.0	80.0
2-Nitrophenol	NPT	Lin1	510892	11353 +++++	64187	147226	368999	100	5.00 +++++	20.0	50.0	80.0
2,4-Dimethylphenol	NPT	Ave	817018	24611 +++++	126835	261424	617035	100	5.00 +++++	20.0	50.0	80.0
Bis(2-chloroethoxy)methane	NPT	Ave	905188	29296 +++++	149325	302015	697316	100	5.00 +++++	20.0	50.0	80.0
Benzoic acid	NPT	Lin1	1807712	15384 +++++	184487	452018	1267776	300	15.0 +++++	60.0	150	240
2,4-Dichlorophenol	NPT	Ave	774378	20833 +++++	113194	243256	585789	100	5.00 +++++	20.0	50.0	80.0
1,2,4-Trichlorobenzene	NPT	Ave	848126	28912 +++++	135647	278153	641843	100	5.00 +++++	20.0	50.0	80.0
Naphthalene	NPT	Ave	10852 2335585	89180 +++++	416908	838699	1834680	0.500 100	5.00 +++++	20.0	50.0	80.0
4-Chloroaniline	NPT	Ave	1100801	32937 +++++	172263	359486	836768	100	5.00 +++++	20.0	50.0	80.0
2,6-Dichlorophenol	NPT	Ave	761848	21459 +++++	116053	242633	572217	100	5.00 +++++	20.0	50.0	80.0
Hexachlorobutadiene	NPT	Ave	517283	16554 +++++	81162	164168	391718	100	5.00 +++++	20.0	50.0	80.0
Caprolactam	NPT	Lin1	279825	5902 +++++	36842	83431	205919	100	5.00 +++++	20.0	50.0	80.0
4-Chloro-3-methylphenol	NPT	Ave	707145	17994 +++++	102734	223030	526555	100	5.00 +++++	20.0	50.0	80.0
2-Methylnaphthalene	NPT	Ave	6250 1686973	58300 +++++	288722	583363	1304251	0.500 100	5.00 +++++	20.0	50.0	80.0
1-Methylnaphthalene	NPT	Ave	5726 1568407	55055 +++++	267730	536970	1214049	0.500 100	5.00 +++++	20.0	50.0	80.0

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

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1 Analy Batch No.: 368788

SDG No.:

Instrument ID: HP5973U GC Column: RXI-5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/26/2017 12:43 Calibration End Date: 07/26/2017 15:22 Calibration ID: 30969

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Hexachlorocyclopentadiene	ANT	Lin1	594377	11410 +++++	76212	171979	436422	100	5.00 +++++	20.0	50.0	80.0
1,2,4,5-Tetrachlorobenzene	ANT	Ave	876045	28571 +++++	139504	281936	652238	100	5.00 +++++	20.0	50.0	80.0
2,4,6-Trichlorophenol	ANT	Lin1	563152	13397 +++++	78981	170890	419747	100	5.00 +++++	20.0	50.0	80.0
2,4,5-Trichlorophenol	ANT	Lin1	586154	14508 +++++	84677	175872	434327	100	5.00 +++++	20.0	50.0	80.0
Biphenyl	ANT	Lin1	1996620	70863 +++++	352422	705505	1540681	100	5.00 +++++	20.0	50.0	80.0
2-Chloronaphthalene	ANT	Ave	1564703	53061 +++++	264691	536125	1212040	100	5.00 +++++	20.0	50.0	80.0
2-Nitroaniline	ANT	Lin1	400383	8134 +++++	51695	119963	293411	100	5.00 +++++	20.0	50.0	80.0
Dimethyl phthalate	ANT	Ave	1732608	57004 +++++	302266	604687	1335423	100	5.00 +++++	20.0	50.0	80.0
1,3-Dinitrobenzene	NPT	Lin1	341464	6452 +++++	40569	92218	241404	100	5.00 +++++	20.0	50.0	80.0
2,6-Dinitrotoluene	ANT	Lin1	462302	9748 +++++	62328	139917	340972	100	5.00 +++++	20.0	50.0	80.0
Acenaphthylene	ANT	Ave	7332 2206651	71696 +++++	385902	781551	1737119	0.500 100	5.00 +++++	20.0	50.0	80.0
3-Nitroaniline	ANT	Lin1	489991	10209 +++++	67704	149195	361071	100	5.00 +++++	20.0	50.0	80.0
Acenaphthene	ANT	Ave	6531 1568355	55641 +++++	277336	551002	1216416	0.500 100	5.00 +++++	20.0	50.0	80.0
2,4-Dinitrophenol	ANT	Lin1	544471	3876 +++++	58629	143605	384534	200	10.0 +++++	40.0	100	160
4-Nitrophenol	ANT	Lin1	431045	7557 +++++	58947	127831	310373	200	10.0 +++++	40.0	100	160
2,4-Dinitrotoluene	ANT	Lin1	598764	11989 +++++	81533	180154	443378	100	5.00 +++++	20.0	50.0	80.0
Dibenzofuran	ANT	Lin1	2128544	79152 +++++	389695	768105	1661706	100	5.00 +++++	20.0	50.0	80.0
2,3,4,6-Tetrachlorophenol	ANT	Lin1	514728	9550 +++++	69486	155980	372933	100	5.00 +++++	20.0	50.0	80.0
Diethyl phthalate	ANT	Ave	1683719	53540 +++++	295938	592372	1291706	100	5.00 +++++	20.0	50.0	80.0
Hexadecane	ANT	Ave	926153	31413 +++++	160858	328125	722326	100	5.00 +++++	20.0	50.0	80.0
4-Chlorophenyl phenyl ether	ANT	Lin1	965235	33287 +++++	161662	328989	730882	100	5.00 +++++	20.0	50.0	80.0

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

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1 Analy Batch No.: 368788

SDG No.:

Instrument ID: HP5973U GC Column: RXI-5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/26/2017 12:43 Calibration End Date: 07/26/2017 15:22 Calibration ID: 30969

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
4-Nitroaniline	ANT	Lin1	515190	11634 +++++	74796	162379	378666	100	5.00 +++++	20.0	50.0	80.0
Fluorene	ANT	Ave	6659 1799220	64284 +++++	320308	634332	1376414	0.500 100	5.00 +++++	20.0	50.0	80.0
4,6-Dinitro-2-methylphenol	PHN	Lin1	740788	12590 +++++	97028	213172	537884	200	10.0 +++++	40.0	100	160
Diphenylamine	PHN	Ave	1389519	45124 +++++	236012	478343	1053173	85.5	4.28 +++++	17.1	42.8	68.4
N-Nitrosodiphenylamine	PHN	Ave	1389519	45124 +++++	236012	478343	1053173	100	5.00 +++++	20.0	50.0	80.0
1,2-Diphenylhydrazine	PHN	Ave	1472158	46058 +++++	256279	509251	1123502	100	5.00 +++++	20.0	50.0	80.0
trans-Azobenzene	PHN	Ave	1472158	46058 +++++	256279	509251	1123502	100	5.00 +++++	20.0	50.0	80.0
4-Bromophenyl phenyl ether	PHN	Ave	647899	19834 +++++	106341	213580	483542	100	5.00 +++++	20.0	50.0	80.0
Hexachlorobenzene	PHN	Ave	757986	24643 +++++	127826	253686	571155	100	5.00 +++++	20.0	50.0	80.0
Atrazine	ANT	Lin1	520186	14856 +++++	90988	179964	402136	100	5.00 +++++	20.0	50.0	80.0
Pentachlorophenol	PHN	Lin1	797597	10875 +++++	101882	233599	592724	200	10.0 +++++	40.0	100	160
n-Octadecane	PHN	Ave	898772	29656 +++++	164227	325869	707826	100	5.00 +++++	20.0	50.0	80.0
Phenanthrene	PHN	Ave	10897 2365491	96135 +++++	465520	900656	1866930	0.500 100	5.00 +++++	20.0	50.0	80.0
Anthracene	PHN	Ave	9292 2480972	91820 +++++	479789	933176	1975150	0.500 100	5.00 +++++	20.0	50.0	80.0
Carbazole	PHN	Ave	2196811	80170 +++++	420906	820507	1737786	100	5.00 +++++	20.0	50.0	80.0
Di-n-butyl phthalate	PHN	Lin1	2506579	79855 +++++	484345	954519	1995681	100	5.00 +++++	20.0	50.0	80.0
Fluoranthene	PHN	Ave	10173 2524621	96246 +++++	507487	976891	2041588	0.500 100	5.00 +++++	20.0	50.0	80.0
Benzidine	CRY	Ave	1316394	48615 +++++	304308	546751	1134621	100	5.00 +++++	20.0	50.0	80.0
Pyrene	CRY	Ave	11363 2616931	102771 +++++	534674	1042110	2151624	0.500 100	5.00 +++++	20.0	50.0	80.0
Butyl benzyl phthalate	CRY	Lin1	1269252	33983 +++++	209138	438876	1026113	100	5.00 +++++	20.0	50.0	80.0
Bis(2-ethylhexyl) phthalate	CRY	Lin1	1805184	48634 +++++	300031	628624	1449913	100	5.00 +++++	20.0	50.0	80.0

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

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1 Analy Batch No.: 368788

SDG No.:

Instrument ID: HP5973U GC Column: RXI-5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/26/2017 12:43 Calibration End Date: 07/26/2017 15:22 Calibration ID: 30969

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
3,3'-Dichlorobenzidine	CRY	Ave	1243133	38921 +++++	216283	438637	1004680	100	5.00 +++++	20.0	50.0	80.0
Benzo(a)anthracene	CRY	Ave	15248 2814166	113247 +++++	559816	1089559	2284142	0.500 100	5.00 +++++	20.0	50.0	80.0
Chrysene	CRY	Ave	14435 2732133	117281 +++++	548468	1038746	2226710	0.500 100	5.00 +++++	20.0	50.0	80.0
Di-n-octyl phthalate	CRY	Ave	2928099	87783 +++++	498490	1029056	2361398	100	5.00 +++++	20.0	50.0	80.0
Benzo(b)fluoranthene	PRY	Ave	12879 3124598	118502 +++++	607767	1154260	2660031	0.500 100	5.00 +++++	20.0	50.0	80.0
Benzo(k)fluoranthene	PRY	Ave	14936 3427986	129834 +++++	599618	1217411	2572180	0.500 100	5.00 +++++	20.0	50.0	80.0
Benzo(a)pyrene	PRY	Ave	11688 3112482	110606 +++++	535552	1084735	2466922	0.500 100	5.00 +++++	20.0	50.0	80.0
Dibenz(a,h)anthracene	PRY	Lin1	12363 3596608	118993 +++++	557764	1171526	2778160	0.500 100	5.00 +++++	20.0	50.0	80.0
Indeno(1,2,3-cd)pyrene	PRY	Lin1	14523 4246852	135106 +++++	652979	1362360	3287193	0.500 100	5.00 +++++	20.0	50.0	80.0
Benzo(g,h,i)perylene	PRY	Lin1	12648 3631284	114493 +++++	537719	1150076	2767041	0.500 100	5.00 +++++	20.0	50.0	80.0
2-Fluorophenol	DCBd 4	Ave	850718	26323 +++++	129410	283319	654937	100	5.00 +++++	20.0	50.0	80.0
Phenol-d5	DCBd 4	Ave	1026884	31467 +++++	157590	337933	780001	100	5.00 +++++	20.0	50.0	80.0
Nitrobenzene-d5	NPT	Lin1	833747	22866 +++++	119936	259570	625720	100	5.00 +++++	20.0	50.0	80.0
2-Fluorobiphenyl	ANT	Lin1	1876382	65951 +++++	325810	642308	1439674	100	5.00 +++++	20.0	50.0	80.0
2,4,6-Tribromophenol	PHN	Lin1	452983	9351 +++++	61494	131376	324734	100	5.00 +++++	20.0	50.0	80.0
p-Terphenyl-d14	CRY	Ave	2204560	86631 +++++	443966	849442	1793554	100	5.00 +++++	20.0	50.0	80.0

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20170726-64341.b\U326590.D
Lims ID: IC - List1 0.5
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 26-Jul-2017 12:43:30 ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 480-0064341-003
Operator ID: DR Instrument ID: HP5973U
Sublist: chrom-U-8270*sub56

Method: \\ChromNA\Buffalo\ChromData\HP5973U\20170726-64341.b\U-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 27-Jul-2017 16:40:45 Calib Date: 26-Jul-2017 18:28:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973U\20170726-64341.b\U326603.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK019

First Level Reviewer: richardsd Date: 26-Jul-2017 15:19:50

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	6.840	6.840	0.000	93	222457	40.0	40.0	
* 2 Naphthalene-d8	136	8.357	8.351	0.006	99	795924	40.0	40.0	
* 3 Acenaphthene-d10	164	10.408	10.408	0.000	97	386727	40.0	40.0	
* 4 Phenanthrene-d10	188	11.920	11.920	0.000	95	738083	40.0	40.0	
* 5 Chrysene-d12	240	14.314	14.308	0.006	97	961353	40.0	40.0	
* 6 Perylene-d12	264	15.873	15.868	0.005	97	997710	40.0	40.0	
70 Naphthalene	128	8.378	8.378	0.000	93	10852	0.5000	0.5328	
83 2-Methylnaphthalene	142	9.196	9.196	0.000	88	6250	0.5000	0.4564	
85 1-Methylnaphthalene	142	9.319	9.318	0.000	90	5726	0.5000	0.4504	
105 Acenaphthylene	152	10.253	10.253	0.000	96	7332	0.5000	0.4261	
108 Acenaphthene	153	10.446	10.446	0.000	91	6531	0.5000	0.5084	
123 Fluorene	166	10.991	10.991	0.001	97	6659	0.5000	0.4601	
150 Phenanthrene	178	11.942	11.941	0.001	93	10897	0.5000	0.5279	
151 Anthracene	178	11.990	11.990	0.000	95	9292	0.5000	0.4534	
162 Fluoranthene	202	13.031	13.031	0.000	96	10173	0.5000	0.4729	
165 Pyrene	202	13.240	13.240	0.000	98	11363	0.5000	0.4711	
181 Benzo[a]anthracene	228	14.303	14.297	0.006	92	15248	0.5000	0.5698	
182 Chrysene	228	14.335	14.335	0.000	96	14435	0.5000	0.5521	
185 Benzo[b]fluoranthene	252	15.403	15.398	0.005	96	12879	0.5000	0.4573	
187 Benzo[k]fluoranthene	252	15.430	15.430	0.000	97	14936	0.5000	0.5017	
190 Benzo[a]pyrene	252	15.804	15.799	0.005	75	11688	0.5000	0.4466	
193 Dibenz(a,h)anthracene	278	17.423	17.423	0.000	75	12363	0.5000	0.4949	
194 Indeno[1,2,3-cd]pyrene	276	17.433	17.433	0.000	94	14523	0.5000	0.5140	
195 Benzo[g,h,i]perylene	276	17.914	17.914	0.000	97	12648	0.5000	0.5250	

Reagents:

MB_LIST1_WRK_00480 Amount Added: 1.00 Units: mL
MB_INTSTD_STK_00036 Amount Added: 20.00 Units: uL Run Reagent

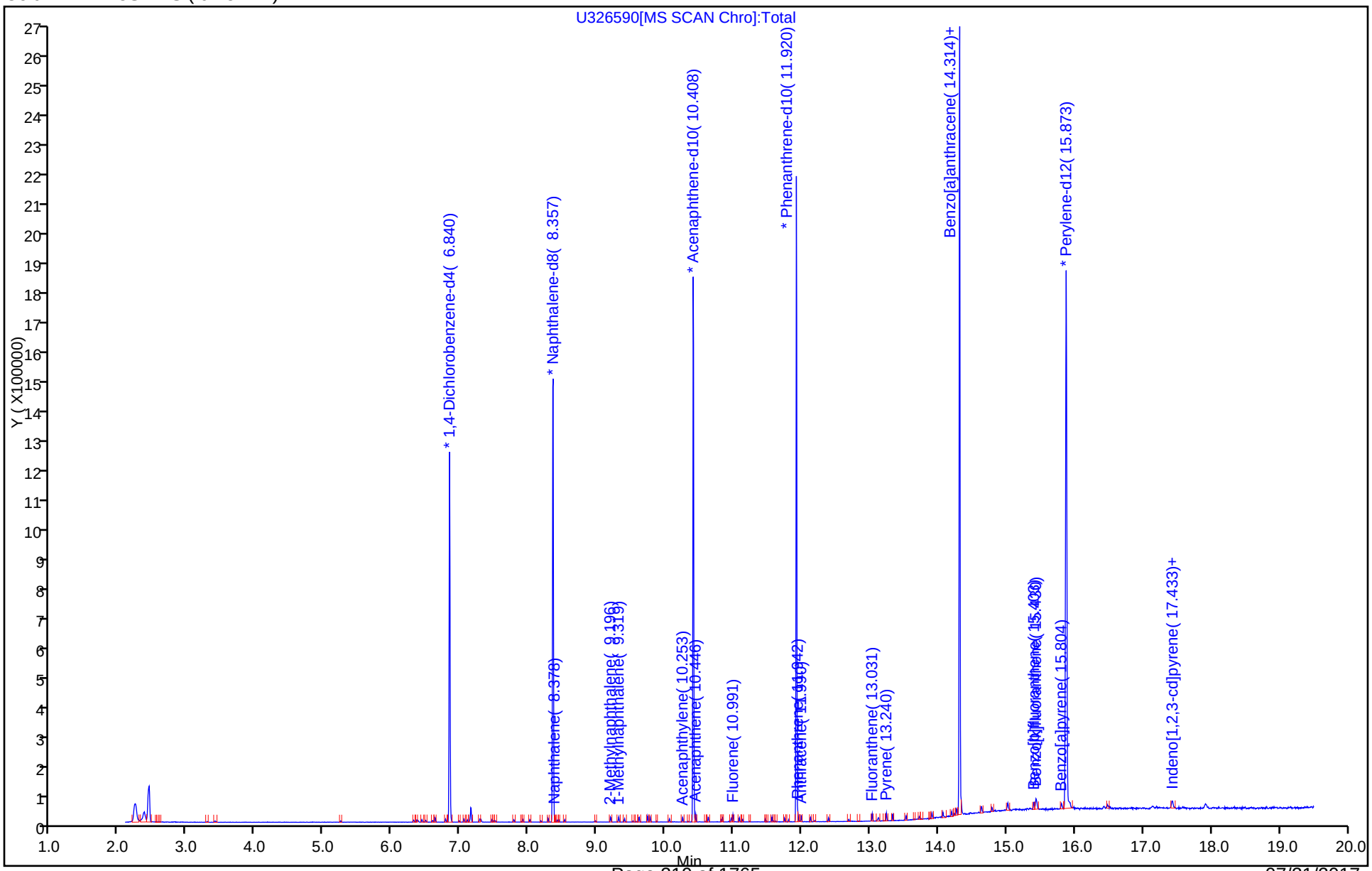
Report Date: 27-Jul-2017 16:40:46 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20170726-64341.b\U326590.D

Injection Date:	26-Jul-2017 12:43:30	Instrument ID:	HP5973U	Operator ID:	DR
Lims ID:	IC - List1 0.5			Worklist Smp#:	3
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	U-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20170726-64341.b\U326591.D
Lims ID: IC - List1 5
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 26-Jul-2017 13:10:30 ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 480-0064341-004
Operator ID: DR Instrument ID: HP5973U
Sublist: chrom-U-8270*sub56

Method: \\ChromNA\Buffalo\ChromData\HP5973U\20170726-64341.b\U-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 27-Jul-2017 16:40:48 Calib Date: 26-Jul-2017 18:28:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973U\20170726-64341.b\U326603.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK019

First Level Reviewer: richardsd Date: 26-Jul-2017 15:23:13

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	6.840	6.840	0.000	93	176201	40.0	40.0	
* 2 Naphthalene-d8	136	8.352	8.351	0.001	99	627560	40.0	40.0	
* 3 Acenaphthene-d10	164	10.408	10.408	0.000	97	305084	40.0	40.0	
* 4 Phenanthrene-d10	188	11.920	11.920	0.000	95	608290	40.0	40.0	
* 5 Chrysene-d12	240	14.308	14.308	0.000	97	766624	40.0	40.0	
* 6 Perylene-d12	264	15.868	15.868	0.000	97	795872	40.0	40.0	
$ 7 2-Fluorophenol	112	5.243	5.242	0.000	89	26323	5.00	4.96	
$ 8 Phenol-d5	99	6.359	6.359	0.000	98	31467	5.00	4.93	
$ 9 Nitrobenzene-d5	82	7.481	7.486	-0.005	87	22866	5.00	5.14	
$ 10 2-Fluorobiphenyl	172	9.612	9.618	-0.006	99	65951	5.00	4.76	
$ 11 2,4,6-Tribromophenol	330	11.231	11.236	-0.005	89	9351	5.00	5.39	
$ 12 p-Terphenyl-d14	244	13.325	13.325	0.000	99	86631	5.00	5.35	
23 1,4-Dioxane	88	2.812	2.812	0.000	94	12292	5.00	5.09	
24 N-Nitrosodimethylamine	42	3.282	3.282	0.000	91	10893	5.00	4.89	
25 Pyridine	52	3.389	3.383	0.006	98	21459	5.00	5.12	
32 Benzaldehyde	77	6.306	6.305	0.001	95	18940	5.00	5.74	
33 Phenol	94	6.375	6.375	0.000	96	32614	5.00	5.04	
34 Aniline	93	6.434	6.434	0.000	98	40931	5.00	5.03	
35 Bis(2-chloroethyl)ether	93	6.487	6.487	0.000	97	26424	5.00	5.05	
37 2-Chlorophenol	128	6.589	6.589	0.001	94	27643	5.00	4.82	
38 n-Decane	57	6.626	6.631	-0.005	87	30890	5.00	5.36	
39 1,3-Dichlorobenzene	146	6.781	6.781	0.000	97	35930	5.00	5.30	
40 1,4-Dichlorobenzene	146	6.861	6.861	0.000	93	35478	5.00	5.21	
41 Benzyl alcohol	108	6.973	6.973	0.000	97	15284	5.00	5.14	
42 1,2-Dichlorobenzene	146	7.048	7.048	0.000	98	34103	5.00	5.32	
43 2-Methylphenol	108	7.102	7.101	0.001	94	23419	5.00	4.82	
44 2,2'-oxybis[1-chloropropan	45	7.139	7.139	0.000	95	32188	5.00	5.38	
45 Indene	115	7.150	7.155	-0.005	89	161121	15.0	17.7	
46 4-Methylphenol	108	7.278	7.278	0.000	97	24304	5.00	4.78	
47 N-Nitrosodi-n-propylamine	70	7.283	7.283	0.000	83	16079	5.00	4.63	
49 Acetophenone	105	7.294	7.299	-0.005	97	35687	5.00	4.99	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
53 Hexachloroethane	117	7.460	7.459	0.001	89	11614	5.00	5.06	
54 Nitrobenzene	77	7.508	7.507	0.001	84	22466	5.00	5.06	
56 Isophorone	82	7.780	7.780	0.000	98	41356	5.00	4.73	
59 2-Nitrophenol	139	7.892	7.892	0.000	83	11353	5.00	5.45	
60 2,4-Dimethylphenol	107	7.908	7.908	0.000	91	24611	5.00	4.95	
62 Bis(2-chloroethoxy)methane	93	8.015	8.015	0.000	99	29296	5.00	5.12	
64 Benzoic acid	105	7.967	8.026	-0.059	87	15384	15.0	17.2	
67 2,4-Dichlorophenol	162	8.175	8.175	0.000	90	20833	5.00	4.59	
68 1,2,4-Trichlorobenzene	180	8.282	8.282	0.000	93	28912	5.00	5.40	
70 Naphthalene	128	8.378	8.378	0.000	96	89180	5.00	5.55	
72 4-Chloroaniline	127	8.416	8.416	0.000	98	32937	5.00	4.89	
73 2,6-Dichlorophenol	162	8.437	8.442	-0.005	97	21459	5.00	4.72	
74 Hexachlorobutadiene	225	8.528	8.528	0.000	93	16554	5.00	5.19	
76 Caprolactam	113	8.779	8.800	-0.021	55	5902	5.00	5.27	
80 4-Chloro-3-methylphenol	107	8.977	8.976	0.001	93	17994	5.00	4.40	
83 2-Methylnaphthalene	142	9.196	9.196	0.000	92	58300	5.00	5.40	
85 1-Methylnaphthalene	142	9.319	9.318	0.001	93	55055	5.00	5.49	
86 Hexachlorocyclopentadiene	237	9.393	9.393	0.000	93	11410	5.00	5.43	
87 1,2,4,5-Tetrachlorobenzene	216	9.404	9.404	0.000	95	28571	5.00	5.40	
89 2,4,6-Trichlorophenol	196	9.522	9.521	0.001	87	13397	5.00	5.26	
91 2,4,5-Trichlorophenol	196	9.570	9.569	0.001	94	14508	5.00	5.21	
94 1,1'-Biphenyl	154	9.741	9.740	0.001	94	70863	5.00	4.69	
95 2-Chloronaphthalene	162	9.773	9.778	-0.005	95	53061	5.00	5.39	
98 2-Nitroaniline	65	9.869	9.869	0.000	92	8134	5.00	5.40	
102 Dimethyl phthalate	163	10.061	10.061	0.000	100	57004	5.00	5.22	
103 1,3-Dinitrobenzene	168	10.104	10.104	0.000	95	6452	5.00	5.56	
104 2,6-Dinitrotoluene	165	10.131	10.136	-0.005	95	9748	5.00	5.30	
105 Acenaphthylene	152	10.254	10.253	0.001	98	71696	5.00	5.28	
106 3-Nitroaniline	138	10.328	10.328	0.000	96	10209	5.00	5.22	
107 2,4-Dinitrophenol	184	10.446	10.446	0.000	57	3876	10.0	11.2	
108 Acenaphthene	153	10.446	10.446	0.000	93	55641	5.00	5.49	
109 4-Nitrophenol	109	10.494	10.494	0.000	79	7557	10.0	10.3	
111 2,4-Dinitrotoluene	165	10.585	10.585	0.001	94	11989	5.00	5.26	
112 Dibenzofuran	168	10.627	10.627	0.000	97	79152	5.00	4.59	
116 2,3,4,6-Tetrachlorophenol	232	10.756	10.755	0.001	68	9550	5.00	5.22	
118 Diethyl phthalate	149	10.820	10.825	-0.005	99	53540	5.00	5.07	
119 Hexadecane	57	10.836	10.836	0.000	90	31413	5.00	5.32	
121 4-Chlorophenyl phenyl ethe	204	10.964	10.969	-0.005	87	33287	5.00	4.86	
122 4-Nitroaniline	138	10.975	10.980	-0.005	93	11634	5.00	5.08	
123 Fluorene	166	10.985	10.991	-0.005	93	64284	5.00	5.63	
125 4,6-Dinitro-2-methylphenol	198	11.017	11.023	-0.006	93	12590	10.0	10.8	
127 N-Nitrosodiphenylamine	169	11.082	11.081	0.001	61	45124	5.00	5.08	
128 Diphenylamine	169	11.082	11.081	0.001	93	45124	4.28	4.34	
130 Azobenzene	77	11.130	11.129	0.001	95	46058	5.00	4.90	
129 1,2-Diphenylhydrazine	77	11.130	11.129	0.001	98	46058	5.00	4.90	
137 4-Bromophenyl phenyl ether	248	11.461	11.461	0.000	59	19834	5.00	4.94	
139 Hexachlorobenzene	284	11.557	11.562	-0.005	96	24643	5.00	5.13	
141 Atrazine	200	11.584	11.589	-0.005	96	14856	5.00	4.58	
143 Pentachlorophenol	266	11.733	11.738	-0.005	93	10875	10.0	10.8	
144 n-Octadecane	57	11.744	11.744	0.000	95	29656	5.00	4.98	
150 Phenanthrene	178	11.942	11.941	0.001	95	96135	5.00	5.65	
151 Anthracene	178	11.990	11.990	0.000	95	91820	5.00	5.44	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
152 Carbazole	167	12.123	12.123	0.000	97	80170	5.00	5.30	
155 Di-n-butyl phthalate	149	12.390	12.390	0.000	99	79855	5.00	4.36	
162 Fluoranthene	202	13.026	13.031	-0.005	97	96246	5.00	5.43	
164 Benzidine	184	13.106	13.106	0.000	98	48615	5.00	4.81	
165 Pyrene	202	13.235	13.240	-0.006	97	102771	5.00	5.34	
172 Butyl benzyl phthalate	149	13.715	13.720	-0.005	94	33983	5.00	4.99	
178 Bis(2-ethylhexyl) phthalat	149	14.191	14.196	-0.005	95	48634	5.00	4.95	
179 3,3'-Dichlorobenzidine	252	14.234	14.233	0.001	72	38921	5.00	4.69	
181 Benzo[a]anthracene	228	14.298	14.297	0.001	97	113247	5.00	5.31	
182 Chrysene	228	14.330	14.335	-0.005	96	117281	5.00	5.63	
183 Di-n-octyl phthalate	149	14.784	14.784	0.000	98	87783	5.00	4.55	
185 Benzo[b]fluoranthene	252	15.393	15.398	-0.005	96	118502	5.00	5.28	
187 Benzo[k]fluoranthene	252	15.425	15.430	-0.005	97	129834	5.00	5.47	
190 Benzo[a]pyrene	252	15.799	15.799	0.000	76	110606	5.00	5.30	
193 Dibenz(a,h)anthracene	278	17.412	17.423	-0.011	89	118993	5.00	5.16	
194 Indeno[1,2,3-cd]pyrene	276	17.423	17.433	-0.010	97	135106	5.00	5.00	
195 Benzo[g,h,i]perylene	276	17.904	17.914	-0.010	97	114493	5.00	5.01	
S 257 3 & 4 Methylphenol	108				0			4.78	
S 256 3-Methylphenol	1				0			4.78	
S 254 Total Cresols	1				0			9.60	

Reagents:

MB_LIST1_WRK_00474	Amount Added: 1.00	Units: mL	
MB_INTSTD_STK_00036	Amount Added: 20.00	Units: uL	Run Reagent

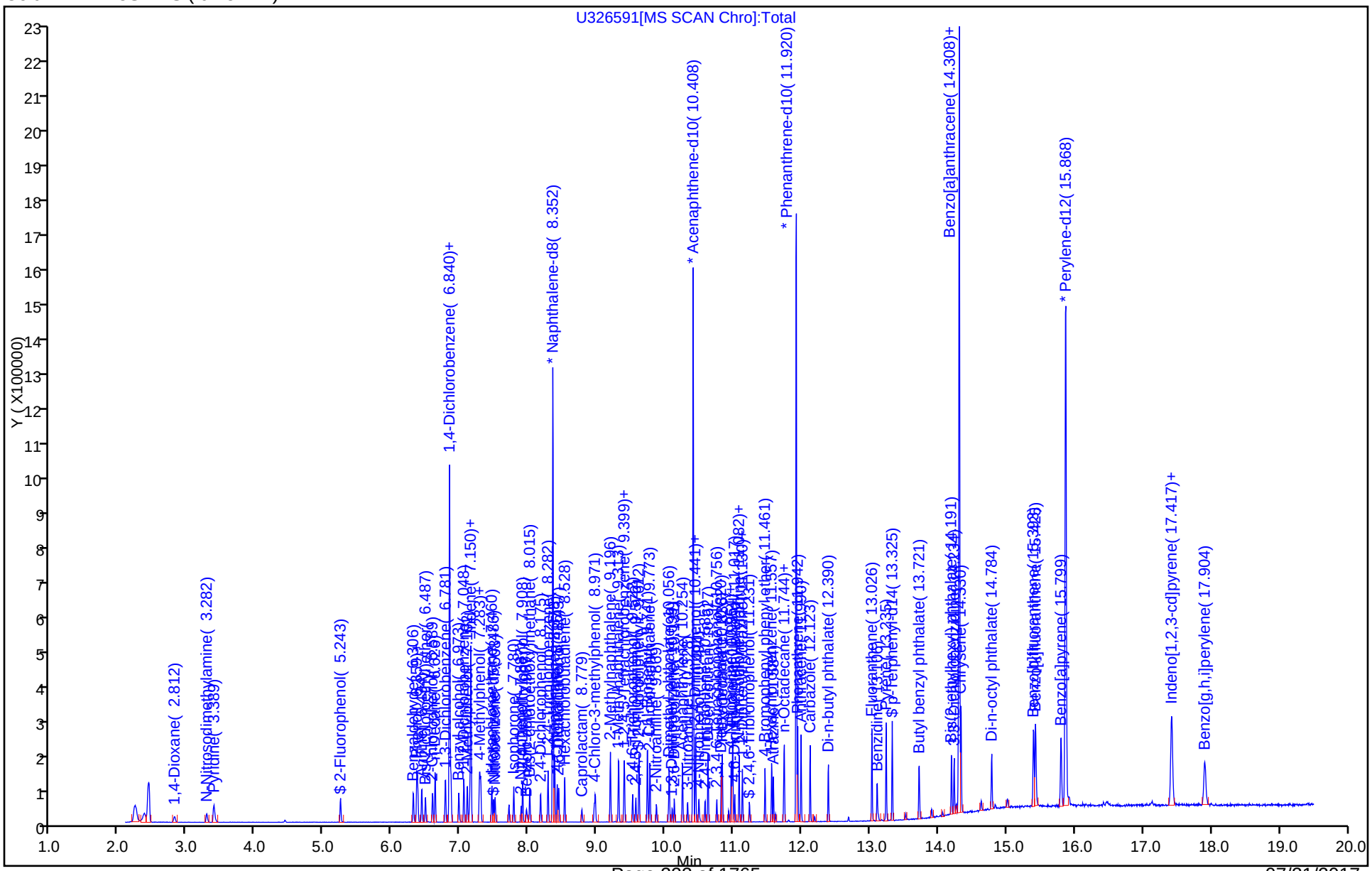
Report Date: 27-Jul-2017 16:40:49 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20170726-64341.b\U326591.D

Injection Date:	26-Jul-2017 13:10:30	Instrument ID:	HP5973U	Operator ID:	DR
Lims ID:	IC - List1 5			Worklist Smp#:	4
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	U-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20170726-64341.b\U326592.D
Lims ID: IC - List1 20
Client ID:
Sample Type: IC
Calib Level: 3
Inject. Date: 26-Jul-2017 13:36:30
ALS Bottle#: 5
Worklist Smp#: 5
Injection Vol: 1.0 ul
Dil. Factor: 1.0000
Sample Info: 480-0064341-005
Operator ID: DR
Instrument ID: HP5973U
Sublist: chrom-U-8270*sub56

Method: \\ChromNA\Buffalo\ChromData\HP5973U\20170726-64341.b\U-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 27-Jul-2017 16:40:51
Calib Date: 26-Jul-2017 18:28:30
Integrator: RTE
ID Type: Deconvolution ID
Quant Method: Internal Standard
Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973U\20170726-64341.b\U326603.D

Column 1 : RXI-5Sil MS (0.25 mm)
Det: MS SCAN
Process Host: XAWRK019

First Level Reviewer: richardsd
Date: 27-Jul-2017 13:53:52

	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	6.840	6.840	0.000	92	216731	40.0	40.0	
*	2 Naphthalene-d8	136	8.352	8.352	0.000	99	789518	40.0	40.0	
*	3 Acenaphthene-d10	164	10.408	10.408	0.000	96	406534	40.0	40.0	
*	4 Phenanthrene-d10	188	11.920	11.920	0.000	95	796513	40.0	40.0	
*	5 Chrysene-d12	240	14.308	14.308	0.000	97	978074	40.0	40.0	
*	6 Perylene-d12	264	15.868	15.868	0.000	97	984117	40.0	40.0	
$	7 2-Fluorophenol	112	5.242	5.242	0.000	90	129410	20.0	19.8	
$	8 Phenol-d5	99	6.359	6.359	0.000	97	157590	20.0	20.1	
$	9 Nitrobenzene-d5	82	7.481	7.481	0.000	85	119936	20.0	19.5	
$	10 2-Fluorobiphenyl	172	9.612	9.612	0.000	99	325810	20.0	20.7	
$	11 2,4,6-Tribromophenol	330	11.236	11.236	0.000	89	61494	20.0	19.0	
$	12 p-Terphenyl-d14	244	13.325	13.325	0.000	96	443966	20.0	21.5	
	23 1,4-Dioxane	88	2.806	2.806	0.000	94	59458	20.0	20.0	
	24 N-Nitrosodimethylamine	42	3.276	3.276	0.000	92	54317	20.0	19.8	
	25 Pyridine	52	3.378	3.378	0.000	97	102967	20.0	20.0	
	32 Benzaldehyde	77	6.306	6.306	0.000	95	96748	20.0	23.8	
	33 Phenol	94	6.375	6.375	0.000	96	158769	20.0	19.9	
	34 Aniline	93	6.434	6.434	0.000	98	200814	20.0	20.1	
	35 Bis(2-chloroethyl)ether	93	6.487	6.487	0.000	98	132239	20.0	20.5	
	37 2-Chlorophenol	128	6.589	6.589	0.000	94	142332	20.0	20.2	
	38 n-Decane	57	6.626	6.626	0.000	87	145276	20.0	20.5	
	39 1,3-Dichlorobenzene	146	6.781	6.781	0.000	98	170384	20.0	20.4	
	40 1,4-Dichlorobenzene	146	6.861	6.861	0.000	96	170575	20.0	20.4	
	41 Benzyl alcohol	108	6.973	6.973	0.000	96	80859	20.0	19.3	
	42 1,2-Dichlorobenzene	146	7.048	7.048	0.000	98	159305	20.0	20.2	
	43 2-Methylphenol	108	7.102	7.102	0.000	94	119496	20.0	20.0	
	44 2,2'-oxybis[1-chloropropan	45	7.139	7.139	0.000	95	152423	20.0	20.7	
	45 Indene	115	7.150	7.150	0.000	89	734129	60.0	65.6	
	46 4-Methylphenol	108	7.278	7.278	0.000	98	126859	20.0	20.3	
	47 N-Nitrosodi-n-propylamine	70	7.283	7.283	0.000	82	86404	20.0	20.2	
	49 Acetophenone	105	7.294	7.294	0.000	97	179630	20.0	20.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
53 Hexachloroethane	117	7.459	7.459	0.000	91	56032	20.0	19.8	
54 Nitrobenzene	77	7.508	7.508	0.000	83	119098	20.0	19.8	
56 Isophorone	82	7.780	7.780	0.000	98	224876	20.0	20.5	
59 2-Nitrophenol	139	7.887	7.887	0.000	87	64187	20.0	18.5	
60 2,4-Dimethylphenol	107	7.908	7.908	0.000	90	126835	20.0	20.3	
62 Bis(2-chloroethoxy)methane	93	8.015	8.015	0.000	99	149325	20.0	20.7	
64 Benzoic acid	105	7.999	7.999	0.000	85	184487	60.0	53.9	M
67 2,4-Dichlorophenol	162	8.175	8.175	0.000	90	113194	20.0	19.8	
68 1,2,4-Trichlorobenzene	180	8.282	8.282	0.000	94	135647	20.0	20.1	
70 Naphthalene	128	8.378	8.378	0.000	94	416908	20.0	20.6	
72 4-Chloroaniline	127	8.416	8.416	0.000	98	172263	20.0	20.3	
73 2,6-Dichlorophenol	162	8.437	8.437	0.000	96	116053	20.0	20.3	
74 Hexachlorobutadiene	225	8.528	8.528	0.000	94	81162	20.0	20.2	
76 Caprolactam	113	8.790	8.790	0.000	87	36842	20.0	19.1	
80 4-Chloro-3-methylphenol	107	8.977	8.977	0.000	93	102734	20.0	20.0	
83 2-Methylnaphthalene	142	9.196	9.196	0.000	92	288722	20.0	21.3	
85 1-Methylnaphthalene	142	9.313	9.313	0.000	93	267730	20.0	21.2	
86 Hexachlorocyclopentadiene	237	9.393	9.393	0.000	94	76212	20.0	18.5	
87 1,2,4,5-Tetrachlorobenzene	216	9.404	9.404	0.000	95	139504	20.0	19.8	
89 2,4,6-Trichlorophenol	196	9.522	9.522	0.000	89	78981	20.0	19.1	
91 2,4,5-Trichlorophenol	196	9.570	9.570	0.000	96	84677	20.0	19.5	
94 1,1'-Biphenyl	154	9.741	9.741	0.000	95	352422	20.0	20.8	
95 2-Chloronaphthalene	162	9.773	9.773	0.000	95	264691	20.0	20.2	
98 2-Nitroaniline	65	9.869	9.869	0.000	91	51695	20.0	18.4	
102 Dimethyl phthalate	163	10.061	10.061	0.000	100	302266	20.0	20.8	
103 1,3-Dinitrobenzene	168	10.104	10.104	0.000	97	40569	20.0	18.4	
104 2,6-Dinitrotoluene	165	10.136	10.136	0.000	93	62328	20.0	18.9	
105 Acenaphthylene	152	10.253	10.253	0.000	98	385902	20.0	21.3	
106 3-Nitroaniline	138	10.328	10.328	0.000	95	67704	20.0	19.2	
108 Acenaphthene	153	10.446	10.446	0.000	93	277336	20.0	20.5	
107 2,4-Dinitrophenol	184	10.446	10.446	0.000	62	58629	40.0	36.4	
109 4-Nitrophenol	109	10.494	10.494	0.000	81	58947	40.0	39.2	
111 2,4-Dinitrotoluene	165	10.585	10.585	0.000	95	81533	20.0	19.1	
112 Dibenzofuran	168	10.627	10.627	0.000	97	389695	20.0	21.2	
116 2,3,4,6-Tetrachlorophenol	232	10.756	10.756	0.000	70	69486	20.0	19.2	
118 Diethyl phthalate	149	10.820	10.820	0.000	99	295938	20.0	21.0	
119 Hexadecane	57	10.836	10.836	0.000	92	160858	20.0	20.5	
121 4-Chlorophenyl phenyl ethe	204	10.969	10.969	0.000	86	161662	20.0	20.2	
122 4-Nitroaniline	138	10.980	10.980	0.000	94	74796	20.0	19.6	
123 Fluorene	166	10.991	10.991	0.000	94	320308	20.0	21.1	
125 4,6-Dinitro-2-methylphenol	198	11.017	11.017	0.000	95	97028	40.0	37.7	
128 Diphenylamine	169	11.082	11.082	0.000	93	236012	17.1	17.4	
127 N-Nitrosodiphenylamine	169	11.082	11.082	0.000	61	236012	20.0	20.3	
129 1,2-Diphenylhydrazine	77	11.130	11.130	0.000	98	256279	20.0	20.8	
130 Azobenzene	77	11.130	11.130	0.000	95	256279	20.0	20.8	
137 4-Bromophenyl phenyl ether	248	11.461	11.461	0.000	59	106341	20.0	20.2	
139 Hexachlorobenzene	284	11.562	11.562	0.000	96	127826	20.0	20.3	
141 Atrazine	200	11.584	11.584	0.000	96	90988	20.0	21.5	
143 Pentachlorophenol	266	11.733	11.733	0.000	94	101882	40.0	37.5	
144 n-Octadecane	57	11.744	11.744	0.000	96	164227	20.0	21.1	
150 Phenanthrene	178	11.942	11.942	0.000	96	465520	20.0	20.9	
151 Anthracene	178	11.990	11.990	0.000	96	479789	20.0	21.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
152 Carbazole	167	12.123	12.123	0.000	97	420906	20.0	21.3	
155 Di-n-butyl phthalate	149	12.390	12.390	0.000	99	484345	20.0	22.0	
162 Fluoranthene	202	13.026	13.026	0.000	95	507487	20.0	21.9	
164 Benzidine	184	13.106	13.106	0.000	99	304308	20.0	23.6	
165 Pyrene	202	13.234	13.234	0.000	97	534674	20.0	21.8	
172 Butyl benzyl phthalate	149	13.721	13.721	0.000	94	209138	20.0	20.0	
178 Bis(2-ethylhexyl) phthalat	149	14.196	14.196	0.000	94	300031	20.0	20.1	
179 3,3'-Dichlorobenzidine	252	14.233	14.233	0.000	72	216283	20.0	20.4	
181 Benzo[a]anthracene	228	14.298	14.298	0.000	97	559816	20.0	20.6	
182 Chrysene	228	14.335	14.335	0.000	97	548468	20.0	20.6	
183 Di-n-octyl phthalate	149	14.784	14.784	0.000	98	498490	20.0	20.3	
185 Benzo[b]fluoranthene	252	15.398	15.398	0.000	96	607767	20.0	21.9	
187 Benzo[k]fluoranthene	252	15.425	15.425	0.000	98	599618	20.0	20.4	
190 Benzo[a]pyrene	252	15.799	15.799	0.000	77	535552	20.0	20.7	
193 Dibenz(a,h)anthracene	278	17.417	17.417	0.000	90	557764	20.0	19.4	
194 Indeno[1,2,3-cd]pyrene	276	17.428	17.428	0.000	98	652979	20.0	19.3	
195 Benzo[g,h,i]perylene	276	17.909	17.909	0.000	97	537719	20.0	18.8	
S 254 Total Cresols	1				0			40.3	
S 257 3 & 4 Methylphenol	108				0			20.3	
S 256 3-Methylphenol	1				0			20.3	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

MB_LIST1_WRK_00475	Amount Added: 1.00	Units: mL	
MB_INTSTD_STK_00036	Amount Added: 20.00	Units: uL	Run Reagent

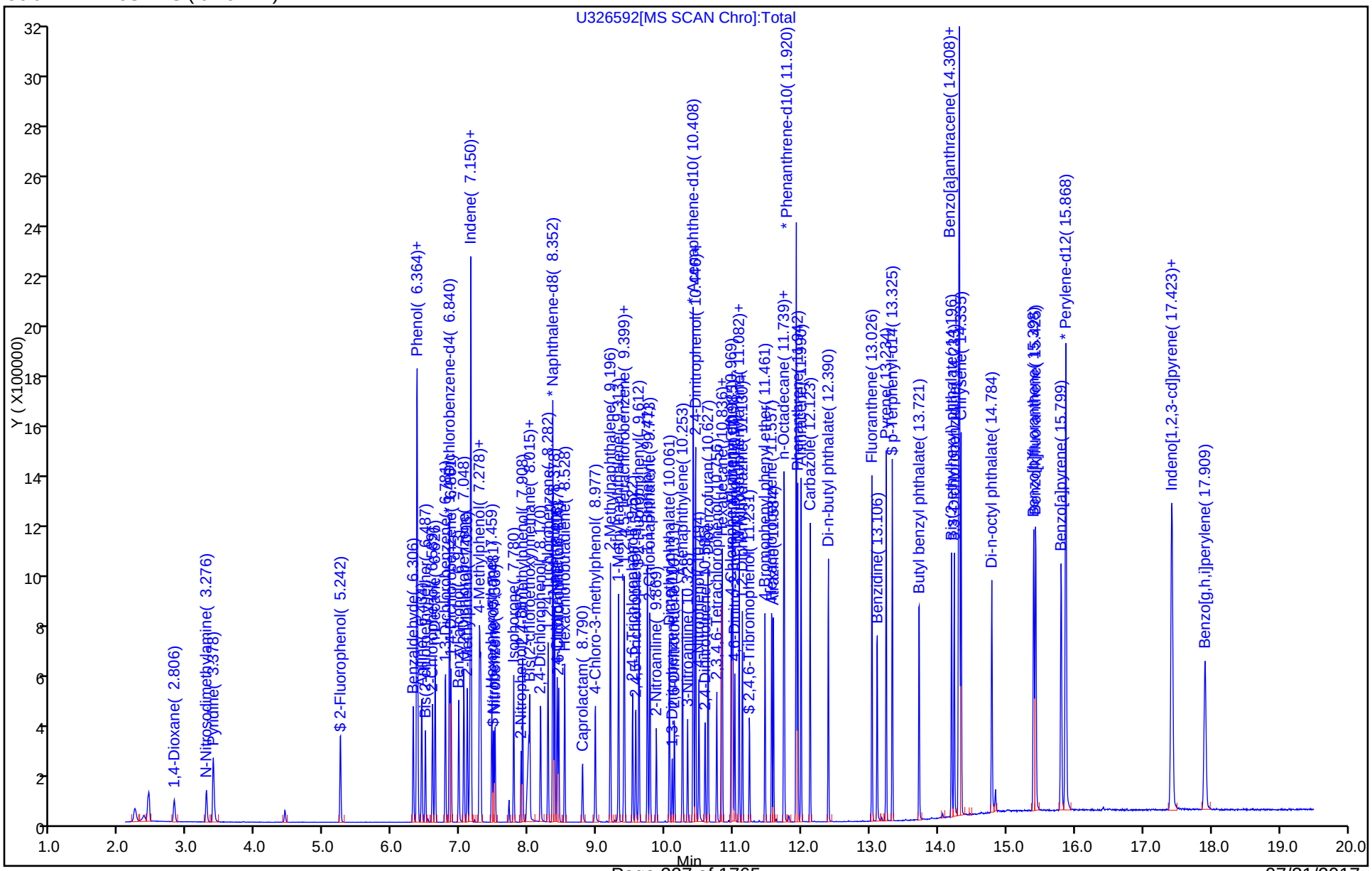
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TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20170726-64341.b\U326592.D

Injection Date:	26-Jul-2017 13:36:30	Instrument ID:	HP5973U	Operator ID:	DR
Lims ID:	IC - List1 20			Worklist Smp#:	5
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	U-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

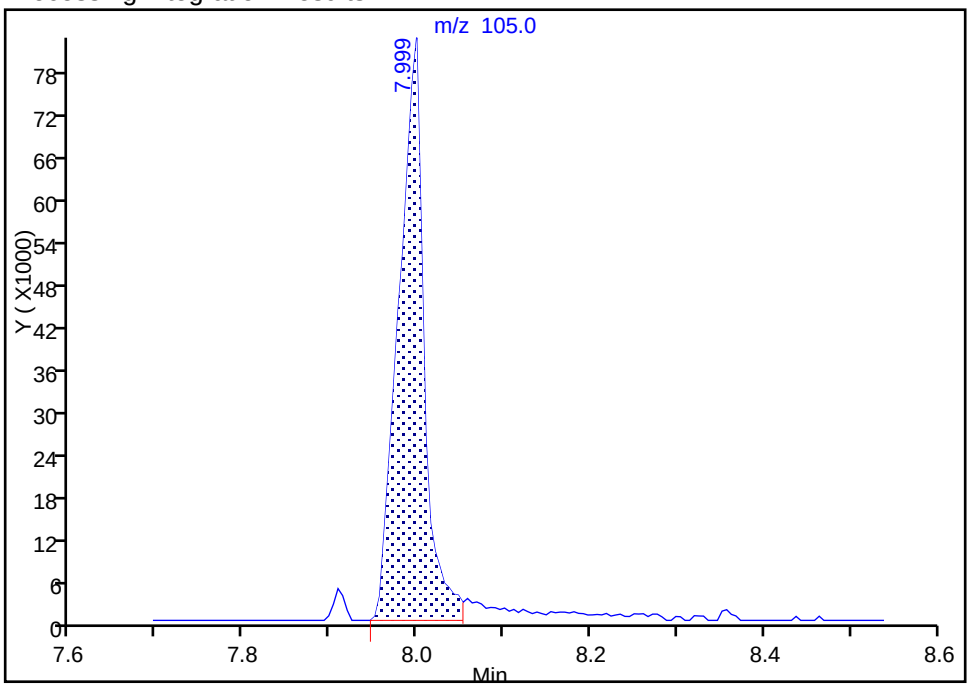
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Injection Date: 26-Jul-2017 13:36:30 Instrument ID: HP5973U
Lims ID: IC - List1 20
Client ID:
Operator ID: DR ALS Bottle#: 5 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: U-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

64 Benzoic acid, CAS: 65-85-0

Signal: 1

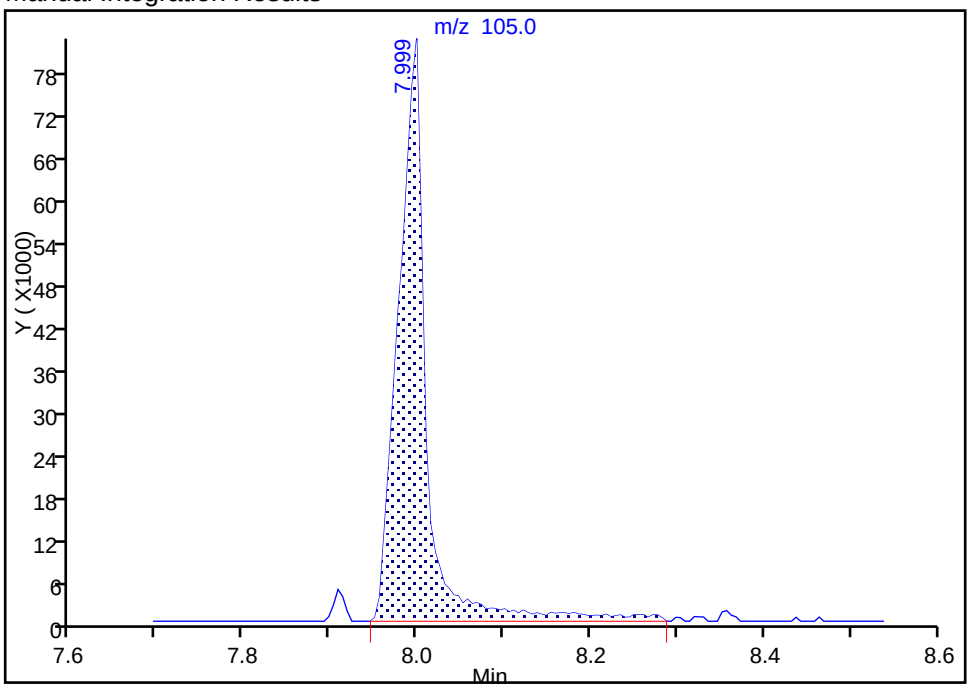
Processing Integration Results

RT: 8.00
Area: 167850
Amount: 51.490295
Amount Units: ng/uL



Manual Integration Results

RT: 8.00
Area: 184487
Amount: 53.904796
Amount Units: ng/uL



Reviewer: pagem, 27-Jul-2017 15:48:22
Audit Action: Manually Integrated Audit Reason: Peak Tail

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20170726-64341.b\U326593.D
Lims ID: ICIS - List1 50
Client ID:
Sample Type: ICIS Calib Level: 4
Inject. Date: 26-Jul-2017 14:03:30 ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 480-0064341-006
Operator ID: DR Instrument ID: HP5973U
Sublist: chrom-U-8270*sub56

Method: \\ChromNA\Buffalo\ChromData\HP5973U\20170726-64341.b\U-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 27-Jul-2017 16:40:55 Calib Date: 26-Jul-2017 18:28:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973U\20170726-64341.b\U326603.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK019

First Level Reviewer: richardsd Date: 27-Jul-2017 13:54:17

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.840	6.840	0.000	92	180182	40.0	40.0	
* 2 Naphthalene-d8	136	8.351	8.351	0.000	99	664584	40.0	40.0	
* 3 Acenaphthene-d10	164	10.408	10.408	0.000	97	333212	40.0	40.0	
* 4 Phenanthrene-d10	188	11.920	11.920	0.000	95	650153	40.0	40.0	
* 5 Chrysene-d12	240	14.308	14.308	0.000	97	797970	40.0	40.0	
* 6 Perylene-d12	264	15.868	15.868	0.000	97	791821	40.0	40.0	
$ 7 2-Fluorophenol	112	5.242	5.242	0.000	90	283319	50.0	52.2	
$ 8 Phenol-d5	99	6.359	6.359	0.000	98	337933	50.0	51.8	
$ 9 Nitrobenzene-d5	82	7.486	7.486	0.000	85	259570	50.0	49.1	
$ 10 2-Fluorobiphenyl	172	9.618	9.618	0.000	99	642308	50.0	51.4	
$ 11 2,4,6-Tribromophenol	330	11.236	11.236	0.000	89	131376	50.0	46.5	
$ 12 p-Terphenyl-d14	244	13.325	13.325	0.000	96	849442	50.0	50.4	
23 1,4-Dioxane	88	2.812	2.812	0.000	93	129420	50.0	52.4	
24 N-Nitrosodimethylamine	42	3.282	3.282	0.000	92	117651	50.0	51.6	
25 Pyridine	52	3.383	3.383	0.000	97	219382	50.0	51.2	
32 Benzaldehyde	77	6.305	6.305	0.000	95	172354	50.0	51.1	
33 Phenol	94	6.375	6.375	0.000	97	337018	50.0	50.9	
34 Aniline	93	6.434	6.434	0.000	98	428136	50.0	51.5	
35 Bis(2-chloroethyl)ether	93	6.487	6.487	0.000	99	270180	50.0	50.5	
37 2-Chlorophenol	128	6.589	6.589	0.000	95	302873	50.0	51.7	
38 n-Decane	57	6.631	6.631	0.000	87	300662	50.0	51.0	
39 1,3-Dichlorobenzene	146	6.781	6.781	0.000	98	348492	50.0	50.3	
40 1,4-Dichlorobenzene	146	6.861	6.861	0.000	96	354544	50.0	50.9	
41 Benzyl alcohol	108	6.973	6.973	0.000	97	178741	50.0	49.9	
42 1,2-Dichlorobenzene	146	7.048	7.048	0.000	99	332632	50.0	50.8	
43 2-Methylphenol	108	7.101	7.101	0.000	94	254956	50.0	51.3	
44 2,2'-oxybis[1-chloropropan	45	7.139	7.139	0.000	94	306944	50.0	50.2	
45 Indene	115	7.155	7.155	0.000	89	1445963	150.0	155.3	
46 4-Methylphenol	108	7.278	7.278	0.000	98	268626	50.0	51.7	
47 N-Nitrosodi-n-propylamine	70	7.283	7.283	0.000	84	182830	50.0	51.5	
49 Acetophenone	105	7.299	7.299	0.000	95	375637	50.0	51.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
53 Hexachloroethane	117	7.459	7.459	0.000	92	118918	50.0	50.6	
54 Nitrobenzene	77	7.507	7.507	0.000	84	255607	50.0	49.7	
56 Isophorone	82	7.780	7.780	0.000	98	473267	50.0	51.1	
59 2-Nitrophenol	139	7.892	7.892	0.000	84	147226	50.0	47.4	
60 2,4-Dimethylphenol	107	7.908	7.908	0.000	90	261424	50.0	49.7	
62 Bis(2-chloroethoxy)methane	93	8.015	8.015	0.000	99	302015	50.0	49.8	
64 Benzoic acid	105	8.026	8.026	0.000	85	452018	150.0	132.3	M
67 2,4-Dichlorophenol	162	8.175	8.175	0.000	90	243256	50.0	50.6	
68 1,2,4-Trichlorobenzene	180	8.282	8.282	0.000	94	278153	50.0	49.1	
70 Naphthalene	128	8.378	8.378	0.000	97	838699	50.0	49.3	
72 4-Chloroaniline	127	8.416	8.416	0.000	98	359486	50.0	50.4	
73 2,6-Dichlorophenol	162	8.442	8.442	0.000	96	242633	50.0	50.4	
74 Hexachlorobutadiene	225	8.528	8.528	0.000	94	164168	50.0	48.6	
76 Caprolactam	113	8.800	8.800	0.000	86	83431	50.0	48.3	
80 4-Chloro-3-methylphenol	107	8.976	8.976	0.000	93	223030	50.0	51.5	
83 2-Methylnaphthalene	142	9.196	9.196	0.000	92	583363	50.0	51.0	
85 1-Methylnaphthalene	142	9.318	9.318	0.000	93	536970	50.0	50.6	
86 Hexachlorocyclopentadiene	237	9.393	9.393	0.000	94	171979	50.0	47.3	
87 1,2,4,5-Tetrachlorobenzene	216	9.404	9.404	0.000	96	281936	50.0	48.8	
89 2,4,6-Trichlorophenol	196	9.521	9.521	0.000	89	170890	50.0	48.3	
91 2,4,5-Trichlorophenol	196	9.569	9.569	0.000	95	175872	50.0	47.8	
94 1,1'-Biphenyl	154	9.740	9.740	0.000	95	705505	50.0	52.6	
95 2-Chloronaphthalene	162	9.778	9.778	0.000	96	536125	50.0	49.9	
98 2-Nitroaniline	65	9.869	9.869	0.000	91	119963	50.0	48.5	
102 Dimethyl phthalate	163	10.061	10.061	0.000	100	604687	50.0	50.7	
103 1,3-Dinitrobenzene	168	10.104	10.104	0.000	96	92218	50.0	45.7	
104 2,6-Dinitrotoluene	165	10.136	10.136	0.000	93	139917	50.0	48.6	
105 Acenaphthylene	152	10.253	10.253	0.000	98	781551	50.0	52.7	
106 3-Nitroaniline	138	10.328	10.328	0.000	95	149195	50.0	48.8	
107 2,4-Dinitrophenol	184	10.446	10.446	0.000	64	143605	100.0	91.2	
108 Acenaphthene	153	10.446	10.446	0.000	92	551002	50.0	49.8	
109 4-Nitrophenol	109	10.494	10.494	0.000	81	127831	100.0	96.6	
111 2,4-Dinitrotoluene	165	10.585	10.585	0.000	94	180154	50.0	48.4	
112 Dibenzofuran	168	10.627	10.627	0.000	96	768105	50.0	53.1	
116 2,3,4,6-Tetrachlorophenol	232	10.755	10.755	0.000	70	155980	50.0	49.0	
118 Diethyl phthalate	149	10.825	10.825	0.000	99	592372	50.0	51.4	
119 Hexadecane	57	10.836	10.836	0.000	92	328125	50.0	50.9	
121 4-Chlorophenyl phenyl ethe	204	10.969	10.969	0.000	86	328989	50.0	51.7	
122 4-Nitroaniline	138	10.980	10.980	0.000	93	162379	50.0	49.9	
123 Fluorene	166	10.991	10.991	0.000	93	634332	50.0	50.9	
125 4,6-Dinitro-2-methylphenol	198	11.023	11.023	0.000	95	213172	100.0	92.6	
127 N-Nitrosodiphenylamine	169	11.081	11.081	0.000	61	478343	50.0	50.4	
128 Diphenylamine	169	11.081	11.081	0.000	93	478343	42.8	43.1	
130 Azobenzene	77	11.129	11.129	0.000	96	509251	50.0	50.6	
129 1,2-Diphenylhydrazine	77	11.129	11.129	0.000	99	509251	50.0	50.6	
137 4-Bromophenyl phenyl ether	248	11.461	11.461	0.000	59	213580	50.0	49.8	
139 Hexachlorobenzene	284	11.562	11.562	0.000	96	253686	50.0	49.4	
141 Atrazine	200	11.589	11.589	0.000	97	179964	50.0	51.9	
143 Pentachlorophenol	266	11.738	11.738	0.000	95	233599	100.0	93.6	
144 n-Octadecane	57	11.744	11.744	0.000	96	325869	50.0	51.2	
150 Phenanthrene	178	11.941	11.941	0.000	96	900656	50.0	49.5	
151 Anthracene	178	11.990	11.990	0.000	96	933176	50.0	51.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
152 Carbazole	167	12.123	12.123	0.000	97	820507	50.0	50.8	
155 Di-n-butyl phthalate	149	12.390	12.390	0.000	99	954519	50.0	53.9	
162 Fluoranthene	202	13.031	13.031	0.000	95	976891	50.0	51.6	
164 Benzidine	184	13.106	13.106	0.000	98	546751	50.0	51.9	
165 Pyrene	202	13.240	13.240	0.000	96	1042110	50.0	52.1	
172 Butyl benzyl phthalate	149	13.720	13.720	0.000	95	438876	50.0	49.7	
178 Bis(2-ethylhexyl) phthalat	149	14.196	14.196	0.000	94	628624	50.0	50.1	
179 3,3'-Dichlorobenzidine	252	14.233	14.233	0.000	72	438637	50.0	50.7	
181 Benzo[a]anthracene	228	14.297	14.297	0.000	98	1089559	50.0	49.1	
182 Chrysene	228	14.335	14.335	0.000	96	1038746	50.0	47.9	
183 Di-n-octyl phthalate	149	14.784	14.784	0.000	98	1029056	50.0	51.2	
185 Benzo[b]fluoranthene	252	15.398	15.398	0.000	97	1154260	50.0	51.6	
187 Benzo[k]fluoranthene	252	15.430	15.430	0.000	98	1217411	50.0	51.5	
190 Benzo[a]pyrene	252	15.799	15.799	0.000	78	1084735	50.0	52.2	
193 Dibenz(a,h)anthracene	278	17.423	17.423	0.000	93	1171526	50.0	50.4	
194 Indeno[1,2,3-cd]pyrene	276	17.433	17.433	0.000	96	1362360	50.0	49.8	
195 Benzo[g,h,i]perylene	276	17.914	17.914	0.000	97	1150076	50.0	49.7	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

MB_LIST1_WRK_00476	Amount Added: 1.00	Units: mL	
MB_INTSTD_STK_00036	Amount Added: 20.00	Units: uL	Run Reagent

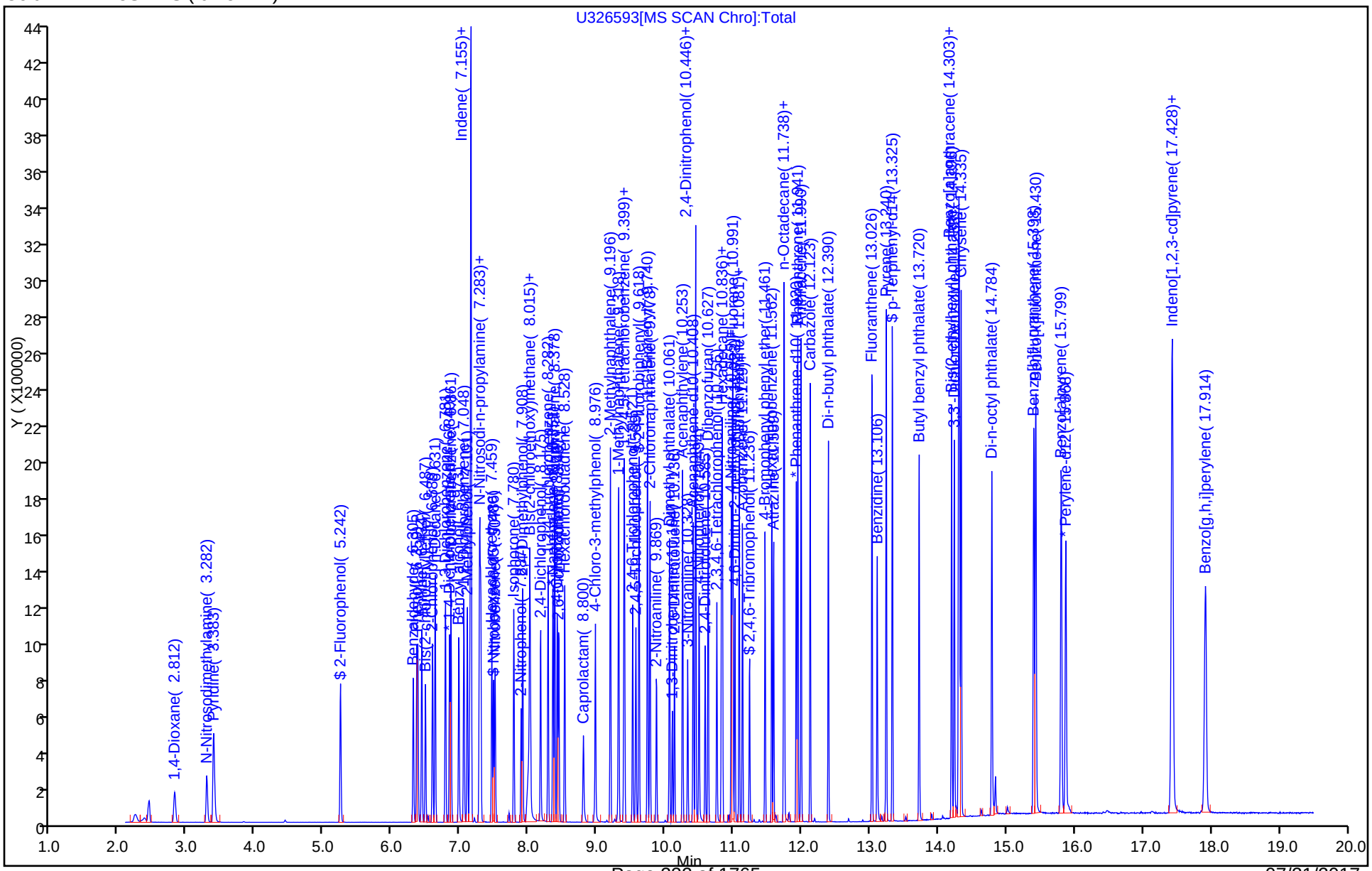
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TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20170726-64341.b\U326593.D

Injection Date:	26-Jul-2017 14:03:30	Instrument ID:	HP5973U	Operator ID:	DR
Lims ID:	ICIS - List1 50			Worklist Smp#:	6
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	U-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

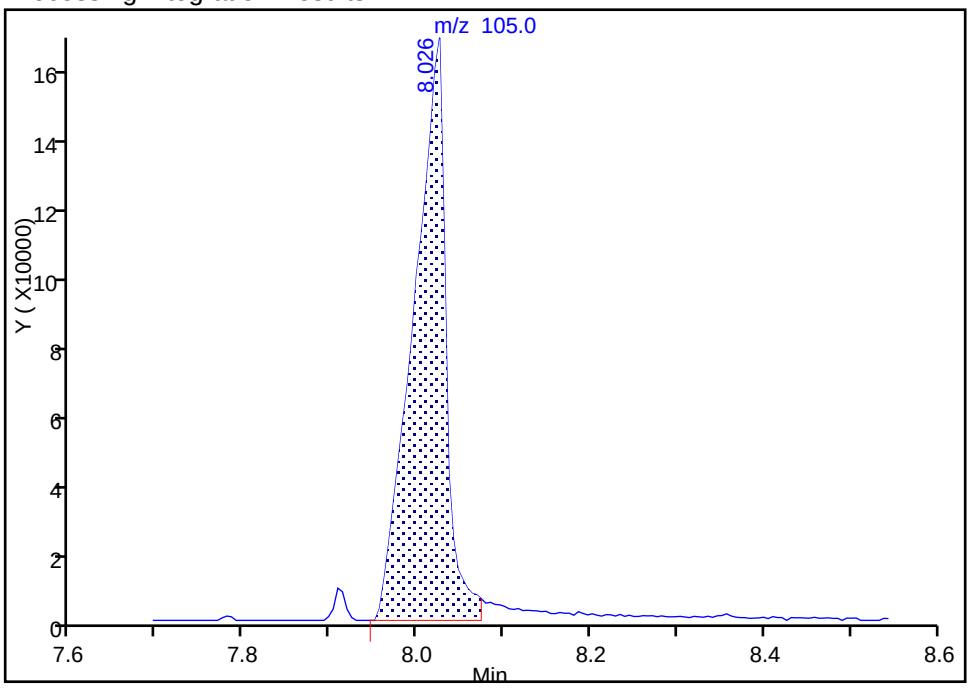
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Injection Date: 26-Jul-2017 14:03:30 Instrument ID: HP5973U
Lims ID: ICIS - List1 50
Client ID:
Operator ID: DR ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: U-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

64 Benzoic acid, CAS: 65-85-0

Signal: 1

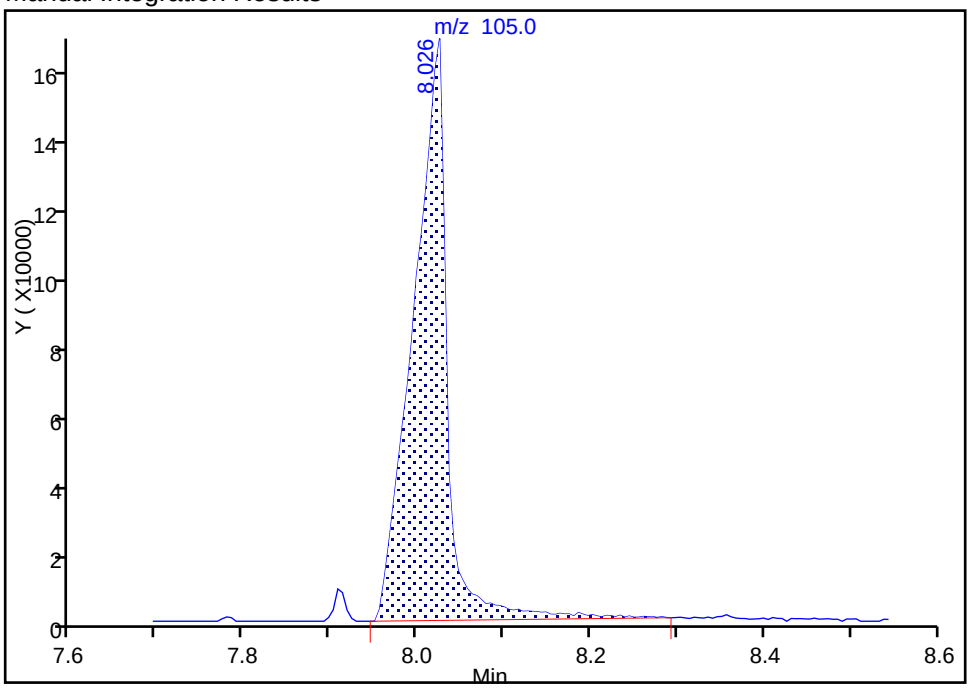
Processing Integration Results

RT: 8.03
Area: 433490
Amount: 129.3158
Amount Units: ng/uL



Manual Integration Results

RT: 8.03
Area: 452018
Amount: 132.3025
Amount Units: ng/uL



Reviewer: pagem, 27-Jul-2017 15:48:47
Audit Action: Manually Integrated Audit Reason: Peak Tail

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20170726-64341.b\U326594.D
Lims ID: IC - List1 80
Client ID:
Sample Type: IC
Calib Level: 5
Inject. Date: 26-Jul-2017 14:29:30
ALS Bottle#: 7
Worklist Smp#: 7
Injection Vol: 1.0 ul
Dil. Factor: 1.0000
Sample Info: 480-0064341-007
Operator ID: DR
Instrument ID: HP5973U
Sublist: chrom-U-8270*sub56

Method: \\ChromNA\Buffalo\ChromData\HP5973U\20170726-64341.b\U-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 27-Jul-2017 16:40:58
Calib Date: 26-Jul-2017 18:28:30
Integrator: RTE
ID Type: Deconvolution ID
Quant Method: Internal Standard
Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973U\20170726-64341.b\U326603.D

Column 1 : RXI-5Sil MS (0.25 mm)
Det: MS SCAN
Process Host: XAWRK019

First Level Reviewer: richardsd
Date: 27-Jul-2017 13:54:42

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	6.840	6.840	0.000	92	271626	40.0	40.0	
* 2 Naphthalene-d8	136	8.357	8.351	0.006	99	968558	40.0	40.0	
* 3 Acenaphthene-d10	164	10.408	10.408	0.000	96	480771	40.0	40.0	
* 4 Phenanthrene-d10	188	11.920	11.920	0.000	95	911333	40.0	40.0	
* 5 Chrysene-d12	240	14.313	14.308	0.005	96	1122366	40.0	40.0	
* 6 Perylene-d12	264	15.873	15.868	0.005	97	1172899	40.0	40.0	
$ 7 2-Fluorophenol	112	5.242	5.242	0.000	91	654937	80.0	80.0	
$ 8 Phenol-d5	99	6.364	6.359	0.005	76	780001	80.0	79.4	
$ 9 Nitrobenzene-d5	82	7.486	7.486	0.000	85	625720	80.0	80.8	
$ 10 2-Fluorobiphenyl	172	9.618	9.618	0.000	98	1439674	80.0	80.5	
$ 11 2,4,6-Tribromophenol	330	11.236	11.236	0.000	89	324734	80.0	80.4	
$ 12 p-Terphenyl-d14	244	13.330	13.325	0.005	97	1793554	80.0	75.6	
23 1,4-Dioxane	88	2.806	2.812	-0.006	93	288291	80.0	77.5	
24 N-Nitrosodimethylamine	42	3.282	3.282	0.000	92	274661	80.0	80.0	
25 Pyridine	52	3.378	3.383	-0.005	98	508768	80.0	78.7	
32 Benzaldehyde	77	6.311	6.305	0.006	95	355069	80.0	69.8	
33 Phenol	94	6.380	6.375	0.005	97	793698	80.0	79.5	
34 Aniline	93	6.434	6.434	0.000	97	992371	80.0	79.2	
35 Bis(2-chloroethyl)ether	93	6.487	6.487	0.000	98	634873	80.0	78.7	
37 2-Chlorophenol	128	6.594	6.589	0.006	95	707590	80.0	80.1	
38 n-Decane	57	6.631	6.631	0.000	87	679566	80.0	76.4	
39 1,3-Dichlorobenzene	146	6.781	6.781	0.000	98	805909	80.0	77.2	
40 1,4-Dichlorobenzene	146	6.861	6.861	0.000	95	812156	80.0	77.3	
41 Benzyl alcohol	108	6.979	6.973	0.006	97	438248	80.0	80.7	
42 1,2-Dichlorobenzene	146	7.048	7.048	0.000	98	755094	80.0	76.5	
43 2-Methylphenol	108	7.101	7.101	0.000	94	605188	80.0	80.7	
44 2,2'-oxybis[1-chloropropan	45	7.139	7.139	0.000	94	701839	80.0	76.1	
45 Indene	115	7.155	7.155	0.000	90	2960503	240.0	211.0	
46 4-Methylphenol	108	7.283	7.278	0.005	96	631276	80.0	80.6	
47 N-Nitrosodi-n-propylamine	70	7.288	7.283	0.005	83	435253	80.0	81.3	
49 Acetophenone	105	7.299	7.299	0.000	96	865187	80.0	78.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
53 Hexachloroethane	117	7.459	7.459	0.000	92	280961	80.0	79.4	
54 Nitrobenzene	77	7.513	7.507	0.006	84	605425	80.0	80.5	
56 Isophorone	82	7.785	7.780	0.005	98	1094930	80.0	81.2	
59 2-Nitrophenol	139	7.892	7.892	0.000	86	368999	80.0	80.3	
60 2,4-Dimethylphenol	107	7.913	7.908	0.005	91	617035	80.0	80.5	
64 Benzoic acid	105	8.074	8.026	0.048	85	1267776	240.0	242.7	M
62 Bis(2-chloroethoxy)methane	93	8.015	8.015	0.000	99	697316	80.0	78.9	
67 2,4-Dichlorophenol	162	8.175	8.175	0.000	90	585789	80.0	83.6	
68 1,2,4-Trichlorobenzene	180	8.282	8.282	0.000	95	641843	80.0	77.7	
70 Naphthalene	128	8.384	8.378	0.006	98	1834680	80.0	74.0	
72 4-Chloroaniline	127	8.421	8.416	0.005	97	836768	80.0	80.5	
73 2,6-Dichlorophenol	162	8.442	8.442	0.000	97	572217	80.0	81.6	
74 Hexachlorobutadiene	225	8.528	8.528	0.000	94	391718	80.0	79.6	
76 Caprolactam	113	8.827	8.800	0.027	86	205919	80.0	80.6	
80 4-Chloro-3-methylphenol	107	8.982	8.976	0.006	93	526555	80.0	83.5	
83 2-Methylnaphthalene	142	9.196	9.196	0.000	91	1304251	80.0	78.3	
85 1-Methylnaphthalene	142	9.318	9.318	0.000	92	1214049	80.0	78.5	
86 Hexachlorocyclopentadiene	237	9.393	9.393	0.000	95	436422	80.0	81.5	
87 1,2,4,5-Tetrachlorobenzene	216	9.404	9.404	0.000	96	652238	80.0	78.3	
89 2,4,6-Trichlorophenol	196	9.521	9.521	0.000	89	419747	80.0	81.4	
91 2,4,5-Trichlorophenol	196	9.570	9.569	0.001	96	434327	80.0	81.2	
94 1,1'-Biphenyl	154	9.741	9.740	0.000	96	1540681	80.0	80.2	
95 2-Chloronaphthalene	162	9.778	9.778	0.000	96	1212040	80.0	78.2	
98 2-Nitroaniline	65	9.874	9.869	0.005	92	293411	80.0	80.9	
102 Dimethyl phthalate	163	10.066	10.061	0.005	100	1335423	80.0	77.6	
103 1,3-Dinitrobenzene	168	10.109	10.104	0.005	98	241404	80.0	80.2	
104 2,6-Dinitrotoluene	165	10.141	10.136	0.005	93	340972	80.0	80.9	
105 Acenaphthylene	152	10.253	10.253	0.000	97	1737119	80.0	81.2	
106 3-Nitroaniline	138	10.333	10.328	0.005	95	361071	80.0	80.7	
108 Acenaphthene	153	10.446	10.446	0.000	94	1216416	80.0	76.2	
107 2,4-Dinitrophenol	184	10.451	10.446	0.005	87	384534	160.0	161.7	
109 4-Nitrophenol	109	10.504	10.494	0.010	80	310373	160.0	159.6	
111 2,4-Dinitrotoluene	165	10.590	10.585	0.006	94	443378	80.0	81.2	
112 Dibenzofuran	168	10.633	10.627	0.006	96	1661706	80.0	80.4	
116 2,3,4,6-Tetrachlorophenol	232	10.756	10.755	0.001	70	372933	80.0	79.9	
118 Diethyl phthalate	149	10.830	10.825	0.005	99	1291706	80.0	77.6	
119 Hexadecane	57	10.841	10.836	0.005	93	722326	80.0	77.7	
121 4-Chlorophenyl phenyl ethe	204	10.969	10.969	0.000	88	730882	80.0	80.0	
122 4-Nitroaniline	138	10.991	10.980	0.011	92	378666	80.0	79.9	
123 Fluorene	166	10.991	10.991	0.001	93	1376414	80.0	76.5	
125 4,6-Dinitro-2-methylphenol	198	11.028	11.023	0.005	94	537884	160.0	162.4	
128 Diphenylamine	169	11.087	11.081	0.006	92	1053173	68.4	67.7	
127 N-Nitrosodiphenylamine	169	11.087	11.081	0.006	62	1053173	80.0	79.2	
129 1,2-Diphenylhydrazine	77	11.135	11.129	0.006	96	1123502	80.0	79.7	
130 Azobenzene	77	11.135	11.129	0.006	94	1123502	80.0	79.7	
137 4-Bromophenyl phenyl ether	248	11.466	11.461	0.005	60	483542	80.0	80.4	
139 Hexachlorobenzene	284	11.562	11.562	0.000	96	571155	80.0	79.3	
141 Atrazine	200	11.589	11.589	0.000	97	402136	80.0	80.5	
143 Pentachlorophenol	266	11.739	11.738	0.000	94	592724	160.0	164.2	
144 n-Octadecane	57	11.744	11.744	0.000	97	707826	80.0	79.3	
150 Phenanthrene	178	11.947	11.941	0.006	96	1866930	80.0	73.2	
151 Anthracene	178	11.995	11.990	0.005	96	1975150	80.0	78.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
152 Carbazole	167	12.128	12.123	0.005	98	1737786	80.0	76.7	
155 Di-n-butyl phthalate	149	12.390	12.390	0.000	100	1995681	80.0	80.6	
162 Fluoranthene	202	13.031	13.031	0.000	98	2041588	80.0	76.9	
164 Benzidine	184	13.106	13.106	0.000	98	1134621	80.0	76.6	
165 Pyrene	202	13.240	13.240	0.000	94	2151624	80.0	76.4	
172 Butyl benzyl phthalate	149	13.720	13.720	0.000	95	1026113	80.0	82.0	
178 Bis(2-ethylhexyl) phthalat	149	14.196	14.196	0.000	94	1449913	80.0	81.5	
179 3,3'-Dichlorobenzidine	252	14.239	14.233	0.006	72	1004680	80.0	82.6	
181 Benzo[a]anthracene	228	14.303	14.297	0.006	97	2284142	80.0	73.1	
182 Chrysene	228	14.340	14.335	0.005	96	2226710	80.0	73.0	
183 Di-n-octyl phthalate	149	14.784	14.784	0.000	99	2361398	80.0	83.6	
185 Benzo[b]fluoranthene	252	15.403	15.398	0.005	96	2660031	80.0	80.4	
187 Benzo[k]fluoranthene	252	15.435	15.430	0.005	98	2572180	80.0	73.5	
190 Benzo[a]pyrene	252	15.809	15.799	0.010	78	2466922	80.0	80.2	
193 Dibenz(a,h)anthracene	278	17.433	17.423	0.010	91	2778160	80.0	80.7	
194 Indeno[1,2,3-cd]pyrene	276	17.444	17.433	0.011	97	3287193	80.0	81.1	
195 Benzo[g,h,i]perylene	276	17.930	17.914	0.016	97	2767041	80.0	80.7	
S 254 Total Cresols	1				0			161.3	
S 257 3 & 4 Methylphenol	108				0			80.6	
S 256 3-Methylphenol	1				0			80.6	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

MB_LIST1_WRK_00477	Amount Added: 1.00	Units: mL	
MB_INTSTD_STK_00036	Amount Added: 20.00	Units: uL	Run Reagent

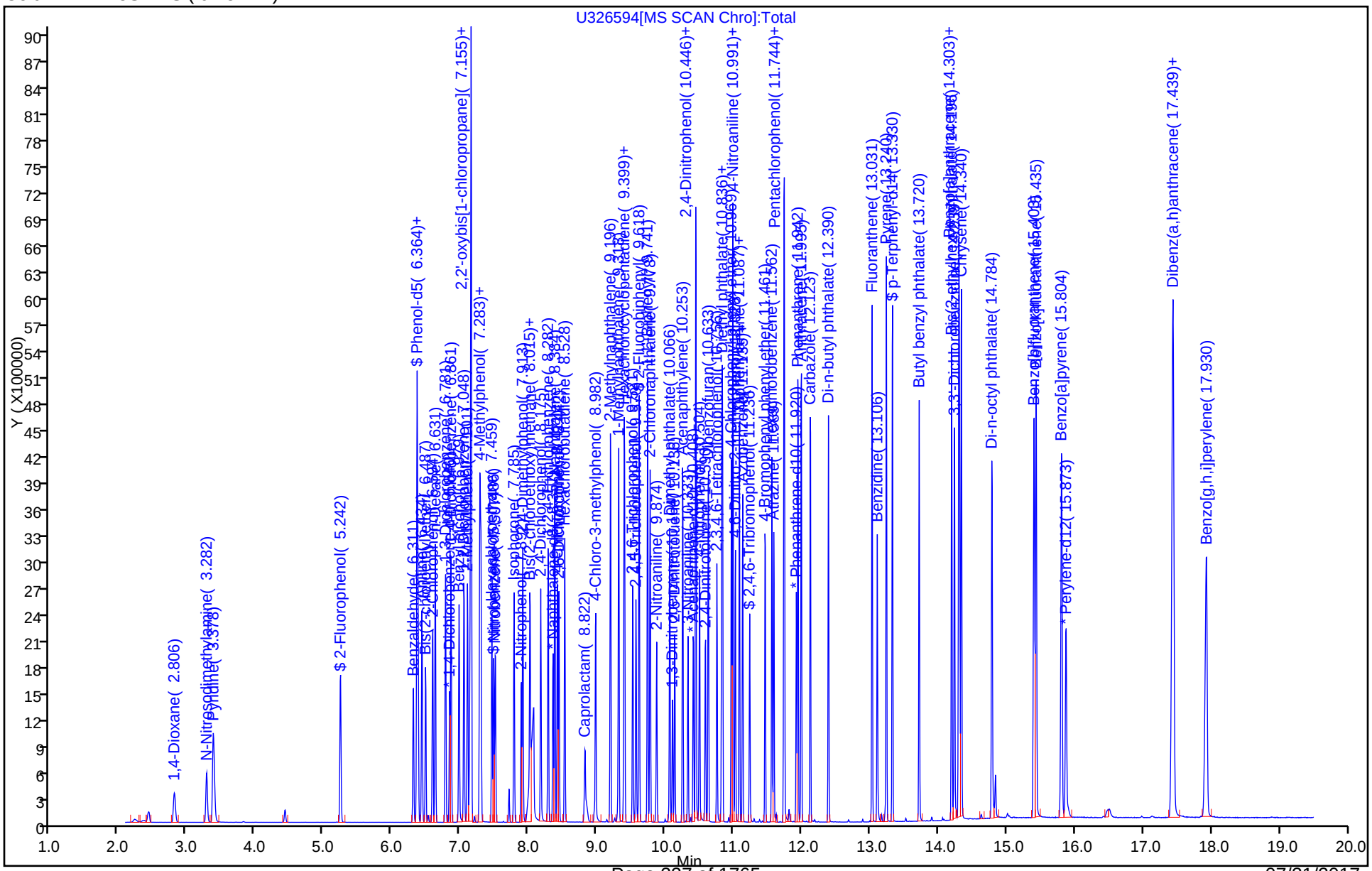
Report Date: 27-Jul-2017 16:40:59 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20170726-64341.b\U326594.D

Injection Date:	26-Jul-2017 14:29:30	Instrument ID:	HP5973U	Operator ID:	DR
Lims ID:	IC - List1 80			Worklist Smp#:	7
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	U-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

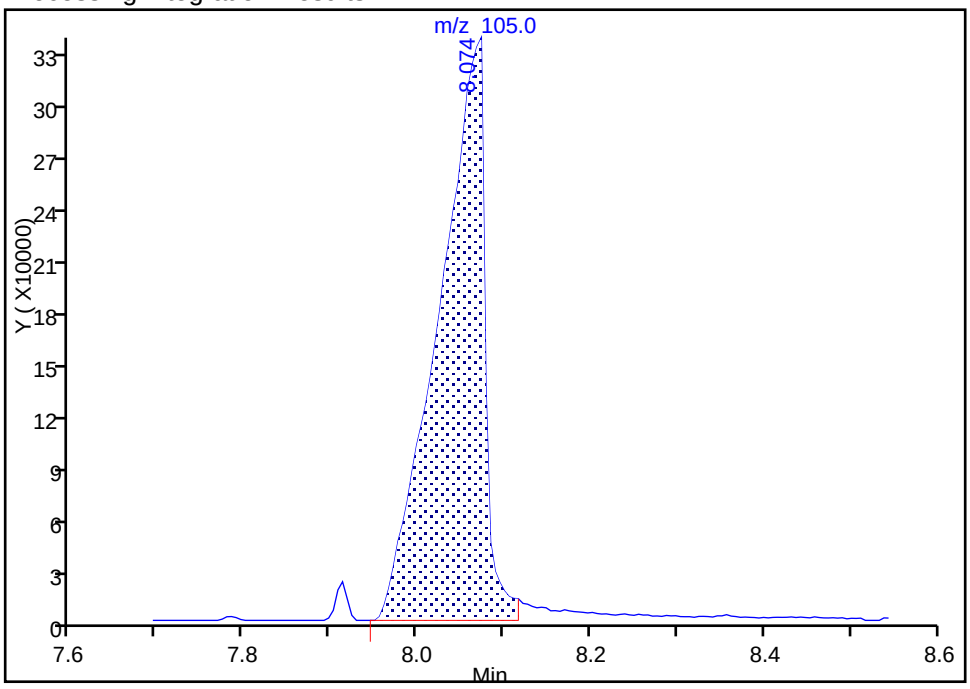
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Injection Date: 26-Jul-2017 14:29:30 Instrument ID: HP5973U
Lims ID: IC - List1 80
Client ID:
Operator ID: DR ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: U-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

64 Benzoic acid, CAS: 65-85-0

Signal: 1

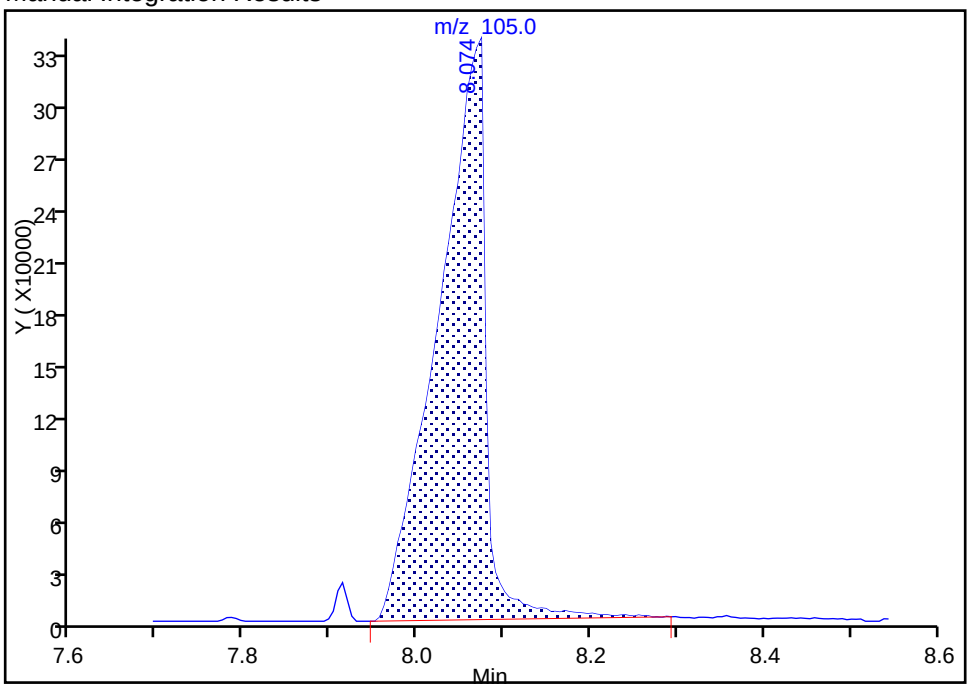
Processing Integration Results

RT: 8.07
Area: 1245760
Amount: 240.9693
Amount Units: ng/uL



Manual Integration Results

RT: 8.07
Area: 1267776
Amount: 242.7100
Amount Units: ng/uL



Reviewer: pagem, 27-Jul-2017 15:49:07
Audit Action: Manually Integrated Audit Reason: Peak Tail

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20170726-64341.b\U326595.D
Lims ID: IC - List1 100
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 26-Jul-2017 14:56:30 ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 480-0064341-008
Operator ID: DR Instrument ID: HP5973U
Sublist: chrom-U-8270*sub56

Method: \\ChromNA\Buffalo\ChromData\HP5973U\20170726-64341.b\U-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 27-Jul-2017 16:41:01 Calib Date: 26-Jul-2017 18:28:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973U\20170726-64341.b\U326603.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK019

First Level Reviewer: richardsd Date: 27-Jul-2017 13:55:12

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	6.840	6.840	0.000	92	289565	40.0	40.0	
* 2 Naphthalene-d8	136	8.357	8.351	0.006	99	1037210	40.0	40.0	
* 3 Acenaphthene-d10	164	10.414	10.408	0.006	96	518702	40.0	40.0	
* 4 Phenanthrene-d10	188	11.920	11.920	0.000	95	980094	40.0	40.0	
* 5 Chrysene-d12	240	14.313	14.308	0.005	96	1154449	40.0	40.0	
* 6 Perylene-d12	264	15.873	15.868	0.005	97	1231498	40.0	40.0	
$ 7 2-Fluorophenol	112	5.242	5.242	0.000	91	850718	100.0	97.5	
$ 8 Phenol-d5	99	6.364	6.359	0.005	98	1026884	100.0	98.0	
$ 9 Nitrobenzene-d5	82	7.486	7.486	0.000	85	833747	100.0	100.4	
$ 10 2-Fluorobiphenyl	172	9.618	9.618	0.000	98	1876382	100.0	97.5	
$ 11 2,4,6-Tribromophenol	330	11.242	11.236	0.006	89	452983	100.0	103.7	
$ 12 p-Terphenyl-d14	244	13.330	13.325	0.005	96	2204560	100.0	90.4	
23 1,4-Dioxane	88	2.812	2.812	0.000	93	381565	100.0	96.2	
24 N-Nitrosodimethylamine	42	3.287	3.282	0.005	92	365567	100.0	99.8	
25 Pyridine	52	3.383	3.383	0.000	97	670030	100.0	97.2	
32 Benzaldehyde	77	6.311	6.305	0.006	95	415877	100.0	76.7	
33 Phenol	94	6.380	6.375	0.005	98	1045153	100.0	98.3	
34 Aniline	93	6.439	6.434	0.005	97	1295167	100.0	96.9	
35 Bis(2-chloroethyl)ether	93	6.492	6.487	0.005	98	835546	100.0	97.1	
37 2-Chlorophenol	128	6.594	6.589	0.006	95	933947	100.0	99.2	
38 n-Decane	57	6.631	6.631	0.000	87	881967	100.0	93.0	
39 1,3-Dichlorobenzene	146	6.781	6.781	0.000	98	1053678	100.0	94.6	
40 1,4-Dichlorobenzene	146	6.861	6.861	0.000	94	1070033	100.0	95.6	
41 Benzyl alcohol	108	6.984	6.973	0.011	96	579775	100.0	99.9	
42 1,2-Dichlorobenzene	146	7.053	7.048	0.005	98	1002475	100.0	95.2	
43 2-Methylphenol	108	7.107	7.101	0.006	94	802265	100.0	100.4	
44 2,2'-oxybis[1-chloropropan	45	7.139	7.139	0.000	95	916483	100.0	93.2	
45 Indene	115	7.160	7.155	0.005	90	3645806	300.0	243.7	
46 4-Methylphenol	108	7.283	7.278	0.005	98	824870	100.0	98.8	
47 N-Nitrosodi-n-propylamine	70	7.294	7.283	0.011	84	580329	100.0	101.7	
49 Acetophenone	105	7.304	7.299	0.005	96	1139690	100.0	97.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
53 Hexachloroethane	117	7.459	7.459	0.000	93	374277	100.0	99.2	
54 Nitrobenzene	77	7.513	7.507	0.006	84	806429	100.0	100.0	
56 Isophorone	82	7.785	7.780	0.005	98	1433265	100.0	99.3	
59 2-Nitrophenol	139	7.892	7.892	0.000	86	510892	100.0	103.3	
60 2,4-Dimethylphenol	107	7.913	7.908	0.005	92	817018	100.0	99.5	
62 Bis(2-chloroethoxy)methane	93	8.020	8.015	0.005	99	905188	100.0	95.7	
64 Benzoic acid	105	8.095	8.026	0.069	83	1807712	300.0	318.9	M
67 2,4-Dichlorophenol	162	8.175	8.175	0.000	91	774378	100.0	103.3	
68 1,2,4-Trichlorobenzene	180	8.287	8.282	0.005	95	848126	100.0	95.9	
70 Naphthalene	128	8.384	8.378	0.006	98	2335585	100.0	88.0	
72 4-Chloroaniline	127	8.421	8.416	0.005	97	1100801	100.0	98.9	
73 2,6-Dichlorophenol	162	8.442	8.442	0.000	97	761848	100.0	101.4	
74 Hexachlorobutadiene	225	8.528	8.528	0.000	94	517283	100.0	98.2	
76 Caprolactam	113	8.838	8.800	0.038	86	279825	100.0	101.8	
80 4-Chloro-3-methylphenol	107	8.982	8.976	0.006	94	707145	100.0	104.7	
83 2-Methylnaphthalene	142	9.201	9.196	0.005	91	1686973	100.0	94.5	
85 1-Methylnaphthalene	142	9.318	9.318	0.000	92	1568407	100.0	94.7	
86 Hexachlorocyclopentadiene	237	9.399	9.393	0.006	93	594377	100.0	102.3	
87 1,2,4,5-Tetrachlorobenzene	216	9.404	9.404	0.000	96	876045	100.0	97.4	
89 2,4,6-Trichlorophenol	196	9.527	9.521	0.006	89	563152	100.0	100.9	
91 2,4,5-Trichlorophenol	196	9.575	9.569	0.006	96	586154	100.0	101.3	
94 1,1'-Biphenyl	154	9.740	9.740	0.000	97	1996620	100.0	96.6	
95 2-Chloronaphthalene	162	9.778	9.778	0.000	96	1564703	100.0	93.6	
98 2-Nitroaniline	65	9.874	9.869	0.005	92	400383	100.0	101.8	
102 Dimethyl phthalate	163	10.072	10.061	0.011	99	1732608	100.0	93.3	
103 1,3-Dinitrobenzene	168	10.109	10.104	0.005	98	341464	100.0	105.2	
104 2,6-Dinitrotoluene	165	10.141	10.136	0.005	93	462302	100.0	101.3	
105 Acenaphthylene	152	10.259	10.253	0.006	97	2206651	100.0	95.6	
106 3-Nitroaniline	138	10.339	10.328	0.011	95	489991	100.0	101.1	
107 2,4-Dinitrophenol	184	10.451	10.446	0.005	86	544471	200.0	209.5	
108 Acenaphthene	153	10.451	10.446	0.005	95	1568355	100.0	91.0	
109 4-Nitrophenol	109	10.510	10.494	0.016	81	431045	200.0	204.2	
111 2,4-Dinitrotoluene	165	10.590	10.585	0.006	94	598764	100.0	101.1	
112 Dibenzofuran	168	10.633	10.627	0.006	95	2128544	100.0	95.7	
116 2,3,4,6-Tetrachlorophenol	232	10.761	10.755	0.006	70	514728	100.0	101.6	
118 Diethyl phthalate	149	10.830	10.825	0.005	99	1683719	100.0	93.8	
119 Hexadecane	57	10.841	10.836	0.005	94	926153	100.0	92.3	
121 4-Chlorophenyl phenyl ethe	204	10.969	10.969	0.000	89	965235	100.0	98.2	
122 4-Nitroaniline	138	10.996	10.980	0.016	58	515190	100.0	100.4	
123 Fluorene	166	10.996	10.991	0.006	93	1799220	100.0	92.7	
125 4,6-Dinitro-2-methylphenol	198	11.033	11.023	0.010	94	740788	200.0	206.5	
127 N-Nitrosodiphenylamine	169	11.087	11.081	0.006	62	1389519	100.0	97.1	
128 Diphenylamine	169	11.087	11.081	0.006	92	1389519	85.5	83.0	
130 Azobenzene	77	11.135	11.129	0.006	95	1472158	100.0	97.1	
129 1,2-Diphenylhydrazine	77	11.135	11.129	0.006	96	1472158	100.0	97.1	
137 4-Bromophenyl phenyl ether	248	11.466	11.461	0.005	60	647899	100.0	100.1	
139 Hexachlorobenzene	284	11.562	11.562	0.000	95	757986	100.0	97.9	
141 Atrazine	200	11.594	11.589	0.005	97	520186	100.0	96.5	
143 Pentachlorophenol	266	11.738	11.738	0.000	94	797597	200.0	203.9	
144 n-Octadecane	57	11.744	11.744	0.000	97	898772	100.0	93.6	
150 Phenanthrene	178	11.947	11.941	0.006	96	2365491	100.0	86.3	
151 Anthracene	178	11.995	11.990	0.005	97	2480972	100.0	91.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
152 Carbazole	167	12.128	12.123	0.005	98	2196811	100.0	90.2	
155 Di-n-butyl phthalate	149	12.390	12.390	0.000	100	2506579	100.0	94.2	
162 Fluoranthene	202	13.031	13.031	0.000	97	2524621	100.0	88.4	
164 Benzidine	184	13.106	13.106	0.000	98	1316394	100.0	86.4	
165 Pyrene	202	13.240	13.240	0.000	93	2616931	100.0	90.4	
172 Butyl benzyl phthalate	149	13.720	13.720	0.000	96	1269252	100.0	98.3	
178 Bis(2-ethylhexyl) phthalat	149	14.196	14.196	0.000	95	1805184	100.0	98.4	
179 3,3'-Dichlorobenzidine	252	14.239	14.233	0.006	72	1243133	100.0	99.4	
181 Benzo[a]anthracene	228	14.303	14.297	0.006	97	2814166	100.0	87.6	
182 Chrysene	228	14.340	14.335	0.005	95	2732133	100.0	87.0	
183 Di-n-octyl phthalate	149	14.789	14.784	0.005	99	2928099	100.0	100.8	
185 Benzo[b]fluoranthene	252	15.409	15.398	0.011	96	3124598	100.0	89.9	
187 Benzo[k]fluoranthene	252	15.435	15.430	0.005	96	3427986	100.0	93.3	
190 Benzo[a]pyrene	252	15.809	15.799	0.010	78	3112482	100.0	96.3	
193 Dibenz(a,h)anthracene	278	17.444	17.423	0.021	91	3596608	100.0	99.4	
194 Indeno[1,2,3-cd]pyrene	276	17.455	17.433	0.022	96	4246852	100.0	99.8	
195 Benzo[g,h,i]perylene	276	17.935	17.914	0.021	96	3631284	100.0	100.8	
S 257 3 & 4 Methylphenol	108				0			98.8	
S 256 3-Methylphenol	1				0			98.8	
S 254 Total Cresols	1				0			199.1	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

MB_LIST1_WRK_00478	Amount Added: 1.00	Units: mL	
MB_INTSTD_STK_00036	Amount Added: 20.00	Units: uL	Run Reagent

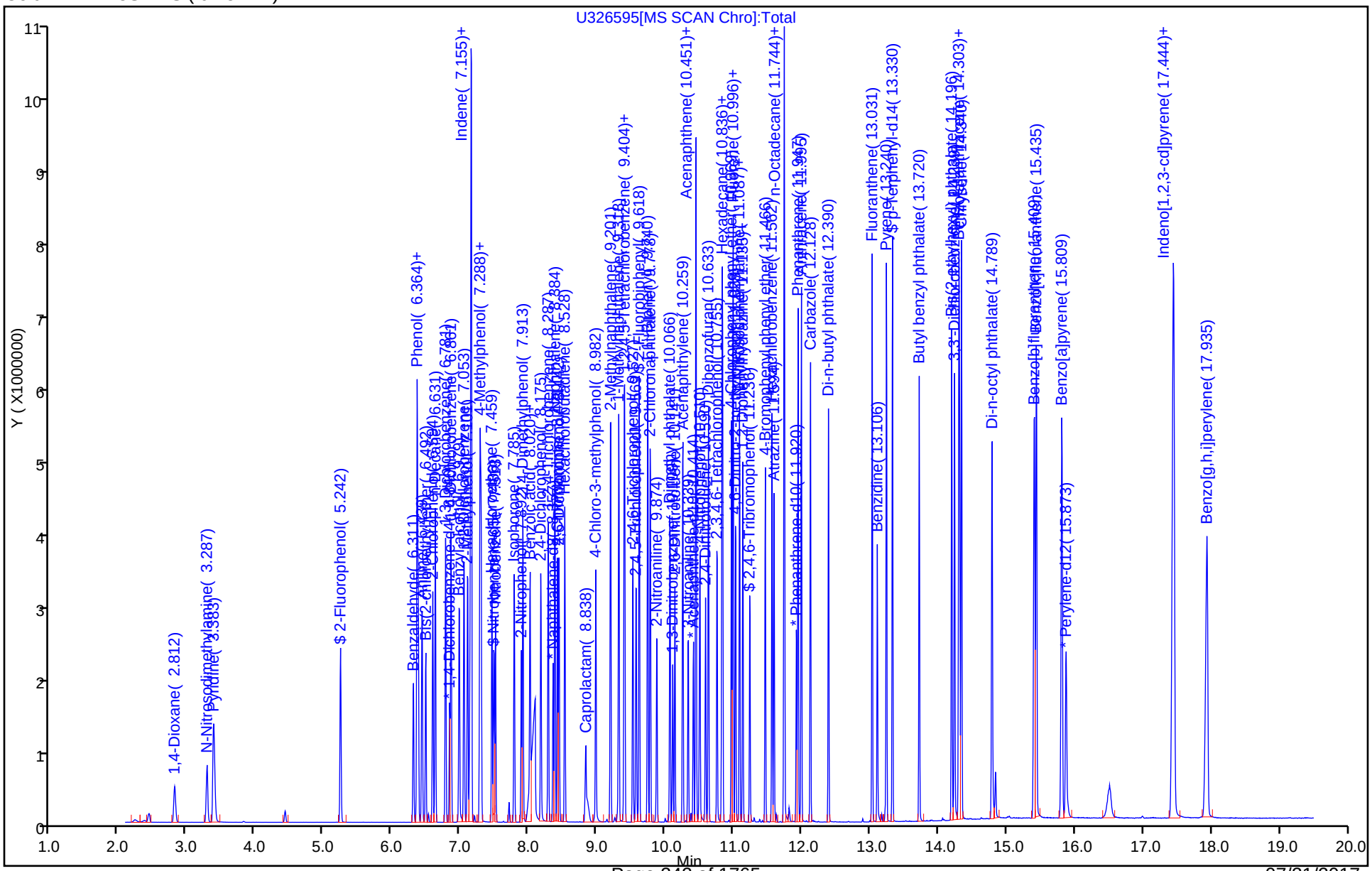
Report Date: 27-Jul-2017 16:41:02 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20170726-64341.b\U326595.D

Injection Date:	26-Jul-2017 14:56:30	Instrument ID:	HP5973U	Operator ID:	DR
Lims ID:	IC - List1 100			Worklist Smp#:	8
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	U-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

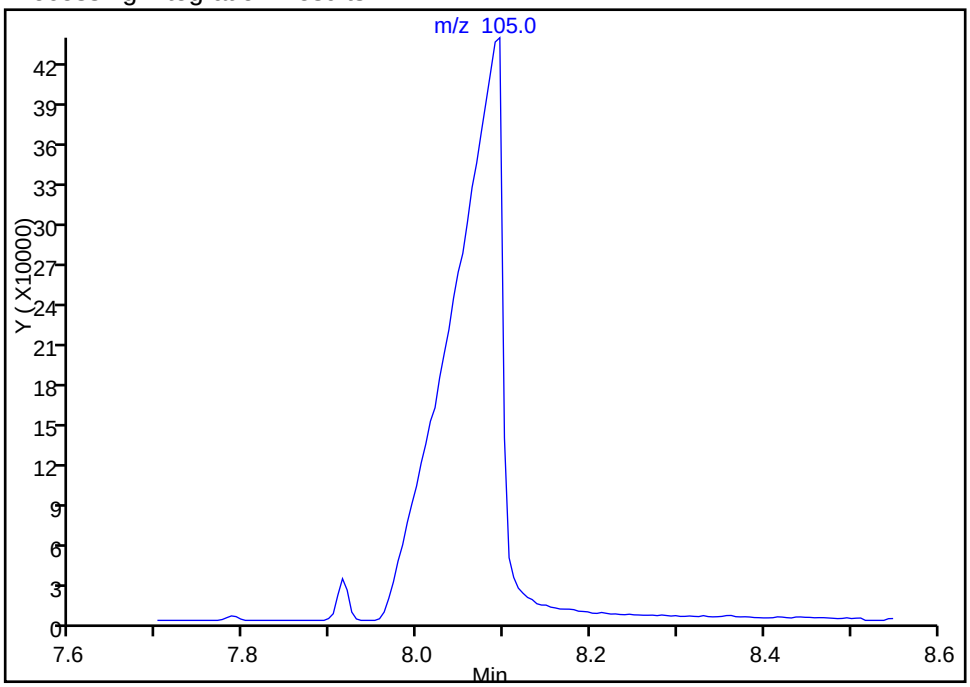
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Injection Date: 26-Jul-2017 14:56:30 Instrument ID: HP5973U
Lims ID: IC - List1 100
Client ID:
Operator ID: DR ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: U-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

64 Benzoic acid, CAS: 65-85-0

Signal: 1

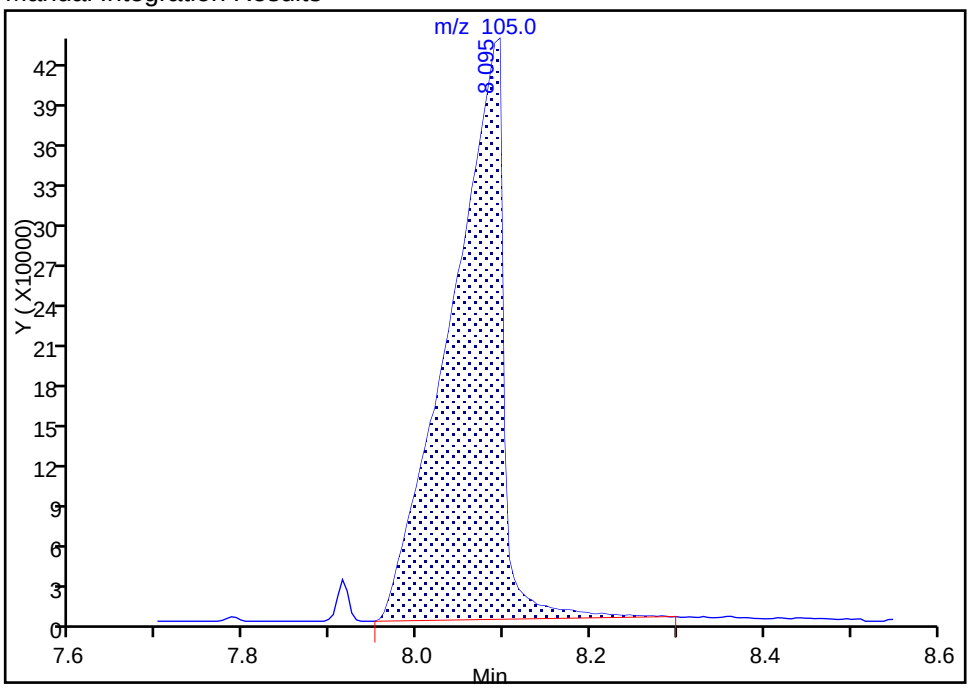
Not Detected
Expected RT: 8.03

Processing Integration Results



Manual Integration Results

RT: 8.10
Area: 1807712
Amount: 318.9037
Amount Units: ng/uL



Reviewer: richardsd, 27-Jul-2017 13:54:54
Audit Action: Assigned Compound ID Audit Reason:

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

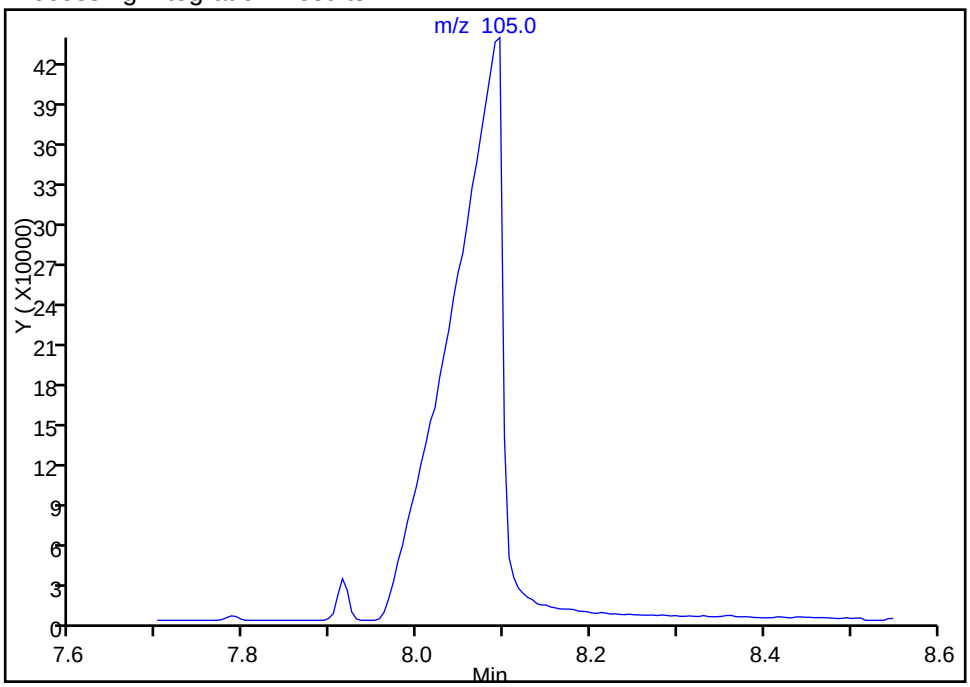
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Injection Date: 26-Jul-2017 14:56:30 Instrument ID: HP5973U
Lims ID: IC - List1 100
Client ID:
Operator ID: DR ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: U-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

64 Benzoic acid, CAS: 65-85-0

Signal: 1

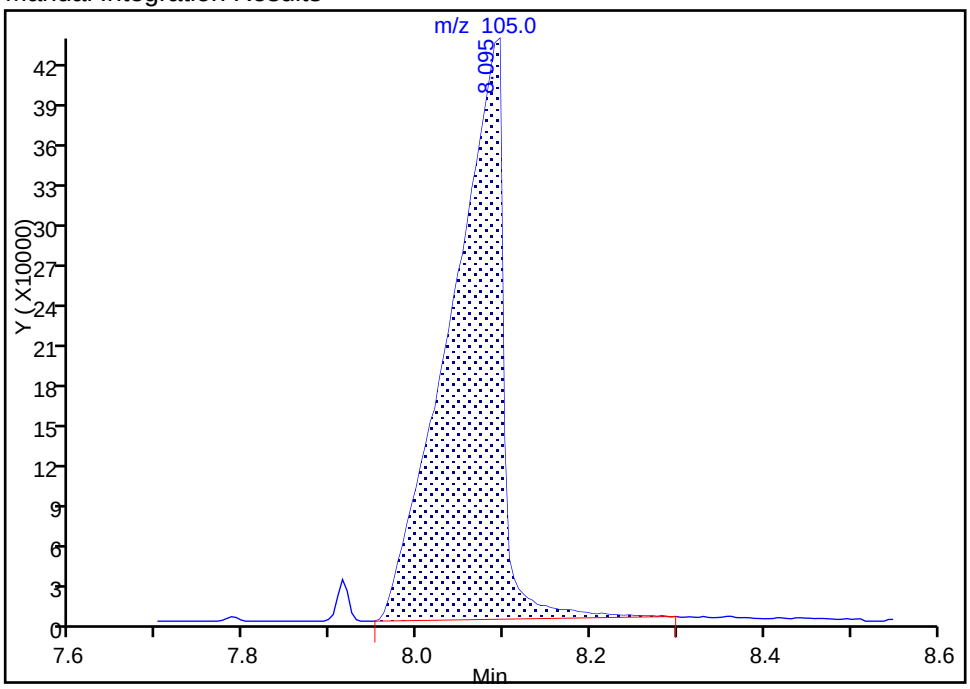
Not Detected
Expected RT: 8.03

Processing Integration Results



Manual Integration Results

RT: 8.10
Area: 1807712
Amount: 318.9037
Amount Units: ng/uL



Reviewer: pagem, 27-Jul-2017 15:49:31
Audit Action: Manually Integrated Audit Reason: Peak Tail

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20170726-64341.b\U326596.D
Lims ID: IC - List1 120
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 26-Jul-2017 15:22:30 ALS Bottle#: 9 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 480-0064341-009
Operator ID: DR Instrument ID: HP5973U
Sublist: chrom-U-8270*sub56

Method: \\ChromNA\Buffalo\ChromData\HP5973U\20170726-64341.b\U-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 27-Jul-2017 16:41:05 Calib Date: 26-Jul-2017 18:28:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973U\20170726-64341.b\U326603.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK019

First Level Reviewer: richardsd Date: 27-Jul-2017 13:55:39

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	6.839	6.840	-0.001	92	196704	40.0	40.0	
* 2 Naphthalene-d8	136	8.357	8.351	0.006	99	714702	40.0	40.0	
* 3 Acenaphthene-d10	164	10.408	10.408	0.000	96	350996	40.0	40.0	
* 4 Phenanthrene-d10	188	11.920	11.920	0.000	95	677686	40.0	40.0	
* 5 Chrysene-d12	240	14.313	14.308	0.005	97	834725	40.0	40.0	
* 6 Perylene-d12	264	15.868	15.868	0.000	97	868747	40.0	40.0	
$ 7 2-Fluorophenol	112	5.242	5.242	0.000	91	696407	120.0	117.5	
$ 8 Phenol-d5	99	6.364	6.359	0.005	97	830196	120.0	116.6	
$ 9 Nitrobenzene-d5	82	7.486	7.486	0.000	85	673304	120.0	117.6	
$ 10 2-Fluorobiphenyl	172	9.617	9.618	-0.001	98	1520582	120.0	117.0	
$ 11 2,4,6-Tribromophenol	330	11.236	11.236	0.000	89	349879	120.0	115.6	
$ 12 p-Terphenyl-d14	244	13.330	13.325	0.005	97	1877027	120.0	106.4	
23 1,4-Dioxane	88	2.811	2.812	-0.001	92	316358	120.0	117.4	
24 N-Nitrosodimethylamine	42	3.287	3.282	0.005	92	292860	120.0	117.8	
25 Pyridine	52	3.383	3.383	0.000	97	545936	120.0	116.6	
32 Benzaldehyde	77	6.311	6.305	0.006	95	303538	120.0	82.4	
33 Phenol	94	6.380	6.375	0.005	96	838908	120.0	116.1	
34 Aniline	93	6.433	6.434	-0.001	97	1037149	120.0	114.3	
35 Bis(2-chloroethyl)ether	93	6.492	6.487	0.005	98	665881	120.0	113.9	
37 2-Chlorophenol	128	6.594	6.589	0.006	95	755665	120.0	118.1	
38 n-Decane	57	6.631	6.631	0.000	87	716869	120.0	111.3	
39 1,3-Dichlorobenzene	146	6.781	6.781	0.000	98	842936	120.0	111.5	
40 1,4-Dichlorobenzene	146	6.861	6.861	0.000	95	860159	120.0	113.1	
41 Benzyl alcohol	108	6.978	6.973	0.005	97	463073	120.0	117.3	
42 1,2-Dichlorobenzene	146	7.048	7.048	0.000	98	805768	120.0	112.7	
43 2-Methylphenol	108	7.101	7.101	0.000	95	638483	120.0	117.6	
44 2,2'-oxybis[1-chloropropan	45	7.139	7.139	0.000	95	732862	120.0	109.8	
45 Indene	115	7.155	7.155	0.000	90	3102012	360.0	305.3	
46 4-Methylphenol	108	7.283	7.278	0.005	97	661997	120.0	116.7	
47 N-Nitrosodi-n-propylamine	70	7.288	7.283	0.005	84	464521	120.0	119.8	
49 Acetophenone	105	7.299	7.299	0.000	97	915022	120.0	114.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
53 Hexachloroethane	117	7.459	7.459	0.000	92	298488	120.0	116.4	
54 Nitrobenzene	77	7.513	7.507	0.006	84	642978	120.0	115.6	
56 Isophorone	82	7.785	7.780	0.005	98	1156103	120.0	116.2	
59 2-Nitrophenol	139	7.892	7.892	0.000	86	407861	120.0	119.4	
60 2,4-Dimethylphenol	107	7.913	7.908	0.005	90	655865	120.0	115.9	
62 Bis(2-chloroethoxy)methane	93	8.015	8.015	0.000	99	729265	120.0	111.9	
64 Benzoic acid	105	8.079	8.026	0.053	87	1424923	360.0	363.0	M
67 2,4-Dichlorophenol	162	8.175	8.175	0.000	90	619609	120.0	119.9	
68 1,2,4-Trichlorobenzene	180	8.287	8.282	0.005	94	681318	120.0	111.8	
70 Naphthalene	128	8.383	8.378	0.005	98	1931951	120.0	105.6	
72 4-Chloroaniline	127	8.421	8.416	0.005	97	904924	120.0	118.0	
73 2,6-Dichlorophenol	162	8.442	8.442	0.000	98	607063	120.0	117.3	
74 Hexachlorobutadiene	225	8.528	8.528	0.000	94	412347	120.0	113.6	
76 Caprolactam	113	8.827	8.800	0.027	86	222720	120.0	117.3	
80 4-Chloro-3-methylphenol	107	8.982	8.976	0.006	94	559780	120.0	120.3	
83 2-Methylnaphthalene	142	9.195	9.196	-0.001	91	1371652	120.0	111.6	
85 1-Methylnaphthalene	142	9.318	9.318	0.000	92	1274990	120.0	111.7	
86 Hexachlorocyclopentadiene	237	9.398	9.393	0.005	93	474710	120.0	120.3	
87 1,2,4,5-Tetrachlorobenzene	216	9.404	9.404	0.000	96	695668	120.0	114.4	
89 2,4,6-Trichlorophenol	196	9.527	9.521	0.006	89	450999	120.0	119.2	
91 2,4,5-Trichlorophenol	196	9.569	9.569	0.000	96	468764	120.0	119.5	
94 1,1'-Biphenyl	154	9.740	9.740	0.000	96	1648383	120.0	118.2	
95 2-Chloronaphthalene	162	9.778	9.778	0.000	96	1279128	120.0	113.0	
98 2-Nitroaniline	65	9.874	9.869	0.005	91	324940	120.0	121.7	
102 Dimethyl phthalate	163	10.066	10.061	0.005	100	1411555	120.0	112.4	
103 1,3-Dinitrobenzene	168	10.109	10.104	0.005	98	267354	120.0	119.2	
104 2,6-Dinitrotoluene	165	10.141	10.136	0.005	93	363084	120.0	117.3	
105 Acenaphthylene	152	10.259	10.253	0.006	97	1803029	120.0	115.4	
106 3-Nitroaniline	138	10.333	10.328	0.005	95	390490	120.0	118.7	
108 Acenaphthene	153	10.445	10.446	-0.001	94	1277759	120.0	109.6	
107 2,4-Dinitrophenol	184	10.451	10.446	0.005	85	432409	240.0	244.4	
109 4-Nitrophenol	109	10.504	10.494	0.010	82	348758	240.0	243.3	
111 2,4-Dinitrotoluene	165	10.590	10.585	0.006	94	479499	120.0	119.3	
112 Dibenzofuran	168	10.632	10.627	0.005	96	1758349	120.0	117.2	
116 2,3,4,6-Tetrachlorophenol	232	10.761	10.755	0.006	70	415873	120.0	120.9	
118 Diethyl phthalate	149	10.830	10.825	0.005	99	1378829	120.0	113.5	
119 Hexadecane	57	10.841	10.836	0.005	93	751488	120.0	110.7	
121 4-Chlorophenyl phenyl ethe	204	10.969	10.969	0.000	88	775586	120.0	116.8	
122 4-Nitroaniline	138	10.990	10.980	0.010	92	407199	120.0	117.1	
123 Fluorene	166	10.990	10.991	0.000	93	1452493	120.0	110.6	
125 4,6-Dinitro-2-methylphenol	198	11.028	11.023	0.005	94	592757	240.0	238.1	
128 Diphenylamine	169	11.087	11.081	0.006	93	1127897	102.6	97.5	
127 N-Nitrosodiphenylamine	169	11.087	11.081	0.006	62	1127897	120.0	114.0	
129 1,2-Diphenylhydrazine	77	11.135	11.129	0.006	97	1185499	120.0	113.1	
130 Azobenzene	77	11.135	11.129	0.006	95	1185499	120.0	113.1	
137 4-Bromophenyl phenyl ether	248	11.466	11.461	0.005	59	510811	120.0	114.2	
139 Hexachlorobenzene	284	11.562	11.562	0.000	96	609392	120.0	113.8	
141 Atrazine	200	11.594	11.589	0.005	97	414520	120.0	113.7	
143 Pentachlorophenol	266	11.738	11.738	0.000	94	639871	240.0	235.5	
144 n-Octadecane	57	11.744	11.744	0.000	97	731849	120.0	110.3	
150 Phenanthrene	178	11.947	11.941	0.006	96	1978811	120.0	104.4	
151 Anthracene	178	11.995	11.990	0.005	96	2069123	120.0	110.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
152 Carbazole	167	12.128	12.123	0.005	98	1833613	120.0	108.9	
155 Di-n-butyl phthalate	149	12.390	12.390	0.000	100	2093438	120.0	113.9	
162 Fluoranthene	202	13.031	13.031	0.000	97	2136222	120.0	108.2	
164 Benzidine	184	13.106	13.106	0.000	98	1048525	120.0	95.2	
165 Pyrene	202	13.239	13.240	-0.001	94	2260820	120.0	108.0	
172 Butyl benzyl phthalate	149	13.720	13.720	0.000	95	1070934	120.0	114.6	
178 Bis(2-ethylhexyl) phthalat	149	14.196	14.196	0.000	94	1528507	120.0	115.1	
179 3,3'-Dichlorobenzidine	252	14.238	14.233	0.005	72	1052483	120.0	116.4	
181 Benzo[a]anthracene	228	14.303	14.297	0.006	97	2401148	120.0	103.3	
182 Chrysene	228	14.340	14.335	0.005	95	2353415	120.0	103.7	
183 Di-n-octyl phthalate	149	14.789	14.784	0.005	98	2488362	120.0	118.4	
185 Benzo[b]fluoranthene	252	15.403	15.398	0.005	96	2713689	120.0	110.7	
187 Benzo[k]fluoranthene	252	15.435	15.430	0.005	96	2912732	120.0	112.4	
190 Benzo[a]pyrene	252	15.809	15.799	0.010	78	2649178	120.0	116.2	
193 Dibenz(a,h)anthracene	278	17.438	17.423	0.015	91	3050807	120.0	119.5	
194 Indeno[1,2,3-cd]pyrene	276	17.449	17.433	0.016	97	3599332	120.0	119.9	
195 Benzo[g,h,i]perylene	276	17.935	17.914	0.021	97	3052264	120.0	120.1	
S 254 Total Cresols	1				0			234.3	
S 257 3 & 4 Methylphenol	108				0			116.7	
S 256 3-Methylphenol	1				0			116.7	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

MB_LIST1_WRK_00479	Amount Added: 1.00	Units: mL	
MB_INTSTD_STK_00036	Amount Added: 20.00	Units: uL	Run Reagent

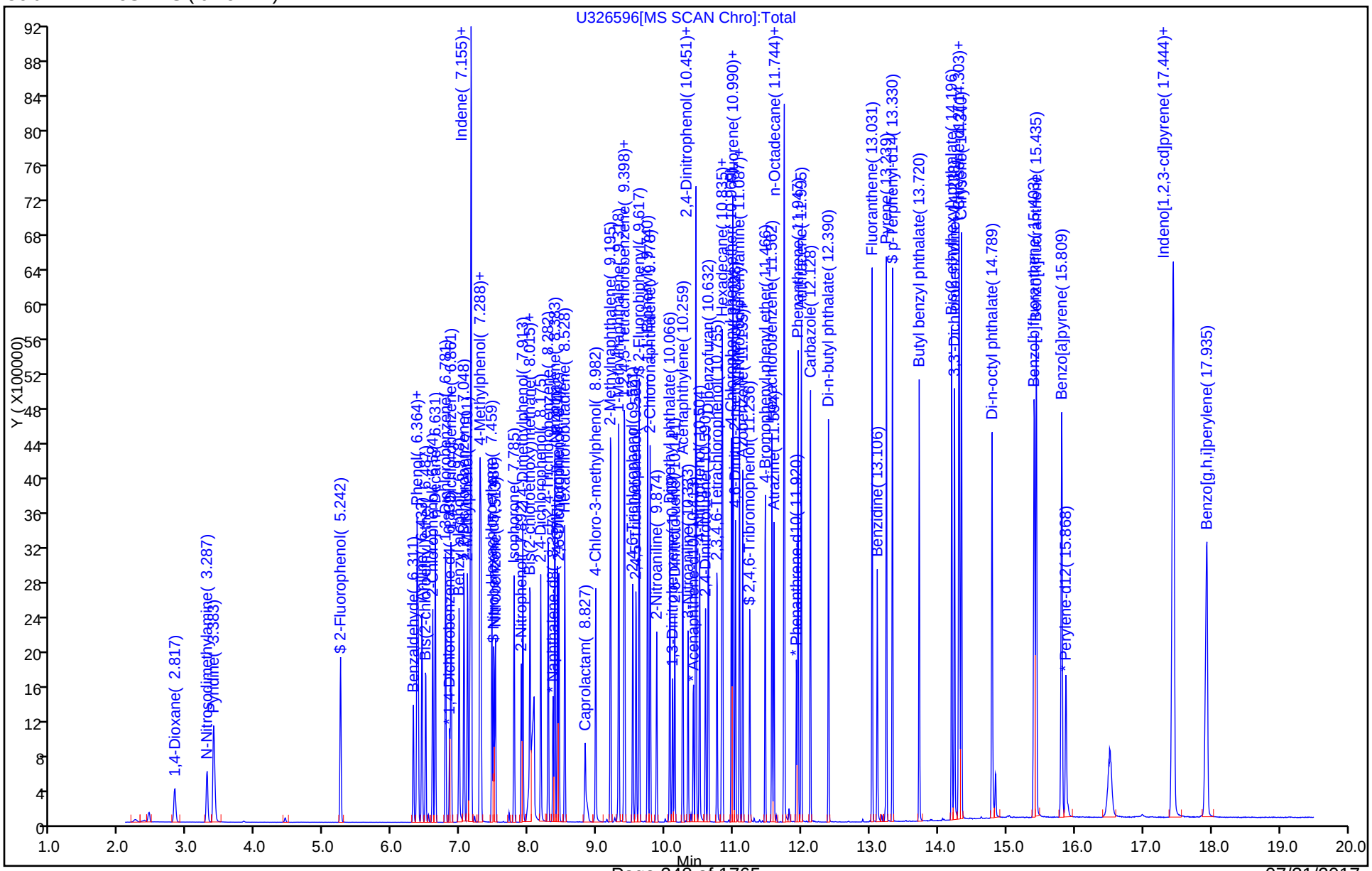
Report Date: 27-Jul-2017 16:41:06 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20170726-64341.b\U326596.D

Injection Date:	26-Jul-2017 15:22:30	Instrument ID:	HP5973U	Operator ID:	DR
Lims ID:	IC - List1 120			Worklist Smp#:	9
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	U-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

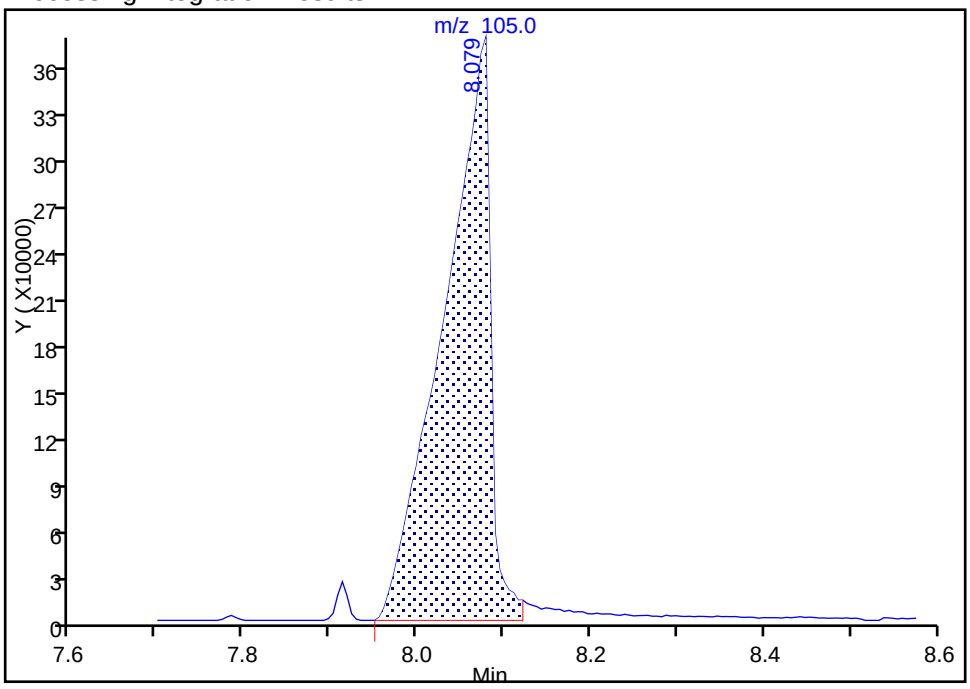
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Injection Date: 26-Jul-2017 15:22:30 Instrument ID: HP5973U
Lims ID: IC - List1 120
Client ID:
Operator ID: DR ALS Bottle#: 9 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: U-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

64 Benzoic acid, CAS: 65-85-0

Signal: 1

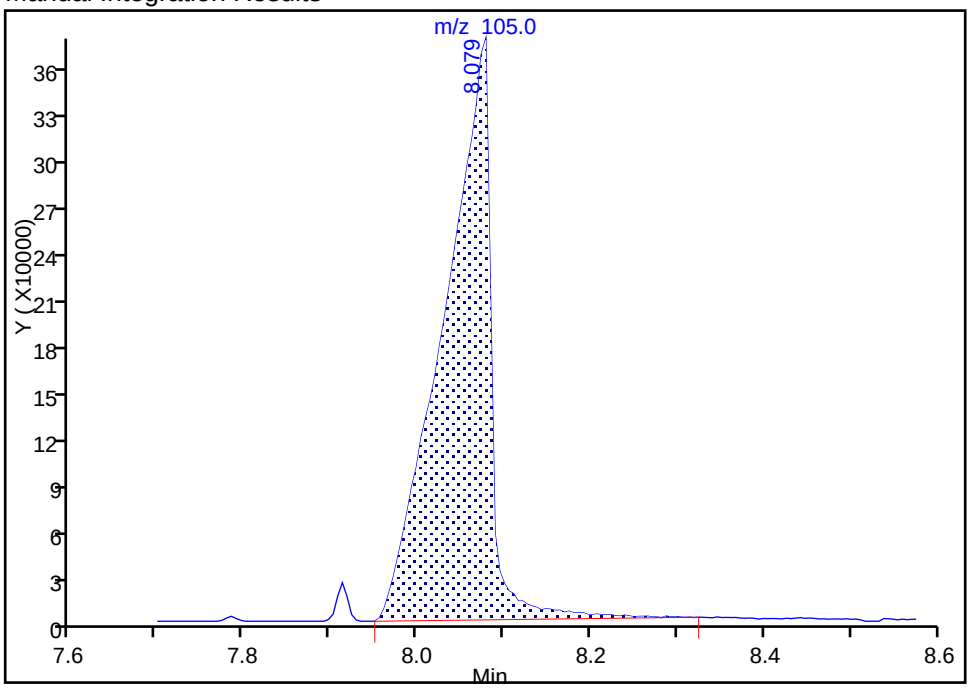
Processing Integration Results

RT: 8.08
Area: 1397992
Amount: 356.3375
Amount Units: ng/uL



Manual Integration Results

RT: 8.08
Area: 1424923
Amount: 362.9540
Amount Units: ng/uL



Reviewer: pagem, 27-Jul-2017 15:49:49
Audit Action: Manually Integrated Audit Reason: Peak Tail

FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1

SDG No.:

Lab Sample ID (1): CCVIS 480-368598/3 Instrument ID (1): HP5973U

GC Column (1): RXI-5Sil MS(0 ID: 0.25(mm) Date Analyzed (1): 07/25/2017 13:37

ANALYTE	RT	RESOLUTION (%)
2-Fluorophenol	5.24	100.0
Benzaldehyde	6.31	100.0
Phenol-d5	6.36	100.0
Phenol	6.38	100.0
Bis(2-chloroethyl)ether	6.49	100.0
2-Chlorophenol	6.59	100.0
2-Methylphenol	7.10	100.0
bis (2-chloroisopropyl) ether	7.14	100.0
4-Methylphenol	7.28	100.0
N-Nitrosodi-n-propylamine	7.29	100.0
Acetophenone	7.30	100.0
Hexachloroethane	7.46	100.0
Nitrobenzene-d5	7.49	100.0
Nitrobenzene	7.51	100.0
Isophorone	7.79	100.0
2-Nitrophenol	7.89	100.0
2,4-Dimethylphenol	7.91	100.0
Bis(2-chloroethoxy)methane	8.02	100.0
2,4-Dichlorophenol	8.18	100.0
Naphthalene	8.38	100.0
4-Chloroaniline	8.42	100.0
Hexachlorobutadiene	8.53	100.0
Caprolactam	8.81	100.0
4-Chloro-3-methylphenol	8.98	100.0
2-Methylnaphthalene	9.20	100.0
Hexachlorocyclopentadiene	9.40	100.0
2,4,6-Trichlorophenol	9.53	100.0
2,4,5-Trichlorophenol	9.58	100.0
2-Fluorobiphenyl	9.62	100.0
Biphenyl	9.74	100.0
2-Chloronaphthalene	9.78	100.0
2-Nitroaniline	9.87	100.0
Dimethyl phthalate	10.07	100.0
2,6-Dinitrotoluene	10.14	100.0
Acenaphthylene	10.26	100.0
3-Nitroaniline	10.33	100.0
Acenaphthene	10.45	100.0
2,4-Dinitrophenol	10.45	100.0
4-Nitrophenol	10.50	100.0
2,4-Dinitrotoluene	10.59	100.0
Dibenzofuran	10.63	100.0
Diethyl phthalate	10.83	100.0
4-Chlorophenyl phenyl ether	10.97	100.0
4-Nitroaniline	10.99	100.0
Fluorene	11.00	100.0

FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1

SDG No.:

Lab Sample ID (1): CCVIS 480-368598/3 Instrument ID (1): HP5973U

GC Column (1): RXI-5Sil MS(0 ID: 0.25(mm) Date Analyzed (1): 07/25/2017 13:37

ANALYTE	RT	RESOLUTION (%)
4,6-Dinitro-2-methylphenol	11.03	100.0
N-Nitrosodiphenylamine	11.09	100.0
2,4,6-Tribromophenol	11.24	100.0
4-Bromophenyl phenyl ether	11.47	100.0
Hexachlorobenzene	11.56	100.0
Atrazine	11.59	100.0
Pentachlorophenol	11.74	100.0
Phenanthrene	11.95	100.0
Anthracene	12.00	100.0
Carbazole	12.13	100.0
Di-n-butyl phthalate	12.40	100.0
Fluoranthene	13.03	100.0
Pyrene	13.24	100.0
p-Terphenyl-d14	13.33	100.0
Butyl benzyl phthalate	13.72	100.0
Bis(2-ethylhexyl) phthalate	14.20	100.0
3,3'-Dichlorobenzidine	14.24	100.0
Benzo(a)anthracene	14.30	100.0
Chrysene	14.34	100.0
Di-n-octyl phthalate	14.79	100.0
Benzo(b)fluoranthene	15.40	33.20
Benzo(k)fluoranthene	15.44	100.0
Benzo(a)pyrene	15.81	100.0
Dibenz(a,h)anthracene	17.43	100.0
Indeno(1,2,3-cd)pyrene	17.44	100.0

FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1

SDG No.:

Lab Sample ID (1): CCVIS 480-368904/3 Instrument ID (1): HP5973U

GC Column (1): RXI-5Sil MS(0 ID: 0.25(mm) Date Analyzed (1): 07/26/2017 20:14

ANALYTE	RT	RESOLUTION (%)
2-Fluorophenol	5.24	100.0
Benzaldehyde	6.31	100.0
Phenol-d5	6.36	100.0
Phenol	6.38	100.0
Bis(2-chloroethyl)ether	6.49	100.0
2-Chlorophenol	6.59	100.0
2-Methylphenol	7.10	100.0
bis (2-chloroisopropyl) ether	7.14	100.0
4-Methylphenol	7.28	100.0
N-Nitrosodi-n-propylamine	7.28	100.0
Acetophenone	7.30	100.0
Hexachloroethane	7.46	100.0
Nitrobenzene-d5	7.49	100.0
Nitrobenzene	7.51	100.0
Isophorone	7.78	100.0
2-Nitrophenol	7.89	100.0
2,4-Dimethylphenol	7.91	100.0
Bis(2-chloroethoxy)methane	8.02	100.0
2,4-Dichlorophenol	8.18	100.0
Naphthalene	8.38	100.0
4-Chloroaniline	8.42	100.0
Hexachlorobutadiene	8.53	100.0
Caprolactam	8.81	100.0
4-Chloro-3-methylphenol	8.98	100.0
2-Methylnaphthalene	9.20	100.0
Hexachlorocyclopentadiene	9.39	100.0
2,4,6-Trichlorophenol	9.52	100.0
2,4,5-Trichlorophenol	9.57	100.0
2-Fluorobiphenyl	9.62	100.0
Biphenyl	9.74	100.0
2-Chloronaphthalene	9.78	100.0
2-Nitroaniline	9.87	100.0
Dimethyl phthalate	10.06	100.0
2,6-Dinitrotoluene	10.14	100.0
Acenaphthylene	10.25	100.0
3-Nitroaniline	10.33	100.0
2,4-Dinitrophenol	10.45	100.0
Acenaphthene	10.45	100.0
4-Nitrophenol	10.50	100.0
2,4-Dinitrotoluene	10.59	100.0
Dibenzofuran	10.63	100.0
Diethyl phthalate	10.83	100.0
4-Chlorophenyl phenyl ether	10.97	100.0
4-Nitroaniline	10.99	100.0
Fluorene	10.99	100.0

FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1

SDG No.:

Lab Sample ID (1): CCVIS 480-368904/3 Instrument ID (1): HP5973U

GC Column (1): RXI-5Sil MS(0 ID: 0.25(mm) Date Analyzed (1): 07/26/2017 20:14

ANALYTE	RT	RESOLUTION (%)
4,6-Dinitro-2-methylphenol	11.02	100.0
N-Nitrosodiphenylamine	11.09	100.0
2,4,6-Tribromophenol	11.24	100.0
4-Bromophenyl phenyl ether	11.47	100.0
Hexachlorobenzene	11.56	100.0
Atrazine	11.59	100.0
Pentachlorophenol	11.74	100.0
Phenanthrene	11.95	100.0
Anthracene	11.99	100.0
Carbazole	12.12	100.0
Di-n-butyl phthalate	12.39	100.0
Fluoranthene	13.03	100.0
Pyrene	13.24	100.0
p-Terphenyl-d14	13.33	100.0
Butyl benzyl phthalate	13.72	100.0
Bis(2-ethylhexyl) phthalate	14.20	100.0
3,3'-Dichlorobenzidine	14.24	100.0
Benzo(a)anthracene	14.30	100.0
Chrysene	14.34	100.0
Di-n-octyl phthalate	14.79	100.0
Benzo(b)fluoranthene	15.40	38.00
Benzo(k)fluoranthene	15.44	100.0
Benzo(a)pyrene	15.80	100.0
Dibenz(a,h)anthracene	17.43	100.0
Indeno(1,2,3-cd)pyrene	17.44	100.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1

SDG No.:

Lab Sample ID: CCVIS 480-368598/3 Calibration Date: 07/25/2017 13:37

Instrument ID: HP5973U Calib Start Date: 07/21/2017 12:19

GC Column: RXI-5Sil MS(0.5 ID: 0.25(mm) Calib End Date: 07/21/2017 14:32

Lab File ID: U326568.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.6223	0.5997	0.0100	48200	50000	-3.6	20.0
N-Nitrosodimethylamine	Ave	0.6859	0.5381	0.0100	39200	50000	-21.5	50.0
Pyridine	Ave	1.261	1.012	0.0100	40100	50000	-19.8	50.0
Benzaldehyde	Ave	0.9218	0.7727	0.0100	41900	50000	-16.2	50.0
Phenol	Ave	1.595	1.506	0.8000	47200	50000	-5.6	20.0
Aniline	Ave	2.057	1.857	0.0100	45100	50000	-9.7	20.0
Bis(2-chloroethyl)ether	Ave	1.336	1.203	0.7000	45000	50000	-9.9	20.0
2-Chlorophenol	Ave	1.327	1.321	0.8000	49700	50000	-0.5	20.0
n-Decane	Ave	1.706	1.410	0.0100	41300	50000	-17.3	20.0
1,3-Dichlorobenzene	Ave	1.524	1.561	0.0100	51200	50000	2.4	20.0
1,4-Dichlorobenzene	Ave	1.559	1.569	0.0100	50300	50000	0.7	20.0
Benzyl alcohol	Lin1		0.7648	0.0100	45000	50000	-9.9	20.0
1,2-Dichlorobenzene	Ave	1.451	1.469	0.0100	50600	50000	1.2	20.0
2-Methylphenol	Ave	1.180	1.124	0.7000	47600	50000	-4.8	20.0
bis (2-chloroisopropyl) ether	Ave	2.006	1.412	0.0100	35200	50000	-29.6*	20.0
Indene	Ave	2.318	2.198	0.0100	142000	150000	-5.2	20.0
4-Methylphenol	Ave	1.226	1.143	0.6000	46600	50000	-6.7	20.0
N-Nitrosodi-n-propylamine	Ave	0.9378	0.7881	0.5000	42000	50000	-16.0	20.0
Acetophenone	Ave	1.792	1.603	0.0100	44700	50000	-10.5	20.0
Hexachloroethane	Ave	0.5279	0.5173	0.3000	49000	50000	-2.0	20.0
Nitrobenzene	Lin1		0.3088	0.2000	51900	50000	3.8	20.0
Isophorone	Ave	0.6229	0.5531	0.4000	44400	50000	-11.2	20.0
2-Nitrophenol	Lin1		0.1628	0.1000	60700	50000	21.5*	20.0
2,4-Dimethylphenol	Ave	0.3114	0.3194	0.2000	51300	50000	2.6	20.0
Bis(2-chloroethoxy)methane	Ave	0.3795	0.3619	0.3000	47700	50000	-4.6	20.0
Benzoic acid	Lin1		0.1578	0.0100	155000	150000	3.6	50.0
2,4-Dichlorophenol	Lin1		0.2882	0.2000	53300	50000	6.6	20.0
1,2,4-Trichlorobenzene	Ave	0.3052	0.3354	0.0100	54900	50000	9.9	20.0
Naphthalene	Ave	0.997	1.025	0.7000	51400	50000	2.9	20.0
4-Chloroaniline	Ave	0.4209	0.4215	0.0100	50100	50000	0.1	20.0
2,6-Dichlorophenol	Lin1		0.2774	0.0100	52000	50000	4.0	20.0
Hexachlorobutadiene	Ave	0.1734	0.1939	0.0100	55900	50000	11.8	20.0
Caprolactam	Lin1		0.0884	0.0100	43600	50000	-12.8	50.0
4-Chloro-3-methylphenol	Lin1		0.2507	0.2000	46900	50000	-6.2	20.0
2-Methylnaphthalene	Ave	0.6724	0.6961	0.4000	51800	50000	3.5	20.0
1-Methylnaphthalene	Ave	0.6266	0.6369	0.0100	50800	50000	1.6	20.0
Hexachlorocyclopentadiene	Lin1		0.4135	0.0500	58100	50000	16.3	20.0
1,2,4,5-Tetrachlorobenzene	Ave	0.6236	0.6970	0.0100	55900	50000	11.8	20.0
2,4,6-Trichlorophenol	Lin1		0.4190	0.2000	54000	50000	8.0	20.0
2,4,5-Trichlorophenol	Lin1		0.4330	0.2000	52200	50000	4.4	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo | Job No.: 480-121321-1

SDG No.:

Lab Sample ID: CCVIS 480-368598/3 | Calibration Date: 07/25/2017 13:37

Instrument ID: HP5973U | Calib Start Date: 07/21/2017 12:19

GC Column: RXI-5Sil MS(0.5 ID: 0.25(mm) | Calib End Date: 07/21/2017 14:32

Lab File ID: U326568.D | Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Biphenyl	Ave	1.688	1.766	0.0100	52300	50000	4.7	20.0
2-Chloronaphthalene	Ave	1.285	1.346	0.8000	52300	50000	4.7	20.0
2-Nitroaniline	Lin1		0.2701	0.0100	49800	50000	-0.5	20.0
Dimethyl phthalate	Ave	1.421	1.426	0.0100	50200	50000	0.4	20.0
1,3-Dinitrobenzene	Lin1		0.0934	0.0100	62200	50000	24.4*	20.0
2,6-Dinitrotoluene	Lin1		0.3136	0.2000	58600	50000	17.2	20.0
Acenaphthylene	Ave	1.917	1.946	0.9000	50800	50000	1.5	20.0
3-Nitroaniline	Lin1		0.3378	0.0100	53400	50000	6.8	20.0
Acenaphthene	Ave	1.330	1.361	0.0100	51200	50000	2.3	20.0
2,4-Dinitrophenol	Lin1		0.1451	0.0100	132000	100000	32.0*	20.0
4-Nitrophenol	Lin1		0.1430	0.0100	95300	100000	-4.7	20.0
2,4-Dinitrotoluene	Lin1		0.3904	0.0100	58300	50000	16.6	20.0
Dibenzofuran	Ave	1.837	1.875	0.8000	51000	50000	2.1	20.0
2,3,4,6-Tetrachlorophenol	Lin1		0.3429	0.0100	53400	50000	6.9	20.0
Diethyl phthalate	Ave	1.395	1.372	0.0100	49200	50000	-1.6	20.0
Hexadecane	Ave	0.9879	0.8277	0.0100	41900	50000	-16.2	20.0
4-Chlorophenyl phenyl ether	Ave	0.7330	0.7682	0.4000	52400	50000	4.8	20.0
4-Nitroaniline	Lin1		0.3598	0.0100	49600	50000	-0.8	20.0
Fluorene	Ave	1.512	1.544	0.9000	51100	50000	2.1	20.0
4,6-Dinitro-2-methylphenol	Lin1		0.1187	0.0100	136000	100000	36.3*	20.0
Diphenylamine	Ave	0.6535	0.6859	0.0100	44900	42800	4.9	20.0
N-Nitrosodiphenylamine	Ave	0.5588	0.5864	0.0100	52500	50000	4.9	20.0
1,2-Diphenylhydrazine	Ave	0.7134	0.6530	0.0100	45800	50000	-8.5	20.0
trans-Azobenzene	Ave	0.7134	0.6530	0.0100	45800	50000	-8.5	20.0
4-Bromophenyl phenyl ether	Ave	0.2319	0.2602	0.1000	56100	50000	12.2	20.0
Hexachlorobenzene	Ave	0.2727	0.3069	0.1000	56300	50000	12.6	20.0
Atrazine	Lin1		0.3903	0.0100	48700	50000	-2.6	20.0
Pentachlorophenol	Lin1		0.1351	0.0500	109000	100000	9.0	20.0
n-Octadecane	Ave	0.4964	0.4215	0.0100	42400	50000	-15.1	20.0
Phenanthrene	Ave	1.101	1.126	0.7000	51100	50000	2.3	20.0
Anthracene	Ave	1.150	1.172	0.7000	50900	50000	1.8	20.0
Carbazole	Ave	1.019	1.017	0.0100	49900	50000	-0.2	20.0
Di-n-butyl phthalate	Lin1		1.138	0.0100	49100	50000	-1.8	20.0
Fluoranthene	Ave	1.197	1.203	0.6000	50300	50000	0.5	20.0
Benzidine	Ave	0.4707	0.5222	0.0100	55500	50000	11.0	50.0
Pyrene	Ave	1.048	1.050	0.6000	50100	50000	0.1	20.0
Butyl benzyl phthalate	Lin1		0.4059	0.0100	50800	50000	1.5	20.0
Bis(2-ethylhexyl) phthalate	Lin1		0.5647	0.0100	50400	50000	0.9	20.0
3,3'-Dichlorobenzidine	Lin1		0.4320	0.0100	51900	50000	3.9	50.0
Benzo(a)anthracene	Ave	1.105	1.111	0.8000	50300	50000	0.5	20.0
Chrysene	Ave	1.072	1.079	0.7000	50300	50000	0.6	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1

SDG No.:

Lab Sample ID: CCVIS 480-368598/3 Calibration Date: 07/25/2017 13:37

Instrument ID: HP5973U Calib Start Date: 07/21/2017 12:19

GC Column: RXI-5Sil MS(0.5 ID: 0.25(mm) Calib End Date: 07/21/2017 14:32

Lab File ID: U326568.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Di-n-octyl phthalate	Lin1		0.9856	0.0100	51800	50000	3.7	20.0
Benzo(b)fluoranthene	Ave	1.131	1.154	0.7000	51000	50000	2.1	20.0
Benzo(k)fluoranthene	Ave	1.208	1.223	0.7000	50600	50000	1.2	20.0
Benzo(a)pyrene	Ave	1.091	1.104	0.7000	50600	50000	1.2	20.0
Dibenz(a,h)anthracene	Ave	1.186	1.232	0.4000	51900	50000	3.9	20.0
Indeno(1,2,3-cd)pyrene	Ave	1.409	1.446	0.5000	51300	50000	2.6	20.0
Benzo(g,h,i)perylene	Ave	1.189	1.222	0.5000	51400	50000	2.8	20.0
2-Fluorophenol	Ave	1.257	1.270	0.0100	50500	50000	1.0	20.0
Phenol-d5	Ave	1.586	1.498	0.0100	47200	50000	-5.6	20.0
Nitrobenzene-d5	Lin1		0.3034	0.0100	52400	50000	4.7	20.0
2-Fluorobiphenyl	Ave	1.504	1.613	0.0100	53600	50000	7.3	20.0
2,4,6-Tribromophenol	Lin1		0.1530	0.0100	56900	50000	13.9	20.0
p-Terphenyl-d14	Ave	0.8087	0.8432	0.0100	52100	50000	4.3	20.0

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20170725-64313.b\U326568.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 25-Jul-2017 13:37:30 ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 480-0064313-003
Operator ID: DR Instrument ID: HP5973U
Sublist: chrom-U-8270*sub56

Method: \\ChromNA\Buffalo\ChromData\HP5973U\20170725-64313.b\U-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 26-Jul-2017 10:58:11 Calib Date: 21-Jul-2017 22:04:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973U\20170721-64235.b\U326545.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK022

First Level Reviewer: pagem Date: 25-Jul-2017 14:07:37

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	6.840	6.840	0.000	92	113590	40.0	40.0	
* 2 Naphthalene-d8	136	8.357	8.357	0.000	99	405395	40.0	40.0	
* 3 Acenaphthene-d10	164	10.414	10.414	0.000	97	189619	40.0	40.0	
* 4 Phenanthrene-d10	188	11.926	11.926	0.000	95	357940	40.0	40.0	
* 5 Chrysene-d12	240	14.314	14.314	0.000	97	435518	40.0	40.0	
* 6 Perylene-d12	264	15.879	15.879	0.000	97	469691	40.0	40.0	
$ 7 2-Fluorophenol	112	5.242	5.242	0.000	91	180264	50.0	50.5	
$ 8 Phenol-d5	99	6.364	6.364	0.000	97	212644	50.0	47.2	
$ 9 Nitrobenzene-d5	82	7.486	7.486	0.000	85	153758	50.0	52.4	
$ 10 2-Fluorobiphenyl	172	9.618	9.618	0.000	99	382433	50.0	53.6	
$ 11 2,4,6-Tribromophenol	330	11.236	11.236	0.000	90	68459	50.0	56.9	
$ 12 p-Terphenyl-d14	244	13.331	13.331	0.000	99	459038	50.0	52.1	
23 1,4-Dioxane	88	2.806	2.806	0.000	82	85145	50.0	48.2	
24 N-Nitrosodimethylamine	42	3.282	3.282	0.000	82	76409	50.0	39.2	
25 Pyridine	52	3.378	3.378	0.000	94	143624	50.0	40.1	
32 Benzaldehyde	77	6.311	6.311	0.000	95	109719	50.0	41.9	
33 Phenol	94	6.380	6.380	0.000	97	213844	50.0	47.2	
34 Aniline	93	6.434	6.434	0.000	98	263641	50.0	45.1	
35 Bis(2-chloroethyl)ether	93	6.487	6.487	0.000	98	170881	50.0	45.0	
37 2-Chlorophenol	128	6.594	6.594	0.000	95	187509	50.0	49.7	
38 n-Decane	57	6.631	6.631	0.000	88	200226	50.0	41.3	
39 1,3-Dichlorobenzene	146	6.781	6.781	0.000	98	221616	50.0	51.2	
40 1,4-Dichlorobenzene	146	6.861	6.861	0.000	95	222847	50.0	50.3	
41 Benzyl alcohol	108	6.979	6.979	0.000	96	108586	50.0	45.0	
42 1,2-Dichlorobenzene	146	7.053	7.053	0.000	99	208526	50.0	50.6	
43 2-Methylphenol	108	7.102	7.102	0.000	93	159610	50.0	47.6	
44 2,2'-oxybis[1-chloropropan	45	7.139	7.139	0.000	95	200452	50.0	35.2	
45 Indene	115	7.155	7.155	0.000	91	936098	150.0	142.2	
46 4-Methylphenol	108	7.278	7.278	0.000	97	162300	50.0	46.6	
47 N-Nitrosodi-n-propylamine	70	7.289	7.289	0.000	84	111896	50.0	42.0	
49 Acetophenone	105	7.299	7.299	0.000	94	227629	50.0	44.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
53 Hexachloroethane	117	7.460	7.460	0.000	94	73446	50.0	49.0	
54 Nitrobenzene	77	7.508	7.508	0.000	84	156460	50.0	51.9	
56 Isophorone	82	7.785	7.785	0.000	98	280292	50.0	44.4	
59 2-Nitrophenol	139	7.892	7.892	0.000	86	82509	50.0	60.7	
60 2,4-Dimethylphenol	107	7.914	7.914	0.000	91	161867	50.0	51.3	
62 Bis(2-chloroethoxy)methane	93	8.015	8.015	0.000	99	183407	50.0	47.7	
64 Benzoic acid	105	8.026	8.026	0.000	86	239894	150.0	155.4	
67 2,4-Dichlorophenol	162	8.175	8.175	0.000	90	146044	50.0	53.3	
68 1,2,4-Trichlorobenzene	180	8.288	8.288	0.000	94	169975	50.0	54.9	
70 Naphthalene	128	8.384	8.384	0.000	97	519564	50.0	51.4	
72 4-Chloroaniline	127	8.421	8.421	0.000	98	213591	50.0	50.1	
73 2,6-Dichlorophenol	162	8.442	8.442	0.000	97	140559	50.0	52.0	
74 Hexachlorobutadiene	225	8.528	8.528	0.000	94	98242	50.0	55.9	
76 Caprolactam	113	8.806	8.806	0.000	84	44773	50.0	43.6	
80 4-Chloro-3-methylphenol	107	8.977	8.977	0.000	93	127049	50.0	46.9	
83 2-Methylnaphthalene	142	9.201	9.201	0.000	92	352732	50.0	51.8	
85 1-Methylnaphthalene	142	9.319	9.319	0.000	93	322724	50.0	50.8	
86 Hexachlorocyclopentadiene	237	9.399	9.399	0.000	95	98005	50.0	58.1	
87 1,2,4,5-Tetrachlorobenzene	216	9.404	9.404	0.000	96	165212	50.0	55.9	
89 2,4,6-Trichlorophenol	196	9.527	9.527	0.000	90	99318	50.0	54.0	
91 2,4,5-Trichlorophenol	196	9.575	9.575	0.000	95	102623	50.0	52.2	
94 1,1'-Biphenyl	154	9.741	9.741	0.000	95	418676	50.0	52.3	
95 2-Chloronaphthalene	162	9.778	9.778	0.000	95	318930	50.0	52.3	
98 2-Nitroaniline	65	9.874	9.874	0.000	91	64015	50.0	49.8	
102 Dimethyl phthalate	163	10.067	10.067	0.000	100	338095	50.0	50.2	
103 1,3-Dinitrobenzene	168	10.109	10.109	0.000	96	47342	50.0	62.2	
104 2,6-Dinitrotoluene	165	10.141	10.141	0.000	94	74340	50.0	58.6	
105 Acenaphthylene	152	10.259	10.259	0.000	98	461351	50.0	50.8	
106 3-Nitroaniline	138	10.334	10.334	0.000	96	80058	50.0	53.4	
108 Acenaphthene	153	10.446	10.446	0.000	93	322675	50.0	51.2	
107 2,4-Dinitrophenol	184	10.451	10.451	0.000	63	68778	100.0	132.0	
109 4-Nitrophenol	109	10.499	10.499	0.000	81	67780	100.0	95.3	
111 2,4-Dinitrotoluene	165	10.590	10.590	0.000	94	92530	50.0	58.3	
112 Dibenzofuran	168	10.633	10.633	0.000	96	444340	50.0	51.0	
116 2,3,4,6-Tetrachlorophenol	232	10.761	10.761	0.000	70	81274	50.0	53.4	
118 Diethyl phthalate	149	10.830	10.830	0.000	99	325299	50.0	49.2	
119 Hexadecane	57	10.841	10.841	0.000	92	196189	50.0	41.9	
121 4-Chlorophenyl phenyl ethe	204	10.969	10.969	0.000	89	182086	50.0	52.4	
122 4-Nitroaniline	138	10.985	10.985	0.000	93	85284	50.0	49.6	
123 Fluorene	166	10.996	10.996	0.000	94	365926	50.0	51.1	
125 4,6-Dinitro-2-methylphenol	198	11.028	11.028	0.000	95	106213	100.0	136.3	
128 Diphenylamine	169	11.087	11.087	0.000	93	262384	42.8	44.9	
127 N-Nitrosodiphenylamine	169	11.087	11.087	0.000	61	262384	50.0	52.5	
130 Azobenzene	77	11.135	11.135	0.000	96	292184	50.0	45.8	
129 1,2-Diphenylhydrazine	77	11.135	11.135	0.000	98	292184	50.0	45.8	
137 4-Bromophenyl phenyl ether	248	11.466	11.466	0.000	60	116431	50.0	56.1	
139 Hexachlorobenzene	284	11.562	11.562	0.000	96	137328	50.0	56.3	
141 Atrazine	200	11.589	11.589	0.000	96	92515	50.0	48.7	
143 Pentachlorophenol	266	11.739	11.739	0.000	94	120870	100.0	109.0	
144 n-Octadecane	57	11.749	11.749	0.000	95	188571	50.0	42.4	
150 Phenanthrene	178	11.947	11.947	0.000	96	503827	50.0	51.1	
151 Anthracene	178	11.995	11.995	0.000	96	524168	50.0	50.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
152 Carbazole	167	12.129	12.129	0.000	97	454986	50.0	49.9	
155 Di-n-butyl phthalate	149	12.396	12.396	0.000	100	509251	50.0	49.1	
162 Fluoranthene	202	13.031	13.031	0.000	95	538322	50.0	50.3	
164 Benzidine	184	13.106	13.106	0.000	98	284304	50.0	55.5	
165 Pyrene	202	13.240	13.240	0.000	97	571496	50.0	50.1	
172 Butyl benzyl phthalate	149	13.721	13.721	0.000	95	220946	50.0	50.8	
178 Bis(2-ethylhexyl) phthalat	149	14.201	14.201	0.000	95	307418	50.0	50.4	
179 3,3'-Dichlorobenzidine	252	14.239	14.239	0.000	72	235193	50.0	51.9	
181 Benzo[a]anthracene	228	14.303	14.303	0.000	98	604762	50.0	50.3	
182 Chrysene	228	14.340	14.340	0.000	97	587513	50.0	50.3	
183 Di-n-octyl phthalate	149	14.789	14.789	0.000	99	536581	50.0	51.8	
185 Benzo[b]fluoranthene	252	15.403	15.403	0.000	97	677659	50.0	51.0	
187 Benzo[k]fluoranthene	252	15.435	15.435	0.000	98	717880	50.0	50.6	
190 Benzo[a]pyrene	252	15.809	15.809	0.000	77	648316	50.0	50.6	
193 Dibenz(a,h)anthracene	278	17.433	17.433	0.000	91	723097	50.0	51.9	
194 Indeno[1,2,3-cd]pyrene	276	17.444	17.444	0.000	97	848908	50.0	51.3	
195 Benzo[g,h,i]perylene	276	17.925	17.925	0.000	97	717687	50.0	51.4	

Reagents:

MB_LIST1_WRK_00473	Amount Added: 1.00	Units: mL	
MB_INTSTD_STK_00036	Amount Added: 20.00	Units: uL	Run Reagent

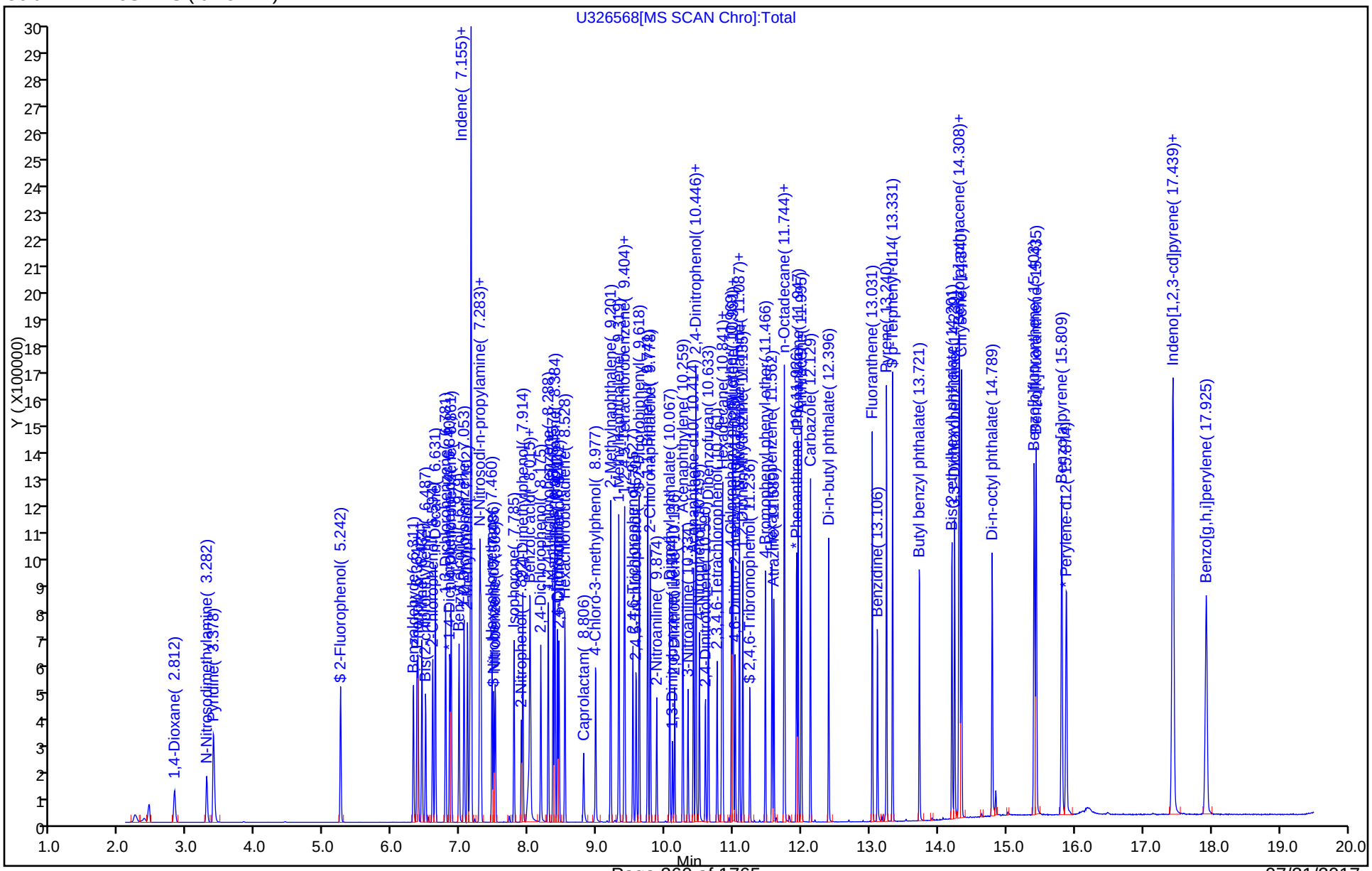
Report Date: 26-Jul-2017 10:58:12 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20170725-64313.b\U326568.D

Injection Date:	25-Jul-2017 13:37:30	Instrument ID:	HP5973U	Operator ID:	DR
Lims ID:	CCVIS			Worklist Smp#:	3
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	U-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.: 480-121321-1

SDG No.:

Lab Sample ID: CCVIS 480-368904/3 Calibration Date: 07/26/2017 20:14

Instrument ID: HP5973U Calib Start Date: 07/26/2017 12:43

GC Column: RXI-5Sil MS(0.5 ID: 0.25(mm) Calib End Date: 07/26/2017 15:22

Lab File ID: U326607.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.5478	0.5615	0.0100	51200	50000	2.5	20.0
N-Nitrosodimethylamine	Ave	0.5058	0.5053	0.0100	50000	50000	-0.0	50.0
Pyridine	Ave	0.9521	0.9292	0.0100	48800	50000	-2.4	50.0
Benzaldehyde	Ave	0.7492	0.7327	0.0100	48900	50000	-2.2	50.0
Phenol	Ave	1.469	1.466	0.8000	49900	50000	-0.2	20.0
Aniline	Ave	1.846	1.821	0.0100	49300	50000	-1.3	20.0
Bis(2-chloroethyl)ether	Ave	1.188	1.162	0.7000	48900	50000	-2.2	20.0
2-Chlorophenol	Ave	1.301	1.315	0.8000	50500	50000	1.0	20.0
n-Decane	Ave	1.309	1.269	0.0100	48500	50000	-3.1	20.0
1,3-Dichlorobenzene	Ave	1.538	1.549	0.0100	50400	50000	0.7	20.0
1,4-Dichlorobenzene	Ave	1.546	1.547	0.0100	50000	50000	0.0	20.0
Benzyl alcohol	Lin1		0.7608	0.0100	47900	50000	-4.2	20.0
1,2-Dichlorobenzene	Ave	1.454	1.444	0.0100	49700	50000	-0.7	20.0
2-Methylphenol	Ave	1.104	1.103	0.7000	50000	50000	-0.0	20.0
bis (2-chloroisopropyl) ether	Ave	1.358	1.247	0.0100	45900	50000	-8.1	20.0
Indene	Ave	2.066	2.090	0.0100	152000	150000	1.1	20.0
4-Methylphenol	Ave	1.154	1.147	0.6000	49700	50000	-0.6	20.0
N-Nitrosodi-n-propylamine	Ave	0.7884	0.7635	0.5000	48400	50000	-3.2	20.0
Acetophenone	Ave	1.623	1.582	0.0100	48800	50000	-2.5	20.0
Hexachloroethane	Ave	0.5213	0.5089	0.3000	48800	50000	-2.4	20.0
Nitrobenzene	Lin1		0.3113	0.2000	50300	50000	0.6	20.0
Isophorone	Ave	0.5569	0.5470	0.4000	49100	50000	-1.8	20.0
2-Nitrophenol	Lin1		0.1853	0.1000	49500	50000	-1.0	20.0
2,4-Dimethylphenol	Ave	0.3167	0.3147	0.2000	49700	50000	-0.6	20.0
Bis(2-chloroethoxy)methane	Ave	0.3649	0.3527	0.3000	48300	50000	-3.3	20.0
Benzoic acid	Lin1		0.1708	0.0100	125000	150000	-16.4	50.0
2,4-Dichlorophenol	Ave	0.2892	0.2965	0.2000	51200	50000	2.5	20.0
1,2,4-Trichlorobenzene	Ave	0.3411	0.3396	0.0100	49800	50000	-0.4	20.0
Naphthalene	Ave	1.024	1.012	0.7000	49400	50000	-1.1	20.0
4-Chloroaniline	Ave	0.4291	0.4316	0.0100	50300	50000	0.6	20.0
2,6-Dichlorophenol	Ave	0.2898	0.2908	0.0100	50200	50000	0.4	20.0
Hexachlorobutadiene	Ave	0.2032	0.2022	0.0100	49700	50000	-0.5	20.0
Caprolactam	Lin1		0.0977	0.0100	47100	50000	-5.9	50.0
4-Chloro-3-methylphenol	Ave	0.2605	0.2619	0.2000	50300	50000	0.5	20.0
2-Methylnaphthalene	Ave	0.6881	0.6988	0.4000	50800	50000	1.5	20.0
1-Methylnaphthalene	Ave	0.6389	0.6469	0.0100	50600	50000	1.2	20.0
Hexachlorocyclopentadiene	Lin1		0.4196	0.0500	48000	50000	-4.0	20.0
1,2,4,5-Tetrachlorobenzene	Ave	0.6933	0.6884	0.0100	49600	50000	-0.7	20.0
2,4,6-Trichlorophenol	Lin1		0.4198	0.2000	49400	50000	-1.2	20.0
2,4,5-Trichlorophenol	Lin1		0.4342	0.2000	49200	50000	-1.7	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo | Job No.: 480-121321-1

SDG No.:

Lab Sample ID: CCVIS 480-368904/3 | Calibration Date: 07/26/2017 20:14

Instrument ID: HP5973U | Calib Start Date: 07/26/2017 12:43

GC Column: RXI-5Sil MS(0.5 ID: 0.25(mm) | Calib End Date: 07/26/2017 15:22

Lab File ID: U326607.D | Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Biphenyl	Lin1		1.721	0.0100	53500	50000	6.9	20.0
2-Chloronaphthalene	Ave	1.290	1.309	0.8000	50800	50000	1.5	20.0
2-Nitroaniline	Lin1		0.2907	0.0100	49000	50000	-2.1	20.0
Dimethyl phthalate	Ave	1.432	1.450	0.0100	50600	50000	1.3	20.0
1,3-Dinitrobenzene	Lin1		0.1167	0.0100	47900	50000	-4.2	20.0
2,6-Dinitrotoluene	Lin1		0.3524	0.2000	50900	50000	1.9	20.0
Acenaphthylene	Ave	1.780	1.902	0.9000	53400	50000	6.8	20.0
3-Nitroaniline	Lin1		0.3731	0.0100	50800	50000	1.5	20.0
2,4-Dinitrophenol	Lin1		0.1833	0.0100	96400	100000	-3.6	20.0
Acenaphthene	Ave	1.329	1.339	0.0100	50400	50000	0.8	20.0
4-Nitrophenol	Lin1		0.1583	0.0100	99500	100000	-0.5	20.0
2,4-Dinitrotoluene	Lin1		0.4550	0.0100	50800	50000	1.5	20.0
Dibenzofuran	Lin1		1.858	0.8000	53500	50000	7.0	20.0
2,3,4,6-Tetrachlorophenol	Lin1		0.3850	0.0100	50400	50000	0.7	20.0
Diethyl phthalate	Ave	1.385	1.423	0.0100	51400	50000	2.8	20.0
Hexadecane	Ave	0.7737	0.7326	0.0100	47300	50000	-5.3	20.0
4-Chlorophenyl phenyl ether	Lin1		0.7766	0.4000	50800	50000	1.5	20.0
4-Nitroaniline	Lin1		0.4016	0.0100	51400	50000	2.8	20.0
Fluorene	Ave	1.497	1.544	0.9000	51600	50000	3.2	20.0
4,6-Dinitro-2-methylphenol	Lin1		0.1363	0.0100	96000	100000	-4.0	20.0
Diphenylamine	Ave	0.6829	0.6792	0.0100	42500	42800	-0.5	20.0
N-Nitrosodiphenylamine	Ave	0.5839	0.5807	0.0100	49700	50000	-0.5	20.0
1,2-Diphenylhydrazine	Ave	0.6186	0.6021	0.0100	48700	50000	-2.7	20.0
trans-Azobenzene	Ave	0.6186	0.6021	0.0100	48700	50000	-2.7	20.0
4-Bromophenyl phenyl ether	Ave	0.2641	0.2576	0.1000	48800	50000	-2.4	20.0
Hexachlorobenzene	Ave	0.3160	0.3122	0.1000	49400	50000	-1.2	20.0
Atrazine	Lin1		0.4321	0.0100	51900	50000	3.9	20.0
Pentachlorophenol	Lin1		0.1481	0.0500	96300	100000	-3.7	20.0
n-Octadecane	Ave	0.3917	0.3604	0.0100	46000	50000	-8.0	20.0
Phenanthrene	Ave	1.119	1.112	0.7000	49700	50000	-0.6	20.0
Anthracene	Ave	1.111	1.164	0.7000	52400	50000	4.8	20.0
Carbazole	Ave	0.9942	1.023	0.0100	51400	50000	2.9	20.0
Di-n-butyl phthalate	Lin1		1.162	0.0100	53300	50000	6.6	20.0
Fluoranthene	Ave	1.166	1.242	0.6000	53200	50000	6.5	20.0
Benzidine	Ave	0.5279	0.5495	0.0100	52100	50000	4.1	50.0
Pyrene	Ave	1.004	1.040	0.6000	51800	50000	3.6	20.0
Butyl benzyl phthalate	Lin1		0.4403	0.0100	49800	50000	-0.5	20.0
Bis(2-ethylhexyl) phthalate	Lin1		0.6132	0.0100	48700	50000	-2.5	20.0
3,3'-Dichlorobenzidine	Ave	0.4333	0.4496	0.0100	51900	50000	3.8	50.0
Benzo(a)anthracene	Ave	1.113	1.092	0.8000	49000	50000	-2.0	20.0
Chrysene	Ave	1.088	1.059	0.7000	48700	50000	-2.6	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1

SDG No.:

Lab Sample ID: CCVIS 480-368904/3 Calibration Date: 07/26/2017 20:14

Instrument ID: HP5973U Calib Start Date: 07/26/2017 12:43

GC Column: RXI-5Sil MS(0.5 ID: 0.25(mm) Calib End Date: 07/26/2017 15:22

Lab File ID: U326607.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Di-n-octyl phthalate	Ave	1.007	1.022	0.0100	50800	50000	1.5	20.0
Benzo(b)fluoranthene	Ave	1.129	1.210	0.7000	53600	50000	7.2	20.0
Benzo(k)fluoranthene	Ave	1.194	1.198	0.7000	50200	50000	0.4	20.0
Benzo(a)pyrene	Ave	1.049	1.103	0.7000	52600	50000	5.1	20.0
Dibenz(a,h)anthracene	Lin1		1.196	0.4000	50900	50000	1.9	20.0
Indeno(1,2,3-cd)pyrene	Lin1		1.408	0.5000	51000	50000	1.9	20.0
Benzo(g,h,i)perylene	Lin1		1.174	0.5000	50200	50000	0.5	20.0
2-Fluorophenol	Ave	1.206	1.236	0.0100	51300	50000	2.5	20.0
Phenol-d5	Ave	1.448	1.442	0.0100	49800	50000	-0.4	20.0
Nitrobenzene-d5	Lin1		0.3203	0.0100	50300	50000	0.7	20.0
2-Fluorobiphenyl	Lin1		1.571	0.0100	52400	50000	4.9	20.0
2,4,6-Tribromophenol	Lin1		0.1686	0.0100	48400	50000	-3.3	20.0
p-Terphenyl-d14	Ave	0.8453	0.8501	0.0100	50300	50000	0.6	20.0

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20170726-64362.b\U326607.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 26-Jul-2017 20:14:30 ALS Bottle#: 28 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 480-0064362-003
Operator ID: DR Instrument ID: HP5973U
Sublist: chrom-U-8270*sub56

Method: \\ChromNA\Buffalo\ChromData\HP5973U\20170726-64362.b\U-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 28-Jul-2017 15:43:04 Calib Date: 26-Jul-2017 18:28:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973U\20170726-64341.b\U326603.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK021

First Level Reviewer: richardsd Date: 28-Jul-2017 15:42:57

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.840	6.840	0.000	92	189131	40.0	40.0	
* 2 Naphthalene-d8	136	8.357	8.357	0.000	99	666030	40.0	40.0	
* 3 Acenaphthene-d10	164	10.408	10.408	0.000	96	326745	40.0	40.0	
* 4 Phenanthrene-d10	188	11.920	11.920	0.000	94	646982	40.0	40.0	
* 5 Chrysene-d12	240	14.313	14.313	0.000	97	814671	40.0	40.0	
* 6 Perylene-d12	264	15.873	15.873	0.000	81	820017	40.0	40.0	
$ 7 2-Fluorophenol	112	5.242	5.242	0.000	90	292268	50.0	51.3	
$ 8 Phenol-d5	99	6.359	6.359	0.000	98	340827	50.0	49.8	
$ 9 Nitrobenzene-d5	82	7.486	7.486	0.000	85	266659	50.0	50.3	
$ 10 2-Fluorobiphenyl	172	9.618	9.618	0.000	99	641803	50.0	52.4	
$ 11 2,4,6-Tribromophenol	330	11.236	11.236	0.000	89	136310	50.0	48.4	
$ 12 p-Terphenyl-d14	244	13.330	13.330	0.000	97	865735	50.0	50.3	
23 1,4-Dioxane	88	2.806	2.806	0.000	93	132750	50.0	51.2	
24 N-Nitrosodimethylamine	42	3.282	3.282	0.000	92	119463	50.0	50.0	
25 Pyridine	52	3.378	3.378	0.000	98	219672	50.0	48.8	
32 Benzaldehyde	77	6.305	6.305	0.000	94	173211	50.0	48.9	
33 Phenol	94	6.375	6.375	0.000	96	346528	50.0	49.9	
34 Aniline	93	6.434	6.434	0.000	98	430576	50.0	49.3	
35 Bis(2-chloroethyl)ether	93	6.487	6.487	0.000	99	274765	50.0	48.9	
37 2-Chlorophenol	128	6.589	6.589	0.000	95	310781	50.0	50.5	
38 n-Decane	57	6.631	6.631	0.000	87	300074	50.0	48.5	
39 1,3-Dichlorobenzene	146	6.781	6.781	0.000	98	366215	50.0	50.4	
40 1,4-Dichlorobenzene	146	6.861	6.861	0.000	95	365645	50.0	50.0	
41 Benzyl alcohol	108	6.979	6.979	0.000	97	179856	50.0	47.9	
42 1,2-Dichlorobenzene	146	7.048	7.048	0.000	99	341419	50.0	49.7	
43 2-Methylphenol	108	7.101	7.101	0.000	93	260769	50.0	50.0	
44 2,2'-oxybis[1-chloropropan	45	7.139	7.139	0.000	94	294891	50.0	45.9	
45 Indene	115	7.155	7.155	0.000	89	1482226	150.0	151.7	
46 4-Methylphenol	108	7.278	7.278	0.000	99	271058	50.0	49.7	
47 N-Nitrosodi-n-propylamine	70	7.283	7.283	0.000	84	180502	50.0	48.4	
49 Acetophenone	105	7.299	7.299	0.000	94	374063	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
53 Hexachloroethane	117	7.459	7.459	0.000	91	120308	50.0	48.8	
54 Nitrobenzene	77	7.507	7.507	0.000	84	259187	50.0	50.3	
56 Isophorone	82	7.780	7.780	0.000	98	455399	50.0	49.1	
59 2-Nitrophenol	139	7.887	7.887	0.000	87	154296	50.0	49.5	
60 2,4-Dimethylphenol	107	7.913	7.913	0.000	90	261993	50.0	49.7	
62 Bis(2-chloroethoxy)methane	93	8.015	8.015	0.000	98	293643	50.0	48.3	
64 Benzoic acid	105	8.031	8.031	0.000	86	426645	150.0	125.4	
67 2,4-Dichlorophenol	162	8.175	8.175	0.000	90	246806	50.0	51.2	
68 1,2,4-Trichlorobenzene	180	8.282	8.282	0.000	94	282721	50.0	49.8	
70 Naphthalene	128	8.378	8.378	0.000	97	842332	50.0	49.4	
72 4-Chloroaniline	127	8.416	8.416	0.000	97	359342	50.0	50.3	
73 2,6-Dichlorophenol	162	8.442	8.442	0.000	96	242100	50.0	50.2	
74 Hexachlorobutadiene	225	8.528	8.528	0.000	93	168302	50.0	49.7	
76 Caprolactam	113	8.806	8.806	0.000	87	81358	50.0	47.1	
80 4-Chloro-3-methylphenol	107	8.977	8.977	0.000	93	218033	50.0	50.3	
83 2-Methylnaphthalene	142	9.196	9.196	0.000	92	581765	50.0	50.8	
85 1-Methylnaphthalene	142	9.318	9.318	0.000	93	538525	50.0	50.6	
86 Hexachlorocyclopentadiene	237	9.393	9.393	0.000	94	171365	50.0	48.0	
87 1,2,4,5-Tetrachlorobenzene	216	9.404	9.404	0.000	96	281143	50.0	49.6	
89 2,4,6-Trichlorophenol	196	9.521	9.521	0.000	89	171477	50.0	49.4	
91 2,4,5-Trichlorophenol	196	9.570	9.570	0.000	96	177354	50.0	49.2	
94 1,1'-Biphenyl	154	9.741	9.741	0.000	95	702859	50.0	53.5	
95 2-Chloronaphthalene	162	9.778	9.778	0.000	95	534751	50.0	50.8	
98 2-Nitroaniline	65	9.874	9.874	0.000	92	118744	50.0	49.0	
102 Dimethyl phthalate	163	10.061	10.061	0.000	99	592105	50.0	50.6	
103 1,3-Dinitrobenzene	168	10.104	10.104	0.000	97	97113	50.0	47.9	
104 2,6-Dinitrotoluene	165	10.136	10.136	0.000	92	143938	50.0	50.9	
105 Acenaphthylene	152	10.253	10.253	0.000	98	776797	50.0	53.4	
106 3-Nitroaniline	138	10.333	10.333	0.000	94	152379	50.0	50.8	
107 2,4-Dinitrophenol	184	10.446	10.446	0.000	64	149740	100.0	96.4	
108 Acenaphthene	153	10.446	10.446	0.000	91	547043	50.0	50.4	
109 4-Nitrophenol	109	10.499	10.499	0.000	80	129277	100.0	99.5	
111 2,4-Dinitrotoluene	165	10.585	10.585	0.000	94	185822	50.0	50.8	
112 Dibenzofuran	168	10.633	10.633	0.000	96	758664	50.0	53.5	
116 2,3,4,6-Tetrachlorophenol	232	10.756	10.756	0.000	70	157257	50.0	50.4	
118 Diethyl phthalate	149	10.825	10.825	0.000	99	581257	50.0	51.4	
119 Hexadecane	57	10.841	10.841	0.000	92	299223	50.0	47.3	
121 4-Chlorophenyl phenyl ethe	204	10.969	10.969	0.000	85	317206	50.0	50.8	
122 4-Nitroaniline	138	10.985	10.985	0.000	94	164030	50.0	51.4	
123 Fluorene	166	10.991	10.991	0.000	94	630768	50.0	51.6	
125 4,6-Dinitro-2-methylphenol	198	11.023	11.023	0.000	95	220438	100.0	96.0	
128 Diphenylamine	169	11.087	11.087	0.000	93	469632	42.8	42.5	
127 N-Nitrosodiphenylamine	169	11.087	11.087	0.000	61	469632	50.0	49.7	
130 Azobenzene	77	11.135	11.135	0.000	94	486921	50.0	48.7	
129 1,2-Diphenylhydrazine	77	11.135	11.135	0.000	97	486921	50.0	48.7	
137 4-Bromophenyl phenyl ether	248	11.466	11.466	0.000	59	208342	50.0	48.8	
139 Hexachlorobenzene	284	11.562	11.562	0.000	96	252451	50.0	49.4	
141 Atrazine	200	11.589	11.589	0.000	97	176467	50.0	51.9	
143 Pentachlorophenol	266	11.739	11.739	0.000	95	239589	100.0	96.3	
144 n-Octadecane	57	11.744	11.744	0.000	96	291474	50.0	46.0	
150 Phenanthrene	178	11.947	11.947	0.000	96	899108	50.0	49.7	
151 Anthracene	178	11.990	11.990	0.000	96	941617	50.0	52.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
152 Carbazole	167	12.123	12.123	0.000	97	827151	50.0	51.4	
155 Di-n-butyl phthalate	149	12.390	12.390	0.000	100	939950	50.0	53.3	
162 Fluoranthene	202	13.031	13.031	0.000	95	1004103	50.0	53.2	
164 Benzidine	184	13.106	13.106	0.000	98	559597	50.0	52.1	
165 Pyrene	202	13.240	13.240	0.000	96	1058946	50.0	51.8	
172 Butyl benzyl phthalate	149	13.720	13.720	0.000	94	448322	50.0	49.8	
178 Bis(2-ethylhexyl) phthalat	149	14.196	14.196	0.000	94	624486	50.0	48.7	
179 3,3'-Dichlorobenzidine	252	14.239	14.239	0.000	72	457811	50.0	51.9	
181 Benzo[a]anthracene	228	14.303	14.303	0.000	97	1111549	50.0	49.0	
182 Chrysene	228	14.340	14.340	0.000	97	1078449	50.0	48.7	
183 Di-n-octyl phthalate	149	14.789	14.789	0.000	98	1040944	50.0	50.8	
185 Benzo[b]fluoranthene	252	15.403	15.403	0.000	96	1240655	50.0	53.6	
187 Benzo[k]fluoranthene	252	15.435	15.435	0.000	98	1228352	50.0	50.2	
190 Benzo[a]pyrene	252	15.804	15.804	0.000	77	1130681	50.0	52.6	
193 Dibenz(a,h)anthracene	278	17.428	17.428	0.000	91	1226067	50.0	50.9	
194 Indeno[1,2,3-cd]pyrene	276	17.439	17.439	0.000	97	1442878	50.0	51.0	
195 Benzo[g,h,i]perylene	276	17.925	17.925	0.000	97	1203577	50.0	50.2	

Reagents:

MB_LIST1_WRK_00476	Amount Added: 1.00	Units: mL	
MB_INTSTD_STK_00036	Amount Added: 20.00	Units: uL	Run Reagent

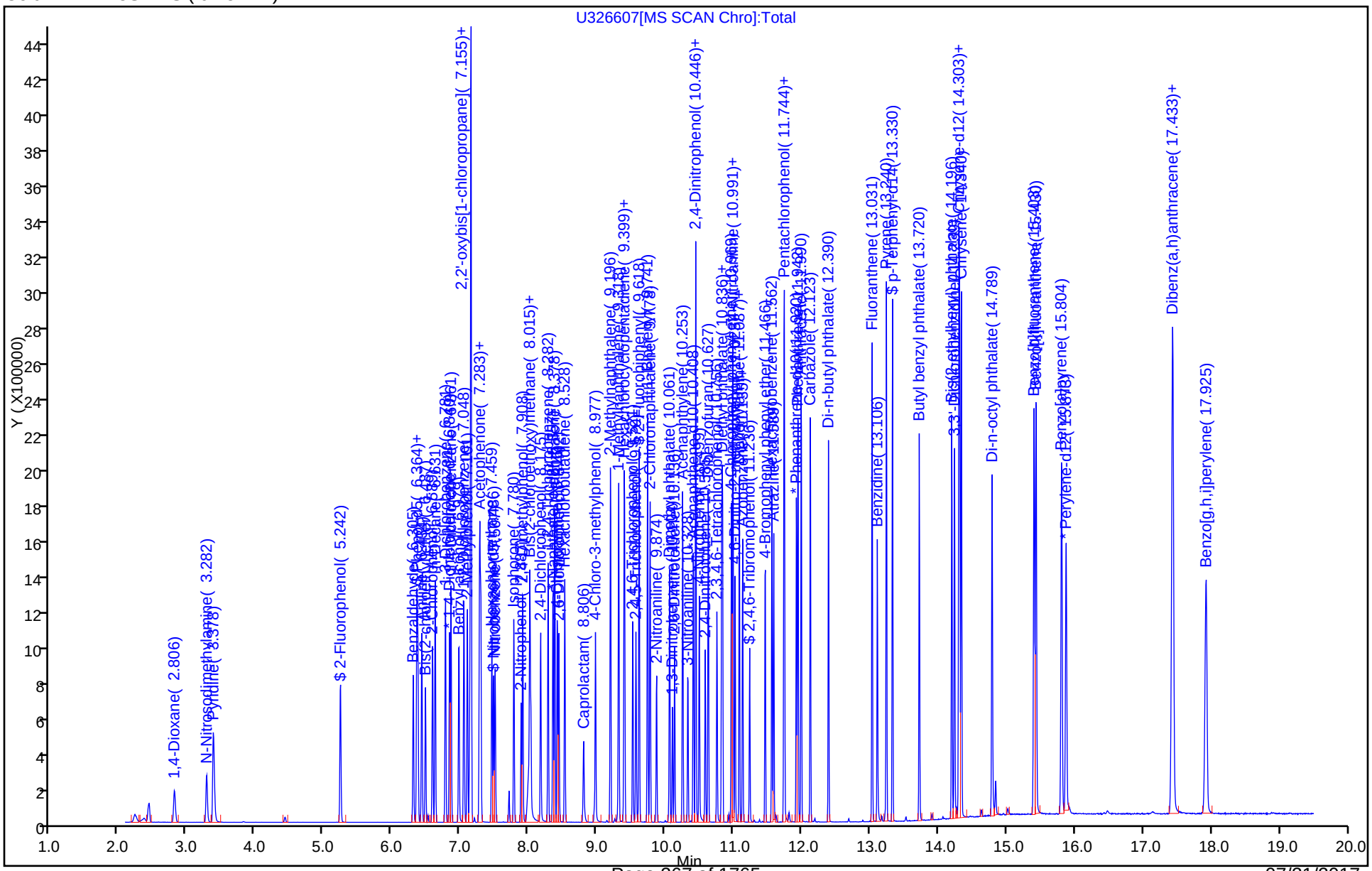
Report Date: 28-Jul-2017 15:43:05 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20170726-64362.b\U326607.D

Injection Date:	26-Jul-2017 20:14:30	Instrument ID:	HP5973U	Operator ID:	DR
Lims ID:	CCVIS			Worklist Smp#:	3
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	28
Method:	U-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20170721-64235.b\U326522.D
Lims ID: DFTPP
Client ID:
Sample Type: DFTPP
Inject. Date: 21-Jul-2017 11:37:30 ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 480-0064235-002
Operator ID: DR Instrument ID: HP5973U

Method: \\ChromNA\Buffalo\ChromData\HP5973U\20170721-64235.b\U-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 25-Jul-2017 13:01:11 Calib Date: 21-Jul-2017 22:04:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973U\20170721-64235.b\U326545.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK013

First Level Reviewer: pagem Date: 25-Jul-2017 13:01:11

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
248 Pentachlorophenol_T	266	11.803	11.803	0.000	94	20263	NR	NR	
249 DFTPP									
250 Benzidine_T	184	13.170	13.170	0.000	99	236826	NR	NR	
251 4,4'-DDE	246		13.402					ND	
252 4,4'-DDD	235		13.726					ND	
253 4,4'-DDT	235	13.908	13.908	0.000	95	55486	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

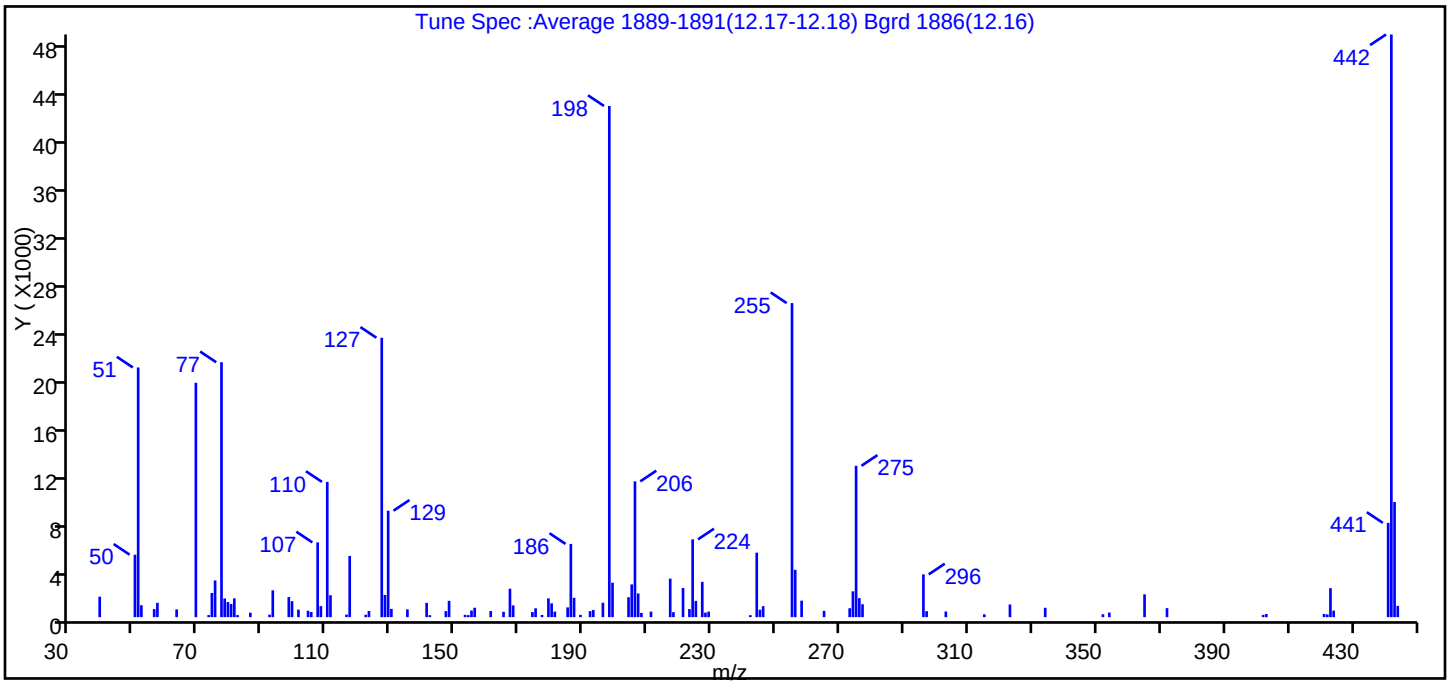
MB_DFTPP_WRK_00312 Amount Added: 1.00 Units: mL

MS Tune Report

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20170721-64235.b\U326522.D
Injection Date: 21-Jul-2017 11:37:30 Instrument ID: HP5973U
Lims ID: DFTPP
Client ID:
Operator ID: DR ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: U-8270 Limit Group: MB - 8270D ICAL
Tune Method: DFTPP Method 8270D, BP 198

249 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	base peak, or >90% of 442	100.0 (87.7)
51	10-80% of the base peak	48.8
68	<2% of mass 69	0.0 (0.0)
69	Present	45.8
70	<2% of mass 69	0.0 (0.0)
127	10-80% of the base peak	54.7
197	<2% of mass 198	0.0
199	5-9% of mass 198	6.7
275	10-60% of the base peak	29.6
365	>1% of mass 198	4.5
441	present but <24% of mass 442	18.4 (16.2)
442	base peak, or >50% of 198	114.0
443	15-24% of mass 442	22.5 (19.8)

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20170721-64235.b\U326522.D\U-8270.rslt\spectra.d
Injection Date: 21-Jul-2017 11:37:30
Spectrum: Tune Spec :Average 1889-1891(12.17-12.18) Bgrd 1886(12.16)
Base Peak: 442.00
Minimum % Base Peak: 0
Number of Points: 114

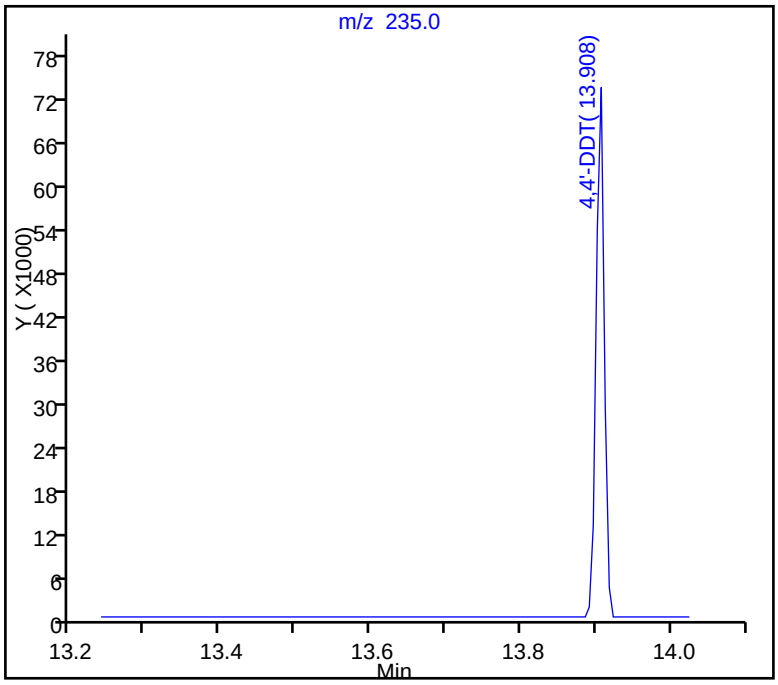
m/z	Y	m/z	Y	m/z	Y	m/z	Y
39.00	1719	111.00	1841	186.00	6155	258.00	1387
44.00	2	116.00	215	187.00	1623	265.00	526
50.00	5248	117.00	5146	189.00	192	273.00	748
51.00	20984	122.00	199	192.00	503	274.00	2169
52.00	1001	123.00	518	193.00	605	275.00	12720
56.00	677	127.00	23480	196.00	1211	276.00	1595
57.00	1205	128.00	1866	198.00	42960	277.00	1082
63.00	651	129.00	8947	199.00	2897	296.00	3595
69.00	19696	130.00	694	204.00	1674	297.00	503
73.00	175	135.00	657	205.00	2752	303.00	477
74.00	2031	141.00	1197	206.00	11411	315.00	239
75.00	3086	142.00	167	207.00	1993	323.00	1066
77.00	21424	147.00	509	208.00	359	334.00	786
78.00	1567	148.00	1370	211.00	467	352.00	242
79.00	1271	153.00	196	217.00	3237	354.00	390
80.00	1109	154.00	167	218.00	418	365.00	1916
81.00	1579	155.00	556	221.00	2447	372.00	758
82.00	172	156.00	791	223.00	679	402.00	190
86.00	374	161.00	516	224.00	6536	403.00	262
92.00	208	165.00	450	225.00	1367	421.00	271
93.00	2254	167.00	2389	227.00	2965	422.00	231
98.00	1688	168.00	986	228.00	382	423.00	2437
99.00	1343	174.00	428	229.00	465	424.00	547
101.00	632	175.00	743	242.00	167	441.00	7924
104.00	537	177.00	185	244.00	5418	442.00	48968
105.00	429	179.00	1580	245.00	620	443.00	9675
107.00	6283	180.00	1159	246.00	924	444.00	948
108.00	927	181.00	465	255.00	26392		
110.00	11366	185.00	821	256.00	3978		

Breakdown Report

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20170721-64235.b\U326522.D
Injection Date: 21-Jul-2017 11:37:30 Instrument ID: HP5973U
Lims ID: DFTPP
Client ID:
Operator ID: DR ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: U-8270 Limit Group: MB - 8270D ICAL

253 4,4'-DDT, Detector: MS SCAN



SW-846 Method

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

253 4,4'-DDT, Area = 55486
252 4,4'-DDD, Area = 0
251 4,4'-DDE, Area = 0

%Breakdown: 0.00%, Max Limit: 20.00%
Passed

Peak Tailing Report

TestAmerica Buffalo

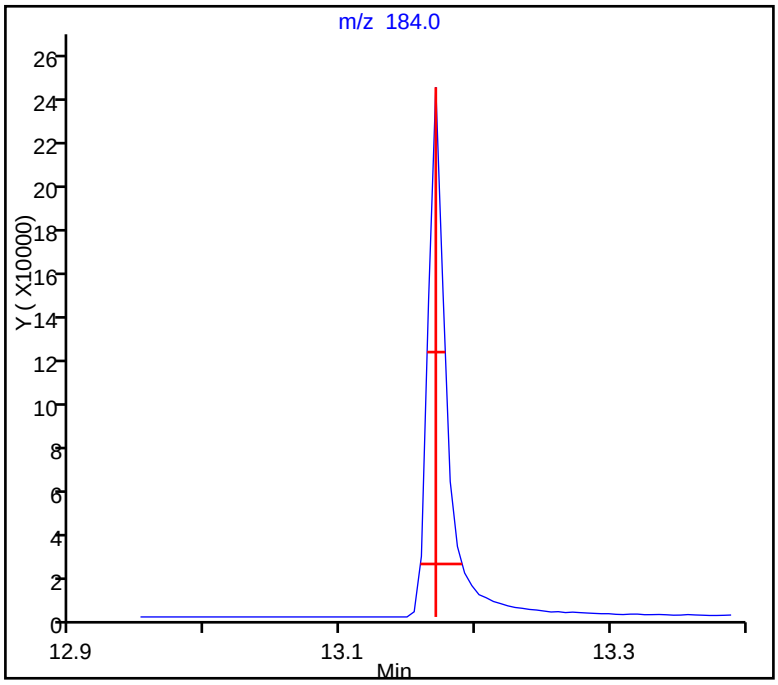
Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20170721-64235.b\U326522.D
Injection Date: 21-Jul-2017 11:37:30 Instrument ID: HP5973U
Lims ID: DFTPP
Client ID:
Operator ID: DR ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: U-8270 Limit Group: MB - 8270D ICAL

250 Benzidine_T, Detector: MS SCAN

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

Back Width = 0.020 (min.)
Front Width = 0.011 (min.)

Tailing Factor = 1.7, Max. Tailing < 2.00
Passed



Peak Tailing Report

TestAmerica Buffalo

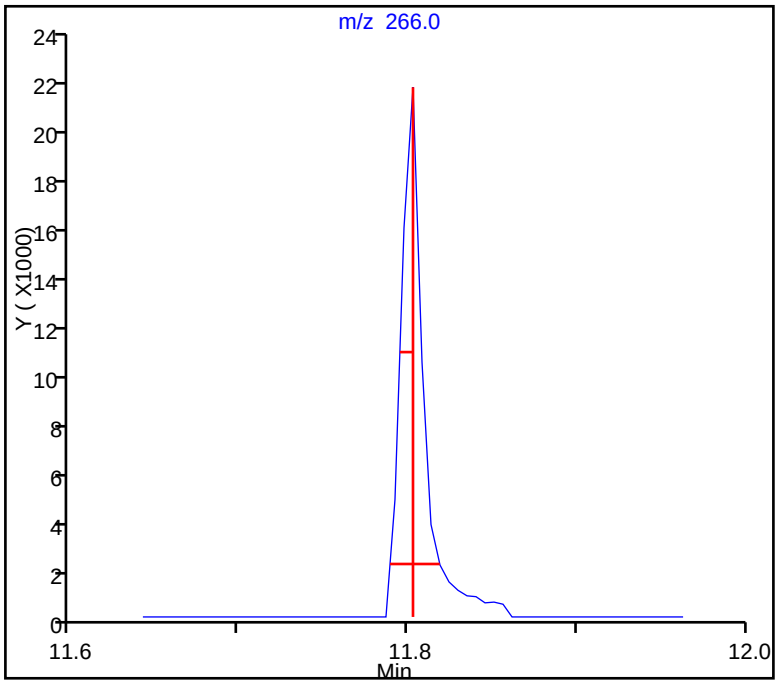
Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20170721-64235.b\U326522.D
Injection Date: 21-Jul-2017 11:37:30 Instrument ID: HP5973U
Lims ID: DFTPP
Client ID:
Operator ID: DR ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: U-8270 Limit Group: MB - 8270D ICAL

248 Pentachlorophenol_T, Detector: MS SCAN

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

Back Width = 0.016 (min.)
Front Width = 0.014 (min.)

Tailing Factor = 1.2, Max. Tailing < 2.00
Passed



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20170725-64313.b\U326567.D
Lims ID: DFTPP
Client ID:
Sample Type: DFTPP
Inject. Date: 25-Jul-2017 13:11:30 ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: DFTPP
Operator ID: DR Instrument ID: HP5973U

Method: \\ChromNA\Buffalo\ChromData\HP5973U\20170725-64313.b\U-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 26-Jul-2017 10:58:09 Calib Date: 21-Jul-2017 22:04:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973U\20170721-64235.b\U326545.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK022

First Level Reviewer: richardsd Date: 25-Jul-2017 15:38:41

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
248 Pentachlorophenol_T	266	11.738	11.738	0.000	94	35397	NR	NR	
249 DFTPP									
250 Benzidine_T	184	13.111	13.111	0.000	98	337586	NR	NR	
251 4,4'-DDE	246		13.402					ND	
252 4,4'-DDD	235		13.726					ND	
253 4,4'-DDT	235	13.849	13.849	0.000	99	161741	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

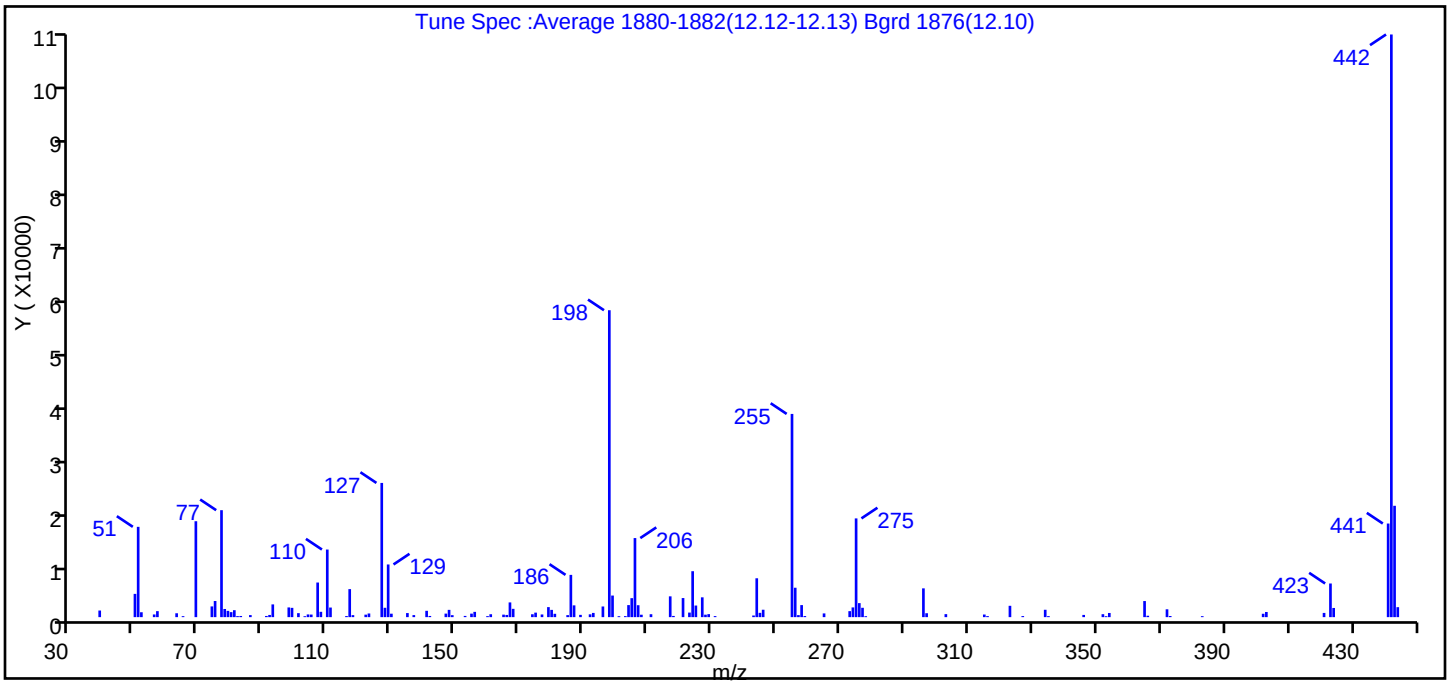
MB_DFTPP_WRK_00312 Amount Added: 1.00 Units: mL

MS Tune Report

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20170725-64313.b\U326567.D
Injection Date: 25-Jul-2017 13:11:30 Instrument ID: HP5973U
Lims ID: DFTPP
Client ID:
Operator ID: DR ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: U-8270 Limit Group: MB - 8270D ICAL
Tune Method: DFTPP Method 8270D, BP 198

249 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	base peak, or >90% of 442	100.0 (52.7)
51	10-80% of the base peak	29.4
68	<2% of mass 69	0.0 (0.0)
69	Present	31.3
70	<2% of mass 69	0.0 (0.0)
127	10-80% of the base peak	43.7
197	<2% of mass 198	0.0
199	5-9% of mass 198	7.0
275	10-60% of the base peak	32.2
365	>1% of mass 198	5.2
441	present but <24% of mass 442	30.5 (16.1)
442	base peak, or >50% of 198	189.8
443	15-24% of mass 442	36.3 (19.1)

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20170725-64313.b\U326567.D\U-8270.rslt\spectra.d
Injection Date: 25-Jul-2017 13:11:30
Spectrum: Tune Spec :Average 1880-1882(12.12-12.13) Bgrd 1876(12.10)
Base Peak: 442.00
Minimum % Base Peak: 0
Number of Points: 133

m/z	Y	m/z	Y	m/z	Y	m/z	Y
39.00	1217	118.00	368	193.00	777	275.00	18168
50.00	4280	122.00	460	196.00	1961	276.00	2580
51.00	16616	123.00	675	198.00	56472	277.00	1722
52.00	901	127.00	24696	199.00	3973	278.00	172
56.00	495	128.00	1722	201.00	173	296.00	5296
57.00	1103	129.00	9692	203.00	187	297.00	720
63.00	714	130.00	635	204.00	2216	303.00	553
65.00	181	135.00	750	205.00	3492	315.00	482
69.00	17648	137.00	376	206.00	14549	316.00	188
74.00	1973	141.00	1165	207.00	2195	323.00	2086
75.00	2967	142.00	218	208.00	446	327.00	195
77.00	19680	147.00	649	211.00	538	334.00	1357
78.00	1502	148.00	1340	217.00	3827	335.00	186
79.00	1156	149.00	363	218.00	221	346.00	409
80.00	921	153.00	226	221.00	3511	352.00	544
81.00	1278	155.00	646	223.00	840	353.00	170
82.00	189	156.00	972	224.00	8452	354.00	767
83.00	215	160.00	185	225.00	2135	365.00	2960
86.00	375	161.00	536	227.00	3645	366.00	257
91.00	215	165.00	463	228.00	453	372.00	1446
92.00	403	166.00	406	229.00	553	373.00	209
93.00	2346	167.00	2710	231.00	194	383.00	178
98.00	1786	168.00	1528	243.00	301	402.00	622
99.00	1711	174.00	531	244.00	7151	403.00	950
101.00	734	175.00	831	245.00	790	421.00	777
103.00	173	177.00	493	246.00	1364	423.00	6191
104.00	497	179.00	1844	255.00	37392	424.00	1688
105.00	477	180.00	1336	256.00	5410	441.00	17224
107.00	6370	181.00	614	257.00	375	442.00	107208
108.00	981	185.00	371	258.00	2216	443.00	20488
110.00	12438	186.00	7777	259.00	199	444.00	1835
111.00	1766	187.00	2167	265.00	685		
116.00	200	189.00	420	273.00	1104		

Report Date: 26-Jul-2017 10:58:10 Chrom Revision: 2.2 20-Jun-2017 07:42:38
Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20170725-64313.b\U326567.D\U-8270.rslt\spectra.d
Injection Date: 25-Jul-2017 13:11:30
Spectrum: Tune Spec :Average 1880-1882(12.12-12.13) Bgrd 1876(12.10)
Base Peak: 442.00
Minimum % Base Peak: 0
Number of Points: 133

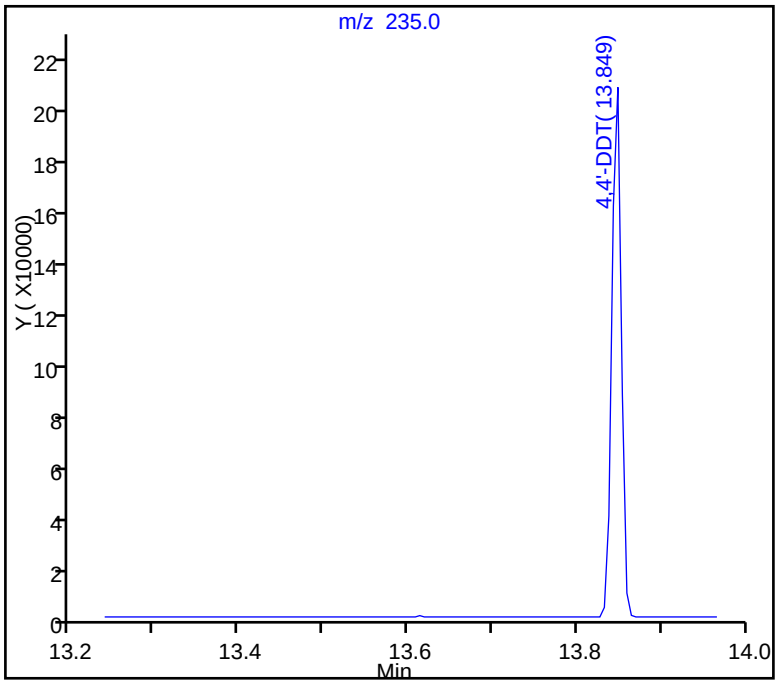
m/z	Y	m/z	Y	m/z	Y	m/z	Y
117.00	5157	192.00	520	274.00	1790		

Breakdown Report

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20170725-64313.b\U326567.D
Injection Date: 25-Jul-2017 13:11:30 Instrument ID: HP5973U
Lims ID: DFTPP
Client ID:
Operator ID: DR ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: U-8270 Limit Group: MB - 8270D ICAL

253 4,4'-DDT, Detector: MS SCAN



SW-846 Method

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

253 4,4'-DDT, Area = 161741
252 4,4'-DDD, Area = 0
251 4,4'-DDE, Area = 0

%Breakdown: 0.00%, Max Limit: 20.00%
Passed

Peak Tailing Report

TestAmerica Buffalo

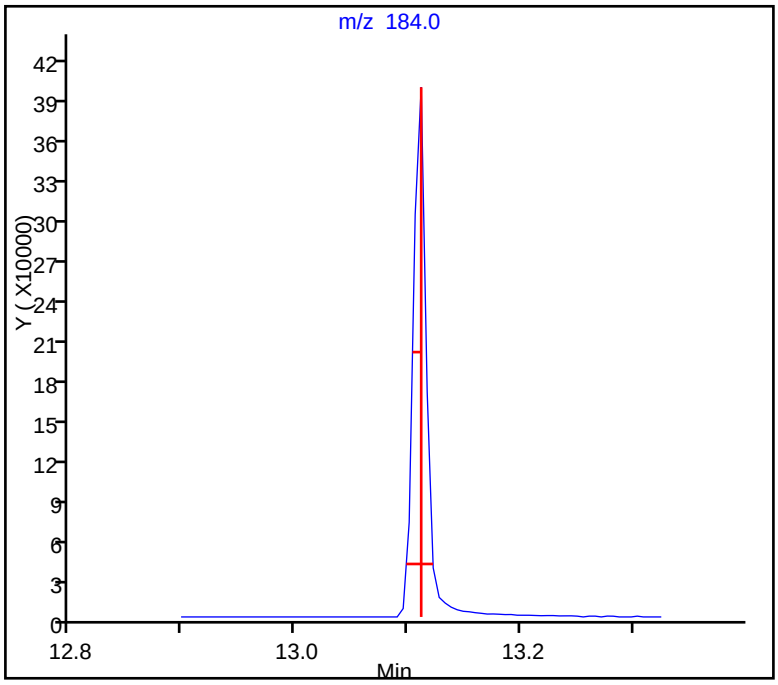
Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20170725-64313.b\U326567.D
Injection Date: 25-Jul-2017 13:11:30 Instrument ID: HP5973U
Lims ID: DFTPP
Client ID:
Operator ID: DR ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: U-8270 Limit Group: MB - 8270D ICAL

250 Benzidine_T, Detector: MS SCAN

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

Back Width = 0.011 (min.)
Front Width = 0.013 (min.)

Tailing Factor = 0.8, Max. Tailing < 2.00
Passed



Peak Tailing Report

TestAmerica Buffalo

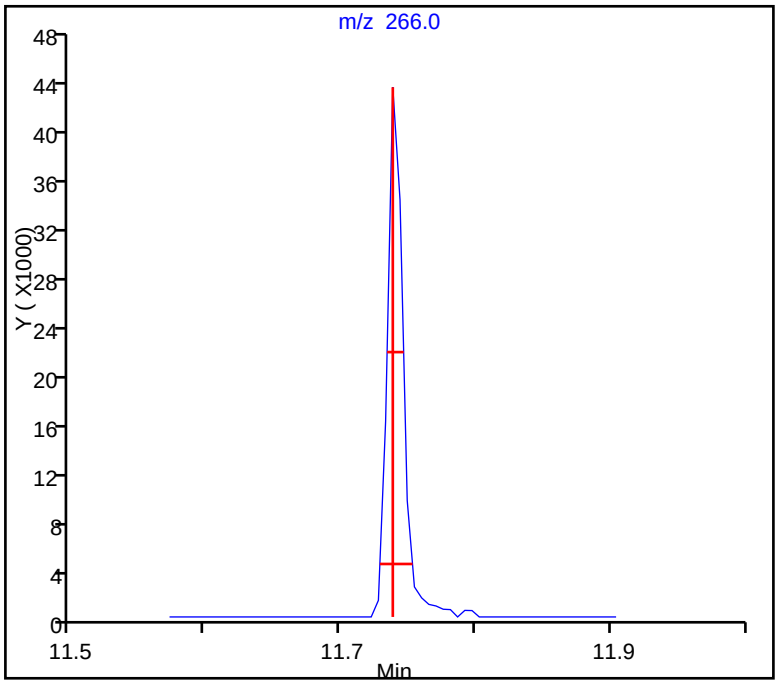
Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20170725-64313.b\U326567.D
Injection Date: 25-Jul-2017 13:11:30 Instrument ID: HP5973U
Lims ID: DFTPP
Client ID:
Operator ID: DR ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: U-8270 Limit Group: MB - 8270D ICAL

248 Pentachlorophenol_T, Detector: MS SCAN

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

Back Width = 0.015 (min.)
Front Width = 0.010 (min.)

Tailing Factor = 1.5, Max. Tailing < 2.00
Passed



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20170726-64341.b\U326589.D
Lims ID: DFTPP
Client ID:
Sample Type: DFTPP
Inject. Date: 26-Jul-2017 12:15:30 ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 480-0064341-002
Operator ID: DR Instrument ID: HP5973U

Method: \\ChromNA\Buffalo\ChromData\HP5973U\20170726-64341.b\U-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 26-Jul-2017 12:42:21 Calib Date: 21-Jul-2017 22:04:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973U\20170721-64235.b\U326545.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK022

First Level Reviewer: richardsd Date: 26-Jul-2017 12:42:21

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
248 Pentachlorophenol_T	266	11.739	11.739	0.000	95	87888	NR	NR	
249 DFTPP									
250 Benzidine_T	184	13.106	13.106	0.000	98	707268	NR	NR	
251 4,4'-DDE	246		13.402					ND	
252 4,4'-DDD	235		13.726					ND	
253 4,4'-DDT	235	13.843	13.843	0.000	99	354123	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

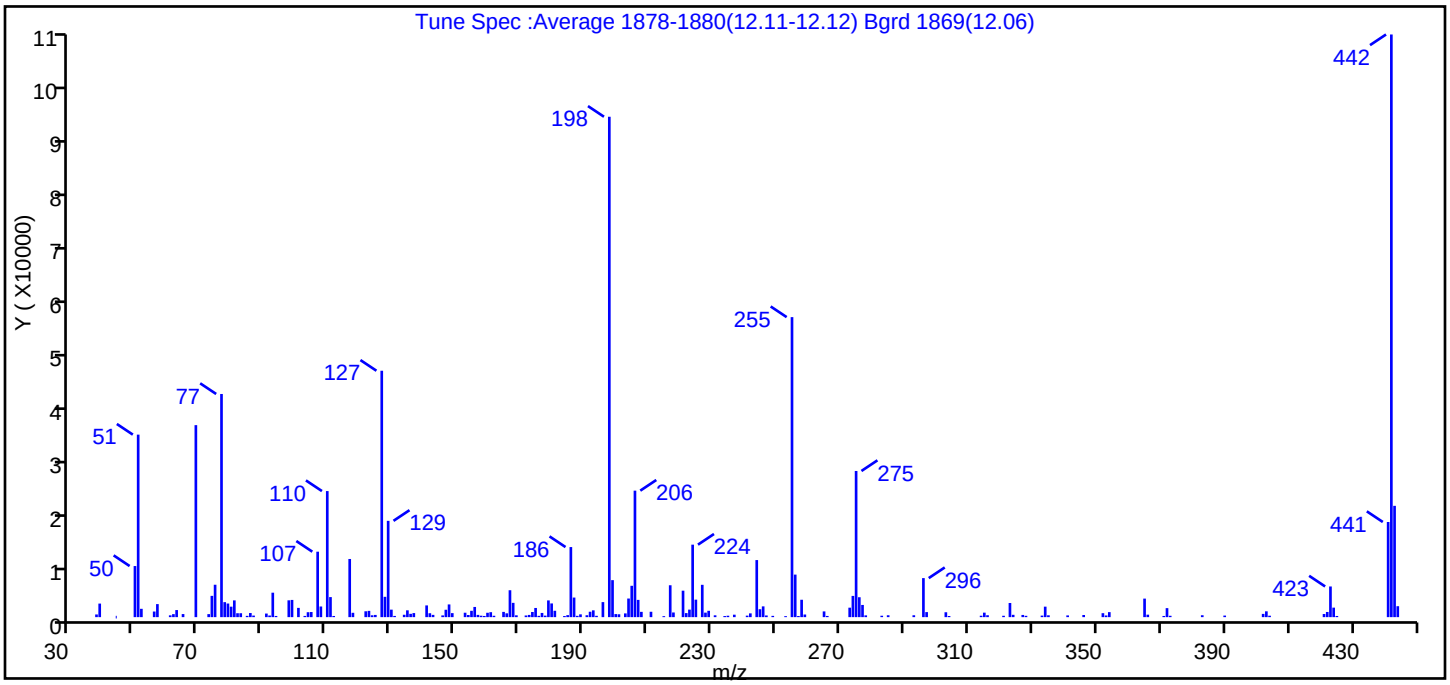
MB_DFTPP_WRK_00312 Amount Added: 1.00 Units: mL

MS Tune Report

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20170726-64341.b\U326589.D
Injection Date: 26-Jul-2017 12:15:30 Instrument ID: HP5973U
Lims ID: DFTPP
Client ID:
Operator ID: DR ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: U-8270 Limit Group: MB - 8270D ICAL
Tune Method: DFTPP Method 8270D, BP 198

249 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	base peak, or >90% of 442	100.0 (85.9)
51	10-80% of the base peak	36.5
68	<2% of mass 69	0.0 (0.0)
69	Present	38.4
70	<2% of mass 69	0.0 (0.0)
127	10-80% of the base peak	49.2
197	<2% of mass 198	0.0
199	5-9% of mass 198	7.4
275	10-60% of the base peak	29.2
365	>1% of mass 198	3.7
441	present but <24% of mass 442	19.0 (16.3)
442	base peak, or >50% of 198	116.4
443	15-24% of mass 442	22.2 (19.1)

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20170726-64341.b\U326589.D\U-8270.rslt\spectra.d
Injection Date: 26-Jul-2017 12:15:30
Spectrum: Tune Spec :Average 1878-1880(12.11-12.12) Bgrd 1869(12.06)
Base Peak: 442.00
Minimum % Base Peak: 0
Number of Points: 188

m/z	Y	m/z	Y	m/z	Y	m/z	Y
38.00	464	127.00	42576	191.00	330	274.00	3668
39.00	2343	128.00	3512	192.00	933	275.00	25256
44.00	0	129.00	16640	193.00	1176	276.00	3440
50.00	8830	130.00	1295	194.00	233	277.00	2107
51.00	31536	131.00	209	196.00	2597	278.00	307
52.00	1439	134.00	411	198.00	86464	283.00	244
56.00	972	135.00	1179	199.00	6392	285.00	324
57.00	2253	136.00	573	200.00	529	293.00	326
61.00	311	137.00	703	201.00	496	296.00	6745
62.00	517	141.00	2027	203.00	646	297.00	871
63.00	1224	142.00	676	204.00	3216	303.00	845
65.00	533	143.00	393	205.00	5416	304.00	196
69.00	33176	146.00	299	206.00	21856	314.00	245
73.00	522	147.00	1277	207.00	2982	315.00	776
74.00	3677	148.00	2196	208.00	915	316.00	329
75.00	5599	149.00	694	211.00	930	321.00	236
77.00	38560	153.00	764	215.00	169	323.00	2443
78.00	2591	154.00	368	217.00	5509	324.00	403
79.00	2353	155.00	1096	218.00	807	327.00	380
80.00	1810	156.00	1761	221.00	4573	328.00	229
81.00	2895	157.00	389	222.00	700	333.00	267
82.00	677	158.00	248	223.00	1300	334.00	1812
83.00	677	159.00	203	224.00	12524	335.00	318
85.00	221	160.00	756	225.00	3022	341.00	299
86.00	711	161.00	857	227.00	5586	346.00	370
87.00	269	162.00	239	228.00	778	352.00	684
91.00	620	165.00	908	229.00	1096	353.00	290
92.00	281	166.00	659	231.00	315	354.00	865
93.00	4226	167.00	4650	234.00	189	365.00	3203
94.00	205	168.00	2469	235.00	245	366.00	426
98.00	2908	169.00	317	237.00	424	371.00	204
99.00	2974	172.00	287	241.00	259	372.00	1557
101.00	1600	173.00	382	242.00	652	373.00	236

Report Date: 26-Jul-2017 12:42:22 Chrom Revision: 2.2 20-Jun-2017 07:42:38
Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20170726-64341.b\U326589.D\U-8270.rslt\spectra.d
Injection Date: 26-Jul-2017 12:15:30
Spectrum: Tune Spec :Average 1878-1880(12.11-12.12) Bgrd 1869(12.06)
Base Peak: 442.00
Minimum % Base Peak: 0
Number of Points: 188

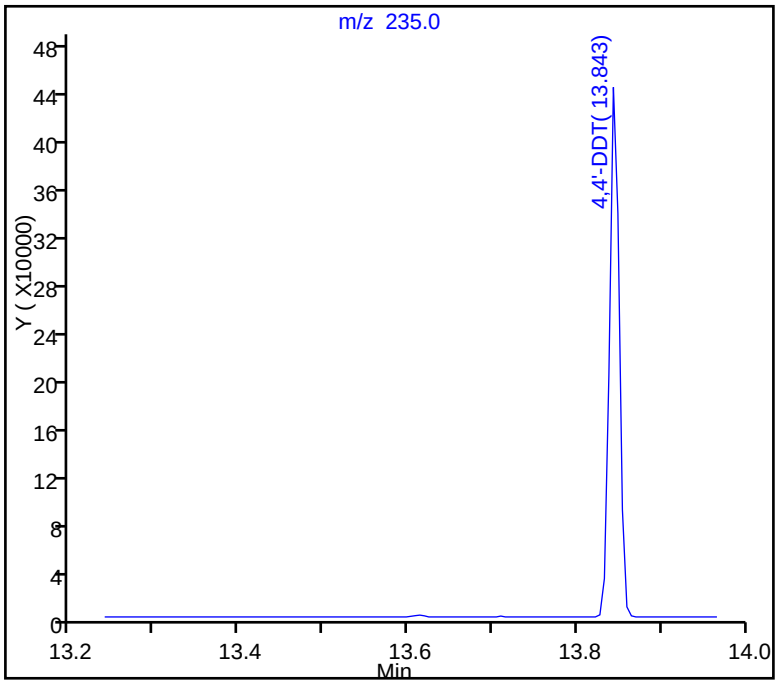
m/z	Y	m/z	Y	m/z	Y	m/z	Y
103.00	211	174.00	889	244.00	9861	383.00	330
104.00	851	175.00	1586	245.00	1370	390.00	272
105.00	884	176.00	226	246.00	1861	402.00	562
107.00	11309	177.00	727	247.00	289	403.00	1006
108.00	1840	178.00	262	249.00	221	404.00	247
110.00	21784	179.00	2891	253.00	172	421.00	545
111.00	3465	180.00	2368	255.00	51840	422.00	893
112.00	200	181.00	1099	256.00	7351	423.00	5300
117.00	10049	184.00	191	257.00	192	424.00	1643
118.00	751	185.00	347	258.00	3005	425.00	203
122.00	1014	186.00	12110	259.00	456	441.00	16440
123.00	1085	187.00	3385	265.00	992	442.00	100680
124.00	321	188.00	227	266.00	207	443.00	19232
125.00	382	189.00	483	273.00	1636	444.00	1891

Breakdown Report

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20170726-64341.b\U326589.D
Injection Date: 26-Jul-2017 12:15:30 Instrument ID: HP5973U
Lims ID: DFTPP
Client ID:
Operator ID: DR ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: U-8270 Limit Group: MB - 8270D ICAL

253 4,4'-DDT, Detector: MS SCAN



SW-846 Method

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

253 4,4'-DDT, Area = 354123
252 4,4'-DDD, Area = 0
251 4,4'-DDE, Area = 0

%Breakdown: 0.00%, Max Limit: 20.00%
Passed

Peak Tailing Report

TestAmerica Buffalo

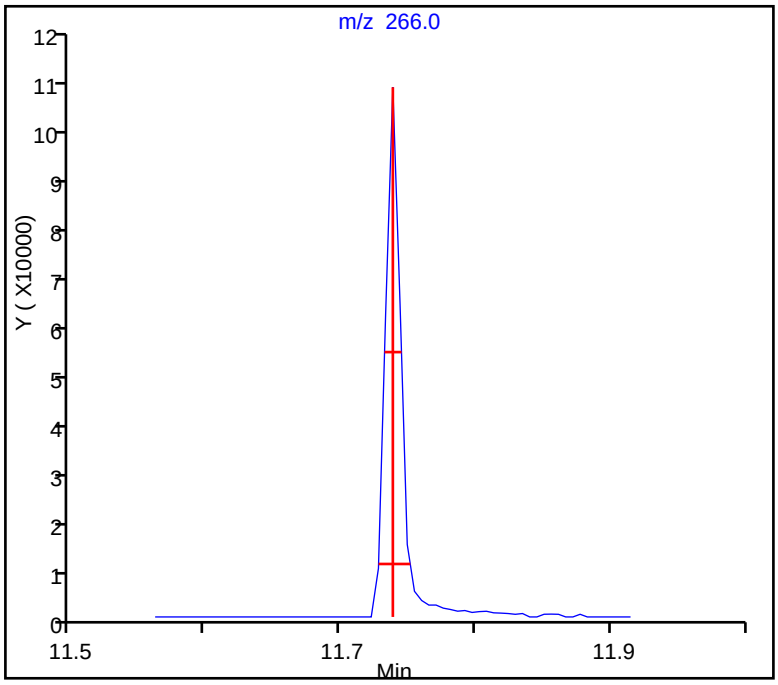
Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20170726-64341.b\U326589.D
Injection Date: 26-Jul-2017 12:15:30 Instrument ID: HP5973U
Lims ID: DFTPP
Client ID:
Operator ID: DR ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: U-8270 Limit Group: MB - 8270D ICAL

248 Pentachlorophenol_T, Detector: MS SCAN

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

Back Width = 0.013 (min.)
Front Width = 0.011 (min.)

Tailing Factor = 1.2, Max. Tailing < 2.00
Passed



Peak Tailing Report

TestAmerica Buffalo

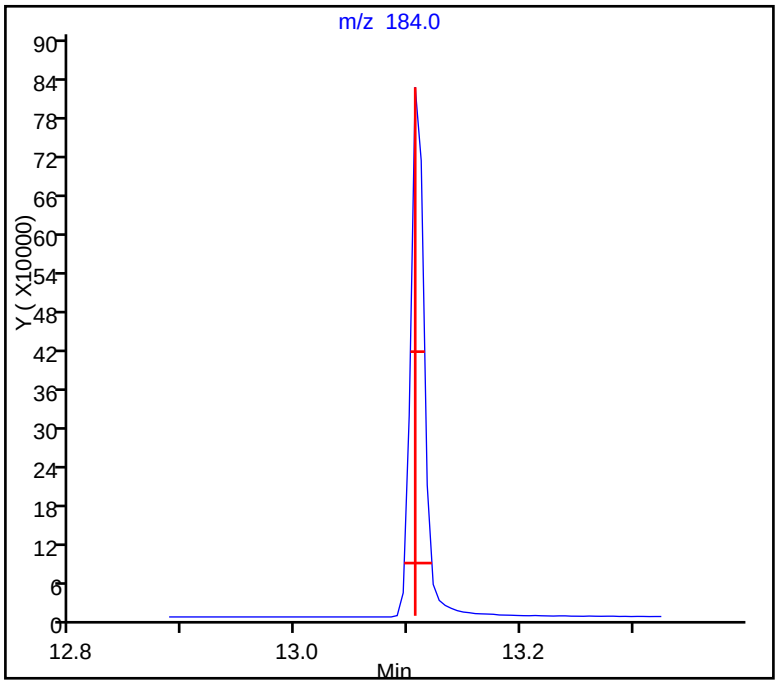
Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20170726-64341.b\U326589.D
Injection Date: 26-Jul-2017 12:15:30 Instrument ID: HP5973U
Lims ID: DFTPP
Client ID:
Operator ID: DR ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: U-8270 Limit Group: MB - 8270D ICAL

250 Benzidine_T, Detector: MS SCAN

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

Back Width = 0.015 (min.)
Front Width = 0.010 (min.)

Tailing Factor = 1.5, Max. Tailing < 2.00
Passed



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20170726-64362.b\U326606.D
Lims ID: DFTPP
Client ID:
Sample Type: DFTPP
Inject. Date: 26-Jul-2017 19:48:30 ALS Bottle#: 27 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 480-0064362-002
Operator ID: DR Instrument ID: HP5973U

Method: \\ChromNA\Buffalo\ChromData\HP5973U\20170726-64362.b\U-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 28-Jul-2017 15:26:05 Calib Date: 26-Jul-2017 18:28:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973U\20170726-64341.b\U326603.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK021

First Level Reviewer: richardsd Date: 27-Jul-2017 09:31:20

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
248 Pentachlorophenol_T	266	11.738	11.738	0.000	95	68763	NR	NR	
249 DFTPP									
250 Benzidine_T	184	13.106	13.106	0.000	98	635023	NR	NR	
251 4,4'-DDE	246		13.402					ND	
252 4,4'-DDD	235		13.726					ND	
253 4,4'-DDT	235	13.843	13.843	0.000	99	324497	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

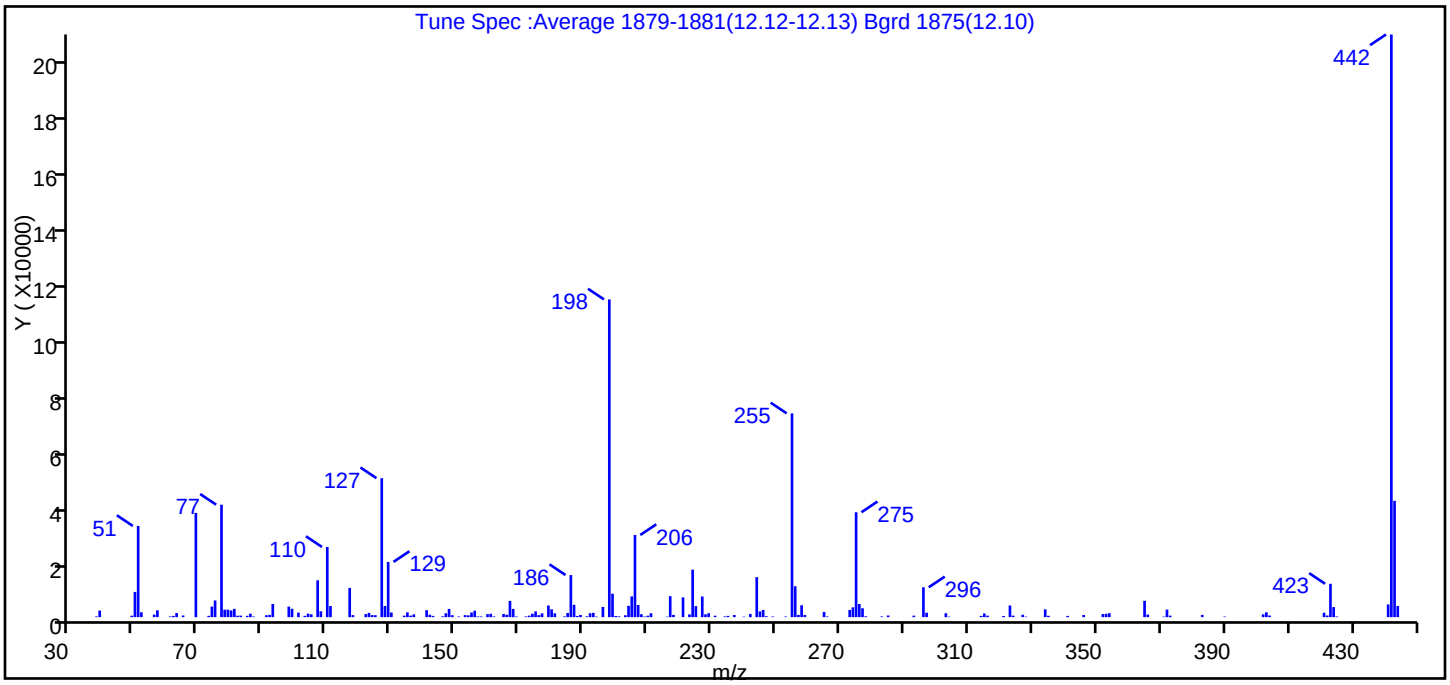
MB_DFTPP_WRK_00312 Amount Added: 1.00 Units: mL

MS Tune Report

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20170726-64362.b\U326606.D
Injection Date: 26-Jul-2017 19:48:30 Instrument ID: HP5973U
Lims ID: DFTPP
Client ID:
Operator ID: DR ALS Bottle#: 27 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: U-8270 Limit Group: MB - 8270D ICAL
Tune Method: DFTPP Method 8270D, BP 198

249 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	base peak, or >90% of 442	100.0 (54.5)
51	10-80% of the base peak	28.7
68	<2% of mass 69	0.0 (0.0)
69	Present	32.8
70	<2% of mass 69	0.0 (0.0)
127	10-80% of the base peak	43.8
197	<2% of mass 198	0.0
199	5-9% of mass 198	7.4
275	10-60% of the base peak	33.0
365	>1% of mass 198	5.1
441	present but <24% of mass 442	4.0 (2.2)
442	base peak, or >50% of 198	183.4
443	15-24% of mass 442	36.6 (20.0)

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20170726-64362.b\U326606.D\U-8270.rslt\spectra.d
Injection Date: 26-Jul-2017 19:48:30
Spectrum: Tune Spec :Average 1879-1881(12.12-12.13) Bgrd 1875(12.10)
Base Peak: 442.00
Minimum % Base Peak: 0
Number of Points: 184

m/z	Y	m/z	Y	m/z	Y	m/z	Y
38.00	247	128.00	3922	193.00	1505	274.00	3446
39.00	2308	129.00	19448	194.00	196	275.00	36920
49.00	519	130.00	1629	196.00	3571	276.00	4640
50.00	8875	134.00	532	198.00	111816	277.00	3127
51.00	32096	135.00	1685	199.00	8252	278.00	292
52.00	1702	136.00	541	200.00	416	283.00	243
56.00	883	137.00	982	201.00	277	285.00	586
57.00	2403	141.00	2454	203.00	658	293.00	529
61.00	248	142.00	855	204.00	3986	296.00	10511
62.00	444	143.00	442	205.00	7289	297.00	1554
63.00	1432	146.00	284	206.00	28920	303.00	1375
65.00	580	147.00	1361	207.00	4266	304.00	179
69.00	36696	148.00	2882	208.00	1028	314.00	438
73.00	469	149.00	685	209.00	197	315.00	1284
74.00	3712	151.00	212	210.00	509	316.00	524
75.00	5869	153.00	718	211.00	1378	321.00	417
77.00	39576	154.00	636	216.00	168	323.00	4087
78.00	2641	155.00	1621	217.00	7375	324.00	531
79.00	2628	156.00	2260	218.00	799	327.00	837
80.00	2356	157.00	240	221.00	6949	328.00	168
81.00	2909	158.00	229	223.00	978	334.00	2723
82.00	501	160.00	1053	224.00	16712	335.00	468
83.00	532	161.00	1189	225.00	3881	341.00	433
85.00	473	162.00	248	227.00	7261	346.00	758
86.00	1218	165.00	1107	228.00	997	352.00	1096
87.00	222	166.00	852	229.00	1379	353.00	1178
91.00	686	167.00	5724	231.00	517	354.00	1386
92.00	808	168.00	2887	234.00	251	365.00	5747
93.00	4611	169.00	223	235.00	448	366.00	901
98.00	3711	172.00	256	237.00	752	371.00	190
99.00	2946	173.00	529	240.00	173	372.00	2654
101.00	1593	174.00	1190	242.00	1132	373.00	531
103.00	462	175.00	2019	244.00	14067	383.00	793

Report Date: 28-Jul-2017 15:26:05 Chrom Revision: 2.2 20-Jun-2017 07:42:38
Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20170726-64362.b\U326606.D\U-8270.rslt\spectra.d
Injection Date: 26-Jul-2017 19:48:30
Spectrum: Tune Spec :Average 1879-1881(12.12-12.13) Bgrd 1875(12.10)
Base Peak: 442.00
Minimum % Base Peak: 0
Number of Points: 184

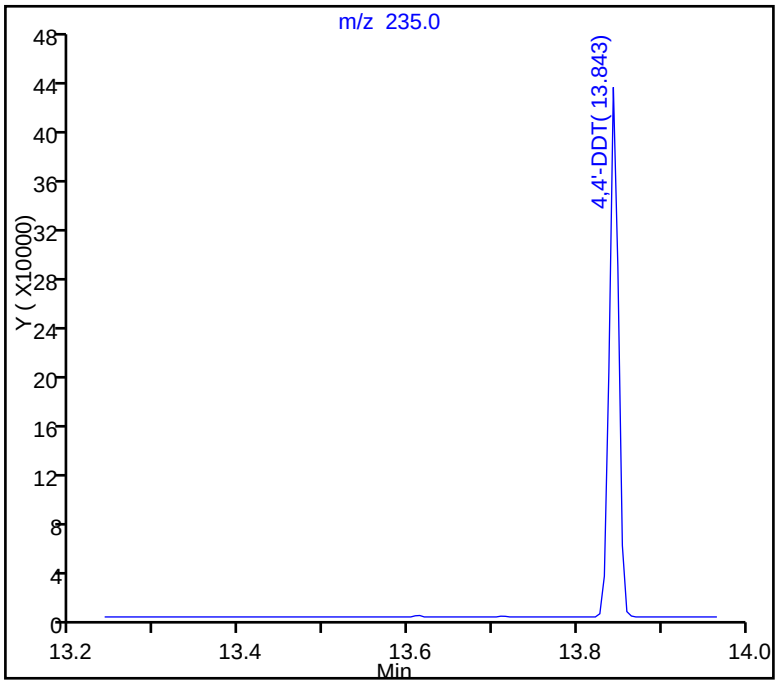
m/z	Y	m/z	Y	m/z	Y	m/z	Y
104.00	1235	176.00	712	245.00	2023	390.00	198
105.00	1000	177.00	1330	246.00	2539	402.00	990
107.00	12959	179.00	4097	247.00	321	403.00	1707
108.00	2063	180.00	2739	249.00	218	404.00	573
110.00	24704	181.00	1359	253.00	217	421.00	1551
111.00	3913	184.00	261	255.00	71720	422.00	579
117.00	10293	185.00	1462	256.00	10875	423.00	11736
118.00	721	186.00	14817	257.00	796	424.00	3543
122.00	1066	187.00	4331	258.00	4194	425.00	227
123.00	1496	188.00	424	259.00	777	441.00	4470
124.00	732	189.00	765	265.00	1848	442.00	205056
125.00	684	191.00	284	266.00	217	443.00	40928
127.00	48920	192.00	1382	273.00	2531	444.00	3937

Breakdown Report

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20170726-64362.b\U326606.D
Injection Date: 26-Jul-2017 19:48:30 Instrument ID: HP5973U
Lims ID: DFTPP
Client ID:
Operator ID: DR ALS Bottle#: 27 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: U-8270 Limit Group: MB - 8270D ICAL

253 4,4'-DDT, Detector: MS SCAN



SW-846 Method

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

253 4,4'-DDT, Area = 324497
252 4,4'-DDD, Area = 0
251 4,4'-DDE, Area = 0

%Breakdown: 0.00%, Max Limit: 20.00%
Passed

Peak Tailing Report

TestAmerica Buffalo

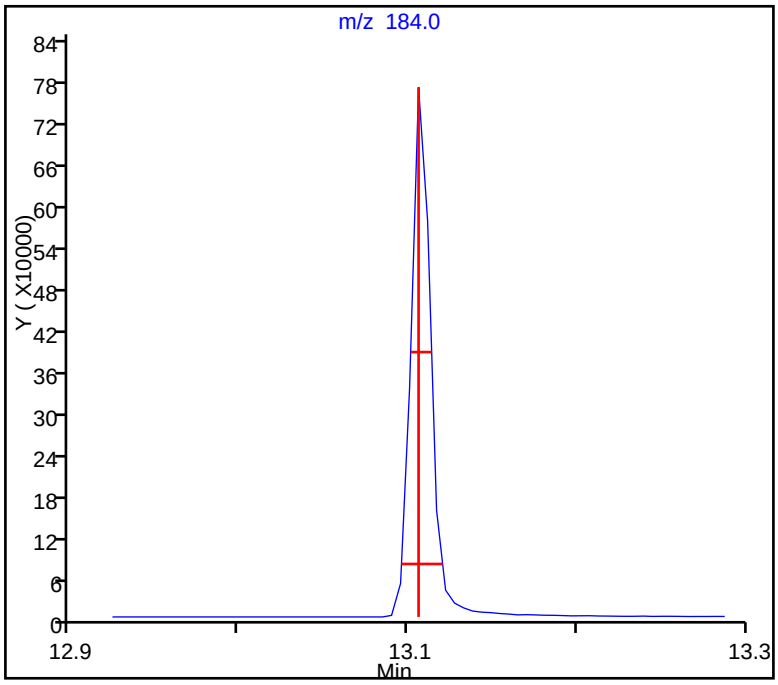
Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20170726-64362.b\U326606.D
Injection Date: 26-Jul-2017 19:48:30 Instrument ID: HP5973U
Lims ID: DFTPP
Client ID:
Operator ID: DR ALS Bottle#: 27 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: U-8270 Limit Group: MB - 8270D ICAL

250 Benzidine_T, Detector: MS SCAN

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

Back Width = 0.014 (min.)
Front Width = 0.010 (min.)

Tailing Factor = 1.4, Max. Tailing < 2.00
Passed



Peak Tailing Report

TestAmerica Buffalo

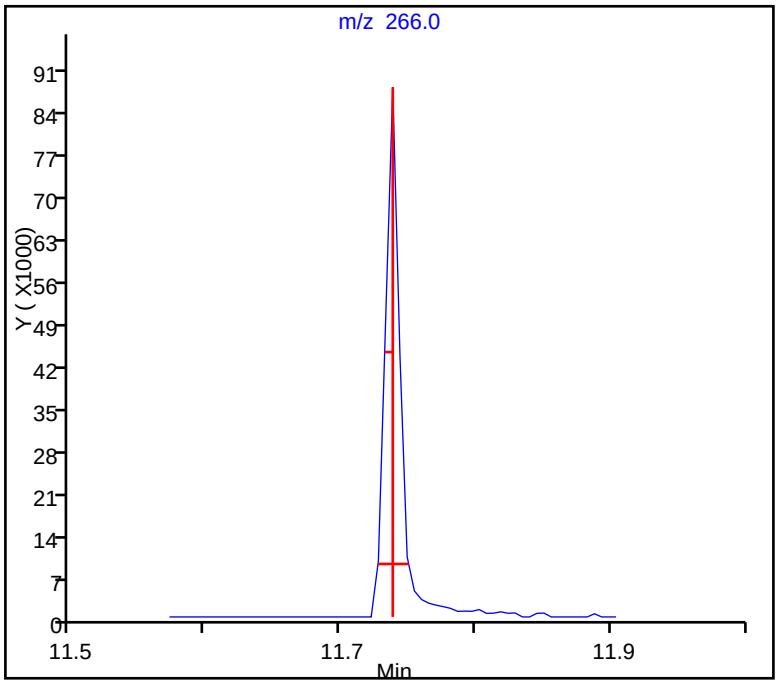
Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20170726-64362.b\U326606.D
Injection Date: 26-Jul-2017 19:48:30 Instrument ID: HP5973U
Lims ID: DFTPP
Client ID:
Operator ID: DR ALS Bottle#: 27 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: U-8270 Limit Group: MB - 8270D ICAL

248 Pentachlorophenol_T, Detector: MS SCAN

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

Back Width = 0.012 (min.)
Front Width = 0.011 (min.)

Tailing Factor = 1.1, Max. Tailing < 2.00
Passed



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121321-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 480-367823/1-A

Matrix: Solid | Lab File ID: U326572.D

Analysis Method: 8270D | Date Collected:

Extract. Method: 3550C | Date Extracted: 07/20/2017 07:46

Sample wt/vol: 30.24(g) | Date Analyzed: 07/25/2017 15:23

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

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

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

Analysis Batch No.: 368598 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	Biphenyl	ND		170	25
108-60-1	bis (2-chloroisopropyl) ether	ND		170	34
95-95-4	2,4,5-Trichlorophenol	ND		170	46
88-06-2	2,4,6-Trichlorophenol	ND		170	34
120-83-2	2,4-Dichlorophenol	ND		170	18
105-67-9	2,4-Dimethylphenol	ND		170	41
51-28-5	2,4-Dinitrophenol	ND		1600	780
121-14-2	2,4-Dinitrotoluene	ND		170	35
606-20-2	2,6-Dinitrotoluene	ND		170	20
91-58-7	2-Chloronaphthalene	ND		170	28
95-57-8	2-Chlorophenol	ND		170	31
91-57-6	2-Methylnaphthalene	ND		170	34
95-48-7	2-Methylphenol	ND		170	20
88-74-4	2-Nitroaniline	ND		330	25
88-75-5	2-Nitrophenol	ND		170	48
91-94-1	3,3'-Dichlorobenzidine	ND		330	200
99-09-2	3-Nitroaniline	ND		330	47
534-52-1	4,6-Dinitro-2-methylphenol	ND		330	170
101-55-3	4-Bromophenyl phenyl ether	ND		170	24
59-50-7	4-Chloro-3-methylphenol	ND		170	42
106-47-8	4-Chloroaniline	ND		170	42
7005-72-3	4-Chlorophenyl phenyl ether	ND		170	21
106-44-5	4-Methylphenol	ND		330	20
100-01-6	4-Nitroaniline	ND		330	88
100-02-7	4-Nitrophenol	ND		330	120
83-32-9	Acenaphthene	ND		170	25
208-96-8	Acenaphthylene	ND		170	22
98-86-2	Acetophenone	ND		170	23
120-12-7	Anthracene	ND		170	42
1912-24-9	Atrazine	ND		170	59
100-52-7	Benzaldehyde	ND		170	130
56-55-3	Benzo(a)anthracene	ND		170	17
50-32-8	Benzo(a)pyrene	ND		170	25
205-99-2	Benzo(b)fluoranthene	ND		170	27

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121321-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 480-367823/1-A

Matrix: Solid | Lab File ID: U326572.D

Analysis Method: 8270D | Date Collected:

Extract. Method: 3550C | Date Extracted: 07/20/2017 07:46

Sample wt/vol: 30.24(g) | Date Analyzed: 07/25/2017 15:23

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

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

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

Analysis Batch No.: 368598 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
191-24-2	Benzo(g,h,i)perylene	ND		170	18
207-08-9	Benzo(k)fluoranthene	ND		170	22
111-91-1	Bis(2-chloroethoxy)methane	ND		170	36
111-44-4	Bis(2-chloroethyl)ether	ND		170	22
117-81-7	Bis(2-ethylhexyl) phthalate	ND		170	58
85-68-7	Butyl benzyl phthalate	ND		170	28
105-60-2	Caprolactam	ND		170	51
86-74-8	Carbazole	ND		170	20
218-01-9	Chrysene	ND		170	38
84-74-2	Di-n-butyl phthalate	ND		170	29
117-84-0	Di-n-octyl phthalate	ND		170	20
53-70-3	Dibenz(a,h)anthracene	ND		170	30
132-64-9	Dibenzofuran	ND		170	20
84-66-2	Diethyl phthalate	ND		170	22
131-11-3	Dimethyl phthalate	ND		170	20
206-44-0	Fluoranthene	ND		170	18
86-73-7	Fluorene	ND		170	20
118-74-1	Hexachlorobenzene	ND		170	23
87-68-3	Hexachlorobutadiene	ND		170	25
77-47-4	Hexachlorocyclopentadiene	ND		170	23
67-72-1	Hexachloroethane	ND		170	22
193-39-5	Indeno(1,2,3-cd)pyrene	ND		170	21
78-59-1	Isophorone	ND		170	36
621-64-7	N-Nitrosodi-n-propylamine	ND		170	29
86-30-6	N-Nitrosodiphenylamine	ND		170	140
91-20-3	Naphthalene	ND		170	22
98-95-3	Nitrobenzene	ND		170	19
87-86-5	Pentachlorophenol	ND		330	170
85-01-8	Phenanthrene	ND		170	25
108-95-2	Phenol	ND		170	26
129-00-0	Pyrene	ND		170	20

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121321-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 480-367823/1-A

Matrix: Solid | Lab File ID: U326572.D

Analysis Method: 8270D | Date Collected:

Extract. Method: 3550C | Date Extracted: 07/20/2017 07:46

Sample wt/vol: 30.24(g) | Date Analyzed: 07/25/2017 15:23

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

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

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

Analysis Batch No.: 368598 | Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol	88		54-120
321-60-8	2-Fluorobiphenyl	84		60-120
367-12-4	2-Fluorophenol	75		52-120
4165-60-0	Nitrobenzene-d5	84		53-120
1718-51-0	p-Terphenyl-d14	100		65-121
4165-62-2	Phenol-d5	71		54-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20170725-64313.b\U326572.D
Lims ID: MB 480-367823/1-A
Client ID:
Sample Type: MB
Inject. Date: 25-Jul-2017 15:23:30 ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 480-0064313-007
Operator ID: DR Instrument ID: HP5973U

Method: \\ChromNA\Buffalo\ChromData\HP5973U\20170725-64313.b\U-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 26-Jul-2017 10:58:16 Calib Date: 21-Jul-2017 22:04:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973U\20170721-64235.b\U326545.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK022

First Level Reviewer: richardsd Date: 25-Jul-2017 15:49:39

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	6.840	6.840	0.000	93	184012	40.0	40.0	
* 2 Naphthalene-d8	136	8.357	8.357	0.000	99	649311	40.0	40.0	
* 3 Acenaphthene-d10	164	10.414	10.414	0.000	97	286073	40.0	40.0	
* 4 Phenanthrene-d10	188	11.920	11.920	0.000	95	473299	40.0	40.0	
* 5 Chrysene-d12	240	14.313	14.314	-0.001	97	437116	40.0	40.0	
* 6 Perylene-d12	264	15.873	15.873	0.000	97	388871	40.0	40.0	
$ 7 2-Fluorophenol	112	5.242	5.242	0.000	91	173266	40.0	30.0	
$ 8 Phenol-d5	99	6.364	6.364	0.000	98	206823	40.0	28.3	
$ 9 Nitrobenzene-d5	82	7.486	7.486	0.000	85	150834	40.0	33.4	
$ 10 2-Fluorobiphenyl	172	9.618	9.618	0.000	99	361872	40.0	33.6	
$ 11 2,4,6-Tribromophenol	330	11.236	11.236	0.000	90	53039	40.0	35.0	
$ 12 p-Terphenyl-d14	244	13.330	13.331	-0.001	100	352563	40.0	39.9	
22 Chlorotoluene N.O.S	1		0.700					ND	
14 o-Anisidine	1		0.700					ND	
13 3-Chloropyridine	1		0.700					ND	
15 5-Ethyl-5-phenyl barbituri	1		0.700					ND	
19 Chlorobenzotrifluoride N.O	1		0.700					ND	
21 N-Methylaniline	1		0.700					ND	
20 2-Chlorotoluene	91		0.700					ND	
16 Lidocaine	1		0.700					ND	
17 4-Chloropyridine	1		0.700					ND	
18 2-Chloropyridine	1		0.700					ND	
23 1,4-Dioxane	88		2.806					ND	
24 N-Nitrosodimethylamine	42		3.282					ND	
25 Pyridine	52		3.378					ND	
26 2-Picoline	93		4.580					ND	
27 N-Nitrosomethylethylamine	88		4.692					ND	
28 Acrylamide	71		5.018					ND	
29 Methyl methanesulfonate	80		5.076					ND	
30 N-Nitrosodiethylamine	102		5.600					ND	
31 Ethyl methanesulfonate	79		5.942					ND	
32 Benzaldehyde	77		6.311					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
33 Phenol	94		6.380					ND	
34 Aniline	93		6.434					ND	
35 Bis(2-chloroethyl)ether	93		6.487					ND	
36 Pentachloroethane	167		6.588					ND	
37 2-Chlorophenol	128		6.594					ND	
38 n-Decane	57		6.631					ND	
39 1,3-Dichlorobenzene	146		6.781					ND	
40 1,4-Dichlorobenzene	146		6.861					ND	
41 Benzyl alcohol	108		6.979					ND	
42 1,2-Dichlorobenzene	146		7.053					ND	
43 2-Methylphenol	108		7.102					ND	
44 2,2'-oxybis[1-chloropropan	45		7.139					ND	
45 Indene	115		7.155					ND	
46 4-Methylphenol	108		7.278					ND	
47 N-Nitrosodi-n-propylamine	70		7.289					ND	
49 Acetophenone	105		7.299					ND	
48 N-Nitrosopyrrolidine	100		7.326					ND	
51 4-Methylbenzenamine	106		7.347					ND	
50 N-Nitrosomorpholine	56		7.368					ND	
52 2-Toluidine	106		7.416					ND	
53 Hexachloroethane	117		7.460					ND	
54 Nitrobenzene	77		7.508					ND	
55 N-Nitrosopiperidine	114		7.748					ND	
56 Isophorone	82		7.785					ND	
58 2-Chloroaniline	127		7.844					ND	
57 2,4-Dichlorotoluene	125		7.871					ND	
59 2-Nitrophenol	139		7.892					ND	
60 2,4-Dimethylphenol	107		7.914					ND	
61 1,3,5-Trichlorobenzene	180		7.988					ND	
65 Tetraethyl lead	237		7.999					ND	
62 Bis(2-chloroethoxy)methane	93		8.015					ND	
64 Benzoic acid	105		8.026					ND	
63 o,o',o''-Triethylphosphoro	198		8.047					ND	
67 2,4-Dichlorophenol	162		8.175					ND	
66 alpha,alpha-Dimethyl phene	58		8.228					ND	
68 1,2,4-Trichlorobenzene	180		8.288					ND	
69 4-Chlorophenol	128		8.346					ND	
71 Alpha-Terpineol	59		8.362					ND	
70 Naphthalene	128		8.384					ND	
304 1,3-Dibromobenzene TIC	236		8.389				ND	ND	
72 4-Chloroaniline	127		8.421					ND	
305 1,4-Dibromobenzene TIC	236		8.437				ND	ND	
73 2,6-Dichlorophenol	162		8.442					ND	
74 Hexachlorobutadiene	225		8.528					ND	
75 Hexachloropropene	213		8.565					ND	
76 Caprolactam	113		8.806					ND	
77 Quinoline	129		8.837					ND	
78 N-Nitrosodi-n-butylamine	84		8.869					ND	
79 p-Phenylene diamine	108		8.896					ND	
80 4-Chloro-3-methylphenol	107		8.977					ND	
81 Safrole, Total	162		9.142					ND	
83 2-Methylnaphthalene	142		9.201					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
82 2,4,5-Trichlorotoluene	159		9.222					ND	
84 Phthalic anhydride	104		9.244					ND	
85 1-Methylnaphthalene	142		9.319					ND	
86 Hexachlorocyclopentadiene	237		9.399					ND	
87 1,2,4,5-Tetrachlorobenzene	216		9.404					ND	
88 Isosafrole Peak 1	162		9.489					ND	
89 2,4,6-Trichlorophenol	196		9.527					ND	
91 2,4,5-Trichlorophenol	196		9.575					ND	
90 2,3-Dichlorobenzenamine	161		9.596					ND	
94 1,1'-Biphenyl	154		9.741					ND	
92 Isosafrole	162		9.756					ND	
93 Isosafrole Peak 2	162		9.756					ND	
95 2-Chloronaphthalene	162		9.778					ND	
96 1,2,3,4 -Tetrachlorobenzen	216		9.810					ND	
98 2-Nitroaniline	65		9.874					ND	
97 1-Chloronaphthalene	162		9.879					ND	
100 Dicyclohexylamine	138		9.986					ND	
99 1,4-Naphthoquinone	158		10.034					ND	
102 Dimethyl phthalate	163		10.067					ND	
101 1,4-Dinitrobenzene	168		10.082					ND	
103 1,3-Dinitrobenzene	168		10.109					ND	
104 2,6-Dinitrotoluene	165		10.141					ND	
105 Acenaphthylene	152		10.259					ND	
106 3-Nitroaniline	138		10.334					ND	
108 Acenaphthene	153		10.446					ND	
107 2,4-Dinitrophenol	184		10.451					ND	
109 4-Nitrophenol	109		10.499					ND	
111 2,4-Dinitrotoluene	165		10.590					ND	
112 Dibenzofuran	168		10.633					ND	
113 Pentachlorobenzene	250		10.664					ND	
110 n,n'-Dimethylaniline	120		10.665					ND	
116 2,3,4,6-Tetrachlorophenol	232		10.761					ND	
114 1-Naphthylamine	143		10.771					ND	
115 2,3,5,6-Tetrachlorophenol	232		10.777					ND	
118 Diethyl phthalate	149		10.830					ND	
119 Hexadecane	57		10.841					ND	
117 2-Naphthylamine	143		10.851					ND	
121 4-Chlorophenyl phenyl ethe	204		10.969					ND	
120 Thionazin	97		10.974					ND	
122 4-Nitroaniline	138		10.985					ND	
123 Fluorene	166		10.996					ND	
126 Tributyl phosphate	99		11.028					ND	
125 4,6-Dinitro-2-methylphenol	198		11.028					ND	
124 N-Nitro-o-toluidine	152		11.044					ND	
128 Diphenylamine	169		11.087					ND	
127 N-Nitrosodiphenylamine	169		11.087					ND	
130 Azobenzene	77		11.135					ND	
129 1,2-Diphenylhydrazine	77		11.135					ND	
131 Sulfotepp	322		11.279					ND	
132 1,3,5-Trinitrobenzene	213		11.391					ND	
134 Diallate Peak 1	43		11.428					ND	
133 Diallate	43		11.428					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
136 Phorate	75		11.434					ND	
135 Phenacetin	108		11.434					ND	
137 4-Bromophenyl phenyl ether	248		11.466					ND	
138 Diallate Peak 2	43		11.519					ND	
142 Simazine	201		11.562					ND	
139 Hexachlorobenzene	284		11.562					ND	
141 Atrazine	200		11.589					ND	
140 Dimethoate	87		11.599					ND	
143 Pentachlorophenol	266		11.739					ND	
144 n-Octadecane	57		11.749					ND	
145 4-Aminobiphenyl	169		11.776					ND	
146 Pronamide	173		11.813					ND	
147 Pentachloronitrobenzene	237		11.818					ND	
148 Disulfoton	88		11.936					ND	
149 Dinoseb	211		11.947					ND	
150 Phenanthrene	178		11.947					ND	
151 Anthracene	178		11.995					ND	
152 Carbazole	167		12.129					ND	
153 Alachlor	160		12.235					ND	
154 Methyl parathion	109		12.288					ND	
155 Di-n-butyl phthalate	149		12.396					ND	
156 2-Methylanthracene	192		12.513					ND	
157 Ethyl Parathion	97		12.630					ND	
159 Anthraquinone	180		12.673					ND	
158 4-Nitroquinoline-1-oxide	190		12.700					ND	
160 Methapyrilene	58		12.737					ND	
161 Isodrin	193		12.967					ND	
162 Fluoranthene	202		13.031					ND	
163 1-Hydroxyanthraquinone	224		13.058					ND	
164 Benzidine	184		13.106					ND	
165 Pyrene	202		13.240					ND	
166 Aramite Peak 1	185		13.330					ND	
168 Aramite Peak 2	185		13.394					ND	
167 Aramite, Total	185		13.394					ND	
170 1,4-Dihydroxyanthraquinone	240		13.475					ND	
169 p-Dimethylamino azobenzene	120		13.506					ND	
171 Chlorobenzilate	139		13.533					ND	
173 Famphur	218		13.688					ND	
174 9-Octadecenamide	72		13.710					ND	
172 Butyl benzyl phthalate	149		13.721					ND	
175 3,3'-Dimethylbenzidine	212		13.806					ND	
176 Kepone	272		13.854					ND	
177 2-Acetylaminofluorene	181		14.041					ND	
178 Bis(2-ethylhexyl) phthalat	149		14.201					ND	
179 3,3'-Dichlorobenzidine	252		14.239					ND	
180 4,4'-Methylene bis(2-chlor	231		14.292					ND	
181 Benzo[a]anthracene	228		14.303					ND	
182 Chrysene	228		14.340					ND	
183 Di-n-octyl phthalate	149		14.789					ND	
184 6-Methylchrysene	242		14.842					ND	
185 Benzo[b]fluoranthene	252		15.403					ND	
187 Benzo[k]fluoranthene	252		15.435					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
186 7,12-Dimethylbenz(a)anthra	256		15.467					ND	
188 Hexachlorophene	196		15.740					ND	
190 Benzo[a]pyrene	252		15.809					ND	
189 Benzo[e]pyrene	252		15.847					ND	
191 3-Methylcholanthrene	252		16.343					ND	
192 Dibenz[a,h]acridine	279		17.161					ND	
193 Dibenz(a,h)anthracene	278		17.433					ND	
194 Indeno[1,2,3-cd]pyrene	276		17.444					ND	
195 Benzo[g,h,i]perylene	276		17.925					ND	
196 Dibenzo[a,e]pyrene	302		22.022					ND	
197 2-Aminopyridine TIC	1		0.000					ND	
232 Benzeneacetonitrile	1		0.700					ND	
198 n,n'-Dimethylacetamide	1		0.700					ND	
221 Pendimethalin	1		0.700					ND	
208 2,4-Toluene diamine	1		0.700					ND	
199 CBF-400	1		0.700					ND	
202 Phenyl ether	1		0.700					ND	
203 CN-500	1		0.700					ND	
204 1-Methylcyclopentanol	1		0.700					ND	
205 Octachlorostyrene	1		0.700					ND	
220 Dibenzo[a,h]pyrene	1		0.700					ND	
201 3-Chlorotoluene	1		0.700					ND	
236 o-Anisidine TIC	1		0.700					ND	
207 3-Chlorobenzotrifluoride	1		0.700					ND	
224 NVF-400	1		0.700					ND	
213 4-Chlorotoluene	91		0.700					ND	
200 Photomirex TIC	1		0.700					ND	
222 7H-Dibenzo[c,g]carbazole	1		0.700					ND	
219 5-Methyl-o-Anisidine TIC	1		0.700					ND	
217 2-Chlorobenzotrifluoride	1		0.700					ND	
218 2,6-Dichlorotoluene	1		0.700					ND	
223 p-Fluoroaniline	1		0.700					ND	
206 Phenylmercaptan	110		0.700					ND	
215 1-Bromopropane	1		0.700					ND	
214 2,6-Dichlorotoluene TIC	1		0.700					ND	
211 1,3-phenylenediamine TIC	1		0.700					ND	
229 Benzophenone	1		0.700					ND	
234 4,4'-Methylene bis(2-chlor	1		0.700					ND	
227 4-tert-Octylphenol	1		0.700					ND	
230 1,4-Dioxane TIC	1		0.700					ND	
233 Tetramethyl lead TIC	1		0.700					ND	
210 Benzeneacetic acid (TIC)	1		0.700					ND	
231 1,2,3-Trimethylbenzene	105		0.700					ND	
228 2,6-Dichloropyridine	1		0.700					ND	
235 5-Methyl-o-Anisidine	1		0.700					ND	
225 alpha,alpha-Dimethyl phene	1		0.700					ND	
226 Dibenz(a,i)pyrene	1		0.700					ND	
240 4-Chloro-3-nitro-alpha,alp	1		0.700					ND	
243 Phenylacetic Acid	1		0.700					ND	
246 2,3-Dichlorophenol	1		0.700					ND	
241 2,4-Dichlorotoluene TIC	1		0.700					ND	
242 4-Chlorobenzotrifluoride	1		0.700					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
216 3-Chlorobenzotrifluoride T	1		0.700					ND	
238 CU-600	1		0.700					ND	
239 2-Chlorobenzotrifluoride T	1		0.700					ND	
212 Dibenz[a,j]acridine	279		0.700					ND	
247 Hexamethyldisiloxane TIC	1		0.700					ND	
209 CBF-500	1		0.700					ND	
237 CAG-800	1		0.700					ND	
244 2,4-Xylidine TIC	1		0.700					ND	
245 Tris(2,3-dibromopropyl)pho	1		0.700					ND	
S 255 EPH Adjustment 1	1		0.700					ND	
S 256 3-Methylphenol	1		0.700					ND	
S 254 Total Cresols	1		0.700					ND	
S 257 3 & 4 Methylphenol	108		0.700					ND	
T 312 Fluorobenzene TIC	96		2.342				50.0	ND	
T 317 1-Bromo-2-chloroethane TIC	63		3.207				50.0	ND	
T 306 Ethylene Dibromide TIC	107		4.473				50.0	ND	
T 307 4-Chlorobenzotrifluoride T	180		5.050				50.0	ND	
T 314 1-Bromo-3-fluorobenzene TI	95		5.809				49.5	ND	
T 310 4-Bromofluorobenzene TIC	174		5.937				50.0	ND	
T 311 1,2-dichloro-4-(trifluorom	214		6.605				50.0	ND	
T 313 2-Bromopyridine TIC	78		6.941				50.0	ND	
T 308 3-Nitro-4-Chlorobenzotrifl	179		7.978				50.0	ND	
T 315 1-Bromo-4-ethylbenzene TIC	169		7.988				48.5	ND	
T 316 3-Amino-4-Chlorobenzotrifl	195		8.015				49.5	ND	
T 309 3'-Bromoacetophenone TIC	183		9.367				49.5	ND	
T 263 2,3,7,8-TCDD	322		10.700					ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

MB_Diaz_WRK_00002	Amount Added:	1.00	Units: mL	
MB_INTSTD_STK_00036	Amount Added:	20.00	Units: uL	Run Reagent

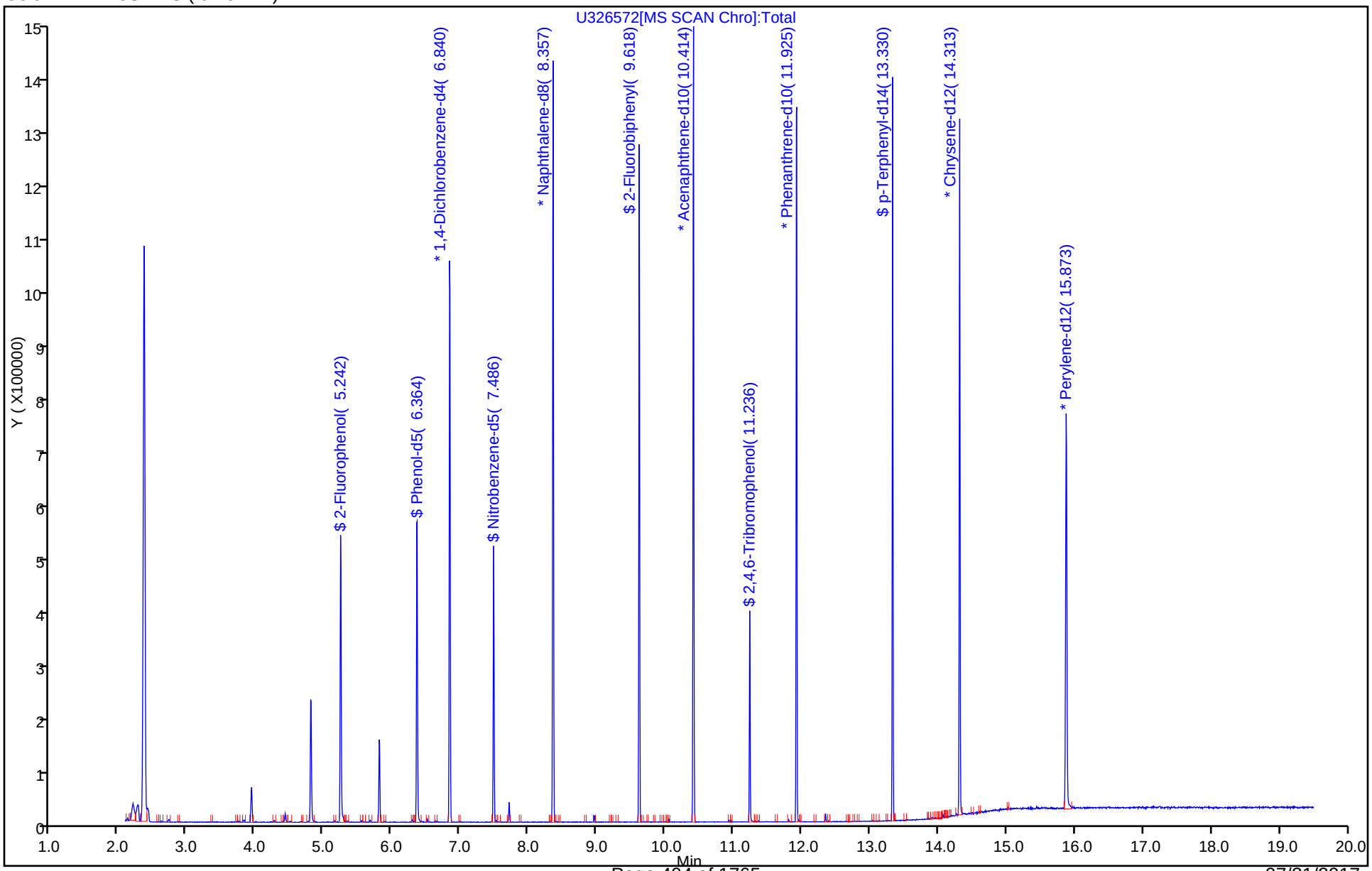
Report Date: 26-Jul-2017 10:58:20 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20170725-64313.b\U326572.D

Injection Date:	25-Jul-2017 15:23:30	Instrument ID:	HP5973U	Operator ID:	DR
Lims ID:	MB 480-367823/1-A			Worklist Smp#:	7
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	U-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.: 480-121321-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 480-367823/2-A

Matrix: Solid | Lab File ID: U326587.D

Analysis Method: 8270D | Date Collected:

Extract. Method: 3550C | Date Extracted: 07/20/2017 07:46

Sample wt/vol: 30.68(g) | Date Analyzed: 07/25/2017 22:24

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.: 368598 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	Biphenyl	1370		170	24
108-60-1	bis (2-chloroisopropyl) ether	784		170	33
95-95-4	2,4,5-Trichlorophenol	1420		170	45
88-06-2	2,4,6-Trichlorophenol	1460		170	33
120-83-2	2,4-Dichlorophenol	1310		170	18
105-67-9	2,4-Dimethylphenol	1250		170	40
51-28-5	2,4-Dinitrophenol	3720		1600	770
121-14-2	2,4-Dinitrotoluene	1630		170	34
606-20-2	2,6-Dinitrotoluene	1640		170	20
91-58-7	2-Chloronaphthalene	1360		170	27
95-57-8	2-Chlorophenol	1130		170	30
91-57-6	2-Methylnaphthalene	1250		170	33
95-48-7	2-Methylphenol	1110		170	20
88-74-4	2-Nitroaniline	1430		320	24
88-75-5	2-Nitrophenol	1620		170	47
91-94-1	3,3'-Dichlorobenzidine	2800		320	200
99-09-2	3-Nitroaniline	1390		320	46
534-52-1	4,6-Dinitro-2-methylphenol	3720		320	170
101-55-3	4-Bromophenyl phenyl ether	1670		170	23
59-50-7	4-Chloro-3-methylphenol	1190		170	41
106-47-8	4-Chloroaniline	1090		170	41
7005-72-3	4-Chlorophenyl phenyl ether	1400		170	21
106-44-5	4-Methylphenol	1100		320	20
100-01-6	4-Nitroaniline	1250		320	87
100-02-7	4-Nitrophenol	2490		320	120
83-32-9	Acenaphthene	1340		170	24
208-96-8	Acenaphthylene	1350		170	22
98-86-2	Acetophenone	1040		170	22
120-12-7	Anthracene	1440		170	41
1912-24-9	Atrazine	2690		170	58
100-52-7	Benzaldehyde	2010		170	130
56-55-3	Benzo(a)anthracene	1430		170	17
50-32-8	Benzo(a)pyrene	1450		170	24
205-99-2	Benzo(b)fluoranthene	1480		170	26

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121321-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 480-367823/2-A

Matrix: Solid | Lab File ID: U326587.D

Analysis Method: 8270D | Date Collected:

Extract. Method: 3550C | Date Extracted: 07/20/2017 07:46

Sample wt/vol: 30.68(g) | Date Analyzed: 07/25/2017 22:24

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.: 368598 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
191-24-2	Benzo(g,h,i)perylene	1690		170	18
207-08-9	Benzo(k)fluoranthene	1380		170	22
111-91-1	Bis(2-chloroethoxy)methane	1160		170	35
111-44-4	Bis(2-chloroethyl)ether	1010		170	22
117-81-7	Bis(2-ethylhexyl) phthalate	1540		170	57
85-68-7	Butyl benzyl phthalate	1550		170	27
105-60-2	Caprolactam	2340		170	50
86-74-8	Carbazole	1380		170	20
218-01-9	Chrysene	1410		170	37
84-74-2	Di-n-butyl phthalate	1380		170	28
117-84-0	Di-n-octyl phthalate	1540		170	20
53-70-3	Dibenz(a,h)anthracene	1650		170	29
132-64-9	Dibenzofuran	1330		170	20
84-66-2	Diethyl phthalate	1330		170	22
131-11-3	Dimethyl phthalate	1370		170	20
206-44-0	Fluoranthene	1350		170	18
86-73-7	Fluorene	1320		170	20
118-74-1	Hexachlorobenzene	1630		170	22
87-68-3	Hexachlorobutadiene	1350		170	24
77-47-4	Hexachlorocyclopentadiene	1450		170	22
67-72-1	Hexachloroethane	1040		170	22
193-39-5	Indeno(1,2,3-cd)pyrene	1640		170	21
78-59-1	Isophorone	1130		170	35
621-64-7	N-Nitrosodi-n-propylamine	977		170	28
86-30-6	N-Nitrosodiphenylamine	1570		170	130
91-20-3	Naphthalene	1220		170	22
98-95-3	Nitrobenzene	1260		170	19
87-86-5	Pentachlorophenol	3000		320	170
85-01-8	Phenanthrene	1450		170	24
108-95-2	Phenol	1040		170	25
129-00-0	Pyrene	1450		170	20

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121321-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 480-367823/2-A

Matrix: Solid | Lab File ID: U326587.D

Analysis Method: 8270D | Date Collected:

Extract. Method: 3550C | Date Extracted: 07/20/2017 07:46

Sample wt/vol: 30.68(g) | Date Analyzed: 07/25/2017 22:24

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.: 368598 | Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol	107		54-120
321-60-8	2-Fluorobiphenyl	84		60-120
367-12-4	2-Fluorophenol	68		52-120
4165-60-0	Nitrobenzene-d5	81		53-120
1718-51-0	p-Terphenyl-d14	87		65-121
4165-62-2	Phenol-d5	64		54-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20170725-64313.b\U326587.D
Lims ID: LCS 480-367823/2-A
Client ID:
Sample Type: LCS
Inject. Date: 25-Jul-2017 22:24:30 ALS Bottle#: 21 Worklist Smp#: 21
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 480-0064313-021
Operator ID: DR Instrument ID: HP5973U

Method: \\ChromNA\Buffalo\ChromData\HP5973U\20170725-64313.b\U-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 26-Jul-2017 10:58:16 Calib Date: 21-Jul-2017 22:04:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973U\20170721-64235.b\U326545.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK022

First Level Reviewer: richardsd Date: 26-Jul-2017 10:57:43

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.840	6.840	0.000	92	160987	40.0	40.0	
* 2 Naphthalene-d8	136	8.357	8.357	0.000	99	543889	40.0	40.0	
* 3 Acenaphthene-d10	164	10.414	10.414	0.000	96	232038	40.0	40.0	
* 4 Phenanthrene-d10	188	11.920	11.920	0.000	95	389970	40.0	40.0	
* 5 Chrysene-d12	240	14.313	14.314	-0.001	97	419924	40.0	40.0	
* 6 Perylene-d12	264	15.873	15.873	0.000	97	474643	40.0	40.0	
$ 7 2-Fluorophenol	112	5.242	5.242	0.000	90	137731	40.0	27.2	
$ 8 Phenol-d5	99	6.364	6.364	0.000	86	163925	40.0	25.7	
$ 9 Nitrobenzene-d5	82	7.486	7.486	0.000	85	121684	40.0	32.3	
$ 10 2-Fluorobiphenyl	172	9.618	9.618	0.000	99	291717	40.0	33.4	
$ 11 2,4,6-Tribromophenol	330	11.236	11.236	0.000	89	54526	40.0	42.7	
$ 12 p-Terphenyl-d14	244	13.330	13.331	-0.001	98	296040	40.0	34.9	
23 1,4-Dioxane	88	2.812	2.806	0.006	94	47700	50.0	19.0	
24 N-Nitrosodimethylamine	42	3.276	3.282	-0.006	92	69851	50.0	25.3	
25 Pyridine	52	3.378	3.378	0.000	98	195101	100.0	38.4	
32 Benzaldehyde	77	6.305	6.311	-0.006	95	228406	100.0	61.6	
33 Phenol	94	6.380	6.380	0.000	96	204135	50.0	31.8	
34 Aniline	93	6.434	6.434	0.000	98	221792	50.0	26.8	
35 Bis(2-chloroethyl)ether	93	6.487	6.487	0.000	98	167290	50.0	31.1	
37 2-Chlorophenol	128	6.594	6.594	0.000	94	185172	50.0	34.7	
38 n-Decane	57	6.631	6.631	0.000	88	155324	50.0	22.6	
39 1,3-Dichlorobenzene	146	6.781	6.781	0.000	98	201172	50.0	32.8	
40 1,4-Dichlorobenzene	146	6.861	6.861	0.000	95	205897	50.0	32.8	
41 Benzyl alcohol	108	6.979	6.979	0.000	97	107864	50.0	32.0	
42 1,2-Dichlorobenzene	146	7.048	7.053	-0.005	99	195992	50.0	33.6	
43 2-Methylphenol	108	7.101	7.102	-0.001	93	161954	50.0	34.1	
44 2,2'-oxybis[1-chloropropan	45	7.133	7.139	-0.006	95	194175	50.0	24.0	
45 Indene	115	7.155	7.155	0.000	89	1183559	200.0	126.8	
46 4-Methylphenol	108	7.278	7.278	0.000	98	165725	50.0	33.6	
47 N-Nitrosodi-n-propylamine	70	7.288	7.289	-0.001	83	113117	50.0	30.0	
49 Acetophenone	105	7.299	7.299	0.000	97	229597	50.0	31.8	
53 Hexachloroethane	117	7.459	7.460	-0.001	93	67531	50.0	31.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
54 Nitrobenzene	77	7.507	7.508	-0.001	84	152855	50.0	38.7	
56 Isophorone	82	7.780	7.785	-0.005	98	293340	50.0	34.6	
59 2-Nitrophenol	139	7.892	7.892	0.000	85	88846	50.0	49.7	
60 2,4-Dimethylphenol	107	7.913	7.914	-0.001	90	163024	50.0	38.5	
62 Bis(2-chloroethoxy)methane	93	8.015	8.015	0.000	99	183021	50.0	35.5	
64 Benzoic acid	105	8.031	8.026	0.005	86	329721	200.0	158.1	
67 2,4-Dichlorophenol	162	8.175	8.175	0.000	90	146414	50.0	40.3	
68 1,2,4-Trichlorobenzene	180	8.287	8.288	-0.001	94	165975	50.0	40.0	
70 Naphthalene	128	8.384	8.384	0.000	97	508314	50.0	37.5	
72 4-Chloroaniline	127	8.421	8.421	0.000	98	191438	50.0	33.4	
73 2,6-Dichlorophenol	162	8.442	8.442	0.000	95	144029	50.0	40.1	
74 Hexachlorobutadiene	225	8.528	8.528	0.000	94	97291	50.0	41.3	
76 Caprolactam	113	8.816	8.806	0.010	85	101664	100.0	71.8	
80 4-Chloro-3-methylphenol	107	8.982	8.977	0.005	93	131650	50.0	36.6	
83 2-Methylnaphthalene	142	9.196	9.201	-0.005	92	350971	50.0	38.4	
85 1-Methylnaphthalene	142	9.318	9.319	-0.001	93	329975	50.0	38.7	
86 Hexachlorocyclopentadiene	237	9.399	9.399	0.000	94	89950	50.0	44.6	
87 1,2,4,5-Tetrachlorobenzene	216	9.404	9.404	0.000	96	164724	50.0	45.5	
89 2,4,6-Trichlorophenol	196	9.527	9.527	0.000	89	99786	50.0	44.8	
91 2,4,5-Trichlorophenol	196	9.575	9.575	0.000	95	104060	50.0	43.7	
94 1,1'-Biphenyl	154	9.741	9.741	-0.001	95	412125	50.0	42.1	
95 2-Chloronaphthalene	162	9.778	9.778	0.000	95	311127	50.0	41.7	
98 2-Nitroaniline	65	9.874	9.874	0.000	91	67648	50.0	43.7	
102 Dimethyl phthalate	163	10.066	10.067	-0.001	100	346942	50.0	42.1	
103 1,3-Dinitrobenzene	168	10.104	10.109	-0.005	98	49596	50.0	49.9	
104 2,6-Dinitrotoluene	165	10.136	10.141	-0.005	93	76695	50.0	50.3	
105 Acenaphthylene	152	10.259	10.259	0.000	98	459532	50.0	41.3	
106 3-Nitroaniline	138	10.333	10.334	-0.001	96	76024	50.0	42.6	
108 Acenaphthene	153	10.446	10.446	0.000	92	316179	50.0	41.0	
107 2,4-Dinitrophenol	184	10.446	10.451	-0.005	63	71412	100.0	114.0	
109 4-Nitrophenol	109	10.499	10.499	0.000	80	64607	100.0	76.4	
111 2,4-Dinitrotoluene	165	10.585	10.590	-0.005	94	95663	50.0	50.1	
112 Dibenzofuran	168	10.633	10.633	0.000	96	434475	50.0	40.8	
116 2,3,4,6-Tetrachlorophenol	232	10.761	10.761	0.000	70	81533	50.0	44.5	
118 Diethyl phthalate	149	10.825	10.830	-0.005	99	331096	50.0	40.9	
119 Hexadecane	57	10.841	10.841	0.000	92	185296	50.0	32.3	
121 4-Chlorophenyl phenyl ethe	204	10.969	10.969	0.000	86	182679	50.0	43.0	
122 4-Nitroaniline	138	10.985	10.985	0.000	93	78487	50.0	38.4	
123 Fluorene	166	10.991	10.996	-0.005	94	354223	50.0	40.4	
125 4,6-Dinitro-2-methylphenol	198	11.023	11.028	-0.005	96	95070	100.0	114.1	
128 Diphenylamine	169	11.087	11.087	0.000	93	262119	42.8	41.1	
127 N-Nitrosodiphenylamine	169	11.087	11.087	0.000	61	262119	50.0	48.1	
130 Azobenzene	77	11.135	11.135	0.000	95	279642	50.0	40.2	
129 1,2-Diphenylhydrazine	77	11.135	11.135	0.000	97	279642	50.0	40.2	
137 4-Bromophenyl phenyl ether	248	11.466	11.466	0.000	59	115839	50.0	51.2	
139 Hexachlorobenzene	284	11.562	11.562	0.000	96	132841	50.0	50.0	
141 Atrazine	200	11.594	11.589	0.005	96	194142	100.0	82.5	
143 Pentachlorophenol	266	11.739	11.739	-0.001	95	109402	100.0	92.1	
144 n-Octadecane	57	11.744	11.749	-0.005	96	180833	50.0	37.4	
150 Phenanthrene	178	11.947	11.947	0.000	96	478512	50.0	44.6	
151 Anthracene	178	11.995	11.995	0.000	96	496491	50.0	44.3	
152 Carbazole	167	12.128	12.129	-0.001	97	421728	50.0	42.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
155 Di-n-butyl phthalate	149	12.390	12.396	-0.006	100	477027	50.0	42.4	
162 Fluoranthene	202	13.031	13.031	0.000	95	484549	50.0	41.5	
164 Benzidine	184	13.106	13.106	0.000	98	269151	100.0	54.5	
165 Pyrene	202	13.240	13.240	0.000	97	488472	50.0	44.4	
172 Butyl benzyl phthalate	149	13.720	13.721	-0.001	94	198955	50.0	47.7	
178 Bis(2-ethylhexyl) phthalat	149	14.196	14.201	-0.005	94	277066	50.0	47.4	
179 3,3'-Dichlorobenzidine	252	14.239	14.239	0.000	72	379415	100.0	85.9	
181 Benzo[a]anthracene	228	14.303	14.303	0.000	97	508323	50.0	43.8	
182 Chrysene	228	14.340	14.340	0.000	97	487315	50.0	43.3	
183 Di-n-octyl phthalate	149	14.789	14.789	0.000	98	469066	50.0	47.4	
185 Benzo[b]fluoranthene	252	15.403	15.403	0.000	96	610657	50.0	45.5	
187 Benzo[k]fluoranthene	252	15.430	15.435	-0.005	98	608217	50.0	42.4	
190 Benzo[a]pyrene	252	15.804	15.809	-0.005	77	574457	50.0	44.4	
193 Dibenz(a,h)anthracene	278	17.433	17.433	0.000	92	710884	50.0	50.5	
194 Indeno[1,2,3-cd]pyrene	276	17.439	17.444	-0.005	97	840689	50.0	50.3	
195 Benzo[g,h,i]perylene	276	17.925	17.925	0.000	97	732403	50.0	51.9	
S 256 3-Methylphenol	1				0		50.0	33.6	

Reagents:

MB_INTSTD_STK_00036 Amount Added: 20.00 Units: uL Run Reagent

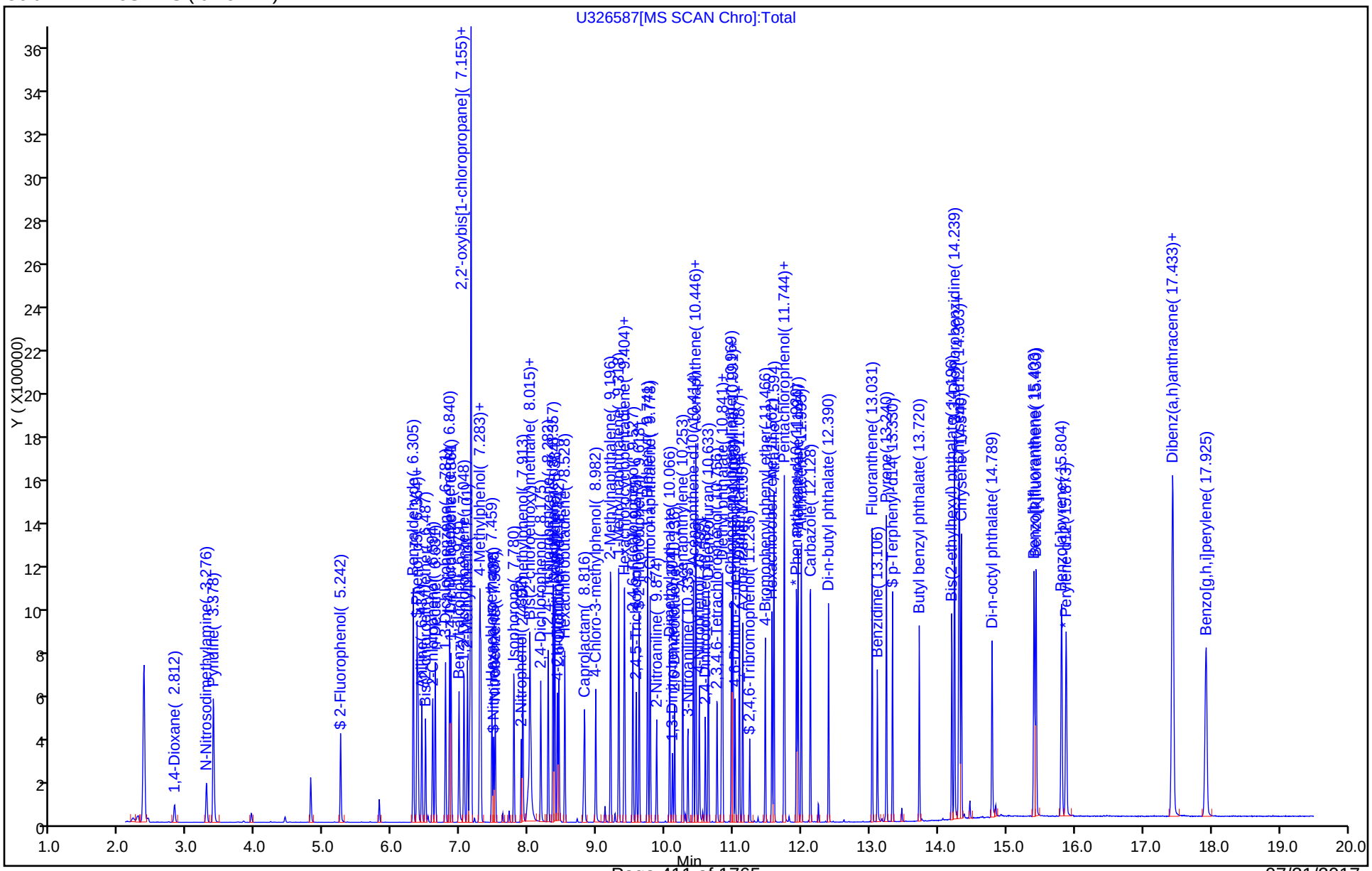
Report Date: 26-Jul-2017 10:58:21 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20170725-64313.b\U326587.D

Injection Date:	25-Jul-2017 22:24:30	Instrument ID:	HP5973U	Operator ID:	DR
Lims ID:	LCS 480-367823/2-A			Worklist Smp#:	21
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	21
Method:	U-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.: 480-121321-1

SDG No.:

Client Sample ID: TP-04 MS | Lab Sample ID: 480-121321-4 MS

Matrix: Solid | Lab File ID: U326574.D

Analysis Method: 8270D | Date Collected: 07/19/2017 13:00

Extract. Method: 3550C | Date Extracted: 07/20/2017 07:46

Sample wt/vol: 30.68(g) | Date Analyzed: 07/25/2017 16:16

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

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

% Moisture: 17.9 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 368598 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	Biphenyl	1610		200	30
108-60-1	bis (2-chloroisopropyl) ether	966		200	41
95-95-4	2,4,5-Trichlorophenol	1690		200	55
88-06-2	2,4,6-Trichlorophenol	1700		200	41
120-83-2	2,4-Dichlorophenol	1520		200	21
105-67-9	2,4-Dimethylphenol	1440		200	49
51-28-5	2,4-Dinitrophenol	4170		2000	930
121-14-2	2,4-Dinitrotoluene	1940		200	42
606-20-2	2,6-Dinitrotoluene	1920		200	24
91-58-7	2-Chloronaphthalene	1610		200	33
95-57-8	2-Chlorophenol	1340		200	37
91-57-6	2-Methylnaphthalene	1490		200	41
95-48-7	2-Methylphenol	1290		200	24
88-74-4	2-Nitroaniline	1680		390	30
88-75-5	2-Nitrophenol	1950		200	57
91-94-1	3,3'-Dichlorobenzidine	3210		390	240
99-09-2	3-Nitroaniline	1610		390	56
534-52-1	4,6-Dinitro-2-methylphenol	4340		390	200
101-55-3	4-Bromophenyl phenyl ether	1930		200	29
59-50-7	4-Chloro-3-methylphenol	1370		200	50
106-47-8	4-Chloroaniline	1250		200	50
7005-72-3	4-Chlorophenyl phenyl ether	1630		200	25
106-44-5	4-Methylphenol	1270		390	24
100-01-6	4-Nitroaniline	1410		390	110
100-02-7	4-Nitrophenol	2920		390	140
83-32-9	Acenaphthene	1600		200	30
208-96-8	Acenaphthylene	1580		200	26
98-86-2	Acetophenone	1230		200	27
120-12-7	Anthracene	1680		200	50
1912-24-9	Atrazine	3020		200	70
100-52-7	Benzaldehyde	2450		200	160
56-55-3	Benzo(a)anthracene	1660		200	20
50-32-8	Benzo(a)pyrene	1700		200	30
205-99-2	Benzo(b)fluoranthene	1790		200	32

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121321-1

SDG No.:

Client Sample ID: TP-04 MS | Lab Sample ID: 480-121321-4 MS

Matrix: Solid | Lab File ID: U326574.D

Analysis Method: 8270D | Date Collected: 07/19/2017 13:00

Extract. Method: 3550C | Date Extracted: 07/20/2017 07:46

Sample wt/vol: 30.68(g) | Date Analyzed: 07/25/2017 16:16

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

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

% Moisture: 17.9 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 368598 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
191-24-2	Benzo(g,h,i)perylene	1770		200	21
207-08-9	Benzo(k)fluoranthene	1690		200	26
111-91-1	Bis(2-chloroethoxy)methane	1390		200	43
111-44-4	Bis(2-chloroethyl)ether	1240		200	26
117-81-7	Bis(2-ethylhexyl) phthalate	1760		200	69
85-68-7	Butyl benzyl phthalate	1800		200	33
105-60-2	Caprolactam	2670		200	61
86-74-8	Carbazole	1600		200	24
218-01-9	Chrysene	1660		200	45
84-74-2	Di-n-butyl phthalate	1610		200	35
117-84-0	Di-n-octyl phthalate	1730		200	24
53-70-3	Dibenz(a,h)anthracene	1750		200	36
132-64-9	Dibenzofuran	1570		200	24
84-66-2	Diethyl phthalate	1520		200	26
131-11-3	Dimethyl phthalate	1570		200	24
206-44-0	Fluoranthene	1600		200	21
86-73-7	Fluorene	1550		200	24
118-74-1	Hexachlorobenzene	1890		200	27
87-68-3	Hexachlorobutadiene	1590		200	30
77-47-4	Hexachlorocyclopentadiene	2000		200	27
67-72-1	Hexachloroethane	1230		200	26
193-39-5	Indeno(1,2,3-cd)pyrene	1740		200	25
78-59-1	Isophorone	1320		200	43
621-64-7	N-Nitrosodi-n-propylamine	1150		200	35
86-30-6	N-Nitrosodiphenylamine	1800		200	160
91-20-3	Naphthalene	1450		200	26
98-95-3	Nitrobenzene	1550		200	23
87-86-5	Pentachlorophenol	3550		390	200
85-01-8	Phenanthrene	1720		200	30
108-95-2	Phenol	1230		200	31
129-00-0	Pyrene	1760		200	24

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121321-1

SDG No.:

Client Sample ID: TP-04 MS | Lab Sample ID: 480-121321-4 MS

Matrix: Solid | Lab File ID: U326574.D

Analysis Method: 8270D | Date Collected: 07/19/2017 13:00

Extract. Method: 3550C | Date Extracted: 07/20/2017 07:46

Sample wt/vol: 30.68(g) | Date Analyzed: 07/25/2017 16:16

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

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

% Moisture: 17.9 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 368598 | Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol	105		54-120
321-60-8	2-Fluorobiphenyl	83		60-120
367-12-4	2-Fluorophenol	68		52-120
4165-60-0	Nitrobenzene-d5	83		53-120
1718-51-0	p-Terphenyl-d14	90		65-121
4165-62-2	Phenol-d5	64		54-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20170725-64313.b\U326574.D
Lims ID: 480-121321-A-4-A MS
Client ID: TP-04
Sample Type: MS
Inject. Date: 25-Jul-2017 16:16:30 ALS Bottle#: 9 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 480-0064313-009
Operator ID: DR Instrument ID: HP5973U

Method: \\ChromNA\Buffalo\ChromData\HP5973U\20170725-64313.b\U-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 26-Jul-2017 10:56:34 Calib Date: 21-Jul-2017 22:04:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973U\20170721-64235.b\U326545.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK022

First Level Reviewer: richardsd Date: 25-Jul-2017 18:32:22

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	6.840	6.840	0.000	92	174259	40.0	40.0	
* 2 Naphthalene-d8	136	8.357	8.357	0.000	99	583140	40.0	40.0	
* 3 Acenaphthene-d10	164	10.414	10.414	0.000	97	248617	40.0	40.0	
* 4 Phenanthrene-d10	188	11.920	11.920	0.000	95	420790	40.0	40.0	
* 5 Chrysene-d12	240	14.313	14.314	-0.001	97	437697	40.0	40.0	
* 6 Perylene-d12	264	15.873	15.873	0.000	97	440684	40.0	40.0	
$ 7 2-Fluorophenol	112	5.242	5.242	0.000	90	149911	40.0	27.4	
$ 8 Phenol-d5	99	6.364	6.364	0.000	97	176249	40.0	25.5	
$ 9 Nitrobenzene-d5	82	7.486	7.486	0.000	85	134743	40.0	33.2	
$ 10 2-Fluorobiphenyl	172	9.618	9.618	0.000	99	312020	40.0	33.4	
$ 11 2,4,6-Tribromophenol	330	11.236	11.236	0.000	90	57710	40.0	42.0	
$ 12 p-Terphenyl-d14	244	13.331	13.331	0.000	100	319127	40.0	36.1	
23 1,4-Dioxane	88	2.812	2.806	0.006	94	52992	50.0	19.5	
24 N-Nitrosodimethylamine	42	3.282	3.282	0.000	92	78178	50.0	26.2	
25 Pyridine	52	3.383	3.378	0.005	97	216813	100.0	39.5	
32 Benzaldehyde	77	6.311	6.311	0.000	95	247817	100.0	61.7	
33 Phenol	94	6.380	6.380	0.000	96	215379	50.0	31.0	
34 Aniline	93	6.434	6.434	0.000	98	225251	50.0	25.1	
35 Bis(2-chloroethyl)ether	93	6.487	6.487	0.000	99	181400	50.0	31.2	
37 2-Chlorophenol	128	6.594	6.594	0.000	95	195733	50.0	33.9	
38 n-Decane	57	6.631	6.631	0.000	87	158178	50.0	21.3	
39 1,3-Dichlorobenzene	146	6.781	6.781	0.000	98	209164	50.0	31.5	
40 1,4-Dichlorobenzene	146	6.861	6.861	0.000	96	214148	50.0	31.5	
41 Benzyl alcohol	108	6.979	6.979	0.000	97	110415	50.0	30.3	
42 1,2-Dichlorobenzene	146	7.053	7.053	0.000	99	204138	50.0	32.3	
43 2-Methylphenol	108	7.101	7.102	-0.001	94	166597	50.0	32.4	
44 2,2'-oxybis[1-chloropropan	45	7.134	7.139	-0.005	95	212595	50.0	24.3	
45 Indene	115	7.155	7.155	0.000	89	1234191	200.0	122.2	
46 4-Methylphenol	108	7.278	7.278	0.000	96	170580	50.0	31.9	
47 N-Nitrosodi-n-propylamine	70	7.288	7.289	-0.001	83	118824	50.0	29.1	
49 Acetophenone	105	7.299	7.299	0.000	97	241579	50.0	31.0	
53 Hexachloroethane	117	7.459	7.460	-0.001	94	71074	50.0	30.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
54 Nitrobenzene	77	7.507	7.508	-0.001	84	166040	50.0	39.1	
56 Isophorone	82	7.785	7.785	0.000	98	301539	50.0	33.2	
59 2-Nitrophenol	139	7.892	7.892	0.000	85	93791	50.0	49.0	
60 2,4-Dimethylphenol	107	7.913	7.914	-0.001	90	164353	50.0	36.2	
62 Bis(2-chloroethoxy)methane	93	8.015	8.015	0.000	100	193086	50.0	34.9	
64 Benzoic acid	105	8.026	8.026	0.000	86	300078	200.0	141.0	
67 2,4-Dichlorophenol	162	8.175	8.175	0.000	90	148962	50.0	38.3	
68 1,2,4-Trichlorobenzene	180	8.287	8.288	-0.001	94	173625	50.0	39.0	
70 Naphthalene	128	8.384	8.384	0.000	97	532119	50.0	36.6	
72 4-Chloroaniline	127	8.421	8.421	0.000	98	192434	50.0	31.4	
73 2,6-Dichlorophenol	162	8.442	8.442	0.000	95	147847	50.0	38.4	
74 Hexachlorobutadiene	225	8.528	8.528	0.000	94	100951	50.0	39.9	
76 Caprolactam	113	8.816	8.806	0.010	85	101911	100.0	67.3	
80 4-Chloro-3-methylphenol	107	8.982	8.977	0.005	93	133012	50.0	34.6	
83 2-Methylnaphthalene	142	9.201	9.201	0.000	92	367195	50.0	37.5	
85 1-Methylnaphthalene	142	9.318	9.319	-0.001	92	344326	50.0	37.7	
86 Hexachlorocyclopentadiene	237	9.399	9.399	0.000	95	109811	50.0	50.3	
87 1,2,4,5-Tetrachlorobenzene	216	9.404	9.404	0.000	96	173126	50.0	44.7	
89 2,4,6-Trichlorophenol	196	9.527	9.527	0.000	89	102216	50.0	42.9	
91 2,4,5-Trichlorophenol	196	9.575	9.575	0.000	96	108271	50.0	42.5	
94 1,1'-Biphenyl	154	9.741	9.741	0.000	95	424513	50.0	40.5	
95 2-Chloronaphthalene	162	9.778	9.778	0.000	95	324339	50.0	40.6	
98 2-Nitroaniline	65	9.874	9.874	0.000	92	69790	50.0	42.3	
102 Dimethyl phthalate	163	10.066	10.067	-0.001	100	349272	50.0	39.5	
103 1,3-Dinitrobenzene	168	10.109	10.109	0.000	97	51739	50.0	48.7	
104 2,6-Dinitrotoluene	165	10.136	10.141	-0.005	94	78548	50.0	48.3	
105 Acenaphthylene	152	10.259	10.259	0.000	98	474595	50.0	39.8	
106 3-Nitroaniline	138	10.334	10.334	0.000	96	77051	50.0	40.6	
108 Acenaphthene	153	10.446	10.446	0.000	93	333477	50.0	40.3	
107 2,4-Dinitrophenol	184	10.451	10.451	0.000	62	69790	100.0	105.1	
109 4-Nitrophenol	109	10.499	10.499	0.000	81	66117	100.0	73.4	
111 2,4-Dinitrotoluene	165	10.590	10.590	0.000	94	99483	50.0	48.8	
112 Dibenzofuran	168	10.633	10.633	0.000	96	450419	50.0	39.5	
116 2,3,4,6-Tetrachlorophenol	232	10.761	10.761	0.000	70	80983	50.0	41.5	
118 Diethyl phthalate	149	10.825	10.830	-0.005	99	332402	50.0	38.3	
119 Hexadecane	57	10.841	10.841	0.000	92	200062	50.0	32.6	
121 4-Chlorophenyl phenyl ethe	204	10.969	10.969	0.000	88	187063	50.0	41.1	
122 4-Nitroaniline	138	10.985	10.985	0.000	95	76911	50.0	35.4	
123 Fluorene	166	10.991	10.996	-0.005	94	366003	50.0	38.9	
125 4,6-Dinitro-2-methylphenol	198	11.023	11.028	-0.005	95	97671	100.0	109.2	
128 Diphenylamine	169	11.087	11.087	0.000	93	265905	42.8	38.7	
127 N-Nitrosodiphenylamine	169	11.087	11.087	0.000	61	265905	50.0	45.2	
130 Azobenzene	77	11.135	11.135	0.000	95	292741	50.0	39.0	
129 1,2-Diphenylhydrazine	77	11.135	11.135	0.000	98	292741	50.0	39.0	
137 4-Bromophenyl phenyl ether	248	11.466	11.466	0.000	59	118761	50.0	48.7	
139 Hexachlorobenzene	284	11.562	11.562	0.000	96	136628	50.0	47.6	
141 Atrazine	200	11.594	11.589	0.005	96	191203	100.0	75.9	
143 Pentachlorophenol	266	11.739	11.739	0.000	95	114157	100.0	89.4	
144 n-Octadecane	57	11.749	11.749	0.000	96	194525	50.0	37.2	
150 Phenanthrene	178	11.947	11.947	0.000	96	501435	50.0	43.3	
151 Anthracene	178	11.995	11.995	0.000	96	511252	50.0	42.2	
152 Carbazole	167	12.129	12.129	0.000	97	431287	50.0	40.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
155 Di-n-butyl phthalate	149	12.390	12.396	-0.006	99	490191	50.0	40.5	
162 Fluoranthene	202	13.031	13.031	0.000	95	506576	50.0	40.2	
164 Benzidine	184	13.106	13.106	0.000	98	130458	100.0	25.3	
165 Pyrene	202	13.240	13.240	0.000	97	509367	50.0	44.4	
172 Butyl benzyl phthalate	149	13.721	13.721	-0.001	95	195762	50.0	45.2	
178 Bis(2-ethylhexyl) phthalat	149	14.196	14.201	-0.005	94	268497	50.0	44.3	
179 3,3'-Dichlorobenzidine	252	14.239	14.239	0.000	72	371841	100.0	80.8	
181 Benzo[a]anthracene	228	14.303	14.303	0.000	98	506286	50.0	41.9	
182 Chrysene	228	14.340	14.340	0.000	97	490203	50.0	41.8	
183 Di-n-octyl phthalate	149	14.789	14.789	0.000	98	446891	50.0	43.7	
185 Benzo[b]fluoranthene	252	15.403	15.403	0.000	97	561262	50.0	45.1	
187 Benzo[k]fluoranthene	252	15.435	15.435	0.000	98	565409	50.0	42.5	
190 Benzo[a]pyrene	252	15.804	15.809	-0.005	77	514994	50.0	42.9	
193 Dibenz(a,h)anthracene	278	17.428	17.433	-0.005	89	575734	50.0	44.1	
194 Indeno[1,2,3-cd]pyrene	276	17.439	17.444	-0.005	97	681075	50.0	43.9	
195 Benzo[g,h,i]perylene	276	17.920	17.925	-0.005	97	582488	50.0	44.5	
S 256 3-Methylphenol	1				0		50.0	31.9	

Reagents:

MB_INTSTD_STK_00036 Amount Added: 20.00 Units: uL Run Reagent

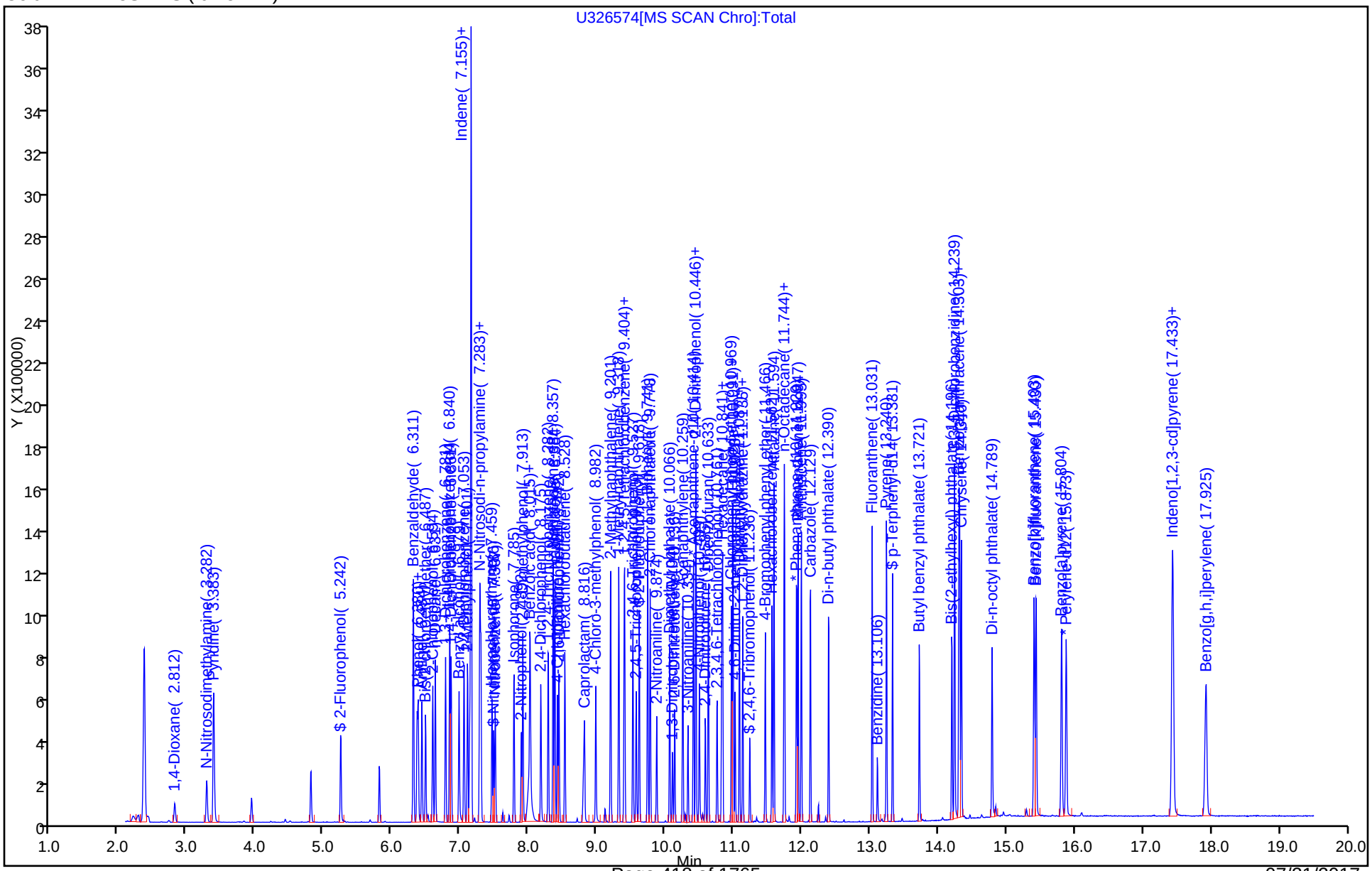
Report Date: 26-Jul-2017 10:57:54 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20170725-64313.b\U326574.D

Injection Date:	25-Jul-2017 16:16:30	Instrument ID:	HP5973U	Operator ID:	DR
Lims ID:	480-121321-A-4-A MS			Worklist Smp#:	9
Client ID:	TP-04				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	U-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.: 480-121321-1

SDG No.:

Client Sample ID: TP-04 MSD | Lab Sample ID: 480-121321-4 MSD

Matrix: Solid | Lab File ID: U326575.D

Analysis Method: 8270D | Date Collected: 07/19/2017 13:00

Extract. Method: 3550C | Date Extracted: 07/20/2017 07:46

Sample wt/vol: 30.78(g) | Date Analyzed: 07/25/2017 16:42

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

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

% Moisture: 17.9 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 368598 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	Biphenyl	1580		200	30
108-60-1	bis (2-chloroisopropyl) ether	932		200	40
95-95-4	2,4,5-Trichlorophenol	1630		200	55
88-06-2	2,4,6-Trichlorophenol	1710		200	40
120-83-2	2,4-Dichlorophenol	1540		200	21
105-67-9	2,4-Dimethylphenol	1460		200	49
51-28-5	2,4-Dinitrophenol	4110		2000	930
121-14-2	2,4-Dinitrotoluene	1950		200	42
606-20-2	2,6-Dinitrotoluene	1940		200	24
91-58-7	2-Chloronaphthalene	1580		200	33
95-57-8	2-Chlorophenol	1330		200	37
91-57-6	2-Methylnaphthalene	1440		200	40
95-48-7	2-Methylphenol	1270		200	24
88-74-4	2-Nitroaniline	1690		390	30
88-75-5	2-Nitrophenol	1970		200	57
91-94-1	3,3'-Dichlorobenzidine	3090		390	240
99-09-2	3-Nitroaniline	1600		390	56
534-52-1	4,6-Dinitro-2-methylphenol	4340		390	200
101-55-3	4-Bromophenyl phenyl ether	1920		200	28
59-50-7	4-Chloro-3-methylphenol	1380		200	50
106-47-8	4-Chloroaniline	1190		200	50
7005-72-3	4-Chlorophenyl phenyl ether	1600		200	25
106-44-5	4-Methylphenol	1290		390	24
100-01-6	4-Nitroaniline	1350		390	110
100-02-7	4-Nitrophenol	2890		390	140
83-32-9	Acenaphthene	1530		200	30
208-96-8	Acenaphthylene	1560		200	26
98-86-2	Acetophenone	1220		200	27
120-12-7	Anthracene	1640		200	50
1912-24-9	Atrazine	2870		200	70
100-52-7	Benzaldehyde	2360		200	160
56-55-3	Benzo(a)anthracene	1650		200	20
50-32-8	Benzo(a)pyrene	1670		200	30
205-99-2	Benzo(b)fluoranthene	1770		200	32

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121321-1

SDG No.:

Client Sample ID: TP-04 MSD | Lab Sample ID: 480-121321-4 MSD

Matrix: Solid | Lab File ID: U326575.D

Analysis Method: 8270D | Date Collected: 07/19/2017 13:00

Extract. Method: 3550C | Date Extracted: 07/20/2017 07:46

Sample wt/vol: 30.78(g) | Date Analyzed: 07/25/2017 16:42

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

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

% Moisture: 17.9 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 368598 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
191-24-2	Benzo(g,h,i)perylene	1800		200	21
207-08-9	Benzo(k)fluoranthene	1680		200	26
111-91-1	Bis(2-chloroethoxy)methane	1370		200	43
111-44-4	Bis(2-chloroethyl)ether	1210		200	26
117-81-7	Bis(2-ethylhexyl) phthalate	1750		200	69
85-68-7	Butyl benzyl phthalate	1890		200	33
105-60-2	Caprolactam	2650		200	61
86-74-8	Carbazole	1510		200	24
218-01-9	Chrysene	1660		200	45
84-74-2	Di-n-butyl phthalate	1570		200	34
117-84-0	Di-n-octyl phthalate	1680		200	24
53-70-3	Dibenz(a,h)anthracene	1780		200	36
132-64-9	Dibenzofuran	1530		200	24
84-66-2	Diethyl phthalate	1500		200	26
131-11-3	Dimethyl phthalate	1560		200	24
206-44-0	Fluoranthene	1510		200	21
86-73-7	Fluorene	1510		200	24
118-74-1	Hexachlorobenzene	1920		200	27
87-68-3	Hexachlorobutadiene	1500		200	30
77-47-4	Hexachlorocyclopentadiene	2000		200	27
67-72-1	Hexachloroethane	1140		200	26
193-39-5	Indeno(1,2,3-cd)pyrene	1770		200	25
78-59-1	Isophorone	1310		200	43
621-64-7	N-Nitrosodi-n-propylamine	1160		200	34
86-30-6	N-Nitrosodiphenylamine	1790		200	160
91-20-3	Naphthalene	1400		200	26
98-95-3	Nitrobenzene	1520		200	23
87-86-5	Pentachlorophenol	3520		390	200
85-01-8	Phenanthrene	1670		200	30
108-95-2	Phenol	1230		200	31
129-00-0	Pyrene	1900		200	24

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121321-1

SDG No.:

Client Sample ID: TP-04 MSD | Lab Sample ID: 480-121321-4 MSD

Matrix: Solid | Lab File ID: U326575.D

Analysis Method: 8270D | Date Collected: 07/19/2017 13:00

Extract. Method: 3550C | Date Extracted: 07/20/2017 07:46

Sample wt/vol: 30.78(g) | Date Analyzed: 07/25/2017 16:42

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

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

% Moisture: 17.9 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 368598 | Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol	106		54-120
321-60-8	2-Fluorobiphenyl	84		60-120
367-12-4	2-Fluorophenol	70		52-120
4165-60-0	Nitrobenzene-d5	86		53-120
1718-51-0	p-Terphenyl-d14	98		65-121
4165-62-2	Phenol-d5	66		54-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20170725-64313.b\U326575.D
Lims ID: 480-121321-A-4-B MSD
Client ID: TP-04
Sample Type: MSD
Inject. Date: 25-Jul-2017 16:42:30 ALS Bottle#: 10 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 480-0064313-010
Operator ID: DR Instrument ID: HP5973U

Method: \\ChromNA\Buffalo\ChromData\HP5973U\20170725-64313.b\U-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 26-Jul-2017 10:56:34 Calib Date: 21-Jul-2017 22:04:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973U\20170721-64235.b\U326545.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK022

First Level Reviewer: richardsd Date: 26-Jul-2017 10:52:20

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	6.840	6.840	0.000	92	199370	40.0	40.0	
* 2 Naphthalene-d8	136	8.357	8.357	0.000	99	679491	40.0	40.0	
* 3 Acenaphthene-d10	164	10.414	10.414	0.000	97	289623	40.0	40.0	
* 4 Phenanthrene-d10	188	11.920	11.920	0.000	95	481700	40.0	40.0	
* 5 Chrysene-d12	240	14.314	14.314	0.000	97	439035	40.0	40.0	
* 6 Perylene-d12	264	15.874	15.873	0.001	97	416970	40.0	40.0	
$ 7 2-Fluorophenol	112	5.242	5.242	0.000	91	175405	40.0	28.0	
$ 8 Phenol-d5	99	6.364	6.364	0.000	97	208420	40.0	26.4	
$ 9 Nitrobenzene-d5	82	7.486	7.486	0.000	85	162133	40.0	34.2	
$ 10 2-Fluorobiphenyl	172	9.618	9.618	0.000	99	367889	40.0	33.8	
$ 11 2,4,6-Tribromophenol	330	11.236	11.236	0.000	90	67122	40.0	42.6	
$ 12 p-Terphenyl-d14	244	13.331	13.331	0.000	100	347592	40.0	39.2	
23 1,4-Dioxane	88	2.817	2.806	0.011	94	60220	50.0	19.4	
24 N-Nitrosodimethylamine	42	3.282	3.282	0.000	92	88587	50.0	25.9	
25 Pyridine	52	3.383	3.378	0.005	97	244128	100.0	38.8	
32 Benzaldehyde	77	6.311	6.311	0.000	95	274281	100.0	59.7	
33 Phenol	94	6.380	6.380	0.000	96	246604	50.0	31.0	
34 Aniline	93	6.434	6.434	0.000	98	250934	50.0	24.5	
35 Bis(2-chloroethyl)ether	93	6.487	6.487	0.000	98	203083	50.0	30.5	
37 2-Chlorophenol	128	6.594	6.594	0.000	95	222266	50.0	33.6	
38 n-Decane	57	6.631	6.631	0.000	87	162810	50.0	19.1	
39 1,3-Dichlorobenzene	146	6.781	6.781	0.000	98	225263	50.0	29.7	
40 1,4-Dichlorobenzene	146	6.861	6.861	0.000	96	231541	50.0	29.8	
41 Benzyl alcohol	108	6.979	6.979	0.000	96	129452	50.0	31.0	
42 1,2-Dichlorobenzene	146	7.053	7.053	0.000	99	223891	50.0	31.0	
43 2-Methylphenol	108	7.102	7.102	0.000	94	189326	50.0	32.2	
44 2,2'-oxybis[1-chloropropan	45	7.139	7.139	0.000	94	235569	50.0	23.6	
45 Indene	115	7.155	7.155	0.000	89	1336150	200.0	115.6	
46 4-Methylphenol	108	7.283	7.278	0.005	94	198340	50.0	32.5	
47 N-Nitrosodi-n-propylamine	70	7.289	7.289	0.000	85	136530	50.0	29.2	
49 Acetophenone	105	7.299	7.299	0.000	95	274844	50.0	30.8	
53 Hexachloroethane	117	7.460	7.460	0.000	93	75980	50.0	28.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
54 Nitrobenzene	77	7.508	7.508	0.000	84	188956	50.0	38.3	
56 Isophorone	82	7.785	7.785	0.000	98	349140	50.0	33.0	
59 2-Nitrophenol	139	7.892	7.892	0.000	85	111257	50.0	49.8	
60 2,4-Dimethylphenol	107	7.914	7.914	0.000	90	194489	50.0	36.8	
62 Bis(2-chloroethoxy)methane	93	8.015	8.015	0.000	99	222890	50.0	34.6	
64 Benzoic acid	105	8.031	8.026	0.005	87	349207	200.0	140.8	
67 2,4-Dichlorophenol	162	8.175	8.175	0.000	90	175989	50.0	38.8	
68 1,2,4-Trichlorobenzene	180	8.288	8.288	0.000	94	194678	50.0	37.5	
70 Naphthalene	128	8.384	8.384	0.000	97	600293	50.0	35.5	
72 4-Chloroaniline	127	8.421	8.421	0.000	98	215149	50.0	30.1	
73 2,6-Dichlorophenol	162	8.442	8.442	0.000	97	172024	50.0	38.4	
74 Hexachlorobutadiene	225	8.528	8.528	0.000	94	111596	50.0	37.9	
76 Caprolactam	113	8.822	8.806	0.016	85	118063	100.0	66.9	
80 4-Chloro-3-methylphenol	107	8.982	8.977	0.005	93	156671	50.0	35.0	
83 2-Methylnaphthalene	142	9.201	9.201	0.000	92	414608	50.0	36.3	
85 1-Methylnaphthalene	142	9.319	9.319	0.000	93	391541	50.0	36.8	
86 Hexachlorocyclopentadiene	237	9.399	9.399	0.000	94	128601	50.0	50.5	
87 1,2,4,5-Tetrachlorobenzene	216	9.404	9.404	0.000	96	195637	50.0	43.3	
89 2,4,6-Trichlorophenol	196	9.527	9.527	0.000	89	119843	50.0	43.2	
91 2,4,5-Trichlorophenol	196	9.575	9.575	0.000	96	122333	50.0	41.3	
94 1,1'-Biphenyl	154	9.741	9.741	0.000	95	488322	50.0	40.0	
95 2-Chloronaphthalene	162	9.778	9.778	0.000	95	370737	50.0	39.8	
98 2-Nitroaniline	65	9.874	9.874	0.000	91	82363	50.0	42.8	
102 Dimethyl phthalate	163	10.067	10.067	0.000	100	404894	50.0	39.3	
103 1,3-Dinitrobenzene	168	10.104	10.109	-0.005	98	61539	50.0	49.6	
104 2,6-Dinitrotoluene	165	10.136	10.141	-0.005	93	93208	50.0	49.1	
105 Acenaphthylene	152	10.254	10.259	-0.005	98	545697	50.0	39.3	
106 3-Nitroaniline	138	10.334	10.334	0.000	96	89180	50.0	40.3	
108 Acenaphthene	153	10.446	10.446	0.000	93	372025	50.0	38.6	
107 2,4-Dinitrophenol	184	10.451	10.451	0.000	62	80224	100.0	103.9	
109 4-Nitrophenol	109	10.499	10.499	0.000	80	76503	100.0	73.0	
111 2,4-Dinitrotoluene	165	10.585	10.590	-0.005	94	116993	50.0	49.2	
112 Dibenzofuran	168	10.633	10.633	0.000	97	512815	50.0	38.6	
116 2,3,4,6-Tetrachlorophenol	232	10.761	10.761	0.000	70	99016	50.0	43.4	
118 Diethyl phthalate	149	10.825	10.830	-0.005	99	382440	50.0	37.9	
119 Hexadecane	57	10.841	10.841	0.000	92	231910	50.0	32.4	
121 4-Chlorophenyl phenyl ethe	204	10.969	10.969	0.000	87	215032	50.0	40.5	
122 4-Nitroaniline	138	10.985	10.985	0.000	94	86021	50.0	34.2	
123 Fluorene	166	10.991	10.996	-0.005	93	417443	50.0	38.1	
125 4,6-Dinitro-2-methylphenol	198	11.023	11.028	-0.005	95	112154	100.0	109.5	
128 Diphenylamine	169	11.087	11.087	0.000	93	305096	42.8	38.8	
127 N-Nitrosodiphenylamine	169	11.087	11.087	0.000	61	305096	50.0	45.3	
130 Azobenzene	77	11.135	11.135	0.000	95	335539	50.0	39.1	
129 1,2-Diphenylhydrazine	77	11.135	11.135	0.000	98	335539	50.0	39.1	
137 4-Bromophenyl phenyl ether	248	11.466	11.466	0.000	59	135621	50.0	48.6	
139 Hexachlorobenzene	284	11.562	11.562	0.000	96	159284	50.0	48.5	
141 Atrazine	200	11.594	11.589	0.005	96	212819	100.0	72.6	
143 Pentachlorophenol	266	11.739	11.739	0.000	94	129787	100.0	88.9	
144 n-Octadecane	57	11.744	11.749	-0.005	96	222401	50.0	37.2	
150 Phenanthrene	178	11.947	11.947	0.000	96	560030	50.0	42.2	
151 Anthracene	178	11.995	11.995	0.000	96	573904	50.0	41.4	
152 Carbazole	167	12.129	12.129	0.000	97	467831	50.0	38.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
155 Di-n-butyl phthalate	149	12.390	12.396	-0.006	100	549860	50.0	39.7	
162 Fluoranthene	202	13.031	13.031	0.000	95	549482	50.0	38.1	
164 Benzidine	184	13.106	13.106	0.000	98	124010	100.0	24.0	
165 Pyrene	202	13.240	13.240	0.000	97	551545	50.0	47.9	
172 Butyl benzyl phthalate	149	13.721	13.721	0.000	95	208899	50.0	47.9	
178 Bis(2-ethylhexyl) phthalat	149	14.201	14.201	0.000	94	268493	50.0	44.2	
179 3,3'-Dichlorobenzidine	252	14.239	14.239	0.000	72	360170	100.0	78.1	
181 Benzo[a]anthracene	228	14.303	14.303	0.000	97	504315	50.0	41.6	
182 Chrysene	228	14.340	14.340	0.000	96	494455	50.0	42.0	
183 Di-n-octyl phthalate	149	14.789	14.789	0.000	98	435554	50.0	42.5	
185 Benzo[b]fluoranthene	252	15.403	15.403	0.000	97	526519	50.0	44.7	
187 Benzo[k]fluoranthene	252	15.435	15.435	0.000	98	535756	50.0	42.5	
190 Benzo[a]pyrene	252	15.804	15.809	-0.005	77	478849	50.0	42.1	
193 Dibenz(a,h)anthracene	278	17.428	17.433	-0.005	89	554961	50.0	44.9	
194 Indeno[1,2,3-cd]pyrene	276	17.439	17.444	-0.005	97	655691	50.0	44.7	
195 Benzo[g,h,i]perylene	276	17.925	17.925	0.000	97	562341	50.0	45.4	
S 256 3-Methylphenol	1				0		50.0	32.5	

Reagents:

MB_INTSTD_STK_00036 Amount Added: 20.00 Units: uL Run Reagent

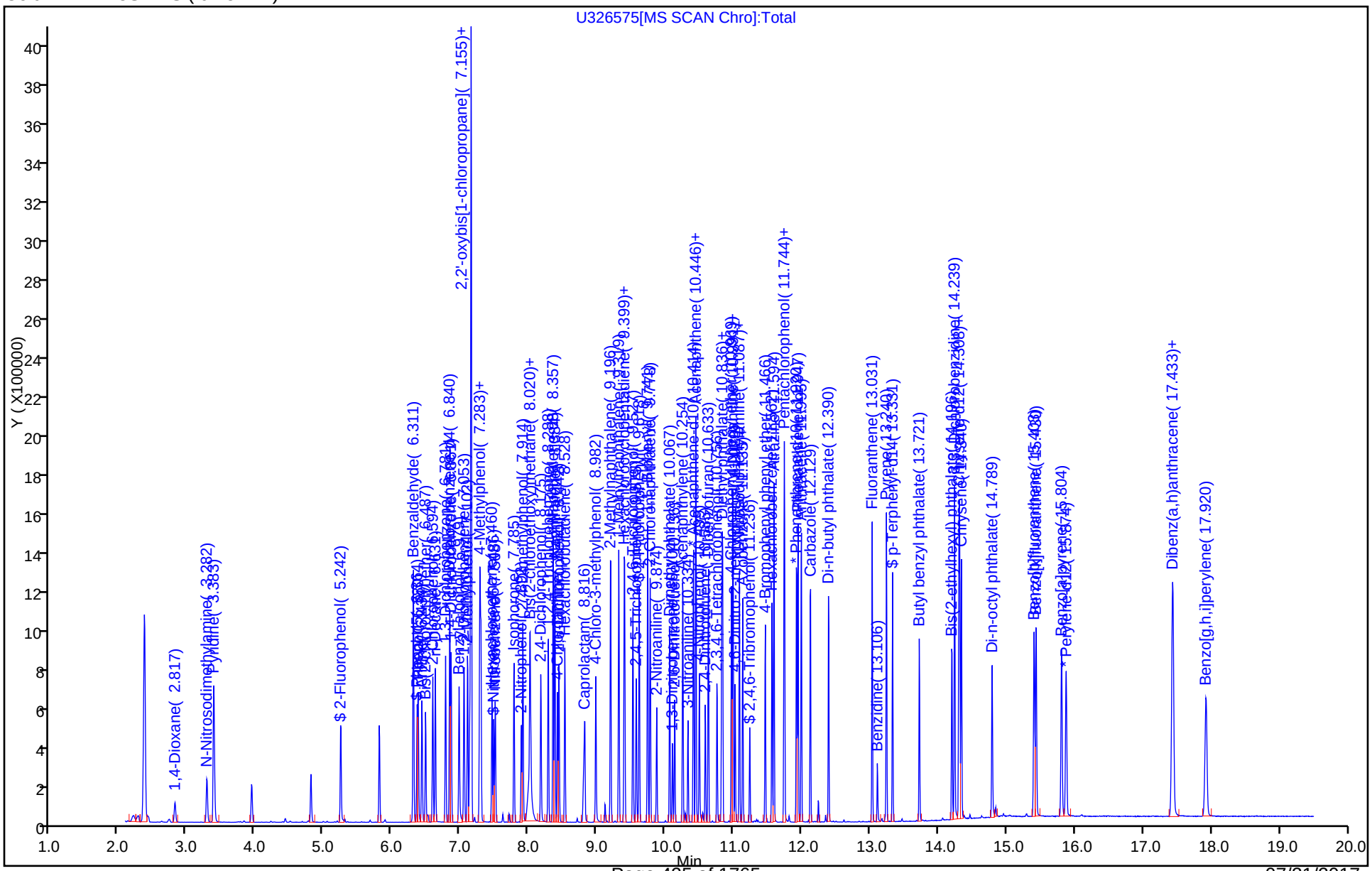
Report Date: 26-Jul-2017 10:57:56 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20170725-64313.b\U326575.D

Injection Date:	25-Jul-2017 16:42:30	Instrument ID:	HP5973U	Operator ID:	DR
Lims ID:	480-121321-A-4-B MSD			Worklist Smp#:	10
Client ID:	TP-04				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	U-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.: 480-121321-1

SDG No.:

Instrument ID: HP5973U Start Date: 07/21/2017 11:37

Analysis Batch Number: 368115 End Date: 07/21/2017 22:04

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 480-368115/2		07/21/2017 11:37	1	U326522.D	RXI-5Sil MS(0.5 0.25(mm)
IC 480-368115/3		07/21/2017 12:19	1	U326523.D	RXI-5Sil MS(0.5 0.25(mm)
IC 480-368115/4		07/21/2017 12:46	1	U326524.D	RXI-5Sil MS(0.5 0.25(mm)
ICIS 480-368115/5		07/21/2017 13:12	1	U326525.D	RXI-5Sil MS(0.5 0.25(mm)
IC 480-368115/6		07/21/2017 13:39	1	U326526.D	RXI-5Sil MS(0.5 0.25(mm)
IC 480-368115/7		07/21/2017 14:05	1	U326527.D	RXI-5Sil MS(0.5 0.25(mm)
IC 480-368115/8		07/21/2017 14:32	1	U326528.D	RXI-5Sil MS(0.5 0.25(mm)
ICV 480-368115/9		07/21/2017 14:59	1		RXI-5Sil MS(0.5 0.25(mm)
IC 480-368115/10		07/21/2017 15:25	1		RXI-5Sil MS(0.5 0.25(mm)
IC 480-368115/11		07/21/2017 15:52	1		RXI-5Sil MS(0.5 0.25(mm)
IC 480-368115/12		07/21/2017 16:18	1		RXI-5Sil MS(0.5 0.25(mm)
IC 480-368115/13		07/21/2017 16:45	1		RXI-5Sil MS(0.5 0.25(mm)
IC 480-368115/14		07/21/2017 17:11	1		RXI-5Sil MS(0.5 0.25(mm)
IC 480-368115/15		07/21/2017 17:38	1		RXI-5Sil MS(0.5 0.25(mm)
ICV 480-368115/16		07/21/2017 18:05	1		RXI-5Sil MS(0.5 0.25(mm)
IC 480-368115/17		07/21/2017 18:31	1		RXI-5Sil MS(0.5 0.25(mm)
IC 480-368115/18		07/21/2017 18:58	1		RXI-5Sil MS(0.5 0.25(mm)
IC 480-368115/19		07/21/2017 19:25	1		RXI-5Sil MS(0.5 0.25(mm)
IC 480-368115/20		07/21/2017 19:51	1		RXI-5Sil MS(0.5 0.25(mm)
IC 480-368115/21		07/21/2017 20:18	1		RXI-5Sil MS(0.5 0.25(mm)
IC 480-368115/22		07/21/2017 20:44	1		RXI-5Sil MS(0.5 0.25(mm)
IC 480-368115/23		07/21/2017 21:11	1		RXI-5Sil MS(0.5 0.25(mm)
IC 480-368115/24		07/21/2017 21:38	1		RXI-5Sil MS(0.5 0.25(mm)
IC 480-368115/25		07/21/2017 22:04	1		RXI-5Sil MS(0.5 0.25(mm)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1

SDG No.:

Instrument ID: HP5973U Start Date: 07/25/2017 13:11

Analysis Batch Number: 368598 End Date: 07/25/2017 22:24

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 480-368598/2		07/25/2017 13:11	1	U326567.D	RXI-5Sil MS(0.5 0.25(mm)
CCVIS 480-368598/3		07/25/2017 13:37	1	U326568.D	RXI-5Sil MS(0.5 0.25(mm)
RL 480-368598/4		07/25/2017 14:04	1		RXI-5Sil MS(0.5 0.25(mm)
CCV 480-368598/5		07/25/2017 14:30	1		RXI-5Sil MS(0.5 0.25(mm)
RL 480-368598/6		07/25/2017 14:56	1		RXI-5Sil MS(0.5 0.25(mm)
MB 480-367823/1-A		07/25/2017 15:23	1	U326572.D	RXI-5Sil MS(0.5 0.25(mm)
480-121321-4 MS		07/25/2017 16:16	1	U326574.D	RXI-5Sil MS(0.5 0.25(mm)
480-121321-4 MSD		07/25/2017 16:42	1	U326575.D	RXI-5Sil MS(0.5 0.25(mm)
480-121321-4		07/25/2017 17:08	1	U326576.D	RXI-5Sil MS(0.5 0.25(mm)
480-121321-1		07/25/2017 17:35	10	U326577.D	RXI-5Sil MS(0.5 0.25(mm)
480-121321-2		07/25/2017 18:01	1	U326578.D	RXI-5Sil MS(0.5 0.25(mm)
ZZZZZ		07/25/2017 19:20	10		RXI-5Sil MS(0.5 0.25(mm)
480-121321-5		07/25/2017 19:46	1	U326581.D	RXI-5Sil MS(0.5 0.25(mm)
480-121321-6		07/25/2017 20:12	1	U326582.D	RXI-5Sil MS(0.5 0.25(mm)
ZZZZZ		07/25/2017 20:39	20		RXI-5Sil MS(0.5 0.25(mm)
ZZZZZ		07/25/2017 21:05	50		RXI-5Sil MS(0.5 0.25(mm)
ZZZZZ		07/25/2017 21:31	50		RXI-5Sil MS(0.5 0.25(mm)
ZZZZZ		07/25/2017 21:58	5		RXI-5Sil MS(0.5 0.25(mm)
LCS 480-367823/2-A		07/25/2017 22:24	1	U326587.D	RXI-5Sil MS(0.5 0.25(mm)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1

SDG No.:

Instrument ID: HP5973U Start Date: 07/26/2017 12:15

Analysis Batch Number: 368788 End Date: 07/26/2017 18:55

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 480-368788/2		07/26/2017 12:15	1	U326589.D	RXI-5Sil MS(0.5 0.25(mm)
IC 480-368788/3		07/26/2017 12:43	1	U326590.D	RXI-5Sil MS(0.5 0.25(mm)
IC 480-368788/4		07/26/2017 13:10	1	U326591.D	RXI-5Sil MS(0.5 0.25(mm)
IC 480-368788/5		07/26/2017 13:36	1	U326592.D	RXI-5Sil MS(0.5 0.25(mm)
ICIS 480-368788/6		07/26/2017 14:03	1	U326593.D	RXI-5Sil MS(0.5 0.25(mm)
IC 480-368788/7		07/26/2017 14:29	1	U326594.D	RXI-5Sil MS(0.5 0.25(mm)
IC 480-368788/8		07/26/2017 14:56	1	U326595.D	RXI-5Sil MS(0.5 0.25(mm)
IC 480-368788/9		07/26/2017 15:22	1	U326596.D	RXI-5Sil MS(0.5 0.25(mm)
ICV 480-368788/10		07/26/2017 15:49	1		RXI-5Sil MS(0.5 0.25(mm)
IC 480-368788/11		07/26/2017 16:15	1		RXI-5Sil MS(0.5 0.25(mm)
IC 480-368788/12		07/26/2017 16:42	1		RXI-5Sil MS(0.5 0.25(mm)
IC 480-368788/13		07/26/2017 17:09	1		RXI-5Sil MS(0.5 0.25(mm)
IC 480-368788/14		07/26/2017 17:35	1		RXI-5Sil MS(0.5 0.25(mm)
IC 480-368788/15		07/26/2017 18:02	1		RXI-5Sil MS(0.5 0.25(mm)
IC 480-368788/16		07/26/2017 18:28	1		RXI-5Sil MS(0.5 0.25(mm)
ICV 480-368788/17		07/26/2017 18:55	1		RXI-5Sil MS(0.5 0.25(mm)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1

SDG No.:

Instrument ID: HP5973U Start Date: 07/26/2017 19:48

Analysis Batch Number: 368904 End Date: 07/27/2017 07:44

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 480-368904/2		07/26/2017 19:48	1	U326606.D	RXI-5Sil MS(0.5 0.25(mm)
CCVIS 480-368904/3		07/26/2017 20:14	1	U326607.D	RXI-5Sil MS(0.5 0.25(mm)
RL 480-368904/4		07/26/2017 20:41	1		RXI-5Sil MS(0.5 0.25(mm)
RL 480-368904/5		07/26/2017 21:07	1		RXI-5Sil MS(0.5 0.25(mm)
CCV 480-368904/6		07/26/2017 21:34	1		RXI-5Sil MS(0.5 0.25(mm)
RL 480-368904/7		07/26/2017 22:00	1		RXI-5Sil MS(0.5 0.25(mm)
ZZZZZ		07/26/2017 22:27	1		RXI-5Sil MS(0.5 0.25(mm)
ZZZZZ		07/26/2017 22:53	50		RXI-5Sil MS(0.5 0.25(mm)
ZZZZZ		07/26/2017 23:20	50		RXI-5Sil MS(0.5 0.25(mm)
480-121321-3		07/26/2017 23:46	10	U326615.D	RXI-5Sil MS(0.5 0.25(mm)
ZZZZZ		07/27/2017 00:13	1		RXI-5Sil MS(0.5 0.25(mm)
ZZZZZ		07/27/2017 00:39	1		RXI-5Sil MS(0.5 0.25(mm)
ZZZZZ		07/27/2017 01:06	5		RXI-5Sil MS(0.5 0.25(mm)
ZZZZZ		07/27/2017 01:32	5		RXI-5Sil MS(0.5 0.25(mm)
ZZZZZ		07/27/2017 01:59	5		RXI-5Sil MS(0.5 0.25(mm)
ZZZZZ		07/27/2017 02:25	10		RXI-5Sil MS(0.5 0.25(mm)
ZZZZZ		07/27/2017 02:52	20		RXI-5Sil MS(0.5 0.25(mm)
ZZZZZ		07/27/2017 03:18	5		RXI-5Sil MS(0.5 0.25(mm)
ZZZZZ		07/27/2017 03:45	20		RXI-5Sil MS(0.5 0.25(mm)
ZZZZZ		07/27/2017 04:11	20		RXI-5Sil MS(0.5 0.25(mm)
ZZZZZ		07/27/2017 04:38	20		RXI-5Sil MS(0.5 0.25(mm)
ZZZZZ		07/27/2017 05:05	10		RXI-5Sil MS(0.5 0.25(mm)
ZZZZZ		07/27/2017 05:31	20		RXI-5Sil MS(0.5 0.25(mm)
ZZZZZ		07/27/2017 05:58	10		RXI-5Sil MS(0.5 0.25(mm)
ZZZZZ		07/27/2017 06:24	20		RXI-5Sil MS(0.5 0.25(mm)
ZZZZZ		07/27/2017 06:51	20		RXI-5Sil MS(0.5 0.25(mm)
ZZZZZ		07/27/2017 07:17	5		RXI-5Sil MS(0.5 0.25(mm)
ZZZZZ		07/27/2017 07:44	20		RXI-5Sil MS(0.5 0.25(mm)

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1

SDG No.:

Batch Number: 367823 Batch Start Date: 07/20/17 07:46 Batch Analyst: Kelly, Breannon E

Batch Method: 3550C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	CalcMsg	InitialAmount	FinalAmount	O_8270/625LCS 00102	O_8270surr 00062	AnalysisComment
MB 480-367823/1		3550C, 8270D		CALC NOT SET TO RUN	30.24 g	1 mL		1 mL	
LCS 480-367823/2		3550C, 8270D		CALC NOT SET TO RUN	30.68 g	1 mL	1 mL	1 mL	
480-121321-A-4 MS	TP-04	3550C, 8270D	T	CALC NOT SET TO RUN	30.68 g	1 mL	1 mL	1 mL	Clay/Sand
480-121321-A-4 MSD	TP-04	3550C, 8270D	T	CALC NOT SET TO RUN	30.78 g	1 mL	1 mL	1 mL	Clay/Sand
480-121321-A-4	TP-04	3550C, 8270D	T	CALC NOT SET TO RUN	30.84 g	1 mL		1 mL	Clay/ Sand
480-121321-A-1	TP-01	3550C, 8270D	T	CALC NOT SET TO RUN	30.17 g	1 mL		1 mL	Clay/Sand
480-121321-A-2	TP-03	3550C, 8270D	T	CALC NOT SET TO RUN	30.08 g	1 mL		1 mL	Clay
480-121321-A-3	TP-18	3550C, 8270D	T	CALC NOT SET TO RUN	30.55 g	1 mL		1 mL	Clay
480-121321-A-5	TP-05	3550C, 8270D	T	CALC NOT SET TO RUN	30.52 g	1 mL		1 mL	Clay/Sand
480-121321-A-6	DUP	3550C, 8270D	T	CALC NOT SET TO RUN	30.29 g	1 mL		1 mL	Clay/Sand

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.: 480-121321-1

SDG No.:

Batch Number: 367823 Batch Start Date: 07/20/17 07:46 Batch Analyst: Kelly, Breannon E

Batch Method: 3550C Batch End Date:

Batch Notes	
Balance ID	Balance 5
Batch Comment	Filter paper lot # 9802837
Blank Soil Lot Number	3934403
Analyst ID - Concentration	BK
Na2SO4 ID	3934401
Nominal Amount Used	30 g
Prep Solvent ID	4134826/4084683
Prep Solvent Name	MeCl2/Acetone
Prep Solvent Volume Used	300 mL
Person's name who did the prep	BK
Analyst ID - Reagent Drop Witness	BK
Analyst ID - Reagent Drop	BK
Perform Calculation (0=No, 1=Yes)	0
Vial ID	1634811094

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 8081B

Organochlorine Pesticides (GC) by Method 8081B

FORM II
PESTICIDES SURROGATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1

SDG No.:

Matrix: Solid 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	#	DCBP1	#	DCBP2	#
TP-01	480-121321-1	72		59		87		102	
TP-03	480-121321-2	73		73		95		107	
TP-18	480-121321-3	207	X	108		114		127	X
TP-04	480-121321-4	73		73		95		105	
TP-05	480-121321-5	76		78		96		108	
DUP	480-121321-6	78		75		94		106	
	MB 480-368029/1-A	70		59		96		101	
	LCS 480-368029/2-A	71		57		92		100	
TP-04 MS	480-121321-4 MS	72		73		97		106	
TP-04 MSD	480-121321-4 MSD	82		77		100		112	

	QC LIMITS
TCX = Tetrachloro-m-xylene	30-124
DCBP = DCB Decachlorobiphenyl	45-120

Column to be used to flag recovery values

FORM II 8081B

FORM III
PESTICIDES LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: 25_17-184.D

Lab ID: LCS 480-368029/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
4,4'-DDD	16.3	14.0	86	56-120	
4,4'-DDE	16.3	13.0	80	44-120	
4,4'-DDT	16.3	14.0	86	38-120	
Aldrin	16.3	10.1	62	38-120	
alpha-BHC	16.3	10.1	62	39-120	
alpha-Chlordane	16.3	12.0	74	47-120	
beta-BHC	16.3	10.5	64	40-120	
delta-BHC	16.3	11.2	69	45-120	
Dieldrin	16.3	13.9	86	58-120	
Endosulfan I	16.3	9.78	60	49-120	
Endosulfan II	16.3	10.7	66	55-120	
Endosulfan sulfate	16.3	11.9	73	49-124	
Endrin	16.3	13.2	81	58-120	
Endrin aldehyde	16.3	10.9	67	37-121	
Endrin ketone	16.3	13.3	82	46-123	
gamma-BHC (Lindane)	16.3	11.0	68	50-120	
gamma-Chlordane	16.3	12.0	74	48-120	
Heptachlor	16.3	12.3	76	50-120	
Heptachlor epoxide	16.3	12.7	78	50-120	
Methoxychlor	16.3	18.0	111	58-133	

Column to be used to flag recovery and RPD values

FORM III 8081B

FORM III
PESTICIDES MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: 25_17-185.D

Lab ID: 480-121321-4 MS Client ID: TP-04 MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
4,4'-DDD	20.3	ND	19.3	95	37-126	
4,4'-DDE	20.3	0.65 J	17.8	85	34-120	
4,4'-DDT	20.3	ND	20.0	99	43-123	
Aldrin	20.3	ND	16.0	79	37-125	
alpha-BHC	20.3	ND	15.0	74	39-120	
alpha-Chlordane	20.3	ND	16.5	81	35-120	
beta-BHC	20.3	ND	15.8	78	36-120	
delta-BHC	20.3	0.51 J	16.4	78	34-120	
Dieldrin	20.3	ND	18.7	92	45-120	
Endosulfan I	20.3	ND	13.5	67	39-120	
Endosulfan II	20.3	ND	15.1	75	34-126	
Endosulfan sulfate	20.3	ND	19.5	96	27-130	
Endrin	20.3	ND	18.1	89	47-121	
Endrin aldehyde	20.3	ND	19.4	96	33-123	
Endrin ketone	20.3	ND	19.8	98	43-126	
gamma-BHC (Lindane)	20.3	ND	16.4	81	50-120	
gamma-Chlordane	20.3	ND	17.3	85	31-120	
Heptachlor	20.3	ND	17.5	86	42-120	
Heptachlor epoxide	20.3	ND	18.0	89	40-120	
Methoxychlor	20.3	ND	33.0	163	44-150	F1

Column to be used to flag recovery and RPD values

FORM III 8081B

FORM III
PESTICIDES MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: 25_17-186.D

Lab ID: 480-121321-4 MSD Client ID: TP-04 MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
4,4'-DDD	20.0	19.7	98	2	21	37-126	
4,4'-DDE	20.0	18.1	87	2	18	34-120	
4,4'-DDT	20.0	20.3	102	1	25	43-123	
Aldrin	20.0	16.3	82	2	12	37-125	
alpha-BHC	20.0	15.3	77	3	15	39-120	
alpha-Chlordane	20.0	17.2	86	4	23	35-120	
beta-BHC	20.0	16.1	80	2	19	36-120	
delta-BHC	20.0	16.9	82	3	14	34-120	
Dieldrin	20.0	19.0	95	2	12	45-120	
Endosulfan I	20.0	13.7	69	1	18	39-120	
Endosulfan II	20.0	15.3	77	1	26	34-126	
Endosulfan sulfate	20.0	19.7	99	1	35	27-130	
Endrin	20.0	18.3	91	1	20	47-121	
Endrin aldehyde	20.0	20.0	100	3	47	33-123	
Endrin ketone	20.0	19.6	98	1	37	43-126	
gamma-BHC (Lindane)	20.0	16.7	84	2	12	50-120	
gamma-Chlordane	20.0	16.8	84	3	15	31-120	
Heptachlor	20.0	17.7	89	1	22	42-120	
Heptachlor epoxide	20.0	18.2	91	1	15	40-120	
Methoxychlor	20.0	33.1	166	0	24	44-150	F1

Column to be used to flag recovery and RPD values

FORM III 8081B

FORM IV
PESTICIDES METHOD BLANK SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1

SDG No.:

Lab Sample ID: MB 480-368029/1-A

Matrix: Solid Date Extracted: 07/21/2017 06:42

Lab File ID:(1) 25_17-183.D Lab File ID:(2) 25_17-183.D

Date Analyzed:(1) 07/22/2017 11:27 Date Analyzed:(2) 07/22/2017 11:27

Instrument ID:(1) HP6890-25 Instrument ID:(2) HP6890-25

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 480-368029/2-A	07/22/2017 11:47	07/22/2017 11:47
TP-04 MS	480-121321-4 MS	07/22/2017 12:07	07/22/2017 12:07
TP-04 MSD	480-121321-4 MSD	07/22/2017 12:26	07/22/2017 12:26
TP-04	480-121321-4	07/22/2017 13:25	07/22/2017 13:25
TP-01	480-121321-1	07/22/2017 13:45	07/22/2017 13:45
TP-03	480-121321-2	07/22/2017 14:04	07/22/2017 14:04
TP-18	480-121321-3	07/22/2017 14:24	07/22/2017 14:24
TP-05	480-121321-5	07/22/2017 14:44	07/22/2017 14:44
DUP	480-121321-6	07/22/2017 15:03	07/22/2017 15:03

FORM VIII
PESTICIDES INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1

SDG No.:

Sample No.: STD3 480-367911/38 Date Analyzed: 07/20/2017 12:03

Instrument ID: HP6890-25 GC Column: RTX-CLPI ID: 0.53(mm)

Lab File ID (Standard): 25_17-163.D Heated Purge: (Y/N) N

Calibration ID: 30919

		BNB					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		14306926	1.99				
UPPER LIMIT		28613852	2.49				
LOWER LIMIT		7153463	1.49				
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCVIS 480-368232/7		13758637	1.99				

BNB = 1-Bromo-2-nitrobenzene

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

Column used to flag values outside QC limits

FORM VIII 8081B

FORM VIII
PESTICIDES INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1

SDG No.:

Sample No.: STD3 480-367911/38 Date Analyzed: 07/20/2017 12:03

Instrument ID: HP6890-25 GC Column: RTX-CLPII ID: 0.53(mm)

Lab File ID (Standard): 25_17-163.D Heated Purge: (Y/N) N

Calibration ID: 30920

		BNB					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		10246784	2.19				
UPPER LIMIT		20493568	2.69				
LOWER LIMIT		5123392	1.69				
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCVIS 480-368232/7		9103394	2.19				

BNB = 1-Bromo-2-nitrobenzene

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

Column used to flag values outside QC limits

FORM VIII 8081B

FORM VIII
PESTICIDES INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1

SDG No.:

Sample No.: CCVIS 480-368232/7 Date Analyzed: 07/22/2017 10:08

Instrument ID: HP6890-25 GC Column: RTX-CLPI ID: 0.53(mm)

Lab File ID (Standard): 25_17-179.D Heated Purge: (Y/N) N

Calibration ID: 30925

		BNB					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		13758637	1.99				
UPPER LIMIT		27517274	2.49				
LOWER LIMIT		6879319	1.49				
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCV 480-368232/9		13115906	1.99				
MB 480-368029/1-A		11892884	1.99				
LCS 480-368029/2-A		11868225	1.99				
480-121321-4 MS	TP-04 MS	12077087	1.99				
480-121321-4 MSD	TP-04 MSD	11674902	1.99				
480-121321-4	TP-04	11848050	1.99				
480-121321-1	TP-01	11927720	1.99				
480-121321-2	TP-03	11769836	1.99				
480-121321-3	TP-18	12273181	1.99				
480-121321-5	TP-05	12080026	1.99				
480-121321-6	DUP	11943281	1.99				

BNB = 1-Bromo-2-nitrobenzene

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

Column used to flag values outside QC limits

FORM VIII 8081B

FORM VIII
PESTICIDES INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1

SDG No.:

Sample No.: CCVIS 480-368232/7 Date Analyzed: 07/22/2017 10:08

Instrument ID: HP6890-25 GC Column: RTX-CLPII ID: 0.53(mm)

Lab File ID (Standard): 25_17-179.D Heated Purge: (Y/N) N

Calibration ID: 30926

		BNB					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		9103394	2.19				
UPPER LIMIT		18206788	2.69				
LOWER LIMIT		4551697	1.69				
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCV 480-368232/9		9066981	2.19				
MB 480-368029/1-A		8593172	2.19				
LCS 480-368029/2-A		8531710	2.19				
480-121321-4 MS	TP-04 MS	8423370	2.19				
480-121321-4 MSD	TP-04 MSD	8194838	2.19				
480-121321-4	TP-04	8236253	2.19				
480-121321-1	TP-01	8484745	2.20				
480-121321-2	TP-03	8242415	2.19				
480-121321-3	TP-18	8721906	2.19				
480-121321-5	TP-05	8252440	2.19				
480-121321-6	DUP	8206414	2.20				

BNB = 1-Bromo-2-nitrobenzene

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

Column used to flag values outside QC limits

FORM VIII 8081B

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1

SDG No.:

Client Sample ID: TP-01 Lab Sample ID: 480-121321-1

Instrument ID (1): HP6890-25 Instrument ID (2): HP6890-25

Date Analyzed (1): 07/22/2017 13:45 Date Analyzed (2): 07/22/2017 13:45

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	
4,4'-DDE	1		4.82	4.79	4.84	0.65		15.9
	2		5.73	5.71	5.76	0.55		
4,4'-DDT	1		5.70	5.70	5.75	1.3		2.6
	2		6.66	6.64	6.69	1.3		

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1

SDG No.:

Client Sample ID: TP-03 Lab Sample ID: 480-121321-2

Instrument ID (1): HP6890-25 Instrument ID (2): HP6890-25

Date Analyzed (1): 07/22/2017 14:04 Date Analyzed (2): 07/22/2017 14:04

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	
delta-BHC	1		3.40	3.39	3.44	0.45		20.7
	2		4.20	4.16	4.21	0.55		

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1

SDG No.:

Client Sample ID: TP-18 Lab Sample ID: 480-121321-3

Instrument ID (1): HP6890-25 Instrument ID (2): HP6890-25

Date Analyzed (1): 07/22/2017 14:24 Date Analyzed (2): 07/22/2017 14:24

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	
4,4'-DDE	1		4.81	4.79	4.84	10		12.3
	2		5.73	5.71	5.76	9.1		
4,4'-DDD	1		5.44	5.41	5.46	19		5.4
	2		6.33	6.31	6.36	20		

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1

SDG No.:

Client Sample ID: TP-04 Lab Sample ID: 480-121321-4

Instrument ID (1): HP6890-25 Instrument ID (2): HP6890-25

Date Analyzed (1): 07/22/2017 13:25 Date Analyzed (2): 07/22/2017 13:25

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	
delta-BHC	1		3.40	3.39	3.44	0.48		6.0
	2		4.20	4.16	4.21	0.51		
4,4'-DDE	1		4.82	4.79	4.84	0.67		3.4
	2		5.73	5.71	5.76	0.65		

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1

SDG No.:

Client Sample ID: TP-04 MS Lab Sample ID: 480-121321-4 MS

Instrument ID (1): HP6890-25 Instrument ID (2): HP6890-25

Date Analyzed (1): 07/22/2017 12:07 Date Analyzed (2): 07/22/2017 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	
alpha-BHC	1		2.94	2.91	2.96	13.3		11.4
	2		3.45	3.43	3.48	15.0		
gamma-BHC (Lindane)	1		3.19	3.17	3.22	15.2		7.7
	2		3.80	3.77	3.82	16.4		
beta-BHC	1		3.26	3.24	3.29	16.7		6.0
	2		3.87	3.85	3.90	15.8		
delta-BHC	1		3.42	3.39	3.44	16.1		1.3
	2		4.18	4.16	4.21	16.4		
Heptachlor	1		3.60	3.58	3.63	16.7		4.4
	2		4.26	4.24	4.29	17.5		
Aldrin	1		3.88	3.86	3.91	14.8		7.8
	2		4.61	4.59	4.64	16.0		
Heptachlor epoxide	1		4.47	4.45	4.50	17.3		3.8
	2		5.22	5.19	5.24	18.0		
gamma-Chlordane	1		4.60	4.58	4.63	15.1		13.8
	2		5.42	5.39	5.44	17.3		
alpha-Chlordane	1		4.73	4.71	4.76	14.4		13.2
	2		5.57	5.55	5.60	16.5		
4,4'-DDE	1		4.82	4.79	4.84	16.3		8.4
	2		5.73	5.71	5.76	17.8		
Endosulfan I	1		4.87	4.85	4.90	12.9		5.3
	2		5.64	5.61	5.66	13.5		
Dieldrin	1		5.12	5.10	5.15	17.8		4.8
	2		5.92	5.90	5.95	18.7		
Endrin	1		5.35	5.33	5.38	18.0		0.4
	2		6.24	6.22	6.27	18.1		
4,4'-DDD	1		5.43	5.41	5.46	17.4		9.9
	2		6.33	6.31	6.36	19.3		
Endosulfan II	1		5.58	5.56	5.61	14.3		5.7
	2		6.46	6.44	6.49	15.1		
4,4'-DDT	1		5.72	5.70	5.75	19.0		5.5
	2		6.66	6.64	6.69	20.0		
Endrin aldehyde	1		6.02	6.00	6.05	15.3		23.6
	2		6.80	6.78	6.83	19.4		
Methoxychlor	1		6.23	6.21	6.26	20.1		48.4
	2		7.35	7.33	7.38	33.0		
Endosulfan sulfate	1		6.47	6.44	6.49	25.6		26.9
	2		7.09	7.07	7.12	19.5		
Endrin ketone	1		6.75	6.73	6.78	19.5		1.4
	2		7.64	7.62	7.67	19.8		

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1

SDG No.:

Client Sample ID: TP-04 MSD Lab Sample ID: 480-121321-4 MSD

Instrument ID (1): HP6890-25 Instrument ID (2): HP6890-25

Date Analyzed (1): 07/22/2017 12:26 Date Analyzed (2): 07/22/2017 12:26

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	
alpha-BHC	1		2.94	2.91	2.96	14.0		9.0
	2		3.45	3.43	3.48	15.3		
gamma-BHC (Lindane)	1		3.19	3.17	3.22	15.6		6.8
	2		3.80	3.77	3.82	16.7		
beta-BHC	1		3.26	3.24	3.29	17.5		8.3
	2		3.87	3.85	3.90	16.1		
delta-BHC	1		3.41	3.39	3.44	16.8		0.5
	2		4.18	4.16	4.21	16.9		
Heptachlor	1		3.60	3.58	3.63	17.5		1.4
	2		4.26	4.24	4.29	17.7		
Aldrin	1		3.88	3.86	3.91	15.5		5.6
	2		4.61	4.59	4.64	16.3		
Heptachlor epoxide	1		4.47	4.45	4.50	17.9		1.9
	2		5.22	5.19	5.24	18.2		
gamma-Chlordane	1		4.60	4.58	4.63	15.6		7.8
	2		5.42	5.39	5.44	16.8		
alpha-Chlordane	1		4.73	4.71	4.76	15.0		14.0
	2		5.57	5.55	5.60	17.2		
4,4'-DDE	1		4.82	4.79	4.84	16.9		7.0
	2		5.73	5.71	5.76	18.1		
Endosulfan I	1		4.87	4.85	4.90	13.3		3.5
	2		5.64	5.61	5.66	13.7		
Dieldrin	1		5.12	5.10	5.15	18.5		2.9
	2		5.92	5.90	5.95	19.0		
Endrin	1		5.36	5.33	5.38	18.5		1.0
	2		6.24	6.22	6.27	18.3		
4,4'-DDD	1		5.43	5.41	5.46	17.9		9.4
	2		6.33	6.31	6.36	19.7		
Endosulfan II	1		5.59	5.56	5.61	14.7		3.9
	2		6.46	6.44	6.49	15.3		
4,4'-DDT	1		5.72	5.70	5.75	19.5		4.2
	2		6.66	6.64	6.69	20.3		
Endrin aldehyde	1		6.02	6.00	6.05	16.0		22.2
	2		6.81	6.78	6.83	20.0		
Methoxychlor	1		6.23	6.21	6.26	20.4		47.6
	2		7.35	7.33	7.38	33.1		
Endosulfan sulfate	1		6.47	6.44	6.49	26.1		27.9
	2		7.09	7.07	7.12	19.7		
Endrin ketone	1		6.75	6.73	6.78	19.7		0.6
	2		7.64	7.62	7.67	19.6		

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1

SDG No.:

Client Sample ID: TP-05 Lab Sample ID: 480-121321-5

Instrument ID (1): HP6890-25 Instrument ID (2): HP6890-25

Date Analyzed (1): 07/22/2017 14:44 Date Analyzed (2): 07/22/2017 14:44

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	
delta-BHC	1		3.40	3.39	3.44	0.52		2.6
	2		4.20	4.16	4.21	0.51		
4,4'-DDE	1		4.82	4.79	4.84	0.62		8.6
	2		5.73	5.71	5.76	0.56		
4,4'-DDT	1		5.70	5.70	5.75	0.93		3.4
	2		6.66	6.64	6.69	0.90		

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1

SDG No.:

Client Sample ID: DUP Lab Sample ID: 480-121321-6

Instrument ID (1): HP6890-25 Instrument ID (2): HP6890-25

Date Analyzed (1): 07/22/2017 15:03 Date Analyzed (2): 07/22/2017 15:03

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	
4,4'-DDE	1		4.81	4.79	4.84	0.48		4.2
	2		5.73	5.71	5.76	0.46		
4,4'-DDT	1		5.70	5.70	5.75	0.89		2.1
	2		6.67	6.64	6.69	0.87		

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 480-368029/2-A

Instrument ID (1): HP6890-25 Instrument ID (2): HP6890-25

Date Analyzed (1): 07/22/2017 11:47 Date Analyzed (2): 07/22/2017 11:47

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	
alpha-BHC	1		2.94	2.91	2.96	9.75		3.1
	2		3.45	3.43	3.48	10.1		
gamma-BHC (Lindane)	1		3.19	3.17	3.22	10.5		5.3
	2		3.80	3.77	3.82	11.0		
beta-BHC	1		3.26	3.24	3.29	10.7		1.9
	2		3.87	3.85	3.90	10.5		
delta-BHC	1		3.41	3.39	3.44	11.1		1.4
	2		4.18	4.16	4.21	11.2		
Heptachlor	1		3.60	3.58	3.63	12.0		2.6
	2		4.26	4.24	4.29	12.3		
Aldrin	1		3.88	3.86	3.91	9.74		3.9
	2		4.61	4.59	4.64	10.1		
Heptachlor epoxide	1		4.47	4.45	4.50	11.9		6.5
	2		5.22	5.19	5.24	12.7		
gamma-Chlordane	1		4.60	4.58	4.63	11.3		5.8
	2		5.42	5.39	5.44	12.0		
alpha-Chlordane	1		4.73	4.71	4.76	10.7		12.0
	2		5.57	5.55	5.60	12.0		
4,4'-DDE	1		4.82	4.79	4.84	12.1		6.9
	2		5.73	5.71	5.76	13.0		
Endosulfan I	1		4.87	4.85	4.90	9.55		2.4
	2		5.64	5.61	5.66	9.78		
Dieldrin	1		5.12	5.10	5.15	13.3		5.0
	2		5.92	5.90	5.95	13.9		
Endrin	1		5.35	5.33	5.38	13.3		0.5
	2		6.24	6.22	6.27	13.2		
4,4'-DDD	1		5.43	5.41	5.46	13.3		4.9
	2		6.33	6.31	6.36	14.0		
Endosulfan II	1		5.58	5.56	5.61	10.6		0.2
	2		6.46	6.44	6.49	10.7		
4,4'-DDT	1		5.72	5.70	5.75	14.1		0.4
	2		6.66	6.64	6.69	14.0		
Endrin aldehyde	1		6.02	6.00	6.05	9.12		17.8
	2		6.81	6.78	6.83	10.9		
Methoxychlor	1		6.23	6.21	6.26	14.2		24.0
	2		7.35	7.33	7.38	18.0		
Endosulfan sulfate	1		6.47	6.44	6.49	14.2		17.4
	2		7.09	7.07	7.12	11.9		
Endrin ketone	1		6.75	6.73	6.78	13.4		0.5
	2		7.64	7.62	7.67	13.3		

FORM I
PESTICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121321-1

SDG No.:

Client Sample ID: TP-01 | Lab Sample ID: 480-121321-1

Matrix: Solid | Lab File ID: 25_17-190.D

Analysis Method: 8081B | Date Collected: 07/19/2017 09:00

Extraction Method: 3550C | Date Extracted: 07/21/2017 06:42

Sample wt/vol: 30.44(g) | Date Analyzed: 07/22/2017 13:45

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RTX-CLPI ID: 0.53(mm)

% Moisture: 20.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 368232 | Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	87		45-120
877-09-8	Tetrachloro-m-xylene	72		30-124

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170722-64256.b\25_17-190.D
Lims ID: 480-121321-A-1-C
Client ID: TP-01
Sample Type: Client
Inject. Date: 22-Jul-2017 13:45:17 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#, CN10839003
Operator ID: BufTCHROM Instrument ID: HP6890-25

Method: \\ChromNA\Buffalo\ChromData\HP6890-25\20170722-64256.b\IS-8081.m
Limit Group: GC - 8081B IS ICAL
Last Update: 24-Jul-2017 07:46:32 Calib Date: 20-Jul-2017 14:40:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\25_17-171.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK016

First Level Reviewer: NearyM Date: 24-Jul-2017 06:48:42

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Flags
* 44 1-Bromo-2-nitrobenzene						
1	1.990	1.990	0.000	11927720	0.5000	
2	2.197	2.193	0.004	8484745	0.5000	
					RPD = 0.00	
$ 4 Tetrachloro-m-xylene						
1	2.520	2.517	0.003	312979	0.0144	
2	2.903	2.903	0.000	249181	0.0118	
					RPD = 19.60	
18 4,4'-DDE						
1	4.817	4.817	0.000	25628	0.001578	
2	5.730	5.733	-0.003	10431	0.001346	
					RPD = 15.90	
28 4,4'-DDT						
1	5.700	5.723	-0.023	65910	0.003277	
2	6.663	6.663	0.000	24331	0.003193	
					RPD = 2.58	
$ 34 DCB Decachlorobiphenyl						
1	7.780	7.780	0.000	427931	0.0175	
2	8.843	8.843	0.000	278241	0.0204	
					RPD = 15.37	

Reagents:

COPPER_00067 Amount Added: 1.00 Units: Packet Run Reagent
1-Br2nit 50ng_00008 Amount Added: 10.00 Units: uL Run Reagent

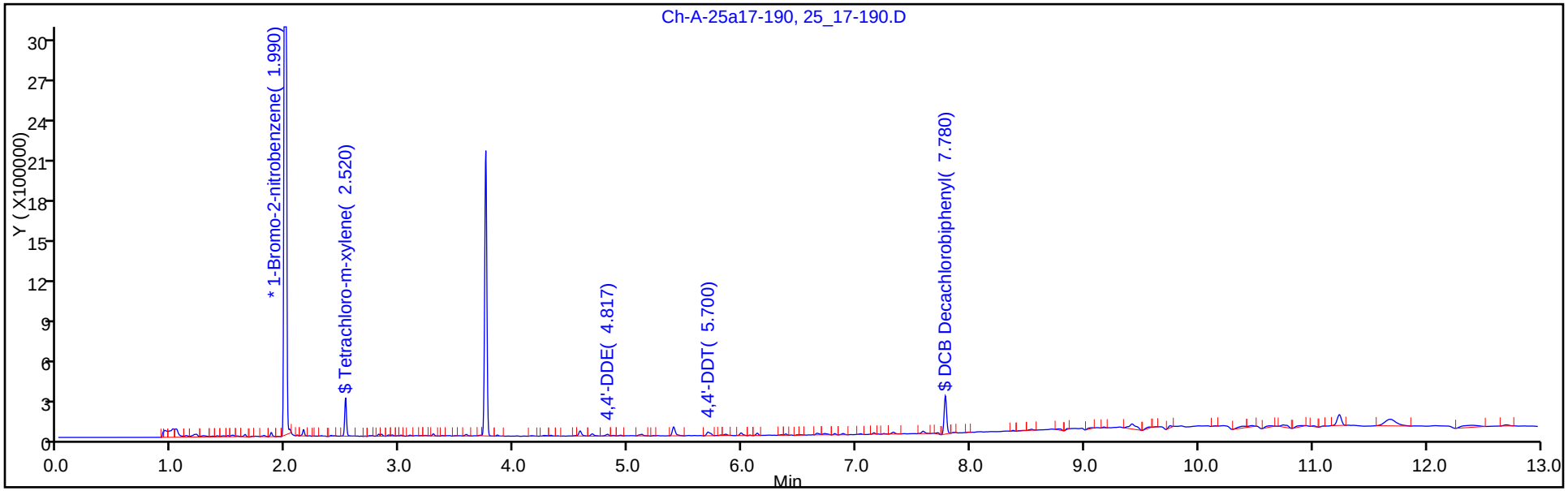
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TestAmerica Buffalo

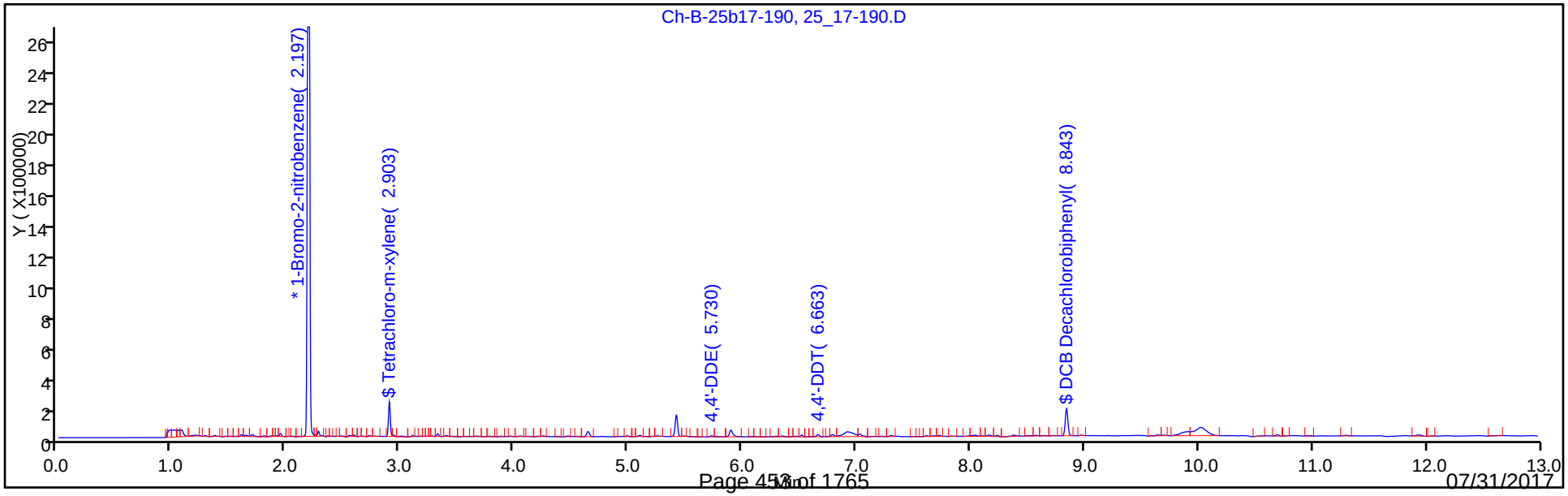
Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170722-64256.b\25_17-190.D

Injection Date:	22-Jul-2017 13:45:17	Instrument ID:	HP6890-25	Operator ID:	BufTCHROM
Lims ID:	480-121321-A-1-C	Lab Sample ID:	480-121321-1	Worklist Smp#:	18
Client ID:	TP-01				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IS-8081	Limit Group:	GC - 8081B IS ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
PESTICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121321-1

SDG No.:

Client Sample ID: TP-01 | Lab Sample ID: 480-121321-1

Matrix: Solid | Lab File ID: 25_17-190.D

Analysis Method: 8081B | Date Collected: 07/19/2017 09:00

Extraction Method: 3550C | Date Extracted: 07/21/2017 06:42

Sample wt/vol: 30.44(g) | Date Analyzed: 07/22/2017 13:45

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RTX-CLPII ID: 0.53(mm)

% Moisture: 20.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 368232 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
72-54-8	4,4'-DDD	ND		2.1	0.40
72-55-9	4,4'-DDE	0.55	J	2.1	0.43
50-29-3	4,4'-DDT	1.3	J	2.1	0.48
309-00-2	Aldrin	ND		2.1	0.51
319-84-6	alpha-BHC	ND		2.1	0.37
5103-71-9	alpha-Chlordane	ND		2.1	1.0
319-85-7	beta-BHC	ND		2.1	0.37
319-86-8	delta-BHC	ND		2.1	0.38
60-57-1	Dieldrin	ND		2.1	0.49
959-98-8	Endosulfan I	ND		2.1	0.40
33213-65-9	Endosulfan II	ND		2.1	0.37
1031-07-8	Endosulfan sulfate	ND		2.1	0.38
72-20-8	Endrin	ND		2.1	0.41
7421-93-4	Endrin aldehyde	ND		2.1	0.53
53494-70-5	Endrin ketone	ND		2.1	0.51
58-89-9	gamma-BHC (Lindane)	ND		2.1	0.38
5103-74-2	gamma-Chlordane	ND		2.1	0.65
76-44-8	Heptachlor	ND		2.1	0.45
1024-57-3	Heptachlor epoxide	ND		2.1	0.53
72-43-5	Methoxychlor	ND		2.1	0.42
8001-35-2	Toxaphene	ND		21	12

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	102		45-120
877-09-8	Tetrachloro-m-xylene	59		30-124

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170722-64256.b\25_17-190.D
Lims ID: 480-121321-A-1-C
Client ID: TP-01
Sample Type: Client
Inject. Date: 22-Jul-2017 13:45:17 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#, CN10839003
Operator ID: BufTCHROM Instrument ID: HP6890-25

Method: \\ChromNA\Buffalo\ChromData\HP6890-25\20170722-64256.b\IS-8081.m
Limit Group: GC - 8081B IS ICAL
Last Update: 24-Jul-2017 07:46:32 Calib Date: 20-Jul-2017 14:40:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\25_17-171.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK016

First Level Reviewer: NearyM Date: 24-Jul-2017 06:48:42

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Flags
* 44 1-Bromo-2-nitrobenzene						
1	1.990	1.990	0.000	11927720	0.5000	
2	2.197	2.193	0.004	8484745	0.5000	
					RPD = 0.00	
$ 4 Tetrachloro-m-xylene						
1	2.520	2.517	0.003	312979	0.0144	
2	2.903	2.903	0.000	249181	0.0118	
					RPD = 19.60	
18 4,4'-DDE						
1	4.817	4.817	0.000	25628	0.001578	
2	5.730	5.733	-0.003	10431	0.001346	
					RPD = 15.90	
28 4,4'-DDT						
1	5.700	5.723	-0.023	65910	0.003277	
2	6.663	6.663	0.000	24331	0.003193	
					RPD = 2.58	
$ 34 DCB Decachlorobiphenyl						
1	7.780	7.780	0.000	427931	0.0175	
2	8.843	8.843	0.000	278241	0.0204	
					RPD = 15.37	

Reagents:

COPPER_00067 Amount Added: 1.00 Units: Packet Run Reagent
1-Br2nit 50ng_00008 Amount Added: 10.00 Units: uL Run Reagent

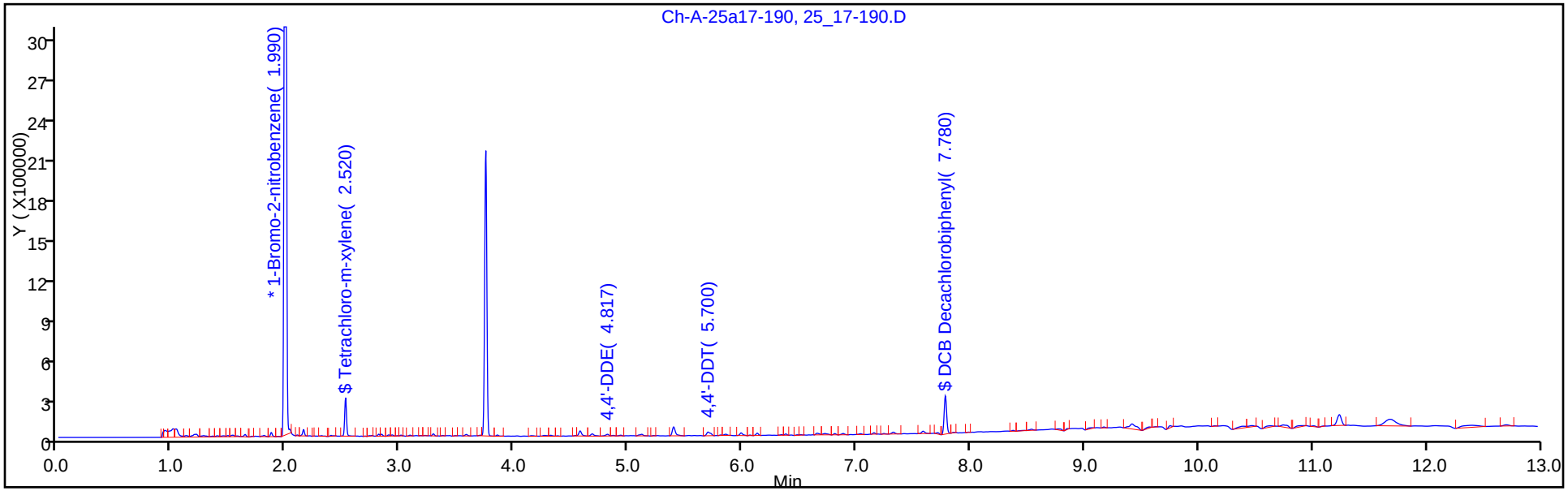
Report Date: 24-Jul-2017 07:46:45 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

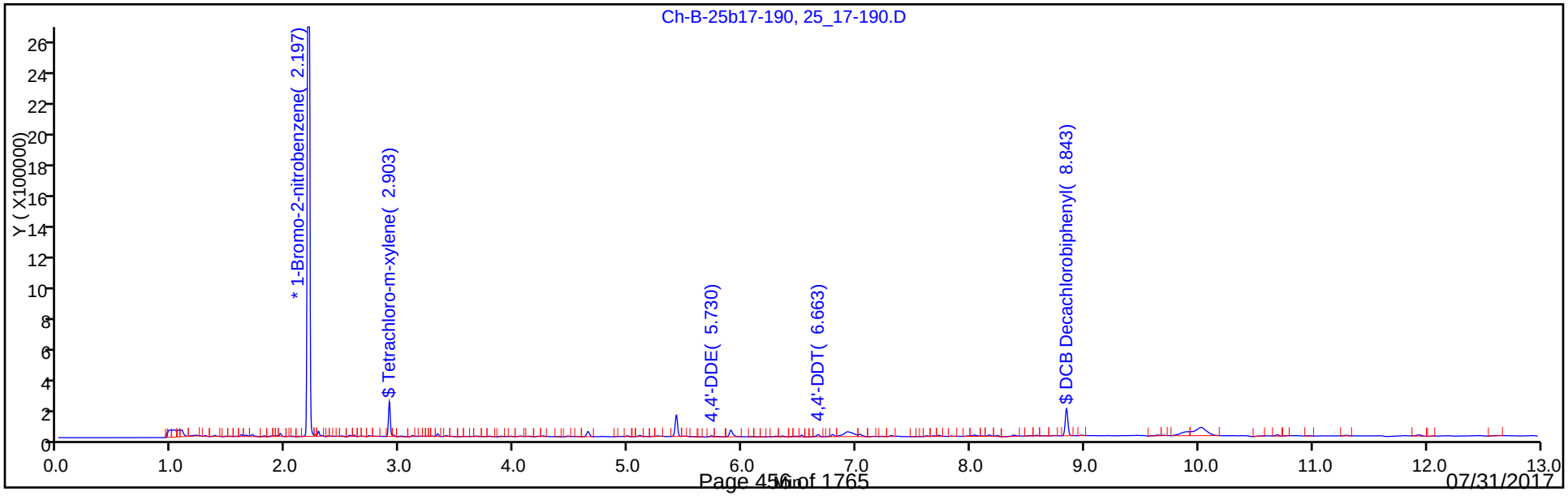
Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170722-64256.b\25_17-190.D

Injection Date:	22-Jul-2017 13:45:17	Instrument ID:	HP6890-25	Operator ID:	BufTCHROM
Lims ID:	480-121321-A-1-C	Lab Sample ID:	480-121321-1	Worklist Smp#:	18
Client ID:	TP-01				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IS-8081	Limit Group:	GC - 8081B IS ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
PESTICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121321-1

SDG No.:

Client Sample ID: TP-03 | Lab Sample ID: 480-121321-2

Matrix: Solid | Lab File ID: 25_17-191.D

Analysis Method: 8081B | Date Collected: 07/19/2017 10:00

Extraction Method: 3550C | Date Extracted: 07/21/2017 06:42

Sample wt/vol: 30.55(g) | Date Analyzed: 07/22/2017 14:04

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RTX-CLPI ID: 0.53(mm)

% Moisture: 17.4 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 368232 | Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	95		45-120
877-09-8	Tetrachloro-m-xylene	73		30-124

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170722-64256.b\25_17-191.D
Lims ID: 480-121321-A-2-C
Client ID: TP-03
Sample Type: Client
Inject. Date: 22-Jul-2017 14:04:57 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#, CN10839003
Operator ID: BufTCHROM Instrument ID: HP6890-25

Method: \\ChromNA\Buffalo\ChromData\HP6890-25\20170722-64256.b\IS-8081.m
Limit Group: GC - 8081B IS ICAL
Last Update: 24-Jul-2017 07:46:32 Calib Date: 20-Jul-2017 14:40:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\25_17-171.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK016

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Flags
* 44 1-Bromo-2-nitrobenzene						
1	1.987	1.990	-0.003	11769836	0.5000	
2	2.193	2.193	0.000	8242415	0.5000	
					RPD = 0.00	
$ 4 Tetrachloro-m-xylene						
1	2.517	2.517	0.000	314026	0.0146	
2	2.900	2.903	-0.003	298793	0.0145	
					RPD = 0.72	
9 delta-BHC						
1	3.403	3.417	-0.014	7135	0.001131	
2	4.197	4.180	0.017	8784	0.001392	
					RPD = 20.69	
$ 34 DCB Decachlorobiphenyl						
1	7.777	7.780	-0.003	460767	0.0191	
2	8.840	8.843	-0.003	284036	0.0214	
					RPD = 11.57	

Reagents:

COPPER_00067	Amount Added: 1.00	Units: Packet	Run Reagent
1-Br2nit 50ng_00008	Amount Added: 10.00	Units: uL	Run Reagent

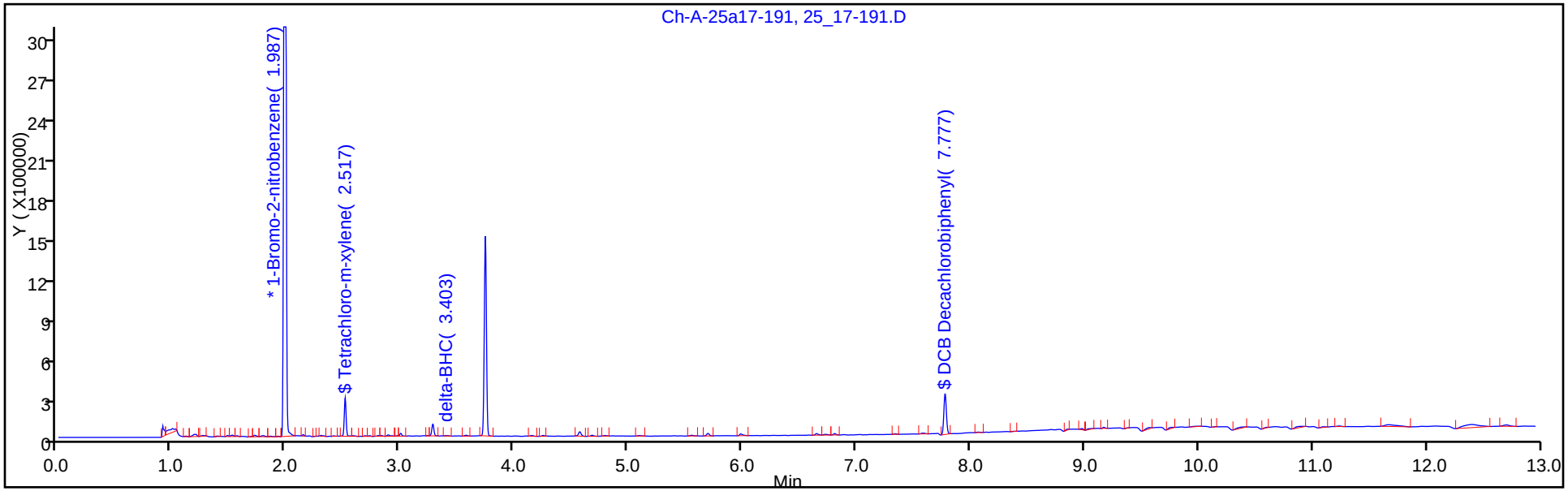
Report Date: 24-Jul-2017 07:46:46 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

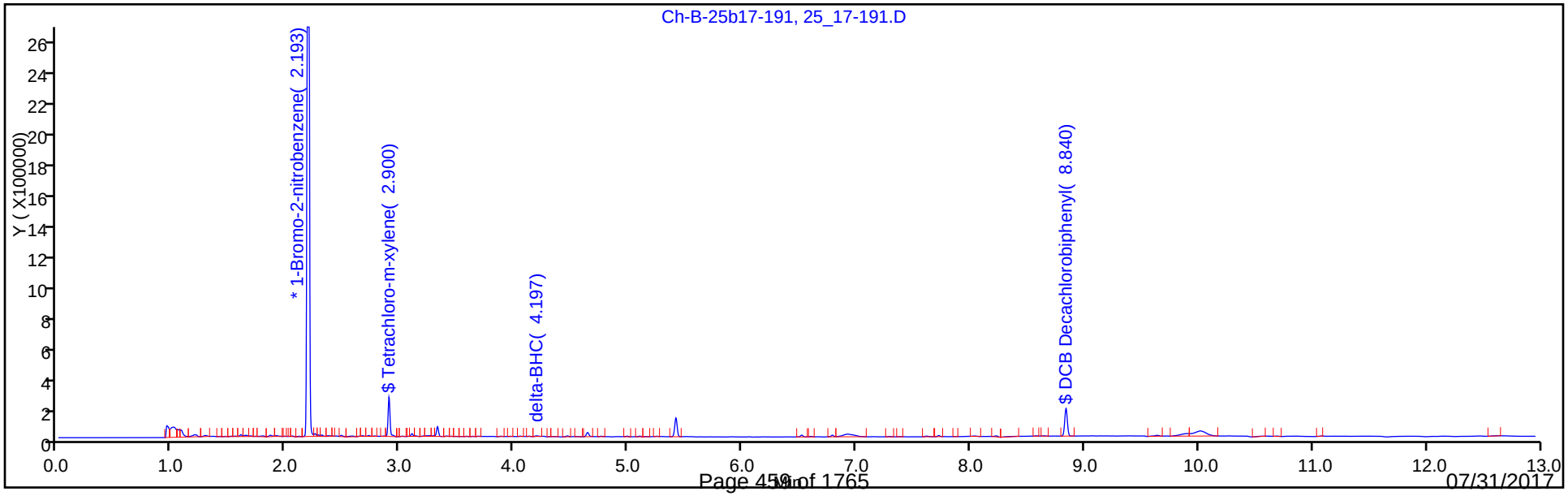
Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170722-64256.b\25_17-191.D

Injection Date:	22-Jul-2017 14:04:57	Instrument ID:	HP6890-25	Operator ID:	BufTCHROM
Lims ID:	480-121321-A-2-C	Lab Sample ID:	480-121321-2	Worklist Smp#:	19
Client ID:	TP-03				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IS-8081	Limit Group:	GC - 8081B IS ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
PESTICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121321-1

SDG No.:

Client Sample ID: TP-03 | Lab Sample ID: 480-121321-2

Matrix: Solid | Lab File ID: 25_17-191.D

Analysis Method: 8081B | Date Collected: 07/19/2017 10:00

Extraction Method: 3550C | Date Extracted: 07/21/2017 06:42

Sample wt/vol: 30.55(g) | Date Analyzed: 07/22/2017 14:04

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RTX-CLPII ID: 0.53(mm)

% Moisture: 17.4 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 368232 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
72-54-8	4,4'-DDD	ND		2.0	0.39
72-55-9	4,4'-DDE	ND		2.0	0.42
50-29-3	4,4'-DDT	ND		2.0	0.46
309-00-2	Aldrin	ND		2.0	0.49
319-84-6	alpha-BHC	ND		2.0	0.36
5103-71-9	alpha-Chlordane	ND		2.0	0.99
319-85-7	beta-BHC	ND		2.0	0.36
319-86-8	delta-BHC	0.55	J	2.0	0.37
60-57-1	Dieldrin	ND		2.0	0.48
959-98-8	Endosulfan I	ND		2.0	0.38
33213-65-9	Endosulfan II	ND		2.0	0.36
1031-07-8	Endosulfan sulfate	ND		2.0	0.37
72-20-8	Endrin	ND		2.0	0.39
7421-93-4	Endrin aldehyde	ND		2.0	0.51
53494-70-5	Endrin ketone	ND		2.0	0.49
58-89-9	gamma-BHC (Lindane)	ND		2.0	0.36
5103-74-2	gamma-Chlordane	ND		2.0	0.63
76-44-8	Heptachlor	ND		2.0	0.43
1024-57-3	Heptachlor epoxide	ND		2.0	0.51
72-43-5	Methoxychlor	ND		2.0	0.40
8001-35-2	Toxaphene	ND		20	12

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	107		45-120
877-09-8	Tetrachloro-m-xylene	73		30-124

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170722-64256.b\25_17-191.D
Lims ID: 480-121321-A-2-C
Client ID: TP-03
Sample Type: Client
Inject. Date: 22-Jul-2017 14:04:57 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#, CN10839003
Operator ID: BufTCHROM Instrument ID: HP6890-25

Method: \\ChromNA\Buffalo\ChromData\HP6890-25\20170722-64256.b\IS-8081.m
Limit Group: GC - 8081B IS ICAL
Last Update: 24-Jul-2017 07:46:32 Calib Date: 20-Jul-2017 14:40:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\25_17-171.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK016

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Flags
* 44 1-Bromo-2-nitrobenzene						
1	1.987	1.990	-0.003	11769836	0.5000	
2	2.193	2.193	0.000	8242415	0.5000	
					RPD = 0.00	
$ 4 Tetrachloro-m-xylene						
1	2.517	2.517	0.000	314026	0.0146	
2	2.900	2.903	-0.003	298793	0.0145	
					RPD = 0.72	
9 delta-BHC						
1	3.403	3.417	-0.014	7135	0.001131	
2	4.197	4.180	0.017	8784	0.001392	
					RPD = 20.69	
$ 34 DCB Decachlorobiphenyl						
1	7.777	7.780	-0.003	460767	0.0191	
2	8.840	8.843	-0.003	284036	0.0214	
					RPD = 11.57	

Reagents:

COPPER_00067	Amount Added: 1.00	Units: Packet	Run Reagent
1-Br2nit 50ng_00008	Amount Added: 10.00	Units: uL	Run Reagent

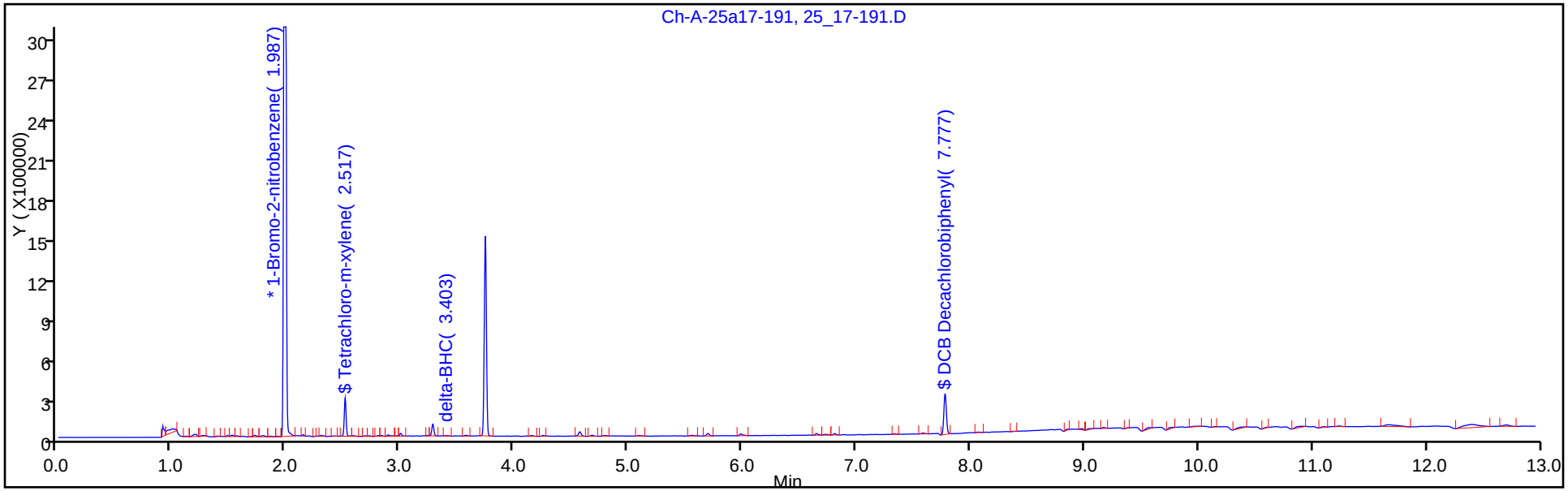
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TestAmerica Buffalo

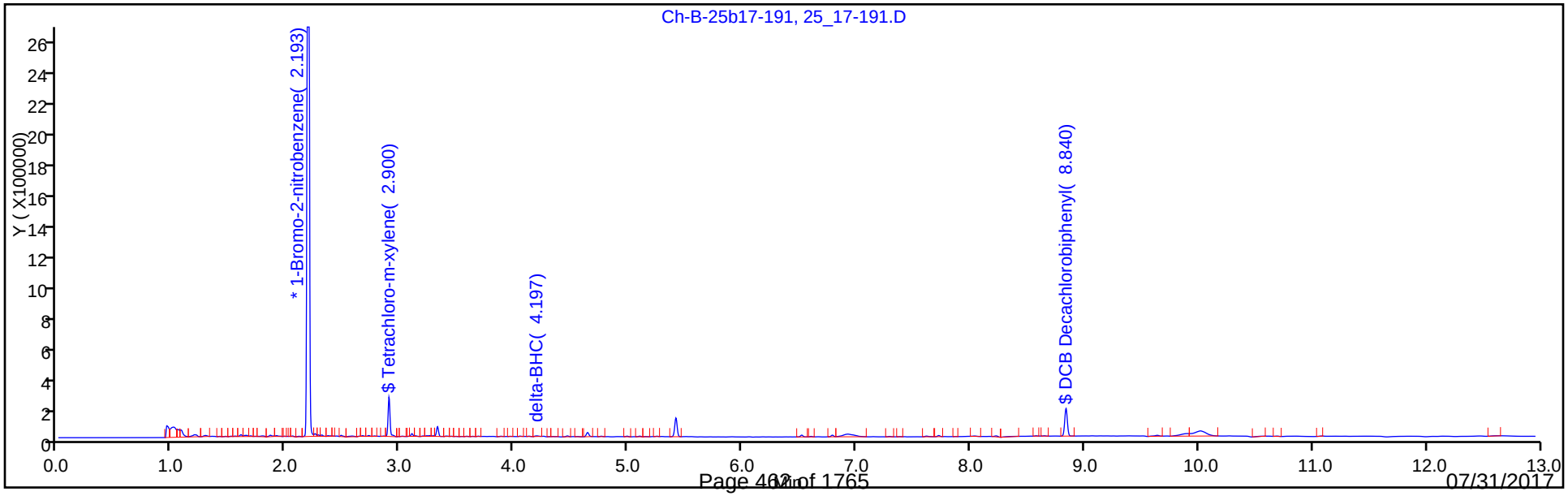
Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170722-64256.b\25_17-191.D

Injection Date:	22-Jul-2017 14:04:57	Instrument ID:	HP6890-25	Operator ID:	BufTCHROM
Lims ID:	480-121321-A-2-C	Lab Sample ID:	480-121321-2	Worklist Smp#:	19
Client ID:	TP-03				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IS-8081	Limit Group:	GC - 8081B IS ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
PESTICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121321-1

SDG No.:

Client Sample ID: TP-18 | Lab Sample ID: 480-121321-3

Matrix: Solid | Lab File ID: 25_17-192.D

Analysis Method: 8081B | Date Collected: 07/19/2017 11:00

Extraction Method: 3550C | Date Extracted: 07/21/2017 06:42

Sample wt/vol: 30.34(g) | Date Analyzed: 07/22/2017 14:24

Con. Extract Vol.: 10(mL) | Dilution Factor: 20

Injection Volume: 1(uL) | GC Column: RTX-CLPI ID: 0.53(mm)

% Moisture: 21.9 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 368232 | Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	114		45-120
877-09-8	Tetrachloro-m-xylene	207	X	30-124

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170722-64256.b\25_17-192.D
Lims ID: 480-121321-A-3-C
Client ID: TP-18
Sample Type: Client
Inject. Date: 22-Jul-2017 14:24:42 ALS Bottle#: 0 Worklist Smp#: 20
Injection Vol: 1.0 ul Dil. Factor: 20.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, CN10839003
Operator ID: BufTCHROM Instrument ID: HP6890-25

Method: \\ChromNA\Buffalo\ChromData\HP6890-25\20170722-64256.b\IS-8081.m
Limit Group: GC - 8081B IS ICAL
Last Update: 24-Jul-2017 07:46:32 Calib Date: 20-Jul-2017 14:40:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\25_17-171.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK016

First Level Reviewer: NearyM Date: 24-Jul-2017 07:32:34

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Flags
* 44 1-Bromo-2-nitrobenzene						
1	1.990	1.990	0.000	12273181	0.5000	
2	2.193	2.193	0.000	8721906	0.5000	
					RPD = 0.00	
$ 4 Tetrachloro-m-xylene						
1	2.520	2.517	0.003	24259	0.002069	
2	2.903	2.903	0.000	16323	0.001083	
					RPD = 62.51	
18 4,4'-DDE						M
1	4.813	4.817	-0.004	12829	0.001223	M
2	5.730	5.733	-0.003	4316	0.001081	
					RPD = 12.29	
24 4,4'-DDD						
1	5.437	5.433	0.004	40527	0.002266	
2	6.333	6.337	-0.004	24167	0.002392	
					RPD = 5.41	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Flags
$ 34 DCB Decachlorobiphenyl						
1	7.783	7.780	0.003	32775	0.001140	
2	8.840	8.843	-0.003	19330	0.001271	
					RPD = 10.82	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

COPPER_00067	Amount Added: 1.00	Units: Packet	Run Reagent
1-Br2nit 50ng_00008	Amount Added: 10.00	Units: uL	Run Reagent

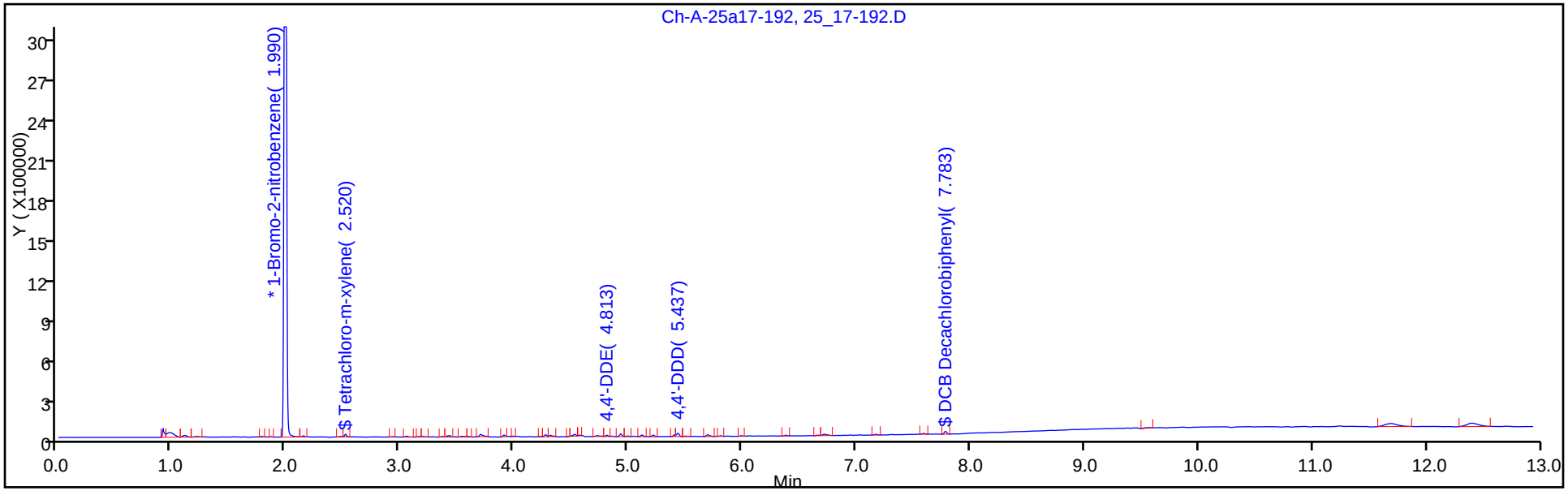
Report Date: 24-Jul-2017 07:46:47 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

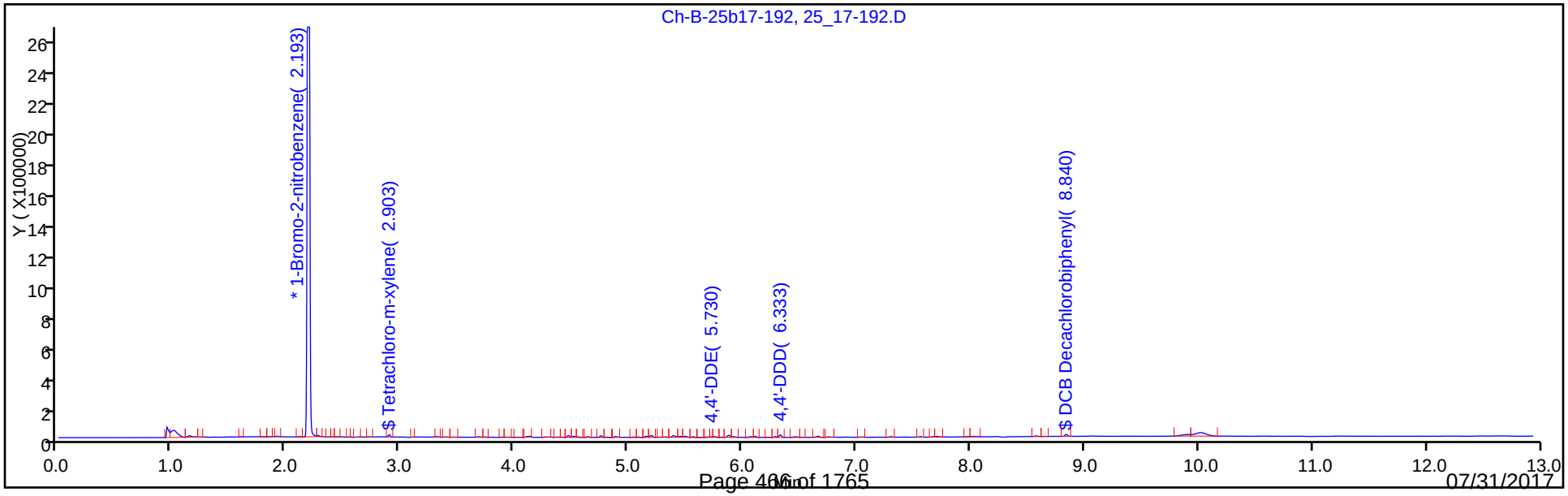
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Injection Date:	22-Jul-2017 14:24:42	Instrument ID:	HP6890-25	Operator ID:	BufTCHROM
Lims ID:	480-121321-A-3-C	Lab Sample ID:	480-121321-3	Worklist Smp#:	20
Client ID:	TP-18				
Injection Vol:	1.0 ul	Dil. Factor:	20.0000	ALS Bottle#:	0
Method:	IS-8081	Limit Group:	GC - 8081B IS 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

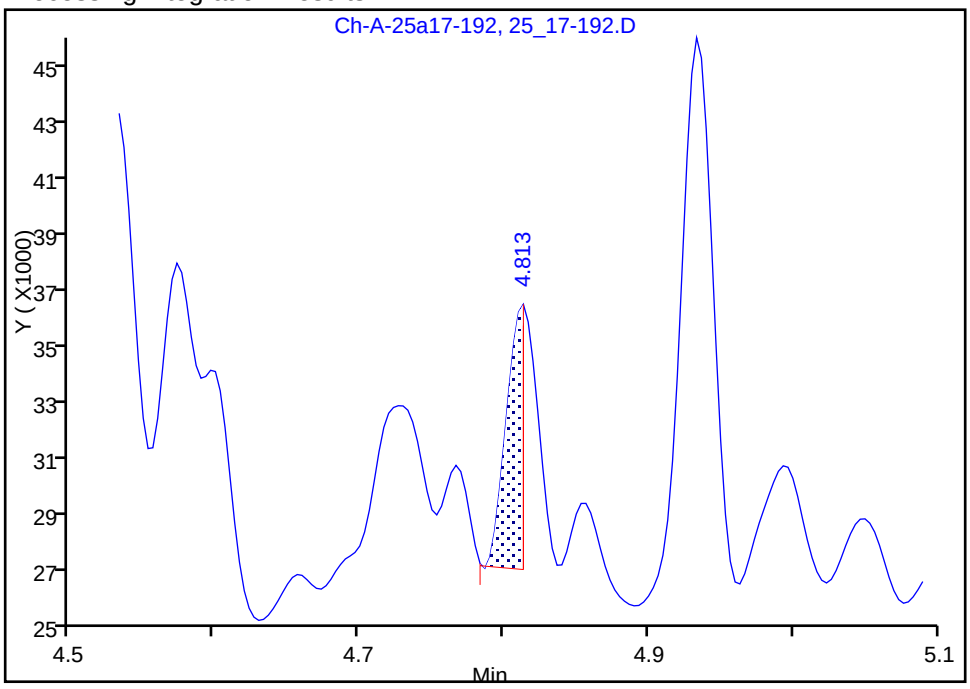
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Injection Date:	22-Jul-2017 14:24:42	Instrument ID:	HP6890-25		
Lims ID:	480-121321-A-3-C	Lab Sample ID:	480-121321-3		
Client ID:	TP-18				
Operator ID:	BufTCHROM	ALS Bottle#:	0	Worklist Smp#:	20
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	IS-8081	Limit Group:	GC - 8081B IS ICAL		
Column:		Detector	Ch-A-6A58132		

18 4,4'-DDE, CAS: 72-55-9

Signal: 1

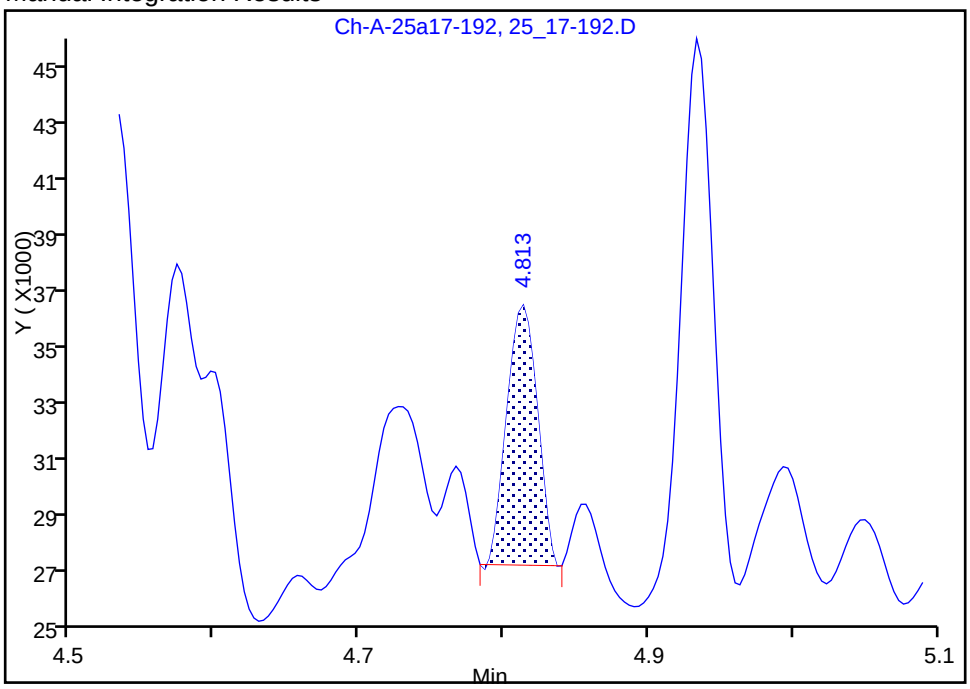
Processing Integration Results

RT: 4.81
Area: 7026
Amount: 0.001070
Amount Units: ng/ul



Manual Integration Results

RT: 4.81
Area: 12829
Amount: 0.001223
Amount Units: ng/ul



Reviewer: NearyM, 24-Jul-2017 07:32:11

Audit Action: Manually Integrated Audit Reason: Split Peak

FORM I
PESTICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121321-1

SDG No.:

Client Sample ID: TP-18 | Lab Sample ID: 480-121321-3

Matrix: Solid | Lab File ID: 25_17-192.D

Analysis Method: 8081B | Date Collected: 07/19/2017 11:00

Extraction Method: 3550C | Date Extracted: 07/21/2017 06:42

Sample wt/vol: 30.34(g) | Date Analyzed: 07/22/2017 14:24

Con. Extract Vol.: 10(mL) | Dilution Factor: 20

Injection Volume: 1(uL) | GC Column: RTX-CLPII ID: 0.53(mm)

% Moisture: 21.9 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 368232 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
72-54-8	4,4'-DDD	20	J	42	8.2
72-55-9	4,4'-DDE	9.1	J	42	8.9
50-29-3	4,4'-DDT	ND		42	9.9
309-00-2	Aldrin	ND		42	10
319-84-6	alpha-BHC	ND		42	7.6
5103-71-9	alpha-Chlordane	ND		42	21
319-85-7	beta-BHC	ND		42	7.6
319-86-8	delta-BHC	ND		42	7.9
60-57-1	Dieldrin	ND		42	10
959-98-8	Endosulfan I	ND		42	8.1
33213-65-9	Endosulfan II	ND		42	7.6
1031-07-8	Endosulfan sulfate	ND		42	7.9
72-20-8	Endrin	ND		42	8.4
7421-93-4	Endrin aldehyde	ND		42	11
53494-70-5	Endrin ketone	ND		42	10
58-89-9	gamma-BHC (Lindane)	ND		42	7.8
5103-74-2	gamma-Chlordane	ND		42	13
76-44-8	Heptachlor	ND		42	9.1
1024-57-3	Heptachlor epoxide	ND		42	11
72-43-5	Methoxychlor	ND		42	8.6
8001-35-2	Toxaphene	ND		420	250

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	127	X	45-120
877-09-8	Tetrachloro-m-xylene	108		30-124

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170722-64256.b\25_17-192.D
Lims ID: 480-121321-A-3-C
Client ID: TP-18
Sample Type: Client
Inject. Date: 22-Jul-2017 14:24:42 ALS Bottle#: 0 Worklist Smp#: 20
Injection Vol: 1.0 ul Dil. Factor: 20.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, CN10839003
Operator ID: BufTCHROM Instrument ID: HP6890-25

Method: \\ChromNA\Buffalo\ChromData\HP6890-25\20170722-64256.b\IS-8081.m
Limit Group: GC - 8081B IS ICAL
Last Update: 24-Jul-2017 07:46:32 Calib Date: 20-Jul-2017 14:40:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\25_17-171.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK016

First Level Reviewer: NearyM Date: 24-Jul-2017 07:32:34

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Flags
* 44 1-Bromo-2-nitrobenzene						
1	1.990	1.990	0.000	12273181	0.5000	
2	2.193	2.193	0.000	8721906	0.5000	
					RPD = 0.00	
$ 4 Tetrachloro-m-xylene						
1	2.520	2.517	0.003	24259	0.002069	
2	2.903	2.903	0.000	16323	0.001083	
					RPD = 62.51	
18 4,4'-DDE						M
1	4.813	4.817	-0.004	12829	0.001223	M
2	5.730	5.733	-0.003	4316	0.001081	
					RPD = 12.29	
24 4,4'-DDD						
1	5.437	5.433	0.004	40527	0.002266	
2	6.333	6.337	-0.004	24167	0.002392	
					RPD = 5.41	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Flags
$ 34 DCB Decachlorobiphenyl						
1	7.783	7.780	0.003	32775	0.001140	
2	8.840	8.843	-0.003	19330	0.001271	
					RPD = 10.82	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

COPPER_00067	Amount Added: 1.00	Units: Packet	Run Reagent
1-Br2nit 50ng_00008	Amount Added: 10.00	Units: uL	Run Reagent

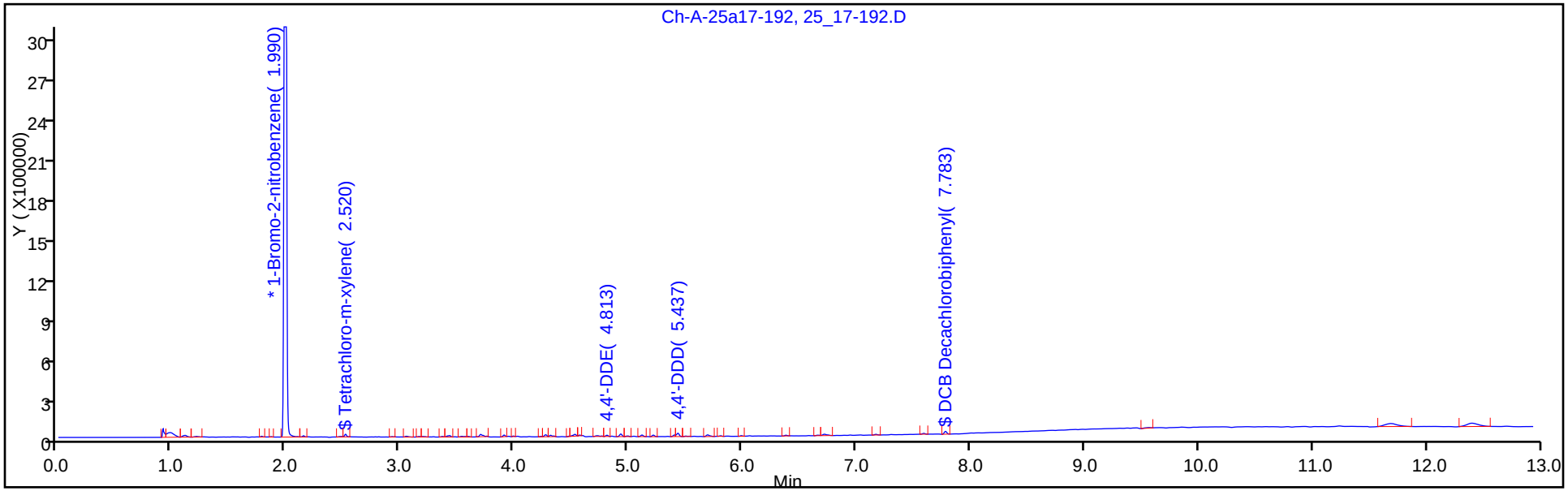
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TestAmerica Buffalo

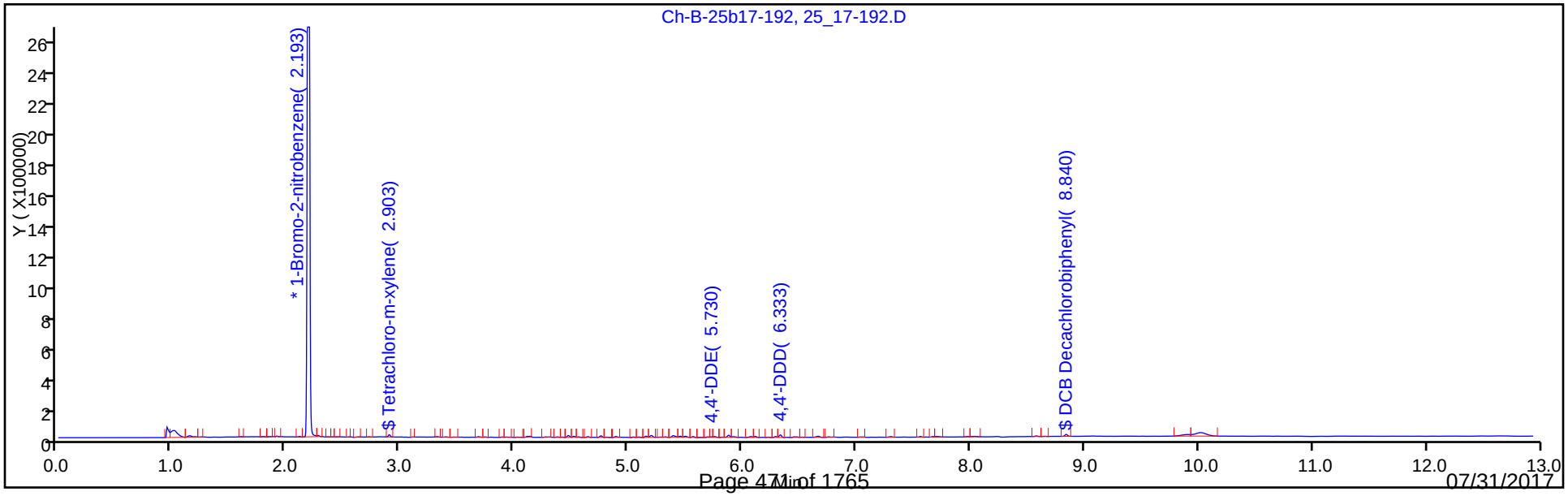
Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170722-64256.b\25_17-192.D

Injection Date:	22-Jul-2017 14:24:42	Instrument ID:	HP6890-25	Operator ID:	BufTCHROM
Lims ID:	480-121321-A-3-C	Lab Sample ID:	480-121321-3	Worklist Smp#:	20
Client ID:	TP-18				
Injection Vol:	1.0 ul	Dil. Factor:	20.0000	ALS Bottle#:	0
Method:	IS-8081	Limit Group:	GC - 8081B IS ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
PESTICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121321-1

SDG No.:

Client Sample ID: TP-04 | Lab Sample ID: 480-121321-4

Matrix: Solid | Lab File ID: 25_17-189.D

Analysis Method: 8081B | Date Collected: 07/19/2017 13:00

Extraction Method: 3550C | Date Extracted: 07/21/2017 06:42

Sample wt/vol: 30.42(g) | Date Analyzed: 07/22/2017 13:25

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RTX-CLPI ID: 0.53(mm)

% Moisture: 17.9 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 368232 | Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	95		45-120
877-09-8	Tetrachloro-m-xylene	73		30-124

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170722-64256.b\25_17-189.D
Lims ID: 480-121321-A-4-G
Client ID: TP-04
Sample Type: Client
Inject. Date: 22-Jul-2017 13:25:35 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#, CN10839003
Operator ID: BufTCHROM Instrument ID: HP6890-25

Method: \\ChromNA\Buffalo\ChromData\HP6890-25\20170722-64256.b\IS-8081.m
Limit Group: GC - 8081B IS ICAL
Last Update: 24-Jul-2017 07:46:32 Calib Date: 20-Jul-2017 14:40:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\25_17-171.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK016

First Level Reviewer: salversonj Date: 22-Jul-2017 13:40:25

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Flags
* 44 1-Bromo-2-nitrobenzene						
1	1.990	1.990	0.000	11848050	0.5000	
2	2.193	2.193	0.000	8236253	0.5000	
					RPD = 0.00	
$ 4 Tetrachloro-m-xylene						
1	2.517	2.517	0.000	315573	0.0146	
2	2.903	2.903	0.000	300610	0.0146	
					RPD = 0.11	
9 delta-BHC						
1	3.403	3.417	-0.014	10667	0.001209	
2	4.203	4.180	0.023	5501	0.001283	
					RPD = 5.98	
18 4,4'-DDE						
1	4.817	4.817	0.000	29382	0.001685	
2	5.730	5.733	-0.003	16613	0.001629	
					RPD = 3.36	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Flags
$ 34 DCB Decachlorobiphenyl						
1	7.777	7.780	-0.003	462465	0.0190	
2	8.840	8.843	-0.003	278514	0.0210	
					RPD = 9.97	
S 1 BHC, Total						
1					0.001209	
2					0.001283	
					RPD = 5.98	

Reagents:

COPPER_00067	Amount Added: 1.00	Units: Packet	Run Reagent
1-Br2nit 50ng_00008	Amount Added: 10.00	Units: uL	Run Reagent

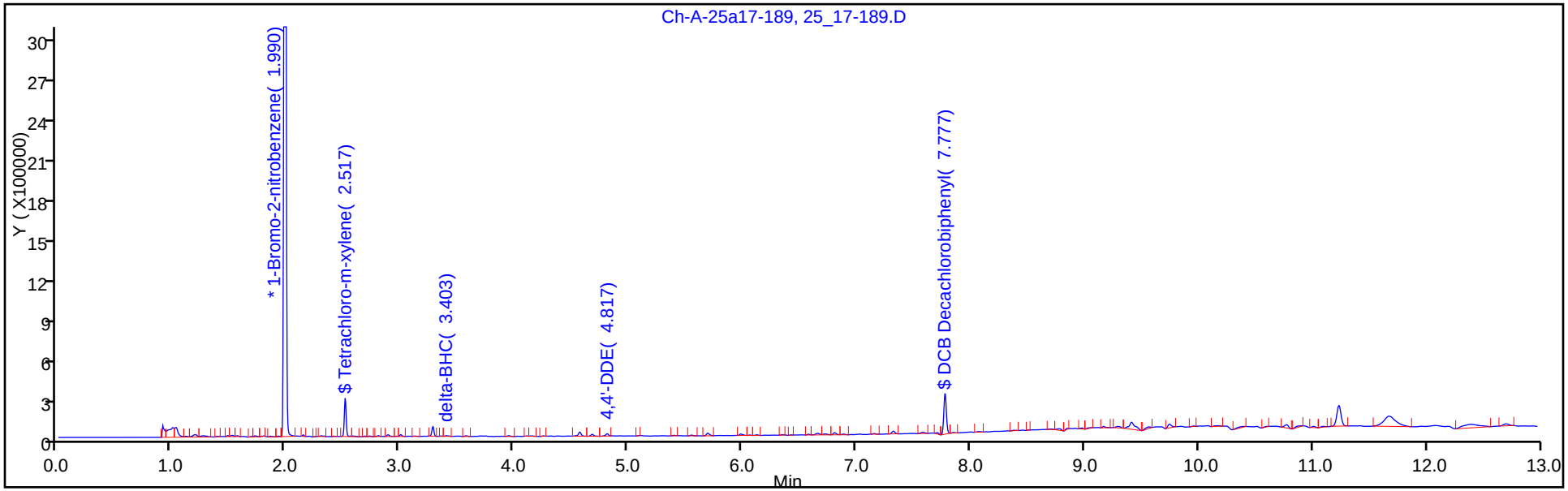
Report Date: 24-Jul-2017 07:46:43 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

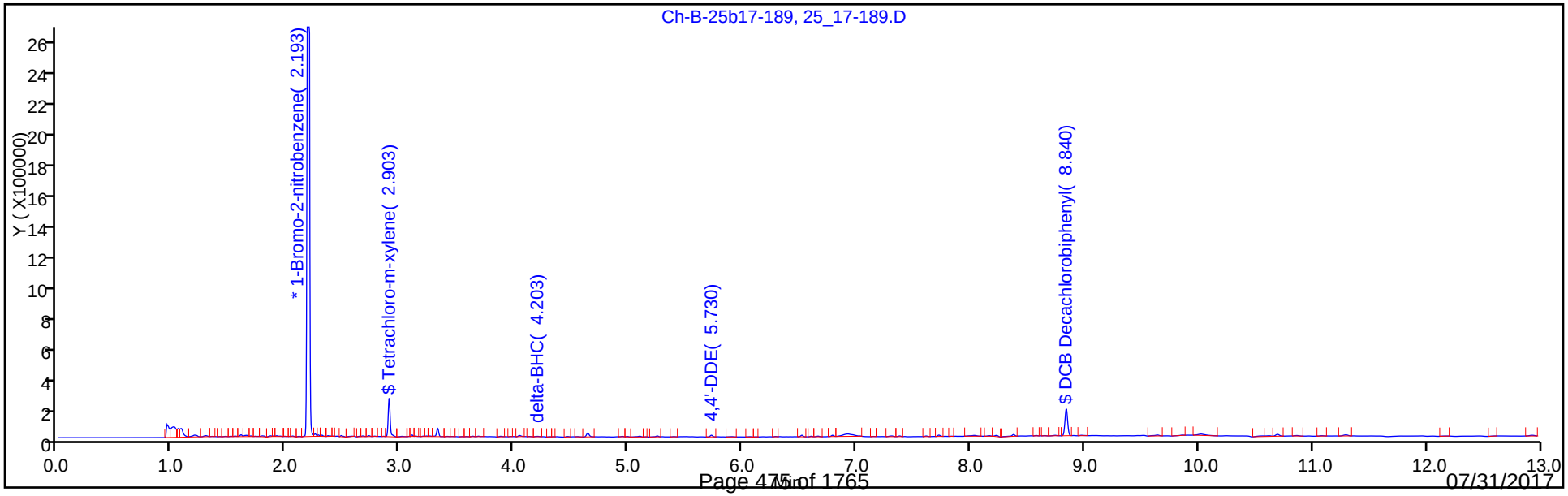
Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170722-64256.b\25_17-189.D

Injection Date:	22-Jul-2017 13:25:35	Instrument ID:	HP6890-25	Operator ID:	BufTCHROM
Lims ID:	480-121321-A-4-G	Lab Sample ID:	480-121321-4	Worklist Smp#:	17
Client ID:	TP-04				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IS-8081	Limit Group:	GC - 8081B IS ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
PESTICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121321-1

SDG No.:

Client Sample ID: TP-04 | Lab Sample ID: 480-121321-4

Matrix: Solid | Lab File ID: 25_17-189.D

Analysis Method: 8081B | Date Collected: 07/19/2017 13:00

Extraction Method: 3550C | Date Extracted: 07/21/2017 06:42

Sample wt/vol: 30.42(g) | Date Analyzed: 07/22/2017 13:25

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RTX-CLPII ID: 0.53(mm)

% Moisture: 17.9 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 368232 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
72-54-8	4,4'-DDD	ND		2.0	0.39
72-55-9	4,4'-DDE	0.65	J	2.0	0.42
50-29-3	4,4'-DDT	ND		2.0	0.47
309-00-2	Aldrin	ND		2.0	0.49
319-84-6	alpha-BHC	ND		2.0	0.36
5103-71-9	alpha-Chlordane	ND		2.0	1.0
319-85-7	beta-BHC	ND		2.0	0.36
319-86-8	delta-BHC	0.51	J	2.0	0.37
60-57-1	Dieldrin	ND		2.0	0.48
959-98-8	Endosulfan I	ND		2.0	0.38
33213-65-9	Endosulfan II	ND		2.0	0.36
1031-07-8	Endosulfan sulfate	ND		2.0	0.37
72-20-8	Endrin	ND		2.0	0.40
7421-93-4	Endrin aldehyde	ND		2.0	0.51
53494-70-5	Endrin ketone	ND		2.0	0.49
58-89-9	gamma-BHC (Lindane)	ND		2.0	0.37
5103-74-2	gamma-Chlordane	ND		2.0	0.64
76-44-8	Heptachlor	ND		2.0	0.43
1024-57-3	Heptachlor epoxide	ND		2.0	0.52
72-43-5	Methoxychlor	ND	F1	2.0	0.41
8001-35-2	Toxaphene	ND		20	12

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	105		45-120
877-09-8	Tetrachloro-m-xylene	73		30-124

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170722-64256.b\25_17-189.D
Lims ID: 480-121321-A-4-G
Client ID: TP-04
Sample Type: Client
Inject. Date: 22-Jul-2017 13:25:35 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#, CN10839003
Operator ID: BufTCHROM Instrument ID: HP6890-25

Method: \\ChromNA\Buffalo\ChromData\HP6890-25\20170722-64256.b\IS-8081.m
Limit Group: GC - 8081B IS ICAL
Last Update: 24-Jul-2017 07:46:32 Calib Date: 20-Jul-2017 14:40:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\25_17-171.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK016

First Level Reviewer: salversonj Date: 22-Jul-2017 13:40:25

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Flags
* 44 1-Bromo-2-nitrobenzene						
1	1.990	1.990	0.000	11848050	0.5000	
2	2.193	2.193	0.000	8236253	0.5000	
					RPD = 0.00	
$ 4 Tetrachloro-m-xylene						
1	2.517	2.517	0.000	315573	0.0146	
2	2.903	2.903	0.000	300610	0.0146	
					RPD = 0.11	
9 delta-BHC						
1	3.403	3.417	-0.014	10667	0.001209	
2	4.203	4.180	0.023	5501	0.001283	
					RPD = 5.98	
18 4,4'-DDE						
1	4.817	4.817	0.000	29382	0.001685	
2	5.730	5.733	-0.003	16613	0.001629	
					RPD = 3.36	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Flags
$ 34 DCB Decachlorobiphenyl						
1	7.777	7.780	-0.003	462465	0.0190	
2	8.840	8.843	-0.003	278514	0.0210	
					RPD = 9.97	
S 1 BHC, Total						
1					0.001209	
2					0.001283	
					RPD = 5.98	

Reagents:

COPPER_00067	Amount Added: 1.00	Units: Packet	Run Reagent
1-Br2nit 50ng_00008	Amount Added: 10.00	Units: uL	Run Reagent

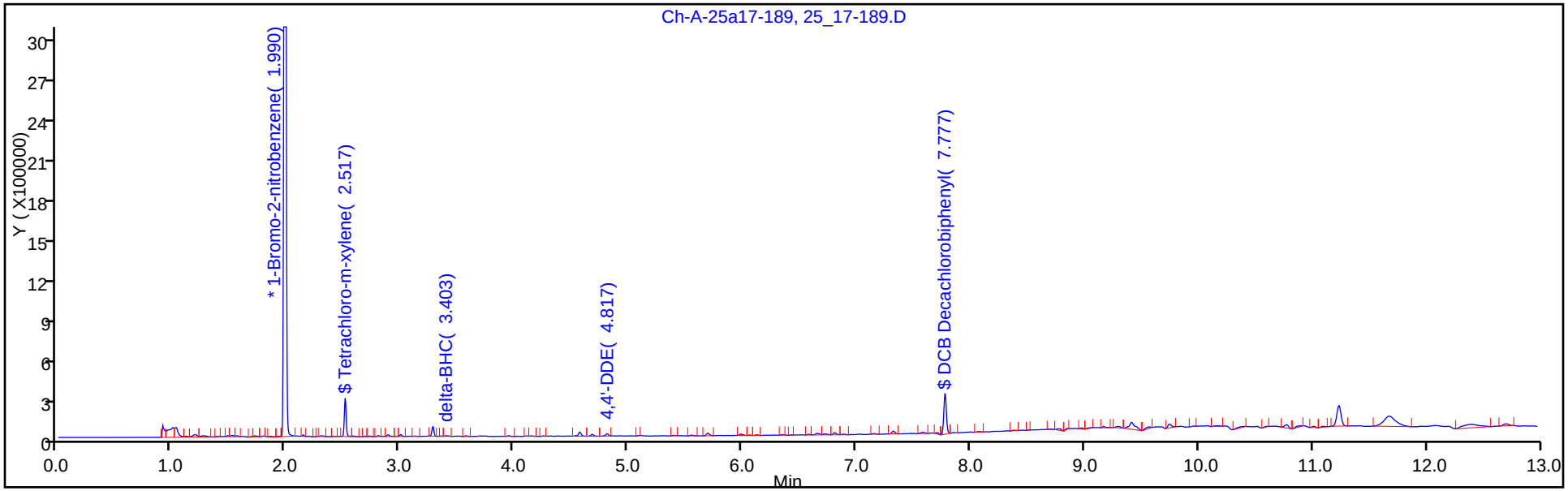
Report Date: 24-Jul-2017 07:46:43 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

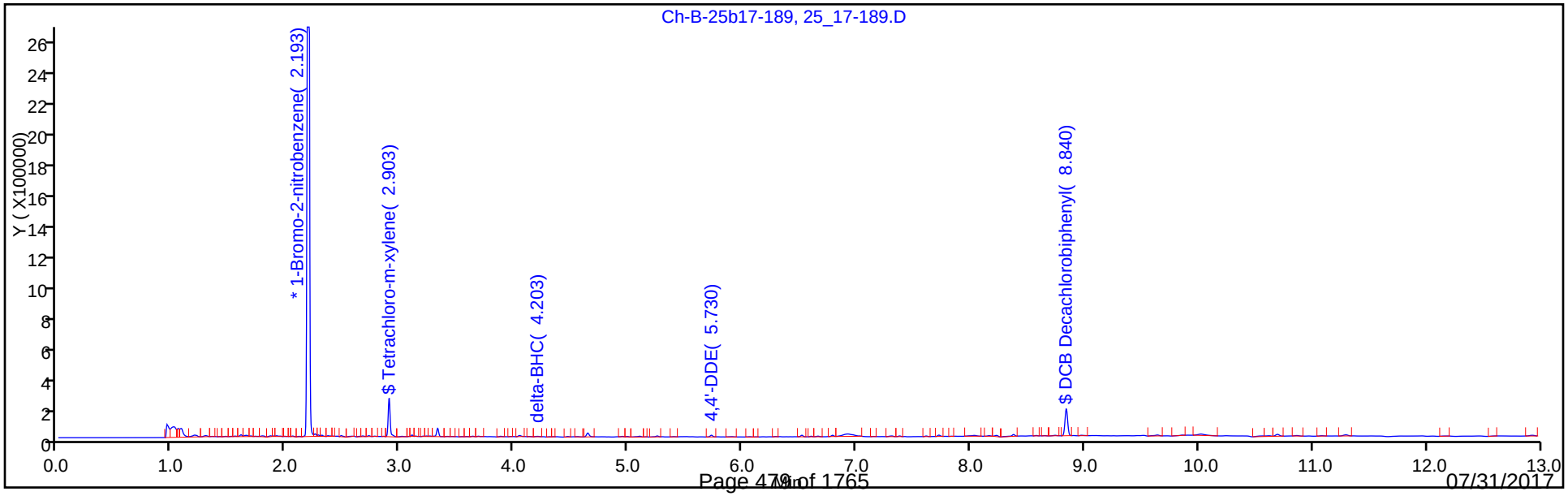
Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170722-64256.b\25_17-189.D

Injection Date:	22-Jul-2017 13:25:35	Instrument ID:	HP6890-25	Operator ID:	BufTCHROM
Lims ID:	480-121321-A-4-G	Lab Sample ID:	480-121321-4	Worklist Smp#:	17
Client ID:	TP-04				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IS-8081	Limit Group:	GC - 8081B IS ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
PESTICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121321-1

SDG No.:

Client Sample ID: TP-05 | Lab Sample ID: 480-121321-5

Matrix: Solid | Lab File ID: 25_17-193.D

Analysis Method: 8081B | Date Collected: 07/19/2017 14:00

Extraction Method: 3550C | Date Extracted: 07/21/2017 06:42

Sample wt/vol: 30.86(g) | Date Analyzed: 07/22/2017 14:44

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RTX-CLPI ID: 0.53(mm)

% Moisture: 21.0 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 368232 | Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	96		45-120
877-09-8	Tetrachloro-m-xylene	76		30-124

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170722-64256.b\25_17-193.D
Lims ID: 480-121321-B-5-B
Client ID: TP-05
Sample Type: Client
Inject. Date: 22-Jul-2017 14:44:19 ALS Bottle#: 0 Worklist Smp#: 21
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, CN10839003
Operator ID: BufTCHROM Instrument ID: HP6890-25

Method: \\ChromNA\Buffalo\ChromData\HP6890-25\20170722-64256.b\IS-8081.m
Limit Group: GC - 8081B IS ICAL
Last Update: 24-Jul-2017 07:46:32 Calib Date: 20-Jul-2017 14:40:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\25_17-171.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK016

First Level Reviewer: NearyM Date: 24-Jul-2017 07:33:58

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Flags
* 44 1-Bromo-2-nitrobenzene						
1	1.990	1.990	0.000	12080026	0.5000	
2	2.193	2.193	0.000	8252440	0.5000	
					RPD = 0.00	
$ 4 Tetrachloro-m-xylene						
1	2.520	2.517	0.003	335339	0.0152	
2	2.903	2.903	0.000	323906	0.0157	
					RPD = 3.36	
9 delta-BHC						M
1	3.403	3.417	-0.014	14030	0.001278	
2	4.203	4.180	0.023	4370	0.001246	M
					RPD = 2.56	
18 4,4'-DDE						
1	4.817	4.817	0.000	23025	0.001500	
2	5.727	5.733	-0.006	10854	0.001376	
					RPD = 8.58	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Flags
28 4,4'-DDT						
1	5.700	5.723	-0.023	33892	0.002274	
2	6.663	6.663	0.000	5498	0.002198	
					RPD = 3.38	
$ 34 DCB Decachlorobiphenyl						
1	7.780	7.780	0.000	475479	0.0192	
2	8.837	8.843	-0.006	285919	0.0216	
					RPD = 11.56	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

COPPER_00067	Amount Added: 1.00	Units: Packet	Run Reagent
1-Br2nit 50ng_00008	Amount Added: 10.00	Units: uL	Run Reagent

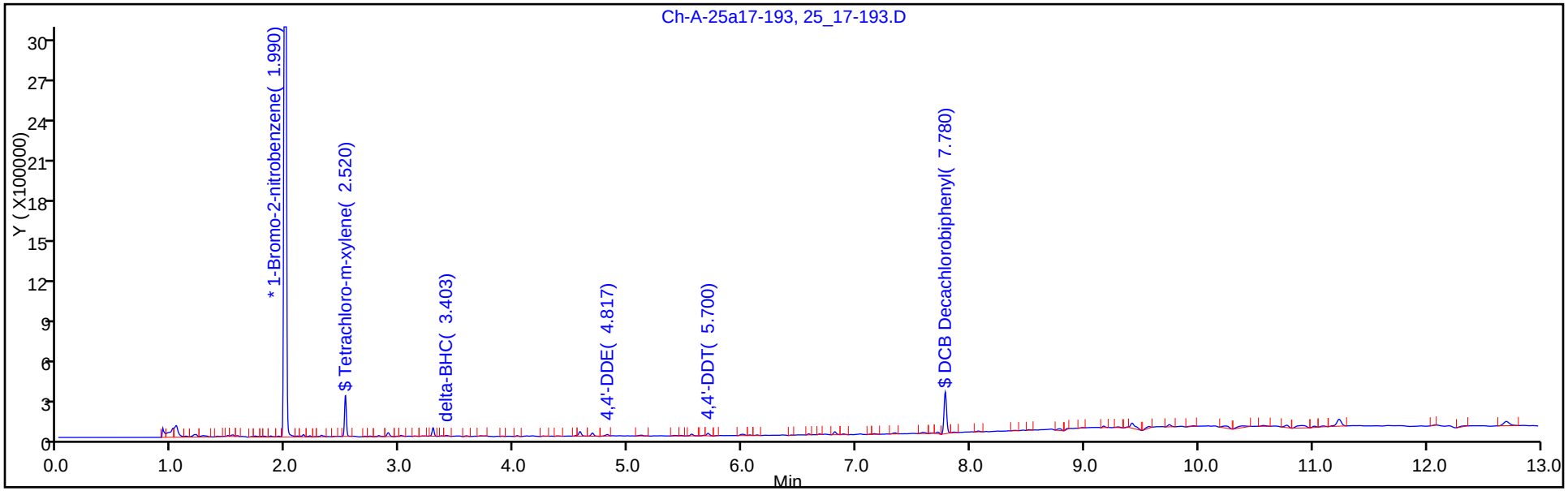
Report Date: 24-Jul-2017 07:46:48 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

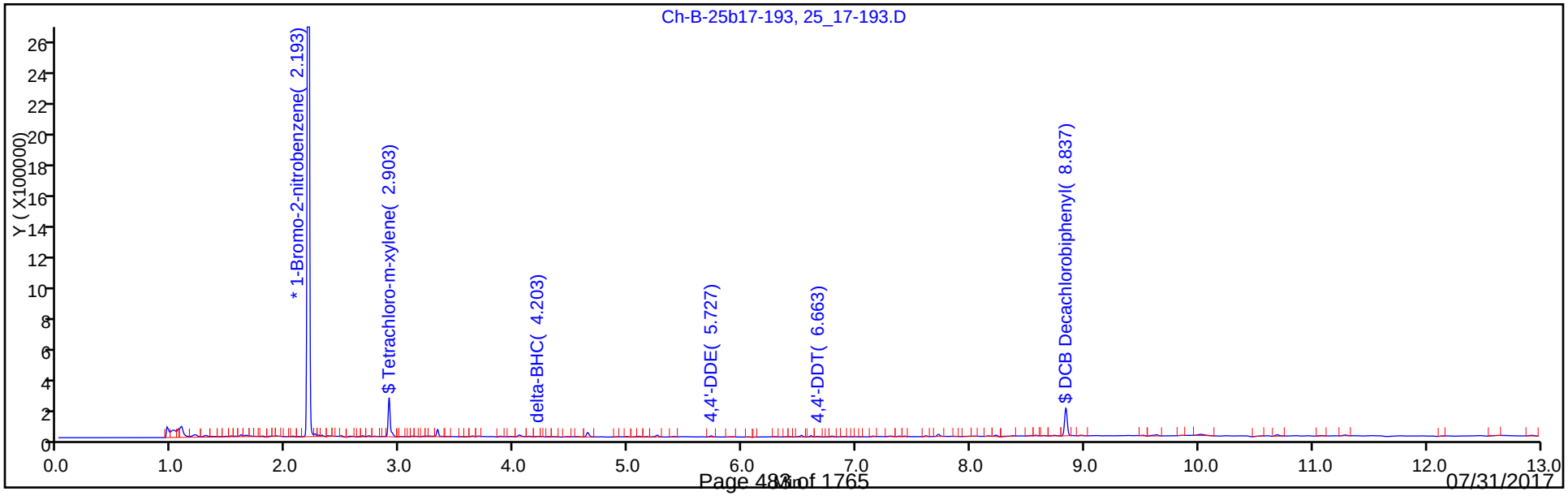
Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170722-64256.b\25_17-193.D

Injection Date:	22-Jul-2017 14:44:19	Instrument ID:	HP6890-25	Operator ID:	BufTCHROM
Lims ID:	480-121321-B-5-B	Lab Sample ID:	480-121321-5	Worklist Smp#:	21
Client ID:	TP-05				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IS-8081	Limit Group:	GC - 8081B IS ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
PESTICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121321-1

SDG No.:

Client Sample ID: TP-05 | Lab Sample ID: 480-121321-5

Matrix: Solid | Lab File ID: 25_17-193.D

Analysis Method: 8081B | Date Collected: 07/19/2017 14:00

Extraction Method: 3550C | Date Extracted: 07/21/2017 06:42

Sample wt/vol: 30.86(g) | Date Analyzed: 07/22/2017 14:44

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RTX-CLPII ID: 0.53(mm)

% Moisture: 21.0 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 368232 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
72-54-8	4,4'-DDD	ND		2.1	0.40
72-55-9	4,4'-DDE	0.56	J	2.1	0.43
50-29-3	4,4'-DDT	0.90	J	2.1	0.48
309-00-2	Aldrin	ND		2.1	0.50
319-84-6	alpha-BHC	ND		2.1	0.37
5103-71-9	alpha-Chlordane	ND		2.1	1.0
319-85-7	beta-BHC	ND		2.1	0.37
319-86-8	delta-BHC	0.51	J	2.1	0.38
60-57-1	Dieldrin	ND		2.1	0.49
959-98-8	Endosulfan I	ND		2.1	0.39
33213-65-9	Endosulfan II	ND		2.1	0.37
1031-07-8	Endosulfan sulfate	ND		2.1	0.38
72-20-8	Endrin	ND		2.1	0.41
7421-93-4	Endrin aldehyde	ND		2.1	0.52
53494-70-5	Endrin ketone	ND		2.1	0.50
58-89-9	gamma-BHC (Lindane)	ND		2.1	0.38
5103-74-2	gamma-Chlordane	ND		2.1	0.65
76-44-8	Heptachlor	ND		2.1	0.44
1024-57-3	Heptachlor epoxide	ND		2.1	0.53
72-43-5	Methoxychlor	ND		2.1	0.42
8001-35-2	Toxaphene	ND		21	12

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	108		45-120
877-09-8	Tetrachloro-m-xylene	78		30-124

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170722-64256.b\25_17-193.D
Lims ID: 480-121321-B-5-B
Client ID: TP-05
Sample Type: Client
Inject. Date: 22-Jul-2017 14:44:19 ALS Bottle#: 0 Worklist Smp#: 21
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, CN10839003
Operator ID: BufTCHROM Instrument ID: HP6890-25

Method: \\ChromNA\Buffalo\ChromData\HP6890-25\20170722-64256.b\IS-8081.m
Limit Group: GC - 8081B IS ICAL
Last Update: 24-Jul-2017 07:46:32 Calib Date: 20-Jul-2017 14:40:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\25_17-171.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK016

First Level Reviewer: NearyM Date: 24-Jul-2017 07:33:58

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Flags
* 44 1-Bromo-2-nitrobenzene						
1	1.990	1.990	0.000	12080026	0.5000	
2	2.193	2.193	0.000	8252440	0.5000	
					RPD = 0.00	
$ 4 Tetrachloro-m-xylene						
1	2.520	2.517	0.003	335339	0.0152	
2	2.903	2.903	0.000	323906	0.0157	
					RPD = 3.36	
9 delta-BHC						M
1	3.403	3.417	-0.014	14030	0.001278	
2	4.203	4.180	0.023	4370	0.001246	M
					RPD = 2.56	
18 4,4'-DDE						
1	4.817	4.817	0.000	23025	0.001500	
2	5.727	5.733	-0.006	10854	0.001376	
					RPD = 8.58	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Flags
28 4,4'-DDT						
1	5.700	5.723	-0.023	33892	0.002274	
2	6.663	6.663	0.000	5498	0.002198	
					RPD = 3.38	
$ 34 DCB Decachlorobiphenyl						
1	7.780	7.780	0.000	475479	0.0192	
2	8.837	8.843	-0.006	285919	0.0216	
					RPD = 11.56	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

COPPER_00067	Amount Added: 1.00	Units: Packet	Run Reagent
1-Br2nit 50ng_00008	Amount Added: 10.00	Units: uL	Run Reagent

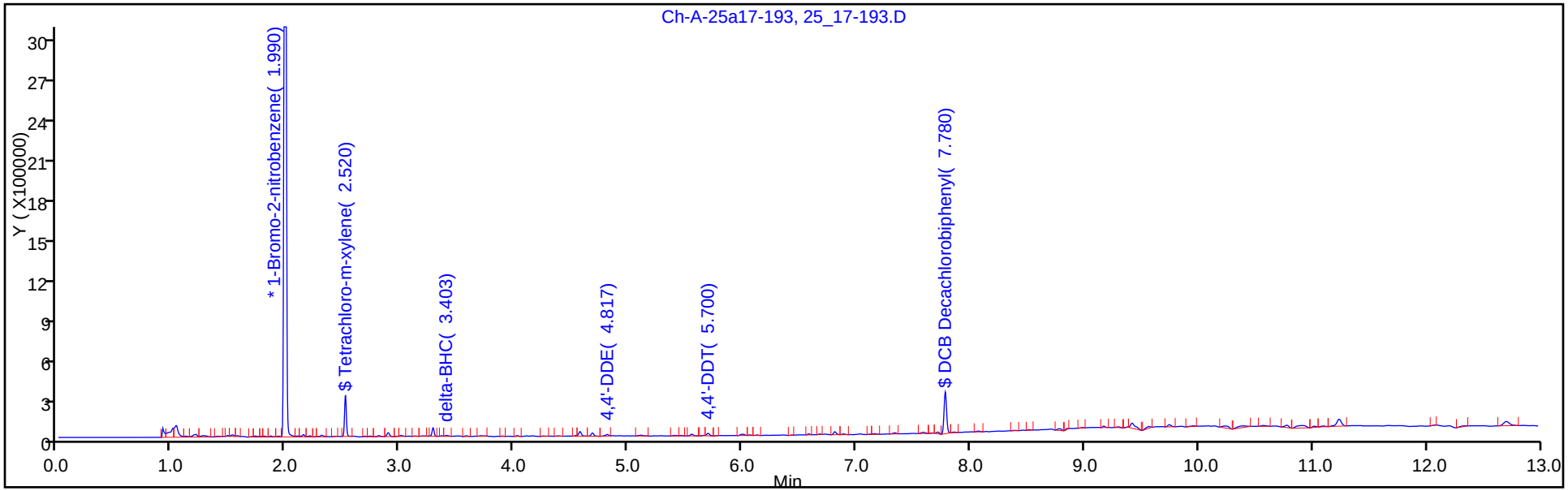
Report Date: 24-Jul-2017 07:46:49 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

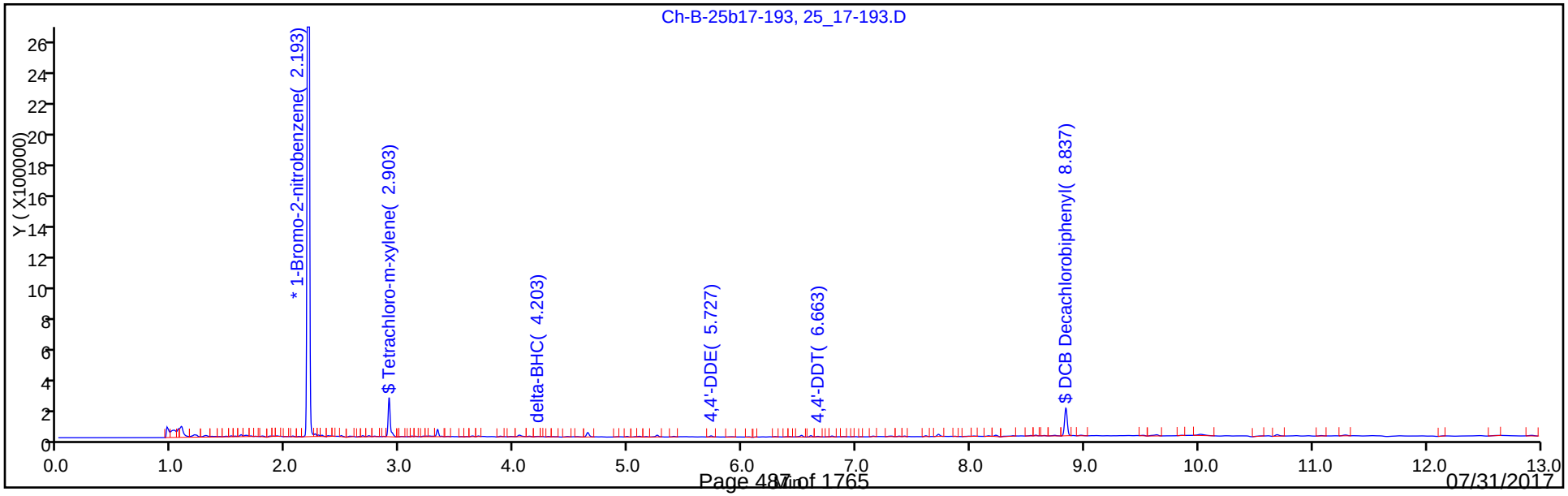
Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170722-64256.b\25_17-193.D

Injection Date:	22-Jul-2017 14:44:19	Instrument ID:	HP6890-25	Operator ID:	BufTCHROM
Lims ID:	480-121321-B-5-B	Lab Sample ID:	480-121321-5	Worklist Smp#:	21
Client ID:	TP-05				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IS-8081	Limit Group:	GC - 8081B IS 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

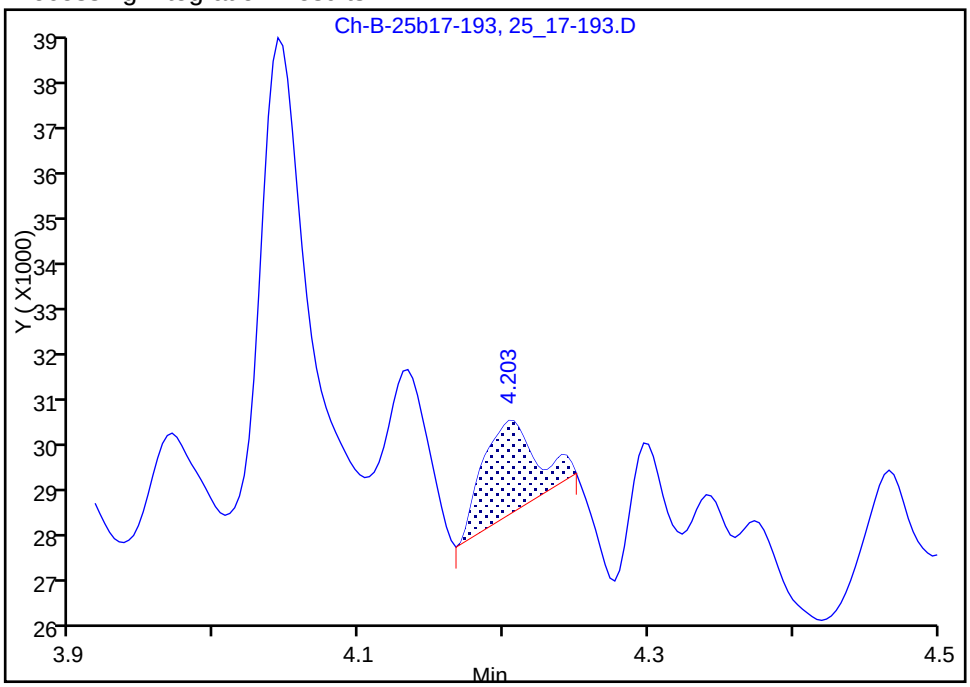
Data File:	\\ChromNA\Buffalo\ChromData\HP6890-25\20170722-64256.b\25_17-193.D				
Injection Date:	22-Jul-2017 14:44:19	Instrument ID:	HP6890-25		
Lims ID:	480-121321-B-5-B	Lab Sample ID:	480-121321-5		
Client ID:	TP-05				
Operator ID:	BufTCHROM	ALS Bottle#:	0	Worklist Smp#:	21
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	IS-8081	Limit Group:	GC - 8081B IS ICAL		
Column:		Detector	Ch-B-6b58132		

9 delta-BHC, CAS: 319-86-8

Signal: 2

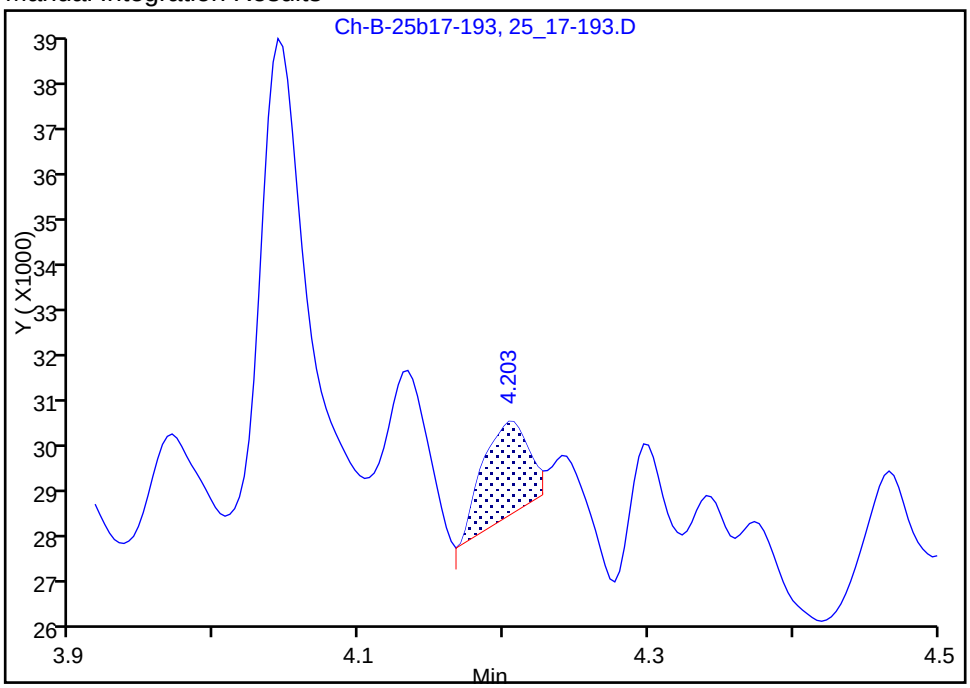
Processing Integration Results

RT: 4.20
Area: 4984
Amount: 0.001266
Amount Units: ng/ul



Manual Integration Results

RT: 4.20
Area: 4370
Amount: 0.001246
Amount Units: ng/ul



Reviewer: NearyM, 24-Jul-2017 07:33:01

Audit Action: Split an Integrated Peak Audit Reason: Split Peak

FORM I
PESTICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121321-1

SDG No.:

Client Sample ID: DUP | Lab Sample ID: 480-121321-6

Matrix: Solid | Lab File ID: 25_17-194.D

Analysis Method: 8081B | Date Collected: 07/19/2017 00:00

Extraction Method: 3550C | Date Extracted: 07/21/2017 06:42

Sample wt/vol: 30.32(g) | Date Analyzed: 07/22/2017 15:03

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RTX-CLPI ID: 0.53(mm)

% Moisture: 17.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 368232 | Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	94		45-120
877-09-8	Tetrachloro-m-xylene	78		30-124

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170722-64256.b\25_17-194.D
Lims ID: 480-121321-B-6-B
Client ID: DUP
Sample Type: Client
Inject. Date: 22-Jul-2017 15:03:58 ALS Bottle#: 0 Worklist Smp#: 22
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, CN10839003
Operator ID: BufTCHROM Instrument ID: HP6890-25

Method: \\ChromNA\Buffalo\ChromData\HP6890-25\20170722-64256.b\IS-8081.m
Limit Group: GC - 8081B IS ICAL
Last Update: 24-Jul-2017 07:46:32 Calib Date: 20-Jul-2017 14:40:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\25_17-171.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK016

First Level Reviewer: NearyM Date: 24-Jul-2017 07:36:03

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Flags
* 44 1-Bromo-2-nitrobenzene						
1	1.993	1.990	0.003	11943281	0.5000	
2	2.197	2.193	0.004	8206414	0.5000	
					RPD = 0.00	
$ 4 Tetrachloro-m-xylene						
1	2.520	2.517	0.003	342356	0.0156	
2	2.903	2.903	0.000	308684	0.0150	
					RPD = 3.78	
18 4,4'-DDE						
1	4.813	4.817	-0.004	11327	0.001192	
2	5.730	5.733	-0.003	5462	0.001143	
					RPD = 4.19	
28 4,4'-DDT						
1	5.703	5.723	-0.020	31794	0.002221	
2	6.667	6.663	0.004	5036	0.002175	
					RPD = 2.11	
$ 34 DCB Decachlorobiphenyl						
1	7.783	7.780	0.003	462560	0.0189	
2	8.840	8.843	-0.003	280824	0.0213	
					RPD = 11.95	

Reagents:

COPPER_00067 Amount Added: 1.00 Units: Packet Run Reagent
1-Br2nit 50ng_00008 Amount Added: 10.00 Units: uL Run Reagent

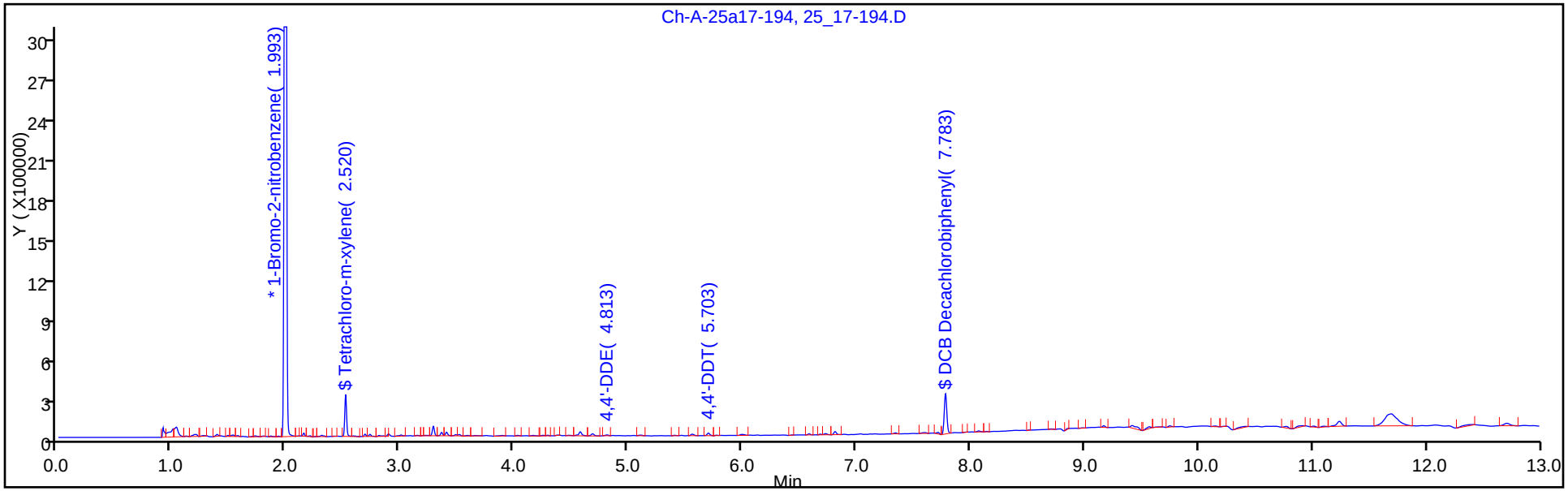
Report Date: 24-Jul-2017 07:46:50 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

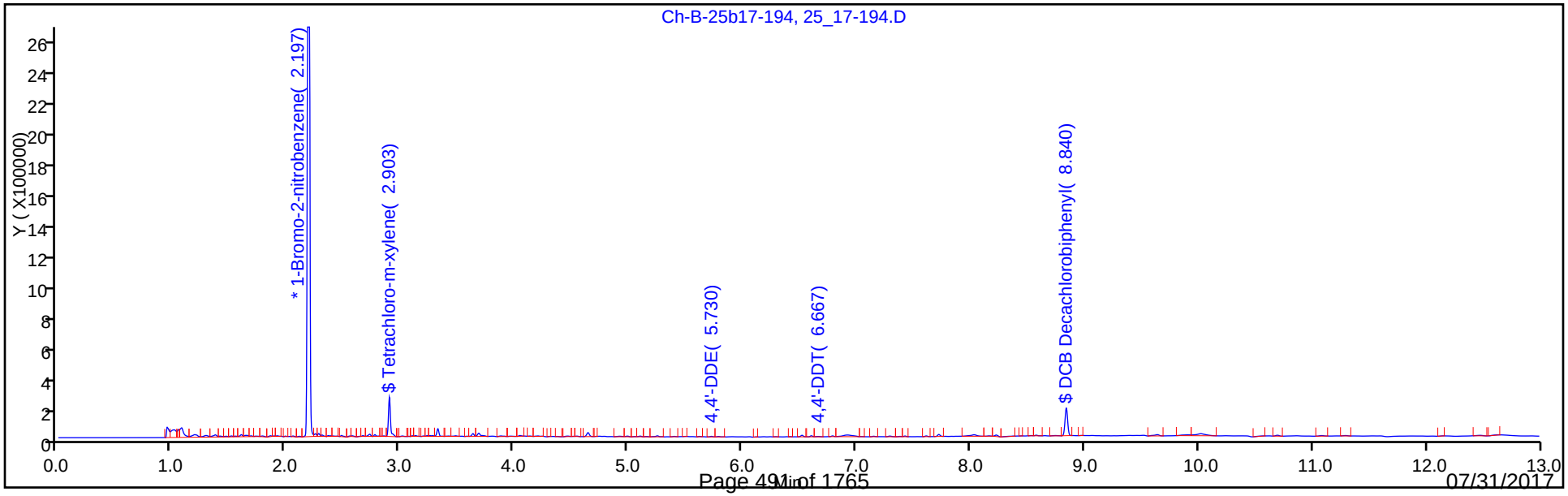
Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170722-64256.b\25_17-194.D

Injection Date:	22-Jul-2017 15:03:58	Instrument ID:	HP6890-25	Operator ID:	BufTCHROM
Lims ID:	480-121321-B-6-B	Lab Sample ID:	480-121321-6	Worklist Smp#:	22
Client ID:	DUP				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IS-8081	Limit Group:	GC - 8081B IS ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
PESTICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121321-1

SDG No.:

Client Sample ID: DUP | Lab Sample ID: 480-121321-6

Matrix: Solid | Lab File ID: 25_17-194.D

Analysis Method: 8081B | Date Collected: 07/19/2017 00:00

Extraction Method: 3550C | Date Extracted: 07/21/2017 06:42

Sample wt/vol: 30.32(g) | Date Analyzed: 07/22/2017 15:03

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RTX-CLPII ID: 0.53(mm)

% Moisture: 17.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 368232 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
72-54-8	4,4'-DDD	ND		2.0	0.39
72-55-9	4,4'-DDE	0.46	J	2.0	0.42
50-29-3	4,4'-DDT	0.87	J	2.0	0.47
309-00-2	Aldrin	ND		2.0	0.49
319-84-6	alpha-BHC	ND		2.0	0.36
5103-71-9	alpha-Chlordane	ND		2.0	1.0
319-85-7	beta-BHC	ND		2.0	0.36
319-86-8	delta-BHC	ND		2.0	0.37
60-57-1	Dieldrin	ND		2.0	0.48
959-98-8	Endosulfan I	ND		2.0	0.38
33213-65-9	Endosulfan II	ND		2.0	0.36
1031-07-8	Endosulfan sulfate	ND		2.0	0.37
72-20-8	Endrin	ND		2.0	0.40
7421-93-4	Endrin aldehyde	ND		2.0	0.51
53494-70-5	Endrin ketone	ND		2.0	0.49
58-89-9	gamma-BHC (Lindane)	ND		2.0	0.37
5103-74-2	gamma-Chlordane	ND		2.0	0.64
76-44-8	Heptachlor	ND		2.0	0.43
1024-57-3	Heptachlor epoxide	ND		2.0	0.52
72-43-5	Methoxychlor	ND		2.0	0.41
8001-35-2	Toxaphene	ND		20	12

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	106		45-120
877-09-8	Tetrachloro-m-xylene	75		30-124

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170722-64256.b\25_17-194.D
Lims ID: 480-121321-B-6-B
Client ID: DUP
Sample Type: Client
Inject. Date: 22-Jul-2017 15:03:58 ALS Bottle#: 0 Worklist Smp#: 22
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, CN10839003
Operator ID: BufTCHROM Instrument ID: HP6890-25

Method: \\ChromNA\Buffalo\ChromData\HP6890-25\20170722-64256.b\IS-8081.m
Limit Group: GC - 8081B IS ICAL
Last Update: 24-Jul-2017 07:46:32 Calib Date: 20-Jul-2017 14:40:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\25_17-171.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK016

First Level Reviewer: NearyM Date: 24-Jul-2017 07:36:03

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Flags
* 44 1-Bromo-2-nitrobenzene						
1	1.993	1.990	0.003	11943281	0.5000	
2	2.197	2.193	0.004	8206414	0.5000	
					RPD = 0.00	
$ 4 Tetrachloro-m-xylene						
1	2.520	2.517	0.003	342356	0.0156	
2	2.903	2.903	0.000	308684	0.0150	
					RPD = 3.78	
18 4,4'-DDE						
1	4.813	4.817	-0.004	11327	0.001192	
2	5.730	5.733	-0.003	5462	0.001143	
					RPD = 4.19	
28 4,4'-DDT						
1	5.703	5.723	-0.020	31794	0.002221	
2	6.667	6.663	0.004	5036	0.002175	
					RPD = 2.11	
$ 34 DCB Decachlorobiphenyl						
1	7.783	7.780	0.003	462560	0.0189	
2	8.840	8.843	-0.003	280824	0.0213	
					RPD = 11.95	

Reagents:

COPPER_00067 Amount Added: 1.00 Units: Packet Run Reagent
1-Br2nit 50ng_00008 Amount Added: 10.00 Units: uL Run Reagent

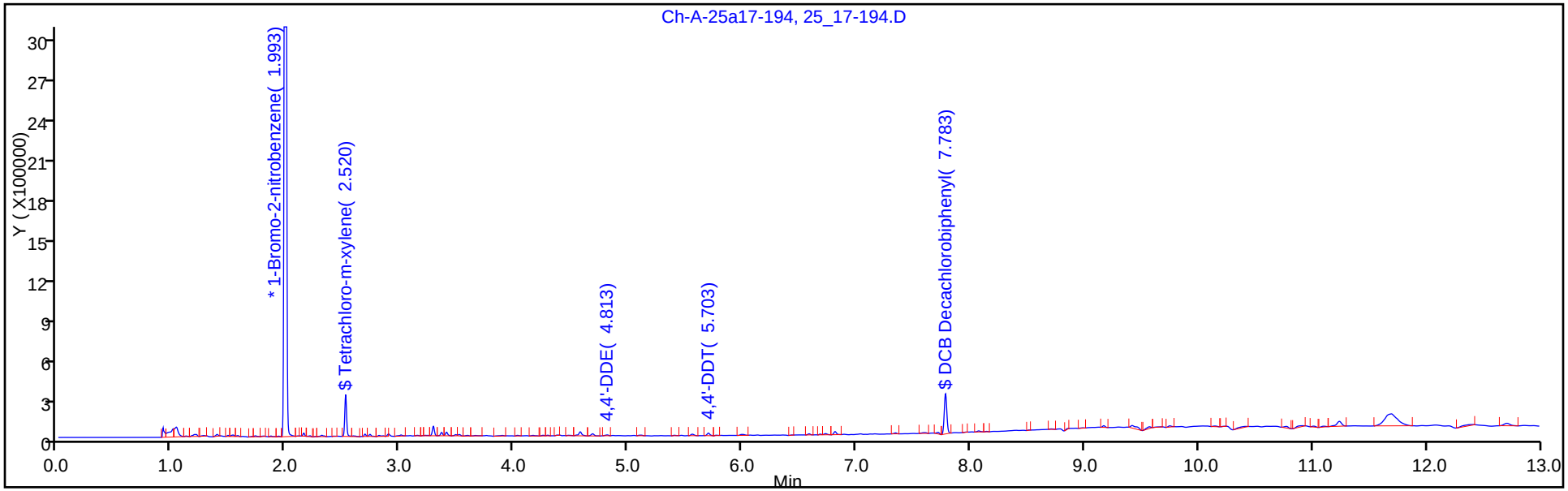
Report Date: 24-Jul-2017 07:46:50 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

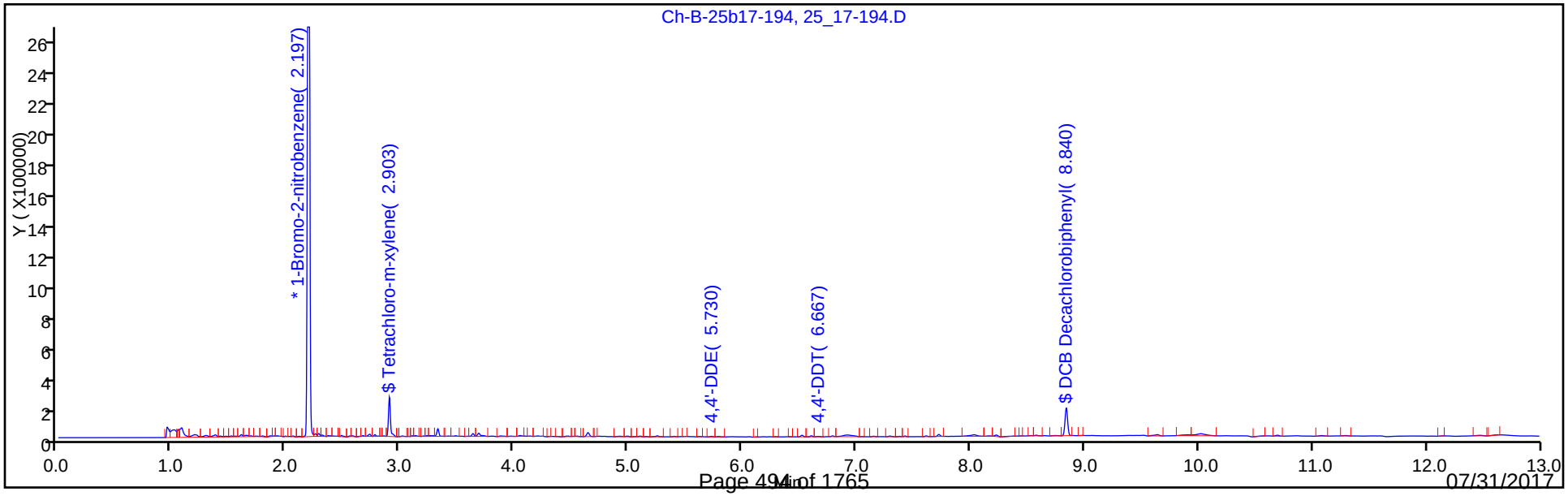
Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170722-64256.b\25_17-194.D

Injection Date:	22-Jul-2017 15:03:58	Instrument ID:	HP6890-25	Operator ID:	BufTCHROM
Lims ID:	480-121321-B-6-B	Lab Sample ID:	480-121321-6	Worklist Smp#:	22
Client ID:	DUP				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IS-8081	Limit Group:	GC - 8081B IS ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



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

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1 Analy Batch No.: 351826

SDG No.:

Instrument ID: HP6890-25 GC Column: RTX-CLPI ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/13/2017 14:18 Calibration End Date: 04/13/2017 15:37 Calibration ID: 30349

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD5 480-351826/22	25_13-162.D
Level 2	STD4 480-351826/21	25_13-161.D
Level 3	STD3 480-351826/20	25_13-160.D
Level 4	STD2 480-351826/19	25_13-159.D
Level 5	STD1 480-351826/18	25_13-158.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Toxaphene Peak 1	0.0441	0.0439	0.0441	0.0547	0.0515	Lin1	-0.001	0.0520							0.9950		0.9900
Toxaphene Peak 2	0.0547	0.0591	0.0649	0.0773	0.0715	Lin1	-0.001	0.0735							0.9960		0.9900
Toxaphene Peak 3	0.0301	0.0299	0.0341	0.0418	0.0374	Lin1	-0.001	0.0389							0.9940		0.9900
Toxaphene Peak 4	0.0326	0.0311	0.0351	0.0432	0.0410	Lin1	-0.001	0.0414							0.9950		0.9900
Toxaphene Peak 5	0.0307	0.0306	0.0444	0.0397	0.0365	Lin1	0	0.0391							0.9920		0.9900

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

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

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1 Analy Batch No.: 351826

SDG No.:

Instrument ID: HP6890-25 GC Column: RTX-CLPI ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/13/2017 14:18 Calibration End Date: 04/13/2017 15:37 Calibration ID: 30349

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD5 480-351826/22	25_13-162.D
Level 2	STD4 480-351826/21	25_13-161.D
Level 3	STD3 480-351826/20	25_13-160.D
Level 4	STD2 480-351826/19	25_13-159.D
Level 5	STD1 480-351826/18	25_13-158.D

ANALYTE	IS REF	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	BNB	Lin1	62848	124125	631428	1464656	2165815	0.0500	0.100	0.500	1.00	1.50
Toxaphene Peak 2	BNB	Lin1	77888	167303	928600	2071485	3007432	0.0500	0.100	0.500	1.00	1.50
Toxaphene Peak 3	BNB	Lin1	42823	84509	487478	1120183	1573764	0.0500	0.100	0.500	1.00	1.50
Toxaphene Peak 4	BNB	Lin1	46515	88103	502091	1157723	1722613	0.0500	0.100	0.500	1.00	1.50
Toxaphene Peak 5	BNB	Lin1	43710	86718	635060	1064328	1532368	0.0500	0.100	0.500	1.00	1.50

Curve Type Legend:
Lin1 = Linear 1/conc ISTD

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170413-61643.b\25_13-158.D
Lims ID: std1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 13-Apr-2017 14:18:52 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#, CN10839003
Operator ID: BufTCHROM Instrument ID: HP6890-25
Sublist: chrom-IS-8081*sub16

Method: \\ChromNA\Buffalo\ChromData\HP6890-25\20170413-61643.b\IS-8081.m
Limit Group: GC - 8081B IS ICAL
Last Update: 17-Apr-2017 13:19:24 Calib Date: 13-Apr-2017 17:35:17
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170413-61643.b\25_13-168.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK001

First Level Reviewer: NearyM Date: 13-Apr-2017 14:39:45

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 44 1-Bromo-2-nitrobenzene							
1	2.040	2.043	-0.003	14013213	0.5000	0.5000	
2	2.257	2.260	-0.003	9972056	0.5000	0.5000	
						RPD = 0.00	
26 Toxaphene							M
1	5.683	5.680	0.003	2165815	1.50	1.50	
1	5.807	5.803	0.004	3007432	1.50	1.48	
1	6.037	6.033	0.004	1573764	1.50	1.46	
1	6.373	6.370	0.003	1722613	1.50	1.50	
1	6.470	6.460	0.010	1532368	1.50	1.41	
		Average of Peak Amounts =				1.47	
2	6.013	6.013	0.000	641482	1.50	1.52	M
2	6.567	6.567	0.000	910515	1.50	1.53	M
2	6.667	6.663	0.004	1742088	1.50	1.50	M
2	6.930	6.930	0.000	1061454	1.50	1.50	M
2	7.463	7.460	0.003	883465	1.50	1.50	M
		Average of Peak Amounts =				1.51	
						RPD = 2.94	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

Tox 1.5ng_00011	Amount Added: 1.00	Units: mL	
COPPER_00067	Amount Added: 1.00	Units: Packet	Run Reagent
1-Br2nit 50ng_00006	Amount Added: 10.00	Units: uL	Run Reagent

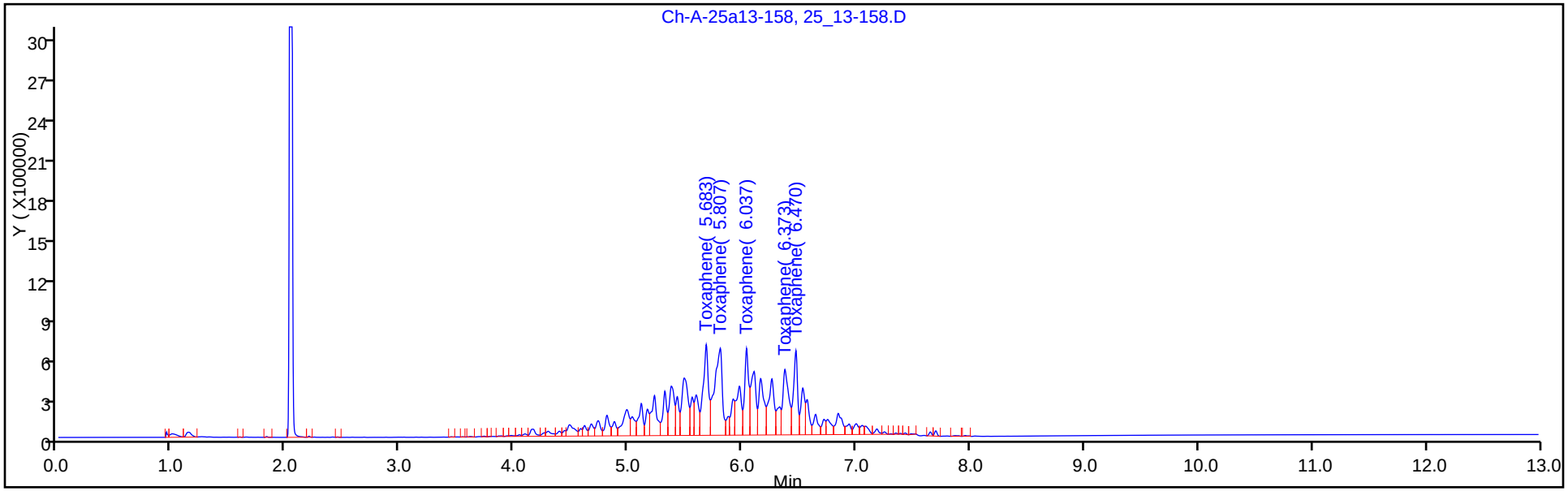
Report Date: 17-Apr-2017 13:19:25 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

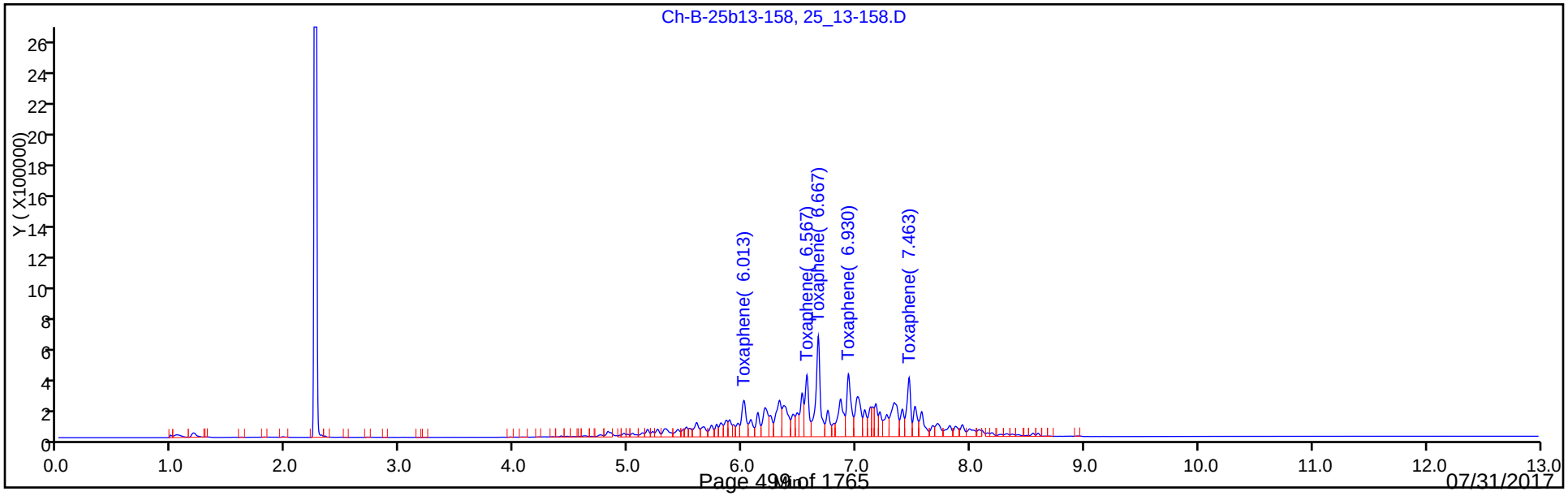
Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170413-61643.b\25_13-158.D

Injection Date:	13-Apr-2017 14:18:52	Instrument ID:	HP6890-25	Operator ID:	BufTCHROM
Lims ID:	std1			Worklist Smp#:	18
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IS-8081	Limit Group:	GC - 8081B IS 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: \\ChromNA\Buffalo\ChromData\HP6890-25\20170413-61643.b\25_13-159.D
Lims ID: std2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 13-Apr-2017 14:38:26 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#, CN10839003
Operator ID: BufTCHROM Instrument ID: HP6890-25
Sublist: chrom-IS-8081*sub16

Method: \\ChromNA\Buffalo\ChromData\HP6890-25\20170413-61643.b\IS-8081.m
Limit Group: GC - 8081B IS ICAL
Last Update: 17-Apr-2017 13:19:27 Calib Date: 13-Apr-2017 17:35:17
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170413-61643.b\25_13-168.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK001

First Level Reviewer: NearyM Date: 17-Apr-2017 07:13:01

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 44 1-Bromo-2-nitrobenzene							
1	2.037	2.043	-0.006	13396042	0.5000	0.5000	
2	2.253	2.260	-0.007	9516501	0.5000	0.5000	
						RPD = 0.00	
26 Toxaphene							M
1	5.680	5.680	0.000	1464656	1.00	1.06	M
1	5.803	5.803	0.000	2071485	1.00	1.07	M
1	6.033	6.033	0.000	1120183	1.00	1.09	M
1	6.370	6.370	0.000	1157723	1.00	1.06	M
1	6.467	6.460	0.007	1064328	1.00	1.03	M
		Average of Peak Amounts =				1.06	
2	6.013	6.013	0.000	421431	1.00	1.05	M
2	6.563	6.567	-0.004	578537	1.00	1.02	M
2	6.663	6.663	0.000	1149320	1.00	1.04	M
2	6.930	6.930	0.000	699382	1.00	1.04	M
2	7.460	7.460	0.000	582401	1.00	1.04	M
		Average of Peak Amounts =				1.04	
						RPD = 2.04	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

Tox 1.0ng_00010	Amount Added: 1.00	Units: mL	
COPPER_00067	Amount Added: 1.00	Units: Packet	Run Reagent
1-Br2nit 50ng_00006	Amount Added: 10.00	Units: uL	Run Reagent

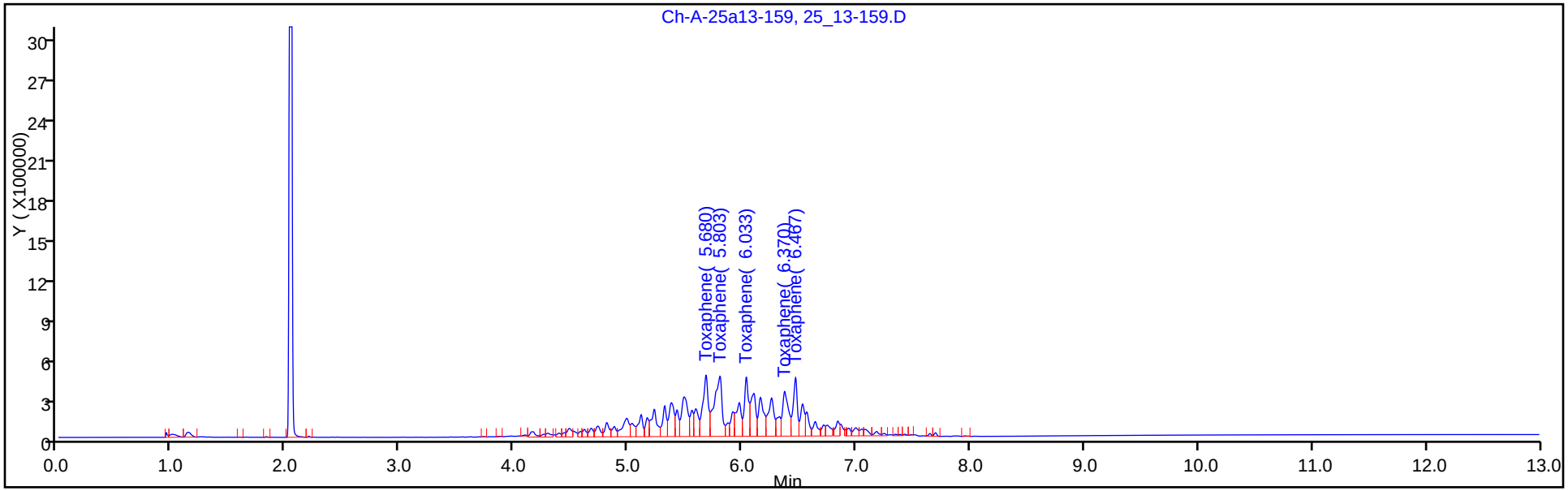
Report Date: 17-Apr-2017 13:19:27 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

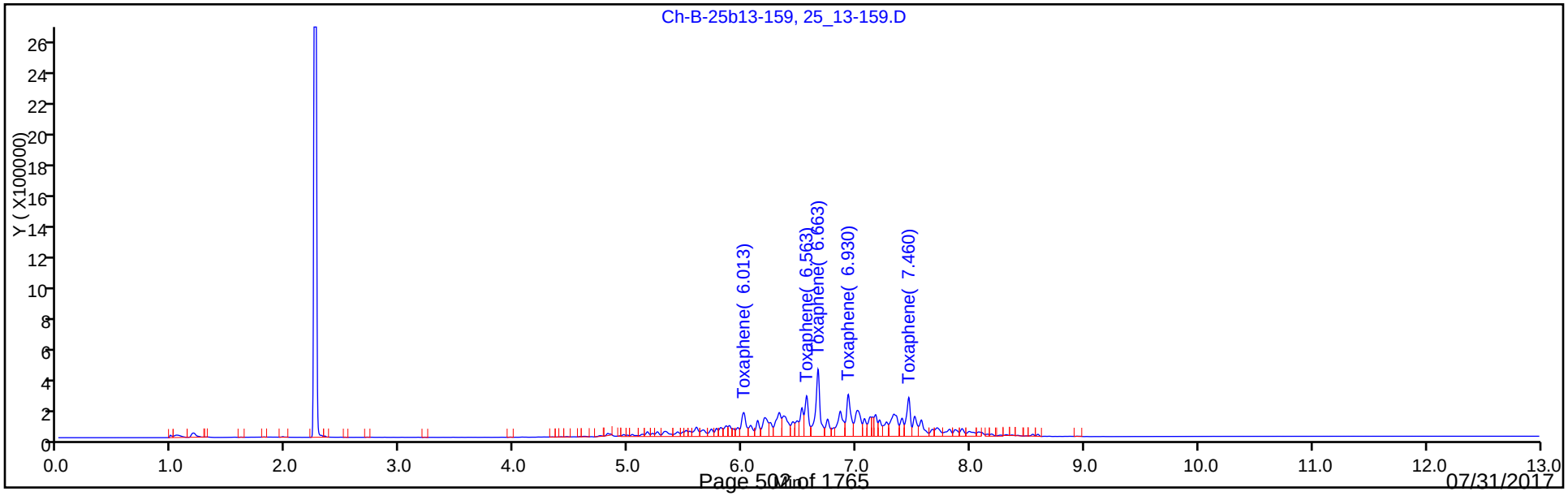
Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170413-61643.b\25_13-159.D

Injection Date:	13-Apr-2017 14:38:26	Instrument ID:	HP6890-25	Operator ID:	BufTCHROM
Lims ID:	std2			Worklist Smp#:	19
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IS-8081	Limit Group:	GC - 8081B IS ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



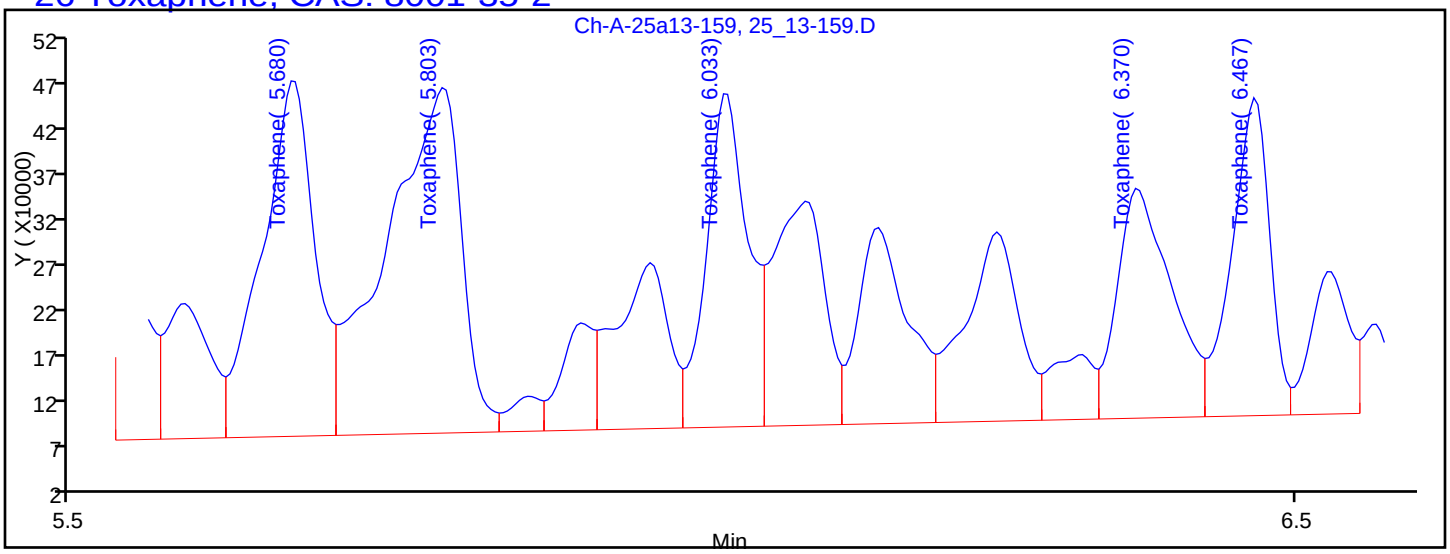
Report Date: 17-Apr-2017 13:19:27 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170413-61643.b\25_13-159.D

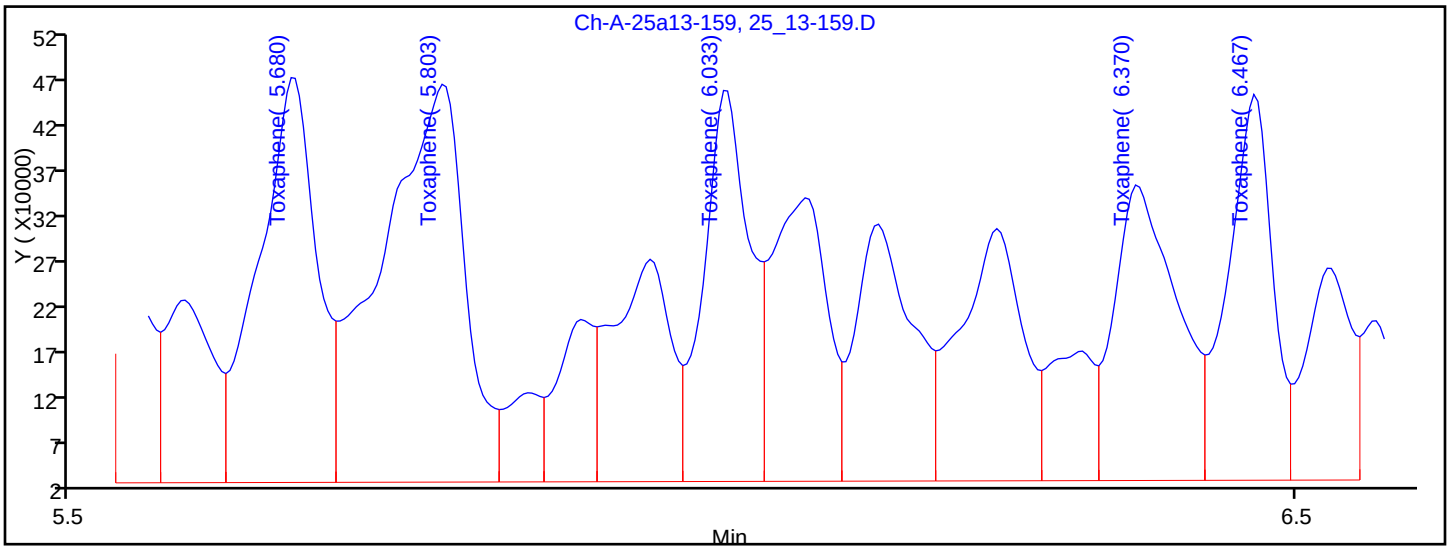
Injection Date:	13-Apr-2017 14:38:26	Instrument ID:	HP6890-25		
Lims ID:	std2				
Client ID:					
Operator ID:	BufTCHROM	ALS Bottle#:	0	Worklist Smp#:	19
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	IS-8081	Limit Group:	GC - 8081B IS ICAL		
Column:		Detector	Ch-A-6A58132		

26 Toxaphene, CAS: 8001-35-2



Processing Integration Results

5.680	Response = 1172019
5.803	Response = 1614977
6.033	Response = 866219
6.370	Response = 780770
6.467	Response = 751405



Manual Integration Results

5.680	Response = 1464656	M
5.803	Response = 2071485	M
6.033	Response = 1120183	M
6.370	Response = 1157723	M
6.467	Response = 1064328	M

Reviewer: RudzG, 17-Apr-2017 11:59:25

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170413-61643.b\25_13-160.D
Lims ID: std3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 13-Apr-2017 14:58:10 ALS Bottle#: 0 Worklist Smp#: 20
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, CN10839003
Operator ID: BufTCHROM Instrument ID: HP6890-25
Sublist: chrom-IS-8081*sub16

Method: \\ChromNA\Buffalo\ChromData\HP6890-25\20170413-61643.b\IS-8081.m
Limit Group: GC - 8081B IS ICAL
Last Update: 17-Apr-2017 13:19:29 Calib Date: 13-Apr-2017 17:35:17
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170413-61643.b\25_13-168.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK001

First Level Reviewer: RudzG Date: 17-Apr-2017 12:00:11

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 44 1-Bromo-2-nitrobenzene							
1	2.033	2.033	0.000	14315780	0.5000	0.5000	
2	2.253	2.253	0.000	10189120	0.5000	0.5000	
						RPD = 0.00	
26 Toxaphene							M
1	5.680	5.680	0.000	631428	0.5000	0.4365	a
1	5.803	5.803	0.000	928600	0.5000	0.4572	a
1	6.033	6.033	0.000	487478	0.5000	0.4536	a
1	6.370	6.370	0.000	502091	0.5000	0.4405	a
1	6.460	6.460	0.000	635060	0.5000	0.5775	a
		Average of Peak Amounts =				0.4730	
2	6.013	6.013	0.000	180262	0.5000	0.4265	M
2	6.567	6.567	0.000	265822	0.5000	0.4459	M
2	6.663	6.663	0.000	525251	0.5000	0.4530	M
2	6.930	6.930	0.000	325526	0.5000	0.4575	M
2	7.460	7.460	0.000	265983	0.5000	0.4536	M
		Average of Peak Amounts =				0.4473	
						RPD = 5.60	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

TOX_CCV_0.5_00098	Amount Added:	1.00	Units: mL	
COPPER_00067	Amount Added:	1.00	Units: Packet	Run Reagent
1-Br2nit 50ng_00006	Amount Added:	10.00	Units: uL	Run Reagent

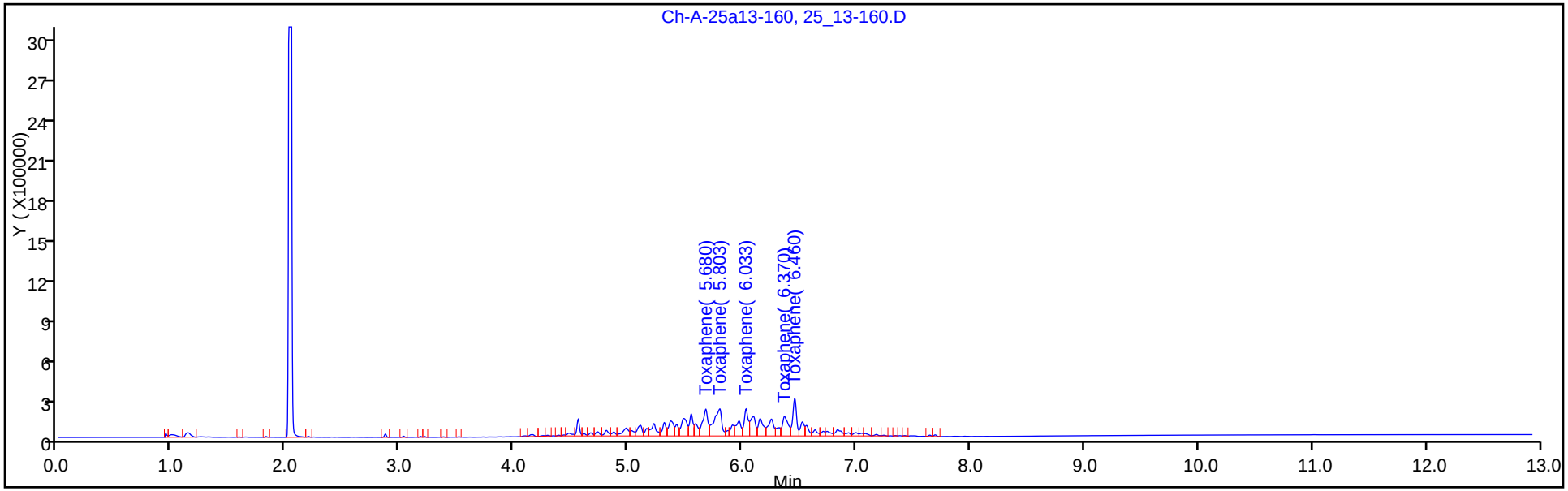
Report Date: 17-Apr-2017 13:19:29 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

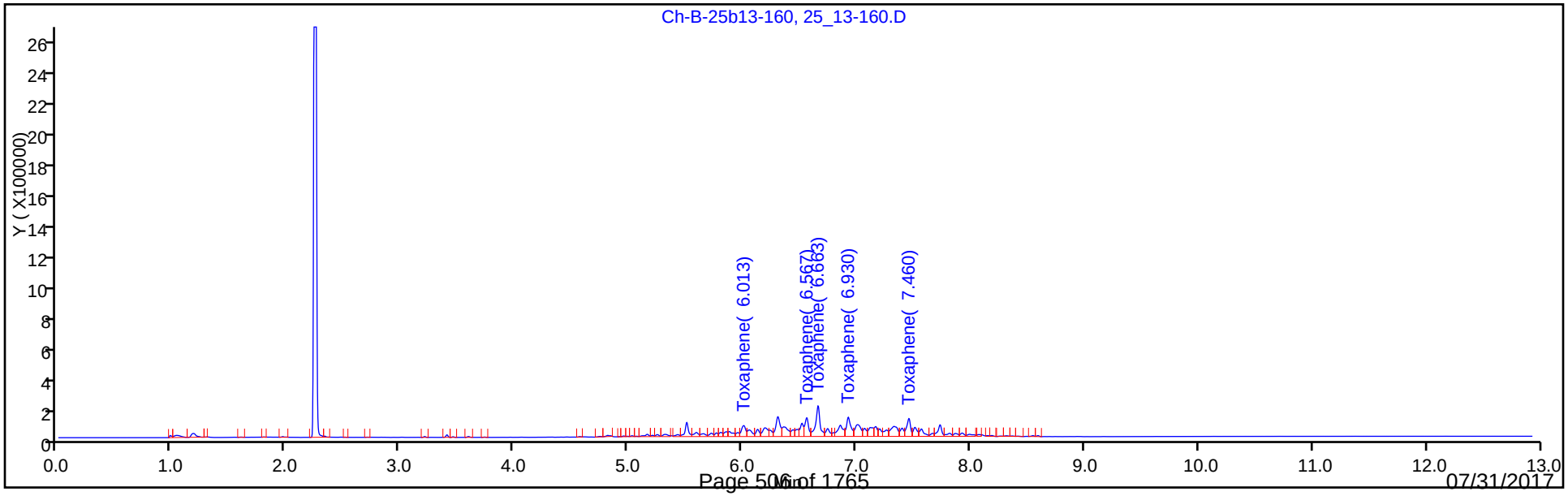
Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170413-61643.b\25_13-160.D

Injection Date:	13-Apr-2017 14:58:10	Instrument ID:	HP6890-25	Operator ID:	BufTCHROM
Lims ID:	std3			Worklist Smp#:	20
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IS-8081	Limit Group:	GC - 8081B IS 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: \\ChromNA\Buffalo\ChromData\HP6890-25\20170413-61643.b\25_13-161.D
Lims ID: std4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 13-Apr-2017 15:17:42 ALS Bottle#: 0 Worklist Smp#: 21
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, CN10839003
Operator ID: BufTCHROM Instrument ID: HP6890-25
Sublist: chrom-IS-8081*sub16

Method: \\ChromNA\Buffalo\ChromData\HP6890-25\20170413-61643.b\IS-8081.m
Limit Group: GC - 8081B IS ICAL
Last Update: 17-Apr-2017 13:19:31 Calib Date: 13-Apr-2017 17:35:17
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170413-61643.b\25_13-168.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK001

First Level Reviewer: salversonj Date: 14-Apr-2017 14:53:21

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 44 1-Bromo-2-nitrobenzene							
1	2.040	2.033	0.007	14153249	0.5000	0.5000	
2	2.253	2.253	0.000	10068508	0.5000	0.5000	
						RPD = 0.00	
26 Toxaphene							M
1	5.687	5.680	0.007	124125	0.1000	0.0968	M
1	5.807	5.803	0.004	167303	0.1000	0.0966	M
1	6.037	6.033	0.004	84509	0.1000	0.0931	M
1	6.373	6.370	0.003	88103	0.1000	0.0924	M
1	6.470	6.460	0.010	86718	0.1000	0.0887	M
		Average of Peak Amounts =				0.0935	
2	6.013	6.013	0.000	37153	0.1000	0.0981	M
2	6.567	6.567	0.000	50903	0.1000	0.0963	M
2	6.667	6.663	0.004	96100	0.1000	0.0947	M
2	6.930	6.930	0.000	62310	0.1000	0.0963	M
2	7.463	7.460	0.003	47592	0.1000	0.0943	M
		Average of Peak Amounts =				0.0959	
						RPD = 2.54	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

Tox 0.1ng_00013	Amount Added: 1.00	Units: mL	
COPPER_00067	Amount Added: 1.00	Units: Packet	Run Reagent
1-Br2nit 50ng_00006	Amount Added: 10.00	Units: uL	Run Reagent

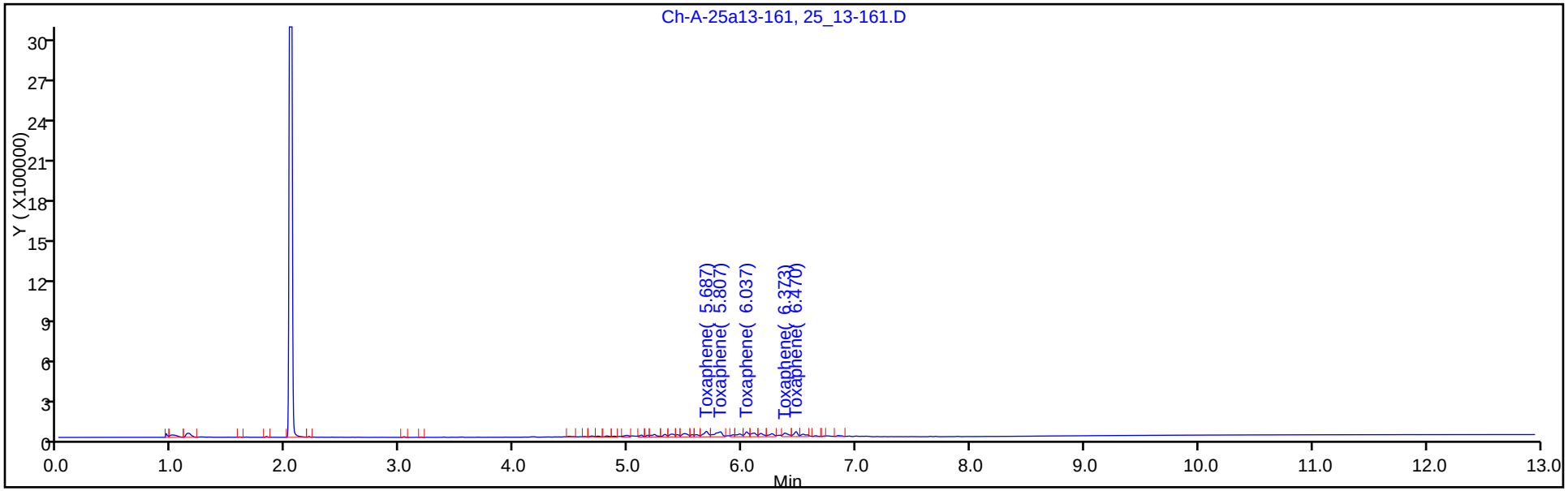
Report Date: 17-Apr-2017 13:19:32 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

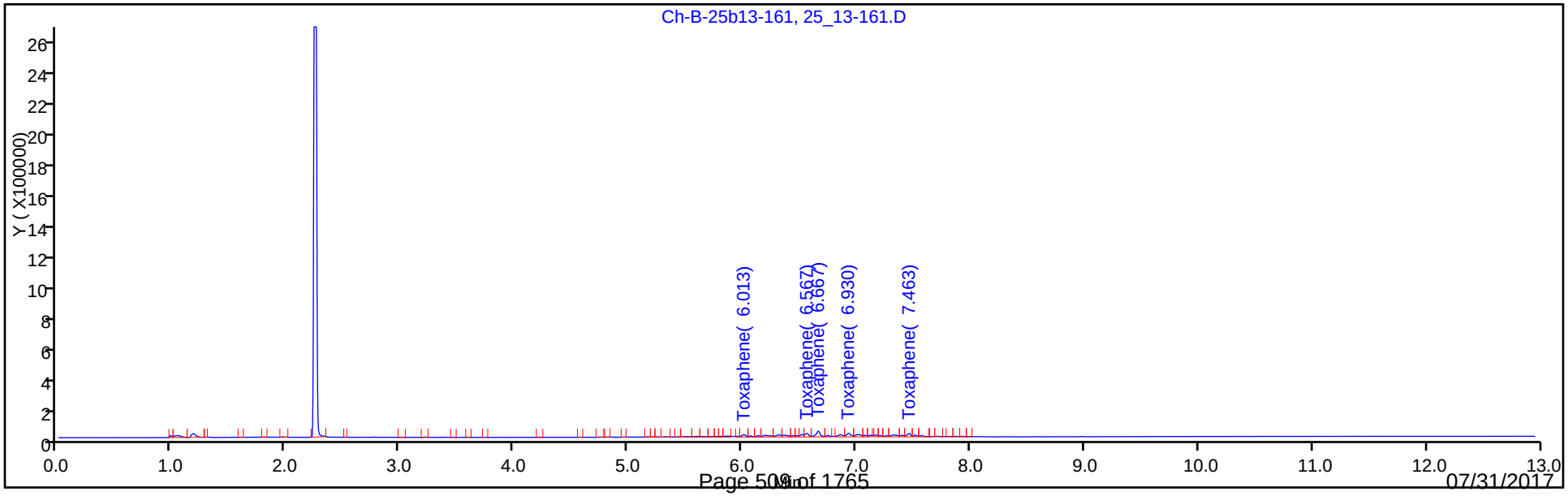
Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170413-61643.b\25_13-161.D

Injection Date:	13-Apr-2017 15:17:42	Instrument ID:	HP6890-25	Operator ID:	BufTCHROM
Lims ID:	std4			Worklist Smp#:	21
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IS-8081	Limit Group:	GC - 8081B IS ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



Report Date: 17-Apr-2017 13:19:32 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170413-61643.b\25_13-161.D

Injection Date: 13-Apr-2017 15:17:42 Instrument ID: HP6890-25

Lims ID: std4

Client ID:

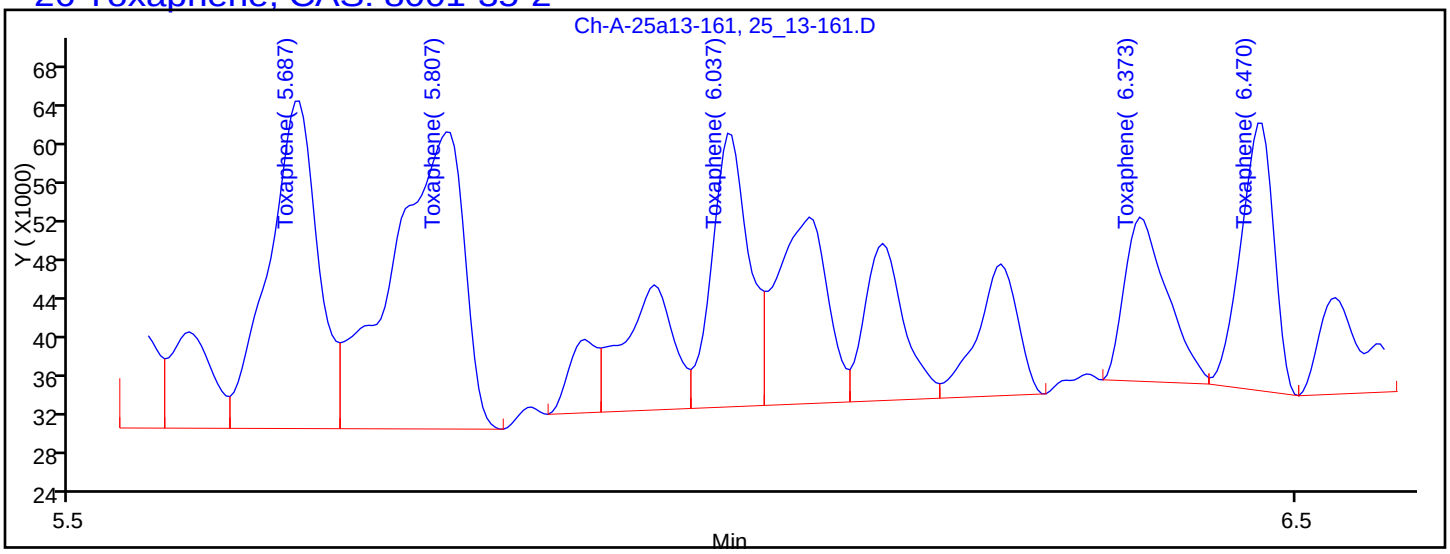
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 21

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: IS-8081 Limit Group: GC - 8081B IS ICAL

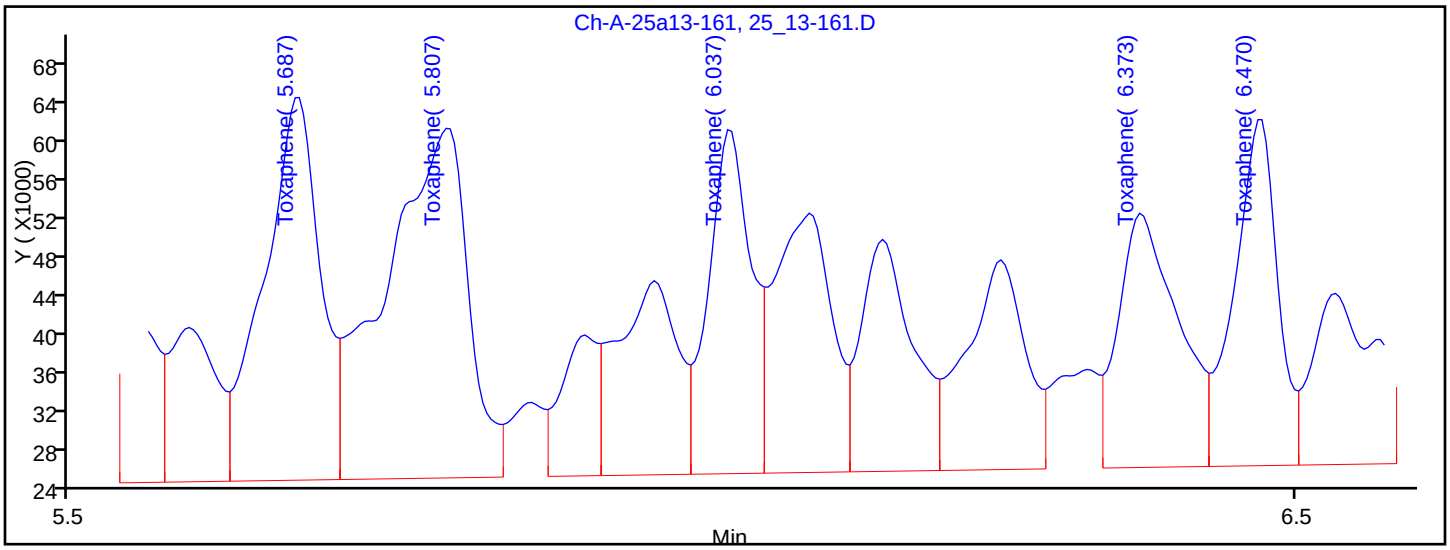
Column: Detector Ch-A-6A58132

26 Toxaphene, CAS: 8001-35-2



Processing Integration Results

5.687	Response = 93083
5.807	Response = 123347
6.037	Response = 58398
6.373	Response = 40627
6.470	Response = 50757



Manual Integration Results

5.687	Response = 124125	M
5.807	Response = 167303	M
6.037	Response = 84509	M
6.373	Response = 88103	M
6.470	Response = 86718	M

Reviewer: RudzG, 17-Apr-2017 12:07:27

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170413-61643.b\25_13-162.D
Lims ID: std5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 13-Apr-2017 15:37:24 ALS Bottle#: 0 Worklist Smp#: 22
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, CN10839003
Operator ID: BufTCHROM Instrument ID: HP6890-25
Sublist: chrom-IS-8081*sub16

Method: \\ChromNA\Buffalo\ChromData\HP6890-25\20170413-61643.b\IS-8081.m
Limit Group: GC - 8081B IS ICAL
Last Update: 17-Apr-2017 13:19:34 Calib Date: 13-Apr-2017 17:35:17
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170413-61643.b\25_13-168.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK001

First Level Reviewer: salversonj Date: 14-Apr-2017 14:09:28

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 44 1-Bromo-2-nitrobenzene							
1	2.040	2.033	0.007	14249738	0.5000	0.5000	
2	2.257	2.253	0.004	10161889	0.5000	0.5000	
						RPD = 0.00	
26 Toxaphene							M
1	5.687	5.680	0.007	62848	0.0500	0.0548	M
1	5.813	5.803	0.010	77888	0.0500	0.0534	M
1	6.040	6.033	0.007	42823	0.0500	0.0550	M
1	6.377	6.370	0.007	46515	0.0500	0.0567	M
1	6.473	6.460	0.013	43710	0.0500	0.0496	M
		Average of Peak Amounts =				0.0539	
2	6.017	6.013	0.004	18892	0.0500	0.0551	M
2	6.570	6.567	0.003	26211	0.0500	0.0551	M
2	6.670	6.663	0.007	49816	0.0500	0.0551	M
2	6.933	6.930	0.003	32225	0.0500	0.0540	M
2	7.467	7.460	0.007	24368	0.0500	0.0552	M
		Average of Peak Amounts =				0.0549	
						RPD = 1.81	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

Tox 0.05ng_00012	Amount Added: 1.00	Units: mL	
COPPER_00067	Amount Added: 1.00	Units: Packet	Run Reagent
1-Br2nit 50ng_00006	Amount Added: 10.00	Units: uL	Run Reagent

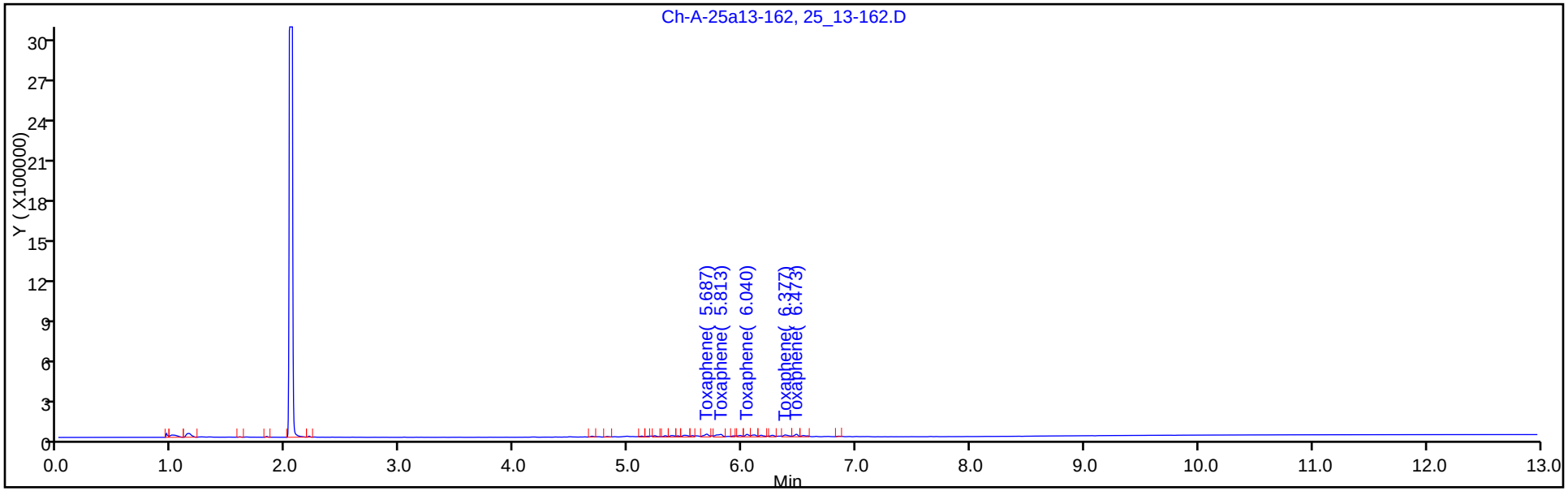
Report Date: 17-Apr-2017 13:19:34 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

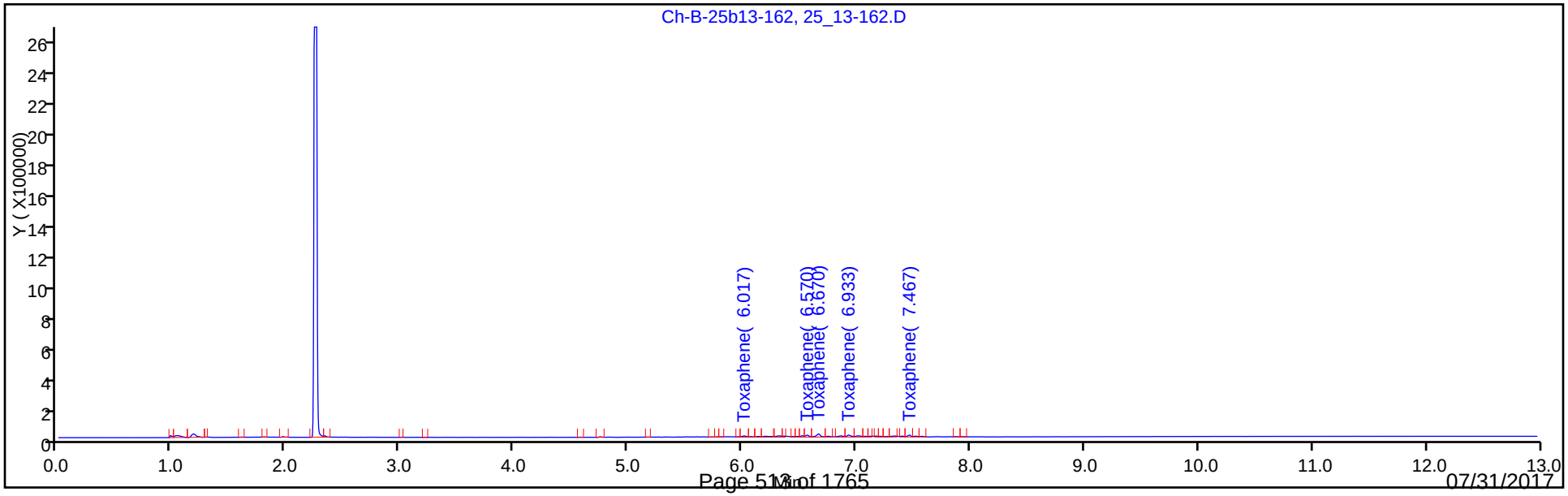
Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170413-61643.b\25_13-162.D

Injection Date:	13-Apr-2017 15:37:24	Instrument ID:	HP6890-25	Operator ID:	BufTCHROM
Lims ID:	std5			Worklist Smp#:	22
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IS-8081	Limit Group:	GC - 8081B IS ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



Report Date: 17-Apr-2017 13:19:34 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170413-61643.b\25_13-162.D

Injection Date: 13-Apr-2017 15:37:24 Instrument ID: HP6890-25

Lims ID: std5

Client ID:

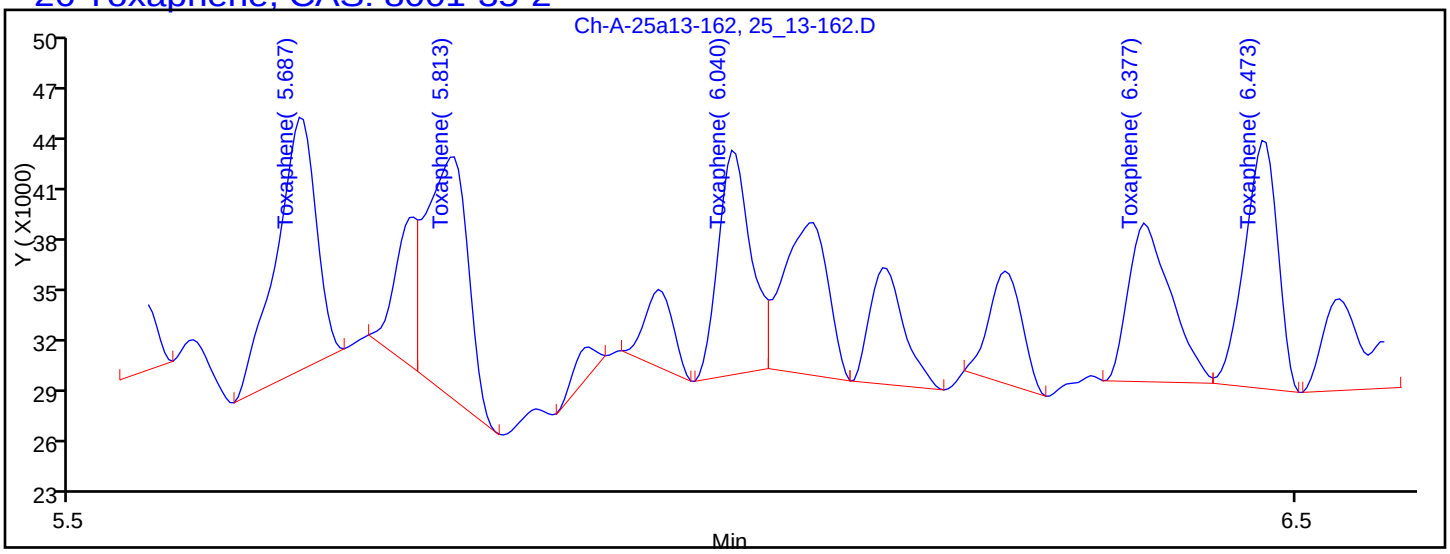
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 22

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: IS-8081 Limit Group: GC - 8081B IS ICAL

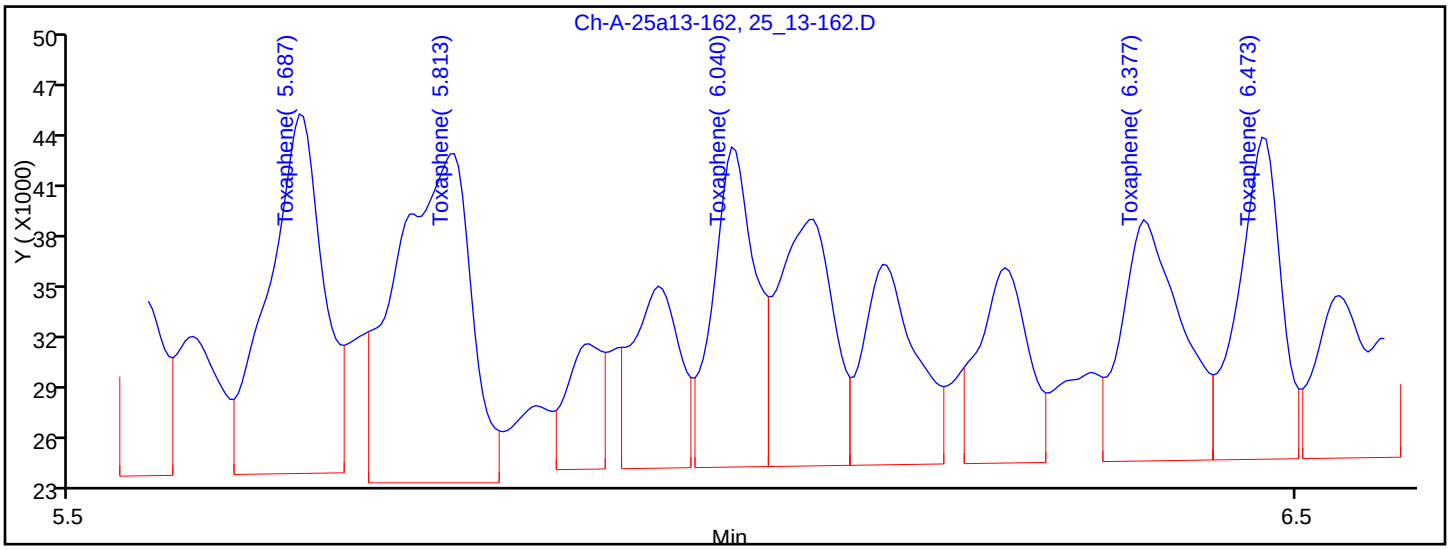
Column: Detector Ch-A-6A58132

26 Toxaphene, CAS: 8001-35-2



Processing Integration Results

5.687	Response = 32201
5.813	Response = 31335
6.040	Response = 23538
6.377	Response = 21646
6.473	Response = 26075



Manual Integration Results

5.687	Response = 62848	M
5.813	Response = 77888	M
6.040	Response = 42823	M
6.377	Response = 46515	M
6.473	Response = 43710	M

Reviewer: RudzG, 17-Apr-2017 12:07:59

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

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

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1 Analy Batch No.: 351826

SDG No.:

Instrument ID: HP6890-25 GC Column: RTX-CLPII ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/13/2017 14:18 Calibration End Date: 04/13/2017 15:37 Calibration ID: 30350

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD5 480-351826/22	25_13-162.D
Level 2	STD4 480-351826/21	25_13-161.D
Level 3	STD3 480-351826/20	25_13-160.D
Level 4	STD2 480-351826/19	25_13-159.D
Level 5	STD1 480-351826/18	25_13-158.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Toxaphene Peak 1	0.0186	0.0185	0.0177	0.0221	0.0214	Lin1	0	0.0213							0.9940		0.9900
Toxaphene Peak 2	0.0258	0.0253	0.0261	0.0304	0.0304	Lin1	0	0.0301							0.9970		0.9900
Toxaphene Peak 3	0.0490	0.0477	0.0516	0.0604	0.0582	Lin1	-0.001	0.0586							0.9970		0.9900
Toxaphene Peak 4	0.0317	0.0309	0.0319	0.0367	0.0355	Lin1	0	0.0357							0.9980		0.9900
Toxaphene Peak 5	0.0240	0.0236	0.0261	0.0306	0.0295	Lin1	0	0.0298							0.9970		0.9900

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

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

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1 Analy Batch No.: 351826

SDG No.:

Instrument ID: HP6890-25 GC Column: RTX-CLPII ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/13/2017 14:18 Calibration End Date: 04/13/2017 15:37 Calibration ID: 30350

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD5 480-351826/22	25_13-162.D
Level 2	STD4 480-351826/21	25_13-161.D
Level 3	STD3 480-351826/20	25_13-160.D
Level 4	STD2 480-351826/19	25_13-159.D
Level 5	STD1 480-351826/18	25_13-158.D

ANALYTE	IS REF	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	BNB	Lin1	18892	37153	180262	421431	641482	0.0500	0.100	0.500	1.00	1.50
Toxaphene Peak 2	BNB	Lin1	26211	50903	265822	578537	910515	0.0500	0.100	0.500	1.00	1.50
Toxaphene Peak 3	BNB	Lin1	49816	96100	525251	1149320	1742088	0.0500	0.100	0.500	1.00	1.50
Toxaphene Peak 4	BNB	Lin1	32225	62310	325526	699382	1061454	0.0500	0.100	0.500	1.00	1.50
Toxaphene Peak 5	BNB	Lin1	24368	47592	265983	582401	883465	0.0500	0.100	0.500	1.00	1.50

Curve Type Legend:
Lin1 = Linear 1/conc ISTD

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170413-61643.b\25_13-158.D
Lims ID: std1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 13-Apr-2017 14:18:52 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#, CN10839003
Operator ID: BufTCHROM Instrument ID: HP6890-25
Sublist: chrom-IS-8081*sub16

Method: \\ChromNA\Buffalo\ChromData\HP6890-25\20170413-61643.b\IS-8081.m
Limit Group: GC - 8081B IS ICAL
Last Update: 17-Apr-2017 13:19:24 Calib Date: 13-Apr-2017 17:35:17
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170413-61643.b\25_13-168.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK001

First Level Reviewer: NearyM Date: 13-Apr-2017 14:39:45

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 44 1-Bromo-2-nitrobenzene							
1	2.040	2.043	-0.003	14013213	0.5000	0.5000	
2	2.257	2.260	-0.003	9972056	0.5000	0.5000	
						RPD = 0.00	
26 Toxaphene							M
1	5.683	5.680	0.003	2165815	1.50	1.50	
1	5.807	5.803	0.004	3007432	1.50	1.48	
1	6.037	6.033	0.004	1573764	1.50	1.46	
1	6.373	6.370	0.003	1722613	1.50	1.50	
1	6.470	6.460	0.010	1532368	1.50	1.41	
		Average of Peak Amounts =				1.47	
2	6.013	6.013	0.000	641482	1.50	1.52	M
2	6.567	6.567	0.000	910515	1.50	1.53	M
2	6.667	6.663	0.004	1742088	1.50	1.50	M
2	6.930	6.930	0.000	1061454	1.50	1.50	M
2	7.463	7.460	0.003	883465	1.50	1.50	M
		Average of Peak Amounts =				1.51	
						RPD = 2.94	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

Tox 1.5ng_00011	Amount Added: 1.00	Units: mL	
COPPER_00067	Amount Added: 1.00	Units: Packet	Run Reagent
1-Br2nit 50ng_00006	Amount Added: 10.00	Units: uL	Run Reagent

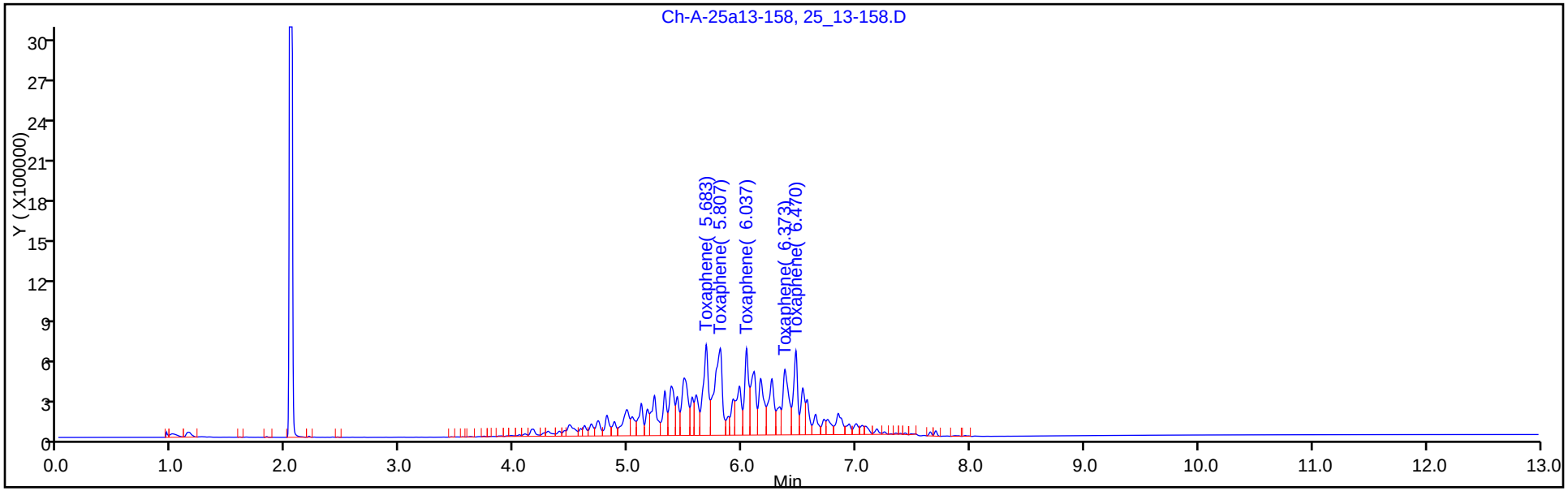
Report Date: 17-Apr-2017 13:19:25 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

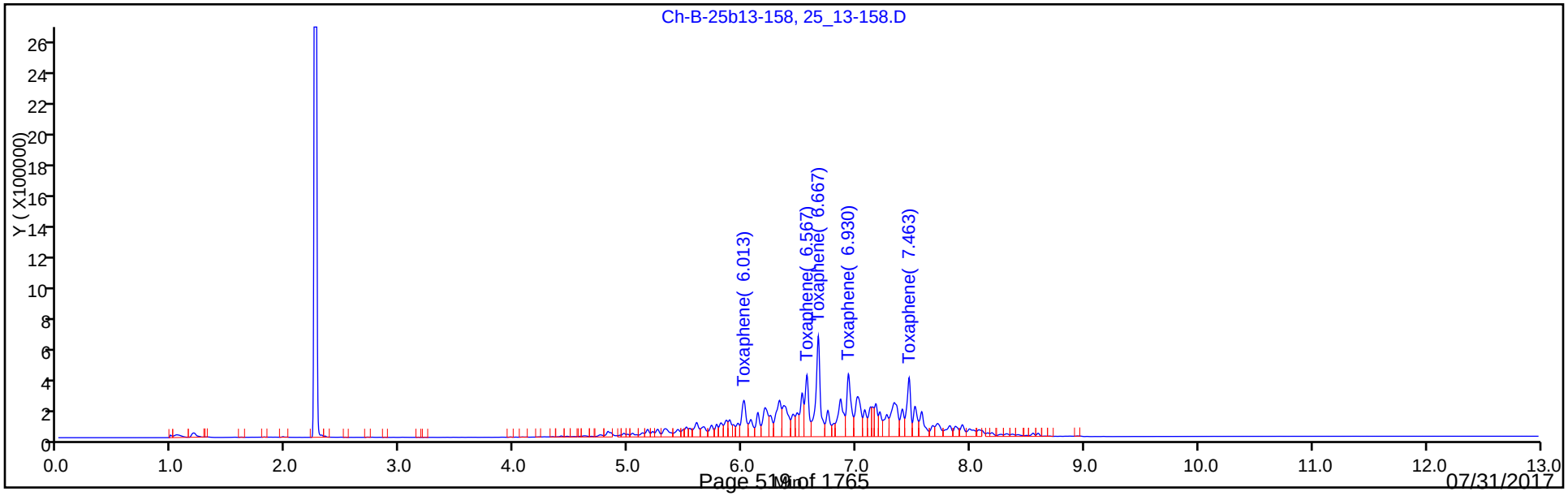
Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170413-61643.b\25_13-158.D

Injection Date:	13-Apr-2017 14:18:52	Instrument ID:	HP6890-25	Operator ID:	BufTCHROM
Lims ID:	std1			Worklist Smp#:	18
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IS-8081	Limit Group:	GC - 8081B IS ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



Report Date: 17-Apr-2017 13:19:25 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170413-61643.b\25_13-158.D

Injection Date: 13-Apr-2017 14:18:52 Instrument ID: HP6890-25

Lims ID: std1

Client ID:

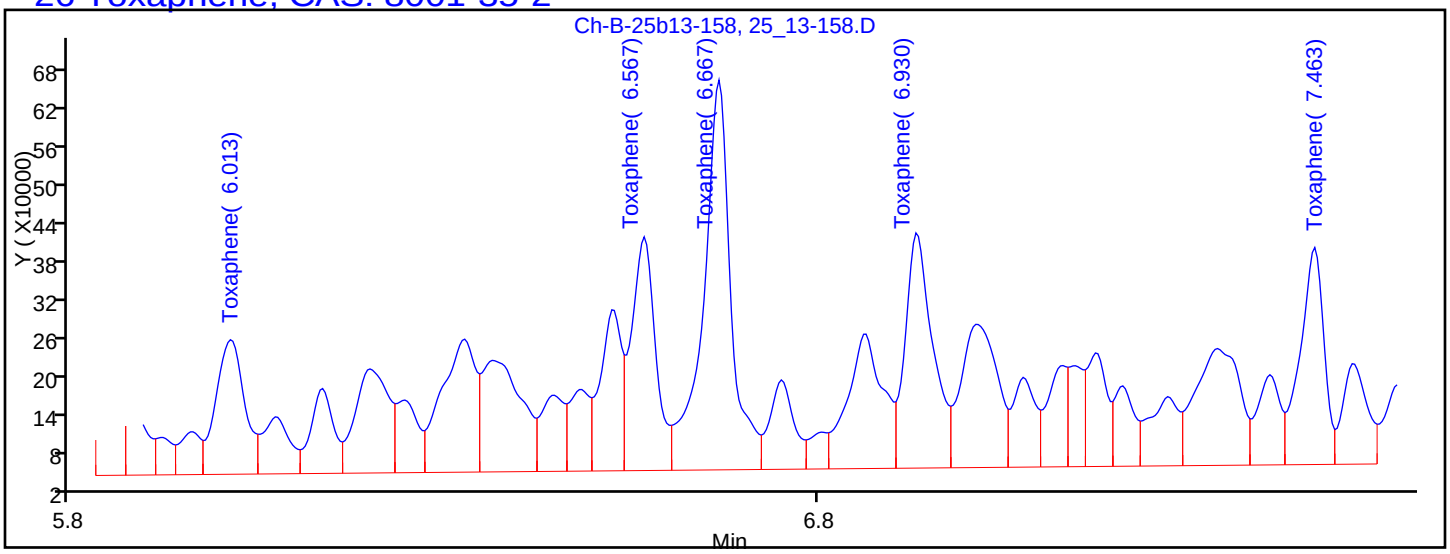
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 18

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: IS-8081 Limit Group: GC - 8081B IS ICAL

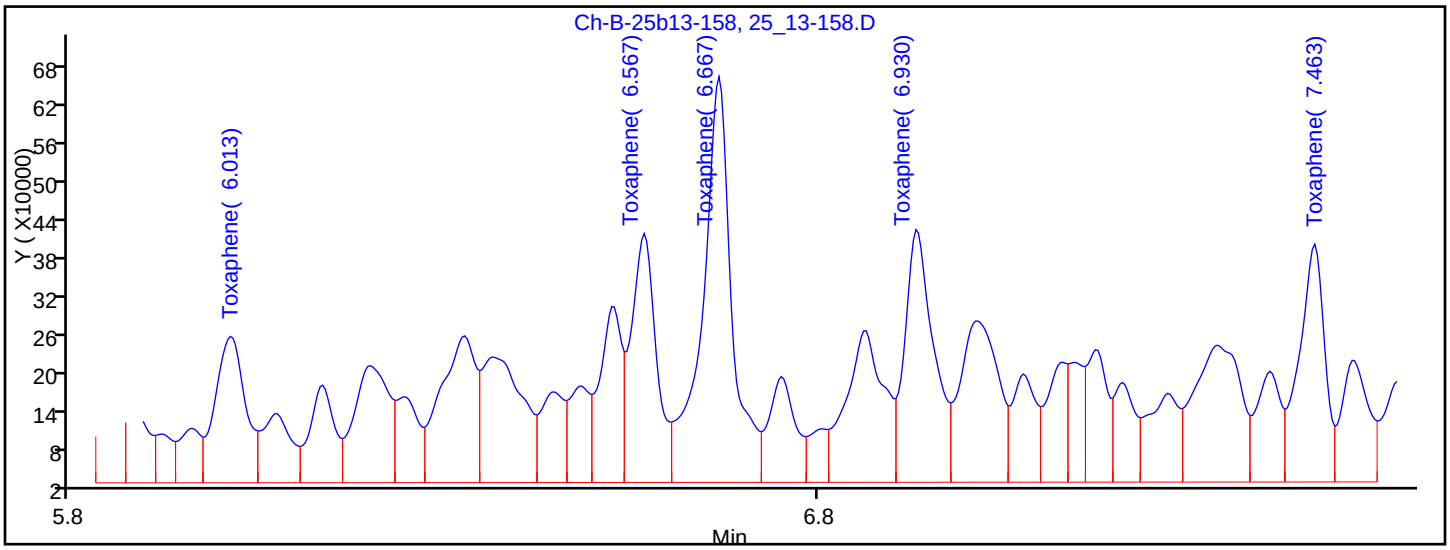
Column: Detector Ch-B-6b58132

26 Toxaphene, CAS: 8001-35-2



Processing Integration Results

6.013	Response = 559970
6.567	Response = 819721
6.667	Response = 1563712
6.930	Response = 940747
7.463	Response = 753866



Manual Integration Results

6.013	Response = 641482	M
6.567	Response = 910515	M
6.667	Response = 1742088	M
6.930	Response = 1061454	M
7.463	Response = 883465	M

Reviewer: RudzG, 17-Apr-2017 11:59:10

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170413-61643.b\25_13-159.D
Lims ID: std2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 13-Apr-2017 14:38:26 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#, CN10839003
Operator ID: BufTCHROM Instrument ID: HP6890-25
Sublist: chrom-IS-8081*sub16

Method: \\ChromNA\Buffalo\ChromData\HP6890-25\20170413-61643.b\IS-8081.m
Limit Group: GC - 8081B IS ICAL
Last Update: 17-Apr-2017 13:19:27 Calib Date: 13-Apr-2017 17:35:17
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170413-61643.b\25_13-168.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK001

First Level Reviewer: NearyM Date: 17-Apr-2017 07:13:01

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 44 1-Bromo-2-nitrobenzene							
1	2.037	2.043	-0.006	13396042	0.5000	0.5000	
2	2.253	2.260	-0.007	9516501	0.5000	0.5000	
						RPD = 0.00	
26 Toxaphene							M
1	5.680	5.680	0.000	1464656	1.00	1.06	M
1	5.803	5.803	0.000	2071485	1.00	1.07	M
1	6.033	6.033	0.000	1120183	1.00	1.09	M
1	6.370	6.370	0.000	1157723	1.00	1.06	M
1	6.467	6.460	0.007	1064328	1.00	1.03	M
		Average of Peak Amounts =				1.06	
2	6.013	6.013	0.000	421431	1.00	1.05	M
2	6.563	6.567	-0.004	578537	1.00	1.02	M
2	6.663	6.663	0.000	1149320	1.00	1.04	M
2	6.930	6.930	0.000	699382	1.00	1.04	M
2	7.460	7.460	0.000	582401	1.00	1.04	M
		Average of Peak Amounts =				1.04	
						RPD = 2.04	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

Tox 1.0ng_00010	Amount Added: 1.00	Units: mL	
COPPER_00067	Amount Added: 1.00	Units: Packet	Run Reagent
1-Br2nit 50ng_00006	Amount Added: 10.00	Units: uL	Run Reagent

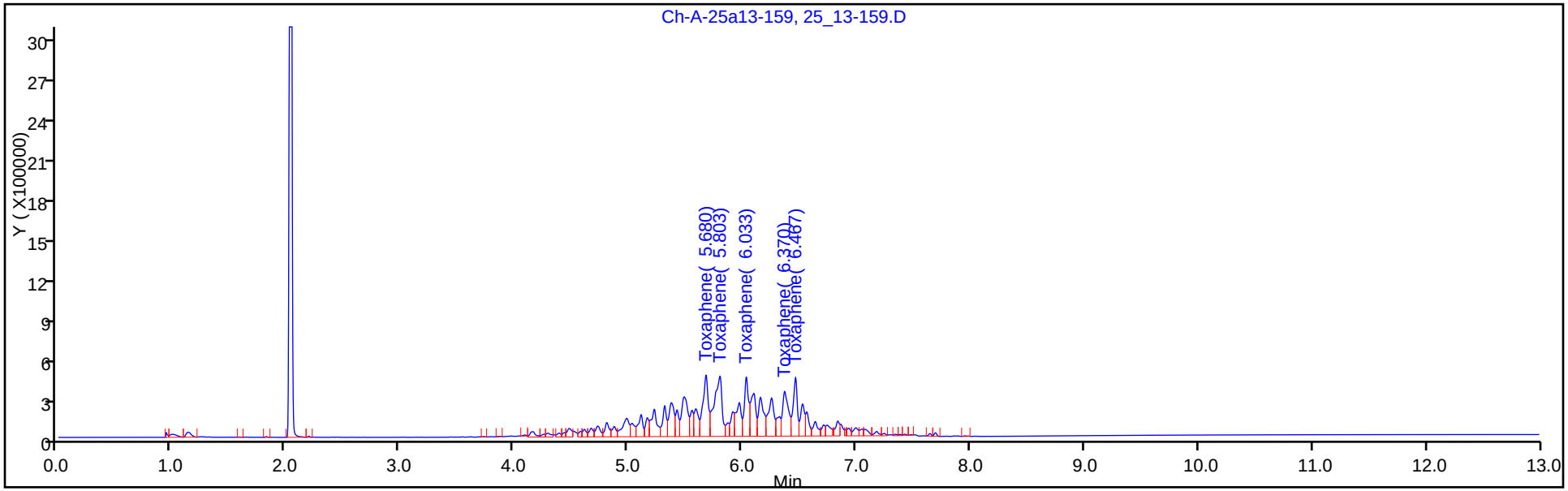
Report Date: 17-Apr-2017 13:19:27 Chrom Revision: 2.2 22-Mar-2017 08:36:42

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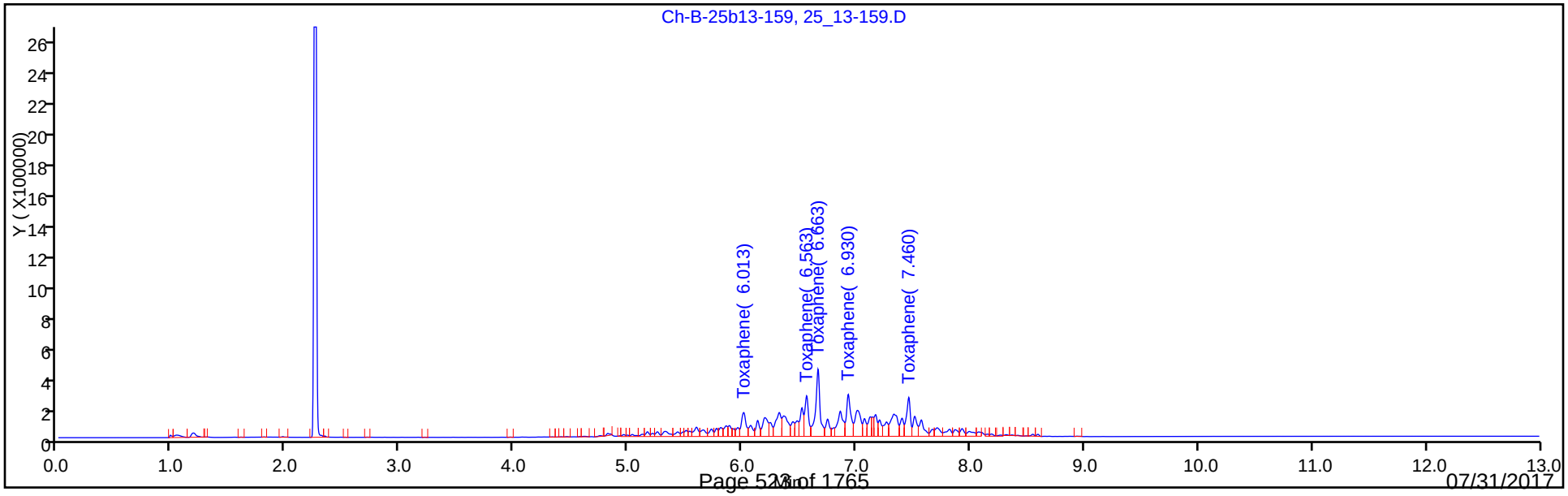
Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170413-61643.b\25_13-159.D

Injection Date:	13-Apr-2017 14:38:26	Instrument ID:	HP6890-25	Operator ID:	BufTCHROM
Lims ID:	std2			Worklist Smp#:	19
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IS-8081	Limit Group:	GC - 8081B IS ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



Report Date: 17-Apr-2017 13:19:27 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170413-61643.b\25_13-159.D

Injection Date: 13-Apr-2017 14:38:26 Instrument ID: HP6890-25

Lims ID: std2

Client ID:

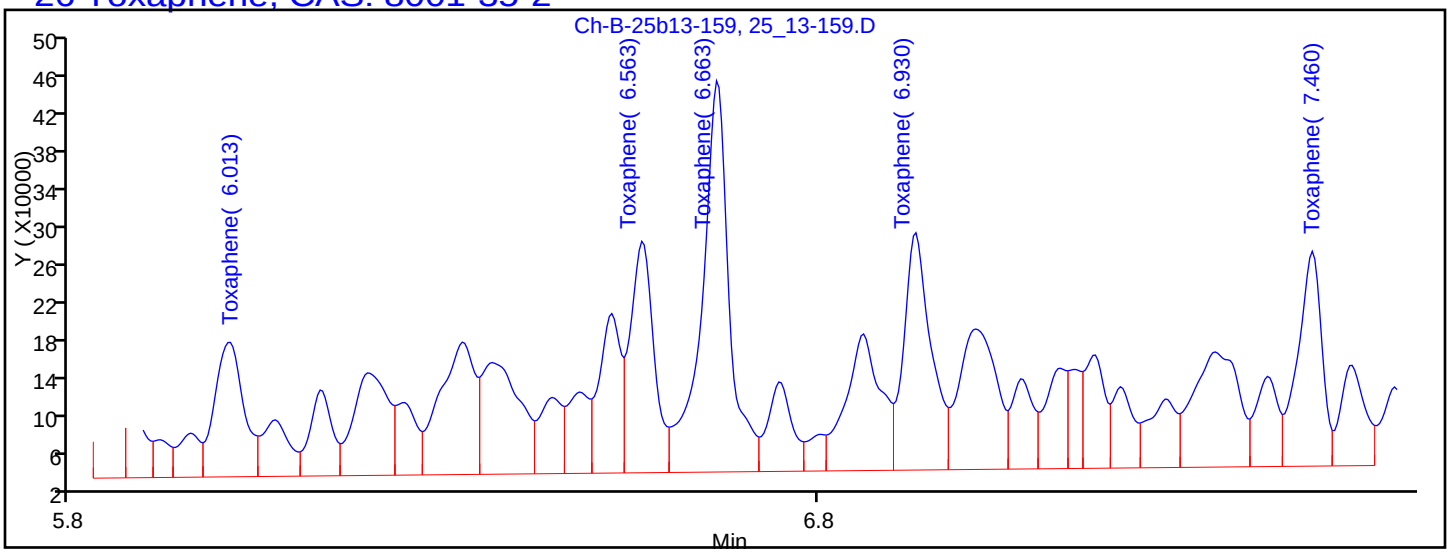
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 19

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: IS-8081 Limit Group: GC - 8081B IS ICAL

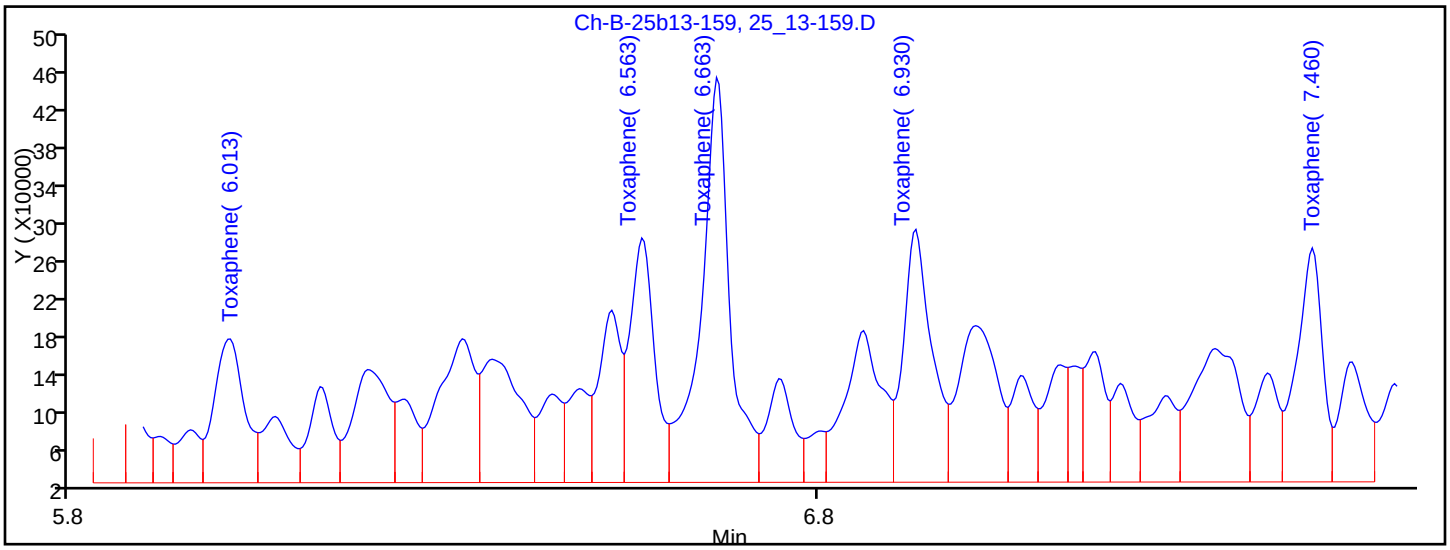
Column: Detector Ch-B-6b58132

26 Toxaphene, CAS: 8001-35-2



Processing Integration Results

6.013	Response = 378704
6.563	Response = 529408
6.663	Response = 1046479
6.930	Response = 627928
7.460	Response = 502829



Manual Integration Results

6.013	Response = 421431	M
6.563	Response = 578537	M
6.663	Response = 1149320	M
6.930	Response = 699382	M
7.460	Response = 582401	M

Reviewer: RudzG, 17-Apr-2017 11:59:29

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170413-61643.b\25_13-160.D
Lims ID: std3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 13-Apr-2017 14:58:10 ALS Bottle#: 0 Worklist Smp#: 20
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, CN10839003
Operator ID: BufTCHROM Instrument ID: HP6890-25
Sublist: chrom-IS-8081*sub16

Method: \\ChromNA\Buffalo\ChromData\HP6890-25\20170413-61643.b\IS-8081.m
Limit Group: GC - 8081B IS ICAL
Last Update: 17-Apr-2017 13:19:29 Calib Date: 13-Apr-2017 17:35:17
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170413-61643.b\25_13-168.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK001

First Level Reviewer: RudzG Date: 17-Apr-2017 12:00:11

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 44 1-Bromo-2-nitrobenzene							
1	2.033	2.033	0.000	14315780	0.5000	0.5000	
2	2.253	2.253	0.000	10189120	0.5000	0.5000	
						RPD = 0.00	
26 Toxaphene							M
1	5.680	5.680	0.000	631428	0.5000	0.4365	a
1	5.803	5.803	0.000	928600	0.5000	0.4572	a
1	6.033	6.033	0.000	487478	0.5000	0.4536	a
1	6.370	6.370	0.000	502091	0.5000	0.4405	a
1	6.460	6.460	0.000	635060	0.5000	0.5775	a
		Average of Peak Amounts =				0.4730	
2	6.013	6.013	0.000	180262	0.5000	0.4265	M
2	6.567	6.567	0.000	265822	0.5000	0.4459	M
2	6.663	6.663	0.000	525251	0.5000	0.4530	M
2	6.930	6.930	0.000	325526	0.5000	0.4575	M
2	7.460	7.460	0.000	265983	0.5000	0.4536	M
		Average of Peak Amounts =				0.4473	
						RPD = 5.60	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

TOX_CCV_0.5_00098	Amount Added:	1.00	Units: mL	
COPPER_00067	Amount Added:	1.00	Units: Packet	Run Reagent
1-Br2nit 50ng_00006	Amount Added:	10.00	Units: uL	Run Reagent

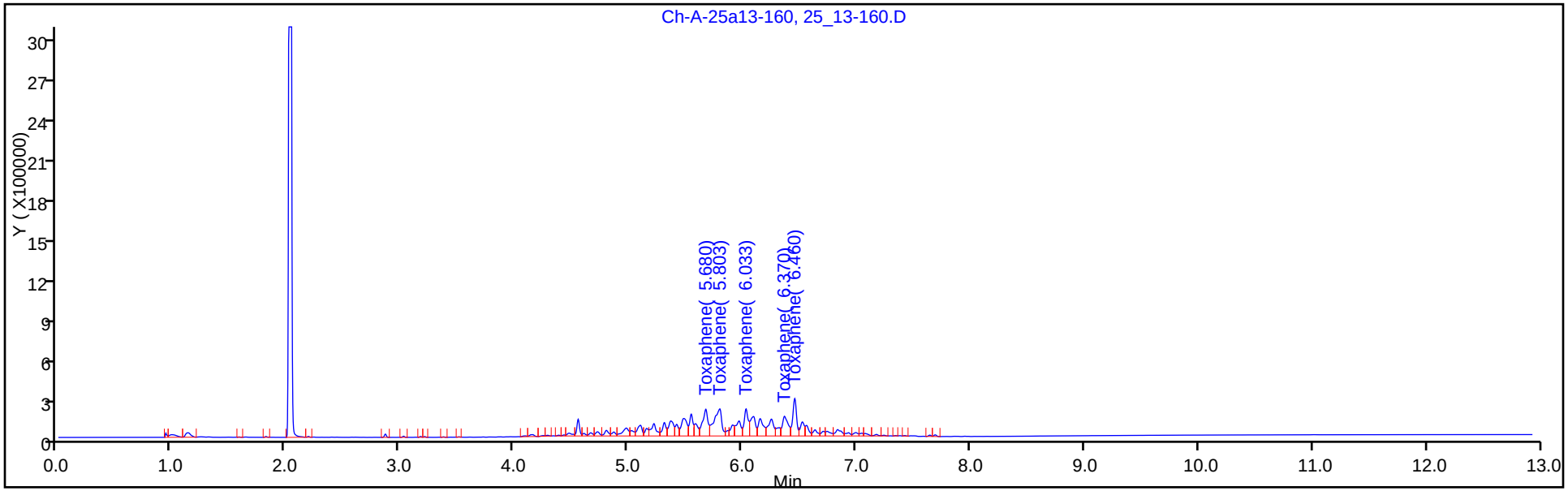
Report Date: 17-Apr-2017 13:19:30 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

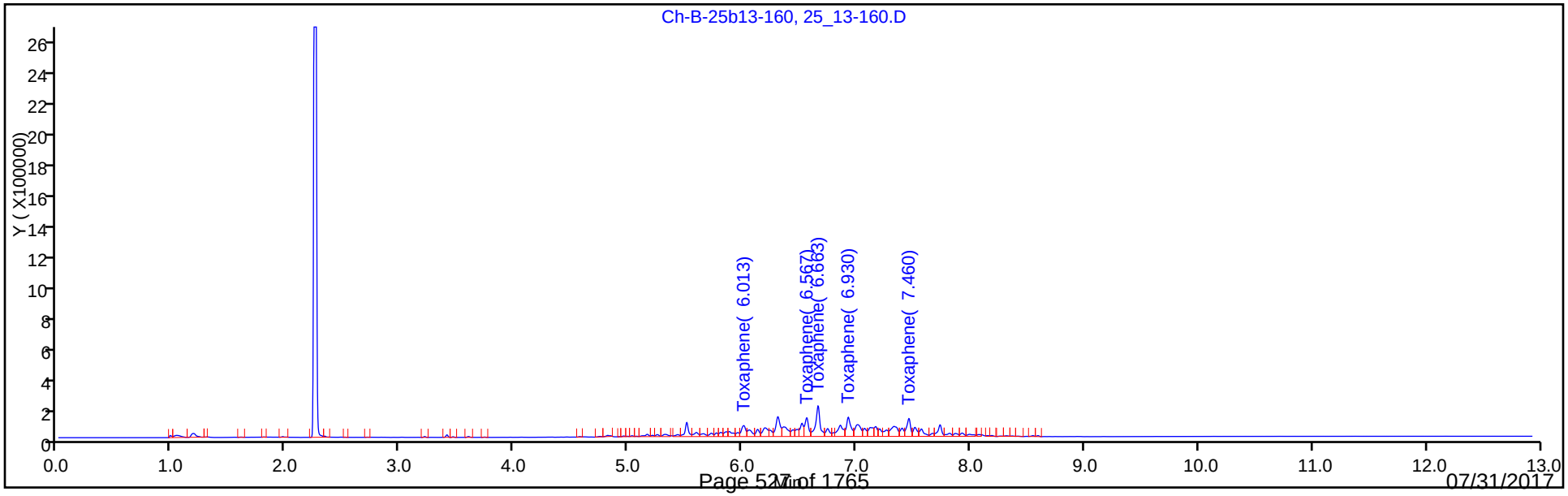
Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170413-61643.b\25_13-160.D

Injection Date:	13-Apr-2017 14:58:10	Instrument ID:	HP6890-25	Operator ID:	BufTCHROM
Lims ID:	std3			Worklist Smp#:	20
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IS-8081	Limit Group:	GC - 8081B IS ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



Report Date: 17-Apr-2017 13:19:30 Chrom Revision: 2.2 22-Mar-2017 08:36:42

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Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170413-61643.b\25_13-160.D

Injection Date: 13-Apr-2017 14:58:10 Instrument ID: HP6890-25

Lims ID: std3

Client ID:

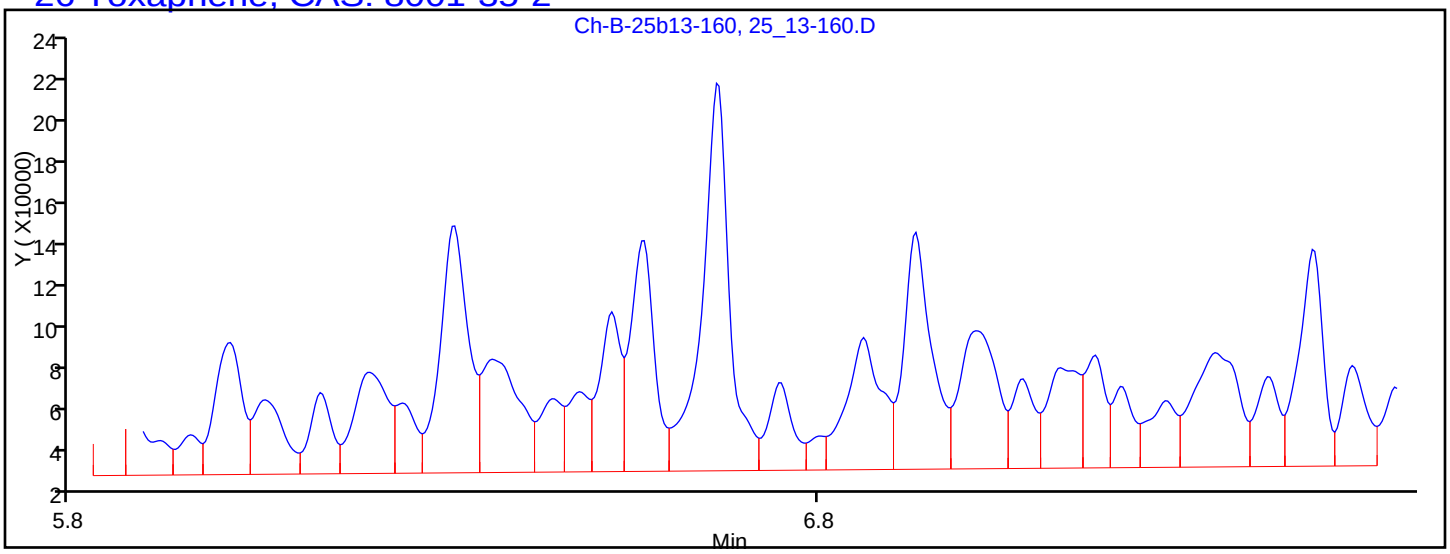
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 20

Injection Vol: 1.0 ul Dil. Factor: 1.0000

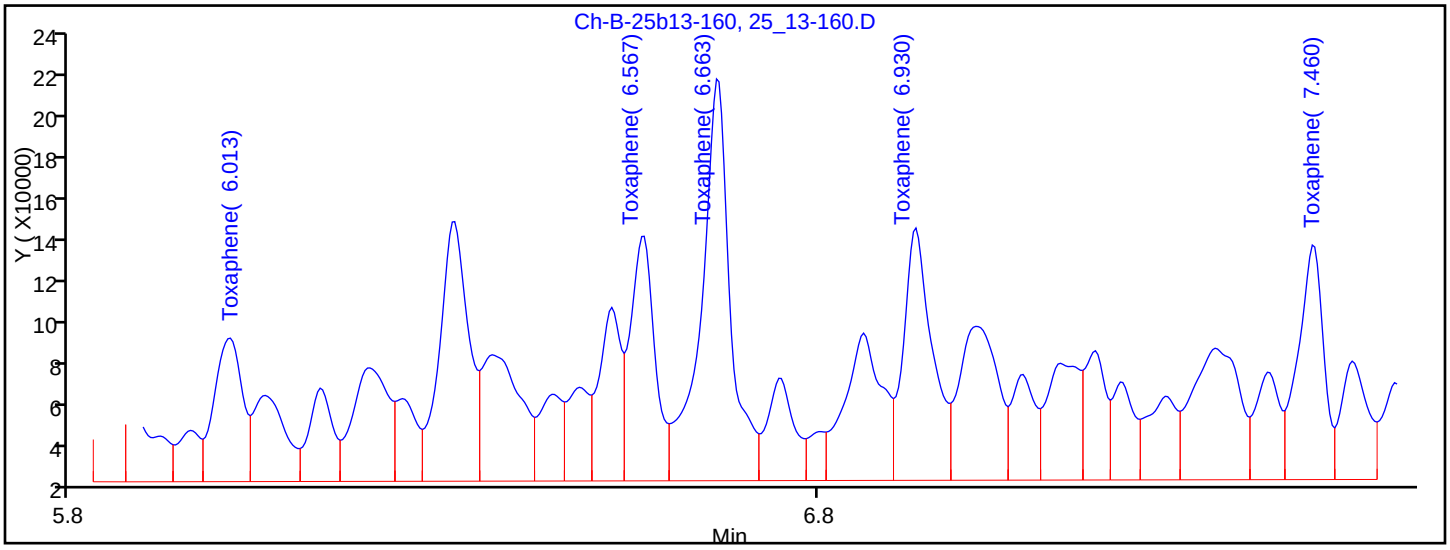
Method: IS-8081 Limit Group: GC - 8081B IS ICAL

Column: Detector Ch-B-6b58132

26 Toxaphene, CAS: 8001-35-2



Processing Integration Results



Manual Integration Results

6.013	Response = 180262	M
6.567	Response = 265822	M
6.663	Response = 525251	M
6.930	Response = 325526	M
7.460	Response = 265983	M

Reviewer: RudzG, 17-Apr-2017 12:07:02

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170413-61643.b\25_13-161.D
Lims ID: std4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 13-Apr-2017 15:17:42 ALS Bottle#: 0 Worklist Smp#: 21
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, CN10839003
Operator ID: BufTCHROM Instrument ID: HP6890-25
Sublist: chrom-IS-8081*sub16

Method: \\ChromNA\Buffalo\ChromData\HP6890-25\20170413-61643.b\IS-8081.m
Limit Group: GC - 8081B IS ICAL
Last Update: 17-Apr-2017 13:19:31 Calib Date: 13-Apr-2017 17:35:17
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170413-61643.b\25_13-168.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK001

First Level Reviewer: salversonj Date: 14-Apr-2017 14:53:21

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 44 1-Bromo-2-nitrobenzene							
1	2.040	2.033	0.007	14153249	0.5000	0.5000	
2	2.253	2.253	0.000	10068508	0.5000	0.5000	
						RPD = 0.00	
26 Toxaphene							M
1	5.687	5.680	0.007	124125	0.1000	0.0968	M
1	5.807	5.803	0.004	167303	0.1000	0.0966	M
1	6.037	6.033	0.004	84509	0.1000	0.0931	M
1	6.373	6.370	0.003	88103	0.1000	0.0924	M
1	6.470	6.460	0.010	86718	0.1000	0.0887	M
		Average of Peak Amounts =				0.0935	
2	6.013	6.013	0.000	37153	0.1000	0.0981	M
2	6.567	6.567	0.000	50903	0.1000	0.0963	M
2	6.667	6.663	0.004	96100	0.1000	0.0947	M
2	6.930	6.930	0.000	62310	0.1000	0.0963	M
2	7.463	7.460	0.003	47592	0.1000	0.0943	M
		Average of Peak Amounts =				0.0959	
						RPD = 2.54	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

Tox 0.1ng_00013	Amount Added: 1.00	Units: mL	
COPPER_00067	Amount Added: 1.00	Units: Packet	Run Reagent
1-Br2nit 50ng_00006	Amount Added: 10.00	Units: uL	Run Reagent

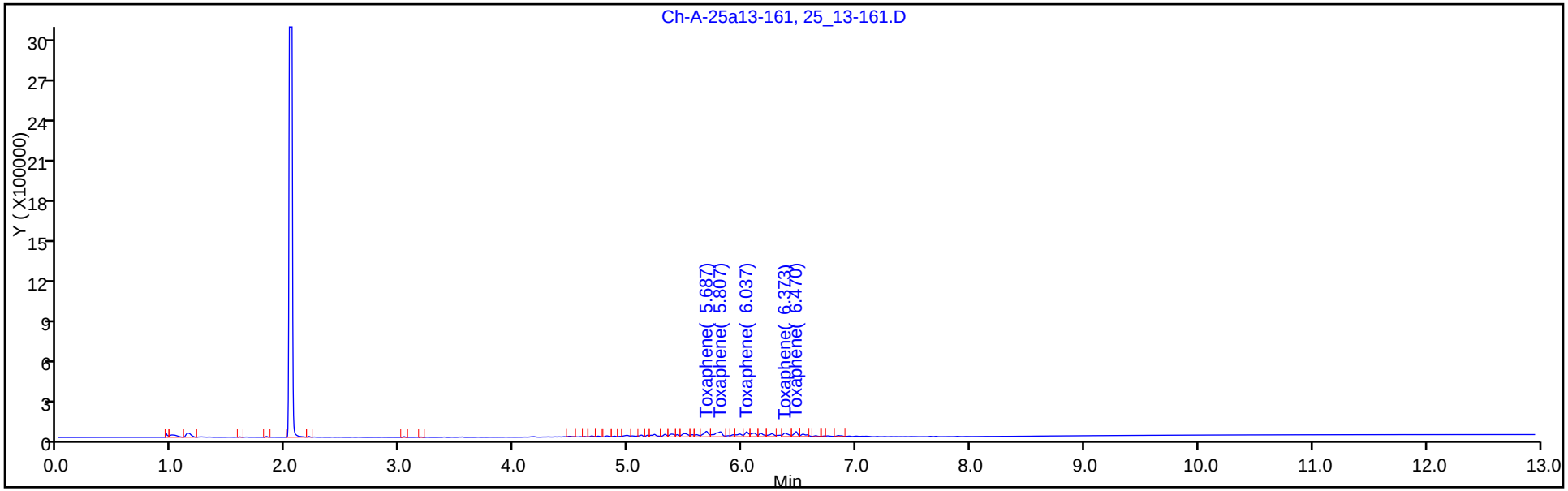
Report Date: 17-Apr-2017 13:19:32 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

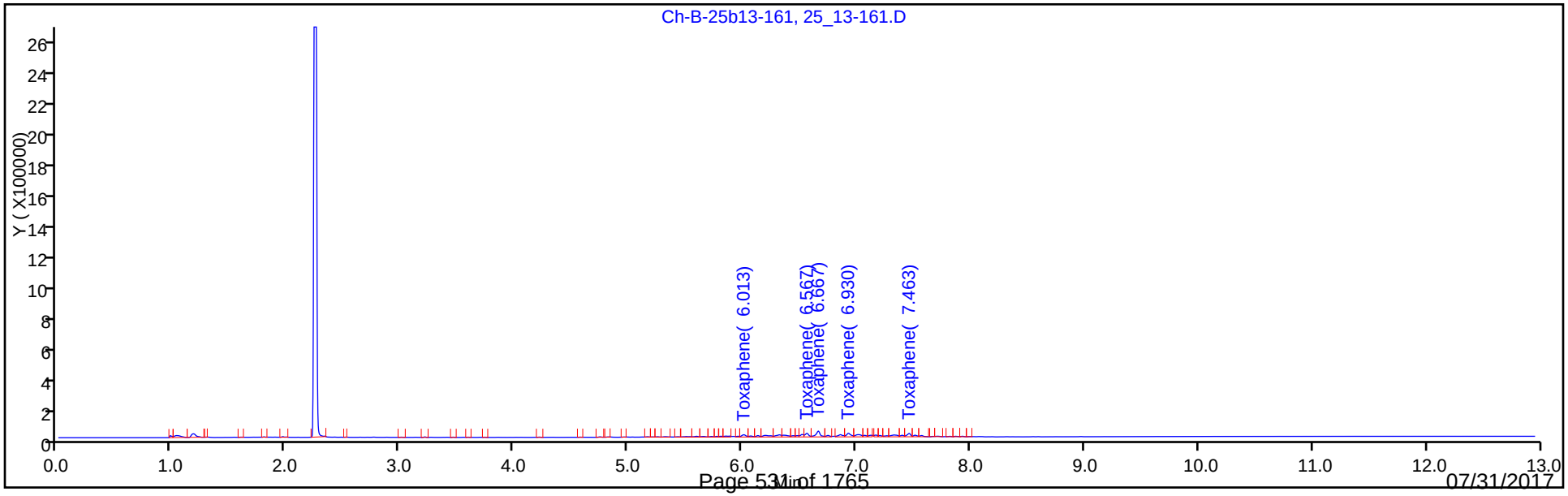
Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170413-61643.b\25_13-161.D

Injection Date:	13-Apr-2017 15:17:42	Instrument ID:	HP6890-25	Operator ID:	BufTCHROM
Lims ID:	std4			Worklist Smp#:	21
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IS-8081	Limit Group:	GC - 8081B IS ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



Report Date: 17-Apr-2017 13:19:32 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170413-61643.b\25_13-161.D

Injection Date: 13-Apr-2017 15:17:42 Instrument ID: HP6890-25

Lims ID: std4

Client ID:

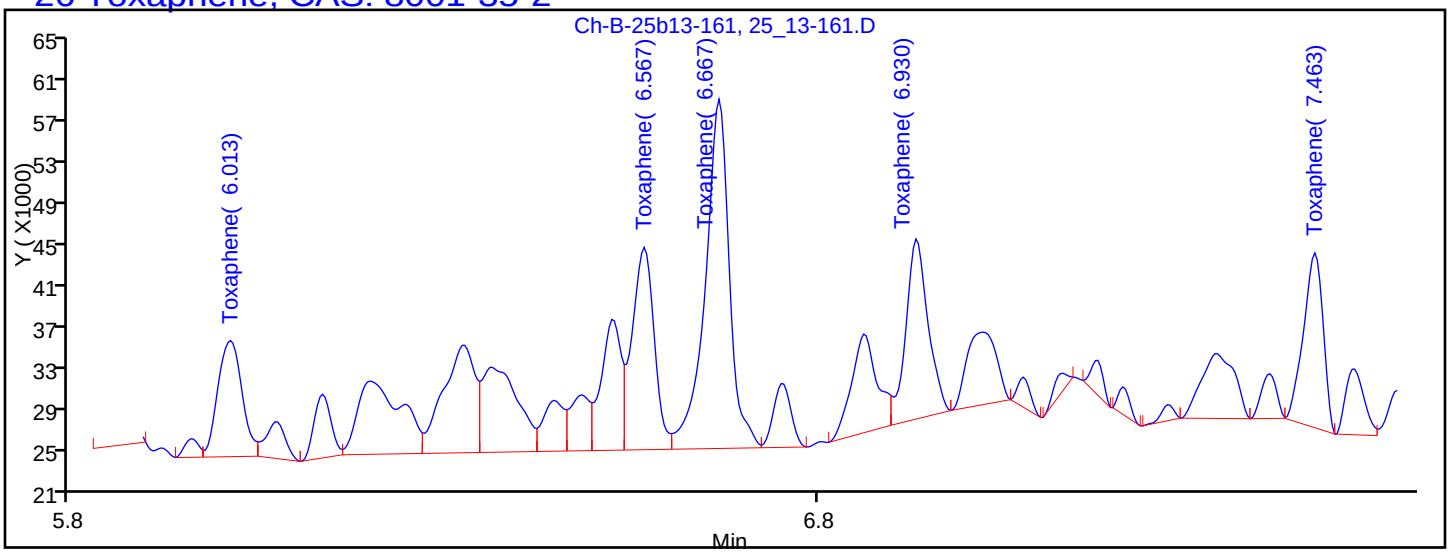
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 21

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: IS-8081 Limit Group: GC - 8081B IS ICAL

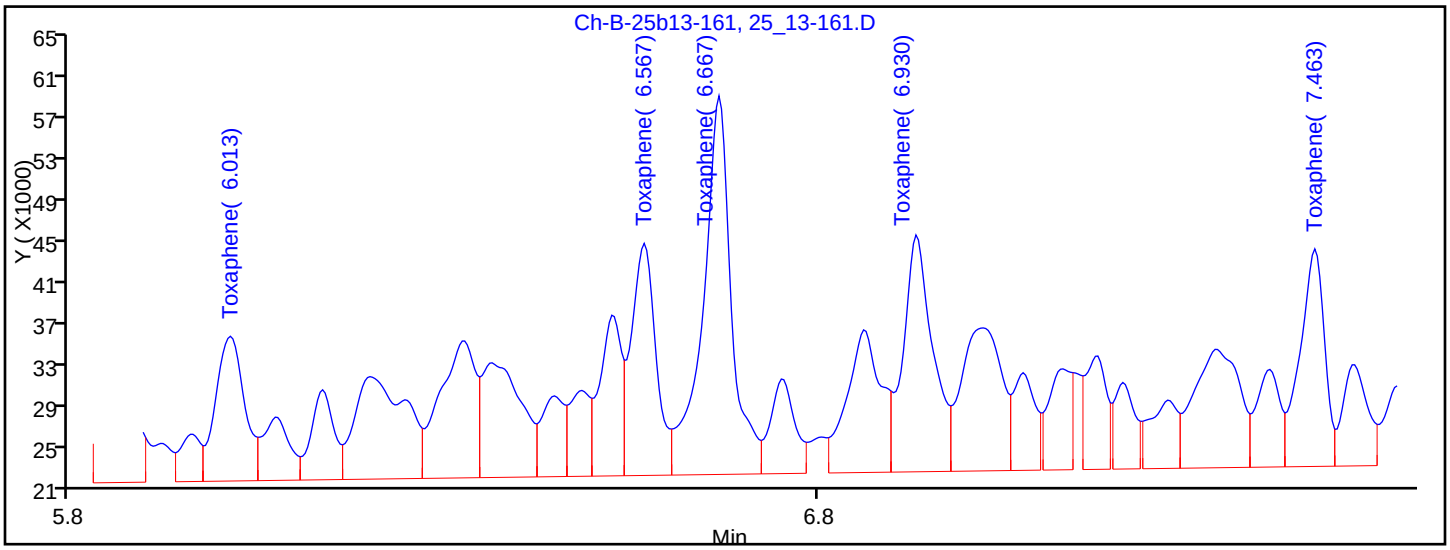
Column: Detector Ch-B-6b58132

26 Toxaphene, CAS: 8001-35-2



Processing Integration Results

6.013	Response = 24943
6.567	Response = 39859
6.667	Response = 75018
6.930	Response = 35511
7.463	Response = 30418



Manual Integration Results

6.013	Response = 37153	M
6.567	Response = 50903	M
6.667	Response = 96100	M
6.930	Response = 62310	M
7.463	Response = 47592	M

Reviewer: RudzG, 17-Apr-2017 12:07:35

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170413-61643.b\25_13-162.D
Lims ID: std5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 13-Apr-2017 15:37:24 ALS Bottle#: 0 Worklist Smp#: 22
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, CN10839003
Operator ID: BufTCHROM Instrument ID: HP6890-25
Sublist: chrom-IS-8081*sub16

Method: \\ChromNA\Buffalo\ChromData\HP6890-25\20170413-61643.b\IS-8081.m
Limit Group: GC - 8081B IS ICAL
Last Update: 17-Apr-2017 13:19:34 Calib Date: 13-Apr-2017 17:35:17
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170413-61643.b\25_13-168.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK001

First Level Reviewer: salversonj Date: 14-Apr-2017 14:09:28

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 44 1-Bromo-2-nitrobenzene							
1	2.040	2.033	0.007	14249738	0.5000	0.5000	
2	2.257	2.253	0.004	10161889	0.5000	0.5000	
						RPD = 0.00	
26 Toxaphene							M
1	5.687	5.680	0.007	62848	0.0500	0.0548	M
1	5.813	5.803	0.010	77888	0.0500	0.0534	M
1	6.040	6.033	0.007	42823	0.0500	0.0550	M
1	6.377	6.370	0.007	46515	0.0500	0.0567	M
1	6.473	6.460	0.013	43710	0.0500	0.0496	M
		Average of Peak Amounts =				0.0539	
2	6.017	6.013	0.004	18892	0.0500	0.0551	M
2	6.570	6.567	0.003	26211	0.0500	0.0551	M
2	6.670	6.663	0.007	49816	0.0500	0.0551	M
2	6.933	6.930	0.003	32225	0.0500	0.0540	M
2	7.467	7.460	0.007	24368	0.0500	0.0552	M
		Average of Peak Amounts =				0.0549	
						RPD = 1.81	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

Tox 0.05ng_00012	Amount Added: 1.00	Units: mL	
COPPER_00067	Amount Added: 1.00	Units: Packet	Run Reagent
1-Br2nit 50ng_00006	Amount Added: 10.00	Units: uL	Run Reagent

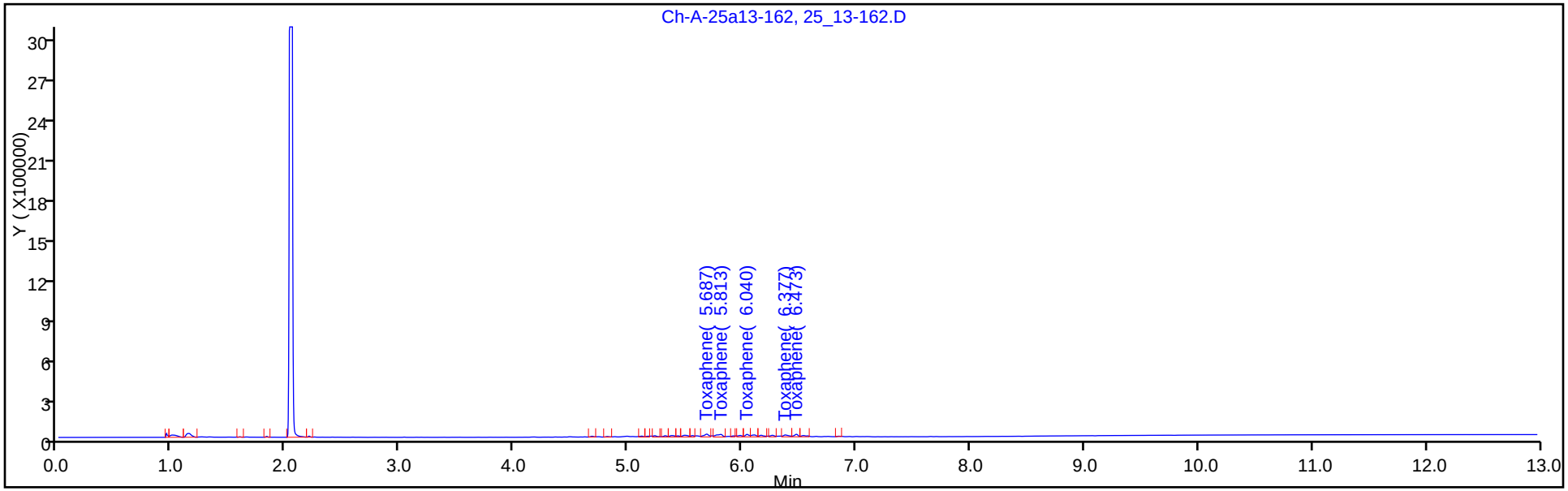
Report Date: 17-Apr-2017 13:19:34 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

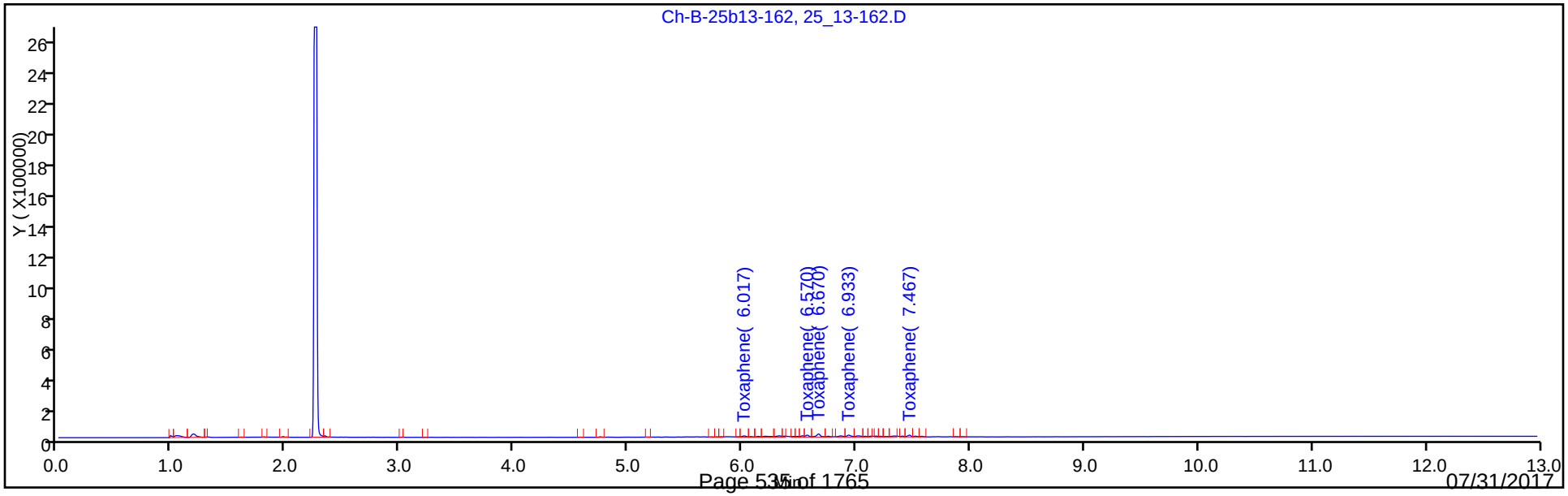
Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170413-61643.b\25_13-162.D

Injection Date:	13-Apr-2017 15:37:24	Instrument ID:	HP6890-25	Operator ID:	BufTCHROM
Lims ID:	std5			Worklist Smp#:	22
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IS-8081	Limit Group:	GC - 8081B IS ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



Report Date: 17-Apr-2017 13:19:34 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170413-61643.b\25_13-162.D

Injection Date: 13-Apr-2017 15:37:24 Instrument ID: HP6890-25

Lims ID: std5

Client ID:

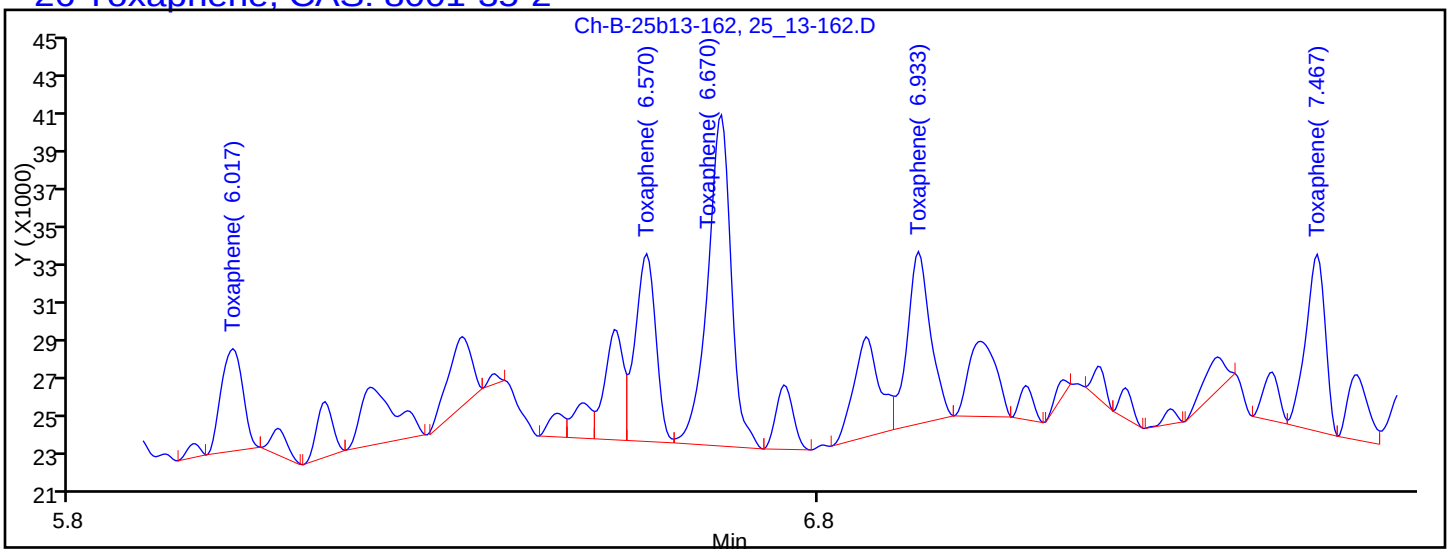
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 22

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: IS-8081 Limit Group: GC - 8081B IS ICAL

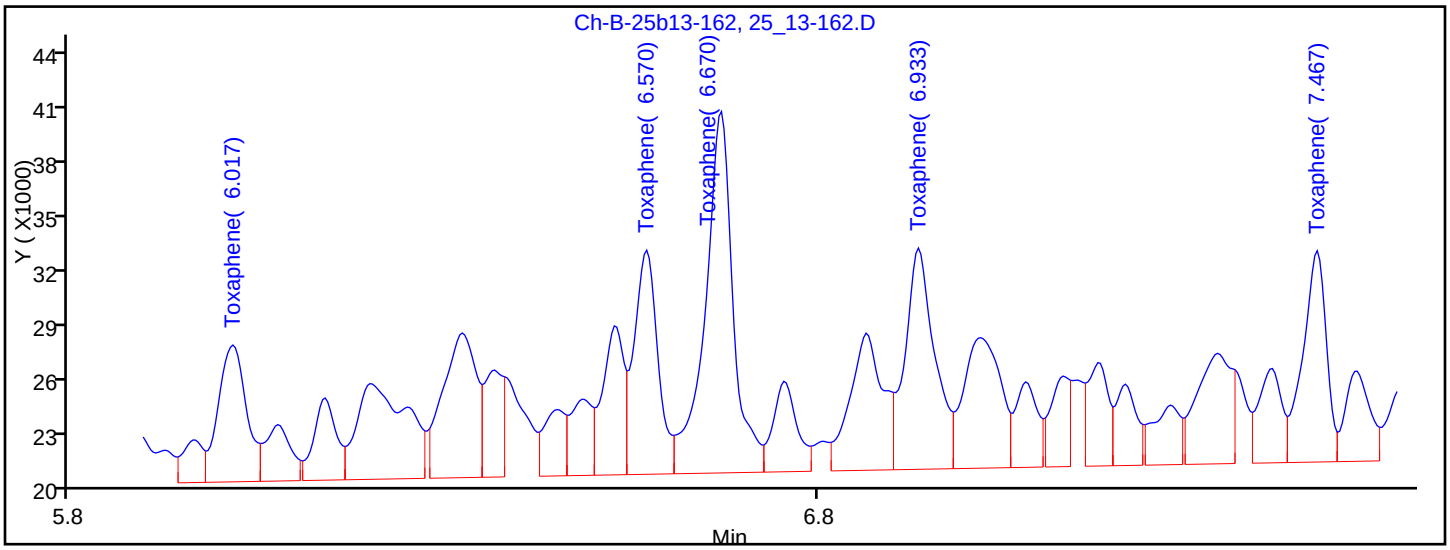
Column: Detector Ch-B-6b58132

26 Toxaphene, CAS: 8001-35-2



Processing Integration Results

6.017	Response = 10878
6.570	Response = 18940
6.670	Response = 38120
6.933	Response = 19520
7.467	Response = 16834



Manual Integration Results

6.017	Response = 18892	M
6.570	Response = 26211	M
6.670	Response = 49816	M
6.933	Response = 32225	M
7.467	Response = 24368	M

Reviewer: RudzG, 17-Apr-2017 12:08:08

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

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

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1 Analy Batch No.: 367911

SDG No.:

Instrument ID: HP6890-25 GC Column: RTX-CLPI ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/20/2017 11:23 Calibration End Date: 07/20/2017 12:42 Calibration ID: 30919

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD5 480-367911/40	25_17-165.D
Level 2	STD4 480-367911/39	25_17-164.D
Level 3	STD3 480-367911/38	25_17-163.D
Level 4	STD2 480-367911/37	25_17-162.D
Level 5	STD1 480-367911/36	25_17-161.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
alpha-BHC	1.8055	1.9721	2.2459	2.1378	2.0712	Lin1	-0.001	2.1331							0.9990		0.9900
gamma-BHC (Lindane)	1.6127	1.7516	1.9899	1.8968	1.8438	Lin1	-0.001	1.8952							0.9990		0.9900
beta-BHC	0.6749	0.6734	0.7540	0.7351	0.7411	Lin1	0	0.7450							1.0000		0.9900
delta-BHC	1.4909	1.6738	1.9572	1.8819	1.8485	Lin1	-0.002	1.8944							0.9990		0.9900
Heptachlor	1.5636	1.6764	1.7972	1.6499	1.5694	Lin1	0.0003	1.6292							0.9970		0.9900
Aldrin	1.5152	1.6416	1.8185	1.6974	1.6259	Lin1	0	1.6836							0.9980		0.9900
Heptachlor epoxide	1.4202	1.4947	1.5595	1.4299	1.3639	Lin1	0.0006	1.4108							0.9970		0.9900
gamma-Chlordane	1.5211	1.5529	1.7430	1.6732	1.6218	Lin1	-0.001	1.6632							0.9990		0.9900
alpha-Chlordane	1.3789	1.4503	1.6437	1.5745	1.5312	Lin1	-0.001	1.5708							0.9990		0.9900
4,4'-DDE	1.2437	1.3744	1.6259	1.5522	1.5057	Lin1	-0.001	1.5530							0.9990		0.9900
Endosulfan I	1.2374	1.3497	1.4098	1.3001	1.2460	Lin1	0.0003	1.2874							0.9970		0.9900
Dieldrin	1.3440	1.4242	1.5710	1.4662	1.4172	Lin1	0	1.4599							0.9980		0.9900
Endrin	1.3538	1.4268	1.5203	1.3955	1.3266	Lin1	0.0004	1.3761							0.9970		0.9900
4,4'-DDD	0.9879	1.1105	1.3190	1.2628	1.2199	Lin1	-0.001	1.2613							0.9990		0.9900
Endosulfan II	1.1110	1.2567	1.3370	1.2409	1.1859	Lin1	0	1.2290							0.9970		0.9900
4,4'-DDT	1.0149	1.1367	1.3964	1.3520	1.3161	Lin1	-0.002	1.3565							0.9990		0.9900
Endrin aldehyde	0.9837	1.0167	1.0622	1.0010	0.9571	Lin1	0.0003	0.9857							0.9980		0.9900
Methoxychlor	0.5061	0.5509	0.6091	0.5821	0.5656	Lin1	0	0.5805							0.9990		0.9900
Endosulfan sulfate	1.0626	1.1139	1.1823	1.1226	1.0700	Lin1	0.0001	1.1044							0.9980		0.9900
Endrin ketone	1.2021	1.2855	1.3860	1.3014	1.2454	Lin1	0	1.2867							0.9980		0.9900
Tetrachloro-m-xylene	0.8353	0.8268	0.9631	0.9461	0.9974	Lin1	-0.001	0.9843							0.9990		0.9900
DCB Decachlorobiphenyl	1.0274	1.0231	1.0650	1.0243	0.9988	Lin1	0.0002	1.0158							0.9990		0.9900

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

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

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1 Analy Batch No.: 367911

SDG No.:

Instrument ID: HP6890-25 GC Column: RTX-CLPI ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/20/2017 11:23 Calibration End Date: 07/20/2017 12:42 Calibration ID: 30919

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD5 480-367911/40	25_17-165.D
Level 2	STD4 480-367911/39	25_17-164.D
Level 3	STD3 480-367911/38	25_17-163.D
Level 4	STD2 480-367911/37	25_17-162.D
Level 5	STD1 480-367911/36	25_17-161.D

ANALYTE	IS REF	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	BNB	Lin1	267537	568795	3213244	6238209	8712119	0.00500	0.0100	0.0500	0.100	0.150
gamma-BHC (Lindane)	BNB	Lin1	238975	505210	2847000	5534975	7755592	0.00500	0.0100	0.0500	0.100	0.150
beta-BHC	BNB	Lin1	100012	194226	1078766	2145019	3117547	0.00500	0.0100	0.0500	0.100	0.150
delta-BHC	BNB	Lin1	220922	482768	2800164	5491533	7775718	0.00500	0.0100	0.0500	0.100	0.150
Heptachlor	BNB	Lin1	231699	483523	2571235	4814374	6601656	0.00500	0.0100	0.0500	0.100	0.150
Aldrin	BNB	Lin1	224528	473477	2601768	4953087	6839396	0.00500	0.0100	0.0500	0.100	0.150
Heptachlor epoxide	BNB	Lin1	210453	431108	2231095	4172576	5736978	0.00500	0.0100	0.0500	0.100	0.150
gamma-Chlordane	BNB	Lin1	225398	447907	2493727	4882487	6821947	0.00500	0.0100	0.0500	0.100	0.150
alpha-Chlordane	BNB	Lin1	204326	418316	2351663	4594368	6440908	0.00500	0.0100	0.0500	0.100	0.150
4,4'-DDE	BNB	Lin1	184289	396422	2326143	4529294	6333464	0.00500	0.0100	0.0500	0.100	0.150
Endosulfan I	BNB	Lin1	183357	389280	2017014	3793793	5241380	0.00500	0.0100	0.0500	0.100	0.150
Dieldrin	BNB	Lin1	199150	410766	2247573	4278445	5961510	0.00500	0.0100	0.0500	0.100	0.150
Endrin	BNB	Lin1	200604	411532	2175102	4072224	5580089	0.00500	0.0100	0.0500	0.100	0.150
4,4'-DDD	BNB	Lin1	146389	320289	1887017	3684876	5131521	0.00500	0.0100	0.0500	0.100	0.150
Endosulfan II	BNB	Lin1	164627	362479	1912808	3620892	4988199	0.00500	0.0100	0.0500	0.100	0.150
4,4'-DDT	BNB	Lin1	150384	327862	1997848	3945220	5535921	0.00500	0.0100	0.0500	0.100	0.150
Endrin aldehyde	BNB	Lin1	145766	293235	1519646	2920853	4025863	0.00500	0.0100	0.0500	0.100	0.150
Methoxychlor	BNB	Lin1	74988	158894	871432	1698697	2379153	0.00500	0.0100	0.0500	0.100	0.150
Endosulfan sulfate	BNB	Lin1	157455	321289	1691547	3275755	4501001	0.00500	0.0100	0.0500	0.100	0.150
Endrin ketone	BNB	Lin1	178126	370765	1982962	3797484	5238606	0.00500	0.0100	0.0500	0.100	0.150
Tetrachloro-m-xylene	BNB	Lin1	123780	238484	1377925	2760769	4195356	0.00500	0.0100	0.0500	0.100	0.150
DCB Decachlorobiphenyl	BNB	Lin1	152247	295097	1523655	2988955	4201416	0.00500	0.0100	0.0500	0.100	0.150

Curve Type Legend:
Lin1 = Linear 1/conc ISTD

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\25_17-161.D
Lims ID: std1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 20-Jul-2017 11:23:55 ALS Bottle#: 0 Worklist Smp#: 36
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, CN10839003
Operator ID: BufTCHROM Instrument ID: HP6890-25
Sublist: chrom-IS-8081*sub13

Method: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\IS-8081.m
Limit Group: GC - 8081B IS ICAL
Last Update: 21-Jul-2017 07:04:06 Calib Date: 20-Jul-2017 14:40:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\25_17-171.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK012

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 44 1-Bromo-2-nitrobenzene							
1	1.997	1.993	0.004	14021348	0.5000	0.5000	
2	2.200	2.190	0.010	10118948	0.5000	0.5000	
						RPD = 0.00	
$ 4 Tetrachloro-m-xylene							
1	2.527	2.520	0.007	4195356	0.1500	0.1531	
2	2.913	2.900	0.013	3794119	0.1500	0.1468	
						RPD = 4.16	
6 alpha-BHC							
1	2.950	2.943	0.007	8712119	0.1500	0.1462	
2	3.460	3.447	0.013	6086395	0.1500	0.1465	
						RPD = 0.16	
7 gamma-BHC (Lindane)							
1	3.207	3.197	0.010	7755592	0.1500	0.1465	
2	3.810	3.793	0.017	5265318	0.1500	0.1479	
						RPD = 0.95	
8 beta-BHC							
1	3.277	3.267	0.010	3117547	0.1500	0.1498	
2	3.880	3.863	0.017	2230068	0.1500	0.1483	
						RPD = 1.04	
9 delta-BHC							
1	3.430	3.420	0.010	7775718	0.1500	0.1473	
2	4.190	4.177	0.013	5410855	0.1500	0.1476	
						RPD = 0.16	
11 Heptachlor							
1	3.617	3.607	0.010	6601656	0.1500	0.1443	
2	4.277	4.260	0.017	4760376	0.1500	0.1455	
						RPD = 0.82	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
12 Aldrin							
1	3.893	3.887	0.006	6839396	0.1500	0.1451	
2	4.627	4.610	0.017	4750207	0.1500	0.1462	
						RPD = 0.77	
14 Heptachlor epoxide							
1	4.490	4.480	0.010	5736978	0.1500	0.1446	
2	5.230	5.213	0.017	3928434	0.1500	0.1463	
						RPD = 1.21	
16 gamma-Chlordane							
1	4.613	4.607	0.006	6821947	0.1500	0.1466	
2	5.427	5.413	0.014	4385102	0.1500	0.1472	
						RPD = 0.36	
17 alpha-Chlordane							
1	4.750	4.740	0.010	6440908	0.1500	0.1467	
2	5.580	5.567	0.013	3999723	0.1500	0.1492	
						RPD = 1.63	
18 4,4'-DDE							
1	4.833	4.823	0.010	6333464	0.1500	0.1463	
2	5.740	5.727	0.013	4109303	0.1500	0.1470	
						RPD = 0.50	
19 Endosulfan I							
1	4.887	4.877	0.010	5241380	0.1500	0.1449	
2	5.647	5.633	0.014	3507119	0.1500	0.1460	
						RPD = 0.75	
21 Dieldrin							
1	5.133	5.123	0.010	5961510	0.1500	0.1458	
2	5.933	5.920	0.013	4103709	0.1500	0.1463	
						RPD = 0.33	
23 Endrin							
1	5.370	5.360	0.010	5580089	0.1500	0.1443	
2	6.253	6.240	0.013	3776963	0.1500	0.1463	
						RPD = 1.41	
24 4,4'-DDD							
1	5.447	5.440	0.007	5131521	0.1500	0.1460	
2	6.347	6.333	0.014	3220941	0.1500	0.1478	
						RPD = 1.21	
27 Endosulfan II							
1	5.600	5.590	0.010	4988199	0.1500	0.1448	
2	6.470	6.457	0.013	3286959	0.1500	0.1466	
						RPD = 1.25	
28 4,4'-DDT							
1	5.737	5.730	0.007	5535921	0.1500	0.1468	
2	6.670	6.657	0.013	3287650	0.1500	0.1487	
						RPD = 1.31	
29 Endrin aldehyde							
1	6.033	6.023	0.010	4025863	0.1500	0.1454	
2	6.817	6.803	0.014	2532436	0.1500	0.1468	
						RPD = 0.99	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
30 Methoxychlor							
1	6.247	6.240	0.007	2379153	0.1500	0.1466	
2	7.357	7.347	0.010	1470298	0.1500	0.1497	
						RPD = 2.08	
32 Endosulfan sulfate							
1	6.480	6.470	0.010	4501001	0.1500	0.1452	
2	7.100	7.087	0.013	2882717	0.1500	0.1473	
						RPD = 1.38	
33 Endrin ketone							
1	6.763	6.757	0.006	5238606	0.1500	0.1452	
2	7.650	7.637	0.013	3283127	0.1500	0.1478	
						RPD = 1.78	
$ 34 DCB Decachlorobiphenyl							
1	7.793	7.787	0.006	4201416	0.1500	0.1473	
2	8.850	8.837	0.013	2396070	0.1500	0.1480	
						RPD = 0.46	
S 1 BHC, Total							
1						0.5899	
2						0.5902	
						RPD = 0.05	

Reagents:

PEST_CAL_.15_00024	Amount Added: 1.00	Units: mL	
COPPER_00067	Amount Added: 1.00	Units: Packet	Run Reagent
1-Br2nit 50ng_00008	Amount Added: 10.00	Units: uL	Run Reagent

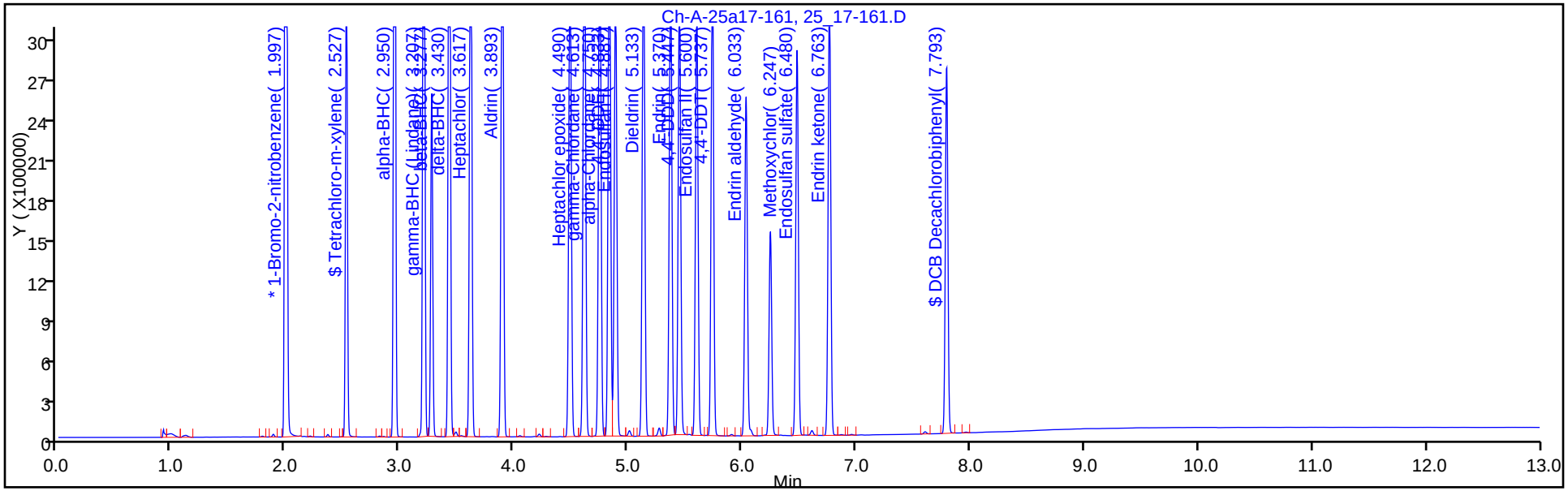
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TestAmerica Buffalo

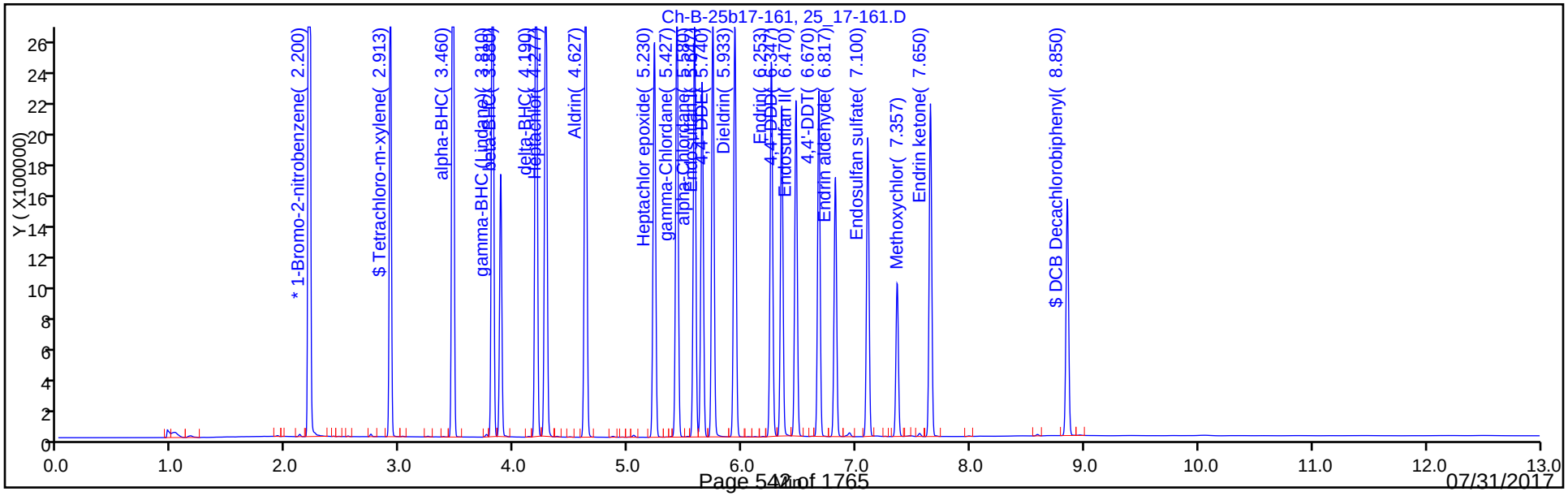
Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\25_17-161.D

Injection Date:	20-Jul-2017 11:23:55	Instrument ID:	HP6890-25	Operator ID:	BufTCHROM
Lims ID:	std1			Worklist Smp#:	36
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IS-8081	Limit Group:	GC - 8081B IS 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: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\25_17-162.D
Lims ID: std2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 20-Jul-2017 11:43:38 ALS Bottle#: 0 Worklist Smp#: 37
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, CN10839003
Operator ID: BufTCHROM Instrument ID: HP6890-25
Sublist: chrom-IS-8081*sub13

Method: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\IS-8081.m
Limit Group: GC - 8081B IS ICAL
Last Update: 21-Jul-2017 07:04:09 Calib Date: 20-Jul-2017 14:40:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\25_17-171.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK012

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 44 1-Bromo-2-nitrobenzene							
1	1.997	1.993	0.004	14590133	0.5000	0.5000	
2	2.197	2.190	0.007	10463611	0.5000	0.5000	
						RPD = 0.00	
$ 4 Tetrachloro-m-xylene							
1	2.523	2.520	0.003	2760769	0.1000	0.0972	
2	2.907	2.900	0.007	2691792	0.1000	0.1008	
						RPD = 3.70	
6 alpha-BHC							
1	2.947	2.943	0.004	6238209	0.1000	0.1008	
2	3.453	3.447	0.006	4327895	0.1000	0.1010	
						RPD = 0.14	
7 gamma-BHC (Lindane)							
1	3.200	3.197	0.003	5534975	0.1000	0.1007	
2	3.800	3.793	0.007	3682220	0.1000	0.1003	
						RPD = 0.38	
8 beta-BHC							
1	3.270	3.267	0.003	2145019	0.1000	0.0993	
2	3.873	3.863	0.010	1559143	0.1000	0.1004	
						RPD = 1.19	
9 delta-BHC							
1	3.427	3.420	0.007	5491533	0.1000	0.1003	
2	4.183	4.177	0.006	3802962	0.1000	0.1007	
						RPD = 0.34	
11 Heptachlor							
1	3.613	3.607	0.006	4814374	0.1000	0.1011	
2	4.270	4.260	0.010	3422261	0.1000	0.1012	
						RPD = 0.15	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
12 Aldrin							
1	3.890	3.887	0.003	4953087	0.1000	0.1010	
2	4.620	4.610	0.010	3397671	0.1000	0.1012	
						RPD = 0.18	
14 Heptachlor epoxide							
1	4.483	4.480	0.003	4172576	0.1000	0.1009	
2	5.223	5.213	0.010	2797907	0.1000	0.1008	
						RPD = 0.07	
16 gamma-Chlordane							
1	4.610	4.607	0.003	4882487	0.1000	0.1010	
2	5.420	5.413	0.007	3099952	0.1000	0.1009	
						RPD = 0.09	
17 alpha-Chlordane							
1	4.747	4.740	0.007	4594368	0.1000	0.1008	
2	5.577	5.567	0.010	2764770	0.1000	0.1000	
						RPD = 0.75	
18 4,4'-DDE							
1	4.830	4.823	0.007	4529294	0.1000	0.1008	
2	5.737	5.727	0.010	2912946	0.1000	0.1011	
						RPD = 0.25	
19 Endosulfan I							
1	4.883	4.877	0.006	3793793	0.1000	0.1007	
2	5.643	5.633	0.010	2509064	0.1000	0.1011	
						RPD = 0.35	
21 Dieldrin							
1	5.130	5.123	0.007	4278445	0.1000	0.1006	
2	5.930	5.920	0.010	2926621	0.1000	0.1010	
						RPD = 0.45	
23 Endrin							
1	5.367	5.360	0.007	4072224	0.1000	0.1011	
2	6.250	6.240	0.010	2693818	0.1000	0.1011	
						RPD = 0.01	
24 4,4'-DDD							
1	5.443	5.440	0.003	3684876	0.1000	0.1011	
2	6.340	6.333	0.007	2266556	0.1000	0.1010	
						RPD = 0.12	
27 Endosulfan II							
1	5.597	5.590	0.007	3620892	0.1000	0.1010	
2	6.467	6.457	0.010	2344792	0.1000	0.1012	
						RPD = 0.23	
28 4,4'-DDT							
1	5.733	5.730	0.003	3945220	0.1000	0.1009	
2	6.667	6.657	0.010	2292895	0.1000	0.1009	
						RPD = 0.00	
29 Endrin aldehyde							
1	6.030	6.023	0.007	2920853	0.1000	0.1013	
2	6.810	6.803	0.007	1806433	0.1000	0.1014	
						RPD = 0.08	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
30 Methoxychlor							
1	6.243	6.240	0.003	1698697	0.1000	0.1007	
2	7.353	7.347	0.006	1016763	0.1000	0.1006	
						RPD = 0.08	
32 Endosulfan sulfate							
1	6.477	6.470	0.007	3275755	0.1000	0.1016	
2	7.097	7.087	0.010	2049266	0.1000	0.1014	
						RPD = 0.15	
33 Endrin ketone							
1	6.760	6.757	0.003	3797484	0.1000	0.1012	
2	7.647	7.637	0.010	2315790	0.1000	0.1011	
						RPD = 0.05	
$ 34 DCB Decachlorobiphenyl							
1	7.790	7.787	0.003	2988955	0.1000	0.1007	
2	8.847	8.837	0.010	1683638	0.1000	0.1005	
						RPD = 0.13	
S 1 BHC, Total							
1						0.4011	
2						0.4024	
						RPD = 0.32	

Reagents:

PEST_CAL_.10_00026	Amount Added: 1.00	Units: mL		
COPPER_00067	Amount Added: 1.00	Units: Packet	Run Reagent	
1-Br2nit 50ng_00008	Amount Added: 10.00	Units: uL	Run Reagent	

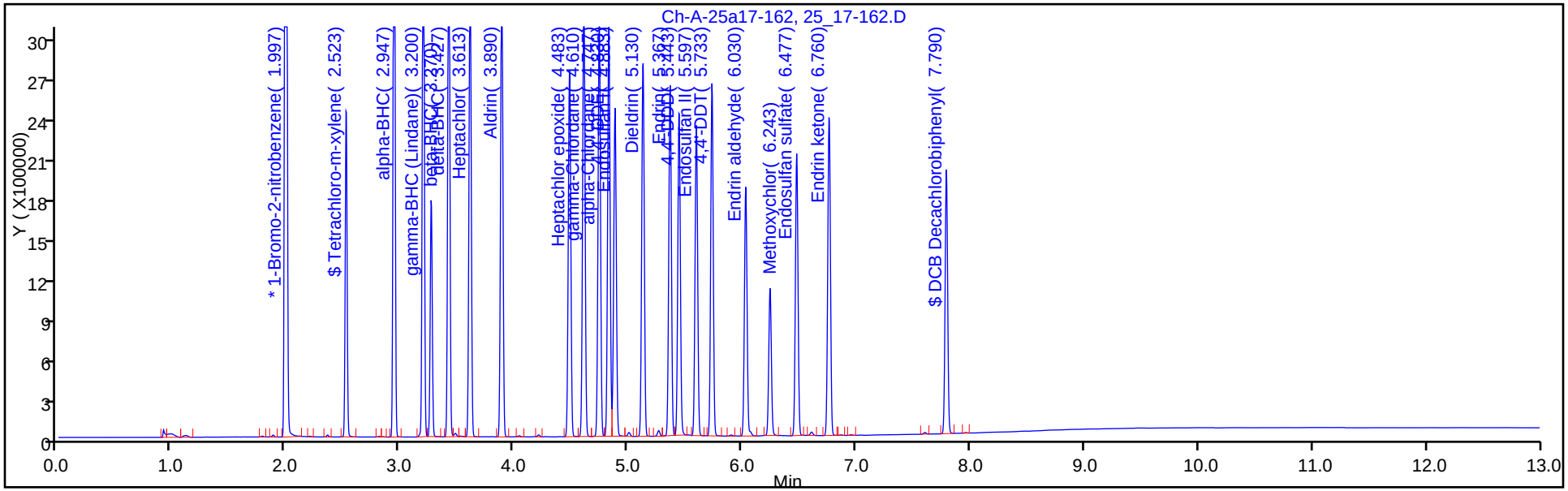
Report Date: 21-Jul-2017 07:04:09 Chrom Revision: 2.2 20-Jun-2017 07:42:38

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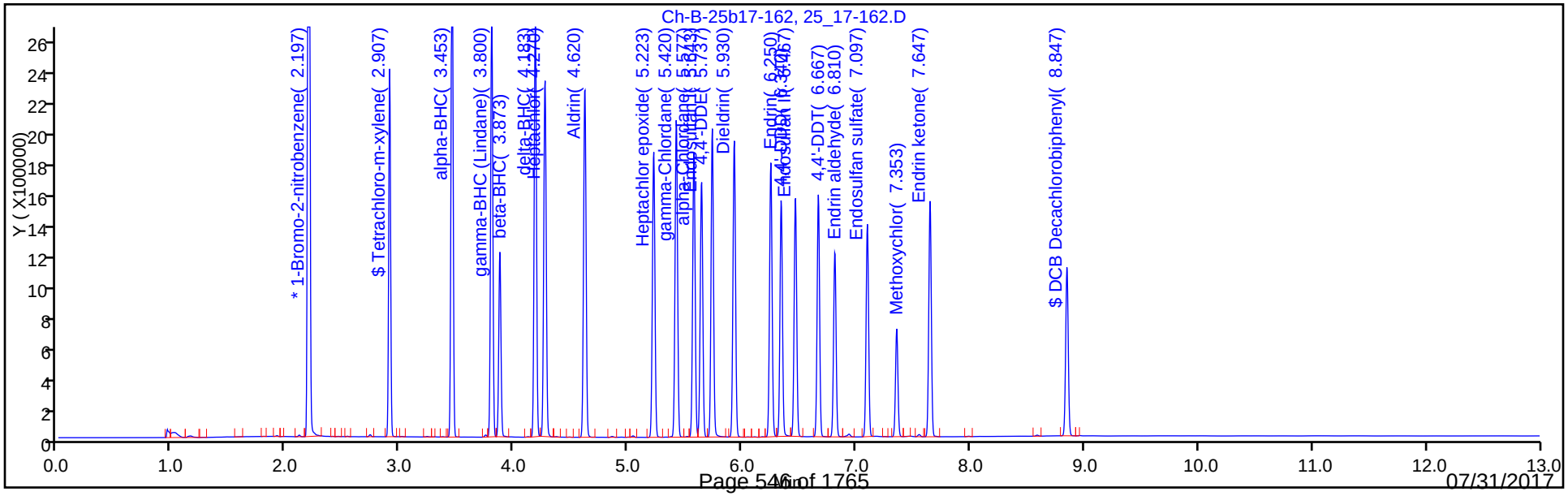
Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\25_17-162.D

Injection Date:	20-Jul-2017 11:43:38	Instrument ID:	HP6890-25	Operator ID:	BufTCHROM
Lims ID:	std2			Worklist Smp#:	37
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IS-8081	Limit Group:	GC - 8081B IS 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: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\25_17-163.D
Lims ID: std3
Client ID:
Sample Type: ICIS Calib Level: 3
Inject. Date: 20-Jul-2017 12:03:16 ALS Bottle#: 0 Worklist Smp#: 38
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, CN10839003
Operator ID: BufTCHROM Instrument ID: HP6890-25
Sublist: chrom-IS-8081*sub13

Method: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\IS-8081.m
Limit Group: GC - 8081B IS ICAL
Last Update: 21-Jul-2017 09:09:49 Calib Date: 20-Jul-2017 14:40:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\25_17-171.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK012

First Level Reviewer: NearyM Date: 20-Jul-2017 14:50:02

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 44 1-Bromo-2-nitrobenzene							
1	1.993	1.993	0.000	14306926	0.5000	0.5000	
2	2.190	2.190	0.000	10246784	0.5000	0.5000	
						RPD = 0.00	
$ 4 Tetrachloro-m-xylene							
1	2.520	2.520	0.000	1377925	0.0500	0.0500	
2	2.900	2.900	0.000	1372006	0.0500	0.0527	
						RPD = 5.20	
6 alpha-BHC							
1	2.943	2.943	0.000	3213244	0.0500	0.0532	
2	3.447	3.447	0.000	2205389	0.0500	0.0529	
						RPD = 0.65	
7 gamma-BHC (Lindane)							
1	3.197	3.197	0.000	2847000	0.0500	0.0531	
2	3.793	3.793	0.000	1859476	0.0500	0.0521	
						RPD = 1.88	
8 beta-BHC							
1	3.267	3.267	0.000	1078766	0.0500	0.0512	
2	3.863	3.863	0.000	778546	0.0500	0.0515	
						RPD = 0.63	
9 delta-BHC							
1	3.420	3.420	0.000	2800164	0.0500	0.0526	
2	4.177	4.177	0.000	1906142	0.0500	0.0521	
						RPD = 1.10	
11 Heptachlor							
1	3.607	3.607	0.000	2571235	0.0500	0.0550	
2	4.260	4.260	0.000	1771775	0.0500	0.0536	
						RPD = 2.44	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
12 Aldrin							
1	3.887	3.887	0.000	2601768	0.0500	0.0542	
2	4.610	4.610	0.000	1736921	0.0500	0.0530	
						RPD = 2.32	
14 Heptachlor epoxide							
1	4.480	4.480	0.000	2231095	0.0500	0.0548	
2	5.213	5.213	0.000	1443231	0.0500	0.0532	
						RPD = 3.01	
16 gamma-Chlordane							
1	4.607	4.607	0.000	2493727	0.0500	0.0528	
2	5.413	5.413	0.000	1560556	0.0500	0.0523	
						RPD = 0.93	
17 alpha-Chlordane							
1	4.740	4.740	0.000	2351663	0.0500	0.0528	
2	5.567	5.567	0.000	1372547	0.0500	0.0511	
						RPD = 3.30	
18 4,4'-DDE							
1	4.823	4.823	0.000	2326143	0.0500	0.0532	
2	5.727	5.727	0.000	1460600	0.0500	0.0522	
						RPD = 1.96	
19 Endosulfan I							
1	4.877	4.877	0.000	2017014	0.0500	0.0545	
2	5.633	5.633	0.000	1289575	0.0500	0.0532	
						RPD = 2.48	
21 Dieldrin							
1	5.123	5.123	0.000	2247573	0.0500	0.0540	
2	5.920	5.920	0.000	1495948	0.0500	0.0530	
						RPD = 1.76	
23 Endrin							
1	5.360	5.360	0.000	2175102	0.0500	0.0549	
2	6.240	6.240	0.000	1374103	0.0500	0.0529	
						RPD = 3.78	
24 4,4'-DDD							
1	5.440	5.440	0.000	1887017	0.0500	0.0532	
2	6.333	6.333	0.000	1121860	0.0500	0.0516	
						RPD = 3.18	
27 Endosulfan II							
1	5.590	5.590	0.000	1912808	0.0500	0.0544	
2	6.457	6.457	0.000	1186491	0.0500	0.0525	
						RPD = 3.63	
28 4,4'-DDT							
1	5.730	5.730	0.000	1997848	0.0500	0.0527	
2	6.657	6.657	0.000	1107622	0.0500	0.0507	
						RPD = 3.81	
29 Endrin aldehyde							
1	6.023	6.023	0.000	1519646	0.0500	0.0536	
2	6.803	6.803	0.000	906360	0.0500	0.0521	
						RPD = 2.93	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
30 Methoxychlor							
1	6.240	6.240	0.000	871432	0.0500	0.0529	
2	7.347	7.347	0.000	485319	0.0500	0.0499	
						RPD = 5.85	
32 Endosulfan sulfate							
1	6.470	6.470	0.000	1691547	0.0500	0.0534	
2	7.087	7.087	0.000	1014907	0.0500	0.0516	
						RPD = 3.61	
33 Endrin ketone							
1	6.757	6.757	0.000	1982962	0.0500	0.0539	
2	7.637	7.637	0.000	1140583	0.0500	0.0513	
						RPD = 4.90	
$ 34 DCB Decachlorobiphenyl							
1	7.787	7.787	0.000	1523655	0.0500	0.0522	
2	8.837	8.837	0.000	847819	0.0500	0.0516	
						RPD = 1.17	

Reagents:

PEST_CCV_.05_00239	Amount Added: 1.00	Units: mL	
COPPER_00067	Amount Added: 1.00	Units: Packet	Run Reagent
1-Br2nit 50ng_00008	Amount Added: 10.00	Units: uL	Run Reagent

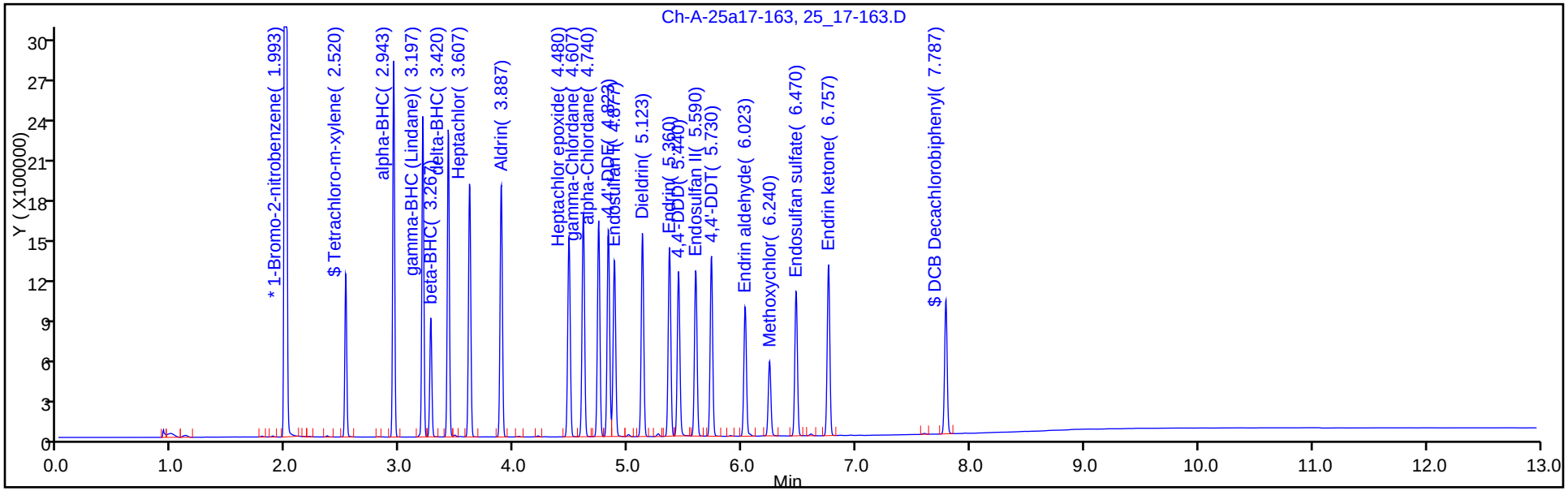
Report Date: 21-Jul-2017 09:09:50 Chrom Revision: 2.2 20-Jun-2017 07:42:38

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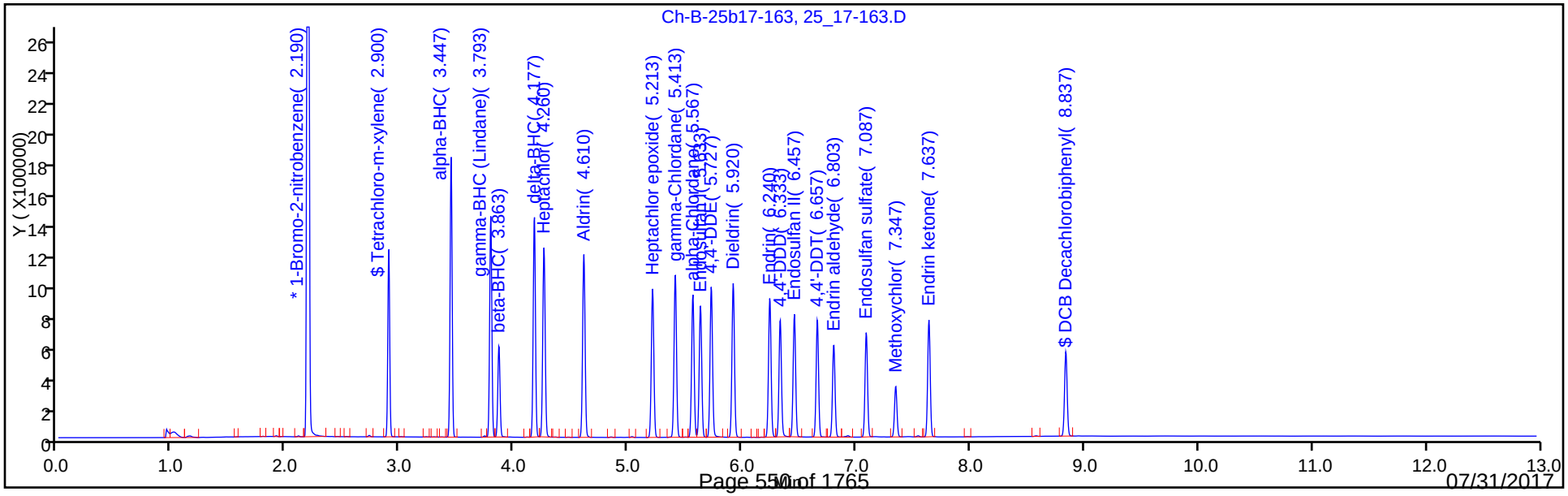
Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\25_17-163.D

Injection Date:	20-Jul-2017 12:03:16	Instrument ID:	HP6890-25	Operator ID:	BufTCHROM
Lims ID:	std3			Worklist Smp#:	38
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IS-8081	Limit Group:	GC - 8081B IS 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: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\25_17-164.D
Lims ID: std4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 20-Jul-2017 12:22:49 ALS Bottle#: 0 Worklist Smp#: 39
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, CN10839003
Operator ID: BufTCHROM Instrument ID: HP6890-25
Sublist: chrom-IS-8081*sub13

Method: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\IS-8081.m
Limit Group: GC - 8081B IS ICAL
Last Update: 21-Jul-2017 07:04:11 Calib Date: 20-Jul-2017 14:40:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\25_17-171.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK012

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 44 1-Bromo-2-nitrobenzene							
1	1.993	1.993	0.000	14421304	0.5000	0.5000	
2	2.190	2.190	0.000	10292415	0.5000	0.5000	
						RPD = 0.00	
$ 4 Tetrachloro-m-xylene							
1	2.523	2.520	0.003	238484	0.0100	0.009465	
2	2.900	2.900	0.000	247727	0.0100	0.009755	
						RPD = 3.01	
6 alpha-BHC							
1	2.943	2.943	0.000	568795	0.0100	0.009848	
2	3.447	3.447	0.000	382657	0.0100	0.009767	
						RPD = 0.83	
7 gamma-BHC (Lindane)							
1	3.200	3.197	0.003	505210	0.0100	0.009840	
2	3.793	3.793	0.000	322126	0.0100	0.009646	
						RPD = 1.99	
8 beta-BHC							
1	3.270	3.267	0.003	194226	0.0100	0.009622	
2	3.867	3.863	0.004	140907	0.0100	0.009780	
						RPD = 1.62	
9 delta-BHC							
1	3.423	3.420	0.003	482768	0.0100	0.009807	
2	4.177	4.177	0.000	324630	0.0100	0.009740	
						RPD = 0.68	
11 Heptachlor							
1	3.610	3.607	0.003	483523	0.0100	0.0101	
2	4.260	4.260	0.000	321573	0.0100	0.009897	
						RPD = 1.91	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
12 Aldrin							
1	3.887	3.887	0.000	473477	0.0100	0.0100	
2	4.610	4.610	0.000	311120	0.0100	0.009679	
						RPD = 2.87	
14 Heptachlor epoxide							
1	4.480	4.480	0.000	431108	0.0100	0.0101	
2	5.213	5.213	0.000	262983	0.0100	0.009787	
						RPD = 3.58	
16 gamma-Chlordane							
1	4.607	4.607	0.000	447907	0.0100	0.009701	
2	5.413	5.413	0.000	270450	0.0100	0.009734	
						RPD = 0.34	
17 alpha-Chlordane							
1	4.740	4.740	0.000	418316	0.0100	0.009754	
2	5.567	5.567	0.000	239641	0.0100	0.009613	
						RPD = 1.46	
18 4,4'-DDE							
1	4.827	4.823	0.004	396422	0.0100	0.009736	
2	5.727	5.727	0.000	251350	0.0100	0.009691	
						RPD = 0.46	
19 Endosulfan I							
1	4.880	4.877	0.003	389280	0.0100	0.0102	
2	5.633	5.633	0.000	235549	0.0100	0.009860	
						RPD = 3.77	
21 Dieldrin							
1	5.127	5.123	0.004	410766	0.0100	0.0099	
2	5.920	5.920	0.000	264749	0.0100	0.009813	
						RPD = 1.00	
23 Endrin							
1	5.363	5.360	0.003	411532	0.0100	0.0101	
2	6.240	6.240	0.000	244764	0.0100	0.009790	
						RPD = 2.73	
24 4,4'-DDD							
1	5.443	5.440	0.003	320289	0.0100	0.009761	
2	6.333	6.333	0.000	188277	0.0100	0.009546	
						RPD = 2.23	
27 Endosulfan II							
1	5.593	5.590	0.003	362479	0.0100	0.0103	
2	6.457	6.457	0.000	215751	0.0100	0.009798	
						RPD = 4.60	
28 4,4'-DDT							
1	5.730	5.730	0.000	327862	0.0100	0.009620	
2	6.657	6.657	0.000	171206	0.0100	0.009414	
						RPD = 2.17	
29 Endrin aldehyde							
1	6.023	6.023	0.000	293235	0.0100	0.0100	
2	6.800	6.803	-0.003	168699	0.0100	0.009856	
						RPD = 1.82	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
30 Methoxychlor							
1	6.240	6.240	0.000	158894	0.0100	0.0099	
2	7.347	7.347	0.000	79767	0.0100	0.009552	
						RPD = 4.03	
32 Endosulfan sulfate							
1	6.473	6.470	0.003	321289	0.0100	0.0100	
2	7.087	7.087	0.000	185100	0.0100	0.009802	
						RPD = 2.07	
33 Endrin ketone							
1	6.757	6.757	0.000	370765	0.0100	0.0100	
2	7.637	7.637	0.000	199838	0.0100	0.009701	
						RPD = 3.24	
$ 34 DCB Decachlorobiphenyl							
1	7.783	7.787	-0.004	295097	0.0100	0.009898	
2	8.837	8.837	0.000	164949	0.0100	0.0099	
						RPD = 0.11	
S 1 BHC, Total							
1						0.0391	
2						0.0389	
						RPD = 0.47	

Reagents:

pest_cal_.01_00017	Amount Added: 1.00	Units: mL	
COPPER_00067	Amount Added: 1.00	Units: Packet	Run Reagent
1-Br2nit 50ng_00008	Amount Added: 10.00	Units: uL	Run Reagent

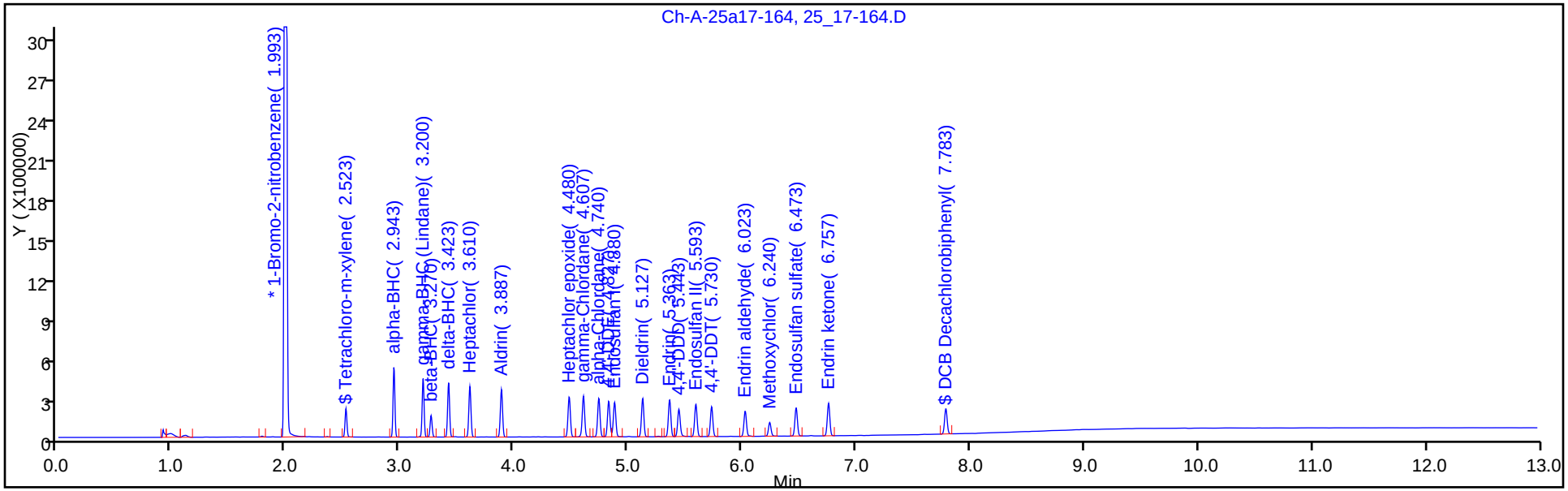
Report Date: 21-Jul-2017 07:04:11 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

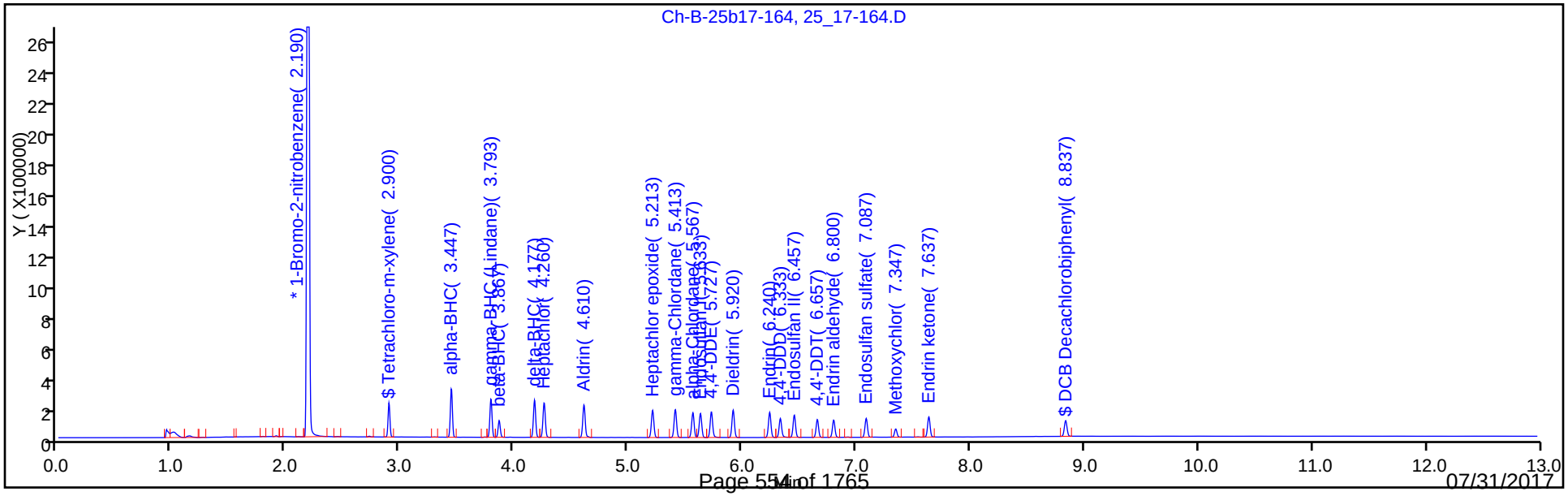
Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\25_17-164.D

Injection Date:	20-Jul-2017 12:22:49	Instrument ID:	HP6890-25	Operator ID:	BufTCHROM
Lims ID:	std4			Worklist Smp#:	39
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IS-8081	Limit Group:	GC - 8081B IS 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: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\25_17-165.D
Lims ID: std5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 20-Jul-2017 12:42:26 ALS Bottle#: 0 Worklist Smp#: 40
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, CN10839003
Operator ID: BufTCHROM Instrument ID: HP6890-25
Sublist: chrom-IS-8081*sub13

Method: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\IS-8081.m
Limit Group: GC - 8081B IS ICAL
Last Update: 21-Jul-2017 07:04:13 Calib Date: 20-Jul-2017 14:40:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\25_17-171.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK012

First Level Reviewer: NearyM Date: 20-Jul-2017 14:15:07

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 44 1-Bromo-2-nitrobenzene							
1	1.993	1.993	0.000	14818153	0.5000	0.5000	
2	2.190	2.190	0.000	10630257	0.5000	0.5000	
						RPD = 0.00	
$ 4 Tetrachloro-m-xylene							
1	2.523	2.520	0.003	123780	0.005000	0.005308	
2	2.900	2.900	0.000	124318	0.005000	0.004921	
						RPD = 7.57	
6 alpha-BHC							
1	2.943	2.943	0.000	267537	0.005000	0.004835	
2	3.447	3.447	0.000	181501	0.005000	0.004896	
						RPD = 1.25	
7 gamma-BHC (Lindane)							
1	3.200	3.197	0.003	238975	0.005000	0.004852	
2	3.793	3.793	0.000	158826	0.005000	0.005021	
						RPD = 3.42	
8 beta-BHC							
1	3.270	3.267	0.003	100012	0.005000	0.005113	
2	3.867	3.863	0.004	69609	0.005000	0.004994	
						RPD = 2.35	
9 delta-BHC							
1	3.423	3.420	0.003	220922	0.005000	0.004906	
2	4.177	4.177	0.000	150253	0.005000	0.004972	
						RPD = 1.33	
11 Heptachlor							
1	3.610	3.607	0.003	231699	0.005000	0.004597	
2	4.260	4.260	0.000	155864	0.005000	0.004778	
						RPD = 3.86	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
12 Aldrin							
1	3.887	3.887	0.000	224528	0.005000	0.004710	
2	4.610	4.610	0.000	158874	0.005000	0.004929	
						RPD = 4.54	
14 Heptachlor epoxide							
1	4.480	4.480	0.000	210453	0.005000	0.004583	
2	5.213	5.213	0.000	132707	0.005000	0.004868	
						RPD = 6.04	
16 gamma-Chlordane							
1	4.607	4.607	0.000	225398	0.005000	0.004937	
2	5.410	5.413	-0.003	128866	0.005000	0.004956	
						RPD = 0.39	
17 alpha-Chlordane							
1	4.743	4.740	0.003	204326	0.005000	0.004910	
2	5.567	5.567	0.000	119899	0.005000	0.005109	
						RPD = 3.98	
18 4,4'-DDE							
1	4.830	4.823	0.007	184289	0.005000	0.004890	
2	5.730	5.727	0.003	120388	0.005000	0.004979	
						RPD = 1.79	
19 Endosulfan I							
1	4.880	4.877	0.003	183357	0.005000	0.004561	
2	5.633	5.633	0.000	116164	0.005000	0.004830	
						RPD = 5.73	
21 Dieldrin							
1	5.127	5.123	0.004	199150	0.005000	0.004759	
2	5.920	5.920	0.000	126988	0.005000	0.004864	
						RPD = 2.18	
23 Endrin							
1	5.363	5.360	0.003	200604	0.005000	0.004611	
2	6.240	6.240	0.000	119295	0.005000	0.004883	
						RPD = 5.72	
24 4,4'-DDD							
1	5.447	5.440	0.007	146389	0.005000	0.004873	
2	6.333	6.333	0.000	91778	0.005000	0.005094	
						RPD = 4.43	
27 Endosulfan II							
1	5.593	5.590	0.003	164627	0.005000	0.004553	
2	6.457	6.457	0.000	107295	0.005000	0.004905	
						RPD = 7.45	
28 4,4'-DDT							
1	5.733	5.730	0.003	150384	0.005000	0.004981	
2	6.657	6.657	0.000	78071	0.005000	0.005216	
						RPD = 4.62	
29 Endrin aldehyde							
1	6.027	6.023	0.004	145766	0.005000	0.004712	
2	6.800	6.803	-0.003	84354	0.005000	0.004904	
						RPD = 4.00	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
30 Methoxychlor							
1	6.243	6.240	0.003	74988	0.005000	0.004813	
2	7.343	7.347	-0.004	37096	0.005000	0.005212	
						RPD = 7.95	
32 Endosulfan sulfate							
1	6.473	6.470	0.003	157455	0.005000	0.004732	
2	7.083	7.087	-0.004	91315	0.005000	0.004964	
						RPD = 4.79	
33 Endrin ketone							
1	6.760	6.757	0.003	178126	0.005000	0.004701	
2	7.633	7.637	-0.004	96843	0.005000	0.005034	
						RPD = 6.84	
$ 34 DCB Decachlorobiphenyl							
1	7.787	7.787	0.000	152247	0.005000	0.004883	
2	8.833	8.837	-0.004	85605	0.005000	0.004922	
						RPD = 0.79	
S 1 BHC, Total							
1						0.0197	
2						0.0199	
						RPD = 0.89	

Reagents:

pest_cal_.005_00017	Amount Added: 1.00	Units: mL		
COPPER_00067	Amount Added: 1.00	Units: Packet	Run Reagent	
1-Br2nit 50ng_00008	Amount Added: 10.00	Units: uL	Run Reagent	

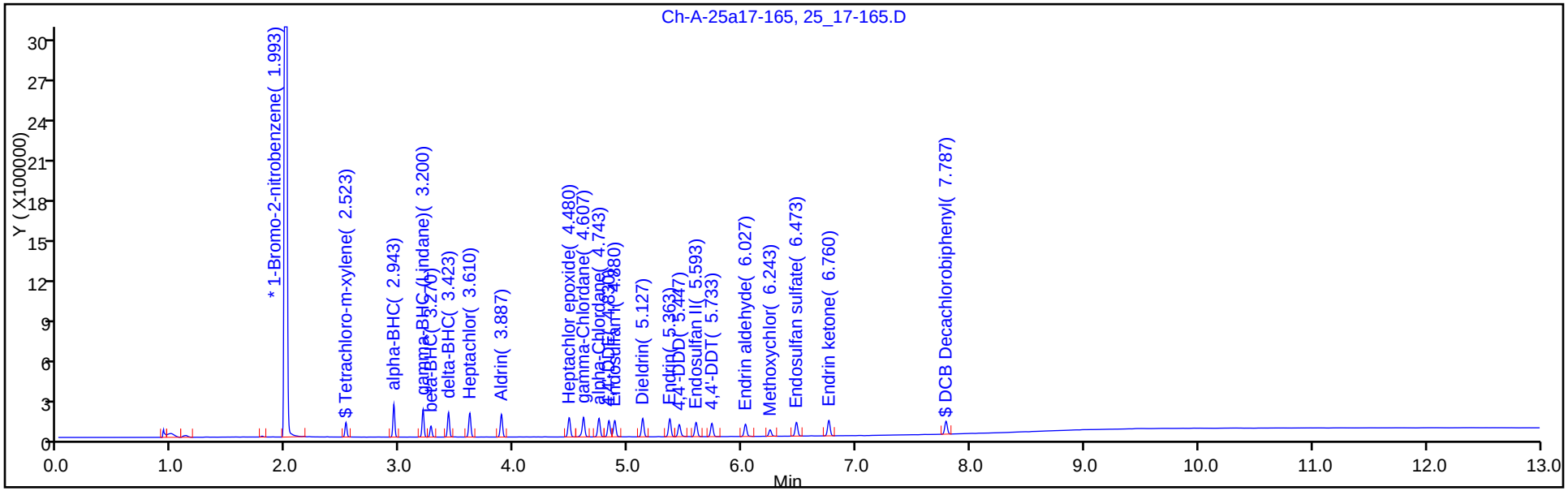
Report Date: 21-Jul-2017 07:04:13 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

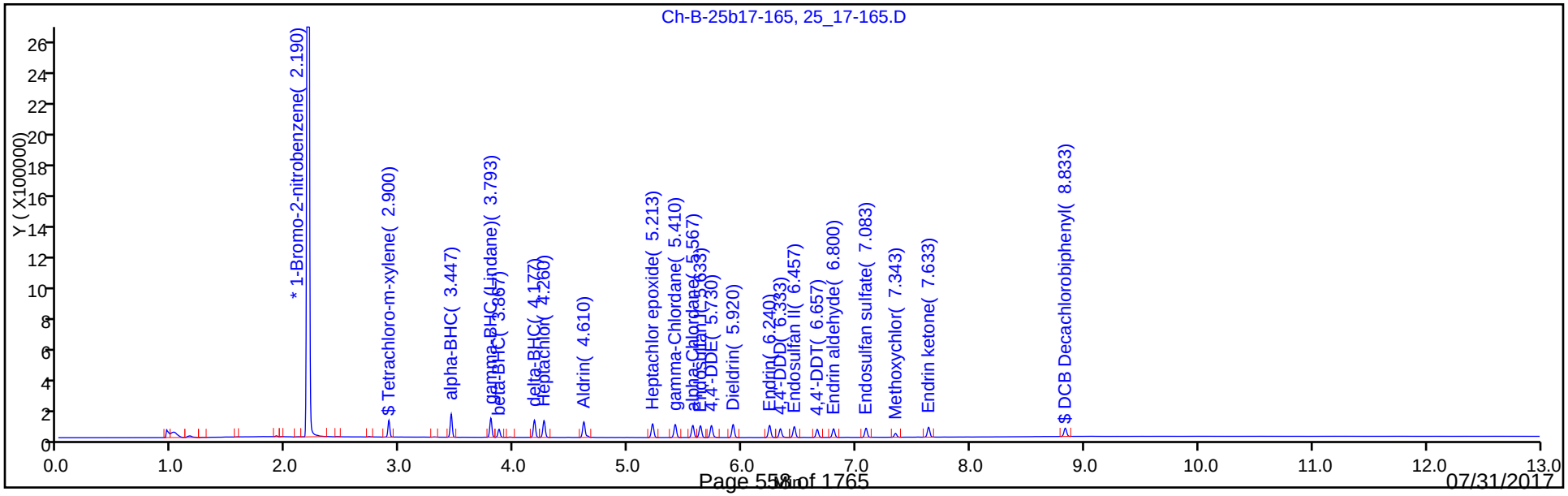
Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\25_17-165.D

Injection Date:	20-Jul-2017 12:42:26	Instrument ID:	HP6890-25	Operator ID:	BufTCHROM
Lims ID:	std5			Worklist Smp#:	40
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IS-8081	Limit Group:	GC - 8081B IS ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



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

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1 Analy Batch No.: 367911

SDG No.:

Instrument ID: HP6890-25 GC Column: RTX-CLPII ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/20/2017 11:23 Calibration End Date: 07/20/2017 12:42 Calibration ID: 30920

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD5 480-367911/40	25_17-165.D
Level 2	STD4 480-367911/39	25_17-164.D
Level 3	STD3 480-367911/38	25_17-163.D
Level 4	STD2 480-367911/37	25_17-162.D
Level 5	STD1 480-367911/36	25_17-161.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
alpha-BHC	1.7074	1.8589	2.1523	2.0681	2.0049	Lin1	-0.002	2.0639							0.9990		0.9900
gamma-BHC (Lindane)	1.4941	1.5649	1.8147	1.7595	1.7345	Lin1	-0.001	1.7683							0.9990		0.9900
beta-BHC	0.6548	0.6845	0.7598	0.7450	0.7346	Lin1	0	0.7463							1.0000		0.9900
delta-BHC	1.4134	1.5770	1.8602	1.8172	1.7824	Lin1	-0.002	1.8253							0.9990		0.9900
Heptachlor	1.4662	1.5622	1.7291	1.6353	1.5681	Lin1	0	1.6197							0.9980		0.9900
Aldrin	1.4945	1.5114	1.6951	1.6236	1.5648	Lin1	0	1.6086							0.9990		0.9900
Heptachlor epoxide	1.2484	1.2776	1.4085	1.3370	1.2941	Lin1	0	1.3282							0.9990		0.9900
gamma-Chlordane	1.2123	1.3138	1.5230	1.4813	1.4445	Lin1	-0.001	1.4811							0.9990		0.9900
alpha-Chlordane	1.1279	1.1642	1.3395	1.3211	1.3176	Lin1	-0.001	1.3329							1.0000		0.9900
Endosulfan I	1.0928	1.1443	1.2585	1.1989	1.1553	Lin1	0	1.1886							0.9990		0.9900
4,4'-DDE	1.1325	1.2210	1.4254	1.3919	1.3537	Lin1	-0.001	1.3894							0.9990		0.9900
Dieldrin	1.1946	1.2861	1.4599	1.3985	1.3518	Lin1	-0.001	1.3919							0.9990		0.9900
Endrin	1.1222	1.1891	1.3410	1.2872	1.2442	Lin1	-0.001	1.2797							0.9990		0.9900
4,4'-DDD	0.8634	0.9146	1.0948	1.0831	1.0610	Lin1	-0.001	1.0848							1.0000		0.9900
Endosulfan II	1.0093	1.0481	1.1579	1.1205	1.0828	Lin1	0	1.1108							0.9990		0.9900
4,4'-DDT	0.7344	0.8317	1.0809	1.0957	1.0830	Lin1	-0.002	1.1065							1.0000		0.9900
Endrin aldehyde	0.7935	0.8195	0.8845	0.8632	0.8342	Lin1	0	0.8538							0.9990		0.9900
Endosulfan sulfate	0.8590	0.8992	0.9905	0.9792	0.9496	Lin1	-0.001	0.9708							0.9990		0.9900
Methoxychlor	0.3490	0.3875	0.4736	0.4859	0.4843	Lin1	-0.001	0.4908							1.0000		0.9900
Endrin ketone	0.9110	0.9708	1.1131	1.1066	1.0815	Lin1	-0.001	1.1042							1.0000		0.9900
Tetrachloro-m-xylene	1.1695	1.2034	1.3390	1.2863	1.2498	Lin1	0	1.2800							0.9990		0.9900
DCB Decachlorobiphenyl	0.8053	0.8013	0.8274	0.8045	0.7893	Lin1	0.0001	0.7994							1.0000		0.9900

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

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

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1 Analy Batch No.: 367911

SDG No.:

Instrument ID: HP6890-25 GC Column: RTX-CLPII ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/20/2017 11:23 Calibration End Date: 07/20/2017 12:42 Calibration ID: 30920

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD5 480-367911/40	25_17-165.D
Level 2	STD4 480-367911/39	25_17-164.D
Level 3	STD3 480-367911/38	25_17-163.D
Level 4	STD2 480-367911/37	25_17-162.D
Level 5	STD1 480-367911/36	25_17-161.D

ANALYTE	IS REF	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	BNB	Lin1	181501	382657	2205389	4327895	6086395	0.00500	0.0100	0.0500	0.100	0.150
gamma-BHC (Lindane)	BNB	Lin1	158826	322126	1859476	3682220	5265318	0.00500	0.0100	0.0500	0.100	0.150
beta-BHC	BNB	Lin1	69609	140907	778546	1559143	2230068	0.00500	0.0100	0.0500	0.100	0.150
delta-BHC	BNB	Lin1	150253	324630	1906142	3802962	5410855	0.00500	0.0100	0.0500	0.100	0.150
Heptachlor	BNB	Lin1	155864	321573	1771775	3422261	4760376	0.00500	0.0100	0.0500	0.100	0.150
Aldrin	BNB	Lin1	158874	311120	1736921	3397671	4750207	0.00500	0.0100	0.0500	0.100	0.150
Heptachlor epoxide	BNB	Lin1	132707	262983	1443231	2797907	3928434	0.00500	0.0100	0.0500	0.100	0.150
gamma-Chlordane	BNB	Lin1	128866	270450	1560556	3099952	4385102	0.00500	0.0100	0.0500	0.100	0.150
alpha-Chlordane	BNB	Lin1	119899	239641	1372547	2764770	3999723	0.00500	0.0100	0.0500	0.100	0.150
Endosulfan I	BNB	Lin1	116164	235549	1289575	2509064	3507119	0.00500	0.0100	0.0500	0.100	0.150
4,4'-DDE	BNB	Lin1	120388	251350	1460600	2912946	4109303	0.00500	0.0100	0.0500	0.100	0.150
Dieldrin	BNB	Lin1	126988	264749	1495948	2926621	4103709	0.00500	0.0100	0.0500	0.100	0.150
Endrin	BNB	Lin1	119295	244764	1374103	2693818	3776963	0.00500	0.0100	0.0500	0.100	0.150
4,4'-DDD	BNB	Lin1	91778	188277	1121860	2266556	3220941	0.00500	0.0100	0.0500	0.100	0.150
Endosulfan II	BNB	Lin1	107295	215751	1186491	2344792	3286959	0.00500	0.0100	0.0500	0.100	0.150
4,4'-DDT	BNB	Lin1	78071	171206	1107622	2292895	3287650	0.00500	0.0100	0.0500	0.100	0.150
Endrin aldehyde	BNB	Lin1	84354	168699	906360	1806433	2532436	0.00500	0.0100	0.0500	0.100	0.150
Endosulfan sulfate	BNB	Lin1	91315	185100	1014907	2049266	2882717	0.00500	0.0100	0.0500	0.100	0.150
Methoxychlor	BNB	Lin1	37096	79767	485319	1016763	1470298	0.00500	0.0100	0.0500	0.100	0.150
Endrin ketone	BNB	Lin1	96843	199838	1140583	2315790	3283127	0.00500	0.0100	0.0500	0.100	0.150
Tetrachloro-m-xylene	BNB	Lin1	124318	247727	1372006	2691792	3794119	0.00500	0.0100	0.0500	0.100	0.150
DCB Decachlorobiphenyl	BNB	Lin1	85605	164949	847819	1683638	2396070	0.00500	0.0100	0.0500	0.100	0.150

Curve Type Legend:
Lin1 = Linear 1/conc ISTD

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\25_17-161.D
Lims ID: std1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 20-Jul-2017 11:23:55 ALS Bottle#: 0 Worklist Smp#: 36
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, CN10839003
Operator ID: BufTCHROM Instrument ID: HP6890-25
Sublist: chrom-IS-8081*sub13

Method: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\IS-8081.m
Limit Group: GC - 8081B IS ICAL
Last Update: 21-Jul-2017 07:04:06 Calib Date: 20-Jul-2017 14:40:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\25_17-171.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK012

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 44 1-Bromo-2-nitrobenzene							
1	1.997	1.993	0.004	14021348	0.5000	0.5000	
2	2.200	2.190	0.010	10118948	0.5000	0.5000	
						RPD = 0.00	
$ 4 Tetrachloro-m-xylene							
1	2.527	2.520	0.007	4195356	0.1500	0.1531	
2	2.913	2.900	0.013	3794119	0.1500	0.1468	
						RPD = 4.16	
6 alpha-BHC							
1	2.950	2.943	0.007	8712119	0.1500	0.1462	
2	3.460	3.447	0.013	6086395	0.1500	0.1465	
						RPD = 0.16	
7 gamma-BHC (Lindane)							
1	3.207	3.197	0.010	7755592	0.1500	0.1465	
2	3.810	3.793	0.017	5265318	0.1500	0.1479	
						RPD = 0.95	
8 beta-BHC							
1	3.277	3.267	0.010	3117547	0.1500	0.1498	
2	3.880	3.863	0.017	2230068	0.1500	0.1483	
						RPD = 1.04	
9 delta-BHC							
1	3.430	3.420	0.010	7775718	0.1500	0.1473	
2	4.190	4.177	0.013	5410855	0.1500	0.1476	
						RPD = 0.16	
11 Heptachlor							
1	3.617	3.607	0.010	6601656	0.1500	0.1443	
2	4.277	4.260	0.017	4760376	0.1500	0.1455	
						RPD = 0.82	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
12 Aldrin							
1	3.893	3.887	0.006	6839396	0.1500	0.1451	
2	4.627	4.610	0.017	4750207	0.1500	0.1462	
						RPD = 0.77	
14 Heptachlor epoxide							
1	4.490	4.480	0.010	5736978	0.1500	0.1446	
2	5.230	5.213	0.017	3928434	0.1500	0.1463	
						RPD = 1.21	
16 gamma-Chlordane							
1	4.613	4.607	0.006	6821947	0.1500	0.1466	
2	5.427	5.413	0.014	4385102	0.1500	0.1472	
						RPD = 0.36	
17 alpha-Chlordane							
1	4.750	4.740	0.010	6440908	0.1500	0.1467	
2	5.580	5.567	0.013	3999723	0.1500	0.1492	
						RPD = 1.63	
18 4,4'-DDE							
1	4.833	4.823	0.010	6333464	0.1500	0.1463	
2	5.740	5.727	0.013	4109303	0.1500	0.1470	
						RPD = 0.50	
19 Endosulfan I							
1	4.887	4.877	0.010	5241380	0.1500	0.1449	
2	5.647	5.633	0.014	3507119	0.1500	0.1460	
						RPD = 0.75	
21 Dieldrin							
1	5.133	5.123	0.010	5961510	0.1500	0.1458	
2	5.933	5.920	0.013	4103709	0.1500	0.1463	
						RPD = 0.33	
23 Endrin							
1	5.370	5.360	0.010	5580089	0.1500	0.1443	
2	6.253	6.240	0.013	3776963	0.1500	0.1463	
						RPD = 1.41	
24 4,4'-DDD							
1	5.447	5.440	0.007	5131521	0.1500	0.1460	
2	6.347	6.333	0.014	3220941	0.1500	0.1478	
						RPD = 1.21	
27 Endosulfan II							
1	5.600	5.590	0.010	4988199	0.1500	0.1448	
2	6.470	6.457	0.013	3286959	0.1500	0.1466	
						RPD = 1.25	
28 4,4'-DDT							
1	5.737	5.730	0.007	5535921	0.1500	0.1468	
2	6.670	6.657	0.013	3287650	0.1500	0.1487	
						RPD = 1.31	
29 Endrin aldehyde							
1	6.033	6.023	0.010	4025863	0.1500	0.1454	
2	6.817	6.803	0.014	2532436	0.1500	0.1468	
						RPD = 0.99	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
30 Methoxychlor							
1	6.247	6.240	0.007	2379153	0.1500	0.1466	
2	7.357	7.347	0.010	1470298	0.1500	0.1497	
						RPD = 2.08	
32 Endosulfan sulfate							
1	6.480	6.470	0.010	4501001	0.1500	0.1452	
2	7.100	7.087	0.013	2882717	0.1500	0.1473	
						RPD = 1.38	
33 Endrin ketone							
1	6.763	6.757	0.006	5238606	0.1500	0.1452	
2	7.650	7.637	0.013	3283127	0.1500	0.1478	
						RPD = 1.78	
$ 34 DCB Decachlorobiphenyl							
1	7.793	7.787	0.006	4201416	0.1500	0.1473	
2	8.850	8.837	0.013	2396070	0.1500	0.1480	
						RPD = 0.46	
S 1 BHC, Total							
1						0.5899	
2						0.5902	
						RPD = 0.05	

Reagents:

PEST_CAL_.15_00024	Amount Added: 1.00	Units: mL	
COPPER_00067	Amount Added: 1.00	Units: Packet	Run Reagent
1-Br2nit 50ng_00008	Amount Added: 10.00	Units: uL	Run Reagent

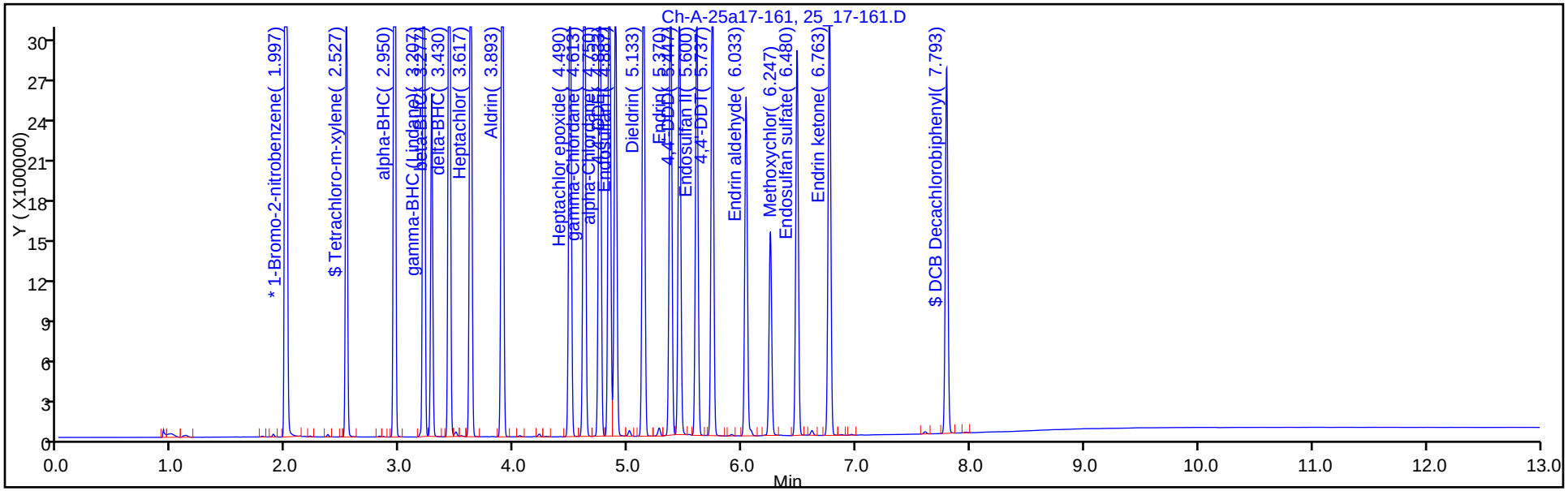
Report Date: 21-Jul-2017 07:04:06 Chrom Revision: 2.2 20-Jun-2017 07:42:38

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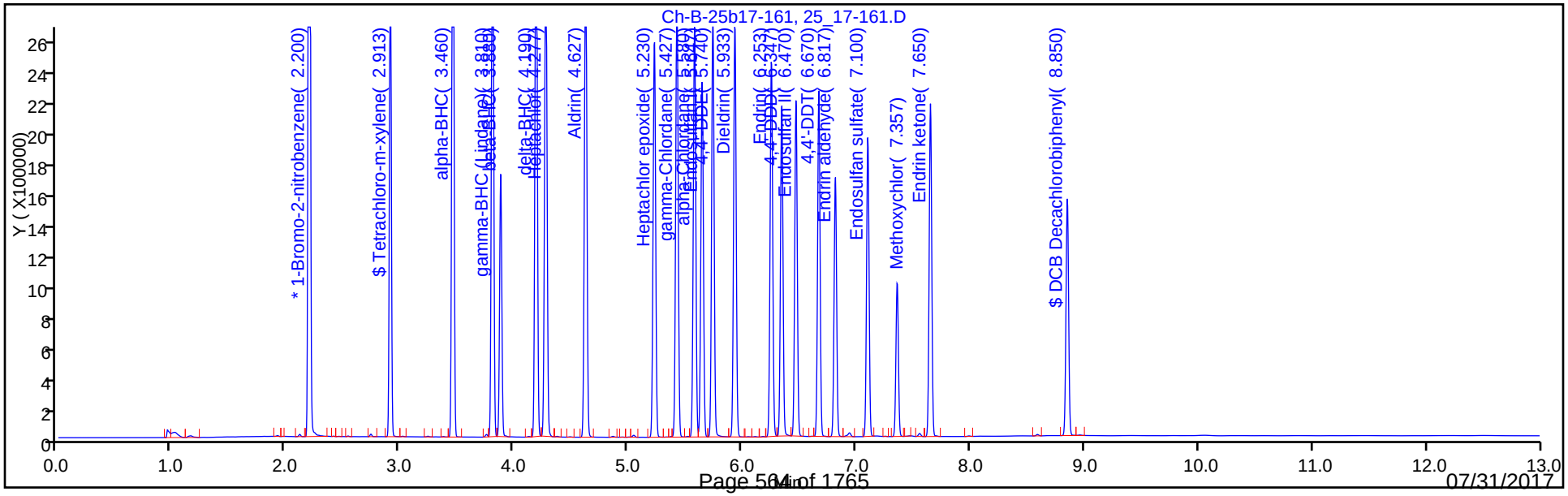
Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\25_17-161.D

Injection Date:	20-Jul-2017 11:23:55	Instrument ID:	HP6890-25	Operator ID:	BufTCHROM
Lims ID:	std1			Worklist Smp#:	36
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IS-8081	Limit Group:	GC - 8081B IS 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: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\25_17-162.D
Lims ID: std2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 20-Jul-2017 11:43:38 ALS Bottle#: 0 Worklist Smp#: 37
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, CN10839003
Operator ID: BufTCHROM Instrument ID: HP6890-25
Sublist: chrom-IS-8081*sub13

Method: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\IS-8081.m
Limit Group: GC - 8081B IS ICAL
Last Update: 21-Jul-2017 07:04:09 Calib Date: 20-Jul-2017 14:40:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\25_17-171.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK012

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 44 1-Bromo-2-nitrobenzene							
1	1.997	1.993	0.004	14590133	0.5000	0.5000	
2	2.197	2.190	0.007	10463611	0.5000	0.5000	
						RPD = 0.00	
$ 4 Tetrachloro-m-xylene							
1	2.523	2.520	0.003	2760769	0.1000	0.0972	
2	2.907	2.900	0.007	2691792	0.1000	0.1008	
						RPD = 3.70	
6 alpha-BHC							
1	2.947	2.943	0.004	6238209	0.1000	0.1008	
2	3.453	3.447	0.006	4327895	0.1000	0.1010	
						RPD = 0.14	
7 gamma-BHC (Lindane)							
1	3.200	3.197	0.003	5534975	0.1000	0.1007	
2	3.800	3.793	0.007	3682220	0.1000	0.1003	
						RPD = 0.38	
8 beta-BHC							
1	3.270	3.267	0.003	2145019	0.1000	0.0993	
2	3.873	3.863	0.010	1559143	0.1000	0.1004	
						RPD = 1.19	
9 delta-BHC							
1	3.427	3.420	0.007	5491533	0.1000	0.1003	
2	4.183	4.177	0.006	3802962	0.1000	0.1007	
						RPD = 0.34	
11 Heptachlor							
1	3.613	3.607	0.006	4814374	0.1000	0.1011	
2	4.270	4.260	0.010	3422261	0.1000	0.1012	
						RPD = 0.15	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
12 Aldrin							
1	3.890	3.887	0.003	4953087	0.1000	0.1010	
2	4.620	4.610	0.010	3397671	0.1000	0.1012	
						RPD = 0.18	
14 Heptachlor epoxide							
1	4.483	4.480	0.003	4172576	0.1000	0.1009	
2	5.223	5.213	0.010	2797907	0.1000	0.1008	
						RPD = 0.07	
16 gamma-Chlordane							
1	4.610	4.607	0.003	4882487	0.1000	0.1010	
2	5.420	5.413	0.007	3099952	0.1000	0.1009	
						RPD = 0.09	
17 alpha-Chlordane							
1	4.747	4.740	0.007	4594368	0.1000	0.1008	
2	5.577	5.567	0.010	2764770	0.1000	0.1000	
						RPD = 0.75	
18 4,4'-DDE							
1	4.830	4.823	0.007	4529294	0.1000	0.1008	
2	5.737	5.727	0.010	2912946	0.1000	0.1011	
						RPD = 0.25	
19 Endosulfan I							
1	4.883	4.877	0.006	3793793	0.1000	0.1007	
2	5.643	5.633	0.010	2509064	0.1000	0.1011	
						RPD = 0.35	
21 Dieldrin							
1	5.130	5.123	0.007	4278445	0.1000	0.1006	
2	5.930	5.920	0.010	2926621	0.1000	0.1010	
						RPD = 0.45	
23 Endrin							
1	5.367	5.360	0.007	4072224	0.1000	0.1011	
2	6.250	6.240	0.010	2693818	0.1000	0.1011	
						RPD = 0.01	
24 4,4'-DDD							
1	5.443	5.440	0.003	3684876	0.1000	0.1011	
2	6.340	6.333	0.007	2266556	0.1000	0.1010	
						RPD = 0.12	
27 Endosulfan II							
1	5.597	5.590	0.007	3620892	0.1000	0.1010	
2	6.467	6.457	0.010	2344792	0.1000	0.1012	
						RPD = 0.23	
28 4,4'-DDT							
1	5.733	5.730	0.003	3945220	0.1000	0.1009	
2	6.667	6.657	0.010	2292895	0.1000	0.1009	
						RPD = 0.00	
29 Endrin aldehyde							
1	6.030	6.023	0.007	2920853	0.1000	0.1013	
2	6.810	6.803	0.007	1806433	0.1000	0.1014	
						RPD = 0.08	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
30 Methoxychlor							
1	6.243	6.240	0.003	1698697	0.1000	0.1007	
2	7.353	7.347	0.006	1016763	0.1000	0.1006	
						RPD = 0.08	
32 Endosulfan sulfate							
1	6.477	6.470	0.007	3275755	0.1000	0.1016	
2	7.097	7.087	0.010	2049266	0.1000	0.1014	
						RPD = 0.15	
33 Endrin ketone							
1	6.760	6.757	0.003	3797484	0.1000	0.1012	
2	7.647	7.637	0.010	2315790	0.1000	0.1011	
						RPD = 0.05	
$ 34 DCB Decachlorobiphenyl							
1	7.790	7.787	0.003	2988955	0.1000	0.1007	
2	8.847	8.837	0.010	1683638	0.1000	0.1005	
						RPD = 0.13	
S 1 BHC, Total							
1						0.4011	
2						0.4024	
						RPD = 0.32	

Reagents:

PEST_CAL_.10_00026	Amount Added: 1.00	Units: mL		
COPPER_00067	Amount Added: 1.00	Units: Packet	Run Reagent	
1-Br2nit 50ng_00008	Amount Added: 10.00	Units: uL	Run Reagent	

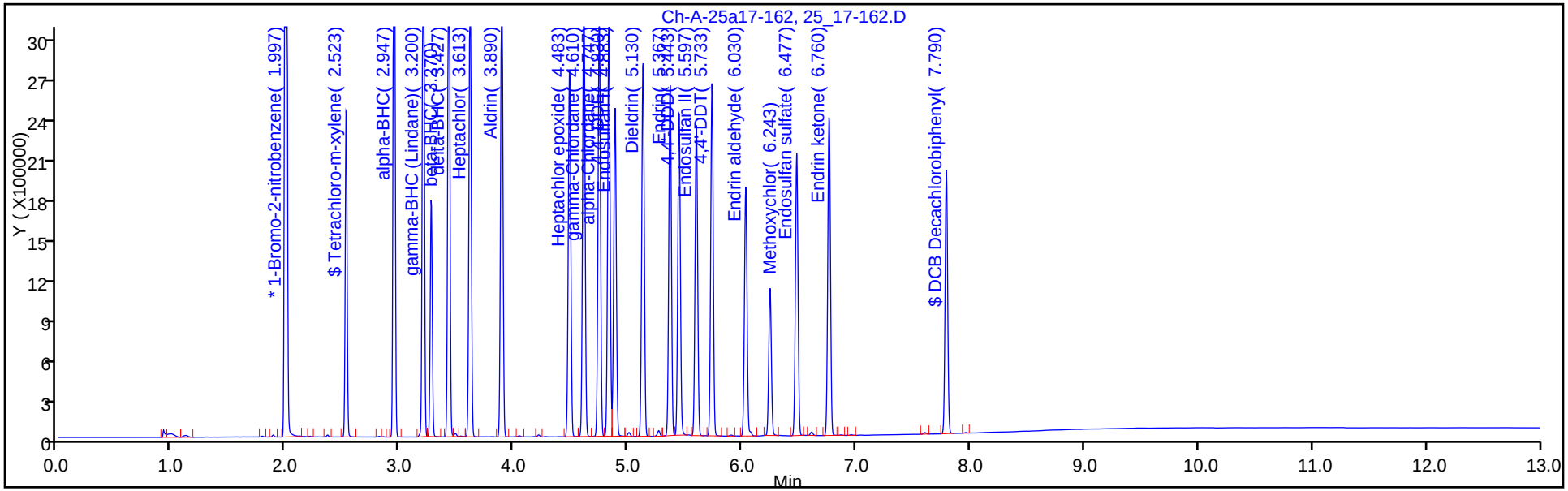
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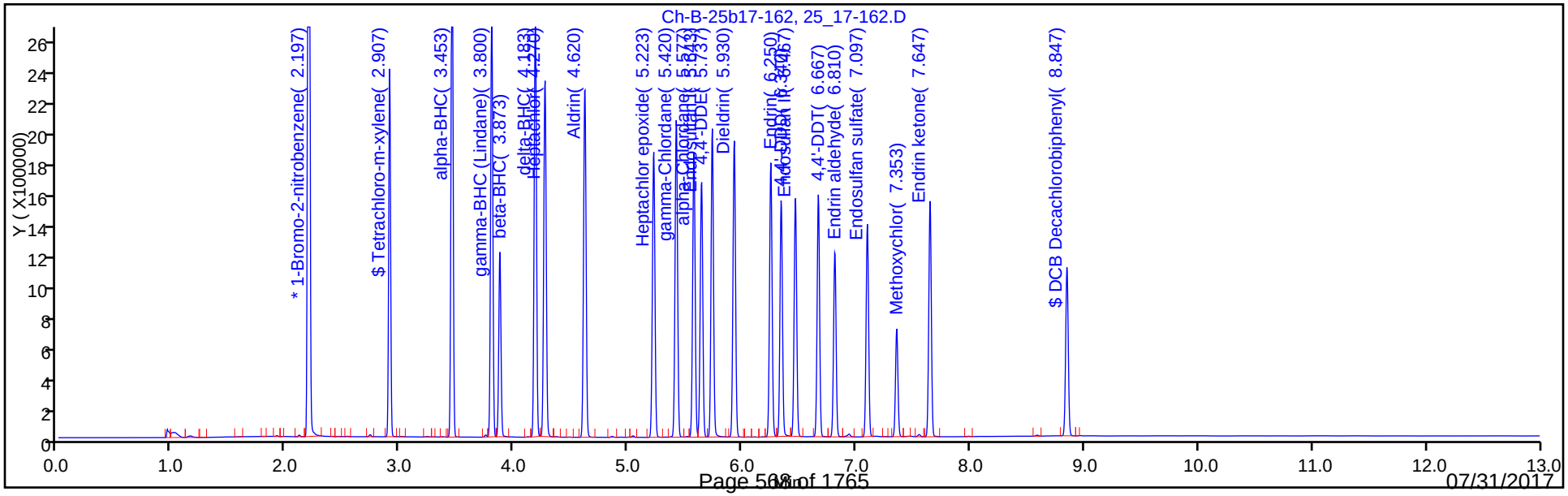
Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\25_17-162.D

Injection Date:	20-Jul-2017 11:43:38	Instrument ID:	HP6890-25	Operator ID:	BufTCHROM
Lims ID:	std2			Worklist Smp#:	37
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IS-8081	Limit Group:	GC - 8081B IS 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: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\25_17-163.D
Lims ID: std3
Client ID:
Sample Type: ICIS Calib Level: 3
Inject. Date: 20-Jul-2017 12:03:16 ALS Bottle#: 0 Worklist Smp#: 38
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, CN10839003
Operator ID: BufTCHROM Instrument ID: HP6890-25
Sublist: chrom-IS-8081*sub13

Method: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\IS-8081.m
Limit Group: GC - 8081B IS ICAL
Last Update: 21-Jul-2017 09:09:49 Calib Date: 20-Jul-2017 14:40:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\25_17-171.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK012

First Level Reviewer: NearyM Date: 20-Jul-2017 14:50:02

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 44 1-Bromo-2-nitrobenzene							
1	1.993	1.993	0.000	14306926	0.5000	0.5000	
2	2.190	2.190	0.000	10246784	0.5000	0.5000	
						RPD = 0.00	
$ 4 Tetrachloro-m-xylene							
1	2.520	2.520	0.000	1377925	0.0500	0.0500	
2	2.900	2.900	0.000	1372006	0.0500	0.0527	
						RPD = 5.20	
6 alpha-BHC							
1	2.943	2.943	0.000	3213244	0.0500	0.0532	
2	3.447	3.447	0.000	2205389	0.0500	0.0529	
						RPD = 0.65	
7 gamma-BHC (Lindane)							
1	3.197	3.197	0.000	2847000	0.0500	0.0531	
2	3.793	3.793	0.000	1859476	0.0500	0.0521	
						RPD = 1.88	
8 beta-BHC							
1	3.267	3.267	0.000	1078766	0.0500	0.0512	
2	3.863	3.863	0.000	778546	0.0500	0.0515	
						RPD = 0.63	
9 delta-BHC							
1	3.420	3.420	0.000	2800164	0.0500	0.0526	
2	4.177	4.177	0.000	1906142	0.0500	0.0521	
						RPD = 1.10	
11 Heptachlor							
1	3.607	3.607	0.000	2571235	0.0500	0.0550	
2	4.260	4.260	0.000	1771775	0.0500	0.0536	
						RPD = 2.44	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
12 Aldrin							
1	3.887	3.887	0.000	2601768	0.0500	0.0542	
2	4.610	4.610	0.000	1736921	0.0500	0.0530	
						RPD = 2.32	
14 Heptachlor epoxide							
1	4.480	4.480	0.000	2231095	0.0500	0.0548	
2	5.213	5.213	0.000	1443231	0.0500	0.0532	
						RPD = 3.01	
16 gamma-Chlordane							
1	4.607	4.607	0.000	2493727	0.0500	0.0528	
2	5.413	5.413	0.000	1560556	0.0500	0.0523	
						RPD = 0.93	
17 alpha-Chlordane							
1	4.740	4.740	0.000	2351663	0.0500	0.0528	
2	5.567	5.567	0.000	1372547	0.0500	0.0511	
						RPD = 3.30	
18 4,4'-DDE							
1	4.823	4.823	0.000	2326143	0.0500	0.0532	
2	5.727	5.727	0.000	1460600	0.0500	0.0522	
						RPD = 1.96	
19 Endosulfan I							
1	4.877	4.877	0.000	2017014	0.0500	0.0545	
2	5.633	5.633	0.000	1289575	0.0500	0.0532	
						RPD = 2.48	
21 Dieldrin							
1	5.123	5.123	0.000	2247573	0.0500	0.0540	
2	5.920	5.920	0.000	1495948	0.0500	0.0530	
						RPD = 1.76	
23 Endrin							
1	5.360	5.360	0.000	2175102	0.0500	0.0549	
2	6.240	6.240	0.000	1374103	0.0500	0.0529	
						RPD = 3.78	
24 4,4'-DDD							
1	5.440	5.440	0.000	1887017	0.0500	0.0532	
2	6.333	6.333	0.000	1121860	0.0500	0.0516	
						RPD = 3.18	
27 Endosulfan II							
1	5.590	5.590	0.000	1912808	0.0500	0.0544	
2	6.457	6.457	0.000	1186491	0.0500	0.0525	
						RPD = 3.63	
28 4,4'-DDT							
1	5.730	5.730	0.000	1997848	0.0500	0.0527	
2	6.657	6.657	0.000	1107622	0.0500	0.0507	
						RPD = 3.81	
29 Endrin aldehyde							
1	6.023	6.023	0.000	1519646	0.0500	0.0536	
2	6.803	6.803	0.000	906360	0.0500	0.0521	
						RPD = 2.93	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
30 Methoxychlor							
1	6.240	6.240	0.000	871432	0.0500	0.0529	
2	7.347	7.347	0.000	485319	0.0500	0.0499	
						RPD = 5.85	
32 Endosulfan sulfate							
1	6.470	6.470	0.000	1691547	0.0500	0.0534	
2	7.087	7.087	0.000	1014907	0.0500	0.0516	
						RPD = 3.61	
33 Endrin ketone							
1	6.757	6.757	0.000	1982962	0.0500	0.0539	
2	7.637	7.637	0.000	1140583	0.0500	0.0513	
						RPD = 4.90	
$ 34 DCB Decachlorobiphenyl							
1	7.787	7.787	0.000	1523655	0.0500	0.0522	
2	8.837	8.837	0.000	847819	0.0500	0.0516	
						RPD = 1.17	

Reagents:

PEST_CCV_.05_00239	Amount Added: 1.00	Units: mL	
COPPER_00067	Amount Added: 1.00	Units: Packet	Run Reagent
1-Br2nit 50ng_00008	Amount Added: 10.00	Units: uL	Run Reagent

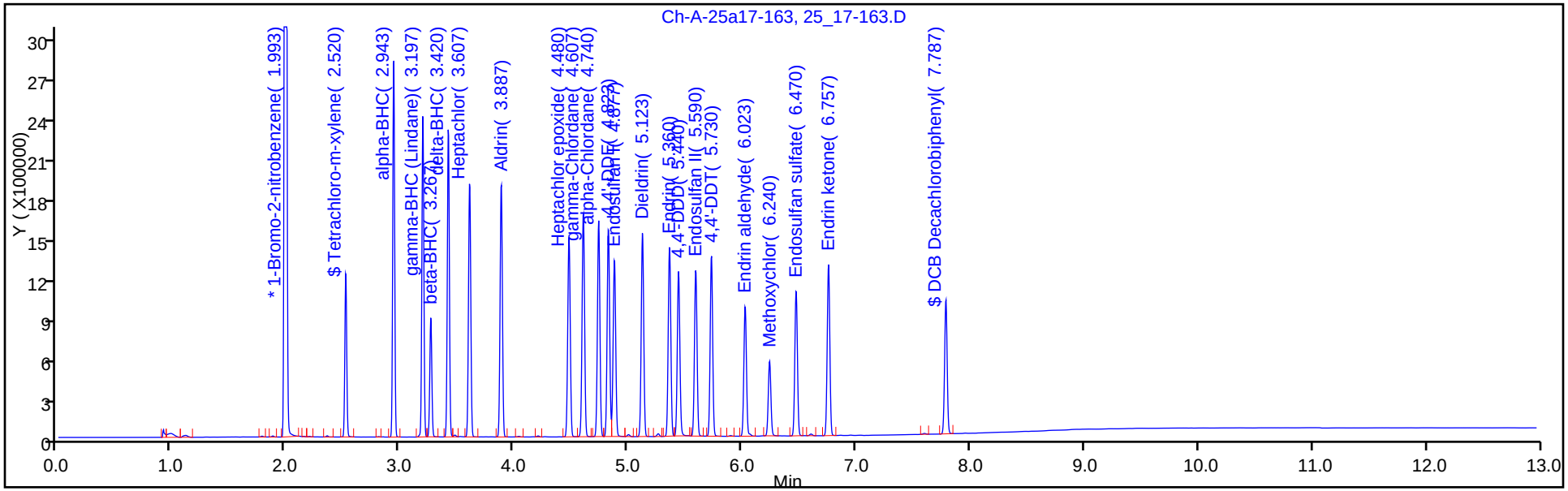
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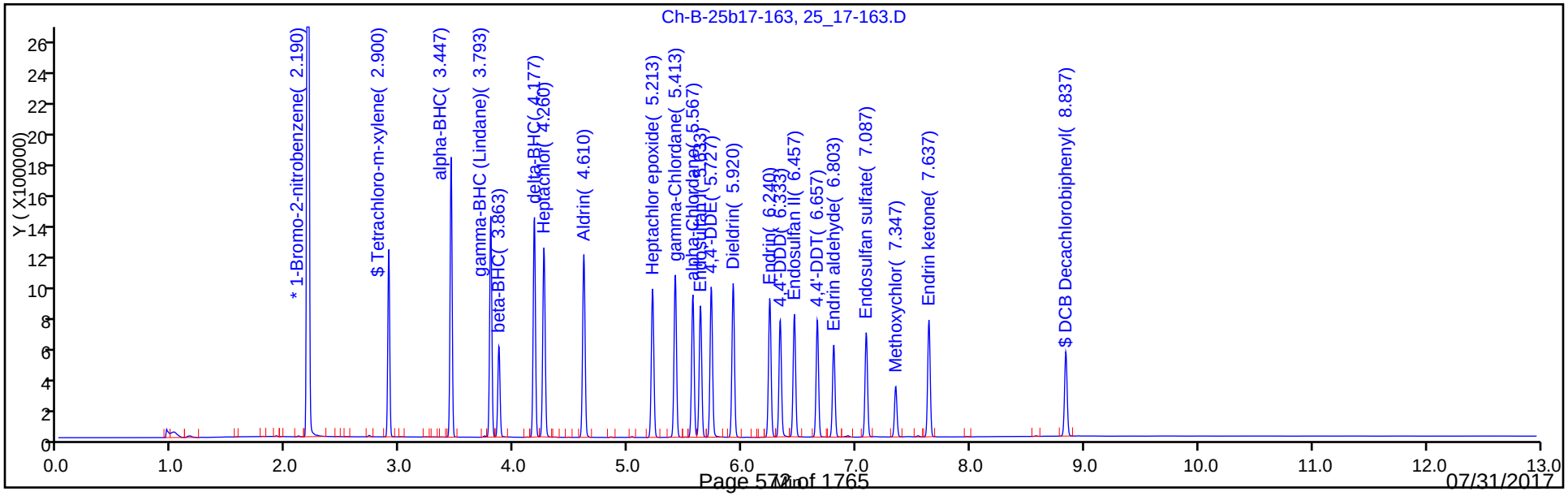
Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\25_17-163.D

Injection Date:	20-Jul-2017 12:03:16	Instrument ID:	HP6890-25	Operator ID:	BufTCHROM
Lims ID:	std3			Worklist Smp#:	38
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IS-8081	Limit Group:	GC - 8081B IS 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: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\25_17-164.D
Lims ID: std4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 20-Jul-2017 12:22:49 ALS Bottle#: 0 Worklist Smp#: 39
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, CN10839003
Operator ID: BufTCHROM Instrument ID: HP6890-25
Sublist: chrom-IS-8081*sub13

Method: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\IS-8081.m
Limit Group: GC - 8081B IS ICAL
Last Update: 21-Jul-2017 07:04:11 Calib Date: 20-Jul-2017 14:40:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\25_17-171.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK012

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 44 1-Bromo-2-nitrobenzene							
1	1.993	1.993	0.000	14421304	0.5000	0.5000	
2	2.190	2.190	0.000	10292415	0.5000	0.5000	
						RPD = 0.00	
$ 4 Tetrachloro-m-xylene							
1	2.523	2.520	0.003	238484	0.0100	0.009465	
2	2.900	2.900	0.000	247727	0.0100	0.009755	
						RPD = 3.01	
6 alpha-BHC							
1	2.943	2.943	0.000	568795	0.0100	0.009848	
2	3.447	3.447	0.000	382657	0.0100	0.009767	
						RPD = 0.83	
7 gamma-BHC (Lindane)							
1	3.200	3.197	0.003	505210	0.0100	0.009840	
2	3.793	3.793	0.000	322126	0.0100	0.009646	
						RPD = 1.99	
8 beta-BHC							
1	3.270	3.267	0.003	194226	0.0100	0.009622	
2	3.867	3.863	0.004	140907	0.0100	0.009780	
						RPD = 1.62	
9 delta-BHC							
1	3.423	3.420	0.003	482768	0.0100	0.009807	
2	4.177	4.177	0.000	324630	0.0100	0.009740	
						RPD = 0.68	
11 Heptachlor							
1	3.610	3.607	0.003	483523	0.0100	0.0101	
2	4.260	4.260	0.000	321573	0.0100	0.009897	
						RPD = 1.91	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
12 Aldrin							
1	3.887	3.887	0.000	473477	0.0100	0.0100	
2	4.610	4.610	0.000	311120	0.0100	0.009679	
						RPD = 2.87	
14 Heptachlor epoxide							
1	4.480	4.480	0.000	431108	0.0100	0.0101	
2	5.213	5.213	0.000	262983	0.0100	0.009787	
						RPD = 3.58	
16 gamma-Chlordane							
1	4.607	4.607	0.000	447907	0.0100	0.009701	
2	5.413	5.413	0.000	270450	0.0100	0.009734	
						RPD = 0.34	
17 alpha-Chlordane							
1	4.740	4.740	0.000	418316	0.0100	0.009754	
2	5.567	5.567	0.000	239641	0.0100	0.009613	
						RPD = 1.46	
18 4,4'-DDE							
1	4.827	4.823	0.004	396422	0.0100	0.009736	
2	5.727	5.727	0.000	251350	0.0100	0.009691	
						RPD = 0.46	
19 Endosulfan I							
1	4.880	4.877	0.003	389280	0.0100	0.0102	
2	5.633	5.633	0.000	235549	0.0100	0.009860	
						RPD = 3.77	
21 Dieldrin							
1	5.127	5.123	0.004	410766	0.0100	0.0099	
2	5.920	5.920	0.000	264749	0.0100	0.009813	
						RPD = 1.00	
23 Endrin							
1	5.363	5.360	0.003	411532	0.0100	0.0101	
2	6.240	6.240	0.000	244764	0.0100	0.009790	
						RPD = 2.73	
24 4,4'-DDD							
1	5.443	5.440	0.003	320289	0.0100	0.009761	
2	6.333	6.333	0.000	188277	0.0100	0.009546	
						RPD = 2.23	
27 Endosulfan II							
1	5.593	5.590	0.003	362479	0.0100	0.0103	
2	6.457	6.457	0.000	215751	0.0100	0.009798	
						RPD = 4.60	
28 4,4'-DDT							
1	5.730	5.730	0.000	327862	0.0100	0.009620	
2	6.657	6.657	0.000	171206	0.0100	0.009414	
						RPD = 2.17	
29 Endrin aldehyde							
1	6.023	6.023	0.000	293235	0.0100	0.0100	
2	6.800	6.803	-0.003	168699	0.0100	0.009856	
						RPD = 1.82	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
30 Methoxychlor							
1	6.240	6.240	0.000	158894	0.0100	0.0099	
2	7.347	7.347	0.000	79767	0.0100	0.009552	
						RPD = 4.03	
32 Endosulfan sulfate							
1	6.473	6.470	0.003	321289	0.0100	0.0100	
2	7.087	7.087	0.000	185100	0.0100	0.009802	
						RPD = 2.07	
33 Endrin ketone							
1	6.757	6.757	0.000	370765	0.0100	0.0100	
2	7.637	7.637	0.000	199838	0.0100	0.009701	
						RPD = 3.24	
$ 34 DCB Decachlorobiphenyl							
1	7.783	7.787	-0.004	295097	0.0100	0.009898	
2	8.837	8.837	0.000	164949	0.0100	0.0099	
						RPD = 0.11	
S 1 BHC, Total							
1						0.0391	
2						0.0389	
						RPD = 0.47	

Reagents:

pest_cal_.01_00017	Amount Added: 1.00	Units: mL	
COPPER_00067	Amount Added: 1.00	Units: Packet	Run Reagent
1-Br2nit 50ng_00008	Amount Added: 10.00	Units: uL	Run Reagent

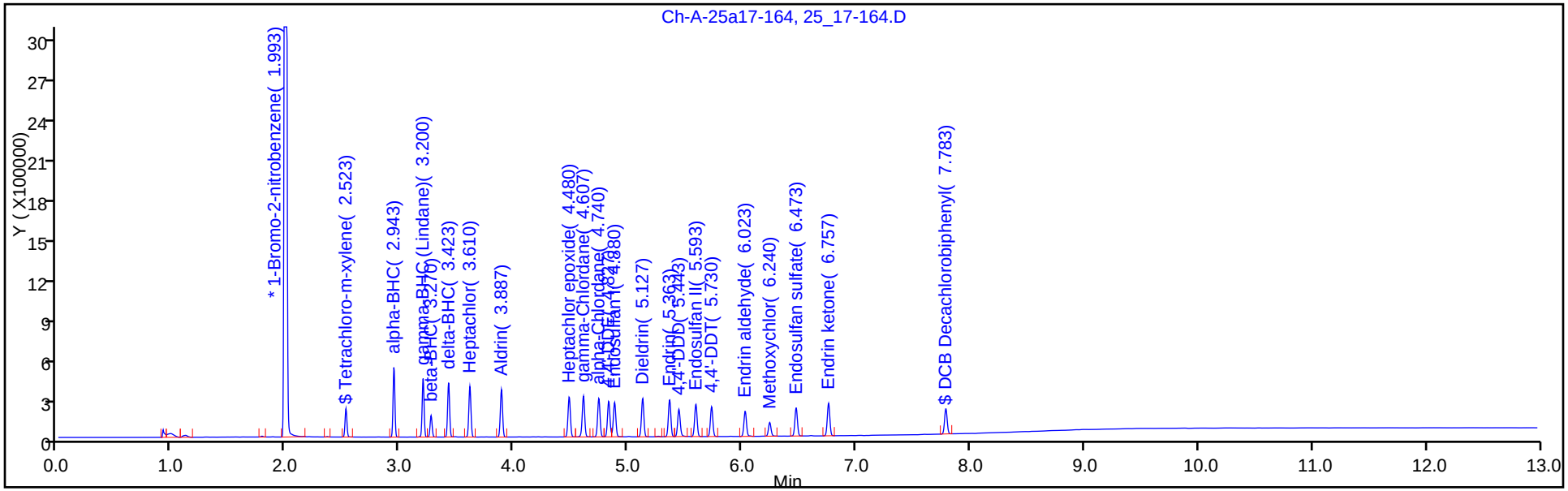
Report Date: 21-Jul-2017 07:04:11 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

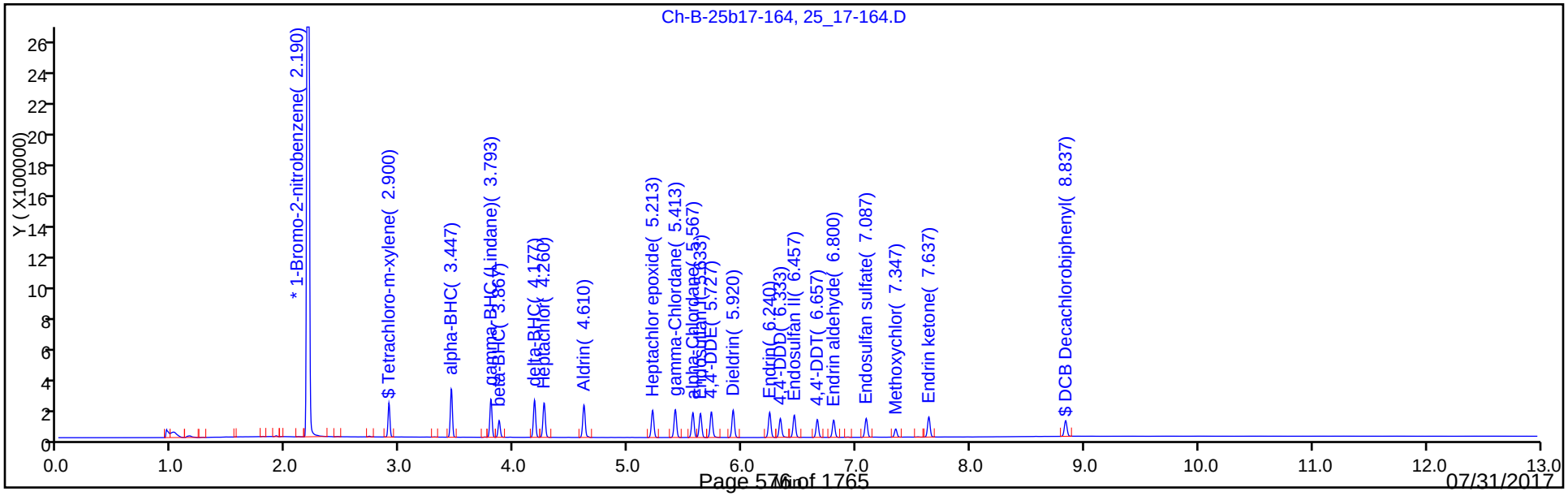
Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\25_17-164.D

Injection Date:	20-Jul-2017 12:22:49	Instrument ID:	HP6890-25	Operator ID:	BufTCHROM
Lims ID:	std4			Worklist Smp#:	39
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IS-8081	Limit Group:	GC - 8081B IS 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: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\25_17-165.D
Lims ID: std5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 20-Jul-2017 12:42:26 ALS Bottle#: 0 Worklist Smp#: 40
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, CN10839003
Operator ID: BufTCHROM Instrument ID: HP6890-25
Sublist: chrom-IS-8081*sub13

Method: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\IS-8081.m
Limit Group: GC - 8081B IS ICAL
Last Update: 21-Jul-2017 07:04:13 Calib Date: 20-Jul-2017 14:40:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\25_17-171.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK012

First Level Reviewer: NearyM Date: 20-Jul-2017 14:15:07

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 44 1-Bromo-2-nitrobenzene							
1	1.993	1.993	0.000	14818153	0.5000	0.5000	
2	2.190	2.190	0.000	10630257	0.5000	0.5000	
						RPD = 0.00	
$ 4 Tetrachloro-m-xylene							
1	2.523	2.520	0.003	123780	0.005000	0.005308	
2	2.900	2.900	0.000	124318	0.005000	0.004921	
						RPD = 7.57	
6 alpha-BHC							
1	2.943	2.943	0.000	267537	0.005000	0.004835	
2	3.447	3.447	0.000	181501	0.005000	0.004896	
						RPD = 1.25	
7 gamma-BHC (Lindane)							
1	3.200	3.197	0.003	238975	0.005000	0.004852	
2	3.793	3.793	0.000	158826	0.005000	0.005021	
						RPD = 3.42	
8 beta-BHC							
1	3.270	3.267	0.003	100012	0.005000	0.005113	
2	3.867	3.863	0.004	69609	0.005000	0.004994	
						RPD = 2.35	
9 delta-BHC							
1	3.423	3.420	0.003	220922	0.005000	0.004906	
2	4.177	4.177	0.000	150253	0.005000	0.004972	
						RPD = 1.33	
11 Heptachlor							
1	3.610	3.607	0.003	231699	0.005000	0.004597	
2	4.260	4.260	0.000	155864	0.005000	0.004778	
						RPD = 3.86	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
12 Aldrin							
1	3.887	3.887	0.000	224528	0.005000	0.004710	
2	4.610	4.610	0.000	158874	0.005000	0.004929	
						RPD = 4.54	
14 Heptachlor epoxide							
1	4.480	4.480	0.000	210453	0.005000	0.004583	
2	5.213	5.213	0.000	132707	0.005000	0.004868	
						RPD = 6.04	
16 gamma-Chlordane							
1	4.607	4.607	0.000	225398	0.005000	0.004937	
2	5.410	5.413	-0.003	128866	0.005000	0.004956	
						RPD = 0.39	
17 alpha-Chlordane							
1	4.743	4.740	0.003	204326	0.005000	0.004910	
2	5.567	5.567	0.000	119899	0.005000	0.005109	
						RPD = 3.98	
18 4,4'-DDE							
1	4.830	4.823	0.007	184289	0.005000	0.004890	
2	5.730	5.727	0.003	120388	0.005000	0.004979	
						RPD = 1.79	
19 Endosulfan I							
1	4.880	4.877	0.003	183357	0.005000	0.004561	
2	5.633	5.633	0.000	116164	0.005000	0.004830	
						RPD = 5.73	
21 Dieldrin							
1	5.127	5.123	0.004	199150	0.005000	0.004759	
2	5.920	5.920	0.000	126988	0.005000	0.004864	
						RPD = 2.18	
23 Endrin							
1	5.363	5.360	0.003	200604	0.005000	0.004611	
2	6.240	6.240	0.000	119295	0.005000	0.004883	
						RPD = 5.72	
24 4,4'-DDD							
1	5.447	5.440	0.007	146389	0.005000	0.004873	
2	6.333	6.333	0.000	91778	0.005000	0.005094	
						RPD = 4.43	
27 Endosulfan II							
1	5.593	5.590	0.003	164627	0.005000	0.004553	
2	6.457	6.457	0.000	107295	0.005000	0.004905	
						RPD = 7.45	
28 4,4'-DDT							
1	5.733	5.730	0.003	150384	0.005000	0.004981	
2	6.657	6.657	0.000	78071	0.005000	0.005216	
						RPD = 4.62	
29 Endrin aldehyde							
1	6.027	6.023	0.004	145766	0.005000	0.004712	
2	6.800	6.803	-0.003	84354	0.005000	0.004904	
						RPD = 4.00	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
30 Methoxychlor							
1	6.243	6.240	0.003	74988	0.005000	0.004813	
2	7.343	7.347	-0.004	37096	0.005000	0.005212	
						RPD = 7.95	
32 Endosulfan sulfate							
1	6.473	6.470	0.003	157455	0.005000	0.004732	
2	7.083	7.087	-0.004	91315	0.005000	0.004964	
						RPD = 4.79	
33 Endrin ketone							
1	6.760	6.757	0.003	178126	0.005000	0.004701	
2	7.633	7.637	-0.004	96843	0.005000	0.005034	
						RPD = 6.84	
$ 34 DCB Decachlorobiphenyl							
1	7.787	7.787	0.000	152247	0.005000	0.004883	
2	8.833	8.837	-0.004	85605	0.005000	0.004922	
						RPD = 0.79	
S 1 BHC, Total							
1						0.0197	
2						0.0199	
						RPD = 0.89	

Reagents:

pest_cal_.005_00017	Amount Added: 1.00	Units: mL		
COPPER_00067	Amount Added: 1.00	Units: Packet	Run Reagent	
1-Br2nit 50ng_00008	Amount Added: 10.00	Units: uL	Run Reagent	

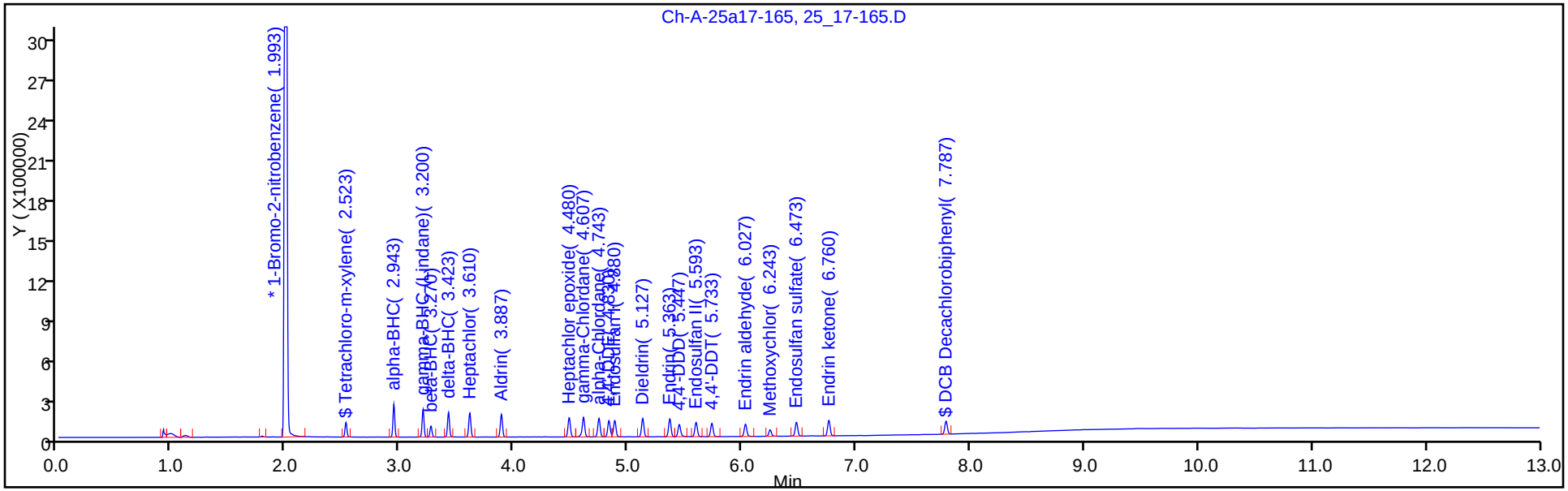
Report Date: 21-Jul-2017 07:04:13 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

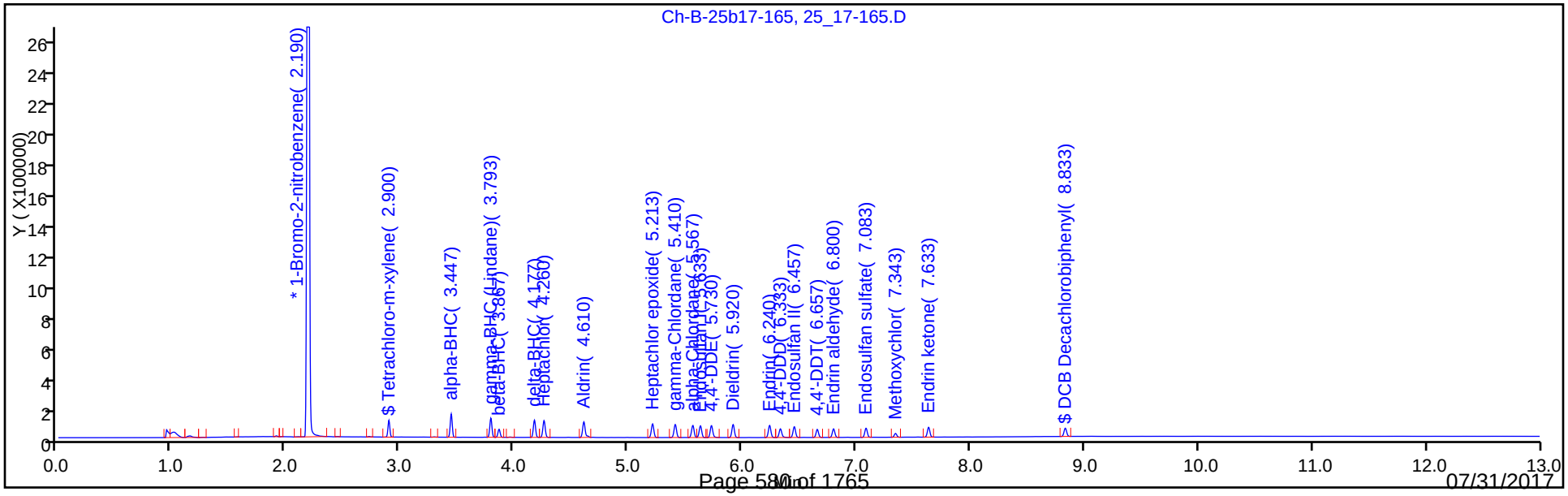
Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\25_17-165.D

Injection Date:	20-Jul-2017 12:42:26	Instrument ID:	HP6890-25	Operator ID:	BufTCHROM
Lims ID:	std5			Worklist Smp#:	40
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IS-8081	Limit Group:	GC - 8081B IS ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1

SDG No.:

Lab Sample ID (1): PEM 480-368232/6 Instrument ID (1): HP6890-25

GC Column (1): RTX-CLPI ID: 0.53(mm) Date Analyzed (1): 07/22/2017 09:49

ANALYTE	RT	RESOLUTION (%)
Endrin aldehyde		100.0
Tetrachloro-m-xylene	2.52	100.0
alpha-BHC	2.94	100.0
gamma-BHC (Lindane)	3.20	100.0
beta-BHC	3.27	100.0
4,4'-DDE	4.83	100.0
Endrin	5.36	100.0
4,4'-DDD	5.44	100.0
4,4'-DDT	5.73	100.0
Methoxychlor	6.24	100.0
Endrin ketone	6.76	100.0

FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1

SDG No.:

Lab Sample ID (2): PEM 480-368232/6 Instrument ID (2): HP6890-25

GC Column (2): RTX-CLPII ID: 0.53(mm) Date Analyzed (2): 07/22/2017 09:49

ANALYTE	RT	RESOLUTION (%)
Endrin aldehyde		100.0
Tetrachloro-m-xylene	2.90	100.0
alpha-BHC	3.45	100.0
gamma-BHC (Lindane)	3.80	100.0
beta-BHC	3.87	100.0
4,4'-DDE	5.73	100.0
Endrin	6.25	100.0
4,4'-DDD	6.34	100.0
4,4'-DDT	6.66	100.0
Methoxychlor	7.35	100.0
Endrin ketone	7.64	100.0

FORM VII
PESTICIDES PERFORMANCE EVALUATION MIXTURE (PEM)

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1

SDG No.:

Lab Sample ID: PEM 480-368232/6 Calibration Date: 07/22/2017 09:49

Instrument ID: HP6890-25 Calib Start Date: 07/20/2017 11:23

GC Column: RTX-CLPI ID: 0.53(mm) Calib End Date: 07/20/2017 12:42

Lab File ID: 25_17-178.D Conc. Units: ng/uL

ANALYTE	RT	RESPONSE	BREAKDOWN (%)	LIMIT	#
Endrin	5.36	1750558	0.91	15	
Endrin aldehyde		0			
Endrin ketone	6.76	16038			

ANALYTE	RT	RESPONSE	BREAKDOWN (%)	LIMIT	#
4,4'-DDT	5.73	3479555	0.35	15	
4,4'-DDD	5.44	4541			
4,4'-DDE	4.83	7852			

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170722-64256.b\25_17-178.D
Lims ID: pem
Client ID:
Sample Type: PEM
Inject. Date: 22-Jul-2017 09:49:09 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#, CN10839003
Operator ID: BufTCHROM Instrument ID: HP6890-25
Sublist: chrom-IS-8081*sub15

Method: \\ChromNA\Buffalo\ChromData\HP6890-25\20170722-64256.b\IS-8081.m
Limit Group: GC - 8081B IS ICAL
Last Update: 24-Jul-2017 07:47:44 Calib Date: 20-Jul-2017 14:40:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\25_17-171.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK016

First Level Reviewer: salversonj Date: 22-Jul-2017 10:28:02

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 44 1-Bromo-2-nitrobenzene							
1	1.993	1.990	0.003	13553026	0.5000	0.5000	
2	2.193	2.193	0.000	8798940	0.5000	0.5000	
						RPD = 0.00	
$ 4 Tetrachloro-m-xylene							
1	2.520	2.517	0.003	375306	0.0200	0.0151	
2	2.903	2.903	0.000	435767	0.0200	0.0197	
						RPD = 26.23	
6 alpha-BHC							
1	2.940	2.937	0.003	503853	0.0100	0.009317	
2	3.450	3.450	0.000	351980	0.0100	0.0105	
						RPD = 11.47	
7 gamma-BHC (Lindane)							
1	3.197	3.190	0.007	455373	0.0100	0.009462	
2	3.797	3.797	0.000	211242	0.0100	0.007584	
						RPD = 22.03	
8 beta-BHC							
1	3.267	3.260	0.007	116726	0.0100	0.006364	
2	3.870	3.870	0.000	109834	0.0100	0.008970	
						RPD = 34.00	
18 4,4'-DDE							
1	4.827	4.817	0.010	7852		0.001073	
2	5.733	5.733	0.000	7796		0.001222	
						RPD = 13.01	
23 Endrin							
1	5.360	5.357	0.003	1750558	0.0500	0.0466	
2	6.247	6.247	0.000	1280392	0.0500	0.0574	
						RPD = 20.64	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
24 4,4'-DDD							
1	5.443	5.433	0.010	4541		0.001089	
2	6.343	6.337	0.006	7961		0.001532	
						RPD = 33.74	
28 4,4'-DDT							
1	5.730	5.723	0.007	3479555	0.1000	0.0959	
2	6.663	6.663	0.000	2034374	0.1000	0.1064	
						RPD = 10.38	
30 Methoxychlor							
1	6.240	6.233	0.007	3907642	0.2500	0.2488	E
2	7.350	7.350	0.000	2513883	0.2500	0.2927	E
						RPD = 16.23	
33 Endrin ketone							
1	6.757	6.750	0.007	16038		0.000490	
2	7.643	7.643	0.000	10724		0.001461	
						RPD = 99.53	
$ 34 DCB Decachlorobiphenyl							
1	7.787	7.780	0.007	644549	0.0200	0.0232	
2	8.843	8.843	0.000	363904	0.0200	0.0258	
						RPD = 10.29	

QC Flag Legend

Processing Flags

E - Exceeded Maximum Amount

Reagents:

PEST_PEM_00142	Amount Added: 1.00	Units: mL	
COPPER_00067	Amount Added: 1.00	Units: Packet	Run Reagent
1-Br2nit 50ng_00008	Amount Added: 10.00	Units: uL	Run Reagent

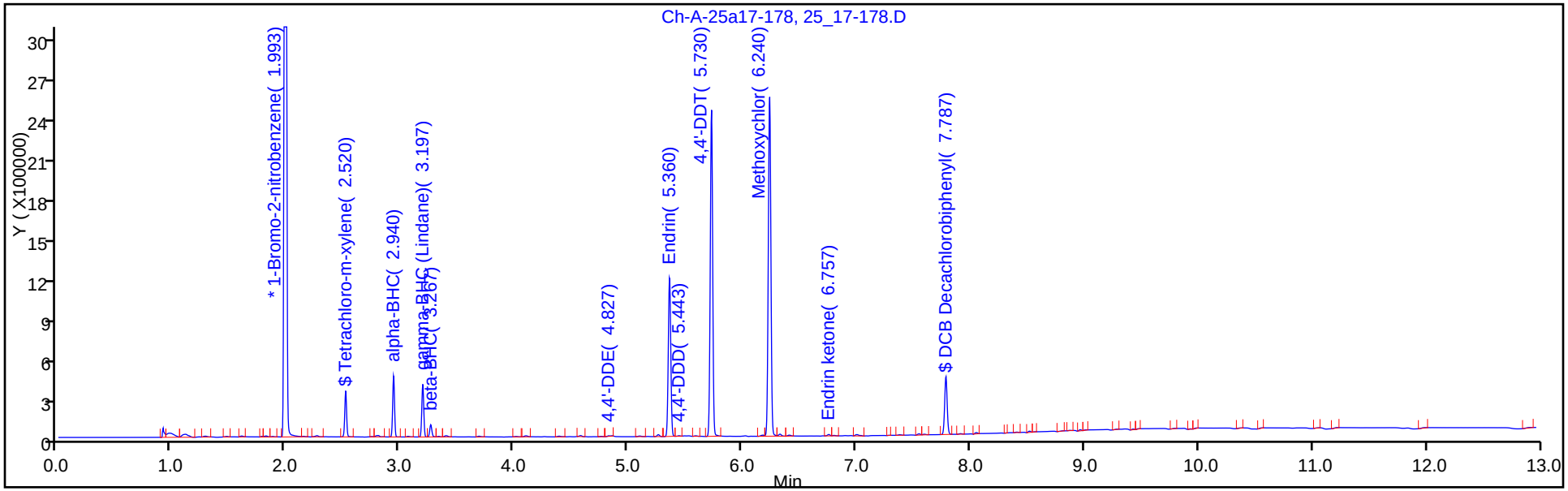
Report Date: 24-Jul-2017 07:47:45 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

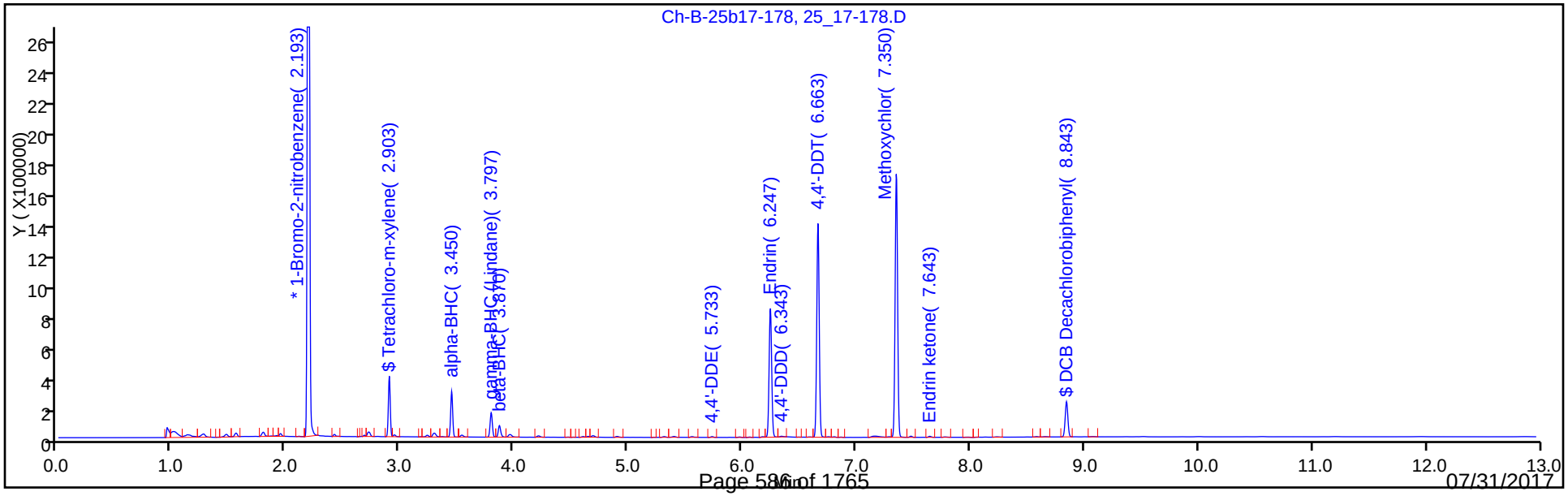
Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170722-64256.b\25_17-178.D

Injection Date:	22-Jul-2017 09:49:09	Instrument ID:	HP6890-25	Operator ID:	BufTCHROM
Lims ID:	pem			Worklist Smp#:	6
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IS-8081	Limit Group:	GC - 8081B IS ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
PESTICIDES PERFORMANCE EVALUATION MIXTURE (PEM)

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1

SDG No.:

Lab Sample ID: PEM 480-368232/6 Calibration Date: 07/22/2017 09:49

Instrument ID: HP6890-25 Calib Start Date: 07/20/2017 11:23

GC Column: RTX-CLPII ID: 0.53(mm) Calib End Date: 07/20/2017 12:42

Lab File ID: 25_17-178.D Conc. Units: ng/uL

ANALYTE	RT	RESPONSE	BREAKDOWN (%)	LIMIT	#
Endrin	6.25	1280392	0.83	15	
Endrin aldehyde		0			
Endrin ketone	7.64	10724			

ANALYTE	RT	RESPONSE	BREAKDOWN (%)	LIMIT	#
4,4'-DDT	6.66	2034374	0.77	15	
4,4'-DDD	6.34	7961			
4,4'-DDE	5.73	7796			

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170722-64256.b\25_17-178.D
Lims ID: pem
Client ID:
Sample Type: PEM
Inject. Date: 22-Jul-2017 09:49:09 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#, CN10839003
Operator ID: BufTCHROM Instrument ID: HP6890-25
Sublist: chrom-IS-8081*sub15

Method: \\ChromNA\Buffalo\ChromData\HP6890-25\20170722-64256.b\IS-8081.m
Limit Group: GC - 8081B IS ICAL
Last Update: 24-Jul-2017 07:47:44 Calib Date: 20-Jul-2017 14:40:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\25_17-171.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK016

First Level Reviewer: salversonj Date: 22-Jul-2017 10:28:02

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 44 1-Bromo-2-nitrobenzene							
1	1.993	1.990	0.003	13553026	0.5000	0.5000	
2	2.193	2.193	0.000	8798940	0.5000	0.5000	
						RPD = 0.00	
$ 4 Tetrachloro-m-xylene							
1	2.520	2.517	0.003	375306	0.0200	0.0151	
2	2.903	2.903	0.000	435767	0.0200	0.0197	
						RPD = 26.23	
6 alpha-BHC							
1	2.940	2.937	0.003	503853	0.0100	0.009317	
2	3.450	3.450	0.000	351980	0.0100	0.0105	
						RPD = 11.47	
7 gamma-BHC (Lindane)							
1	3.197	3.190	0.007	455373	0.0100	0.009462	
2	3.797	3.797	0.000	211242	0.0100	0.007584	
						RPD = 22.03	
8 beta-BHC							
1	3.267	3.260	0.007	116726	0.0100	0.006364	
2	3.870	3.870	0.000	109834	0.0100	0.008970	
						RPD = 34.00	
18 4,4'-DDE							
1	4.827	4.817	0.010	7852		0.001073	
2	5.733	5.733	0.000	7796		0.001222	
						RPD = 13.01	
23 Endrin							
1	5.360	5.357	0.003	1750558	0.0500	0.0466	
2	6.247	6.247	0.000	1280392	0.0500	0.0574	
						RPD = 20.64	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
24 4,4'-DDD							
1	5.443	5.433	0.010	4541		0.001089	
2	6.343	6.337	0.006	7961		0.001532	
						RPD = 33.74	
28 4,4'-DDT							
1	5.730	5.723	0.007	3479555	0.1000	0.0959	
2	6.663	6.663	0.000	2034374	0.1000	0.1064	
						RPD = 10.38	
30 Methoxychlor							
1	6.240	6.233	0.007	3907642	0.2500	0.2488	E
2	7.350	7.350	0.000	2513883	0.2500	0.2927	E
						RPD = 16.23	
33 Endrin ketone							
1	6.757	6.750	0.007	16038		0.000490	
2	7.643	7.643	0.000	10724		0.001461	
						RPD = 99.53	
$ 34 DCB Decachlorobiphenyl							
1	7.787	7.780	0.007	644549	0.0200	0.0232	
2	8.843	8.843	0.000	363904	0.0200	0.0258	
						RPD = 10.29	

QC Flag Legend

Processing Flags

E - Exceeded Maximum Amount

Reagents:

PEST_PEM_00142	Amount Added: 1.00	Units: mL	
COPPER_00067	Amount Added: 1.00	Units: Packet	Run Reagent
1-Br2nit 50ng_00008	Amount Added: 10.00	Units: uL	Run Reagent

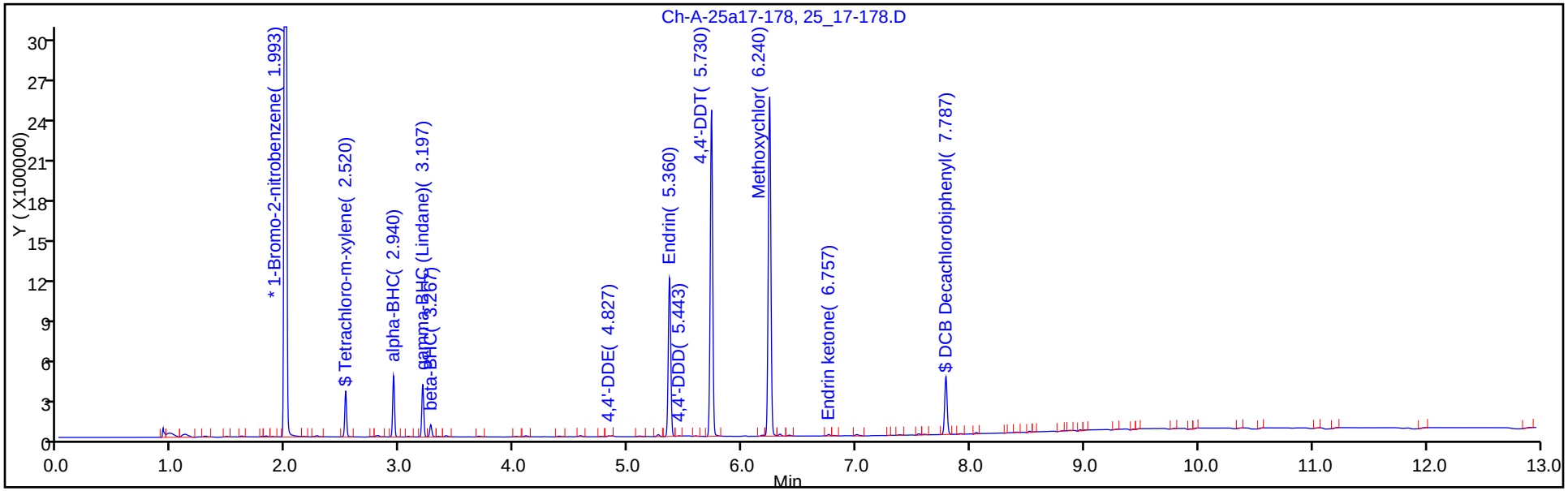
Report Date: 24-Jul-2017 07:47:45 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

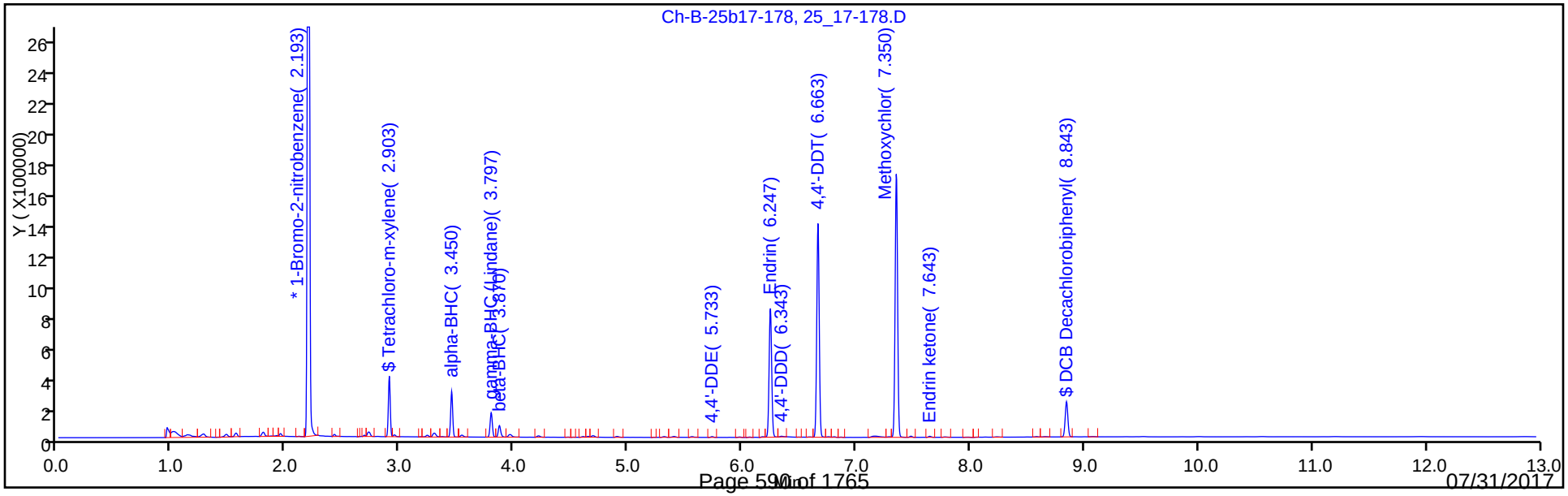
Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170722-64256.b\25_17-178.D

Injection Date:	22-Jul-2017 09:49:09	Instrument ID:	HP6890-25	Operator ID:	BufTCHROM
Lims ID:	pem			Worklist Smp#:	6
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IS-8081	Limit Group:	GC - 8081B IS ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
PESTICIDES CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1

SDG No.:

Lab Sample ID: CCVIS 480-368232/7 Calibration Date: 07/22/2017 10:08

Instrument ID: HP6890-25 Calib Start Date: 07/20/2017 11:23

GC Column: RTX-CLPI ID: 0.53(mm) Calib End Date: 07/20/2017 12:42

Lab File ID: 25_17-179.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
alpha-BHC	Lin1		2.228		0.0528	0.0500	5.6	20.0
gamma-BHC (Lindane)	Lin1		1.955		0.0522	0.0500	4.4	20.0
beta-BHC	Lin1		0.5148		0.0351	0.0500	-29.7*	20.0
delta-BHC	Lin1		1.582		0.0427	0.0500	-14.5	20.0
Heptachlor	Lin1		1.783		0.0545	0.0500	9.0	20.0
Aldrin	Lin1		1.774		0.0529	0.0500	5.8	20.0
Heptachlor epoxide	Lin1		1.594		0.0560	0.0500	12.1	20.0
gamma-Chlordane	Lin1		1.732		0.0524	0.0500	4.8	20.0
alpha-Chlordane	Lin1		1.383		0.0445	0.0500	-10.9	20.0
4,4'-DDE	Lin1		1.504		0.0493	0.0500	-1.4	20.0
Endosulfan I	Lin1		1.271		0.0491	0.0500	-1.8	20.0
Dieldrin	Lin1		1.280		0.0440	0.0500	-12.0	20.0
Endrin	Lin1		1.385		0.0500	0.0500	0.0	20.0
4,4'-DDD	Lin1		1.347		0.0544	0.0500	8.7	20.0
Endosulfan II	Lin1		1.111		0.0452	0.0500	-9.6	20.0
4,4'-DDT	Lin1		1.337		0.0505	0.0500	1.1	20.0
Endrin aldehyde	Lin1		1.085		0.0547	0.0500	9.5	20.0
Methoxychlor	Lin1		0.6360		0.0552	0.0500	10.5	20.0
Endosulfan sulfate	Lin1		1.269		0.0574	0.0500	14.7	20.0
Endrin ketone	Lin1		1.483		0.0576	0.0500	15.3	20.0
Tetrachloro-m-xylene	Lin1		0.7918		0.0413	0.0500	-17.4	20.0
DCB Decachlorobiphenyl	Lin1		1.147		0.0563	0.0500	12.6	20.0

FORM VII
PESTICIDES CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1

SDG No.:

Lab Sample ID: CCVIS 480-368232/7 Calibration Date: 07/22/2017 10:08

Instrument ID: HP6890-25 Calib Start Date: 07/20/2017 11:23

GC Column: RTX-CLPI ID: 0.53(mm) Calib End Date: 07/20/2017 12:42

Lab File ID: 25_17-179.D

Analyte	RT	RT WINDOW	
		FROM	TO
alpha-BHC	2.94	2.91	2.96
gamma-BHC (Lindane)	3.19	3.17	3.22
beta-BHC	3.26	3.24	3.29
delta-BHC	3.42	3.39	3.44
Heptachlor	3.60	3.58	3.63
Aldrin	3.88	3.86	3.91
Heptachlor epoxide	4.47	4.45	4.50
gamma-Chlordane	4.60	4.58	4.63
alpha-Chlordane	4.73	4.71	4.76
4,4'-DDE	4.82	4.79	4.84
Endosulfan I	4.87	4.85	4.90
Dieldrin	5.12	5.10	5.15
Endrin	5.36	5.33	5.38
4,4'-DDD	5.43	5.41	5.46
Endosulfan II	5.59	5.56	5.61
4,4'-DDT	5.72	5.70	5.75
Endrin aldehyde	6.02	6.00	6.05
Methoxychlor	6.23	6.21	6.26
Endosulfan sulfate	6.47	6.44	6.49
Endrin ketone	6.75	6.73	6.78
Tetrachloro-m-xylene	2.52	2.49	2.54
DCB Decachlorobiphenyl	7.78	7.76	7.81

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170722-64256.b\25_17-179.D
Lims ID: ccvis
Client ID:
Sample Type: CCVIS
Inject. Date: 22-Jul-2017 10:08:57 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#, CN10839003
Operator ID: BufTCHROM Instrument ID: HP6890-25
Sublist: chrom-IS-8081*sub13

Method: \\ChromNA\Buffalo\ChromData\HP6890-25\20170722-64256.b\IS-8081.m
Limit Group: GC - 8081B IS ICAL
Last Update: 24-Jul-2017 07:47:46 Calib Date: 20-Jul-2017 14:40:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\25_17-171.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK016

First Level Reviewer: salversonj Date: 22-Jul-2017 10:31:02

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 44 1-Bromo-2-nitrobenzene							
1	1.987	1.987	0.000	13758637	0.5000	0.5000	
2	2.193	2.193	0.000	9103394	0.5000	0.5000	
						RPD = 0.00	
$ 4 Tetrachloro-m-xylene							
1	2.517	2.517	0.000	1089459	0.0500	0.0413	
2	2.903	2.903	0.000	1290900	0.0500	0.0557	
						RPD = 29.80	
6 alpha-BHC							
1	2.937	2.937	0.000	3065119	0.0500	0.0528	
2	3.450	3.450	0.000	2069946	0.0500	0.0558	
						RPD = 5.56	
7 gamma-BHC (Lindane)							
1	3.190	3.190	0.000	2690182	0.0500	0.0522	
2	3.797	3.797	0.000	1304945	0.0500	0.0413	
						RPD = 23.21	
8 beta-BHC							
1	3.260	3.260	0.000	708287	0.0500	0.0351	
2	3.870	3.870	0.000	634451	0.0500	0.0473	
						RPD = 29.52	
9 delta-BHC							
1	3.417	3.417	0.000	2177157	0.0500	0.0427	
2	4.180	4.180	0.000	1545769	0.0500	0.0476	
						RPD = 10.79	
11 Heptachlor							
1	3.603	3.603	0.000	2452976	0.0500	0.0545	
2	4.267	4.267	0.000	1740130	0.0500	0.0593	
						RPD = 8.34	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
12 Aldrin							
1	3.880	3.880	0.000	2441155	0.0500	0.0529	
2	4.617	4.617	0.000	1454633	0.0500	0.0500	
						RPD = 5.74	
14 Heptachlor epoxide							
1	4.473	4.473	0.000	2192927	0.0500	0.0560	
2	5.217	5.217	0.000	1145358	0.0500	0.0475	
						RPD = 16.42	
16 gamma-Chlordane							
1	4.600	4.600	0.000	2382425	0.0500	0.0524	
2	5.417	5.417	0.000	1372334	0.0500	0.0518	
						RPD = 1.28	
17 alpha-Chlordane							
1	4.733	4.733	0.000	1902385	0.0500	0.0445	
2	5.573	5.573	0.000	994851	0.0500	0.0419	
						RPD = 6.16	
18 4,4'-DDE							
1	4.817	4.817	0.000	2069658	0.0500	0.0493	
2	5.733	5.733	0.000	1441833	0.0500	0.0579	
						RPD = 16.01	
19 Endosulfan I							
1	4.873	4.873	0.000	1748232	0.0500	0.0491	
2	5.637	5.637	0.000	1279763	0.0500	0.0594	
						RPD = 18.93	
21 Dieldrin							
1	5.120	5.120	0.000	1760582	0.0500	0.0440	
2	5.927	5.927	0.000	1468503	0.0500	0.0585	
						RPD = 28.37	
23 Endrin							
1	5.357	5.357	0.000	1906053	0.0500	0.0500	
2	6.247	6.247	0.000	1374688	0.0500	0.0595	
						RPD = 17.30	
24 4,4'-DDD							
1	5.433	5.433	0.000	1853945	0.0500	0.0544	
2	6.337	6.337	0.000	1117366	0.0500	0.0577	
						RPD = 5.91	
27 Endosulfan II							
1	5.587	5.587	0.000	1527942	0.0500	0.0452	
2	6.463	6.463	0.000	1155041	0.0500	0.0575	
						RPD = 23.88	
28 4,4'-DDT							
1	5.723	5.723	0.000	1839762	0.0500	0.0505	
2	6.663	6.663	0.000	1045991	0.0500	0.0538	
						RPD = 6.30	
29 Endrin aldehyde							
1	6.020	6.020	0.000	1492161	0.0500	0.0547	
2	6.807	6.807	0.000	914797	0.0500	0.0591	
						RPD = 7.68	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
30 Methoxychlor							
1	6.233	6.233	0.000	875000	0.0500	0.0552	
2	7.350	7.350	0.000	487963	0.0500	0.0563	
						RPD = 1.86	
32 Endosulfan sulfate							
1	6.467	6.467	0.000	1745415	0.0500	0.0574	
2	7.093	7.093	0.000	1013979	0.0500	0.0579	
						RPD = 0.96	
33 Endrin ketone							
1	6.750	6.750	0.000	2039867	0.0500	0.0576	
2	7.643	7.643	0.000	1115914	0.0500	0.0564	
						RPD = 2.15	
$ 34 DCB Decachlorobiphenyl							
1	7.780	7.780	0.000	1578546	0.0500	0.0563	
2	8.843	8.843	0.000	865879	0.0500	0.0594	
						RPD = 5.33	

Reagents:

PEST_CCV_.05_00239	Amount Added: 1.00	Units: mL	
COPPER_00067	Amount Added: 1.00	Units: Packet	Run Reagent
1-Br2nit 50ng_00008	Amount Added: 10.00	Units: uL	Run Reagent

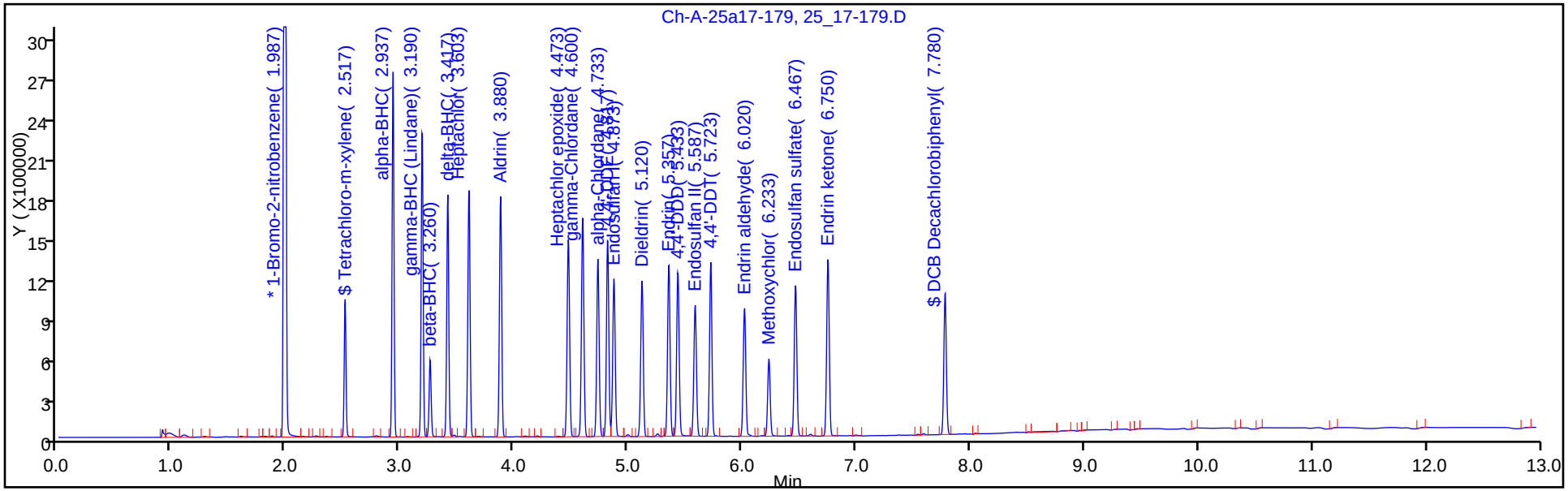
Report Date: 24-Jul-2017 07:47:46 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

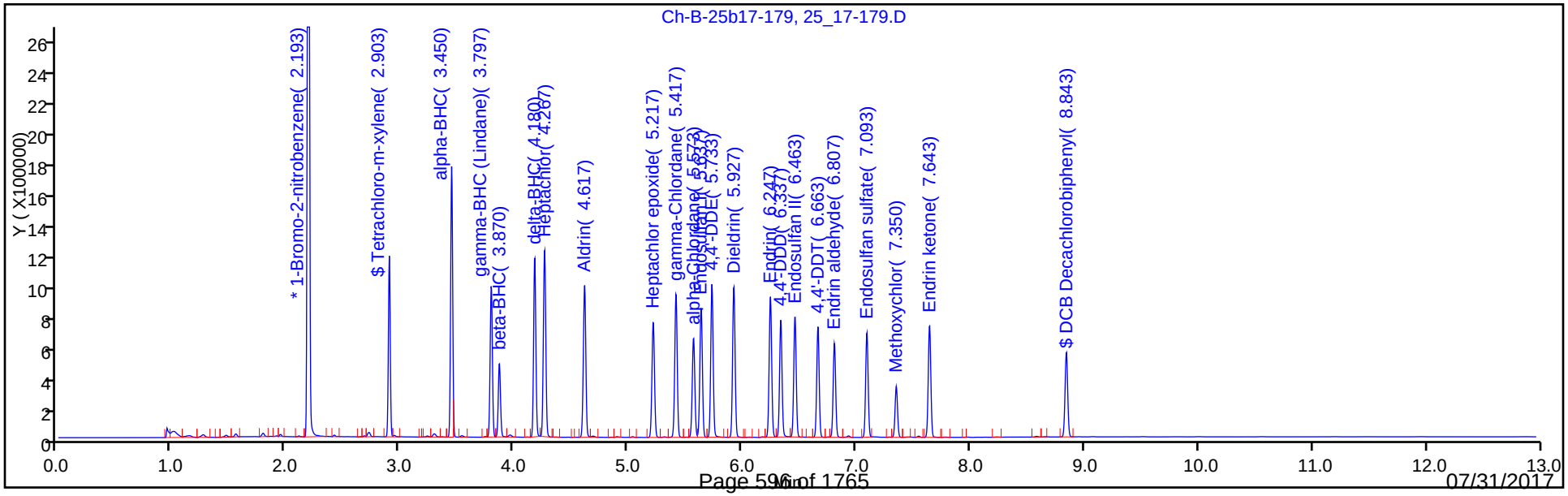
Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170722-64256.b\25_17-179.D

Injection Date:	22-Jul-2017 10:08:57	Instrument ID:	HP6890-25	Operator ID:	BufTCHROM
Lims ID:	ccvis			Worklist Smp#:	7
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IS-8081	Limit Group:	GC - 8081B IS ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
PESTICIDES CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1

SDG No.:

Lab Sample ID: CCVIS 480-368232/7 Calibration Date: 07/22/2017 10:08

Instrument ID: HP6890-25 Calib Start Date: 07/20/2017 11:23

GC Column: RTX-CLPII ID: 0.53(mm) Calib End Date: 07/20/2017 12:42

Lab File ID: 25_17-179.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
alpha-BHC	Lin1		2.274		0.0558	0.0500	11.7	20.0
gamma-BHC (Lindane)	Lin1		1.433		0.0413	0.0500	-17.3	20.0
beta-BHC	Lin1		0.6969		0.0473	0.0500	-5.4	20.0
delta-BHC	Lin1		1.698		0.0476	0.0500	-4.8	20.0
Heptachlor	Lin1		1.912		0.0593	0.0500	18.5	20.0
Aldrin	Lin1		1.598		0.0500	0.0500	-0.1	20.0
Heptachlor epoxide	Lin1		1.258		0.0475	0.0500	-4.9	20.0
gamma-Chlordane	Lin1		1.508		0.0518	0.0500	3.5	20.0
alpha-Chlordane	Lin1		1.093		0.0419	0.0500	-16.3	20.0
Endosulfan I	Lin1		1.406		0.0594	0.0500	18.7	20.0
4,4'-DDE	Lin1		1.584		0.0579	0.0500	15.8	20.0
Dieldrin	Lin1		1.613		0.0585	0.0500	17.0	20.0
Endrin	Lin1		1.510		0.0595	0.0500	19.0	20.0
4,4'-DDD	Lin1		1.227		0.0577	0.0500	15.4	20.0
Endosulfan II	Lin1		1.269		0.0575	0.0500	15.0	20.0
4,4'-DDT	Lin1		1.149		0.0538	0.0500	7.6	20.0
Endrin aldehyde	Lin1		1.005		0.0591	0.0500	18.2	20.0
Endosulfan sulfate	Lin1		1.114		0.0579	0.0500	15.8	20.0
Methoxychlor	Lin1		0.5360		0.0563	0.0500	12.5	20.0
Endrin ketone	Lin1		1.226		0.0564	0.0500	12.8	20.0
Tetrachloro-m-xylene	Lin1		1.418		0.0557	0.0500	11.5	20.0
DCB Decachlorobiphenyl	Lin1		0.9512		0.0594	0.0500	18.8	20.0

FORM VII
PESTICIDES CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1

SDG No.:

Lab Sample ID: CCVIS 480-368232/7 Calibration Date: 07/22/2017 10:08

Instrument ID: HP6890-25 Calib Start Date: 07/20/2017 11:23

GC Column: RTX-CLPII ID: 0.53(mm) Calib End Date: 07/20/2017 12:42

Lab File ID: 25_17-179.D

Analyte	RT	RT WINDOW	
		FROM	TO
alpha-BHC	3.45	3.43	3.48
gamma-BHC (Lindane)	3.80	3.77	3.82
beta-BHC	3.87	3.85	3.90
delta-BHC	4.18	4.16	4.21
Heptachlor	4.27	4.24	4.29
Aldrin	4.62	4.59	4.64
Heptachlor epoxide	5.22	5.19	5.24
gamma-Chlordane	5.42	5.39	5.44
alpha-Chlordane	5.57	5.55	5.60
Endosulfan I	5.64	5.61	5.66
4,4'-DDE	5.73	5.71	5.76
Dieldrin	5.93	5.90	5.95
Endrin	6.25	6.22	6.27
4,4'-DDD	6.34	6.31	6.36
Endosulfan II	6.46	6.44	6.49
4,4'-DDT	6.66	6.64	6.69
Endrin aldehyde	6.81	6.78	6.83
Endosulfan sulfate	7.09	7.07	7.12
Methoxychlor	7.35	7.33	7.38
Endrin ketone	7.64	7.62	7.67
Tetrachloro-m-xylene	2.90	2.88	2.93
DCB Decachlorobiphenyl	8.84	8.82	8.87

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170722-64256.b\25_17-179.D
Lims ID: ccvis
Client ID:
Sample Type: CCVIS
Inject. Date: 22-Jul-2017 10:08:57 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#, CN10839003
Operator ID: BufTCHROM Instrument ID: HP6890-25
Sublist: chrom-IS-8081*sub13

Method: \\ChromNA\Buffalo\ChromData\HP6890-25\20170722-64256.b\IS-8081.m
Limit Group: GC - 8081B IS ICAL
Last Update: 24-Jul-2017 07:47:46 Calib Date: 20-Jul-2017 14:40:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\25_17-171.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK016

First Level Reviewer: salversonj Date: 22-Jul-2017 10:31:02

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 44 1-Bromo-2-nitrobenzene							
1	1.987	1.987	0.000	13758637	0.5000	0.5000	
2	2.193	2.193	0.000	9103394	0.5000	0.5000	
						RPD = 0.00	
$ 4 Tetrachloro-m-xylene							
1	2.517	2.517	0.000	1089459	0.0500	0.0413	
2	2.903	2.903	0.000	1290900	0.0500	0.0557	
						RPD = 29.80	
6 alpha-BHC							
1	2.937	2.937	0.000	3065119	0.0500	0.0528	
2	3.450	3.450	0.000	2069946	0.0500	0.0558	
						RPD = 5.56	
7 gamma-BHC (Lindane)							
1	3.190	3.190	0.000	2690182	0.0500	0.0522	
2	3.797	3.797	0.000	1304945	0.0500	0.0413	
						RPD = 23.21	
8 beta-BHC							
1	3.260	3.260	0.000	708287	0.0500	0.0351	
2	3.870	3.870	0.000	634451	0.0500	0.0473	
						RPD = 29.52	
9 delta-BHC							
1	3.417	3.417	0.000	2177157	0.0500	0.0427	
2	4.180	4.180	0.000	1545769	0.0500	0.0476	
						RPD = 10.79	
11 Heptachlor							
1	3.603	3.603	0.000	2452976	0.0500	0.0545	
2	4.267	4.267	0.000	1740130	0.0500	0.0593	
						RPD = 8.34	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
12 Aldrin							
1	3.880	3.880	0.000	2441155	0.0500	0.0529	
2	4.617	4.617	0.000	1454633	0.0500	0.0500	
						RPD = 5.74	
14 Heptachlor epoxide							
1	4.473	4.473	0.000	2192927	0.0500	0.0560	
2	5.217	5.217	0.000	1145358	0.0500	0.0475	
						RPD = 16.42	
16 gamma-Chlordane							
1	4.600	4.600	0.000	2382425	0.0500	0.0524	
2	5.417	5.417	0.000	1372334	0.0500	0.0518	
						RPD = 1.28	
17 alpha-Chlordane							
1	4.733	4.733	0.000	1902385	0.0500	0.0445	
2	5.573	5.573	0.000	994851	0.0500	0.0419	
						RPD = 6.16	
18 4,4'-DDE							
1	4.817	4.817	0.000	2069658	0.0500	0.0493	
2	5.733	5.733	0.000	1441833	0.0500	0.0579	
						RPD = 16.01	
19 Endosulfan I							
1	4.873	4.873	0.000	1748232	0.0500	0.0491	
2	5.637	5.637	0.000	1279763	0.0500	0.0594	
						RPD = 18.93	
21 Dieldrin							
1	5.120	5.120	0.000	1760582	0.0500	0.0440	
2	5.927	5.927	0.000	1468503	0.0500	0.0585	
						RPD = 28.37	
23 Endrin							
1	5.357	5.357	0.000	1906053	0.0500	0.0500	
2	6.247	6.247	0.000	1374688	0.0500	0.0595	
						RPD = 17.30	
24 4,4'-DDD							
1	5.433	5.433	0.000	1853945	0.0500	0.0544	
2	6.337	6.337	0.000	1117366	0.0500	0.0577	
						RPD = 5.91	
27 Endosulfan II							
1	5.587	5.587	0.000	1527942	0.0500	0.0452	
2	6.463	6.463	0.000	1155041	0.0500	0.0575	
						RPD = 23.88	
28 4,4'-DDT							
1	5.723	5.723	0.000	1839762	0.0500	0.0505	
2	6.663	6.663	0.000	1045991	0.0500	0.0538	
						RPD = 6.30	
29 Endrin aldehyde							
1	6.020	6.020	0.000	1492161	0.0500	0.0547	
2	6.807	6.807	0.000	914797	0.0500	0.0591	
						RPD = 7.68	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
30 Methoxychlor							
1	6.233	6.233	0.000	875000	0.0500	0.0552	
2	7.350	7.350	0.000	487963	0.0500	0.0563	
						RPD = 1.86	
32 Endosulfan sulfate							
1	6.467	6.467	0.000	1745415	0.0500	0.0574	
2	7.093	7.093	0.000	1013979	0.0500	0.0579	
						RPD = 0.96	
33 Endrin ketone							
1	6.750	6.750	0.000	2039867	0.0500	0.0576	
2	7.643	7.643	0.000	1115914	0.0500	0.0564	
						RPD = 2.15	
$ 34 DCB Decachlorobiphenyl							
1	7.780	7.780	0.000	1578546	0.0500	0.0563	
2	8.843	8.843	0.000	865879	0.0500	0.0594	
						RPD = 5.33	

Reagents:

PEST_CCV_.05_00239	Amount Added: 1.00	Units: mL	
COPPER_00067	Amount Added: 1.00	Units: Packet	Run Reagent
1-Br2nit 50ng_00008	Amount Added: 10.00	Units: uL	Run Reagent

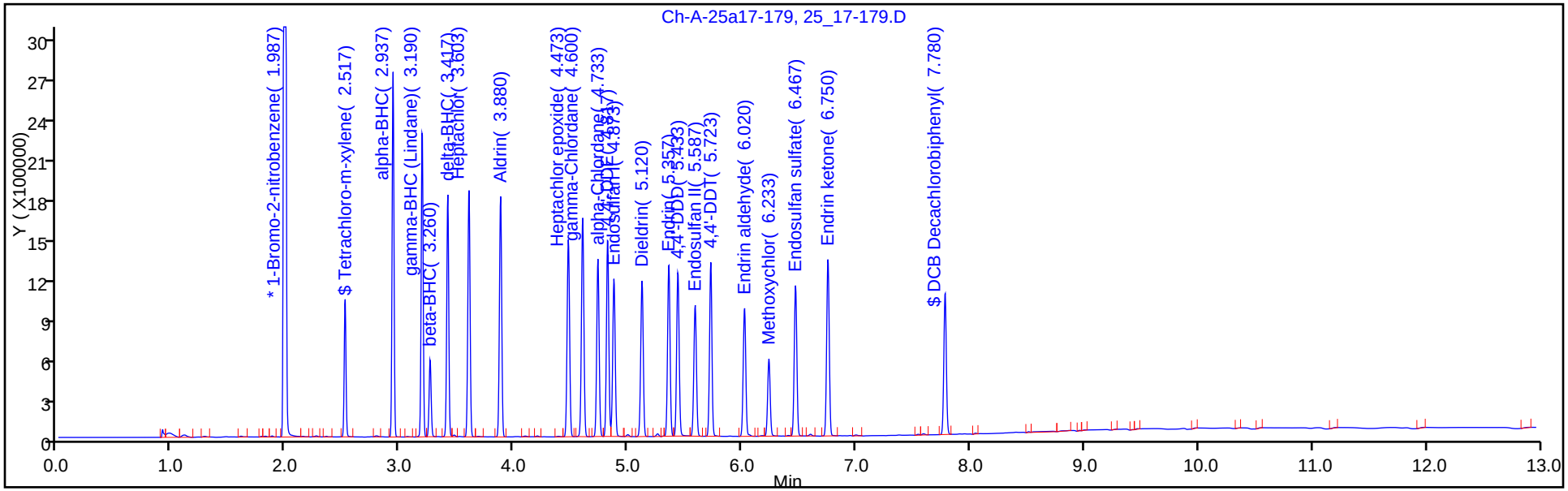
Report Date: 24-Jul-2017 07:47:47 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

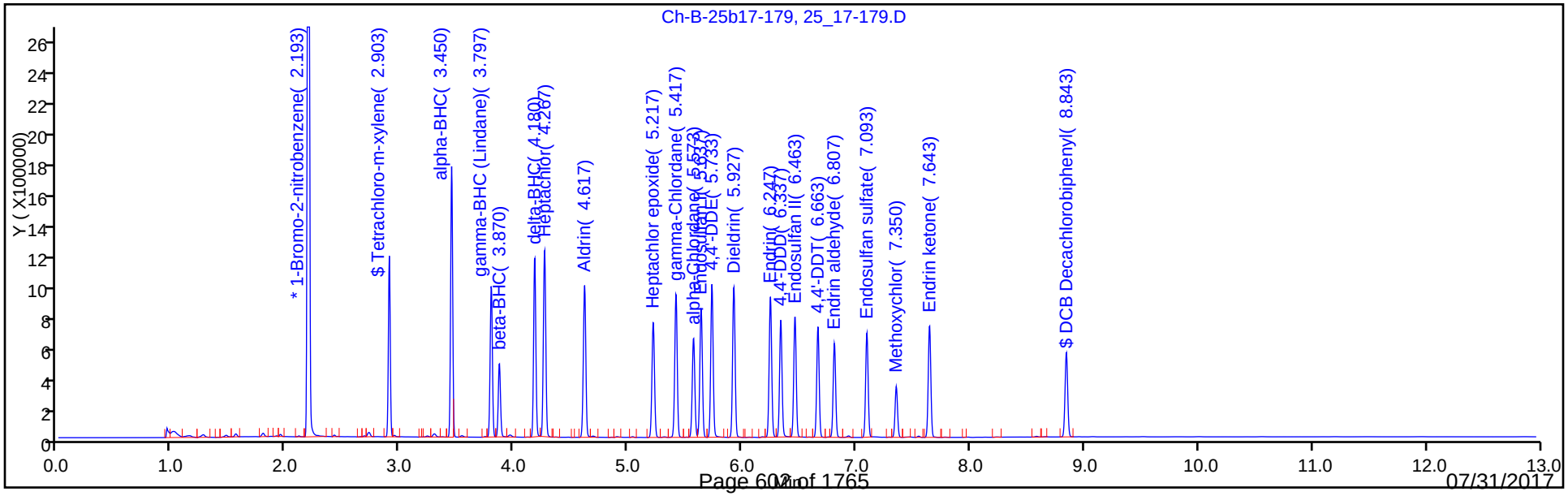
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Injection Date:	22-Jul-2017 10:08:57	Instrument ID:	HP6890-25	Operator ID:	BufTCHROM
Lims ID:	ccvis			Worklist Smp#:	7
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IS-8081	Limit Group:	GC - 8081B IS ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
PESTICIDES CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1

SDG No.:

Lab Sample ID: CCV 480-368232/9 Calibration Date: 07/22/2017 10:48

Instrument ID: HP6890-25 Calib Start Date: 04/13/2017 14:18

GC Column: RTX-CLPI ID: 0.53(mm) Calib End Date: 04/13/2017 15:37

Lab File ID: 25_17-181.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Toxaphene Peak 1	Lin1		0.0553		0.544	0.500	8.9	20.0
Toxaphene Peak 2	Lin1		0.0810		0.567	0.500	13.4	20.0
Toxaphene Peak 3	Lin1		0.0444		0.586	0.500	17.3	20.0
Toxaphene Peak 4	Lin1		0.0459		0.571	0.500	14.2	20.0
Toxaphene Peak 5	Lin1		0.0414		0.539	0.500	7.8	20.0

FORM VII
PESTICIDES CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1

SDG No.:

Lab Sample ID: CCV 480-368232/9 Calibration Date: 07/22/2017 10:48

Instrument ID: HP6890-25 Calib Start Date: 04/13/2017 14:18

GC Column: RTX-CLPI ID: 0.53(mm) Calib End Date: 04/13/2017 15:37

Lab File ID: 25_17-181.D

Analyte	RT	RT WINDOW	
		FROM	TO
Toxaphene Peak 1	5.58	5.55	5.60
Toxaphene Peak 2	5.70	5.68	5.73
Toxaphene Peak 3	5.93	5.91	5.96
Toxaphene Peak 4	6.26	6.24	6.29
Toxaphene Peak 5	6.36	6.34	6.39

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170722-64256.b\25_17-181.D
Lims ID: ccv
Client ID:
Sample Type: CCV
Inject. Date: 22-Jul-2017 10:48:16 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#, CN10839003
Operator ID: BufTCHROM Instrument ID: HP6890-25
Sublist: chrom-IS-8081*sub16

Method: \\ChromNA\Buffalo\ChromData\HP6890-25\20170722-64256.b\IS-8081.m
Limit Group: GC - 8081B IS ICAL
Last Update: 24-Jul-2017 07:46:29 Calib Date: 20-Jul-2017 14:40:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\25_17-171.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK016

First Level Reviewer: salversonj Date: 22-Jul-2017 11:33:04

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 44 1-Bromo-2-nitrobenzene							
1	1.990	1.990	0.000	13115906	0.5000	0.5000	
2	2.193	2.193	0.000	9066981	0.5000	0.5000	
						RPD = 0.00	
26 Toxaphene							M
1	5.577	5.577	0.000	725825	0.5000	0.5445	
1	5.700	5.700	0.000	1062438	0.5000	0.5669	
1	5.930	5.930	0.000	582355	0.5000	0.5865	
1	6.263	6.263	0.000	601753	0.5000	0.5709	
1	6.363	6.363	0.000	542399	0.5000	0.5390	
		Average of Peak Amounts =				0.5616	
2	5.900	5.900	0.000	216964	0.5000	0.5727	M
2	6.450	6.450	0.000	317700	0.5000	0.5947	M
2	6.550	6.550	0.000	593225	0.5000	0.5714	M
2	6.813	6.813	0.000	365978	0.5000	0.5755	M
2	7.343	7.343	0.000	296947	0.5000	0.5652	M
		Average of Peak Amounts =				0.5759	
						RPD = 2.53	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

TOX_CCV_0.5_00101	Amount Added:	1.00	Units: mL	
COPPER_00067	Amount Added:	1.00	Units: Packet	Run Reagent
1-Br2nit 50ng_00008	Amount Added:	10.00	Units: uL	Run Reagent

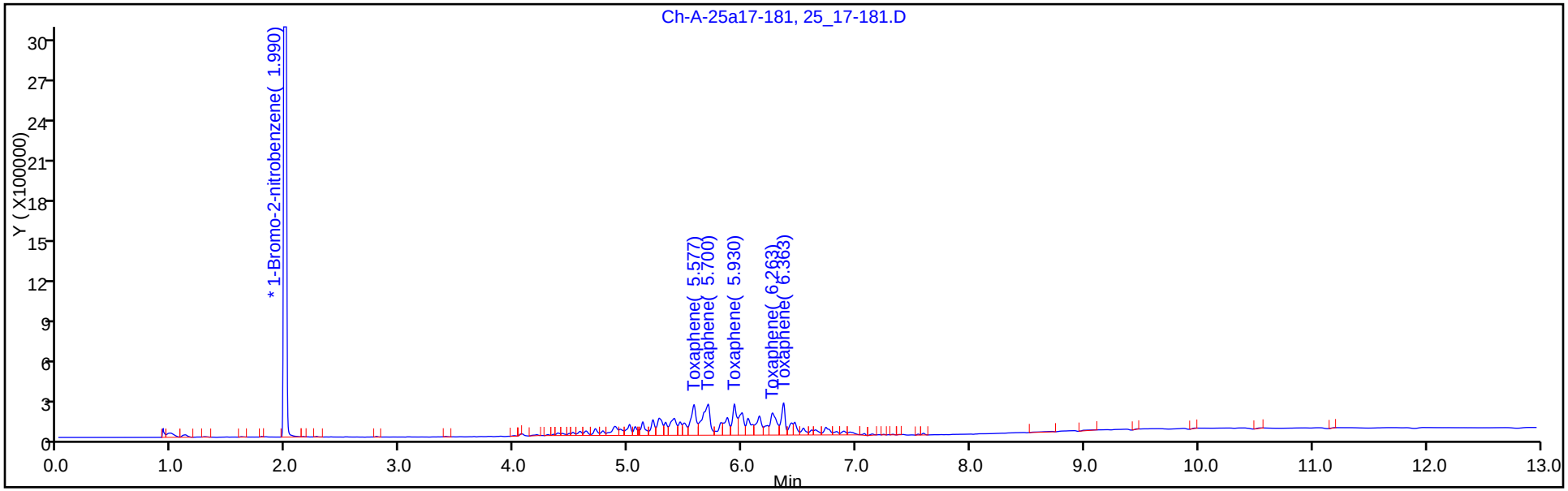
Report Date: 24-Jul-2017 07:46:30 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

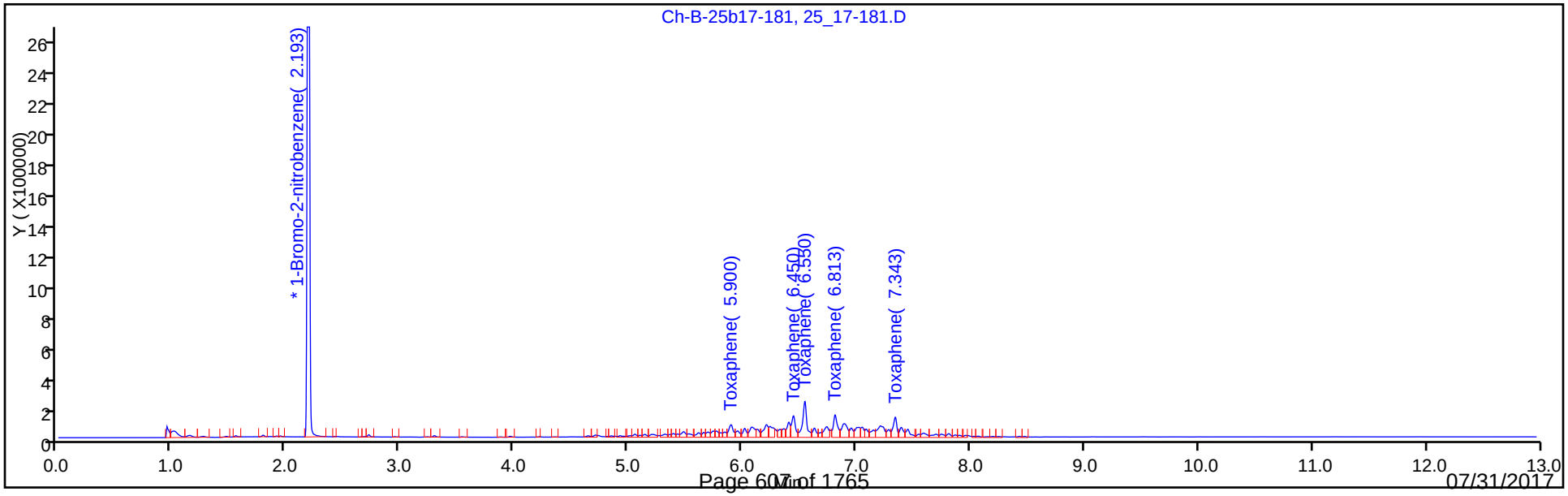
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Injection Date:	22-Jul-2017 10:48:16	Instrument ID:	HP6890-25	Operator ID:	BufTCHROM
Lims ID:	ccv			Worklist Smp#:	9
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IS-8081	Limit Group:	GC - 8081B IS ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
PESTICIDES CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1

SDG No.:

Lab Sample ID: CCV 480-368232/9 Calibration Date: 07/22/2017 10:48

Instrument ID: HP6890-25 Calib Start Date: 04/13/2017 14:18

GC Column: RTX-CLPII ID: 0.53(mm) Calib End Date: 04/13/2017 15:37

Lab File ID: 25_17-181.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Toxaphene Peak 1	Lin1		0.0239		0.573	0.500	14.5	20.0
Toxaphene Peak 2	Lin1		0.0350		0.595	0.500	18.9	20.0
Toxaphene Peak 3	Lin1		0.0654		0.571	0.500	14.3	20.0
Toxaphene Peak 4	Lin1		0.0404		0.576	0.500	15.1	20.0
Toxaphene Peak 5	Lin1		0.0328		0.565	0.500	13.0	20.0

FORM VII
PESTICIDES CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1

SDG No.:

Lab Sample ID: CCV 480-368232/9 Calibration Date: 07/22/2017 10:48

Instrument ID: HP6890-25 Calib Start Date: 04/13/2017 14:18

GC Column: RTX-CLPII ID: 0.53(mm) Calib End Date: 04/13/2017 15:37

Lab File ID: 25_17-181.D

Analyte	RT	RT WINDOW	
		FROM	TO
Toxaphene Peak 1	5.90	5.88	5.93
Toxaphene Peak 2	6.45	6.43	6.48
Toxaphene Peak 3	6.55	6.53	6.58
Toxaphene Peak 4	6.81	6.79	6.84
Toxaphene Peak 5	7.34	7.32	7.37

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170722-64256.b\25_17-181.D
Lims ID: ccv
Client ID:
Sample Type: CCV
Inject. Date: 22-Jul-2017 10:48:16 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#, CN10839003
Operator ID: BufTCHROM Instrument ID: HP6890-25
Sublist: chrom-IS-8081*sub16

Method: \\ChromNA\Buffalo\ChromData\HP6890-25\20170722-64256.b\IS-8081.m
Limit Group: GC - 8081B IS ICAL
Last Update: 24-Jul-2017 07:46:29 Calib Date: 20-Jul-2017 14:40:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\25_17-171.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK016

First Level Reviewer: salversonj Date: 22-Jul-2017 11:33:04

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 44 1-Bromo-2-nitrobenzene							
1	1.990	1.990	0.000	13115906	0.5000	0.5000	
2	2.193	2.193	0.000	9066981	0.5000	0.5000	
						RPD = 0.00	
26 Toxaphene							M
1	5.577	5.577	0.000	725825	0.5000	0.5445	
1	5.700	5.700	0.000	1062438	0.5000	0.5669	
1	5.930	5.930	0.000	582355	0.5000	0.5865	
1	6.263	6.263	0.000	601753	0.5000	0.5709	
1	6.363	6.363	0.000	542399	0.5000	0.5390	
		Average of Peak Amounts =				0.5616	
2	5.900	5.900	0.000	216964	0.5000	0.5727	M
2	6.450	6.450	0.000	317700	0.5000	0.5947	M
2	6.550	6.550	0.000	593225	0.5000	0.5714	M
2	6.813	6.813	0.000	365978	0.5000	0.5755	M
2	7.343	7.343	0.000	296947	0.5000	0.5652	M
		Average of Peak Amounts =				0.5759	
						RPD = 2.53	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

TOX_CCV_0.5_00101	Amount Added:	1.00	Units: mL	
COPPER_00067	Amount Added:	1.00	Units: Packet	Run Reagent
1-Br2nit 50ng_00008	Amount Added:	10.00	Units: uL	Run Reagent

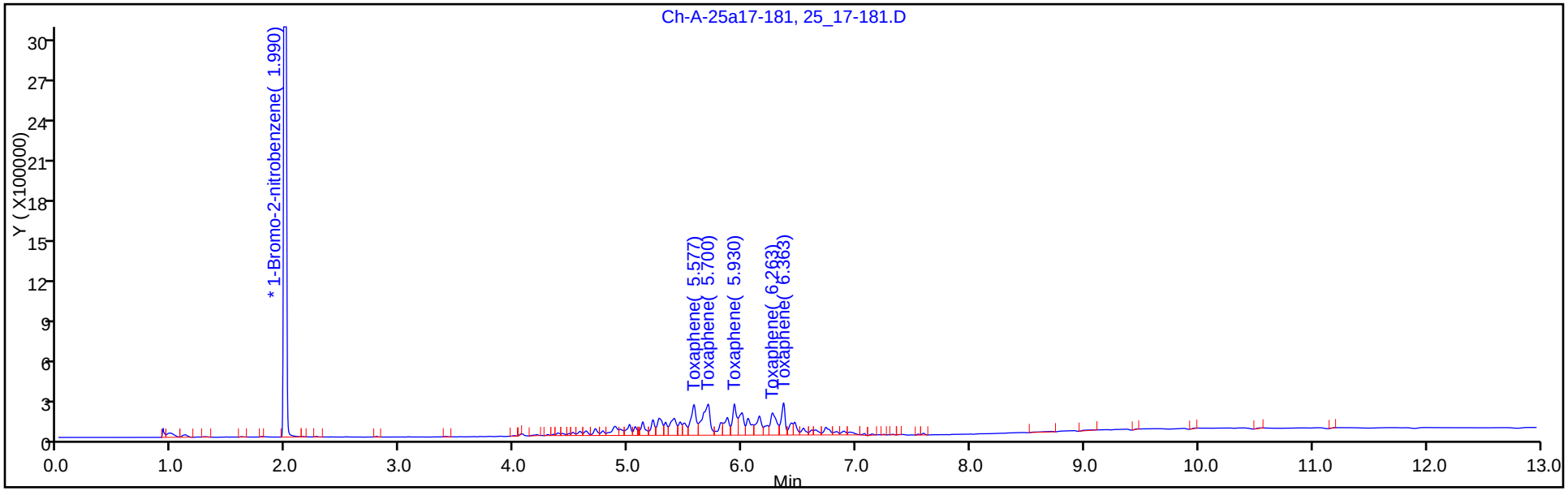
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TestAmerica Buffalo

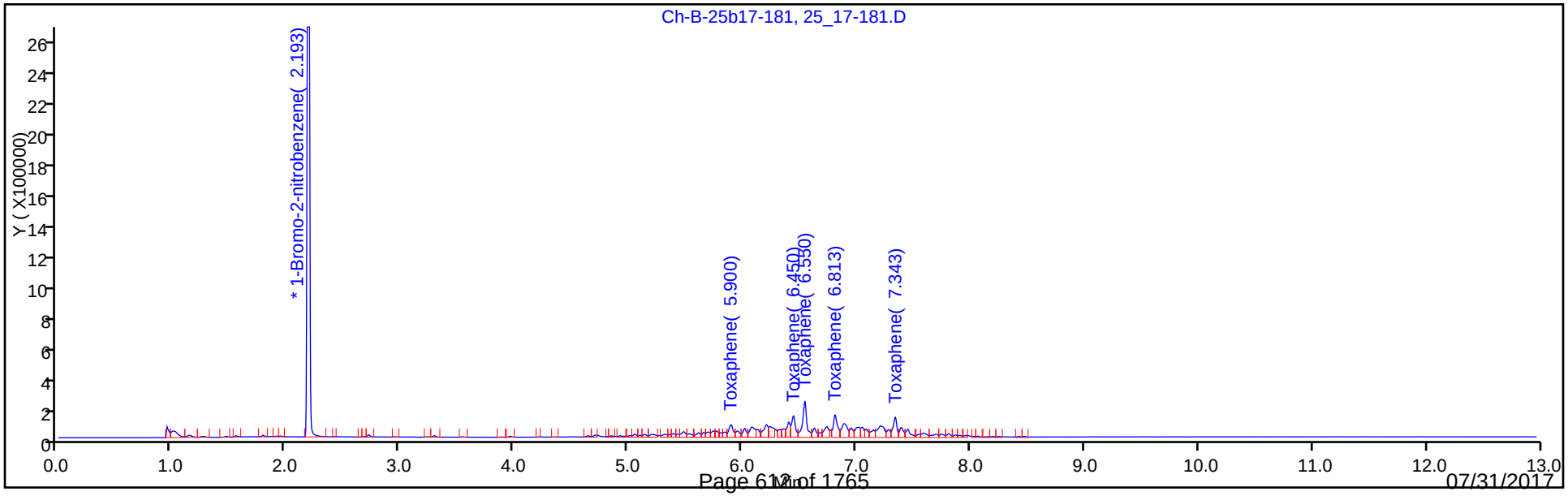
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Injection Date:	22-Jul-2017 10:48:16	Instrument ID:	HP6890-25	Operator ID:	BufTCHROM
Lims ID:	ccv			Worklist Smp#:	9
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IS-8081	Limit Group:	GC - 8081B IS ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



Report Date: 24-Jul-2017 07:46:31 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170722-64256.b\25_17-181.D

Injection Date: 22-Jul-2017 10:48:16 Instrument ID: HP6890-25

Lims ID: ccv

Client ID:

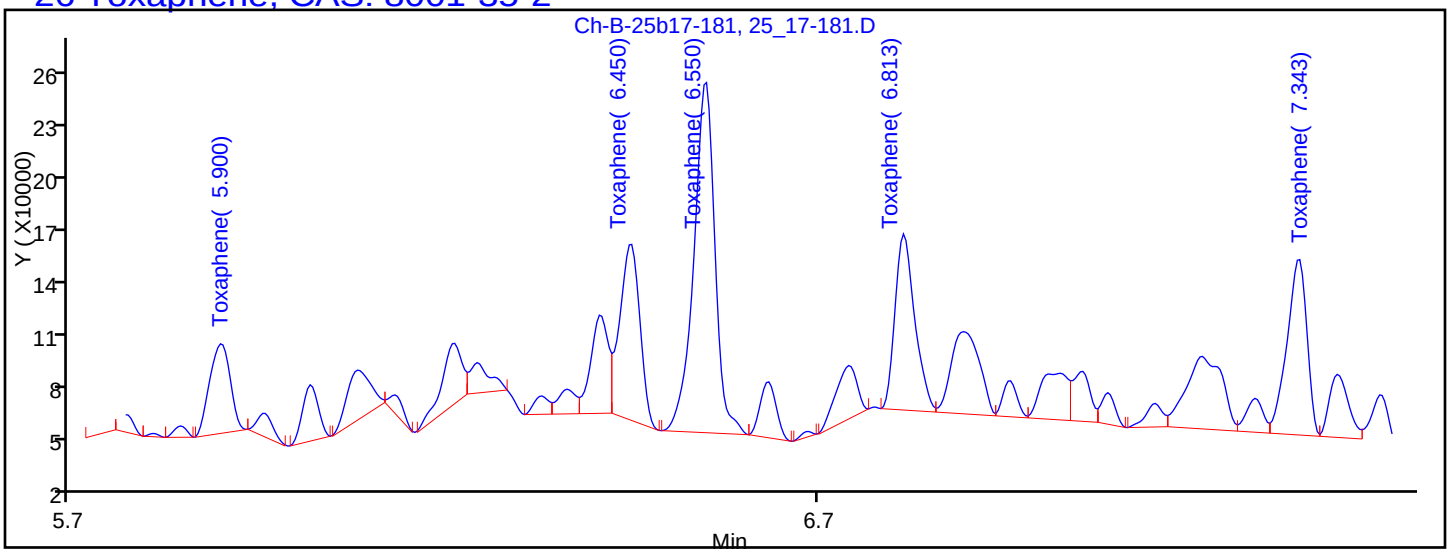
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 9

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: IS-8081 Limit Group: GC - 8081B IS ICAL

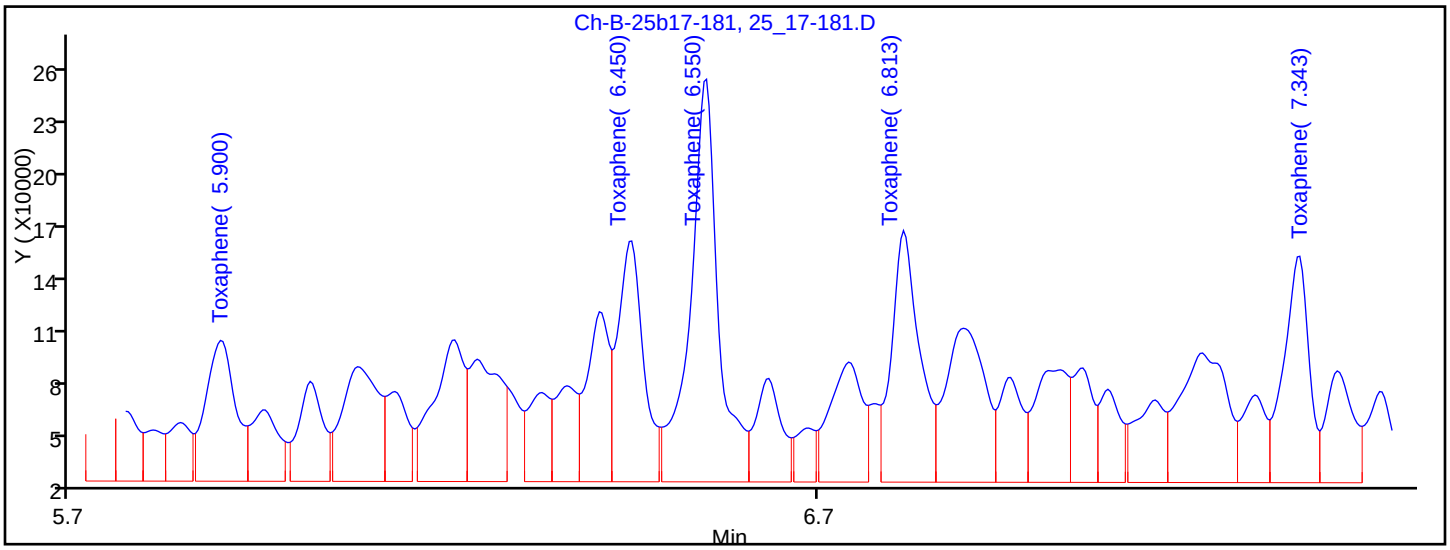
Column: Detector Ch-B-6b58132

26 Toxaphene, CAS: 8001-35-2



Processing Integration Results

5.900	Response = 96315
6.450	Response = 183165
6.550	Response = 387271
6.813	Response = 180866
7.343	Response = 182037



Manual Integration Results

5.900	Response = 216964	M
6.450	Response = 317700	M
6.550	Response = 593225	M
6.813	Response = 365978	M
7.343	Response = 296947	M

Reviewer: salversonj, 22-Jul-2017 11:33:24

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

FORM I
PESTICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121321-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 480-368029/1-A

Matrix: Solid | Lab File ID: 25_17-183.D

Analysis Method: 8081B | Date Collected:

Extraction Method: 3550C | Date Extracted: 07/21/2017 06:42

Sample wt/vol: 30.81(g) | Date Analyzed: 07/22/2017 11:27

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.: 368232 | Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	96		45-120
877-09-8	Tetrachloro-m-xylene	70		30-124

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170722-64256.b\25_17-183.D
Lims ID: MB 480-368029/1-A
Client ID:
Sample Type: MB
Inject. Date: 22-Jul-2017 11:27:41 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#, CN10839003
Operator ID: BufTCHROM Instrument ID: HP6890-25

Method: \\ChromNA\Buffalo\ChromData\HP6890-25\20170722-64256.b\IS-8081.m
Limit Group: GC - 8081B IS ICAL
Last Update: 24-Jul-2017 07:46:32 Calib Date: 20-Jul-2017 14:40:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\25_17-171.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK016

First Level Reviewer: salversonj Date: 22-Jul-2017 12:29:37

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 44 1-Bromo-2-nitrobenzene							
1	1.990	1.990	0.000	11892884	0.5000	0.5000	
2	2.193	2.193	0.000	8593172	0.5000	0.5000	
						RPD = 0.00	
$ 4 Tetrachloro-m-xylene							
1	2.517	2.517	0.000	303740	0.0200	0.0140	
2	2.903	2.903	0.000	252287	0.0200	0.0118	
						RPD = 17.15	
$ 34 DCB Decachlorobiphenyl							
1	7.780	7.780	0.000	468193	0.0200	0.0192	
2	8.843	8.843	0.000	279037	0.0200	0.0202	
						RPD = 5.04	

Reagents:

COPPER_00067 Amount Added: 1.00 Units: Packet Run Reagent
1-Br2nit 50ng_00008 Amount Added: 10.00 Units: uL Run Reagent

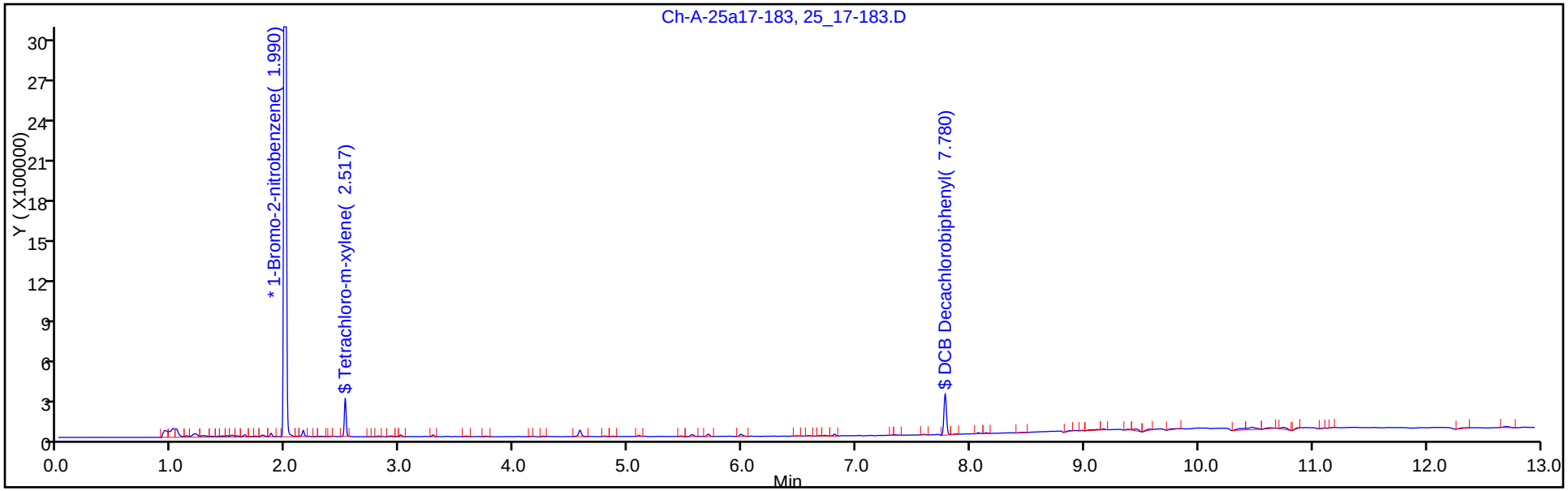
Report Date: 24-Jul-2017 07:46:33 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

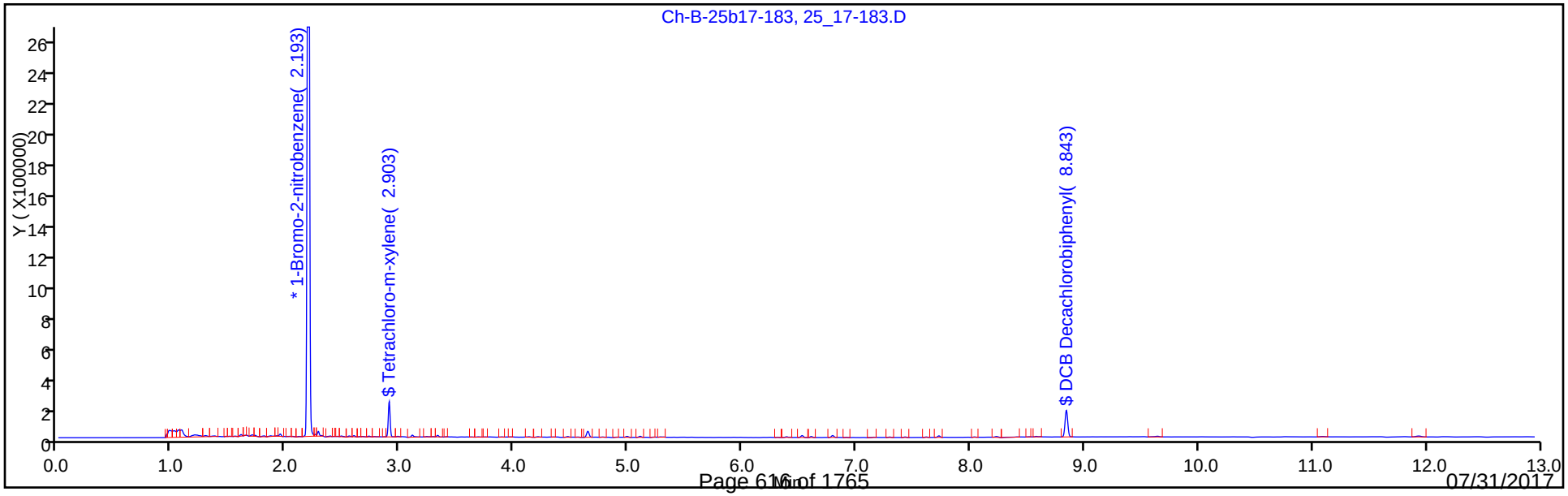
Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170722-64256.b\25_17-183.D

Injection Date:	22-Jul-2017 11:27:41	Instrument ID:	HP6890-25	Operator ID:	BufTCHROM
Lims ID:	MB 480-368029/1-A			Worklist Smp#:	11
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IS-8081	Limit Group:	GC - 8081B IS ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
PESTICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121321-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 480-368029/1-A

Matrix: Solid | Lab File ID: 25_17-183.D

Analysis Method: 8081B | Date Collected:

Extraction Method: 3550C | Date Extracted: 07/21/2017 06:42

Sample wt/vol: 30.81(g) | Date Analyzed: 07/22/2017 11:27

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.: 368232 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
72-54-8	4,4'-DDD	ND		1.6	0.32
72-55-9	4,4'-DDE	ND		1.6	0.34
50-29-3	4,4'-DDT	ND		1.6	0.38
309-00-2	Aldrin	ND		1.6	0.40
319-84-6	alpha-BHC	ND		1.6	0.29
5103-71-9	alpha-Chlordane	ND		1.6	0.81
319-85-7	beta-BHC	ND		1.6	0.29
319-86-8	delta-BHC	ND		1.6	0.30
60-57-1	Dieldrin	ND		1.6	0.39
959-98-8	Endosulfan I	ND		1.6	0.31
33213-65-9	Endosulfan II	ND		1.6	0.29
1031-07-8	Endosulfan sulfate	ND		1.6	0.30
72-20-8	Endrin	ND		1.6	0.32
7421-93-4	Endrin aldehyde	ND		1.6	0.41
53494-70-5	Endrin ketone	ND		1.6	0.40
58-89-9	gamma-BHC (Lindane)	ND		1.6	0.30
5103-74-2	gamma-Chlordane	ND		1.6	0.52
76-44-8	Heptachlor	ND		1.6	0.35
1024-57-3	Heptachlor epoxide	ND		1.6	0.42
72-43-5	Methoxychlor	ND		1.6	0.33
8001-35-2	Toxaphene	ND		16	9.4

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	101		45-120
877-09-8	Tetrachloro-m-xylene	59		30-124

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170722-64256.b\25_17-183.D
Lims ID: MB 480-368029/1-A
Client ID:
Sample Type: MB
Inject. Date: 22-Jul-2017 11:27:41 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#, CN10839003
Operator ID: BufTCHROM Instrument ID: HP6890-25

Method: \\ChromNA\Buffalo\ChromData\HP6890-25\20170722-64256.b\IS-8081.m
Limit Group: GC - 8081B IS ICAL
Last Update: 24-Jul-2017 07:46:32 Calib Date: 20-Jul-2017 14:40:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\25_17-171.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK016

First Level Reviewer: salversonj Date: 22-Jul-2017 12:29:37

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 44 1-Bromo-2-nitrobenzene							
1	1.990	1.990	0.000	11892884	0.5000	0.5000	
2	2.193	2.193	0.000	8593172	0.5000	0.5000	
						RPD = 0.00	
$ 4 Tetrachloro-m-xylene							
1	2.517	2.517	0.000	303740	0.0200	0.0140	
2	2.903	2.903	0.000	252287	0.0200	0.0118	
						RPD = 17.15	
$ 34 DCB Decachlorobiphenyl							
1	7.780	7.780	0.000	468193	0.0200	0.0192	
2	8.843	8.843	0.000	279037	0.0200	0.0202	
						RPD = 5.04	

Reagents:

COPPER_00067 Amount Added: 1.00 Units: Packet Run Reagent
1-Br2nit 50ng_00008 Amount Added: 10.00 Units: uL Run Reagent

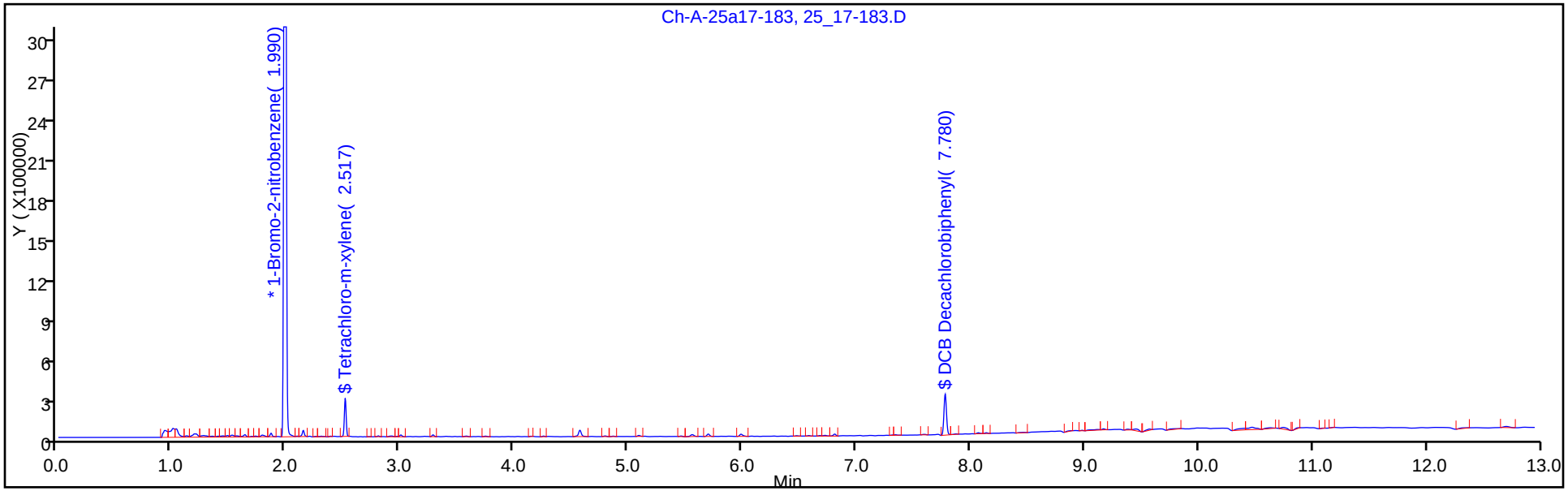
Report Date: 24-Jul-2017 07:46:33 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

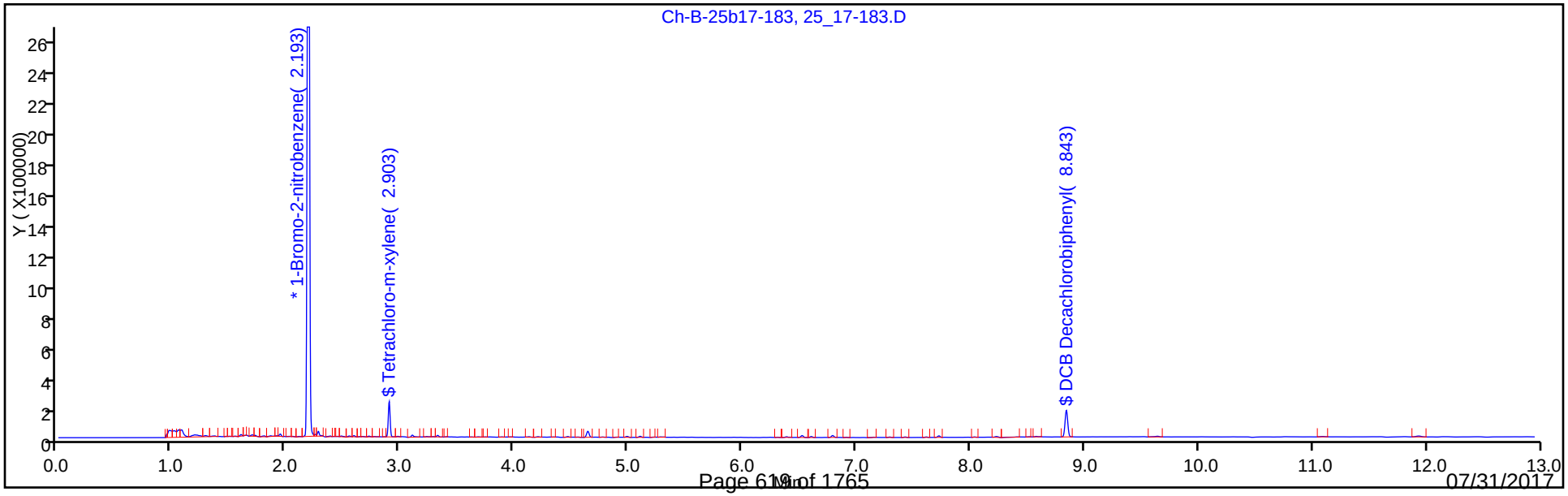
Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170722-64256.b\25_17-183.D

Injection Date:	22-Jul-2017 11:27:41	Instrument ID:	HP6890-25	Operator ID:	BufTCHROM
Lims ID:	MB 480-368029/1-A			Worklist Smp#:	11
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IS-8081	Limit Group:	GC - 8081B IS ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
PESTICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121321-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 480-368029/2-A

Matrix: Solid | Lab File ID: 25_17-184.D

Analysis Method: 8081B | Date Collected:

Extraction Method: 3550C | Date Extracted: 07/21/2017 06:42

Sample wt/vol: 30.75(g) | Date Analyzed: 07/22/2017 11:47

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.: 368232 | Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	92		45-120
877-09-8	Tetrachloro-m-xylene	71		30-124

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170722-64256.b\25_17-184.D
Lims ID: LCS 480-368029/2-A
Client ID:
Sample Type: LCS
Inject. Date: 22-Jul-2017 11:47:24 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#, CN10839003
Operator ID: BufTCHROM Instrument ID: HP6890-25

Method: \\ChromNA\Buffalo\ChromData\HP6890-25\20170722-64256.b\IS-8081.m
Limit Group: GC - 8081B IS ICAL
Last Update: 24-Jul-2017 07:46:32 Calib Date: 20-Jul-2017 14:40:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\25_17-171.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK016

First Level Reviewer: salversonj Date: 22-Jul-2017 12:33:27

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 44 1-Bromo-2-nitrobenzene							
1	1.990	1.990	0.000	11868225	0.5000	0.5000	
2	2.193	2.193	0.000	8531710	0.5000	0.5000	
						RPD = 0.00	
$ 4 Tetrachloro-m-xylene							
1	2.517	2.517	0.000	305731	0.0200	0.0142	
2	2.903	2.903	0.000	241594	0.0200	0.0114	
						RPD = 21.41	
6 alpha-BHC							
1	2.937	2.937	0.000	1487894	0.0500	0.0300	
2	3.450	3.450	0.000	1063127	0.0500	0.0309	
						RPD = 3.14	
7 gamma-BHC (Lindane)							
1	3.193	3.190	0.003	1419567	0.0500	0.0322	
2	3.797	3.797	0.000	999081	0.0500	0.0339	
						RPD = 5.31	
8 beta-BHC							
1	3.263	3.260	0.003	570180	0.0500	0.0328	
2	3.867	3.870	-0.003	402355	0.0500	0.0322	
						RPD = 1.92	
9 delta-BHC							
1	3.413	3.417	-0.004	1486682	0.0500	0.0340	
2	4.180	4.180	0.000	1040404	0.0500	0.0345	
						RPD = 1.37	
11 Heptachlor							
1	3.603	3.603	0.000	1432995	0.0500	0.0369	
2	4.263	4.267	-0.004	1038202	0.0500	0.0378	
						RPD = 2.58	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
12 Aldrin							
1	3.880	3.880	0.000	1189032	0.0500	0.0300	
2	4.613	4.617	-0.004	847443	0.0500	0.0312	
						RPD = 3.91	
14 Heptachlor epoxide							
1	4.473	4.473	0.000	1241082	0.0500	0.0366	
2	5.217	5.217	0.000	882017	0.0500	0.0391	
						RPD = 6.55	
16 gamma-Chlordane							
1	4.600	4.600	0.000	1358296	0.0500	0.0348	
2	5.417	5.417	0.000	908984	0.0500	0.0368	
						RPD = 5.75	
17 alpha-Chlordane							
1	4.733	4.733	0.000	1204917	0.0500	0.0328	
2	5.570	5.573	-0.003	822590	0.0500	0.0370	
						RPD = 12.05	
18 4,4'-DDE							
1	4.817	4.817	0.000	1338845	0.0500	0.0372	
2	5.730	5.733	-0.003	923650	0.0500	0.0399	
						RPD = 6.90	
19 Endosulfan I							
1	4.873	4.873	0.000	905132	0.0500	0.0294	
2	5.637	5.637	0.000	605286	0.0500	0.0301	
						RPD = 2.36	
21 Dieldrin							
1	5.117	5.120	-0.003	1406927	0.0500	0.0408	
2	5.923	5.927	-0.004	1003555	0.0500	0.0428	
						RPD = 4.95	
23 Endrin							
1	5.353	5.357	-0.004	1344752	0.0500	0.0409	
2	6.243	6.247	-0.004	876848	0.0500	0.0407	
						RPD = 0.51	
24 4,4'-DDD							
1	5.433	5.433	0.000	1195607	0.0500	0.0409	
2	6.333	6.337	-0.004	774039	0.0500	0.0429	
						RPD = 4.86	
27 Endosulfan II							
1	5.583	5.587	-0.004	953543	0.0500	0.0327	
2	6.460	6.463	-0.003	614328	0.0500	0.0328	
						RPD = 0.17	
28 4,4'-DDT							
1	5.720	5.723	-0.003	1352004	0.0500	0.0432	
2	6.660	6.663	-0.003	777265	0.0500	0.0431	
						RPD = 0.39	
29 Endrin aldehyde							
1	6.020	6.020	0.000	662930	0.0500	0.0281	
2	6.807	6.807	0.000	484889	0.0500	0.0335	
						RPD = 17.80	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
30 Methoxychlor							
1	6.230	6.233	-0.003	594003	0.0500	0.0436	
2	7.350	7.350	0.000	450331	0.0500	0.0554	
						RPD = 23.98	
32 Endosulfan sulfate							
1	6.467	6.467	0.000	1142964	0.0500	0.0435	
2	7.090	7.093	-0.003	596836	0.0500	0.0366	
						RPD = 17.36	
33 Endrin ketone							
1	6.750	6.750	0.000	1255985	0.0500	0.0412	
2	7.640	7.643	-0.003	754144	0.0500	0.0409	
						RPD = 0.53	
$ 34 DCB Decachlorobiphenyl							
1	7.780	7.780	0.000	447439	0.0200	0.0184	
2	8.840	8.843	-0.003	274011	0.0200	0.0200	
						RPD = 8.30	

Reagents:

COPPER_00067	Amount Added: 1.00	Units: Packet	Run Reagent
1-Br2nit 50ng_00008	Amount Added: 10.00	Units: uL	Run Reagent

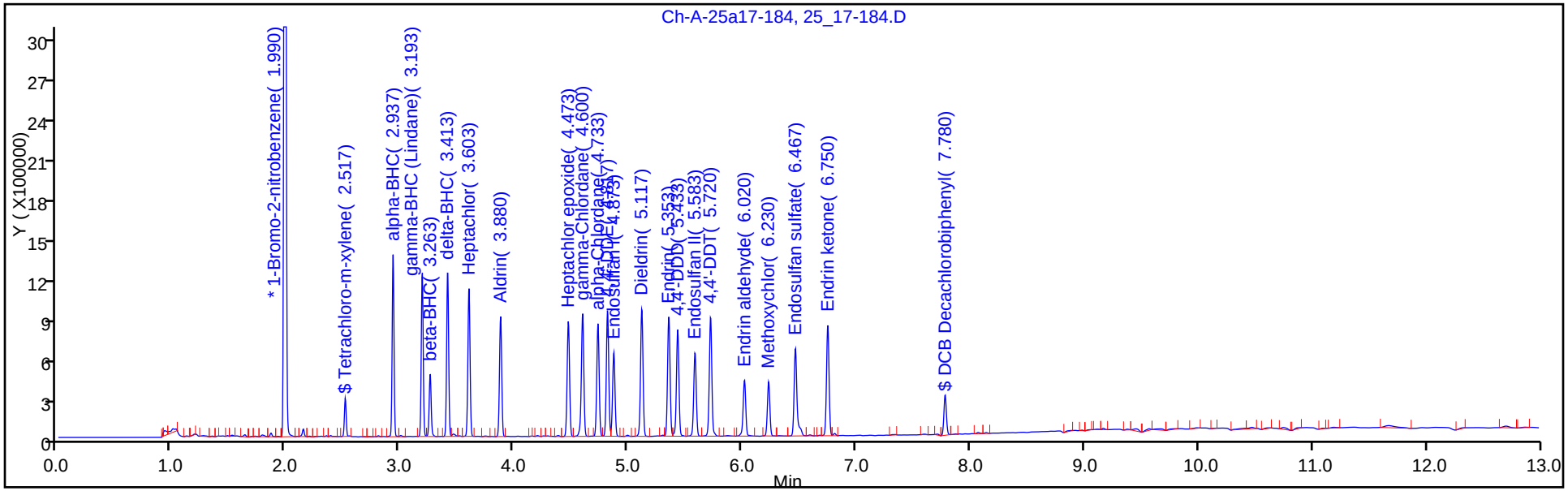
Report Date: 24-Jul-2017 07:46:35 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

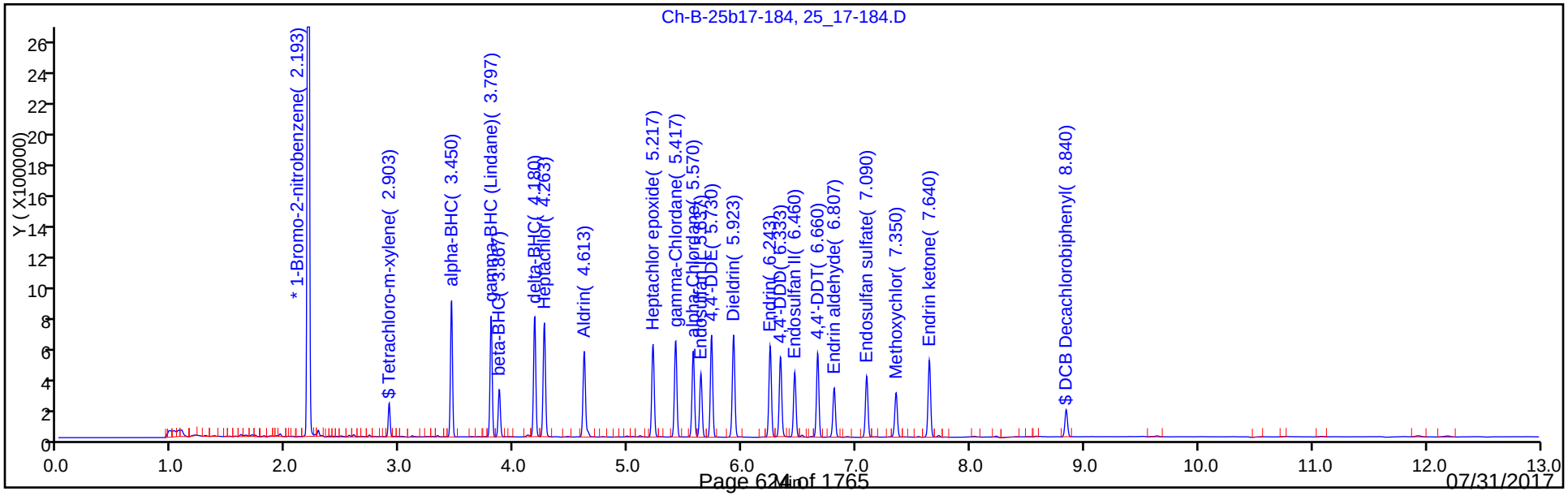
Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170722-64256.b\25_17-184.D

Injection Date:	22-Jul-2017 11:47:24	Instrument ID:	HP6890-25	Operator ID:	BufTCHROM
Lims ID:	LCS 480-368029/2-A			Worklist Smp#:	12
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IS-8081	Limit Group:	GC - 8081B IS ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
PESTICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121321-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 480-368029/2-A

Matrix: Solid | Lab File ID: 25_17-184.D

Analysis Method: 8081B | Date Collected:

Extraction Method: 3550C | Date Extracted: 07/21/2017 06:42

Sample wt/vol: 30.75(g) | Date Analyzed: 07/22/2017 11:47

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.: 368232 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
72-54-8	4,4'-DDD	14.0		1.6	0.32
72-55-9	4,4'-DDE	13.0		1.6	0.34
50-29-3	4,4'-DDT	14.0		1.6	0.38
309-00-2	Aldrin	10.1		1.6	0.40
319-84-6	alpha-BHC	10.1		1.6	0.29
5103-71-9	alpha-Chlordane	12.0		1.6	0.81
319-85-7	beta-BHC	10.5		1.6	0.29
319-86-8	delta-BHC	11.2		1.6	0.30
60-57-1	Dieldrin	13.9		1.6	0.39
959-98-8	Endosulfan I	9.78		1.6	0.31
33213-65-9	Endosulfan II	10.7		1.6	0.29
1031-07-8	Endosulfan sulfate	11.9		1.6	0.30
72-20-8	Endrin	13.2		1.6	0.32
7421-93-4	Endrin aldehyde	10.9		1.6	0.42
53494-70-5	Endrin ketone	13.3		1.6	0.40
58-89-9	gamma-BHC (Lindane)	11.0		1.6	0.30
5103-74-2	gamma-Chlordane	12.0		1.6	0.52
76-44-8	Heptachlor	12.3		1.6	0.35
1024-57-3	Heptachlor epoxide	12.7		1.6	0.42
72-43-5	Methoxychlor	18.0		1.6	0.33

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	100		45-120
877-09-8	Tetrachloro-m-xylene	57		30-124

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170722-64256.b\25_17-184.D
Lims ID: LCS 480-368029/2-A
Client ID:
Sample Type: LCS
Inject. Date: 22-Jul-2017 11:47:24 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#, CN10839003
Operator ID: BufTCHROM Instrument ID: HP6890-25

Method: \\ChromNA\Buffalo\ChromData\HP6890-25\20170722-64256.b\IS-8081.m
Limit Group: GC - 8081B IS ICAL
Last Update: 24-Jul-2017 07:46:32 Calib Date: 20-Jul-2017 14:40:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\25_17-171.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK016

First Level Reviewer: salversonj Date: 22-Jul-2017 12:33:27

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 44 1-Bromo-2-nitrobenzene							
1	1.990	1.990	0.000	11868225	0.5000	0.5000	
2	2.193	2.193	0.000	8531710	0.5000	0.5000	
						RPD = 0.00	
$ 4 Tetrachloro-m-xylene							
1	2.517	2.517	0.000	305731	0.0200	0.0142	
2	2.903	2.903	0.000	241594	0.0200	0.0114	
						RPD = 21.41	
6 alpha-BHC							
1	2.937	2.937	0.000	1487894	0.0500	0.0300	
2	3.450	3.450	0.000	1063127	0.0500	0.0309	
						RPD = 3.14	
7 gamma-BHC (Lindane)							
1	3.193	3.190	0.003	1419567	0.0500	0.0322	
2	3.797	3.797	0.000	999081	0.0500	0.0339	
						RPD = 5.31	
8 beta-BHC							
1	3.263	3.260	0.003	570180	0.0500	0.0328	
2	3.867	3.870	-0.003	402355	0.0500	0.0322	
						RPD = 1.92	
9 delta-BHC							
1	3.413	3.417	-0.004	1486682	0.0500	0.0340	
2	4.180	4.180	0.000	1040404	0.0500	0.0345	
						RPD = 1.37	
11 Heptachlor							
1	3.603	3.603	0.000	1432995	0.0500	0.0369	
2	4.263	4.267	-0.004	1038202	0.0500	0.0378	
						RPD = 2.58	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
12 Aldrin							
1	3.880	3.880	0.000	1189032	0.0500	0.0300	
2	4.613	4.617	-0.004	847443	0.0500	0.0312	
						RPD = 3.91	
14 Heptachlor epoxide							
1	4.473	4.473	0.000	1241082	0.0500	0.0366	
2	5.217	5.217	0.000	882017	0.0500	0.0391	
						RPD = 6.55	
16 gamma-Chlordane							
1	4.600	4.600	0.000	1358296	0.0500	0.0348	
2	5.417	5.417	0.000	908984	0.0500	0.0368	
						RPD = 5.75	
17 alpha-Chlordane							
1	4.733	4.733	0.000	1204917	0.0500	0.0328	
2	5.570	5.573	-0.003	822590	0.0500	0.0370	
						RPD = 12.05	
18 4,4'-DDE							
1	4.817	4.817	0.000	1338845	0.0500	0.0372	
2	5.730	5.733	-0.003	923650	0.0500	0.0399	
						RPD = 6.90	
19 Endosulfan I							
1	4.873	4.873	0.000	905132	0.0500	0.0294	
2	5.637	5.637	0.000	605286	0.0500	0.0301	
						RPD = 2.36	
21 Dieldrin							
1	5.117	5.120	-0.003	1406927	0.0500	0.0408	
2	5.923	5.927	-0.004	1003555	0.0500	0.0428	
						RPD = 4.95	
23 Endrin							
1	5.353	5.357	-0.004	1344752	0.0500	0.0409	
2	6.243	6.247	-0.004	876848	0.0500	0.0407	
						RPD = 0.51	
24 4,4'-DDD							
1	5.433	5.433	0.000	1195607	0.0500	0.0409	
2	6.333	6.337	-0.004	774039	0.0500	0.0429	
						RPD = 4.86	
27 Endosulfan II							
1	5.583	5.587	-0.004	953543	0.0500	0.0327	
2	6.460	6.463	-0.003	614328	0.0500	0.0328	
						RPD = 0.17	
28 4,4'-DDT							
1	5.720	5.723	-0.003	1352004	0.0500	0.0432	
2	6.660	6.663	-0.003	777265	0.0500	0.0431	
						RPD = 0.39	
29 Endrin aldehyde							
1	6.020	6.020	0.000	662930	0.0500	0.0281	
2	6.807	6.807	0.000	484889	0.0500	0.0335	
						RPD = 17.80	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
30 Methoxychlor							
1	6.230	6.233	-0.003	594003	0.0500	0.0436	
2	7.350	7.350	0.000	450331	0.0500	0.0554	
						RPD = 23.98	
32 Endosulfan sulfate							
1	6.467	6.467	0.000	1142964	0.0500	0.0435	
2	7.090	7.093	-0.003	596836	0.0500	0.0366	
						RPD = 17.36	
33 Endrin ketone							
1	6.750	6.750	0.000	1255985	0.0500	0.0412	
2	7.640	7.643	-0.003	754144	0.0500	0.0409	
						RPD = 0.53	
$ 34 DCB Decachlorobiphenyl							
1	7.780	7.780	0.000	447439	0.0200	0.0184	
2	8.840	8.843	-0.003	274011	0.0200	0.0200	
						RPD = 8.30	

Reagents:

COPPER_00067	Amount Added: 1.00	Units: Packet	Run Reagent
1-Br2nit 50ng_00008	Amount Added: 10.00	Units: uL	Run Reagent

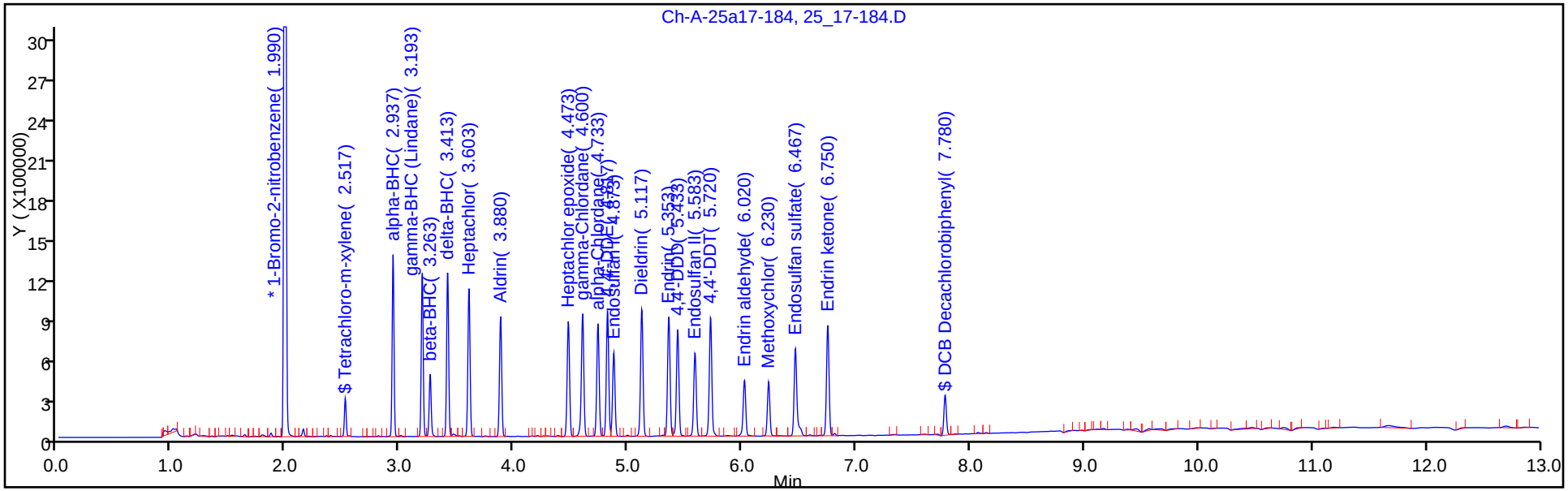
Report Date: 24-Jul-2017 07:46:35 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

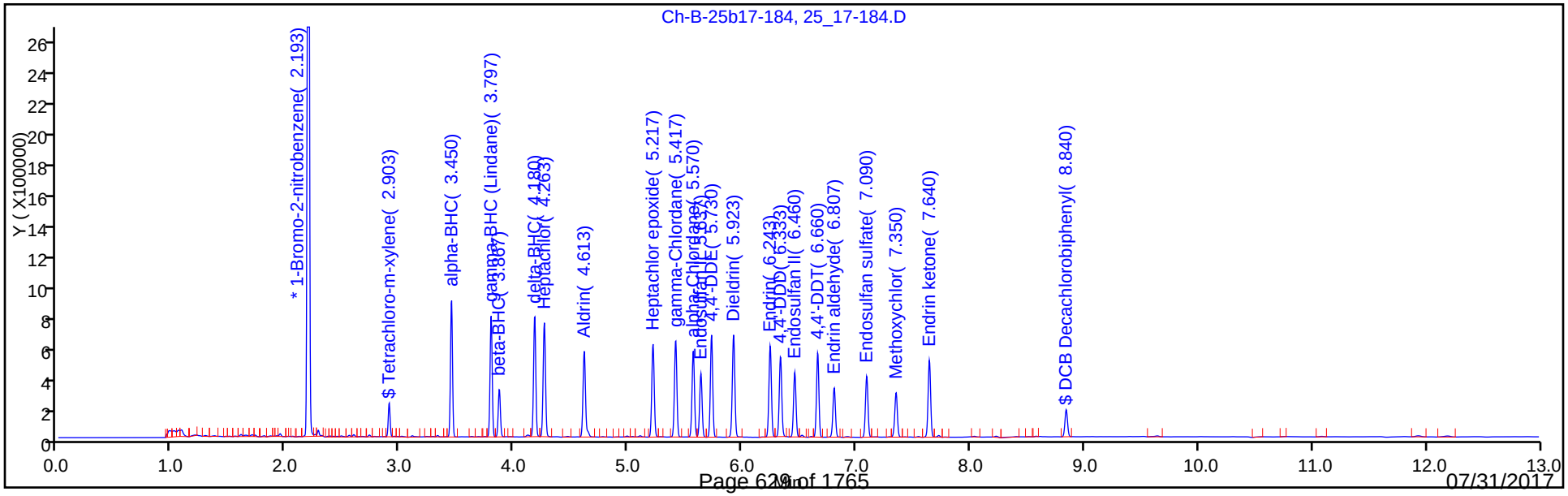
Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170722-64256.b\25_17-184.D

Injection Date:	22-Jul-2017 11:47:24	Instrument ID:	HP6890-25	Operator ID:	BufTCHROM
Lims ID:	LCS 480-368029/2-A			Worklist Smp#:	12
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IS-8081	Limit Group:	GC - 8081B IS ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
PESTICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121321-1

SDG No.:

Client Sample ID: TP-04 MS | Lab Sample ID: 480-121321-4 MS

Matrix: Solid | Lab File ID: 25_17-185.D

Analysis Method: 8081B | Date Collected: 07/19/2017 13:00

Extraction Method: 3550C | Date Extracted: 07/21/2017 06:42

Sample wt/vol: 30.07(g) | Date Analyzed: 07/22/2017 12:07

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RTX-CLPI ID: 0.53(mm)

% Moisture: 17.9 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 368232 | Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	97		45-120
877-09-8	Tetrachloro-m-xylene	72		30-124

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170722-64256.b\25_17-185.D
Lims ID: 480-121321-B-4-D MS
Client ID: TP-04
Sample Type: MS
Inject. Date: 22-Jul-2017 12:07:09 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#, CN10839003
Operator ID: BufTCHROM Instrument ID: HP6890-25

Method: \\ChromNA\Buffalo\ChromData\HP6890-25\20170722-64256.b\IS-8081.m
Limit Group: GC - 8081B IS ICAL
Last Update: 24-Jul-2017 07:52:57 Calib Date: 20-Jul-2017 14:40:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\25_17-171.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK016

First Level Reviewer: NearyM Date: 24-Jul-2017 10:32:32

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 44 1-Bromo-2-nitrobenzene							
1	1.990	1.987	0.003	12077087	0.5000	0.5000	
2	2.193	2.193	0.000	8423370	0.5000	0.5000	
						RPD = 0.00	
$ 4 Tetrachloro-m-xylene							
1	2.517	2.517	0.000	317352	0.0200	0.0144	
2	2.903	2.903	0.000	305468	0.0200	0.0145	
						RPD = 0.73	
6 alpha-BHC							
1	2.937	2.937	0.000	1666060	0.0500	0.0329	
2	3.450	3.450	0.000	1257050	0.0500	0.0369	
						RPD = 11.38	
7 gamma-BHC (Lindane)							
1	3.193	3.190	0.003	1691475	0.0500	0.0375	
2	3.797	3.797	0.000	1184002	0.0500	0.0405	
						RPD = 7.67	
8 beta-BHC							
1	3.263	3.260	0.003	733441	0.0500	0.0413	
2	3.870	3.870	0.000	482034	0.0500	0.0389	
						RPD = 5.96	
9 delta-BHC							
1	3.417	3.417	0.000	1778573	0.0500	0.0398	
2	4.180	4.180	0.000	1207616	0.0500	0.0404	
						RPD = 1.32	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
11 Heptachlor							
1	3.603	3.603	0.000	1630993	0.0500	0.0412	
2	4.263	4.267	-0.004	1169519	0.0500	0.0431	
						RPD = 4.43	
12 Aldrin							
1	3.880	3.880	0.000	1478437	0.0500	0.0366	
2	4.613	4.617	-0.004	1063155	0.0500	0.0395	
						RPD = 7.75	
14 Heptachlor epoxide							
1	4.473	4.473	0.000	1472349	0.0500	0.0428	
2	5.217	5.217	0.000	990046	0.0500	0.0444	
						RPD = 3.81	
16 gamma-Chlordane							
1	4.600	4.600	0.000	1479928	0.0500	0.0372	
2	5.417	5.417	0.000	1044242	0.0500	0.0427	
						RPD = 13.79	
17 alpha-Chlordane							
1	4.733	4.733	0.000	1332153	0.0500	0.0356	
2	5.570	5.573	-0.003	893550	0.0500	0.0407	
						RPD = 13.21	
18 4,4'-DDE							
1	4.817	4.817	0.000	1479608	0.0500	0.0403	
2	5.730	5.733	-0.003	1005998	0.0500	0.0439	
						RPD = 8.44	
19 Endosulfan I							
1	4.873	4.873	0.000	994002	0.0500	0.0317	
2	5.637	5.637	0.000	664851	0.0500	0.0334	
						RPD = 5.26	
21 Dieldrin							
1	5.117	5.120	-0.003	1546041	0.0500	0.0440	
2	5.923	5.927	-0.004	1069184	0.0500	0.0462	
						RPD = 4.81	
23 Endrin							
1	5.353	5.357	-0.004	1488502	0.0500	0.0445	
2	6.243	6.247	-0.004	951455	0.0500	0.0446	
						RPD = 0.36	
24 4,4'-DDD							
1	5.433	5.433	0.000	1282787	0.0500	0.0431	
2	6.333	6.337	-0.004	848508	0.0500	0.0475	
						RPD = 9.89	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
27 Endosulfan II							
1	5.583	5.587	-0.004	1046025	0.0500	0.0353	
2	6.460	6.463	-0.003	692184	0.0500	0.0374	
						RPD = 5.73	
28 4,4'-DDT							
1	5.720	5.723	-0.003	1494300	0.0500	0.0468	
2	6.660	6.663	-0.003	886937	0.0500	0.0495	
						RPD = 5.46	
29 Endrin aldehyde							
1	6.020	6.020	0.000	905439	0.0500	0.0378	
2	6.803	6.807	-0.004	684808	0.0500	0.0479	
						RPD = 23.63	
30 Methoxychlor							
1	6.230	6.233	-0.003	690852	0.0500	0.0497	
2	7.347	7.350	-0.003	659881	0.0500	0.0815	
						RPD = 48.39	
32 Endosulfan sulfate							
1	6.467	6.467	0.000	1685979	0.0500	0.0631	
2	7.090	7.093	-0.003	779105	0.0500	0.0482	
						RPD = 26.85	
33 Endrin ketone							
1	6.750	6.750	0.000	1493914	0.0500	0.0481	
2	7.640	7.643	-0.003	890427	0.0500	0.0488	
						RPD = 1.40	
$ 34 DCB Decachlorobiphenyl							
1	7.780	7.780	0.000	478920	0.0200	0.0193	
2	8.840	8.843	-0.003	287578	0.0200	0.0212	
						RPD = 9.34	
S 1 BHC, Total							
1						0.1517	
2						0.1568	
						RPD = 3.31	

Reagents:

COPPER_00067	Amount Added: 1.00	Units: Packet	Run Reagent
1-Br2nit 50ng_00008	Amount Added: 10.00	Units: uL	Run Reagent

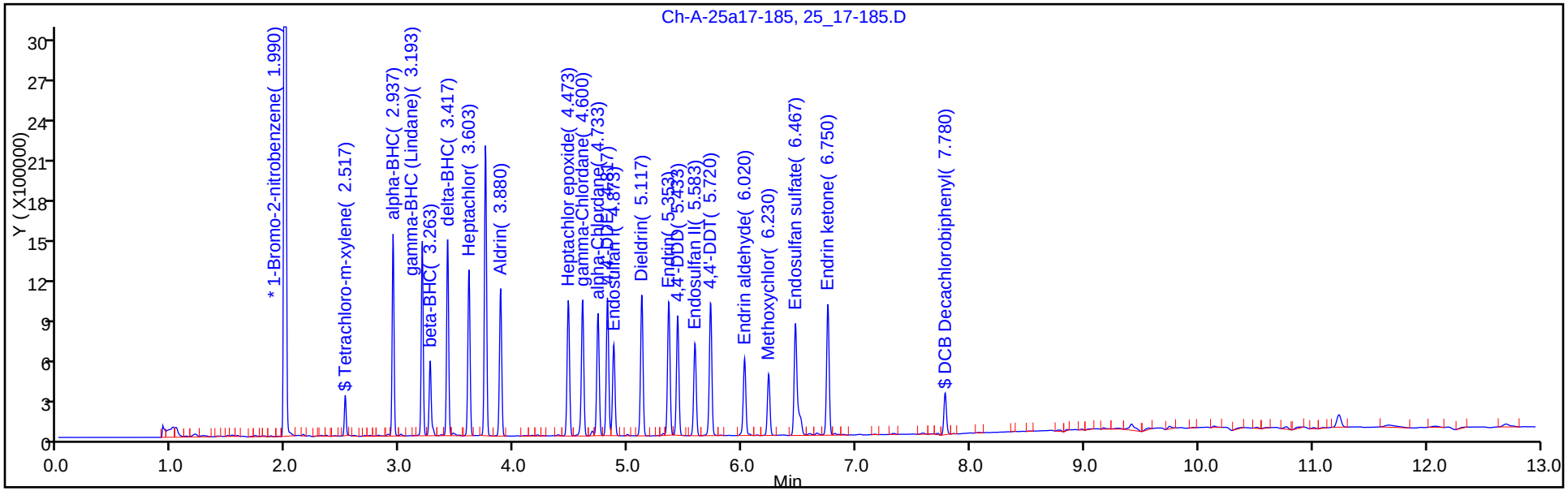
Report Date: 24-Jul-2017 10:32:34 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

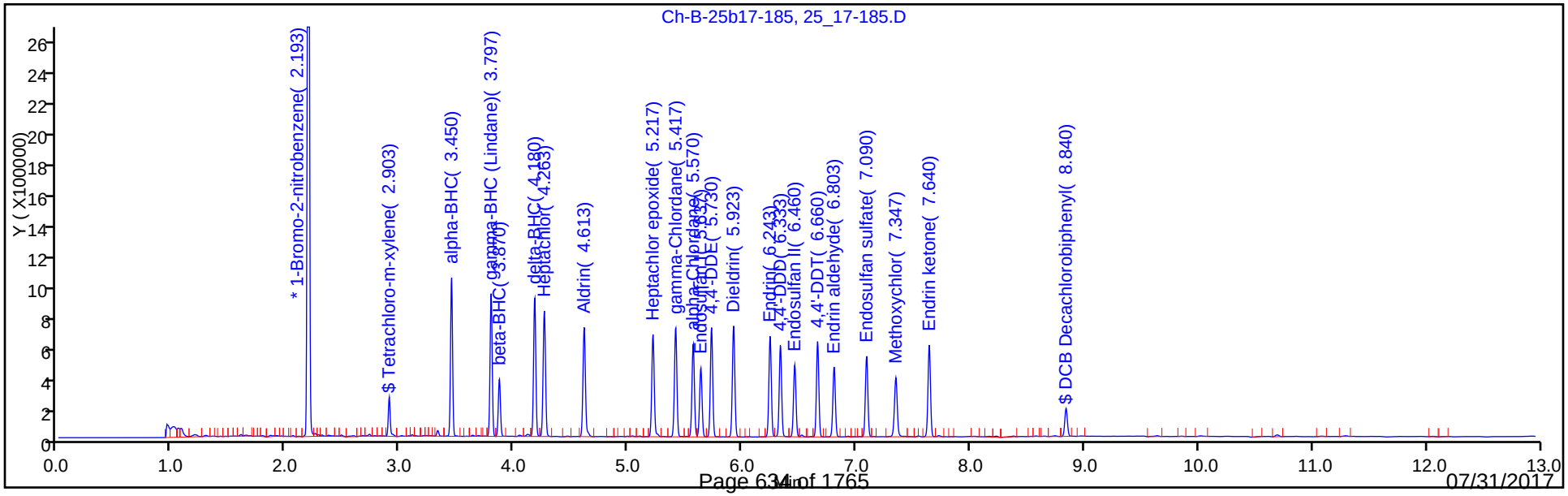
Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170722-64256.b\25_17-185.D

Injection Date:	22-Jul-2017 12:07:09	Instrument ID:	HP6890-25	Operator ID:	BufTCHROM
Lims ID:	480-121321-B-4-D MS			Worklist Smp#:	13
Client ID:	TP-04				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IS-8081	Limit Group:	GC - 8081B IS ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
PESTICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121321-1

SDG No.:

Client Sample ID: TP-04 MS | Lab Sample ID: 480-121321-4 MS

Matrix: Solid | Lab File ID: 25_17-185.D

Analysis Method: 8081B | Date Collected: 07/19/2017 13:00

Extraction Method: 3550C | Date Extracted: 07/21/2017 06:42

Sample wt/vol: 30.07(g) | Date Analyzed: 07/22/2017 12:07

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RTX-CLPII ID: 0.53(mm)

% Moisture: 17.9 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 368232 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
72-54-8	4,4'-DDD	19.3		2.0	0.39
72-55-9	4,4'-DDE	17.8		2.0	0.43
50-29-3	4,4'-DDT	20.0		2.0	0.47
309-00-2	Aldrin	16.0		2.0	0.50
319-84-6	alpha-BHC	15.0		2.0	0.36
5103-71-9	alpha-Chlordane	16.5		2.0	1.0
319-85-7	beta-BHC	15.8		2.0	0.36
319-86-8	delta-BHC	16.4		2.0	0.38
60-57-1	Dieldrin	18.7		2.0	0.49
959-98-8	Endosulfan I	13.5		2.0	0.39
33213-65-9	Endosulfan II	15.1		2.0	0.36
1031-07-8	Endosulfan sulfate	19.5		2.0	0.38
72-20-8	Endrin	18.1		2.0	0.40
7421-93-4	Endrin aldehyde	19.4		2.0	0.52
53494-70-5	Endrin ketone	19.8		2.0	0.50
58-89-9	gamma-BHC (Lindane)	16.4		2.0	0.37
5103-74-2	gamma-Chlordane	17.3		2.0	0.64
76-44-8	Heptachlor	17.5		2.0	0.44
1024-57-3	Heptachlor epoxide	18.0		2.0	0.52
72-43-5	Methoxychlor	33.0		2.0	0.41
8001-35-2	Toxaphene	ND		20	12

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	106		45-120
877-09-8	Tetrachloro-m-xylene	73		30-124

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170722-64256.b\25_17-185.D
Lims ID: 480-121321-B-4-D MS
Client ID: TP-04
Sample Type: MS
Inject. Date: 22-Jul-2017 12:07:09 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#, CN10839003
Operator ID: BufTCHROM Instrument ID: HP6890-25

Method: \\ChromNA\Buffalo\ChromData\HP6890-25\20170722-64256.b\IS-8081.m
Limit Group: GC - 8081B IS ICAL
Last Update: 24-Jul-2017 07:52:57 Calib Date: 20-Jul-2017 14:40:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\25_17-171.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK016

First Level Reviewer: NearyM Date: 24-Jul-2017 10:32:32

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 44 1-Bromo-2-nitrobenzene							
1	1.990	1.987	0.003	12077087	0.5000	0.5000	
2	2.193	2.193	0.000	8423370	0.5000	0.5000	
						RPD = 0.00	
$ 4 Tetrachloro-m-xylene							
1	2.517	2.517	0.000	317352	0.0200	0.0144	
2	2.903	2.903	0.000	305468	0.0200	0.0145	
						RPD = 0.73	
6 alpha-BHC							
1	2.937	2.937	0.000	1666060	0.0500	0.0329	
2	3.450	3.450	0.000	1257050	0.0500	0.0369	
						RPD = 11.38	
7 gamma-BHC (Lindane)							
1	3.193	3.190	0.003	1691475	0.0500	0.0375	
2	3.797	3.797	0.000	1184002	0.0500	0.0405	
						RPD = 7.67	
8 beta-BHC							
1	3.263	3.260	0.003	733441	0.0500	0.0413	
2	3.870	3.870	0.000	482034	0.0500	0.0389	
						RPD = 5.96	
9 delta-BHC							
1	3.417	3.417	0.000	1778573	0.0500	0.0398	
2	4.180	4.180	0.000	1207616	0.0500	0.0404	
						RPD = 1.32	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
11 Heptachlor							
1	3.603	3.603	0.000	1630993	0.0500	0.0412	
2	4.263	4.267	-0.004	1169519	0.0500	0.0431	
						RPD = 4.43	
12 Aldrin							
1	3.880	3.880	0.000	1478437	0.0500	0.0366	
2	4.613	4.617	-0.004	1063155	0.0500	0.0395	
						RPD = 7.75	
14 Heptachlor epoxide							
1	4.473	4.473	0.000	1472349	0.0500	0.0428	
2	5.217	5.217	0.000	990046	0.0500	0.0444	
						RPD = 3.81	
16 gamma-Chlordane							
1	4.600	4.600	0.000	1479928	0.0500	0.0372	
2	5.417	5.417	0.000	1044242	0.0500	0.0427	
						RPD = 13.79	
17 alpha-Chlordane							
1	4.733	4.733	0.000	1332153	0.0500	0.0356	
2	5.570	5.573	-0.003	893550	0.0500	0.0407	
						RPD = 13.21	
18 4,4'-DDE							
1	4.817	4.817	0.000	1479608	0.0500	0.0403	
2	5.730	5.733	-0.003	1005998	0.0500	0.0439	
						RPD = 8.44	
19 Endosulfan I							
1	4.873	4.873	0.000	994002	0.0500	0.0317	
2	5.637	5.637	0.000	664851	0.0500	0.0334	
						RPD = 5.26	
21 Dieldrin							
1	5.117	5.120	-0.003	1546041	0.0500	0.0440	
2	5.923	5.927	-0.004	1069184	0.0500	0.0462	
						RPD = 4.81	
23 Endrin							
1	5.353	5.357	-0.004	1488502	0.0500	0.0445	
2	6.243	6.247	-0.004	951455	0.0500	0.0446	
						RPD = 0.36	
24 4,4'-DDD							
1	5.433	5.433	0.000	1282787	0.0500	0.0431	
2	6.333	6.337	-0.004	848508	0.0500	0.0475	
						RPD = 9.89	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
27 Endosulfan II							
1	5.583	5.587	-0.004	1046025	0.0500	0.0353	
2	6.460	6.463	-0.003	692184	0.0500	0.0374	
						RPD = 5.73	
28 4,4'-DDT							
1	5.720	5.723	-0.003	1494300	0.0500	0.0468	
2	6.660	6.663	-0.003	886937	0.0500	0.0495	
						RPD = 5.46	
29 Endrin aldehyde							
1	6.020	6.020	0.000	905439	0.0500	0.0378	
2	6.803	6.807	-0.004	684808	0.0500	0.0479	
						RPD = 23.63	
30 Methoxychlor							
1	6.230	6.233	-0.003	690852	0.0500	0.0497	
2	7.347	7.350	-0.003	659881	0.0500	0.0815	
						RPD = 48.39	
32 Endosulfan sulfate							
1	6.467	6.467	0.000	1685979	0.0500	0.0631	
2	7.090	7.093	-0.003	779105	0.0500	0.0482	
						RPD = 26.85	
33 Endrin ketone							
1	6.750	6.750	0.000	1493914	0.0500	0.0481	
2	7.640	7.643	-0.003	890427	0.0500	0.0488	
						RPD = 1.40	
$ 34 DCB Decachlorobiphenyl							
1	7.780	7.780	0.000	478920	0.0200	0.0193	
2	8.840	8.843	-0.003	287578	0.0200	0.0212	
						RPD = 9.34	
S 1 BHC, Total							
1						0.1517	
2						0.1568	
						RPD = 3.31	

Reagents:

COPPER_00067	Amount Added: 1.00	Units: Packet	Run Reagent
1-Br2nit 50ng_00008	Amount Added: 10.00	Units: uL	Run Reagent

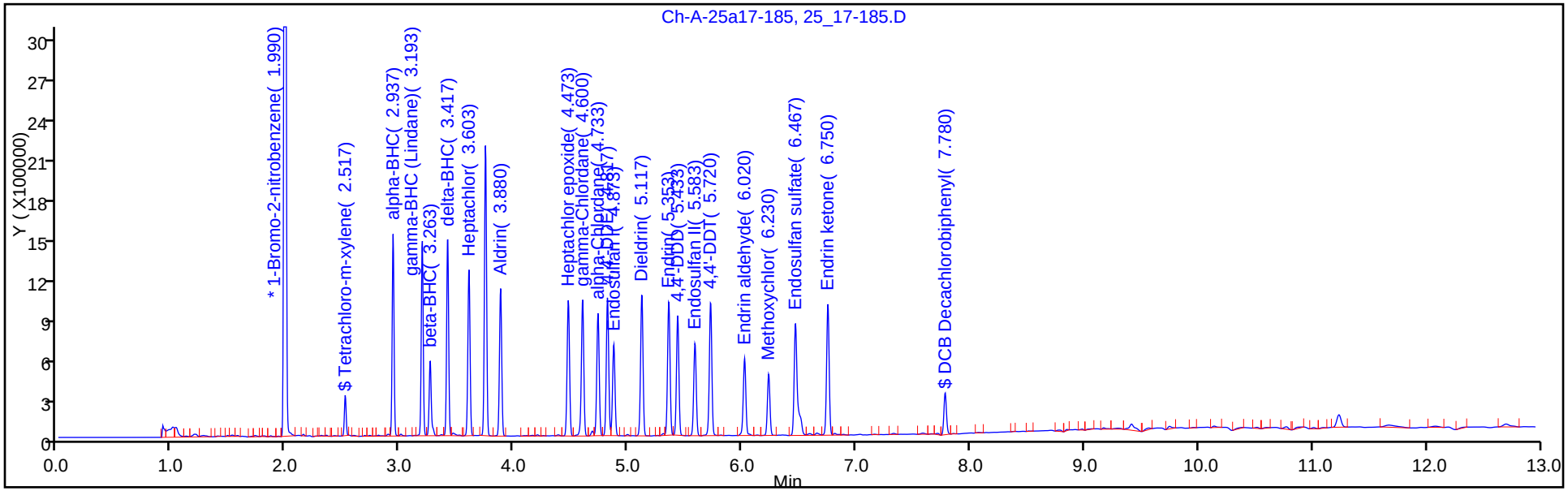
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TestAmerica Buffalo

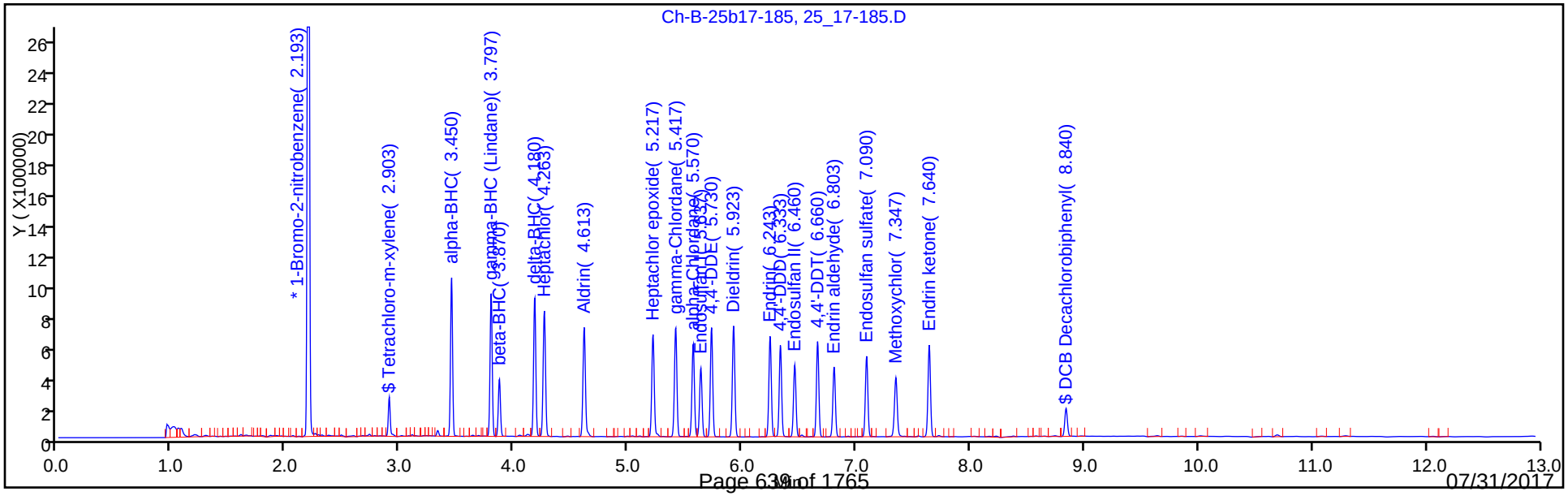
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Injection Date:	22-Jul-2017 12:07:09	Instrument ID:	HP6890-25	Operator ID:	BufTCHROM
Lims ID:	480-121321-B-4-D MS			Worklist Smp#:	13
Client ID:	TP-04				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IS-8081	Limit Group:	GC - 8081B IS ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
PESTICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121321-1

SDG No.:

Client Sample ID: TP-04 MSD | Lab Sample ID: 480-121321-4 MSD

Matrix: Solid | Lab File ID: 25_17-186.D

Analysis Method: 8081B | Date Collected: 07/19/2017 13:00

Extraction Method: 3550C | Date Extracted: 07/21/2017 06:42

Sample wt/vol: 30.47(g) | Date Analyzed: 07/22/2017 12:26

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RTX-CLPI ID: 0.53(mm)

% Moisture: 17.9 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 368232 | Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	100		45-120
877-09-8	Tetrachloro-m-xylene	82		30-124

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170722-64256.b\25_17-186.D
Lims ID: 480-121321-B-4-E MSD
Client ID: TP-04
Sample Type: MSD
Inject. Date: 22-Jul-2017 12:26:43 ALS Bottle#: 0 Worklist Smp#: 14
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, CN10839003
Operator ID: BufTCHROM Instrument ID: HP6890-25

Method: \\ChromNA\Buffalo\ChromData\HP6890-25\20170722-64256.b\IS-8081.m
Limit Group: GC - 8081B IS ICAL
Last Update: 24-Jul-2017 07:46:32 Calib Date: 20-Jul-2017 14:40:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\25_17-171.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK016

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 44 1-Bromo-2-nitrobenzene							
1	1.990	1.990	0.000	11674902	0.5000	0.5000	
2	2.193	2.193	0.000	8194838	0.5000	0.5000	
						RPD = 0.00	
$ 4 Tetrachloro-m-xylene							
1	2.517	2.517	0.000	351280	0.0200	0.0163	
2	2.903	2.903	0.000	314904	0.0200	0.0154	
						RPD = 6.21	
6 alpha-BHC							
1	2.937	2.937	0.000	1716513	0.0500	0.0351	
2	3.450	3.450	0.000	1272377	0.0500	0.0384	
						RPD = 9.01	
7 gamma-BHC (Lindane)							
1	3.193	3.190	0.003	1703086	0.0500	0.0391	
2	3.797	3.797	0.000	1189941	0.0500	0.0419	
						RPD = 6.85	
8 beta-BHC							
1	3.260	3.260	0.000	750755	0.0500	0.0437	
2	3.870	3.870	0.000	484743	0.0500	0.0402	
						RPD = 8.34	
9 delta-BHC							
1	3.413	3.417	-0.004	1811577	0.0500	0.0419	
2	4.180	4.180	0.000	1228233	0.0500	0.0422	
						RPD = 0.55	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
11 Heptachlor							
1	3.603	3.603	0.000	1670552	0.0500	0.0437	
2	4.263	4.267	-0.004	1169550	0.0500	0.0443	
						RPD = 1.36	
12 Aldrin							
1	3.880	3.880	0.000	1511587	0.0500	0.0387	
2	4.613	4.617	-0.004	1070594	0.0500	0.0409	
						RPD = 5.61	
14 Heptachlor epoxide							
1	4.473	4.473	0.000	1486100	0.0500	0.0447	
2	5.217	5.217	0.000	987500	0.0500	0.0455	
						RPD = 1.93	
16 gamma-Chlordane							
1	4.600	4.600	0.000	1498021	0.0500	0.0389	
2	5.417	5.417	0.000	1000586	0.0500	0.0421	
						RPD = 7.76	
17 alpha-Chlordane							
1	4.733	4.733	0.000	1355136	0.0500	0.0375	
2	5.570	5.573	-0.003	922268	0.0500	0.0431	
						RPD = 13.97	
18 4,4'-DDE							
1	4.817	4.817	0.000	1500662	0.0500	0.0423	
2	5.730	5.733	-0.003	1011874	0.0500	0.0453	
						RPD = 7.01	
19 Endosulfan I							
1	4.873	4.873	0.000	1005110	0.0500	0.0332	
2	5.637	5.637	0.000	665146	0.0500	0.0344	
						RPD = 3.51	
21 Dieldrin							
1	5.117	5.120	-0.003	1569040	0.0500	0.0462	
2	5.923	5.927	-0.004	1071598	0.0500	0.0475	
						RPD = 2.91	
23 Endrin							
1	5.357	5.357	0.000	1493496	0.0500	0.0462	
2	6.243	6.247	-0.004	948702	0.0500	0.0457	
						RPD = 0.96	
24 4,4'-DDD							
1	5.433	5.433	0.000	1289798	0.0500	0.0448	
2	6.333	6.337	-0.004	854142	0.0500	0.0492	
						RPD = 9.38	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
27 Endosulfan II							
1	5.587	5.587	0.000	1056850	0.0500	0.0369	
2	6.460	6.463	-0.003	691096	0.0500	0.0383	
						RPD = 3.89	
28 4,4'-DDT							
1	5.723	5.723	0.000	1502871	0.0500	0.0487	
2	6.660	6.663	-0.003	886565	0.0500	0.0508	
						RPD = 4.21	
29 Endrin aldehyde							
1	6.020	6.020	0.000	926227	0.0500	0.0400	
2	6.807	6.807	0.000	695544	0.0500	0.0500	
						RPD = 22.23	
30 Methoxychlor							
1	6.230	6.233	-0.003	685105	0.0500	0.0510	
2	7.347	7.350	-0.003	653100	0.0500	0.0828	
						RPD = 47.59	
32 Endosulfan sulfate							
1	6.467	6.467	0.000	1685405	0.0500	0.0653	
2	7.090	7.093	-0.003	775890	0.0500	0.0493	
						RPD = 27.88	
33 Endrin ketone							
1	6.750	6.750	0.000	1477547	0.0500	0.0492	
2	7.640	7.643	-0.003	869124	0.0500	0.0489	
						RPD = 0.56	
$ 34 DCB Decachlorobiphenyl							
1	7.780	7.780	0.000	476449	0.0200	0.0199	
2	8.840	8.843	-0.003	294541	0.0200	0.0224	
						RPD = 11.61	
S 1 BHC, Total							
1						0.1598	
2						0.1626	
						RPD = 1.74	

Reagents:

COPPER_00067	Amount Added: 1.00	Units: Packet	Run Reagent
1-Br2nit 50ng_00008	Amount Added: 10.00	Units: uL	Run Reagent

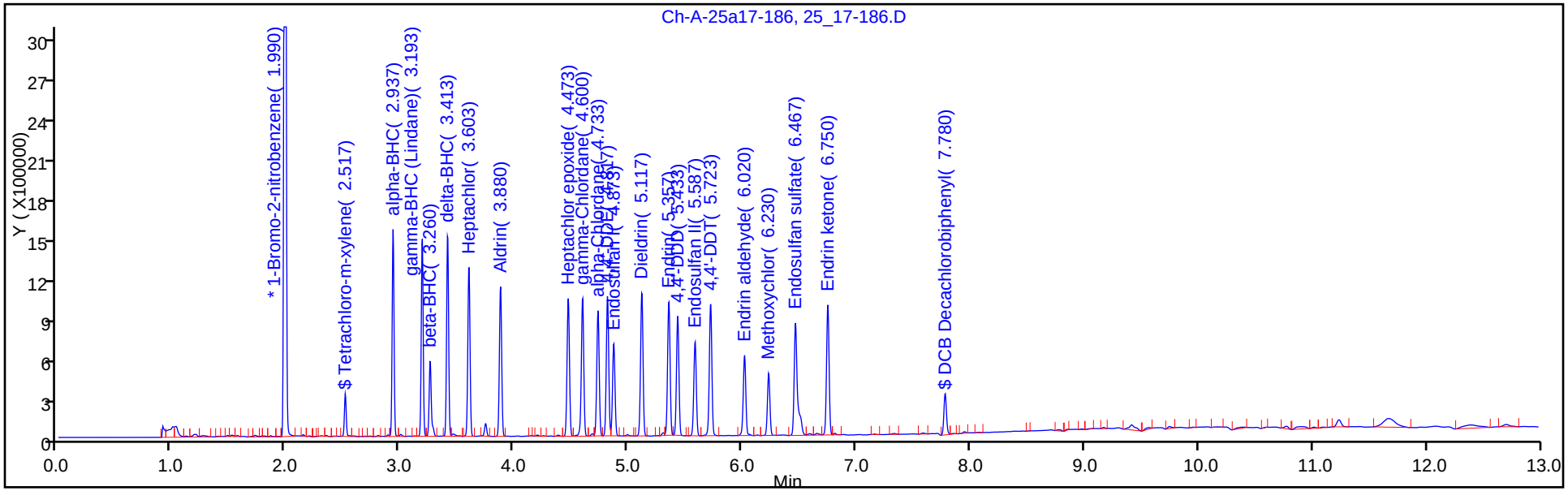
Report Date: 24-Jul-2017 07:46:38 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

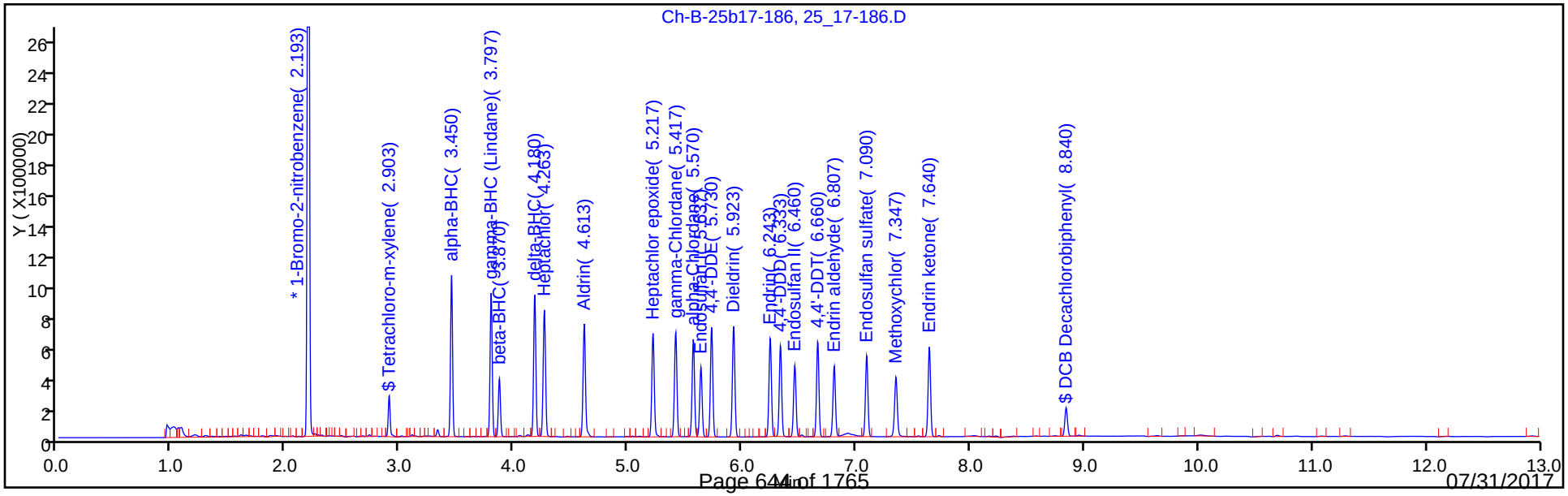
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Injection Date:	22-Jul-2017 12:26:43	Instrument ID:	HP6890-25	Operator ID:	BufTCHROM
Lims ID:	480-121321-B-4-E MSD			Worklist Smp#:	14
Client ID:	TP-04				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IS-8081	Limit Group:	GC - 8081B IS ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
PESTICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121321-1

SDG No.:

Client Sample ID: TP-04 MSD | Lab Sample ID: 480-121321-4 MSD

Matrix: Solid | Lab File ID: 25_17-186.D

Analysis Method: 8081B | Date Collected: 07/19/2017 13:00

Extraction Method: 3550C | Date Extracted: 07/21/2017 06:42

Sample wt/vol: 30.47(g) | Date Analyzed: 07/22/2017 12:26

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RTX-CLPII ID: 0.53(mm)

% Moisture: 17.9 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 368232 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
72-54-8	4,4'-DDD	19.7		2.0	0.39
72-55-9	4,4'-DDE	18.1		2.0	0.42
50-29-3	4,4'-DDT	20.3		2.0	0.47
309-00-2	Aldrin	16.3		2.0	0.49
319-84-6	alpha-BHC	15.3		2.0	0.36
5103-71-9	alpha-Chlordane	17.2		2.0	1.0
319-85-7	beta-BHC	16.1		2.0	0.36
319-86-8	delta-BHC	16.9		2.0	0.37
60-57-1	Dieldrin	19.0		2.0	0.48
959-98-8	Endosulfan I	13.7		2.0	0.38
33213-65-9	Endosulfan II	15.3		2.0	0.36
1031-07-8	Endosulfan sulfate	19.7		2.0	0.37
72-20-8	Endrin	18.3		2.0	0.40
7421-93-4	Endrin aldehyde	20.0		2.0	0.51
53494-70-5	Endrin ketone	19.6		2.0	0.49
58-89-9	gamma-BHC (Lindane)	16.7		2.0	0.37
5103-74-2	gamma-Chlordane	16.8		2.0	0.64
76-44-8	Heptachlor	17.7		2.0	0.43
1024-57-3	Heptachlor epoxide	18.2		2.0	0.52
72-43-5	Methoxychlor	33.1		2.0	0.41
8001-35-2	Toxaphene	ND		20	12

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	112		45-120
877-09-8	Tetrachloro-m-xylene	77		30-124

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170722-64256.b\25_17-186.D
Lims ID: 480-121321-B-4-E MSD
Client ID: TP-04
Sample Type: MSD
Inject. Date: 22-Jul-2017 12:26:43 ALS Bottle#: 0 Worklist Smp#: 14
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, CN10839003
Operator ID: BufTCHROM Instrument ID: HP6890-25

Method: \\ChromNA\Buffalo\ChromData\HP6890-25\20170722-64256.b\IS-8081.m
Limit Group: GC - 8081B IS ICAL
Last Update: 24-Jul-2017 07:46:32 Calib Date: 20-Jul-2017 14:40:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\25_17-171.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK016

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 44 1-Bromo-2-nitrobenzene							
1	1.990	1.990	0.000	11674902	0.5000	0.5000	
2	2.193	2.193	0.000	8194838	0.5000	0.5000	
						RPD = 0.00	
$ 4 Tetrachloro-m-xylene							
1	2.517	2.517	0.000	351280	0.0200	0.0163	
2	2.903	2.903	0.000	314904	0.0200	0.0154	
						RPD = 6.21	
6 alpha-BHC							
1	2.937	2.937	0.000	1716513	0.0500	0.0351	
2	3.450	3.450	0.000	1272377	0.0500	0.0384	
						RPD = 9.01	
7 gamma-BHC (Lindane)							
1	3.193	3.190	0.003	1703086	0.0500	0.0391	
2	3.797	3.797	0.000	1189941	0.0500	0.0419	
						RPD = 6.85	
8 beta-BHC							
1	3.260	3.260	0.000	750755	0.0500	0.0437	
2	3.870	3.870	0.000	484743	0.0500	0.0402	
						RPD = 8.34	
9 delta-BHC							
1	3.413	3.417	-0.004	1811577	0.0500	0.0419	
2	4.180	4.180	0.000	1228233	0.0500	0.0422	
						RPD = 0.55	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
11 Heptachlor							
1	3.603	3.603	0.000	1670552	0.0500	0.0437	
2	4.263	4.267	-0.004	1169550	0.0500	0.0443	
						RPD = 1.36	
12 Aldrin							
1	3.880	3.880	0.000	1511587	0.0500	0.0387	
2	4.613	4.617	-0.004	1070594	0.0500	0.0409	
						RPD = 5.61	
14 Heptachlor epoxide							
1	4.473	4.473	0.000	1486100	0.0500	0.0447	
2	5.217	5.217	0.000	987500	0.0500	0.0455	
						RPD = 1.93	
16 gamma-Chlordane							
1	4.600	4.600	0.000	1498021	0.0500	0.0389	
2	5.417	5.417	0.000	1000586	0.0500	0.0421	
						RPD = 7.76	
17 alpha-Chlordane							
1	4.733	4.733	0.000	1355136	0.0500	0.0375	
2	5.570	5.573	-0.003	922268	0.0500	0.0431	
						RPD = 13.97	
18 4,4'-DDE							
1	4.817	4.817	0.000	1500662	0.0500	0.0423	
2	5.730	5.733	-0.003	1011874	0.0500	0.0453	
						RPD = 7.01	
19 Endosulfan I							
1	4.873	4.873	0.000	1005110	0.0500	0.0332	
2	5.637	5.637	0.000	665146	0.0500	0.0344	
						RPD = 3.51	
21 Dieldrin							
1	5.117	5.120	-0.003	1569040	0.0500	0.0462	
2	5.923	5.927	-0.004	1071598	0.0500	0.0475	
						RPD = 2.91	
23 Endrin							
1	5.357	5.357	0.000	1493496	0.0500	0.0462	
2	6.243	6.247	-0.004	948702	0.0500	0.0457	
						RPD = 0.96	
24 4,4'-DDD							
1	5.433	5.433	0.000	1289798	0.0500	0.0448	
2	6.333	6.337	-0.004	854142	0.0500	0.0492	
						RPD = 9.38	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
27 Endosulfan II							
1	5.587	5.587	0.000	1056850	0.0500	0.0369	
2	6.460	6.463	-0.003	691096	0.0500	0.0383	
						RPD = 3.89	
28 4,4'-DDT							
1	5.723	5.723	0.000	1502871	0.0500	0.0487	
2	6.660	6.663	-0.003	886565	0.0500	0.0508	
						RPD = 4.21	
29 Endrin aldehyde							
1	6.020	6.020	0.000	926227	0.0500	0.0400	
2	6.807	6.807	0.000	695544	0.0500	0.0500	
						RPD = 22.23	
30 Methoxychlor							
1	6.230	6.233	-0.003	685105	0.0500	0.0510	
2	7.347	7.350	-0.003	653100	0.0500	0.0828	
						RPD = 47.59	
32 Endosulfan sulfate							
1	6.467	6.467	0.000	1685405	0.0500	0.0653	
2	7.090	7.093	-0.003	775890	0.0500	0.0493	
						RPD = 27.88	
33 Endrin ketone							
1	6.750	6.750	0.000	1477547	0.0500	0.0492	
2	7.640	7.643	-0.003	869124	0.0500	0.0489	
						RPD = 0.56	
$ 34 DCB Decachlorobiphenyl							
1	7.780	7.780	0.000	476449	0.0200	0.0199	
2	8.840	8.843	-0.003	294541	0.0200	0.0224	
						RPD = 11.61	
S 1 BHC, Total							
1						0.1598	
2						0.1626	
						RPD = 1.74	

Reagents:

COPPER_00067	Amount Added: 1.00	Units: Packet	Run Reagent
1-Br2nit 50ng_00008	Amount Added: 10.00	Units: uL	Run Reagent

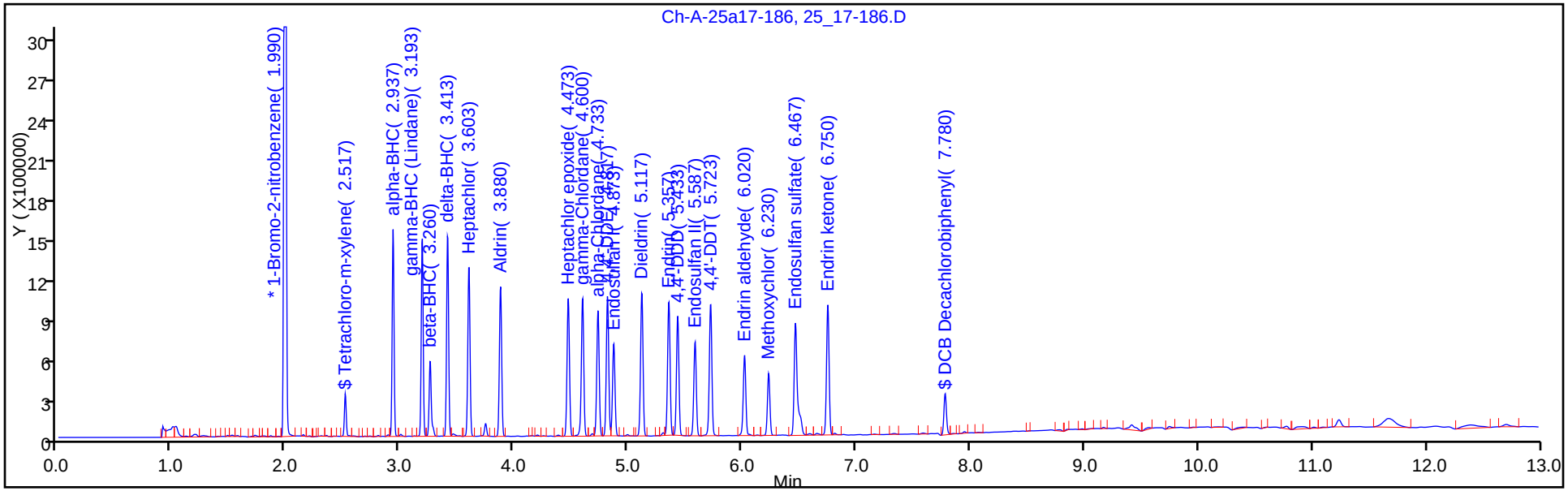
Report Date: 24-Jul-2017 07:46:38 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

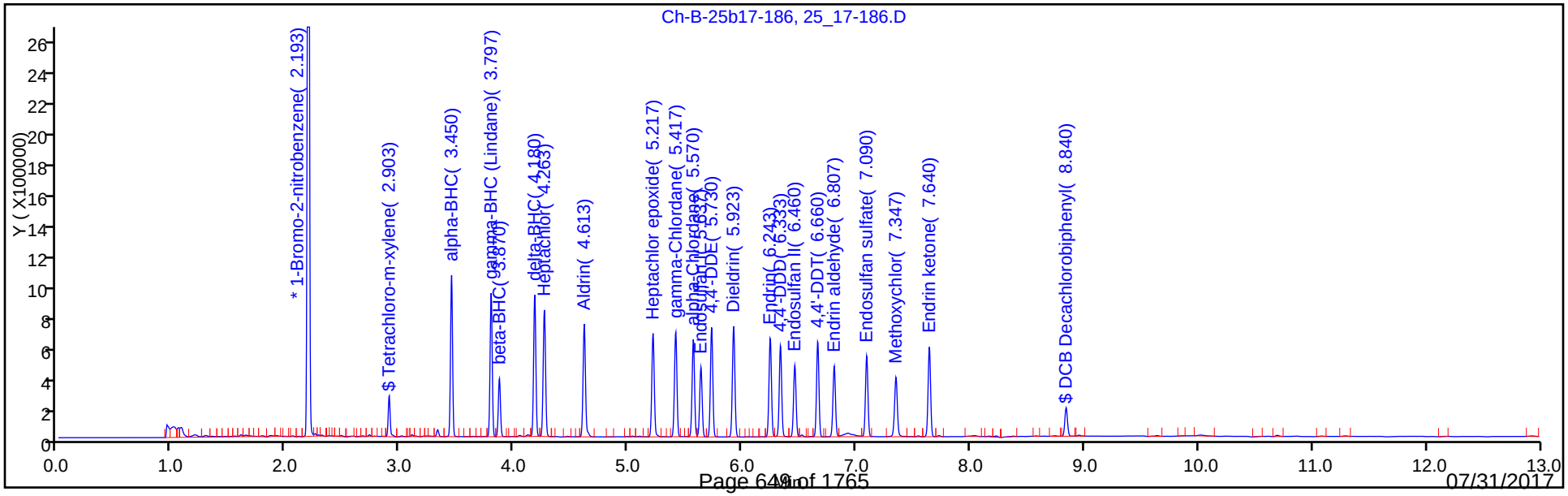
Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170722-64256.b\25_17-186.D

Injection Date:	22-Jul-2017 12:26:43	Instrument ID:	HP6890-25	Operator ID:	BufTCHROM
Lims ID:	480-121321-B-4-E MSD			Worklist Smp#:	14
Client ID:	TP-04				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IS-8081	Limit Group:	GC - 8081B IS ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



PESTICIDES ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1

SDG No.:

Instrument ID: HP6890-25 Start Date: 04/13/2017 10:23

Analysis Batch Number: 351826 End Date: 04/13/2017 18:14

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
STD1 480-351826/4 IC		04/13/2017 10:23	1		RTX-CLPI 0.53(mm)
STD1 480-351826/4 IC		04/13/2017 10:23	1		RTX-CLPII 0.53(mm)
STD2 480-351826/5 IC		04/13/2017 10:42	1		RTX-CLPI 0.53(mm)
STD2 480-351826/5 IC		04/13/2017 10:42	1		RTX-CLPII 0.53(mm)
STD3 480-351826/6 ICIS		04/13/2017 11:02	1		RTX-CLPI 0.53(mm)
STD3 480-351826/6 ICIS		04/13/2017 11:02	1		RTX-CLPII 0.53(mm)
STD4 480-351826/9 IC		04/13/2017 11:22	1		RTX-CLPI 0.53(mm)
STD4 480-351826/9 IC		04/13/2017 11:22	1		RTX-CLPII 0.53(mm)
STD5 480-351826/10 IC		04/13/2017 11:41	1		RTX-CLPI 0.53(mm)
STD5 480-351826/10 IC		04/13/2017 11:41	1		RTX-CLPII 0.53(mm)
STD1 480-351826/12 IC		04/13/2017 12:21	1		RTX-CLPI 0.53(mm)
STD1 480-351826/12 IC		04/13/2017 12:21	1		RTX-CLPII 0.53(mm)
STD2 480-351826/13 IC		04/13/2017 12:40	1		RTX-CLPI 0.53(mm)
STD2 480-351826/13 IC		04/13/2017 12:40	1		RTX-CLPII 0.53(mm)
STD3 480-351826/14 IC		04/13/2017 13:00	1		RTX-CLPI 0.53(mm)
STD3 480-351826/14 IC		04/13/2017 13:00	1		RTX-CLPII 0.53(mm)
STD4 480-351826/15 IC		04/13/2017 13:19	1		RTX-CLPI 0.53(mm)
STD4 480-351826/15 IC		04/13/2017 13:19	1		RTX-CLPII 0.53(mm)
STD5 480-351826/16 IC		04/13/2017 13:39	1		RTX-CLPI 0.53(mm)
STD5 480-351826/16 IC		04/13/2017 13:39	1		RTX-CLPII 0.53(mm)
ICV 480-351826/17		04/13/2017 13:59	1		RTX-CLPI 0.53(mm)
ICV 480-351826/17		04/13/2017 13:59	1		RTX-CLPII 0.53(mm)
STD1 480-351826/18 IC		04/13/2017 14:18	1	25_13-158.D	RTX-CLPI 0.53(mm)
STD1 480-351826/18 IC		04/13/2017 14:18	1	25_13-158.D	RTX-CLPII 0.53(mm)
STD2 480-351826/19 IC		04/13/2017 14:38	1	25_13-159.D	RTX-CLPI 0.53(mm)
STD2 480-351826/19 IC		04/13/2017 14:38	1	25_13-159.D	RTX-CLPII 0.53(mm)
STD3 480-351826/20 IC		04/13/2017 14:58	1	25_13-160.D	RTX-CLPI 0.53(mm)
STD3 480-351826/20 IC		04/13/2017 14:58	1	25_13-160.D	RTX-CLPII 0.53(mm)
STD4 480-351826/21 IC		04/13/2017 15:17	1	25_13-161.D	RTX-CLPI 0.53(mm)
STD4 480-351826/21 IC		04/13/2017 15:17	1	25_13-161.D	RTX-CLPII 0.53(mm)
STD5 480-351826/22 IC		04/13/2017 15:37	1	25_13-162.D	RTX-CLPI 0.53(mm)
STD5 480-351826/22 IC		04/13/2017 15:37	1	25_13-162.D	RTX-CLPII 0.53(mm)
ICV 480-351826/23		04/13/2017 15:56	1		RTX-CLPI 0.53(mm)
ICV 480-351826/23		04/13/2017 15:56	1		RTX-CLPII 0.53(mm)

PESTICIDES ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1

SDG No.:

Instrument ID: HP6890-25 Start Date: 04/13/2017 10:23

Analysis Batch Number: 351826 End Date: 04/13/2017 18:14

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
STD1 480-351826/24 IC		04/13/2017 16:16	1		RTX-CLPI 0.53(mm)
STD1 480-351826/24 IC		04/13/2017 16:16	1		RTX-CLPII 0.53(mm)
STD2 480-351826/25 IC		04/13/2017 16:36	1		RTX-CLPI 0.53(mm)
STD2 480-351826/25 IC		04/13/2017 16:36	1		RTX-CLPII 0.53(mm)
STD3 480-351826/26 IC		04/13/2017 16:56	1		RTX-CLPI 0.53(mm)
STD3 480-351826/26 IC		04/13/2017 16:56	1		RTX-CLPII 0.53(mm)
STD4 480-351826/27 IC		04/13/2017 17:15	1		RTX-CLPI 0.53(mm)
STD4 480-351826/27 IC		04/13/2017 17:15	1		RTX-CLPII 0.53(mm)
STD5 480-351826/28 IC		04/13/2017 17:35	1		RTX-CLPI 0.53(mm)
STD5 480-351826/28 IC		04/13/2017 17:35	1		RTX-CLPII 0.53(mm)
ICV 480-351826/29		04/13/2017 17:54	1		RTX-CLPI 0.53(mm)
ICV 480-351826/29		04/13/2017 17:54	1		RTX-CLPII 0.53(mm)
ICV 480-351826/30		04/13/2017 18:14	1		RTX-CLPI 0.53(mm)
ICV 480-351826/30		04/13/2017 18:14	1		RTX-CLPII 0.53(mm)

PESTICIDES ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1

SDG No.:

Instrument ID: HP6890-25 Start Date: 07/20/2017 11:23

Analysis Batch Number: 367911 End Date: 07/20/2017 15:00

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
STD1 480-367911/36 IC		07/20/2017 11:23	1	25_17-161.D	RTX-CLPI 0.53(mm)
STD1 480-367911/36 IC		07/20/2017 11:23	1	25_17-161.D	RTX-CLPII 0.53(mm)
STD2 480-367911/37 IC		07/20/2017 11:43	1	25_17-162.D	RTX-CLPI 0.53(mm)
STD2 480-367911/37 IC		07/20/2017 11:43	1	25_17-162.D	RTX-CLPII 0.53(mm)
STD3 480-367911/38 ICIS		07/20/2017 12:03	1	25_17-163.D	RTX-CLPI 0.53(mm)
STD3 480-367911/38 ICIS		07/20/2017 12:03	1	25_17-163.D	RTX-CLPII 0.53(mm)
STD4 480-367911/39 IC		07/20/2017 12:22	1	25_17-164.D	RTX-CLPI 0.53(mm)
STD4 480-367911/39 IC		07/20/2017 12:22	1	25_17-164.D	RTX-CLPII 0.53(mm)
STD5 480-367911/40 IC		07/20/2017 12:42	1	25_17-165.D	RTX-CLPI 0.53(mm)
STD5 480-367911/40 IC		07/20/2017 12:42	1	25_17-165.D	RTX-CLPII 0.53(mm)
ICV 480-367911/41		07/20/2017 13:02	1		RTX-CLPI 0.53(mm)
ICV 480-367911/41		07/20/2017 13:02	1		RTX-CLPII 0.53(mm)
STD1 480-367911/42 IC		07/20/2017 13:21	1		RTX-CLPI 0.53(mm)
STD1 480-367911/42 IC		07/20/2017 13:21	1		RTX-CLPII 0.53(mm)
STD2 480-367911/43 IC		07/20/2017 13:41	1		RTX-CLPI 0.53(mm)
STD2 480-367911/43 IC		07/20/2017 13:41	1		RTX-CLPII 0.53(mm)
STD3 480-367911/44 IC		07/20/2017 14:01	1		RTX-CLPI 0.53(mm)
STD3 480-367911/44 IC		07/20/2017 14:01	1		RTX-CLPII 0.53(mm)
STD4 480-367911/45 IC		07/20/2017 14:20	1		RTX-CLPI 0.53(mm)
STD4 480-367911/45 IC		07/20/2017 14:20	1		RTX-CLPII 0.53(mm)
STD5 480-367911/46 IC		07/20/2017 14:40	1		RTX-CLPI 0.53(mm)
STD5 480-367911/46 IC		07/20/2017 14:40	1		RTX-CLPII 0.53(mm)
ICV 480-367911/47		07/20/2017 15:00	1		RTX-CLPI 0.53(mm)
ICV 480-367911/47		07/20/2017 15:00	1		RTX-CLPII 0.53(mm)

PESTICIDES ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1

SDG No.:

Instrument ID: HP6890-25 Start Date: 07/22/2017 09:49

Analysis Batch Number: 368232 End Date: 07/22/2017 18:40

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
PEM 480-368232/6		07/22/2017 09:49	1	25_17-178.D	RTX-CLPI 0.53(mm)
PEM 480-368232/6		07/22/2017 09:49	1	25_17-178.D	RTX-CLPII 0.53(mm)
CCVIS 480-368232/7		07/22/2017 10:08	1	25_17-179.D	RTX-CLPI 0.53(mm)
CCVIS 480-368232/7		07/22/2017 10:08	1	25_17-179.D	RTX-CLPII 0.53(mm)
CCV 480-368232/8		07/22/2017 10:28	1		RTX-CLPI 0.53(mm)
CCV 480-368232/8		07/22/2017 10:28	1		RTX-CLPII 0.53(mm)
CCV 480-368232/9		07/22/2017 10:48	1	25_17-181.D	RTX-CLPI 0.53(mm)
CCV 480-368232/9		07/22/2017 10:48	1	25_17-181.D	RTX-CLPII 0.53(mm)
CCV 480-368232/10		07/22/2017 11:07	1		RTX-CLPI 0.53(mm)
CCV 480-368232/10		07/22/2017 11:07	1		RTX-CLPII 0.53(mm)
MB 480-368029/1-A		07/22/2017 11:27	1	25_17-183.D	RTX-CLPI 0.53(mm)
MB 480-368029/1-A		07/22/2017 11:27	1	25_17-183.D	RTX-CLPII 0.53(mm)
LCS 480-368029/2-A		07/22/2017 11:47	1	25_17-184.D	RTX-CLPI 0.53(mm)
LCS 480-368029/2-A		07/22/2017 11:47	1	25_17-184.D	RTX-CLPII 0.53(mm)
480-121321-4 MS		07/22/2017 12:07	1	25_17-185.D	RTX-CLPI 0.53(mm)
480-121321-4 MS		07/22/2017 12:07	1	25_17-185.D	RTX-CLPII 0.53(mm)
480-121321-4 MSD		07/22/2017 12:26	1	25_17-186.D	RTX-CLPI 0.53(mm)
480-121321-4 MSD		07/22/2017 12:26	1	25_17-186.D	RTX-CLPII 0.53(mm)
ZZZZZ		07/22/2017 12:46	1		RTX-CLPI 0.53(mm)
ZZZZZ		07/22/2017 12:46	1		RTX-CLPII 0.53(mm)
ZZZZZ		07/22/2017 13:06	1		RTX-CLPI 0.53(mm)
ZZZZZ		07/22/2017 13:06	1		RTX-CLPII 0.53(mm)
480-121321-4		07/22/2017 13:25	1	25_17-189.D	RTX-CLPI 0.53(mm)
480-121321-4		07/22/2017 13:25	1	25_17-189.D	RTX-CLPII 0.53(mm)
480-121321-1		07/22/2017 13:45	1	25_17-190.D	RTX-CLPI 0.53(mm)
480-121321-1		07/22/2017 13:45	1	25_17-190.D	RTX-CLPII 0.53(mm)
480-121321-2		07/22/2017 14:04	1	25_17-191.D	RTX-CLPI 0.53(mm)
480-121321-2		07/22/2017 14:04	1	25_17-191.D	RTX-CLPII 0.53(mm)
480-121321-3		07/22/2017 14:24	20	25_17-192.D	RTX-CLPI 0.53(mm)
480-121321-3		07/22/2017 14:24	20	25_17-192.D	RTX-CLPII 0.53(mm)
480-121321-5		07/22/2017 14:44	1	25_17-193.D	RTX-CLPI 0.53(mm)
480-121321-5		07/22/2017 14:44	1	25_17-193.D	RTX-CLPII 0.53(mm)
480-121321-6		07/22/2017 15:03	1	25_17-194.D	RTX-CLPI 0.53(mm)
480-121321-6		07/22/2017 15:03	1	25_17-194.D	RTX-CLPII 0.53(mm)
ZZZZZ		07/22/2017 15:23	1		RTX-CLPI 0.53(mm)
ZZZZZ		07/22/2017 15:23	1		RTX-CLPII 0.53(mm)
ZZZZZ		07/22/2017 15:43	1		RTX-CLPI 0.53(mm)
ZZZZZ		07/22/2017 15:43	1		RTX-CLPII 0.53(mm)
ZZZZZ		07/22/2017 16:03	1		RTX-CLPI 0.53(mm)
ZZZZZ		07/22/2017 16:03	1		RTX-CLPII 0.53(mm)
ZZZZZ		07/22/2017 16:22	1		RTX-CLPI 0.53(mm)
ZZZZZ		07/22/2017 16:22	1		RTX-CLPII 0.53(mm)
ZZZZZ		07/22/2017 16:42	1		RTX-CLPI 0.53(mm)
ZZZZZ		07/22/2017 16:42	1		RTX-CLPII 0.53(mm)
ZZZZZ		07/22/2017 17:01	1		RTX-CLPI 0.53(mm)

PESTICIDES ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1

SDG No.:

Instrument ID: HP6890-25 Start Date: 07/22/2017 09:49

Analysis Batch Number: 368232 End Date: 07/22/2017 18:40

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		07/22/2017 17:01	1		RTX-CLPII 0.53(mm)
ZZZZZ		07/22/2017 17:21	1		RTX-CLPI 0.53(mm)
ZZZZZ		07/22/2017 17:21	1		RTX-CLPII 0.53(mm)
ZZZZZ		07/22/2017 17:41	1		RTX-CLPI 0.53(mm)
ZZZZZ		07/22/2017 17:41	1		RTX-CLPII 0.53(mm)
PEM 480-368232/31		07/22/2017 18:00	1		RTX-CLPI 0.53(mm)
PEM 480-368232/31		07/22/2017 18:00	1		RTX-CLPII 0.53(mm)
CCV 480-368232/32		07/22/2017 18:20	1		RTX-CLPI 0.53(mm)
CCV 480-368232/32		07/22/2017 18:20	1		RTX-CLPII 0.53(mm)
ZZZZZ		07/22/2017 18:40	1		RTX-CLPI 0.53(mm)
ZZZZZ		07/22/2017 18:40	1		RTX-CLPII 0.53(mm)

PESTICIDES BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1

SDG No.:

Batch Number: 368029 Batch Start Date: 07/21/17 06:41 Batch Analyst: Myers, Carmela A

Batch Method: 3550C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	CalcMsg	InitialAmount	FinalAmount	O_8081/82surr 00100	O8081pestspik 00036	AnalysisComment
MB 480-368029/1		3550C, 8081B		CALC NOT SET TO RUN	30.81 g	10 mL	1 mL		FLORISIL
LCS 480-368029/2		3550C, 8081B		CALC NOT SET TO RUN	30.75 g	10 mL	1 mL	1 mL	FLORISIL
480-121321-B-4 MS	TP-04	3550C, 8081B	T	CALC NOT SET TO RUN	30.07 g	10 mL	1 mL	1 mL	Clay/Sand
480-121321-B-4 MSD	TP-04	3550C, 8081B	T	CALC NOT SET TO RUN	30.47 g	10 mL	1 mL	1 mL	Clay/Sand
480-121321-A-4	TP-04	3550C, 8081B	T	CALC NOT SET TO RUN	30.42 g	10 mL	1 mL		Clay/Sand
480-121321-A-1	TP-01	3550C, 8081B	T	CALC NOT SET TO RUN	30.44 g	10 mL	1 mL		Clay- FLORISIL
480-121321-A-2	TP-03	3550C, 8081B	T	CALC NOT SET TO RUN	30.55 g	10 mL	1 mL		Clay
480-121321-A-3	TP-18	3550C, 8081B	T	CALC NOT SET TO RUN	30.34 g	10 mL	1 mL		Clay- FLORISIL
480-121321-B-5	TP-05	3550C, 8081B	T	CALC NOT SET TO RUN	30.86 g	10 mL	1 mL		Clay/Sand
480-121321-B-6	DUP	3550C, 8081B	T	CALC NOT SET TO RUN	30.32 g	10 mL	1 mL		Clay/Sand

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.

PESTICIDES BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1

SDG No.:

Batch Number: 368029 Batch Start Date: 07/21/17 06:41 Batch Analyst: Myers, Carmela A

Batch Method: 3550C Batch End Date:

Batch Notes	
Balance ID	Balance 5
Batch Comment	Filter paper lot # 9802837
Blank Soil Lot Number	3934401
Analyst ID - Concentration	CM, BK
Analyst ID - Clean Up	CM 7/21/17
Florisil ID	3650757
Na2SO4 ID	3934400
Nominal Amount Used	30 g
Prep Solvent ID	4123568/4149295
Prep Solvent Name	Hexane/Acetone
Prep Solvent Volume Used	300 mL
Person's name who did the prep	BK
Analyst ID - Reagent Drop Witness	CM
Analyst ID - Reagent Drop	CM
Perform Calculation (0=No, 1=Yes)	0
Vial ID	J27378

Basis	Basis Description
T	Total/NA

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

Method 8082A

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

FORM II
PCBS SURROGATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1

SDG No.:

Matrix: Solid Level: Low

GC Column (1): ZB-35 ID: 0.53(mm) GC Column (2): ZB-5 ID: 0.53(mm)

Client Sample ID	Lab Sample ID	TCX1 #	TCX2 #	DCBP1 #	DCBP2 #
TP-01	480-121321-1	125	137	112	115
TP-03	480-121321-2	147	142	126	134
TP-18	480-121321-3	133	144	119	125
TP-04	480-121321-4	149	144	134	140
TP-05	480-121321-5	126	141	115	125
DUP	480-121321-6	130	142	114	120
	MB 480-367916/1-A	147	139	138	146
	LCS 480-367916/2-A	144	154	133	145
TP-04 MS	480-121321-4 MS	142	150	131	137
TP-04 MSD	480-121321-4 MSD	138	170 X	125	133

	QC LIMITS
TCX = Tetrachloro-m-xylene	60-154
DCBP = DCB Decachlorobiphenyl	65-174

Column to be used to flag recovery values

FORM II 8082A

FORM III
PCBS LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: 12_394m_258.D

Lab ID: LCS 480-367916/2-A Client ID:

COMPOUND	SPIKE ADDED (mg/Kg)	LCS CONCENTRATION (mg/Kg)	LCS % REC	QC LIMITS REC	#
PCB-1016	1.73	2.30	133	51-185	
PCB-1260	1.73	2.77	160	61-184	

Column to be used to flag recovery and RPD values

FORM III 8082A

FORM III
PCBS MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: 12_394m_259.D

Lab ID: 480-121321-4 MS Client ID: TP-04 MS

COMPOUND	SPIKE ADDED (mg/Kg)	SAMPLE CONCENTRATION (mg/Kg)	MS CONCENTRATION (mg/Kg)	MS % REC	QC LIMITS REC	#
PCB-1016	2.64	ND	3.72	141	50-177	
PCB-1260	2.64	ND	4.08	155	33-200	

Column to be used to flag recovery and RPD values

FORM III 8082A

FORM III
PCBS MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: 12_394m_260.D

Lab ID: 480-121321-4 MSD Client ID: TP-04 MSD

COMPOUND	SPIKE ADDED (mg/Kg)	MSD CONCENTRATION (mg/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
PCB-1016	2.14	3.05	142	20	50	50-177	
PCB-1260	2.14	3.19	149	25	50	33-200	

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.: 480-121321-1

SDG No.:

Lab Sample ID: MB 480-367916/1-A

Matrix: Solid Date Extracted: 07/20/2017 10:58

Lab File ID:(1) 12_394m_257.D Lab File ID:(2) 12_394m_257.D

Date Analyzed:(1) 07/20/2017 17:41 Date Analyzed:(2) 07/20/2017 17:41

Instrument ID:(1) HP5890-12 Instrument ID:(2) HP5890-12

GC Column:(1) ZB-35 ID: 0.53(mm) GC Column:(2) ZB-5 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 480-367916/2-A	07/20/2017 17:56	07/20/2017 17:56
TP-04 MS	480-121321-4 MS	07/20/2017 18:12	07/20/2017 18:12
TP-04 MSD	480-121321-4 MSD	07/20/2017 18:27	07/20/2017 18:27
TP-04	480-121321-4	07/20/2017 18:43	07/20/2017 18:43
TP-01	480-121321-1	07/20/2017 18:58	07/20/2017 18:58
TP-03	480-121321-2	07/20/2017 19:13	07/20/2017 19:13
TP-18	480-121321-3	07/20/2017 19:29	07/20/2017 19:29
TP-05	480-121321-5	07/20/2017 19:44	07/20/2017 19:44
DUP	480-121321-6	07/20/2017 19:59	07/20/2017 19:59

FORM VIII
PCBS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1

SDG No.:

Sample No.: ICIS 480-356902/19 Date Analyzed: 05/11/2017 16:17

Instrument ID: HP5890-12 GC Column: ZB-5 ID: 0.53(mm)

Lab File ID (Standard): 12_390m_216.D Heated Purge: (Y/N) N

Calibration ID: 30527

		BNB					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		1242256	1.32				
UPPER LIMIT		2484512	1.37				
LOWER LIMIT		621128	1.27				
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCVIS 480-367887/4		1245198	1.26				

BNB = 1-Bromo-2-nitrobenzene

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.05 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8082A

FORM VIII
PCBS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1

SDG No.:

Sample No.: ICIS 480-356902/19 Date Analyzed: 05/11/2017 16:17

Instrument ID: HP5890-12 GC Column: ZB-35 ID: 0.53(mm)

Lab File ID (Standard): 12_390m_216.D Heated Purge: (Y/N) N

Calibration ID: 30528

		BNB					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		1109432	1.62				
UPPER LIMIT		2218864	1.67				
LOWER LIMIT		554716	1.57				
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCVIS 480-367887/4		1084909	1.55				

BNB = 1-Bromo-2-nitrobenzene

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.05 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8082A

FORM VIII
PCBS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1

SDG No.:

Sample No.: CCVIS 480-367887/4 Date Analyzed: 07/20/2017 10:25

Instrument ID: HP5890-12 GC Column: ZB-5 ID: 0.53(mm)

Lab File ID (Standard): 12_394m_243.D Heated Purge: (Y/N) N

Calibration ID: 30555

		BNB					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		1245198	1.26				
UPPER LIMIT		2490396	1.31				
LOWER LIMIT		622599	1.21				
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCV 480-367887/5		1238580	1.26				
CCV 480-367887/6		1150640	1.26				
CCV 480-367887/7		1257834	1.26				
CCV 480-367887/8		1306352	1.26				
MB 480-367916/1-A		989575	1.26				
LCS 480-367916/2-A		1069323	1.26				
480-121321-4 MS	TP-04 MS	1039076	1.26				
480-121321-4 MSD	TP-04 MSD	947520	1.26				
480-121321-4	TP-04	898811	1.26				
480-121321-1	TP-01	1097958	1.26				
480-121321-2	TP-03	927586	1.26				
480-121321-3	TP-18	1015439	1.26				
480-121321-5	TP-05	1057318	1.26				
480-121321-6	DUP	1036283	1.26				

BNB = 1-Bromo-2-nitrobenzene

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.05 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8082A

FORM VIII
PCBS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1

SDG No.:

Sample No.: CCVIS 480-367887/4 Date Analyzed: 07/20/2017 10:25

Instrument ID: HP5890-12 GC Column: ZB-35 ID: 0.53(mm)

Lab File ID (Standard): 12_394m_243.D Heated Purge: (Y/N) N

Calibration ID: 30556

		BNB					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		1084909	1.55				
UPPER LIMIT		2169818	1.60				
LOWER LIMIT		542455	1.50				
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCV 480-367887/5		1076971	1.55				
CCV 480-367887/6		1001496	1.55				
CCV 480-367887/7		1096631	1.55				
CCV 480-367887/8		1137637	1.55				
MB 480-367916/1-A		956292	1.55				
LCS 480-367916/2-A		1052360	1.55				
480-121321-4 MS	TP-04 MS	1017898	1.55				
480-121321-4 MSD	TP-04 MSD	922741	1.55				
480-121321-4	TP-04	878268	1.55				
480-121321-1	TP-01	1053013	1.55				
480-121321-2	TP-03	905069	1.55				
480-121321-3	TP-18	971732	1.55				
480-121321-5	TP-05	1037327	1.55				
480-121321-6	DUP	995546	1.55				

BNB = 1-Bromo-2-nitrobenzene

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.05 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8082A

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1

SDG No.:

Client Sample ID: TP-18 Lab Sample ID: 480-121321-3

Instrument ID (1): HP5890-12 Instrument ID (2): HP5890-12

Date Analyzed (1): 07/20/2017 19:29 Date Analyzed (2): 07/20/2017 19:29

GC Column (1): ZB-35 ID: 0.53(mm) GC Column (2): ZB-5 ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
PCB-1248	1	1	3.44	3.41	3.47	0.469	0.28	57.5
		2	3.64	3.61	3.67	0.346		
		3	3.88	3.85	3.91	0.297		
		4	3.93	3.90	3.96	0.241		
		5	4.13	4.10	4.16	0.0517		
	2	1	2.84	2.81	2.87	1.14	0.51	
		2	3.05	3.02	3.08	0.300		
		3	3.25	3.21	3.27	0.199		
		4	3.28	3.24	3.30	0.288		
		5	3.44	3.41	3.47	0.614		

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1

SDG No.:

Client Sample ID: TP-04 MS Lab Sample ID: 480-121321-4 MS

Instrument ID (1): HP5890-12 Instrument ID (2): HP5890-12

Date Analyzed (1): 07/20/2017 18:12 Date Analyzed (2): 07/20/2017 18:12

GC Column (1): ZB-35 ID: 0.53(mm) GC Column (2): ZB-5 ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
PCB-1016	1	1	2.53	2.50	2.56	4.08	4.08	9.1
		2	2.84	2.81	2.87	3.75		
		3	3.05	3.02	3.08	4.11		
		4	3.15	3.12	3.18	4.25		
		5	3.27	3.24	3.30	4.21		
	2	1	2.04	2.01	2.07	3.66	3.72	
		2	2.41	2.38	2.44	3.19		
		3	2.58	2.55	2.61	3.71		
		4	2.65	2.62	2.68	4.19		
		5	2.71	2.68	2.74	3.86		
PCB-1260	1	1	5.02	4.99	5.05	3.44	3.19	24.4
		2	5.34	5.31	5.37	3.18		
		3	5.41	5.38	5.44	3.26		
		4	5.47	5.44	5.50	3.06		
		5	5.83	5.80	5.86	3.02		
	2	1	4.08	4.04	4.10	4.41	4.08	
		2	4.29	4.26	4.32	4.20		
		3	4.42	4.38	4.44	4.24		
		4	4.60	4.57	4.63	3.85		
		5	5.03	5.00	5.06	3.70		

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1

SDG No.:

Client Sample ID: TP-04 MSD Lab Sample ID: 480-121321-4 MSD

Instrument ID (1): HP5890-12 Instrument ID (2): HP5890-12

Date Analyzed (1): 07/20/2017 18:27 Date Analyzed (2): 07/20/2017 18:27

GC Column (1): ZB-35 ID: 0.53(mm) GC Column (2): ZB-5 ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
PCB-1016	1	1	2.53	2.50	2.56	3.30	3.32	8.3
		2	2.84	2.81	2.87	3.01		
		3	3.05	3.02	3.08	3.31		
		4	3.15	3.12	3.18	3.53		
		5	3.27	3.24	3.30	3.44		
	2	1	2.04	2.01	2.07	3.02	3.05	
		2	2.41	2.38	2.44	2.58		
		3	2.58	2.55	2.61	2.97		
		4	2.65	2.62	2.68	3.31		
		5	2.71	2.68	2.74	3.40		
PCB-1260	1	1	5.02	4.99	5.05	2.70	2.61	20.1
		2	5.34	5.31	5.37	2.61		
		3	5.41	5.38	5.44	2.71		
		4	5.47	5.44	5.50	2.53		
		5	5.83	5.80	5.86	2.47		
	2	1	4.08	4.04	4.10	3.23	3.19	
		2	4.29	4.26	4.32	3.36		
		3	4.42	4.38	4.44	3.31		
		4	4.60	4.57	4.63	3.02		
		5	5.03	5.00	5.06	3.02		

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 480-367916/2-A

Instrument ID (1): HP5890-12 Instrument ID (2): HP5890-12

Date Analyzed (1): 07/20/2017 17:56 Date Analyzed (2): 07/20/2017 17:56

GC Column (1): ZB-35 ID: 0.53(mm) GC Column (2): ZB-5 ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
PCB-1016	1	1	2.53	2.50	2.56	2.77	2.82	20.2
		2	2.84	2.81	2.87	2.63		
		3	3.05	3.02	3.08	2.87		
		4	3.15	3.12	3.18	2.95		
		5	3.27	3.24	3.30	2.88		
	2	1	2.04	2.01	2.07	1.63	2.30	
		2	2.41	2.38	2.44	2.14		
		3	2.58	2.55	2.61	2.48		
		4	2.66	2.62	2.68	2.71		
		5	2.71	2.68	2.74	2.55		
PCB-1260	1	1	5.02	4.99	5.05	2.38	2.24	21.4
		2	5.34	5.31	5.37	2.20		
		3	5.41	5.38	5.44	2.26		
		4	5.47	5.44	5.50	2.17		
		5	5.83	5.80	5.86	2.17		
	2	1	4.08	4.04	4.10	2.80	2.77	
		2	4.29	4.26	4.32	2.91		
		3	4.42	4.38	4.44	2.88		
		4	4.60	4.57	4.63	2.61		
		5	5.03	5.00	5.06	2.66		

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121321-1

SDG No.:

Client Sample ID: TP-01 | Lab Sample ID: 480-121321-1

Matrix: Solid | Lab File ID: 12_394m_262.D

Analysis Method: 8082A | Date Collected: 07/19/2017 09:00

Extraction Method: 3550C | Date Extracted: 07/20/2017 10:58

Sample wt/vol: 2.36(g) | Date Analyzed: 07/20/2017 18:58

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-5 ID: 0.53(mm)

% Moisture: 20.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 367887 | 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
37324-23-5	PCB-1262	ND		0.27	0.12
11100-14-4	PCB-1268	ND		0.27	0.12

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	137		60-154
2051-24-3	DCB Decachlorobiphenyl	115		65-174

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170720-64197.b\12_394m_262.D
Lims ID: 480-121321-B-1-A
Client ID: TP-01
Sample Type: Client
Inject. Date: 20-Jul-2017 18:58:26 ALS Bottle#: 0 Worklist Smp#: 23
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP5890-12

Method: \\ChromNA\Buffalo\ChromData\HP5890-12\20170720-64197.b\5890-12 PCB IS.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 21-Jul-2017 10:30:21 Calib Date: 13-May-2017 13:35:27
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170513-62487.b\12_390m_257.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK010

First Level Reviewer: owenj Date: 21-Jul-2017 10:30:21

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene						
1	1.258	1.258	0.000	1097958	0.5000	
2	1.545	1.546	-0.001	1053013	0.5000	
					RPD = 0.00	
$ 6 Tetrachloro-m-xylene						
1	1.837	1.837	0.000	60686	0.0274	
2	2.123	2.125	-0.002	47374	0.0251	
					RPD = 8.71	
$ 15 DCB Decachlorobiphenyl						
1	6.041	6.041	0.000	66064	0.0229	
2	7.049	7.049	0.000	63460	0.0224	
					RPD = 2.09	

Reagents:

COPPER_00070	Amount Added: 1.00	Units: g	Run Reagent
PCB IS 1B2NB_00037	Amount Added: 10.00	Units: uL	Run Reagent

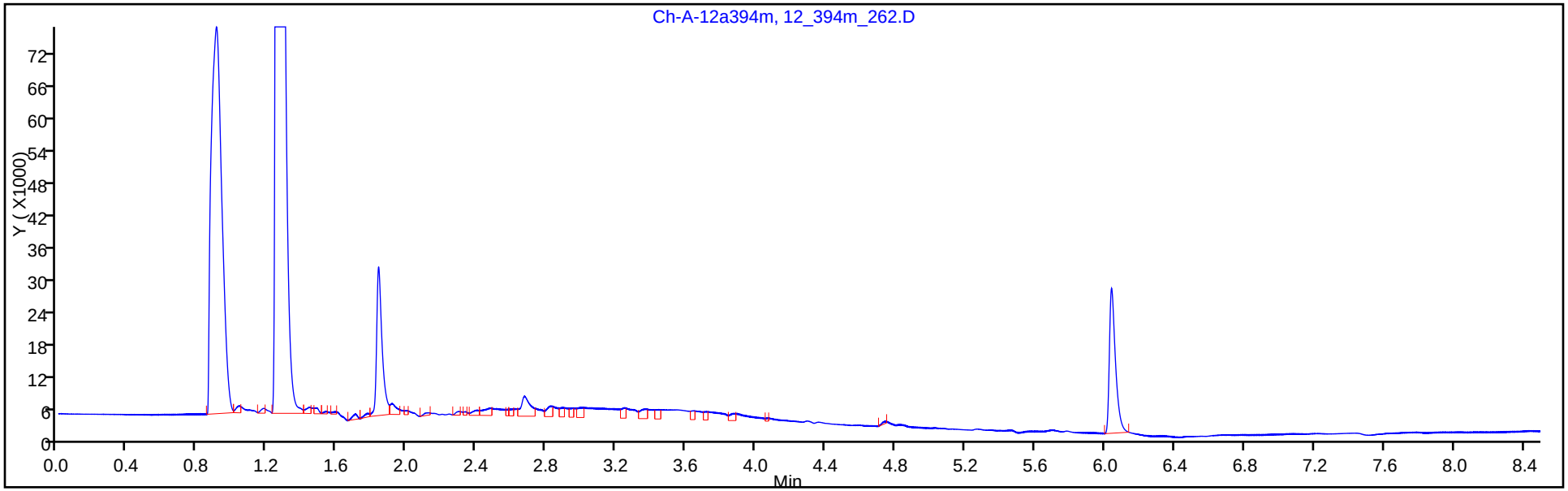
Report Date: 21-Jul-2017 10:30:22 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

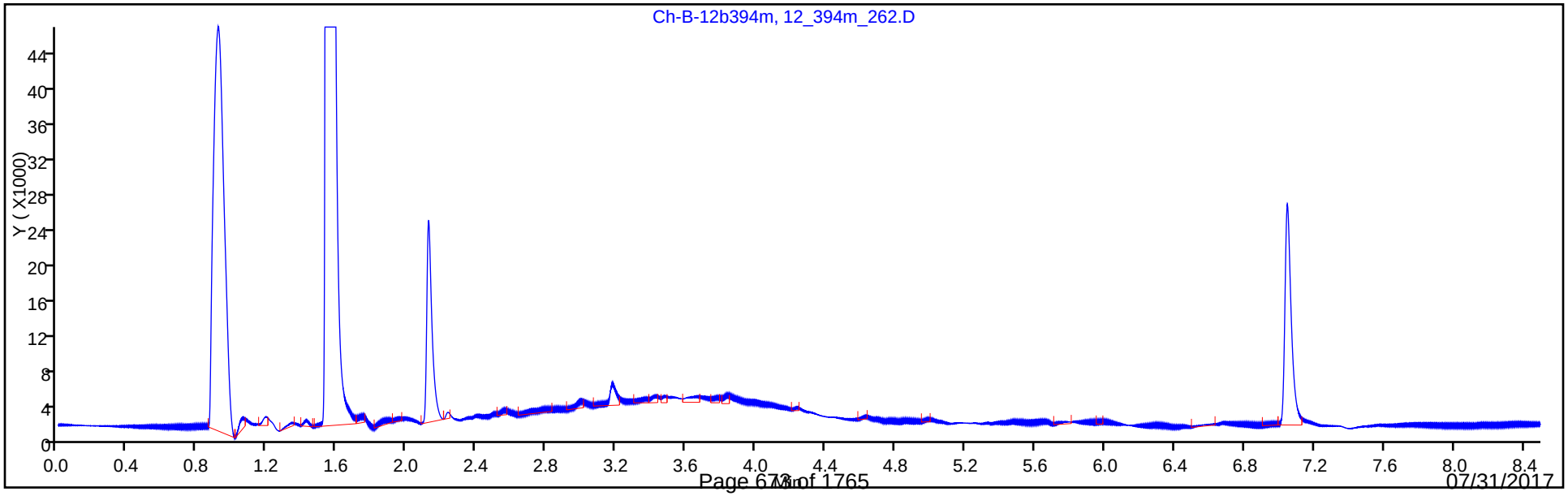
Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170720-64197.b\12_394m_262.D

Injection Date:	20-Jul-2017 18:58:26	Instrument ID:	HP5890-12	Operator ID:	BufTCHROM
Lims ID:	480-121321-B-1-A	Lab Sample ID:	480-121321-1	Worklist Smp#:	23
Client ID:	TP-01				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	5890-12 PCB IS	Limit Group:	GC - 8082A PCB IS ICAL		

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



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



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121321-1

SDG No.:

Client Sample ID: TP-01 | Lab Sample ID: 480-121321-1

Matrix: Solid | Lab File ID: 12_394m_262.D

Analysis Method: 8082A | Date Collected: 07/19/2017 09:00

Extraction Method: 3550C | Date Extracted: 07/20/2017 10:58

Sample wt/vol: 2.36(g) | Date Analyzed: 07/20/2017 18:58

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 20.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 367887 | Units: mg/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	125		60-154
2051-24-3	DCB Decachlorobiphenyl	112		65-174

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170720-64197.b\12_394m_262.D
Lims ID: 480-121321-B-1-A
Client ID: TP-01
Sample Type: Client
Inject. Date: 20-Jul-2017 18:58:26 ALS Bottle#: 0 Worklist Smp#: 23
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP5890-12

Method: \\ChromNA\Buffalo\ChromData\HP5890-12\20170720-64197.b\5890-12 PCB IS.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 21-Jul-2017 10:30:21 Calib Date: 13-May-2017 13:35:27
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170513-62487.b\12_390m_257.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK010

First Level Reviewer: owenj Date: 21-Jul-2017 10:30:21

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene						
1	1.258	1.258	0.000	1097958	0.5000	
2	1.545	1.546	-0.001	1053013	0.5000	
					RPD = 0.00	
$ 6 Tetrachloro-m-xylene						
1	1.837	1.837	0.000	60686	0.0274	
2	2.123	2.125	-0.002	47374	0.0251	
					RPD = 8.71	
$ 15 DCB Decachlorobiphenyl						
1	6.041	6.041	0.000	66064	0.0229	
2	7.049	7.049	0.000	63460	0.0224	
					RPD = 2.09	

Reagents:

COPPER_00070	Amount Added: 1.00	Units: g	Run Reagent
PCB IS 1B2NB_00037	Amount Added: 10.00	Units: uL	Run Reagent

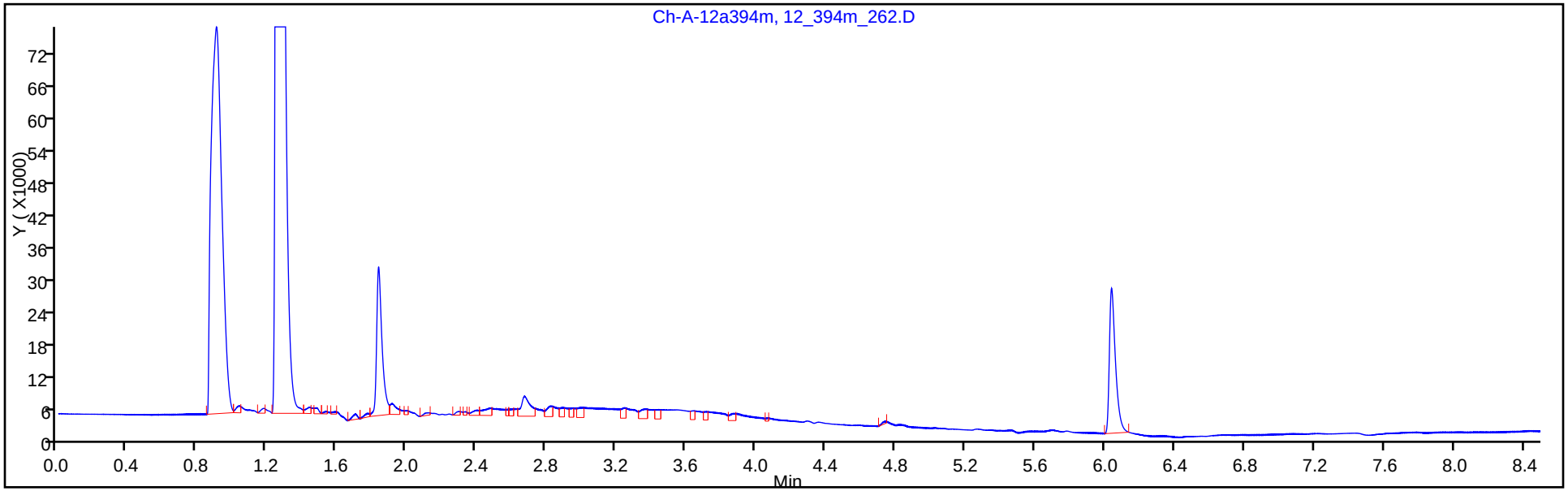
Report Date: 21-Jul-2017 10:30:22 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

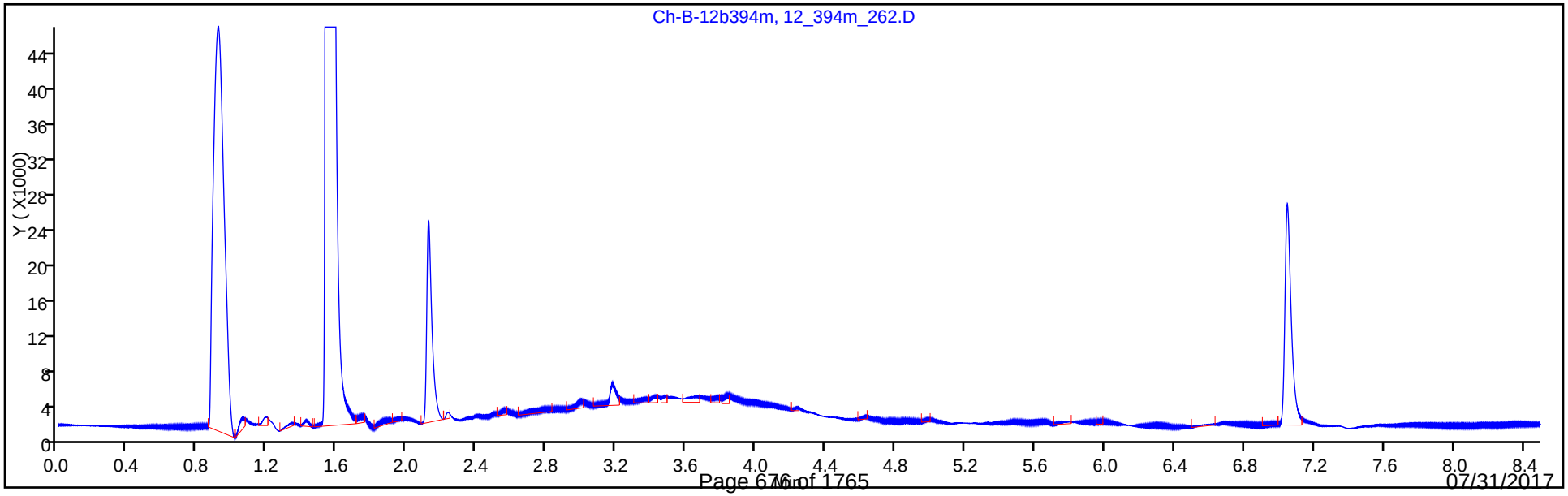
Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170720-64197.b\12_394m_262.D

Injection Date:	20-Jul-2017 18:58:26	Instrument ID:	HP5890-12	Operator ID:	BufTCHROM
Lims ID:	480-121321-B-1-A	Lab Sample ID:	480-121321-1	Worklist Smp#:	23
Client ID:	TP-01				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	5890-12 PCB IS	Limit Group:	GC - 8082A PCB IS ICAL		

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



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



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121321-1

SDG No.:

Client Sample ID: TP-03 | Lab Sample ID: 480-121321-2

Matrix: Solid | Lab File ID: 12_394m_263.D

Analysis Method: 8082A | Date Collected: 07/19/2017 10:00

Extraction Method: 3550C | Date Extracted: 07/20/2017 10:58

Sample wt/vol: 2.86(g) | Date Analyzed: 07/20/2017 19:13

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-5 ID: 0.53(mm)

% Moisture: 17.4 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 367887 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.21	0.041
11104-28-2	PCB-1221	ND		0.21	0.041
11141-16-5	PCB-1232	ND		0.21	0.041
53469-21-9	PCB-1242	ND		0.21	0.041
12672-29-6	PCB-1248	ND		0.21	0.041
11097-69-1	PCB-1254	ND		0.21	0.099
11096-82-5	PCB-1260	ND		0.21	0.099
37324-23-5	PCB-1262	ND		0.21	0.099
11100-14-4	PCB-1268	ND		0.21	0.099

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	142		60-154
2051-24-3	DCB Decachlorobiphenyl	134		65-174

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170720-64197.b\12_394m_263.D
Lims ID: 480-121321-B-2-A
Client ID: TP-03
Sample Type: Client
Inject. Date: 20-Jul-2017 19:13:48 ALS Bottle#: 0 Worklist Smp#: 24
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP5890-12

Method: \\ChromNA\Buffalo\ChromData\HP5890-12\20170720-64197.b\5890-12 PCB IS.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 21-Jul-2017 10:30:48 Calib Date: 13-May-2017 13:35:27
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170513-62487.b\12_390m_257.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK010

First Level Reviewer: owenj Date: 21-Jul-2017 10:30:48

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene						
1	1.258	1.258	0.000	927586	0.5000	
2	1.545	1.546	-0.001	905069	0.5000	
					RPD = 0.00	
$ 6 Tetrachloro-m-xylene						M
1	1.837	1.837	0.000	53324	0.0285	M
2	2.124	2.125	-0.001	47862	0.0295	
					RPD = 3.50	
$ 15 DCB Decachlorobiphenyl						
1	6.041	6.041	0.000	65434	0.0269	
2	7.047	7.049	-0.002	61389	0.0253	
					RPD = 6.13	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

COPPER_00070	Amount Added: 1.00	Units: g	Run Reagent
PCB IS 1B2NB_00037	Amount Added: 10.00	Units: uL	Run Reagent

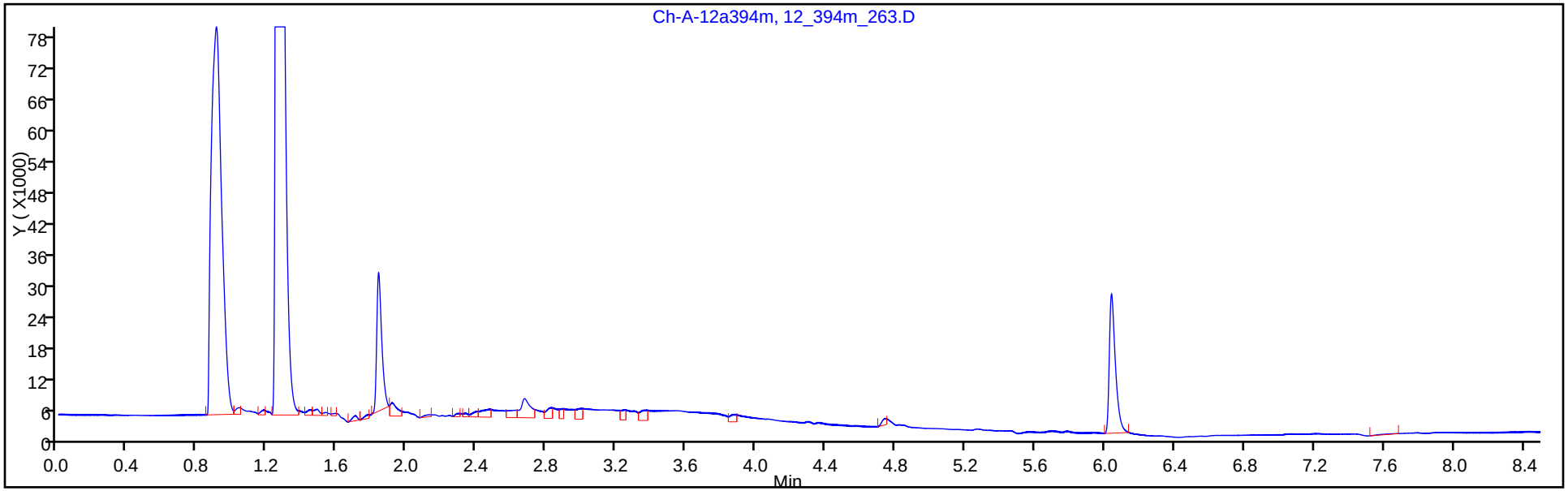
Report Date: 21-Jul-2017 10:30:49 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

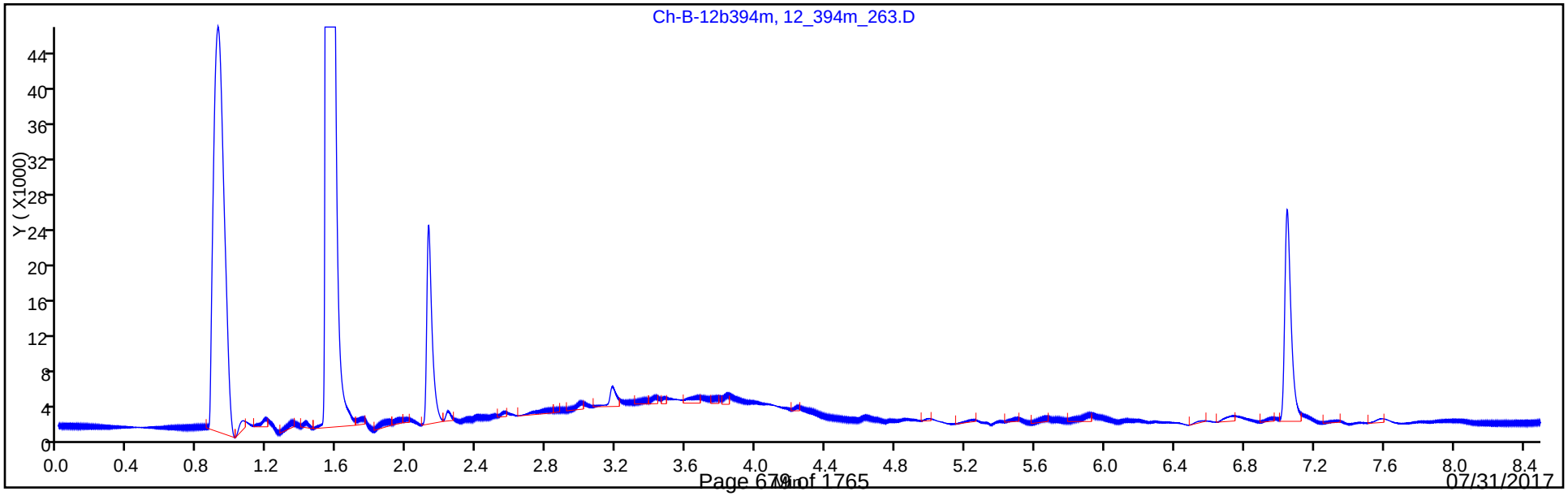
Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170720-64197.b\12_394m_263.D

Injection Date:	20-Jul-2017 19:13:48	Instrument ID:	HP5890-12	Operator ID:	BufTCHROM
Lims ID:	480-121321-B-2-A	Lab Sample ID:	480-121321-2	Worklist Smp#:	24
Client ID:	TP-03				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	5890-12 PCB IS	Limit Group:	GC - 8082A PCB IS ICAL		

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



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



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

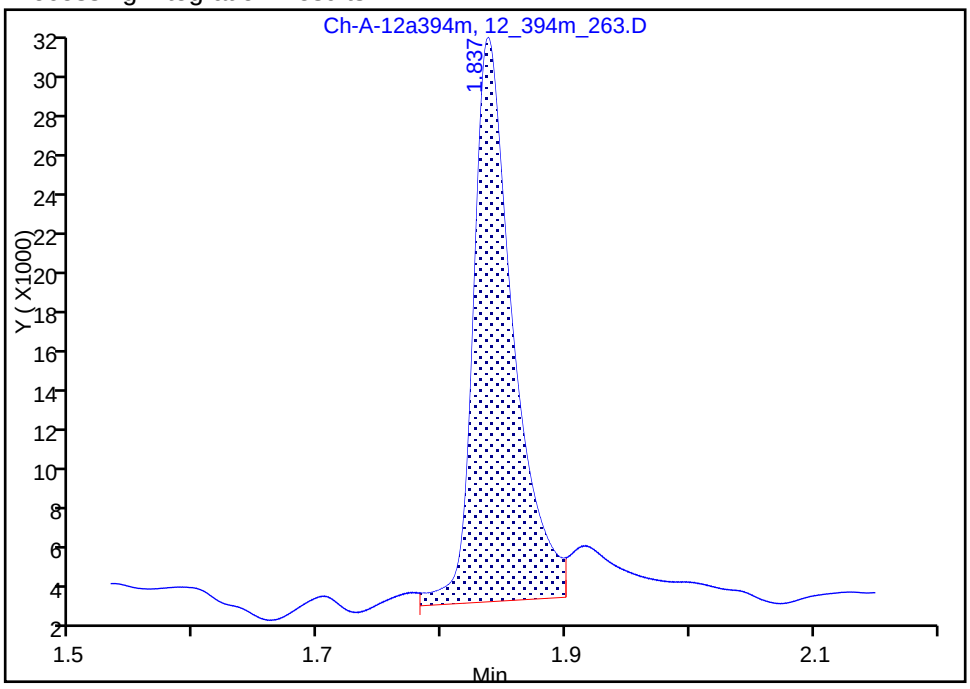
Data File:	\\ChromNA\Buffalo\ChromData\HP5890-12\20170720-64197.b\12_394m_263.D				
Injection Date:	20-Jul-2017 19:13:48	Instrument ID:	HP5890-12		
Lims ID:	480-121321-B-2-A	Lab Sample ID:	480-121321-2		
Client ID:	TP-03				
Operator ID:	BufTCHROM	ALS Bottle#:	0	Worklist Smp#:	24
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	5890-12 PCB IS	Limit Group:	GC - 8082A PCB IS ICAL		
Column:		Detector	Ch-A-7A136		

$ 6 Tetrachloro-m-xylene, CAS: 877-09-8

Signal: 1

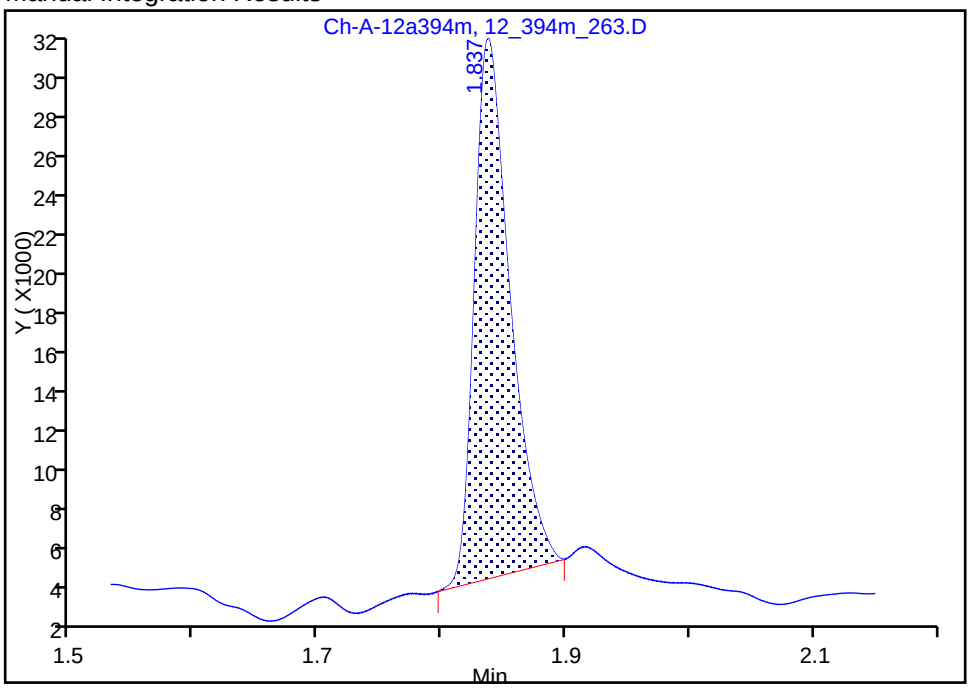
Processing Integration Results

RT: 1.84
Area: 62001
Amount: 0.033072
Amount Units: ng/uL



Manual Integration Results

RT: 1.84
Area: 53324
Amount: 0.028468
Amount Units: ng/uL



Reviewer: owenj, 21-Jul-2017 10:30:45

Audit Action: Manually Integrated Audit Reason: Split Peak

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121321-1

SDG No.:

Client Sample ID: TP-03 | Lab Sample ID: 480-121321-2

Matrix: Solid | Lab File ID: 12_394m_263.D

Analysis Method: 8082A | Date Collected: 07/19/2017 10:00

Extraction Method: 3550C | Date Extracted: 07/20/2017 10:58

Sample wt/vol: 2.86(g) | Date Analyzed: 07/20/2017 19:13

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 17.4 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 367887 | Units: mg/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	147		60-154
2051-24-3	DCB Decachlorobiphenyl	126		65-174

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170720-64197.b\12_394m_263.D
Lims ID: 480-121321-B-2-A
Client ID: TP-03
Sample Type: Client
Inject. Date: 20-Jul-2017 19:13:48 ALS Bottle#: 0 Worklist Smp#: 24
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP5890-12

Method: \\ChromNA\Buffalo\ChromData\HP5890-12\20170720-64197.b\5890-12 PCB IS.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 21-Jul-2017 10:30:48 Calib Date: 13-May-2017 13:35:27
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170513-62487.b\12_390m_257.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK010

First Level Reviewer: owenj Date: 21-Jul-2017 10:30:48

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene						
1	1.258	1.258	0.000	927586	0.5000	
2	1.545	1.546	-0.001	905069	0.5000	
					RPD = 0.00	
$ 6 Tetrachloro-m-xylene						M
1	1.837	1.837	0.000	53324	0.0285	M
2	2.124	2.125	-0.001	47862	0.0295	
					RPD = 3.50	
$ 15 DCB Decachlorobiphenyl						
1	6.041	6.041	0.000	65434	0.0269	
2	7.047	7.049	-0.002	61389	0.0253	
					RPD = 6.13	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

COPPER_00070	Amount Added: 1.00	Units: g	Run Reagent
PCB IS 1B2NB_00037	Amount Added: 10.00	Units: uL	Run Reagent

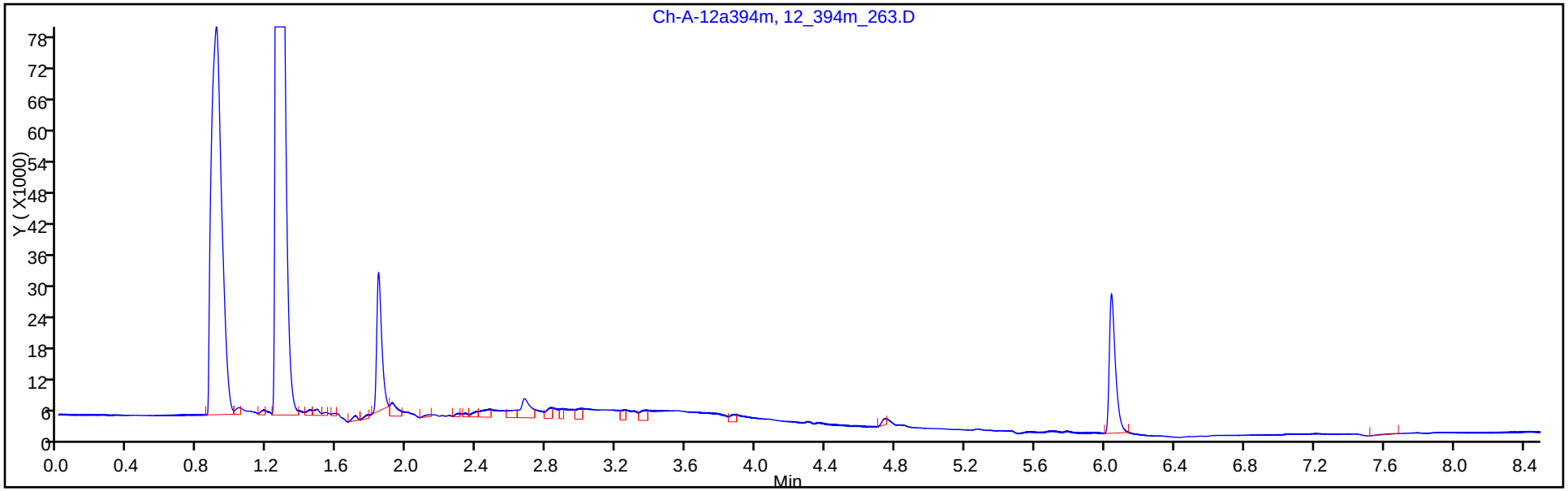
Report Date: 21-Jul-2017 10:30:49 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

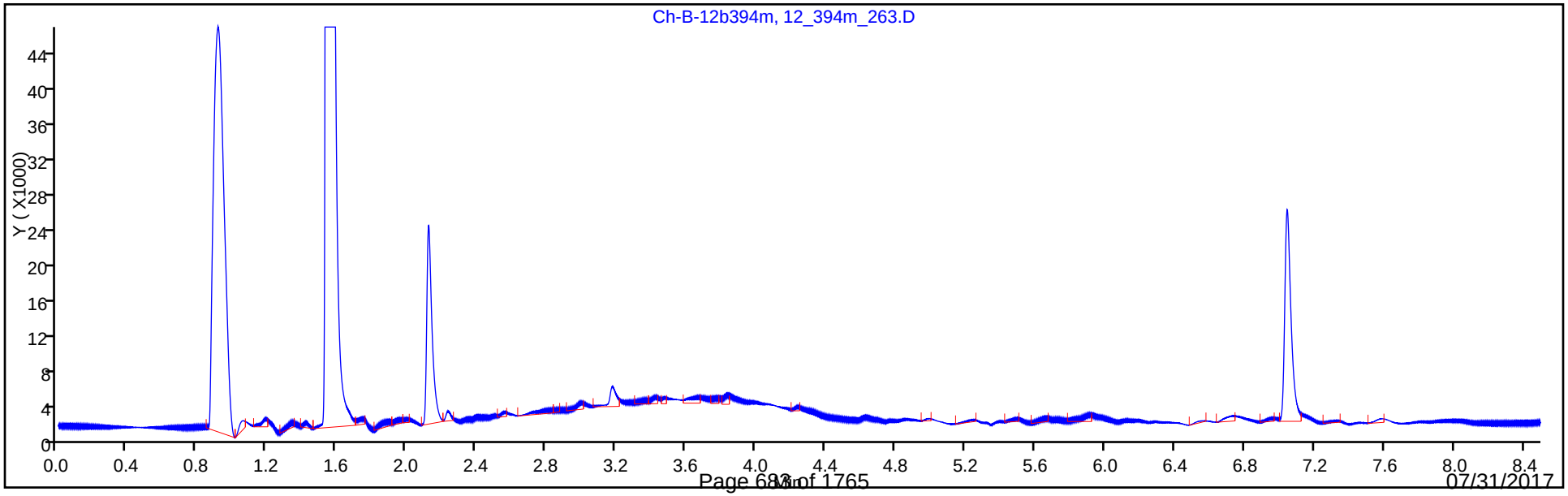
Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170720-64197.b\12_394m_263.D

Injection Date:	20-Jul-2017 19:13:48	Instrument ID:	HP5890-12	Operator ID:	BufTCHROM
Lims ID:	480-121321-B-2-A	Lab Sample ID:	480-121321-2	Worklist Smp#:	24
Client ID:	TP-03				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	5890-12 PCB IS	Limit Group:	GC - 8082A PCB IS ICAL		

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



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



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121321-1

SDG No.:

Client Sample ID: TP-18 | Lab Sample ID: 480-121321-3

Matrix: Solid | Lab File ID: 12_394m_264.D

Analysis Method: 8082A | Date Collected: 07/19/2017 11:00

Extraction Method: 3550C | Date Extracted: 07/20/2017 10:58

Sample wt/vol: 2.69(g) | Date Analyzed: 07/20/2017 19:29

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-5 ID: 0.53(mm)

% Moisture: 21.9 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 367887 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.24	0.047
11104-28-2	PCB-1221	ND		0.24	0.047
11141-16-5	PCB-1232	ND		0.24	0.047
53469-21-9	PCB-1242	ND		0.24	0.047
12672-29-6	PCB-1248	0.51		0.24	0.047
11097-69-1	PCB-1254	ND		0.24	0.11
11096-82-5	PCB-1260	ND		0.24	0.11
37324-23-5	PCB-1262	ND		0.24	0.11
11100-14-4	PCB-1268	ND		0.24	0.11

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	144		60-154
2051-24-3	DCB Decachlorobiphenyl	125		65-174

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170720-64197.b\12_394m_264.D
Lims ID: 480-121321-B-3-A
Client ID: TP-18
Sample Type: Client
Inject. Date: 20-Jul-2017 19:29:07 ALS Bottle#: 0 Worklist Smp#: 25
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP5890-12

Method: \\ChromNA\Buffalo\ChromData\HP5890-12\20170720-64197.b\5890-12 PCB IS.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 21-Jul-2017 10:33:01 Calib Date: 13-May-2017 13:35:27
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170513-62487.b\12_390m_257.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK010

First Level Reviewer: owenj Date: 21-Jul-2017 10:33:00

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene						
1	1.258	1.258	0.000	1015439	0.5000	
2	1.545	1.546	-0.001	971732	0.5000	
					RPD = 0.00	
$ 6 Tetrachloro-m-xylene						
1	1.837	1.837	0.000	59072	0.0288	
2	2.124	2.125	-0.001	46429	0.0266	
					RPD = 7.80	
10 PCB-1248						M
1	2.839	2.841	-0.002	12220	0.2389	M
1	3.053	3.052	0.001	6514	0.0630	M
1	3.247	3.241	0.006	5638	0.0418	M
1	3.275	3.270	0.005	12401	0.0605	M
1	3.439	3.436	0.003	9139	0.1289	M
		Average of Peak Amounts =			0.1066	
2	3.435	3.435	0.000	6379	0.0985	M
2	3.640	3.637	0.003	5595	0.0726	M
2	3.881	3.878	0.003	7571	0.0624	M
2	3.927	3.925	0.002	5174	0.0506	M
2	4.125	4.131	-0.006	2013	0.0108	M
		Average of Peak Amounts =			0.0590	
					RPD = 57.49	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
$ 15 DCB Decachlorobiphenyl						
1	6.041	6.041	0.000	66790	0.0251	
2	7.049	7.049	0.000	61947	0.0237	
					RPD = 5.35	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

COPPER_00070	Amount Added: 1.00	Units: g	Run Reagent
PCB IS 1B2NB_00037	Amount Added: 10.00	Units: uL	Run Reagent

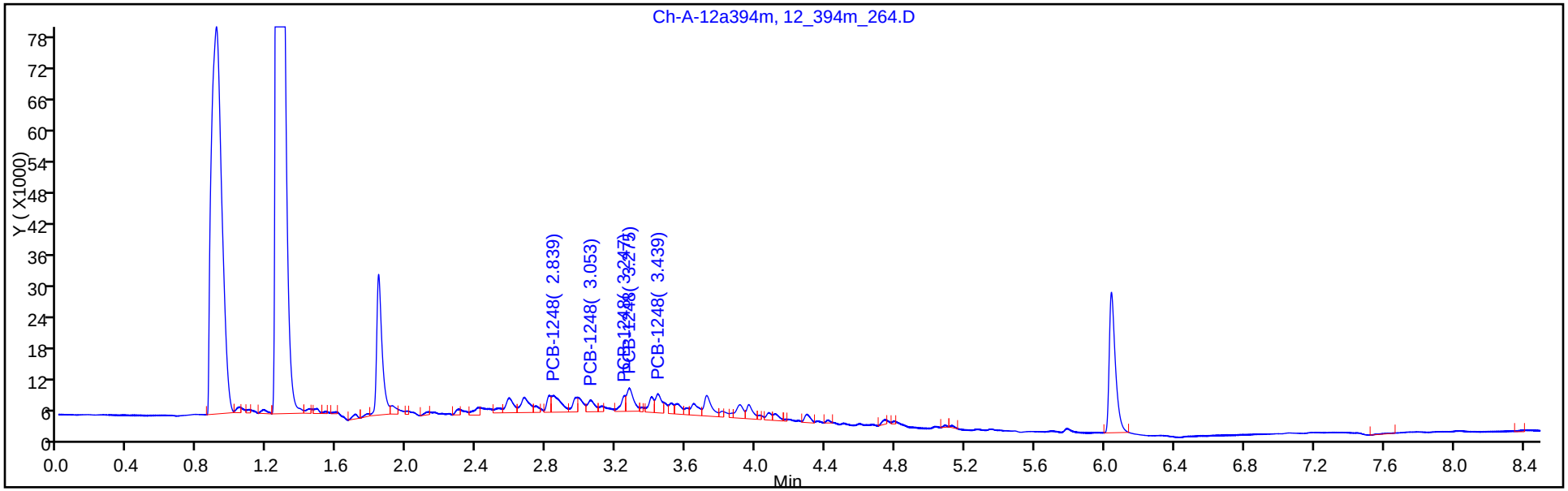
Report Date: 21-Jul-2017 10:33:01 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

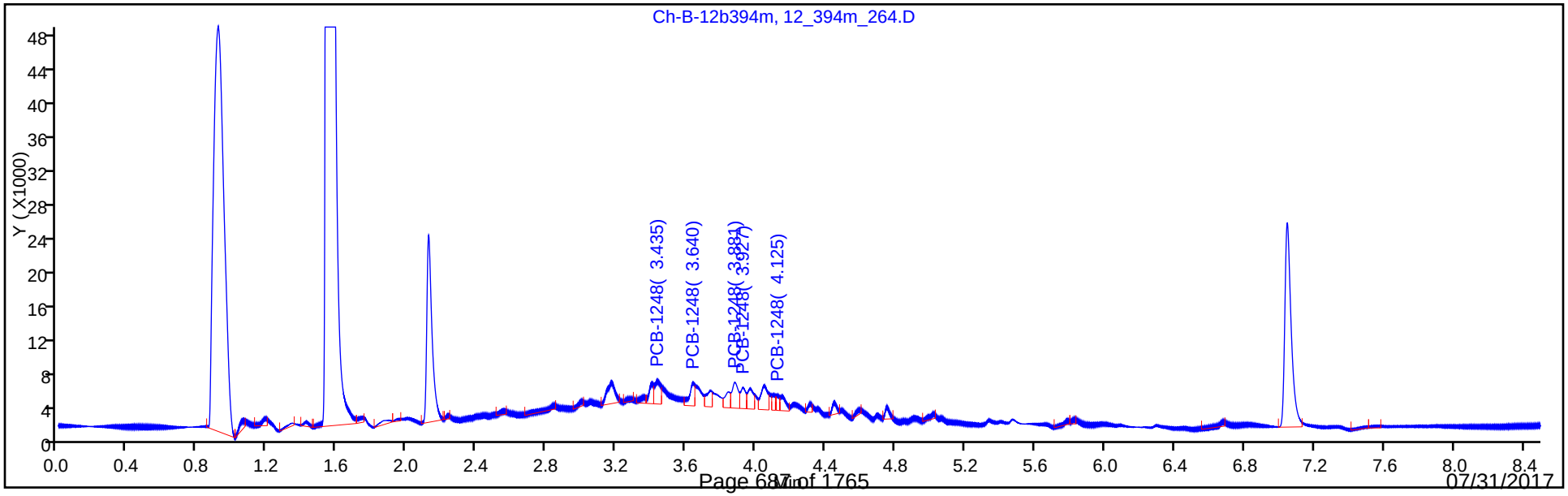
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Injection Date:	20-Jul-2017 19:29:07	Instrument ID:	HP5890-12	Operator ID:	BufTCHROM
Lims ID:	480-121321-B-3-A	Lab Sample ID:	480-121321-3	Worklist Smp#:	25
Client ID:	TP-18				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	5890-12 PCB IS	Limit Group:	GC - 8082A PCB IS ICAL		

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



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



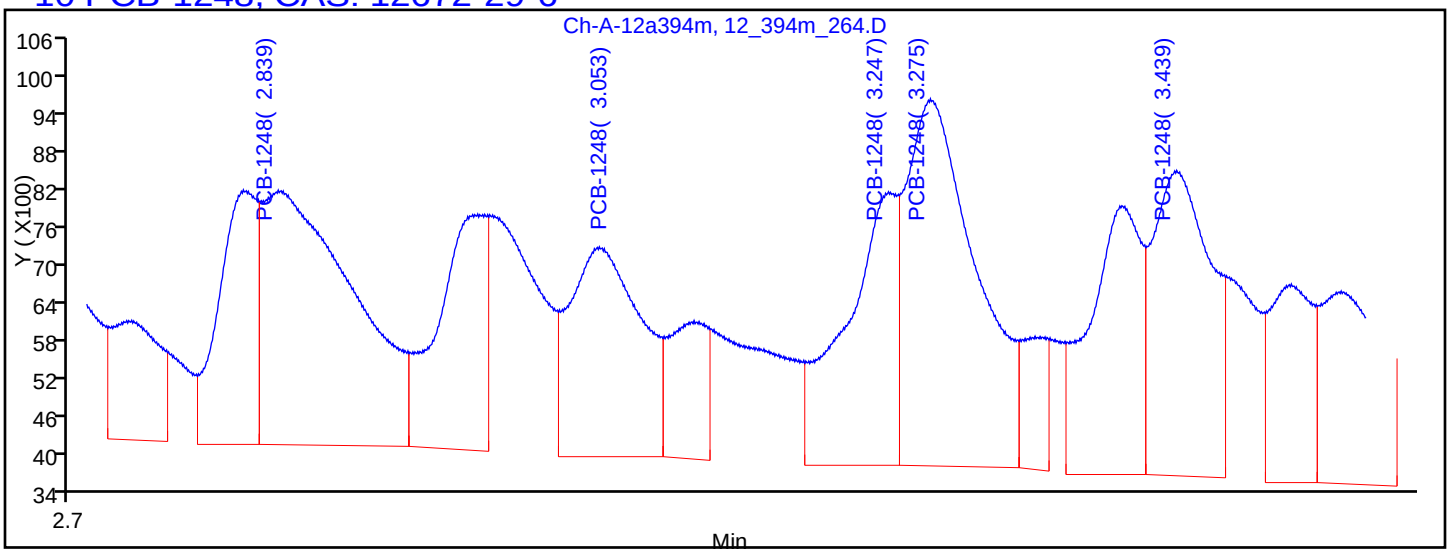
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TestAmerica Buffalo

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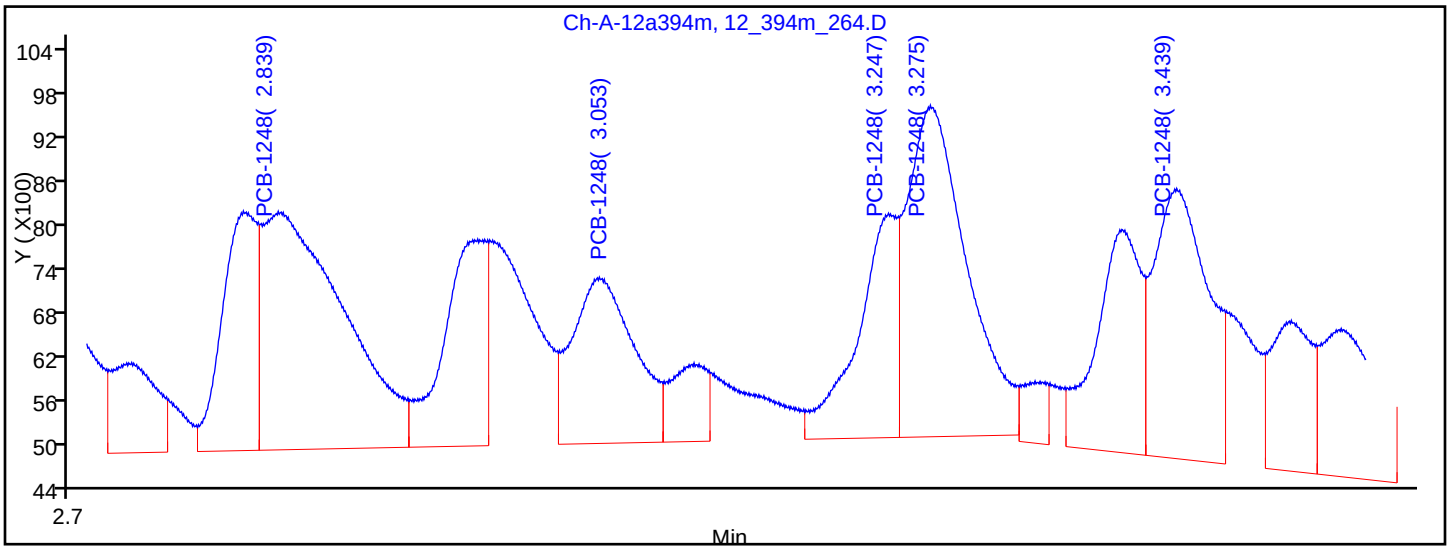
Injection Date:	20-Jul-2017 19:29:07	Instrument ID:	HP5890-12		
Lims ID:	480-121321-B-3-A	Lab Sample ID:	480-121321-3		
Client ID:	TP-18				
Operator ID:	BufTCHROM	ALS Bottle#:	0	Worklist Smp#:	25
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	5890-12 PCB IS	Limit Group:	GC - 8082A PCB IS ICAL		
Column:		Detector	Ch-A-7A136		

10 PCB-1248, CAS: 12672-29-6



Processing Integration Results

2.839	Response = 17008
3.053	Response = 10926
3.247	Response = 10394
3.275	Response = 18638
3.439	Response = 12768



Manual Integration Results

2.839	Response = 12220	M
3.053	Response = 6514	M
3.247	Response = 5638	M
3.275	Response = 12401	M
3.439	Response = 9139	M

Reviewer: owenj, 21-Jul-2017 10:32:48

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121321-1

SDG No.:

Client Sample ID: TP-18 | Lab Sample ID: 480-121321-3

Matrix: Solid | Lab File ID: 12_394m_264.D

Analysis Method: 8082A | Date Collected: 07/19/2017 11:00

Extraction Method: 3550C | Date Extracted: 07/20/2017 10:58

Sample wt/vol: 2.69(g) | Date Analyzed: 07/20/2017 19:29

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 21.9 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 367887 | Units: mg/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	133		60-154
2051-24-3	DCB Decachlorobiphenyl	119		65-174

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170720-64197.b\12_394m_264.D
Lims ID: 480-121321-B-3-A
Client ID: TP-18
Sample Type: Client
Inject. Date: 20-Jul-2017 19:29:07 ALS Bottle#: 0 Worklist Smp#: 25
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP5890-12

Method: \\ChromNA\Buffalo\ChromData\HP5890-12\20170720-64197.b\5890-12 PCB IS.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 21-Jul-2017 10:33:01 Calib Date: 13-May-2017 13:35:27
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170513-62487.b\12_390m_257.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK010

First Level Reviewer: owenj Date: 21-Jul-2017 10:33:00

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene						
1	1.258	1.258	0.000	1015439	0.5000	
2	1.545	1.546	-0.001	971732	0.5000	
					RPD = 0.00	
$ 6 Tetrachloro-m-xylene						
1	1.837	1.837	0.000	59072	0.0288	
2	2.124	2.125	-0.001	46429	0.0266	
					RPD = 7.80	
10 PCB-1248						M
1	2.839	2.841	-0.002	12220	0.2389	M
1	3.053	3.052	0.001	6514	0.0630	M
1	3.247	3.241	0.006	5638	0.0418	M
1	3.275	3.270	0.005	12401	0.0605	M
1	3.439	3.436	0.003	9139	0.1289	M
		Average of Peak Amounts =			0.1066	
2	3.435	3.435	0.000	6379	0.0985	M
2	3.640	3.637	0.003	5595	0.0726	M
2	3.881	3.878	0.003	7571	0.0624	M
2	3.927	3.925	0.002	5174	0.0506	M
2	4.125	4.131	-0.006	2013	0.0108	M
		Average of Peak Amounts =			0.0590	
					RPD = 57.49	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
$ 15 DCB Decachlorobiphenyl						
1	6.041	6.041	0.000	66790	0.0251	
2	7.049	7.049	0.000	61947	0.0237	
					RPD = 5.35	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

COPPER_00070	Amount Added: 1.00	Units: g	Run Reagent
PCB IS 1B2NB_00037	Amount Added: 10.00	Units: uL	Run Reagent

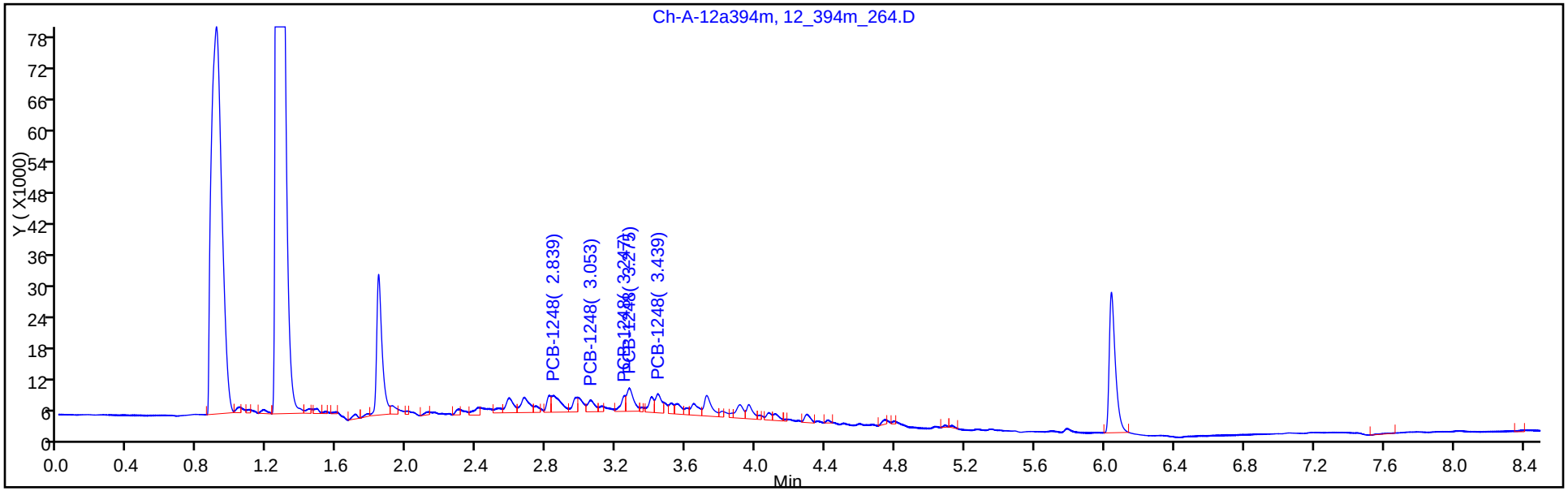
Report Date: 21-Jul-2017 10:33:03 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

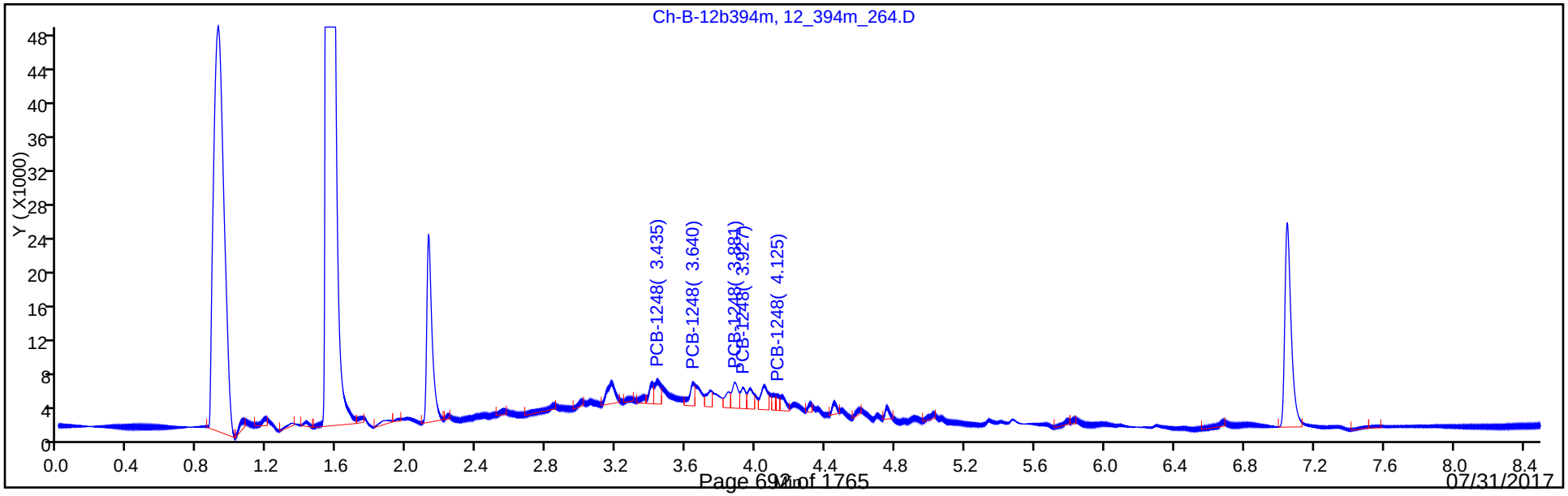
Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170720-64197.b\12_394m_264.D

Injection Date:	20-Jul-2017 19:29:07	Instrument ID:	HP5890-12	Operator ID:	BufTCHROM
Lims ID:	480-121321-B-3-A	Lab Sample ID:	480-121321-3	Worklist Smp#:	25
Client ID:	TP-18				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	5890-12 PCB IS	Limit Group:	GC - 8082A PCB IS ICAL		

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



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



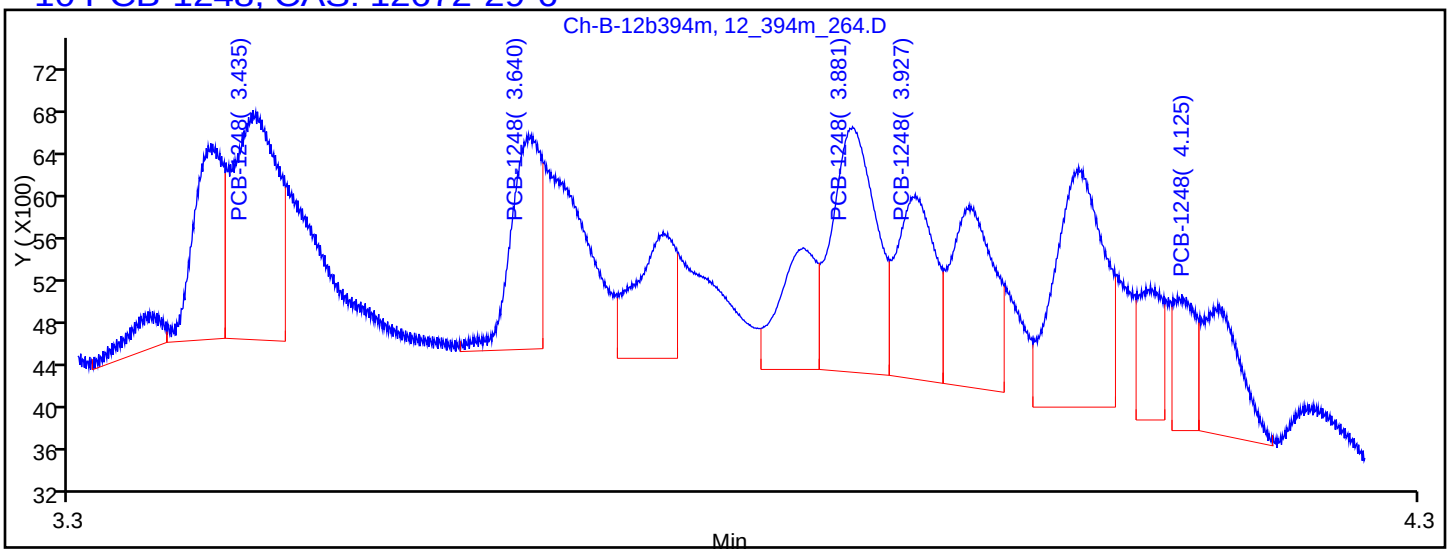
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TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170720-64197.b\12_394m_264.D

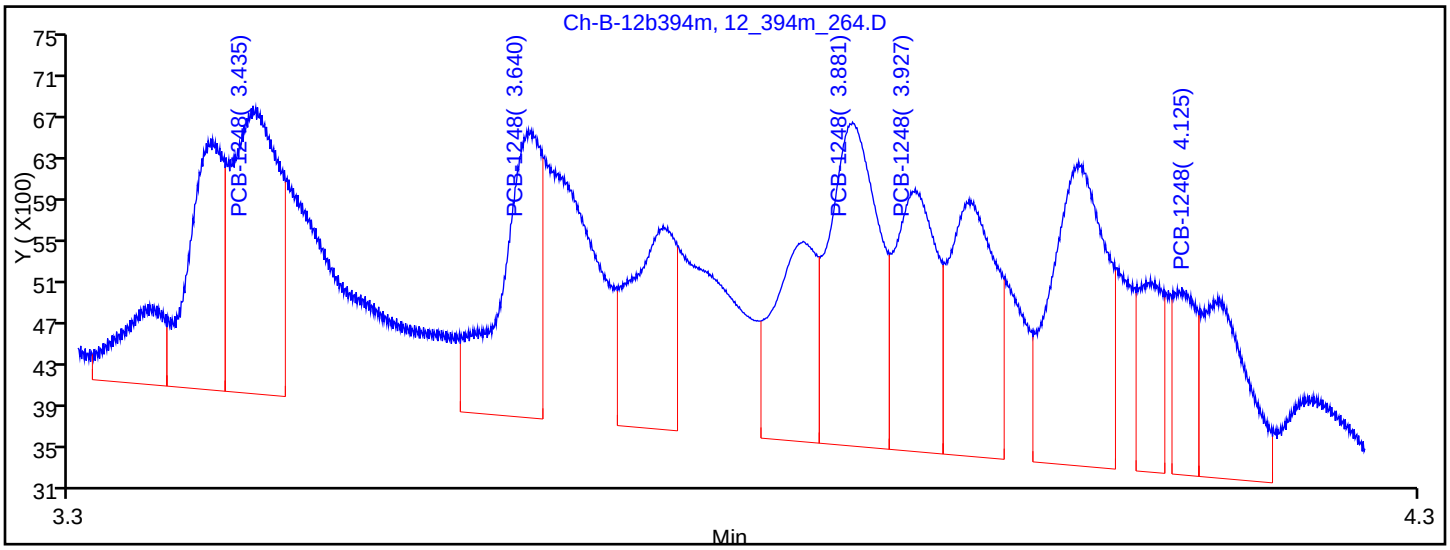
Injection Date:	20-Jul-2017 19:29:07	Instrument ID:	HP5890-12		
Lims ID:	480-121321-B-3-A	Lab Sample ID:	480-121321-3		
Client ID:	TP-18				
Operator ID:	BufTCHROM	ALS Bottle#:	0	Worklist Smp#:	25
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	5890-12 PCB IS	Limit Group:	GC - 8082A PCB IS ICAL		
Column:		Detector	Ch-B-7b136		

10 PCB-1248, CAS: 12672-29-6



Processing Integration Results

3.435	Response = 4811
3.640	Response = 3047
3.881	Response = 5148
3.927	Response = 3343
4.125	Response = 1404



Manual Integration Results

3.435	Response = 6379	M
3.640	Response = 5595	M
3.881	Response = 7571	M
3.927	Response = 5174	M
4.125	Response = 2013	M

Reviewer: owenj, 21-Jul-2017 10:32:54

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121321-1

SDG No.:

Client Sample ID: TP-04 | Lab Sample ID: 480-121321-4

Matrix: Solid | Lab File ID: 12_394m_261.D

Analysis Method: 8082A | Date Collected: 07/19/2017 13:00

Extraction Method: 3550C | Date Extracted: 07/20/2017 10:58

Sample wt/vol: 2.36(g) | Date Analyzed: 07/20/2017 18:43

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-5 ID: 0.53(mm)

% Moisture: 17.9 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 367887 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.26	0.050
11104-28-2	PCB-1221	ND		0.26	0.050
11141-16-5	PCB-1232	ND		0.26	0.050
53469-21-9	PCB-1242	ND		0.26	0.050
12672-29-6	PCB-1248	ND		0.26	0.050
11097-69-1	PCB-1254	ND		0.26	0.12
11096-82-5	PCB-1260	ND		0.26	0.12
37324-23-5	PCB-1262	ND		0.26	0.12
11100-14-4	PCB-1268	ND		0.26	0.12

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	144		60-154
2051-24-3	DCB Decachlorobiphenyl	140		65-174

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170720-64197.b\12_394m_261.D
Lims ID: 480-121321-B-4-C
Client ID: TP-04
Sample Type: Client
Inject. Date: 20-Jul-2017 18:43:04 ALS Bottle#: 0 Worklist Smp#: 22
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP5890-12

Method: \\ChromNA\Buffalo\ChromData\HP5890-12\20170720-64197.b\5890-12 PCB IS.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 21-Jul-2017 10:27:57 Calib Date: 13-May-2017 13:35:27
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170513-62487.b\12_390m_257.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK010

First Level Reviewer: owenj Date: 21-Jul-2017 10:27:57

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene						
1	1.259	1.258	0.001	898811	0.5000	
2	1.546	1.546	0.000	878268	0.5000	
					RPD = 0.00	
$ 6 Tetrachloro-m-xylene						M
1	1.837	1.837	0.000	52271	0.0288	M
2	2.125	2.125	0.000	47020	0.0298	
					RPD = 3.57	
$ 15 DCB Decachlorobiphenyl						
1	6.041	6.041	0.000	66011	0.0280	
2	7.049	7.049	0.000	63254	0.0268	
					RPD = 4.14	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

COPPER_00070	Amount Added: 1.00	Units: g	Run Reagent
PCB IS 1B2NB_00037	Amount Added: 10.00	Units: uL	Run Reagent

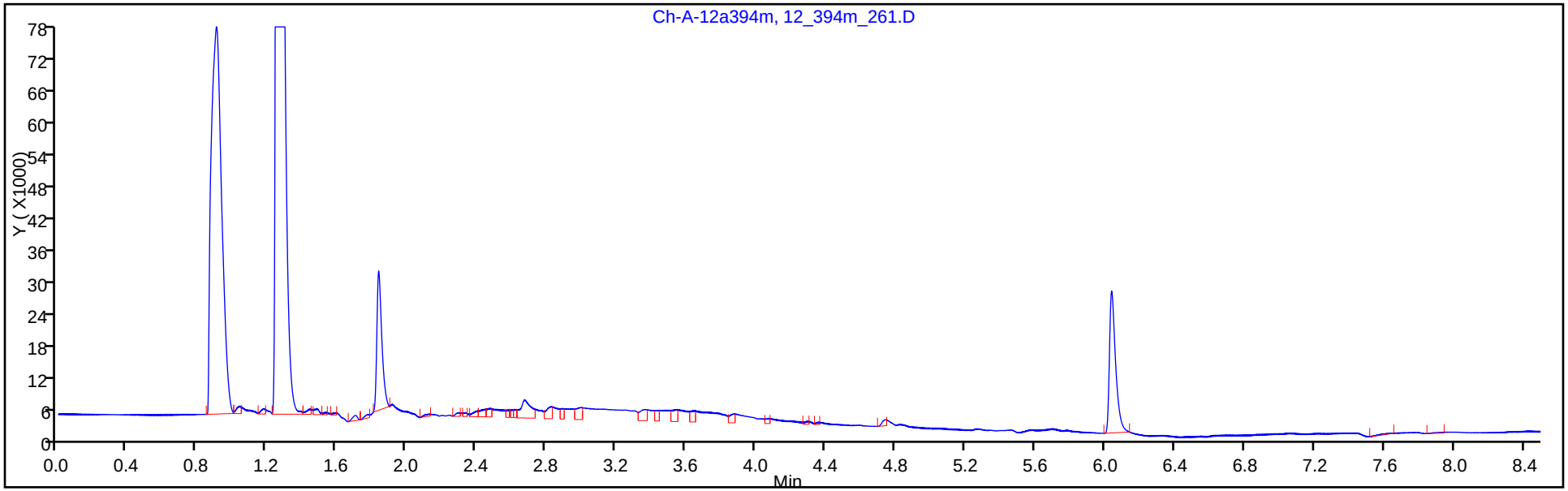
Report Date: 21-Jul-2017 10:27:58 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

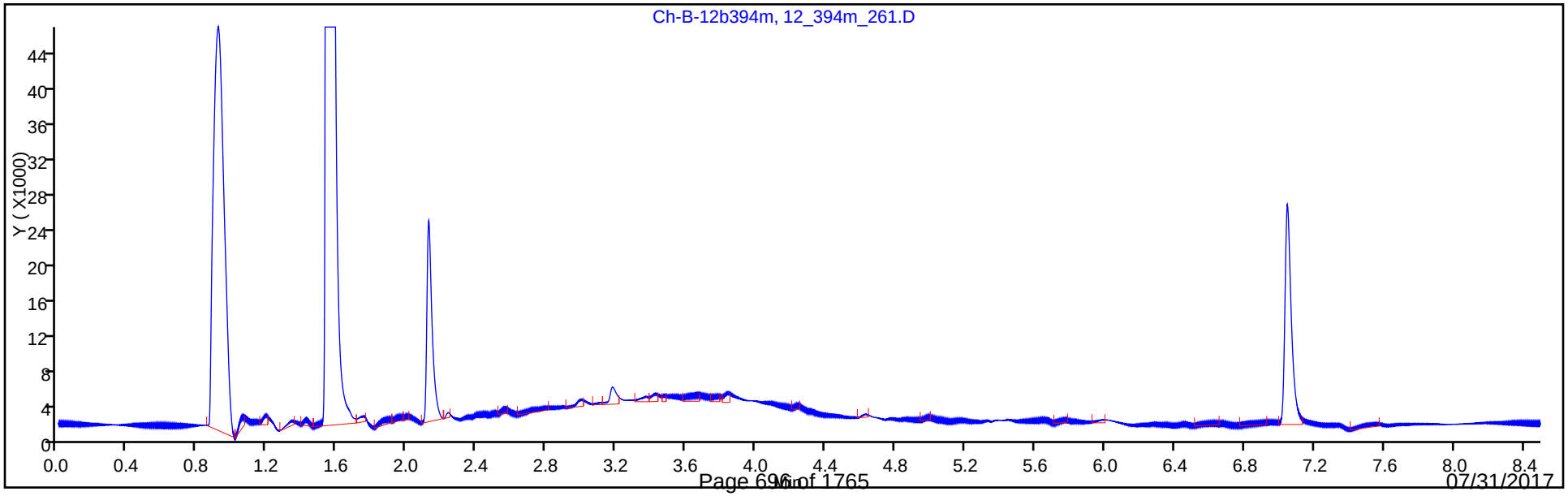
Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170720-64197.b\12_394m_261.D

Injection Date:	20-Jul-2017 18:43:04	Instrument ID:	HP5890-12	Operator ID:	BufTCHROM
Lims ID:	480-121321-B-4-C	Lab Sample ID:	480-121321-4	Worklist Smp#:	22
Client ID:	TP-04				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	5890-12 PCB IS	Limit Group:	GC - 8082A PCB IS ICAL		

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



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



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

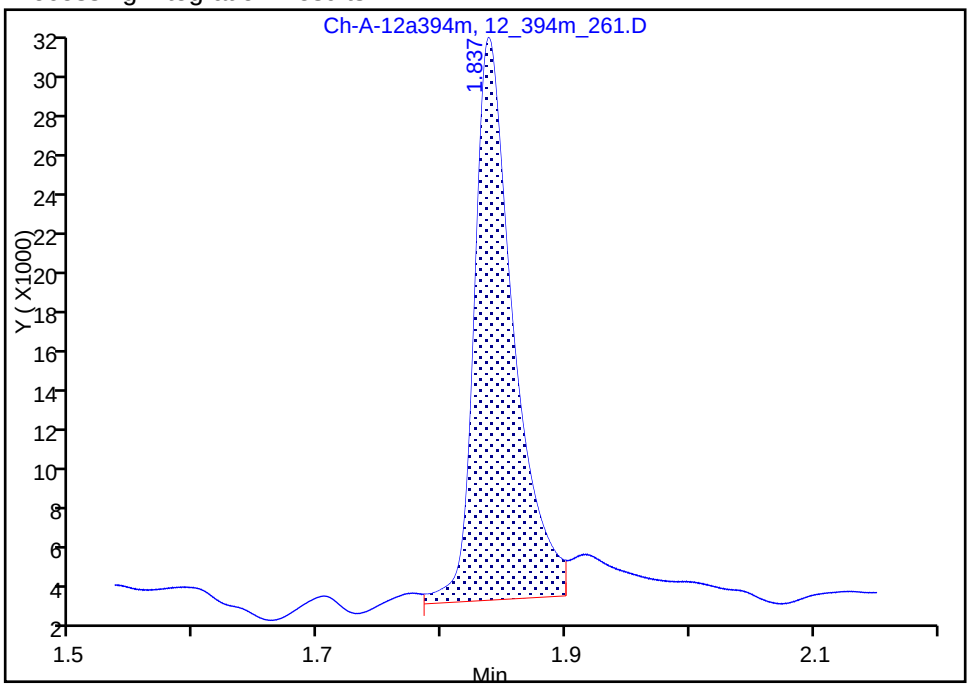
Data File:	\\ChromNA\Buffalo\ChromData\HP5890-12\20170720-64197.b\12_394m_261.D				
Injection Date:	20-Jul-2017 18:43:04	Instrument ID:	HP5890-12		
Lims ID:	480-121321-B-4-C	Lab Sample ID:	480-121321-4		
Client ID:	TP-04				
Operator ID:	BufTCHROM	ALS Bottle#:	0	Worklist Smp#:	22
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	5890-12 PCB IS	Limit Group:	GC - 8082A PCB IS ICAL		
Column:		Detector	Ch-A-7A136		

$ 6 Tetrachloro-m-xylene, CAS: 877-09-8

Signal: 1

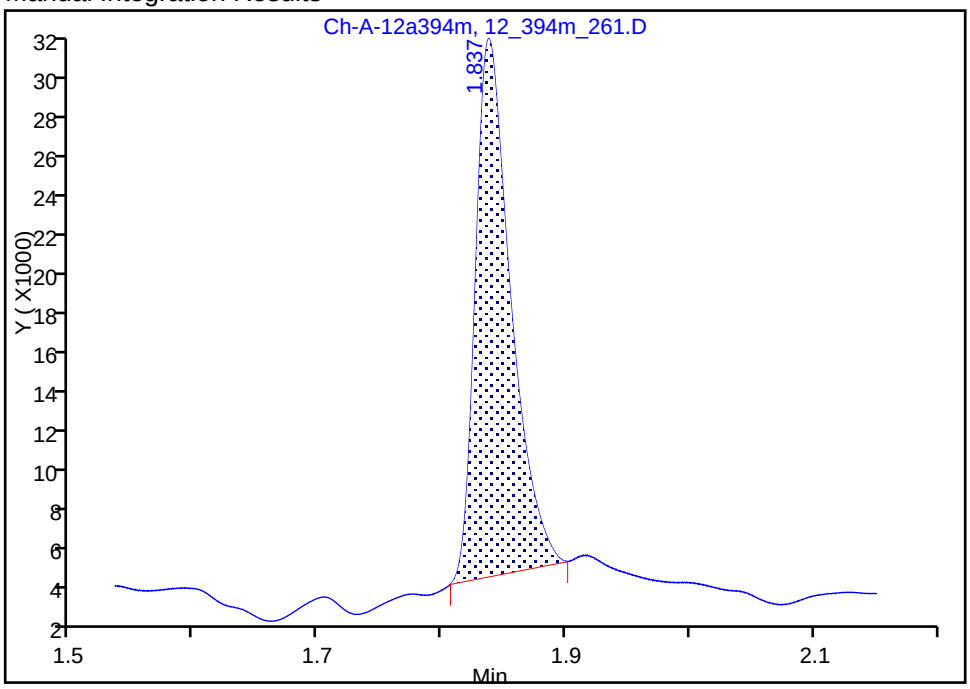
Processing Integration Results

RT: 1.84
Area: 60408
Amount: 0.033253
Amount Units: ng/uL



Manual Integration Results

RT: 1.84
Area: 52271
Amount: 0.028797
Amount Units: ng/uL



Reviewer: owenj, 21-Jul-2017 10:27:41

Audit Action: Manually Integrated Audit Reason: Baseline Smoothing

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121321-1

SDG No.:

Client Sample ID: TP-04 | Lab Sample ID: 480-121321-4

Matrix: Solid | Lab File ID: 12_394m_261.D

Analysis Method: 8082A | Date Collected: 07/19/2017 13:00

Extraction Method: 3550C | Date Extracted: 07/20/2017 10:58

Sample wt/vol: 2.36(g) | Date Analyzed: 07/20/2017 18:43

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 17.9 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 367887 | Units: mg/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	149		60-154
2051-24-3	DCB Decachlorobiphenyl	134		65-174

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170720-64197.b\12_394m_261.D
Lims ID: 480-121321-B-4-C
Client ID: TP-04
Sample Type: Client
Inject. Date: 20-Jul-2017 18:43:04 ALS Bottle#: 0 Worklist Smp#: 22
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP5890-12

Method: \\ChromNA\Buffalo\ChromData\HP5890-12\20170720-64197.b\5890-12 PCB IS.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 21-Jul-2017 10:27:57 Calib Date: 13-May-2017 13:35:27
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170513-62487.b\12_390m_257.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK010

First Level Reviewer: owenj Date: 21-Jul-2017 10:27:57

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene						
1	1.259	1.258	0.001	898811	0.5000	
2	1.546	1.546	0.000	878268	0.5000	
					RPD = 0.00	
$ 6 Tetrachloro-m-xylene						M
1	1.837	1.837	0.000	52271	0.0288	M
2	2.125	2.125	0.000	47020	0.0298	
					RPD = 3.57	
$ 15 DCB Decachlorobiphenyl						
1	6.041	6.041	0.000	66011	0.0280	
2	7.049	7.049	0.000	63254	0.0268	
					RPD = 4.14	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

COPPER_00070	Amount Added: 1.00	Units: g	Run Reagent
PCB IS 1B2NB_00037	Amount Added: 10.00	Units: uL	Run Reagent

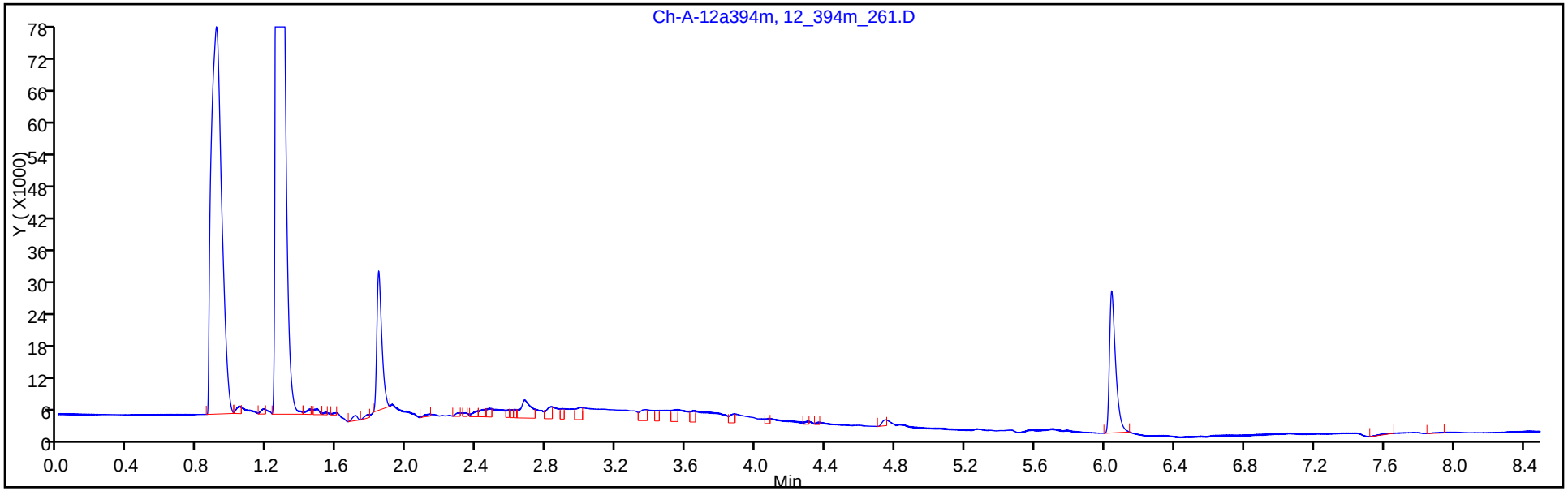
Report Date: 21-Jul-2017 10:27:58 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

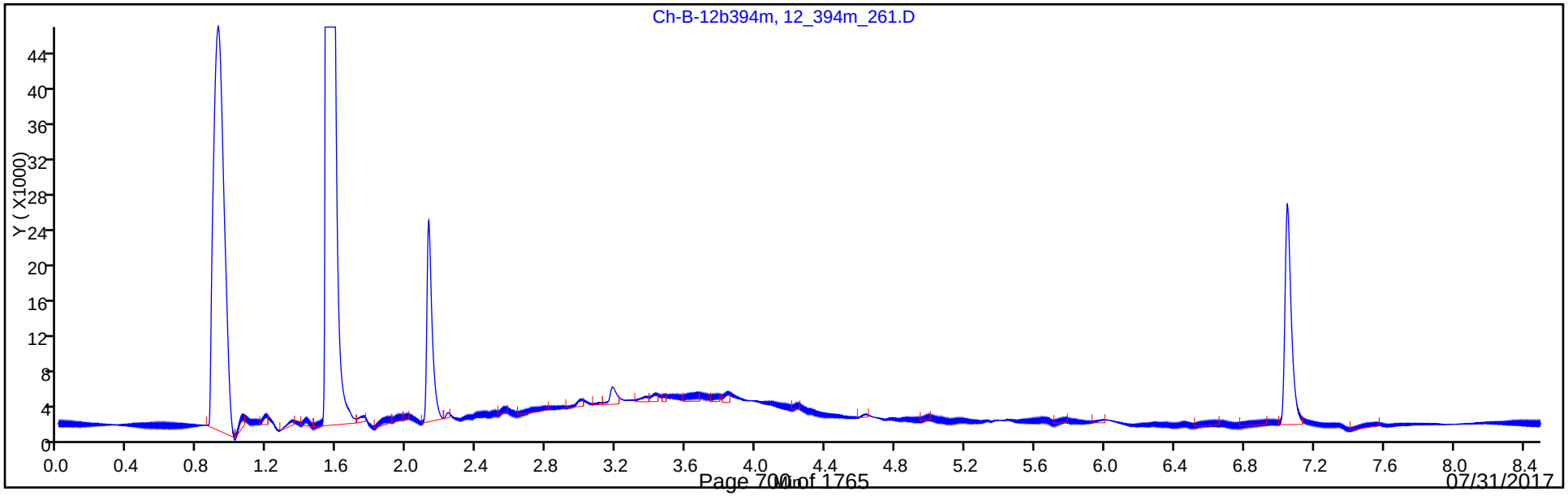
Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170720-64197.b\12_394m_261.D

Injection Date:	20-Jul-2017 18:43:04	Instrument ID:	HP5890-12	Operator ID:	BufTCHROM
Lims ID:	480-121321-B-4-C	Lab Sample ID:	480-121321-4	Worklist Smp#:	22
Client ID:	TP-04				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	5890-12 PCB IS	Limit Group:	GC - 8082A PCB IS ICAL		

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



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



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121321-1

SDG No.:

Client Sample ID: TP-05 | Lab Sample ID: 480-121321-5

Matrix: Solid | Lab File ID: 12_394m_265.D

Analysis Method: 8082A | Date Collected: 07/19/2017 14:00

Extraction Method: 3550C | Date Extracted: 07/20/2017 10:58

Sample wt/vol: 2.51(g) | Date Analyzed: 07/20/2017 19:44

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-5 ID: 0.53(mm)

% Moisture: 21.0 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 367887 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.25	0.049
11104-28-2	PCB-1221	ND		0.25	0.049
11141-16-5	PCB-1232	ND		0.25	0.049
53469-21-9	PCB-1242	ND		0.25	0.049
12672-29-6	PCB-1248	ND		0.25	0.049
11097-69-1	PCB-1254	ND		0.25	0.12
11096-82-5	PCB-1260	ND		0.25	0.12
37324-23-5	PCB-1262	ND		0.25	0.12
11100-14-4	PCB-1268	ND		0.25	0.12

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	141		60-154
2051-24-3	DCB Decachlorobiphenyl	125		65-174

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170720-64197.b\12_394m_265.D
Lims ID: 480-121321-B-5-A
Client ID: TP-05
Sample Type: Client
Inject. Date: 20-Jul-2017 19:44:29 ALS Bottle#: 0 Worklist Smp#: 26
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP5890-12

Method: \\ChromNA\Buffalo\ChromData\HP5890-12\20170720-64197.b\5890-12 PCB IS.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 21-Jul-2017 10:33:32 Calib Date: 13-May-2017 13:35:27
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170513-62487.b\12_390m_257.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK010

First Level Reviewer: owenj Date: 21-Jul-2017 10:33:32

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene						
1	1.258	1.258	0.000	1057318	0.5000	
2	1.545	1.546	-0.001	1037327	0.5000	
					RPD = 0.00	
$ 6 Tetrachloro-m-xylene						M
1	1.837	1.837	0.000	60047	0.0281	M
2	2.125	2.125	0.000	46921	0.0252	
					RPD = 10.86	
$ 15 DCB Decachlorobiphenyl						
1	6.041	6.041	0.000	69448	0.0250	
2	7.049	7.049	0.000	63825	0.0229	
					RPD = 8.77	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

COPPER_00070	Amount Added: 1.00	Units: g	Run Reagent
PCB IS 1B2NB_00037	Amount Added: 10.00	Units: uL	Run Reagent

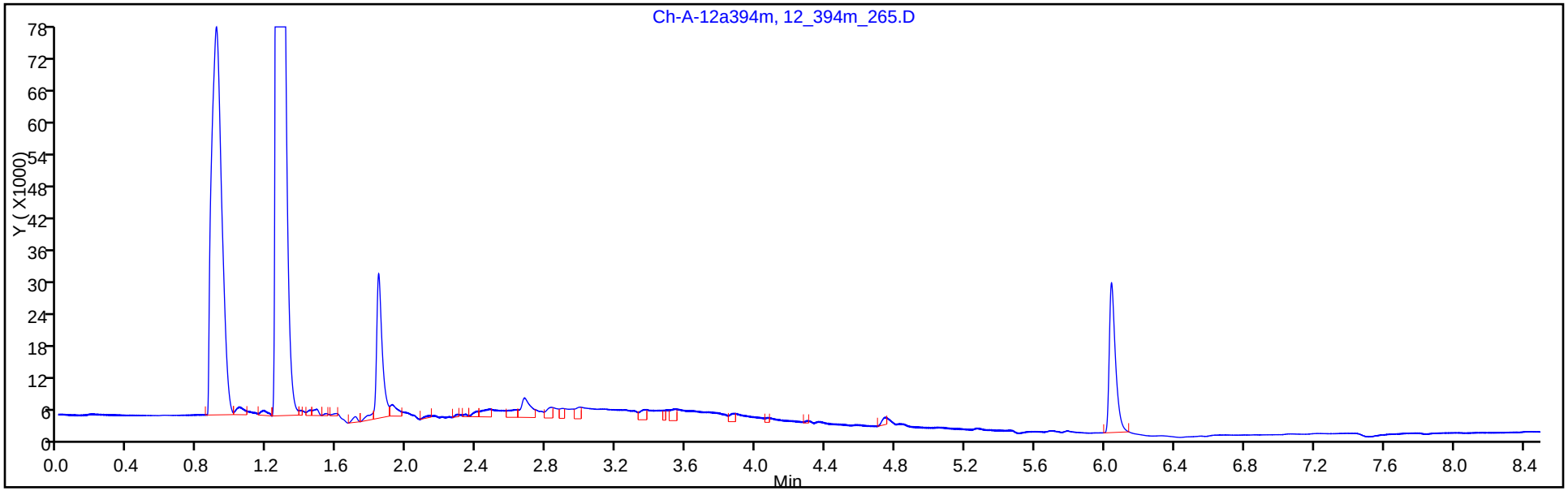
Report Date: 21-Jul-2017 10:33:32 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

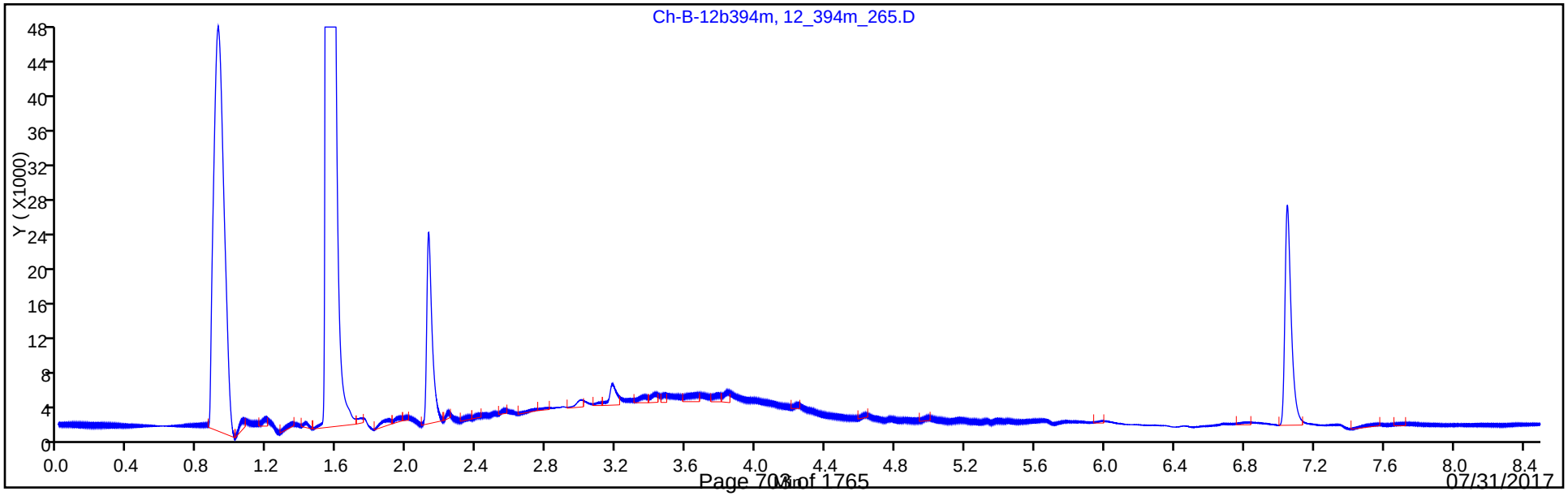
Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170720-64197.b\12_394m_265.D

Injection Date:	20-Jul-2017 19:44:29	Instrument ID:	HP5890-12	Operator ID:	BufTCHROM
Lims ID:	480-121321-B-5-A	Lab Sample ID:	480-121321-5	Worklist Smp#:	26
Client ID:	TP-05				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	5890-12 PCB IS	Limit Group:	GC - 8082A PCB IS ICAL		

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



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



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

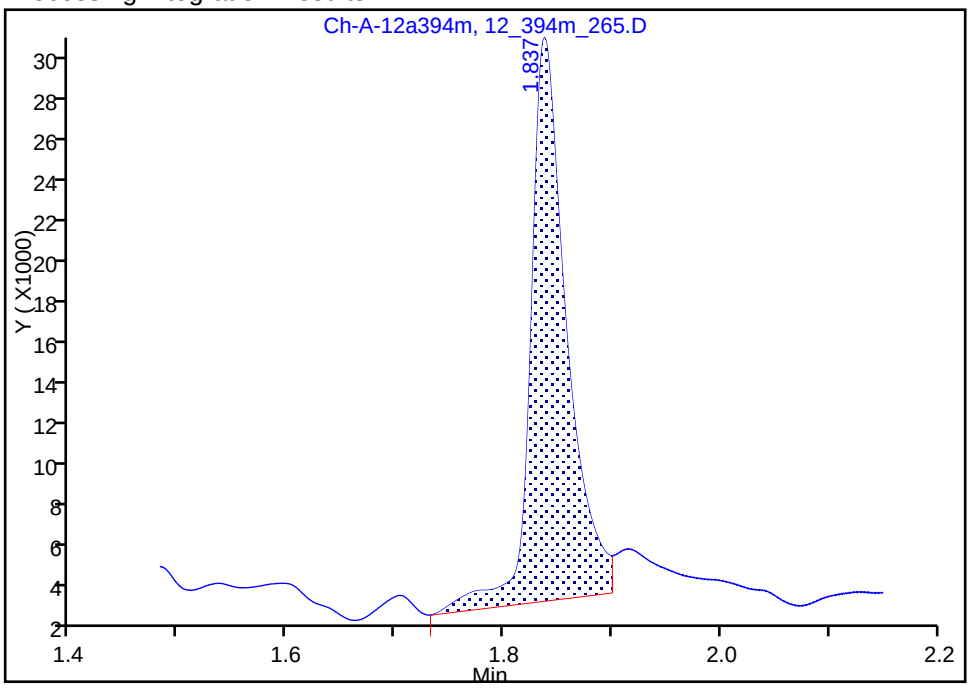
Data File:	\\ChromNA\Buffalo\ChromData\HP5890-12\20170720-64197.b\12_394m_265.D				
Injection Date:	20-Jul-2017 19:44:29	Instrument ID:	HP5890-12		
Lims ID:	480-121321-B-5-A	Lab Sample ID:	480-121321-5		
Client ID:	TP-05				
Operator ID:	BufTCHROM	ALS Bottle#:	0	Worklist Smp#:	26
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	5890-12 PCB IS	Limit Group:	GC - 8082A PCB IS ICAL		
Column:		Detector	Ch-A-7A136		

$ 6 Tetrachloro-m-xylene, CAS: 877-09-8

Signal: 1

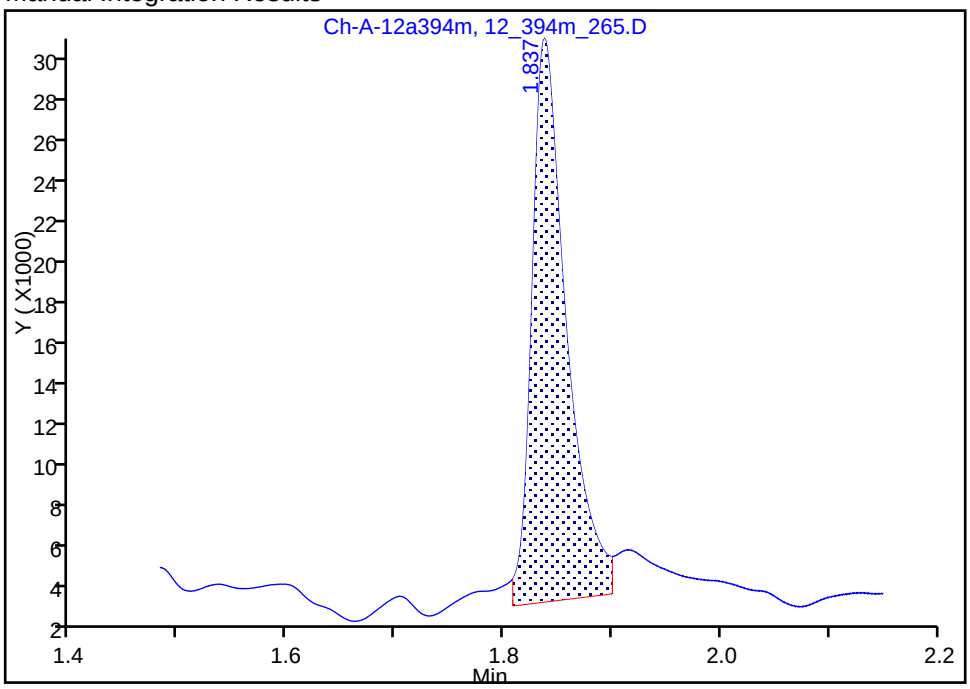
Processing Integration Results

RT: 1.84
Area: 63163
Amount: 0.029577
Amount Units: ng/uL



Manual Integration Results

RT: 1.84
Area: 60047
Amount: 0.028126
Amount Units: ng/uL



Reviewer: owenj, 21-Jul-2017 10:33:20

Audit Action: Split an Integrated Peak Audit Reason: Split Peak

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121321-1

SDG No.:

Client Sample ID: TP-05 | Lab Sample ID: 480-121321-5

Matrix: Solid | Lab File ID: 12_394m_265.D

Analysis Method: 8082A | Date Collected: 07/19/2017 14:00

Extraction Method: 3550C | Date Extracted: 07/20/2017 10:58

Sample wt/vol: 2.51(g) | Date Analyzed: 07/20/2017 19:44

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 21.0 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 367887 | Units: mg/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	126		60-154
2051-24-3	DCB Decachlorobiphenyl	115		65-174

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170720-64197.b\12_394m_265.D
Lims ID: 480-121321-B-5-A
Client ID: TP-05
Sample Type: Client
Inject. Date: 20-Jul-2017 19:44:29 ALS Bottle#: 0 Worklist Smp#: 26
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP5890-12

Method: \\ChromNA\Buffalo\ChromData\HP5890-12\20170720-64197.b\5890-12 PCB IS.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 21-Jul-2017 10:33:32 Calib Date: 13-May-2017 13:35:27
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170513-62487.b\12_390m_257.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK010

First Level Reviewer: owenj Date: 21-Jul-2017 10:33:32

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene						
1	1.258	1.258	0.000	1057318	0.5000	
2	1.545	1.546	-0.001	1037327	0.5000	
					RPD = 0.00	
$ 6 Tetrachloro-m-xylene						M
1	1.837	1.837	0.000	60047	0.0281	M
2	2.125	2.125	0.000	46921	0.0252	
					RPD = 10.86	
$ 15 DCB Decachlorobiphenyl						
1	6.041	6.041	0.000	69448	0.0250	
2	7.049	7.049	0.000	63825	0.0229	
					RPD = 8.77	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

COPPER_00070	Amount Added: 1.00	Units: g	Run Reagent
PCB IS 1B2NB_00037	Amount Added: 10.00	Units: uL	Run Reagent

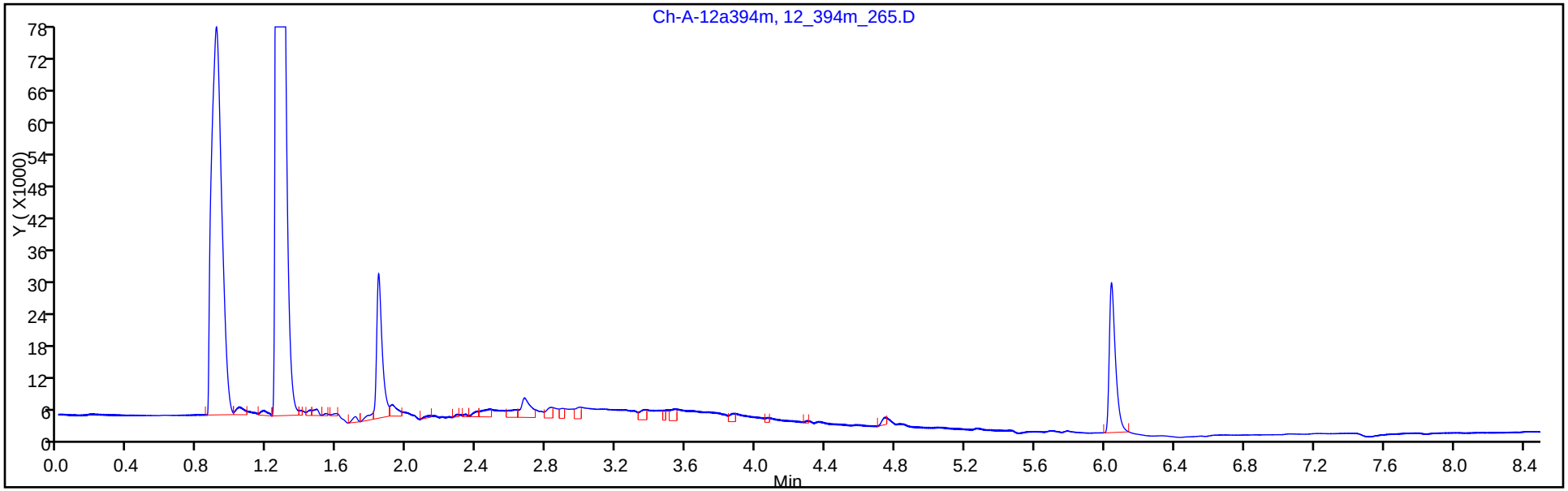
Report Date: 21-Jul-2017 10:33:32 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

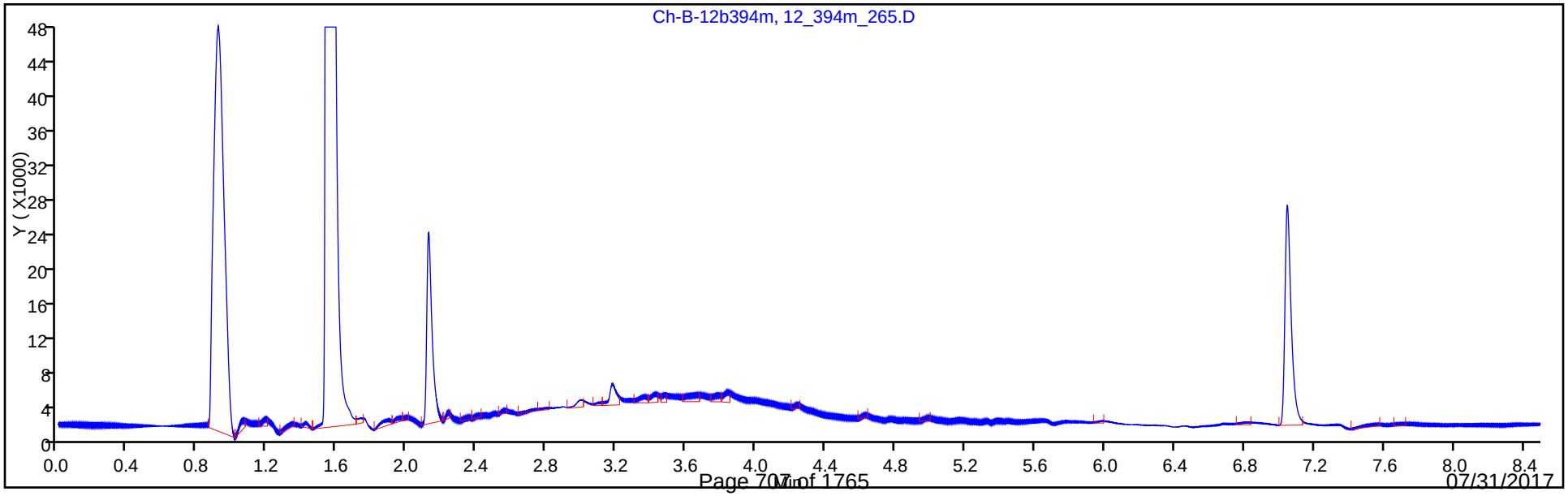
Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170720-64197.b\12_394m_265.D

Injection Date:	20-Jul-2017 19:44:29	Instrument ID:	HP5890-12	Operator ID:	BufTCHROM
Lims ID:	480-121321-B-5-A	Lab Sample ID:	480-121321-5	Worklist Smp#:	26
Client ID:	TP-05				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	5890-12 PCB IS	Limit Group:	GC - 8082A PCB IS ICAL		

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



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



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121321-1

SDG No.:

Client Sample ID: DUP | Lab Sample ID: 480-121321-6

Matrix: Solid | Lab File ID: 12_394m_266.D

Analysis Method: 8082A | Date Collected: 07/19/2017 00:00

Extraction Method: 3550C | Date Extracted: 07/20/2017 10:58

Sample wt/vol: 2.80(g) | Date Analyzed: 07/20/2017 19:59

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.: 367887 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.22	0.042
11104-28-2	PCB-1221	ND		0.22	0.042
11141-16-5	PCB-1232	ND		0.22	0.042
53469-21-9	PCB-1242	ND		0.22	0.042
12672-29-6	PCB-1248	ND		0.22	0.042
11097-69-1	PCB-1254	ND		0.22	0.10
11096-82-5	PCB-1260	ND		0.22	0.10
37324-23-5	PCB-1262	ND		0.22	0.10
11100-14-4	PCB-1268	ND		0.22	0.10

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	142		60-154
2051-24-3	DCB Decachlorobiphenyl	120		65-174

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170720-64197.b\12_394m_266.D
Lims ID: 480-121321-B-6-A
Client ID: DUP
Sample Type: Client
Inject. Date: 20-Jul-2017 19:59:50 ALS Bottle#: 0 Worklist Smp#: 27
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP5890-12

Method: \\ChromNA\Buffalo\ChromData\HP5890-12\20170720-64197.b\5890-12 PCB IS.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 21-Jul-2017 10:33:39 Calib Date: 13-May-2017 13:35:27
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170513-62487.b\12_390m_257.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK010

First Level Reviewer: owenj Date: 21-Jul-2017 10:33:39

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene						
1	1.257	1.258	-0.001	1036283	0.5000	
2	1.545	1.546	-0.001	995546	0.5000	
					RPD = 0.00	
$ 6 Tetrachloro-m-xylene						
1	1.837	1.837	0.000	59528	0.0284	
2	2.123	2.125	-0.002	46304	0.0259	
					RPD = 9.22	
$ 15 DCB Decachlorobiphenyl						
1	6.040	6.041	-0.001	65442	0.0241	
2	7.048	7.049	-0.001	60732	0.0227	
					RPD = 5.70	

Reagents:

COPPER_00070 Amount Added: 1.00 Units: g Run Reagent
PCB IS 1B2NB_00037 Amount Added: 10.00 Units: uL Run Reagent

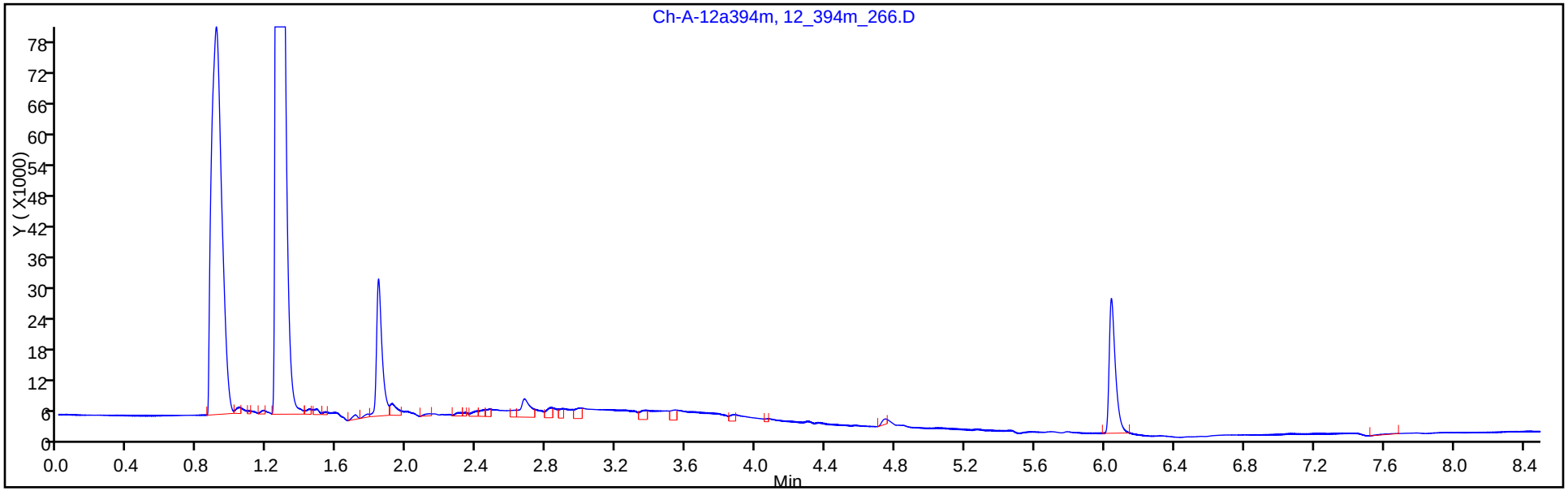
Report Date: 21-Jul-2017 10:33:40 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

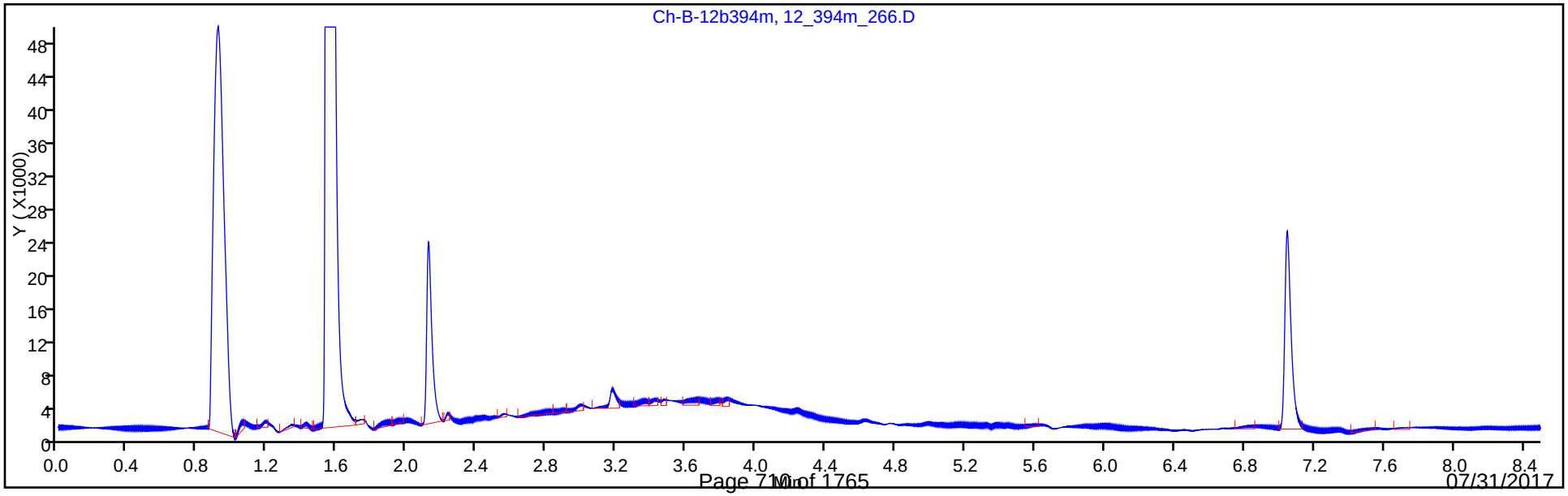
Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170720-64197.b\12_394m_266.D

Injection Date:	20-Jul-2017 19:59:50	Instrument ID:	HP5890-12	Operator ID:	BufTCHROM
Lims ID:	480-121321-B-6-A	Lab Sample ID:	480-121321-6	Worklist Smp#:	27
Client ID:	DUP				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	5890-12 PCB IS	Limit Group:	GC - 8082A PCB IS ICAL		

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



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



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121321-1

SDG No.:

Client Sample ID: DUP | Lab Sample ID: 480-121321-6

Matrix: Solid | Lab File ID: 12_394m_266.D

Analysis Method: 8082A | Date Collected: 07/19/2017 00:00

Extraction Method: 3550C | Date Extracted: 07/20/2017 10:58

Sample wt/vol: 2.80(g) | Date Analyzed: 07/20/2017 19:59

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.: 367887 | Units: mg/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	130		60-154
2051-24-3	DCB Decachlorobiphenyl	114		65-174

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170720-64197.b\12_394m_266.D
Lims ID: 480-121321-B-6-A
Client ID: DUP
Sample Type: Client
Inject. Date: 20-Jul-2017 19:59:50 ALS Bottle#: 0 Worklist Smp#: 27
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP5890-12

Method: \\ChromNA\Buffalo\ChromData\HP5890-12\20170720-64197.b\5890-12 PCB IS.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 21-Jul-2017 10:33:39 Calib Date: 13-May-2017 13:35:27
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170513-62487.b\12_390m_257.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK010

First Level Reviewer: owenj Date: 21-Jul-2017 10:33:39

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene						
1	1.257	1.258	-0.001	1036283	0.5000	
2	1.545	1.546	-0.001	995546	0.5000	
					RPD = 0.00	
$ 6 Tetrachloro-m-xylene						
1	1.837	1.837	0.000	59528	0.0284	
2	2.123	2.125	-0.002	46304	0.0259	
					RPD = 9.22	
$ 15 DCB Decachlorobiphenyl						
1	6.040	6.041	-0.001	65442	0.0241	
2	7.048	7.049	-0.001	60732	0.0227	
					RPD = 5.70	

Reagents:

COPPER_00070 Amount Added: 1.00 Units: g Run Reagent
PCB IS 1B2NB_00037 Amount Added: 10.00 Units: uL Run Reagent

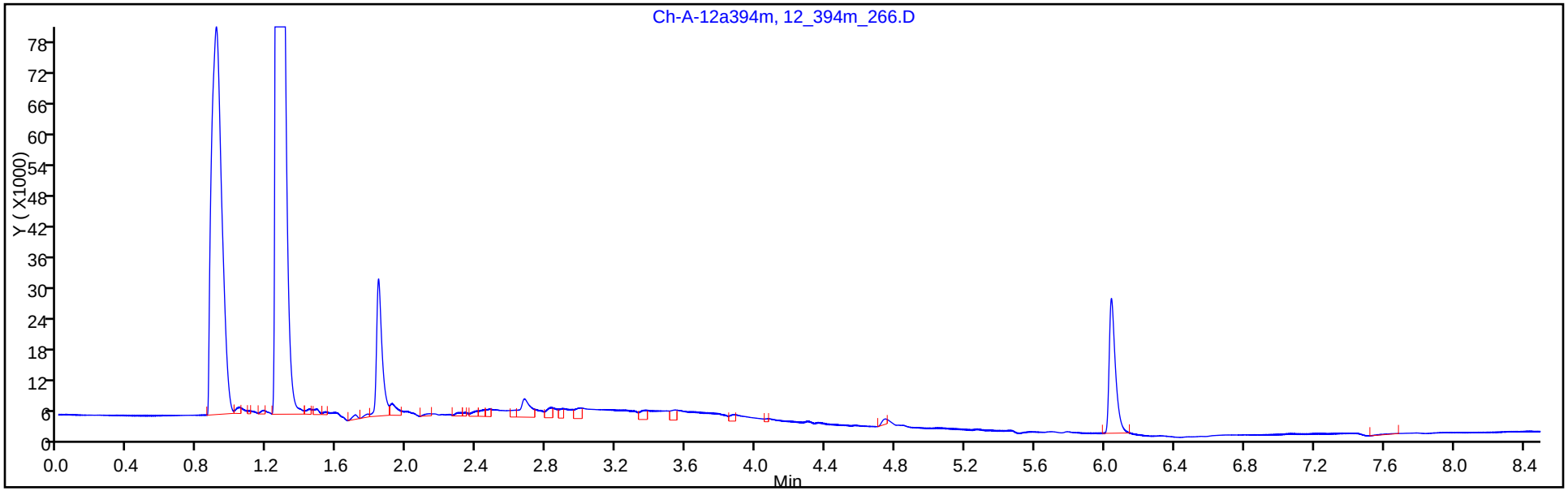
Report Date: 21-Jul-2017 10:33:40 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

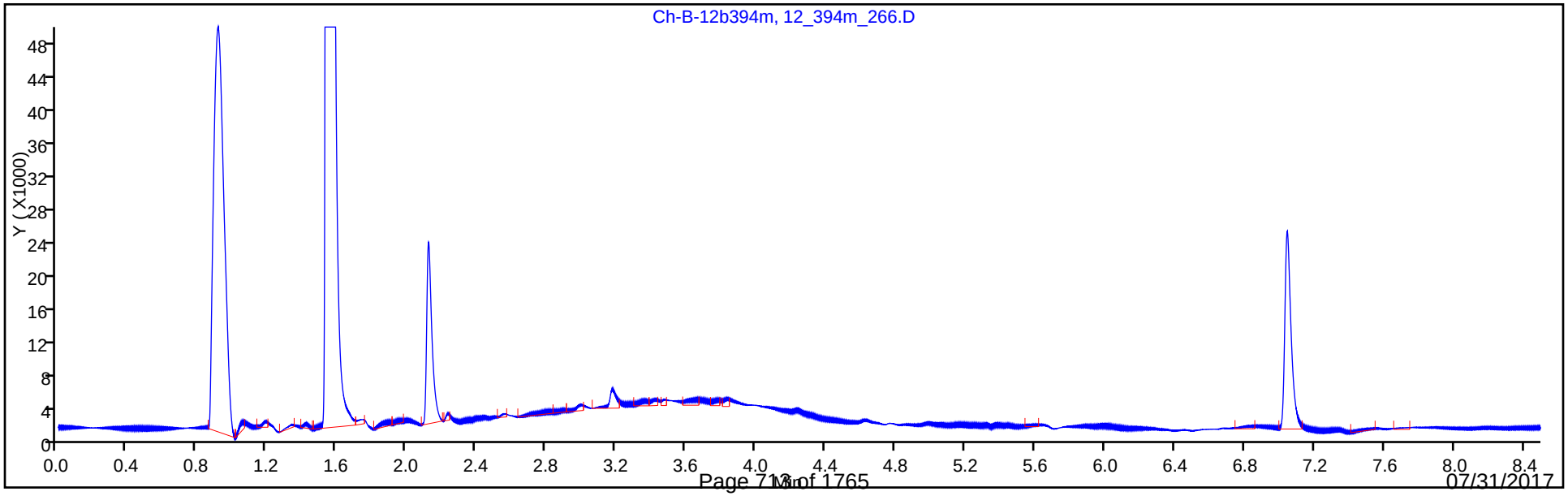
Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170720-64197.b\12_394m_266.D

Injection Date:	20-Jul-2017 19:59:50	Instrument ID:	HP5890-12	Operator ID:	BufTCHROM
Lims ID:	480-121321-B-6-A	Lab Sample ID:	480-121321-6	Worklist Smp#:	27
Client ID:	DUP				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	5890-12 PCB IS	Limit Group:	GC - 8082A PCB IS ICAL		

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



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



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

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1 Analy Batch No.: 356902

SDG No.:

Instrument ID: HP5890-12 GC Column: ZB-5 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/11/2017 15:46 Calibration End Date: 05/11/2017 18:19 Calibration ID: 30527

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-356902/23	12_390m_220.D
Level 2	IC 480-356902/22	12_390m_219.D
Level 3	IC 480-356902/21	12_390m_218.D
Level 4	IC 480-356902/20	12_390m_217.D
Level 5	ICIS 480-356902/19	12_390m_216.D
Level 6	IC 480-356902/18	12_390m_215.D
Level 7	IC 480-356902/17	12_390m_214.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								
PCB-1016 Peak 1	0.0245 0.0270	0.0307 0.0238	0.0266	0.0297	0.0281	Ave		0.0272				9.3		20.0			
PCB-1016 Peak 2	0.0245 0.0295	0.0310 0.0273	0.0289	0.0313	0.0302	Ave		0.0290				8.2		20.0			
PCB-1016 Peak 3	0.0947 0.0962	0.1056 0.0902	0.1022	0.1034	0.0991	Ave		0.0988				5.5		20.0			
PCB-1016 Peak 4	0.0591 0.0392	0.0479 0.0366	0.0416	0.0423	0.0399	Lin1	0.0005	0.0375							0.9990		0.9900
PCB-1016 Peak 5	0.0300 0.0246	0.0288 0.0229	0.0234	0.0247	0.0242	Lin1	0.0002	0.0234							0.9990		0.9900
PCB-1260 Peak 1	0.1066 0.0548	0.0783 0.0544	0.0732	0.0691	0.0604	Lin1	0.0013	0.0548							0.9970		0.9900
PCB-1260 Peak 2	0.1113 0.0786	0.0828 0.0748	0.0867	0.0829	0.0784	Lin1	0.0007	0.0760							0.9990		0.9900
PCB-1260 Peak 3	0.0386 0.0439	0.0433 0.0412	0.0473	0.0474	0.0445	Ave		0.0437				7.2		20.0			
PCB-1260 Peak 4	0.0250 0.0371	0.0380 0.0360	0.0370	0.0358	0.0367	Lin1	0	0.0366							0.9990		0.9900
PCB-1260 Peak 5	0.0836 0.0501	0.0494 0.0492	0.0513	0.0488	0.0486	Lin1	0.0004	0.0487							0.9990		0.9900
Tetrachloro-m-xylene	0.7647 1.0454	0.8733 1.0044	0.8271	0.9752	0.9808	Lin1	0	1.0160							0.9990		0.9900
DCB Decachlorobiphenyl	1.3330 1.3312	1.2777 1.3220	1.3546	1.2758	1.2935	Ave		1.3125				2.3		20.0			

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

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

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1 Analy Batch No.: 356902

SDG No.:

Instrument ID: HP5890-12 GC Column: ZB-5 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/11/2017 15:46 Calibration End Date: 05/11/2017 18:19 Calibration ID: 30527

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-356902/23	12_390m_220.D
Level 2	IC 480-356902/22	12_390m_219.D
Level 3	IC 480-356902/21	12_390m_218.D
Level 4	IC 480-356902/20	12_390m_217.D
Level 5	ICIS 480-356902/19	12_390m_216.D
Level 6	IC 480-356902/18	12_390m_215.D
Level 7	IC 480-356902/17	12_390m_214.D

ANALYTE	IS REF	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	BNB	Ave	1232 66140	3817 113721	6478	15036	34907	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1016 Peak 2	BNB	Ave	1234 72358	3863 130483	7014	15855	37488	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1016 Peak 3	BNB	Ave	4764 235761	13140 430879	24849	52434	123085	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1016 Peak 4	BNB	Lin1	2976 96162	5959 175066	10105	21437	49584	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1016 Peak 5	BNB	Lin1	1510 60376	3582 109435	5681	12533	30097	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1260 Peak 1	BNB	Lin1	5364 134181	9740 260007	17798	35011	75072	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1260 Peak 2	BNB	Lin1	5599 192588	10306 357275	21079	42034	97345	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1260 Peak 3	BNB	Ave	1941 107623	5394 196587	11503	24020	55281	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1260 Peak 4	BNB	Lin1	1257 91027	4723 171815	9001	18160	45564	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1260 Peak 5	BNB	Lin1	4207 122865	6147 234875	12480	24761	60333	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
Tetrachloro-m-xylene	BNB	Lin1	962 64039	2717 119949	5027	12358	30459	0.000500 0.0250	0.00125 0.0500	0.00250	0.00500	0.0125
DCB Decachlorobiphenyl	BNB	Ave	1677 81549	3975 157874	8233	16167	40170	0.000500 0.0250	0.00125 0.0500	0.00250	0.00500	0.0125

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170511-62436.b\12_390m_214.D
Lims ID: IC 7
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 11-May-2017 15:46:31 ALS Bottle#: 0 Worklist Smp#: 17
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP5890-12
Sublist: chrom-5890-12 PCB IS*sub1

Method: \\ChromNA\Buffalo\ChromData\HP5890-12\20170511-62436.b\5890-12 PCB IS.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 15-May-2017 13:50:46 Calib Date: 12-May-2017 17:50:21
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170511-62436.b\12_390m_240.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK026

First Level Reviewer: owenj Date: 15-May-2017 13:50:39

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.318	1.335	-0.017	1194213	0.5000	0.5000	
2	1.616	1.603	0.013	1059943	0.5000	0.5000	
						RPD = 0.00	
$ 6 Tetrachloro-m-xylene							M
1	1.916	1.892	0.024	119949	0.0500	0.0496	M
2	2.205	2.202	0.003	98537	0.0500	0.0518	
						RPD = 4.26	
9 PCB-1016							M
1	2.120	2.123	-0.003	113721	2.00	1.75	M
1	2.503	2.521	-0.018	130483	2.00	1.89	M
1	2.676	2.681	-0.005	430879	2.00	1.83	M
1	2.749	2.758	-0.009	175066	2.00	1.94	M
1	2.802	2.803	-0.001	109435	2.00	1.95	M
		Average of Peak Amounts =				1.87	
2	2.613	2.627	-0.014	83522	2.00	1.96	
2	2.933	2.938	-0.005	170236	2.00	1.93	M
2	3.146	3.146	0.000	109428	2.00	1.98	M
2	3.245	3.249	-0.004	338084	2.00	1.99	M
2	3.363	3.364	-0.001	139181	2.00	1.96	M
		Average of Peak Amounts =				1.96	
						RPD = 4.91	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
12 PCB-1260							M
1	4.186	4.185	0.001	260007	2.00	1.96	M
1	4.404	4.402	0.002	357275	2.00	1.96	M
1	4.530	4.563	-0.033	196587	2.00	1.88	M
1	4.713	4.711	0.002	171815	2.00	1.97	M
1	5.149	5.146	0.003	234875	2.00	2.01	M
		Average of Peak Amounts =				1.96	
2	5.129	5.128	0.001	216459	2.00	1.96	M
2	5.449	5.448	0.001	181227	2.00	1.98	M
2	5.517	5.515	0.002	135872	2.00	1.98	M
2	5.583	5.581	0.002	483176	2.00	1.97	M
2	5.956	5.954	0.002	321662	2.00	1.99	M
		Average of Peak Amounts =				1.98	
						RPD = 1.00	
$ 15 DCB Decachlorobiphenyl							
1	6.193	6.187	0.006	157874	0.0500	0.0504	
2	7.247	7.248	-0.001	140307	0.0500	0.0494	
						RPD = 1.89	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

1660sur/is2.0_00005 Amount Added: 1.00 Units: mL

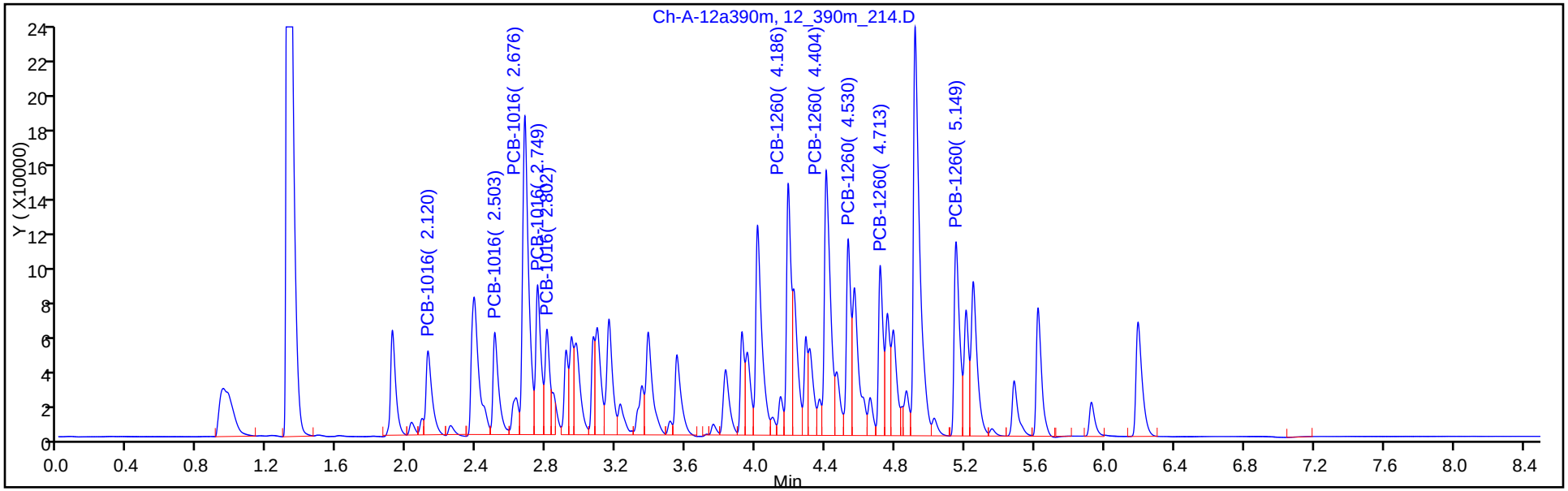
Report Date: 15-May-2017 13:50:47 Chrom Revision: 2.2 18-Apr-2017 07:43:58

TestAmerica Buffalo

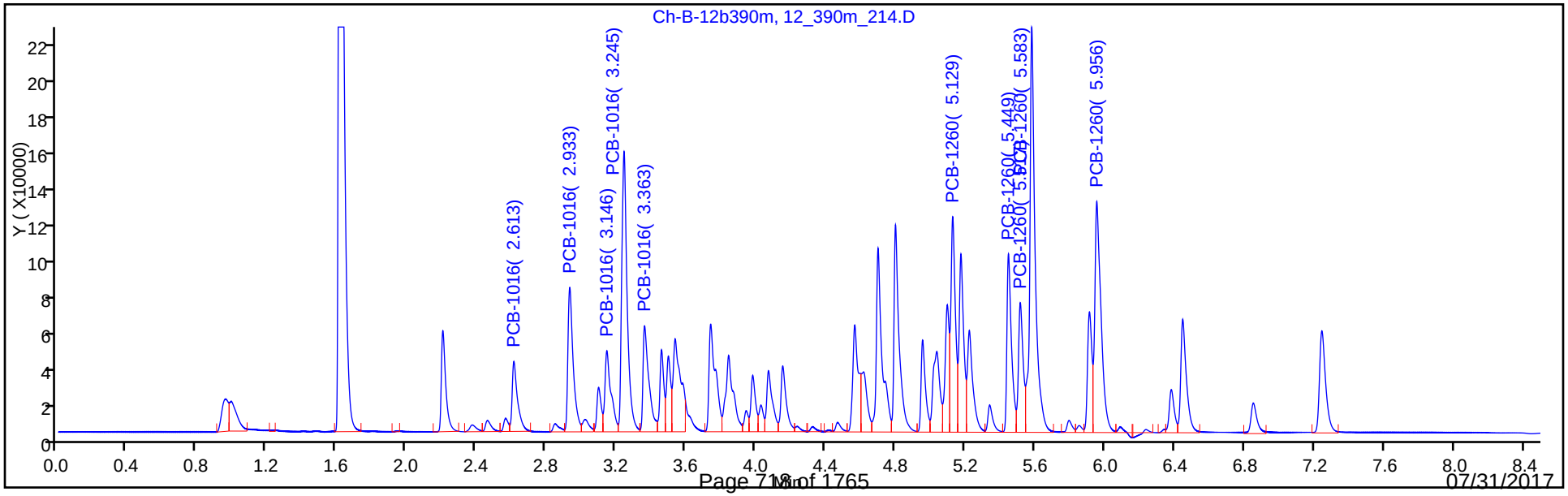
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Injection Date:	11-May-2017 15:46:31	Instrument ID:	HP5890-12	Operator ID:	BufTCHROM
Lims ID:	IC 7			Worklist Smp#:	17
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	5890-12 PCB IS	Limit Group:	GC - 8082A PCB IS ICAL		

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



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



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

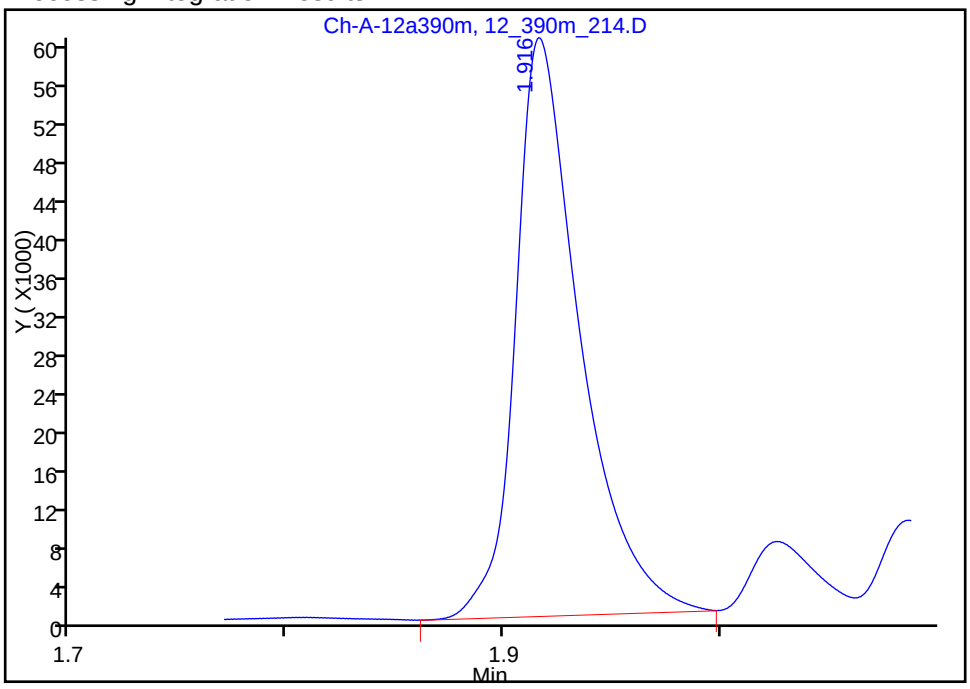
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Injection Date: 11-May-2017 15:46:31 Instrument ID: HP5890-12
Lims ID: IC 7
Client ID:
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 17
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 5890-12 PCB IS Limit Group: GC - 8082A PCB IS ICAL
Column: Detector Ch-A-7A136

$ 6 Tetrachloro-m-xylene, CAS: 877-09-8

Signal: 1

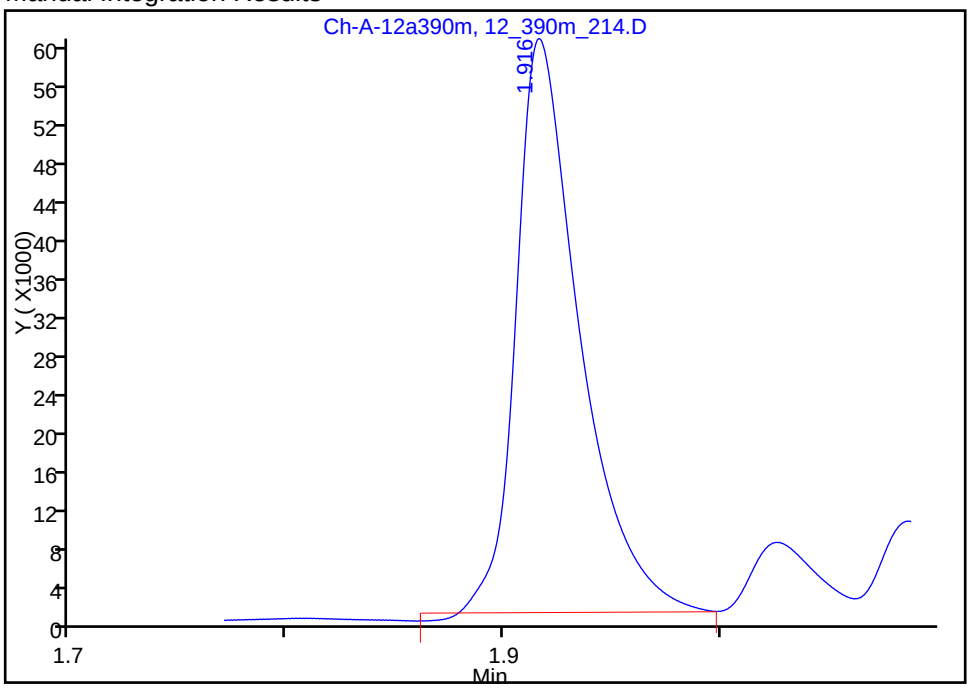
Processing Integration Results

RT: 1.92
Area: 123311
Amount: 0.050226
Amount Units: ng/uL



Manual Integration Results

RT: 1.92
Area: 119949
Amount: 0.049607
Amount Units: ng/uL



Reviewer: owenj, 11-May-2017 16:53:28
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

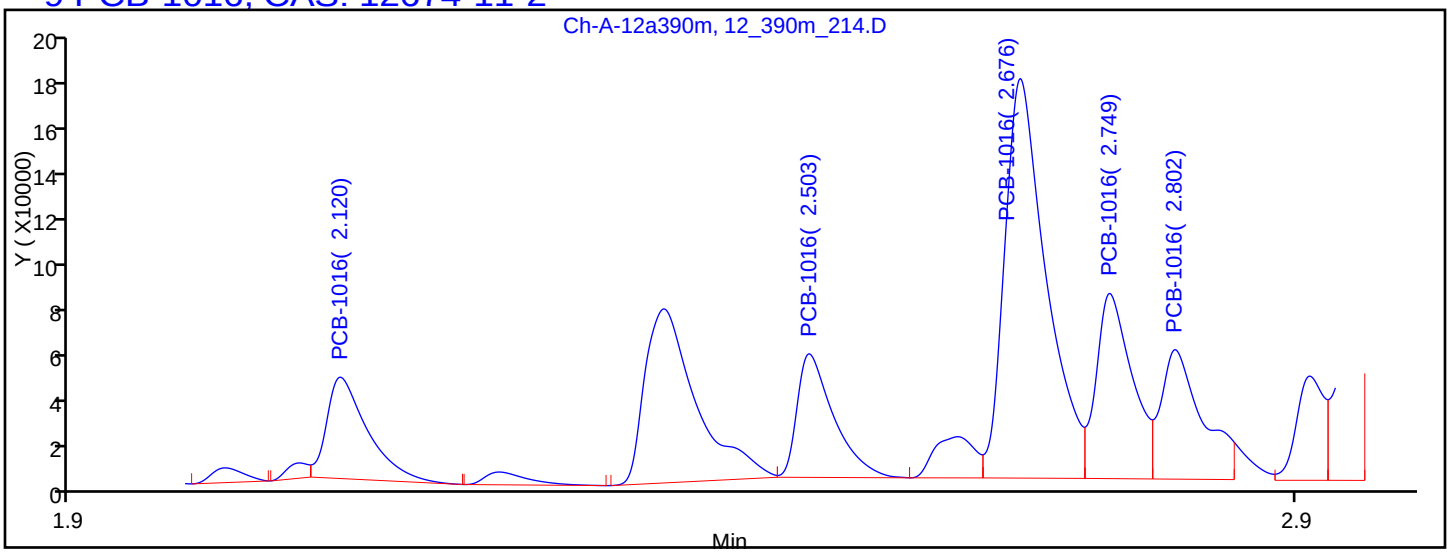
Report Date: 15-May-2017 13:50:47 Chrom Revision: 2.2 18-Apr-2017 07:43:58

TestAmerica Buffalo

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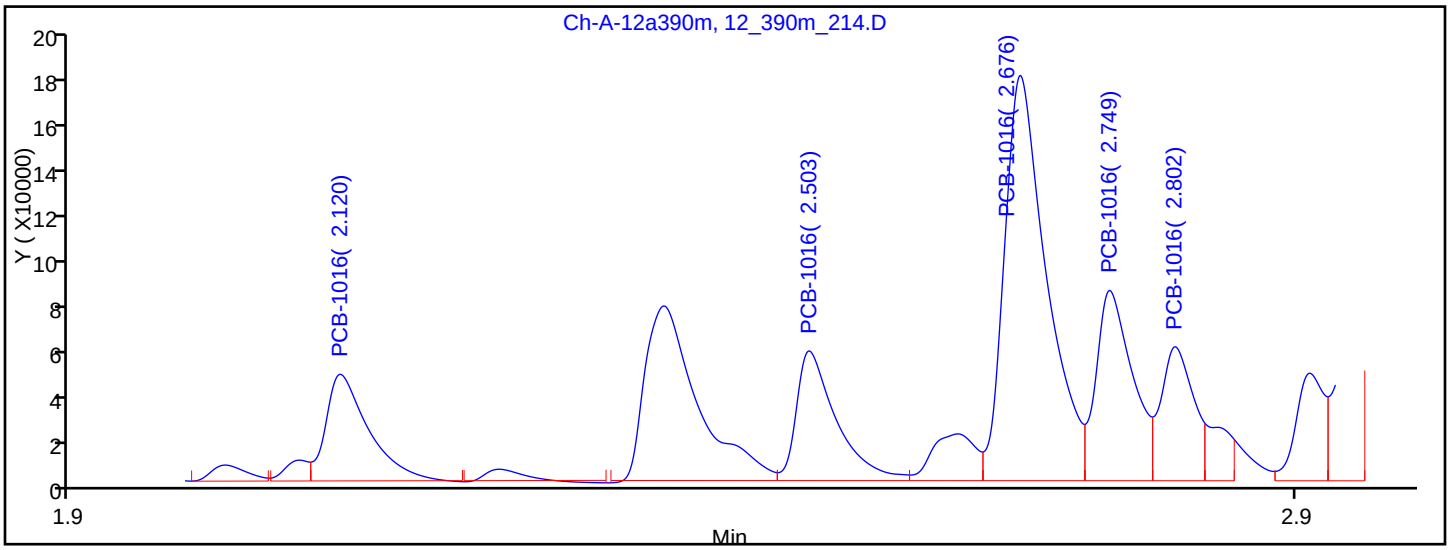
Injection Date:	11-May-2017 15:46:31	Instrument ID:	HP5890-12		
Lims ID:	IC 7				
Client ID:					
Operator ID:	BufTCHROM	ALS Bottle#:	0	Worklist Smp#:	17
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	5890-12 PCB IS	Limit Group:	GC - 8082A PCB IS ICAL		
Column:		Detector	Ch-A-7A136		

9 PCB-1016, CAS: 12674-11-2



Processing Integration Results

2.120	Response = 104592
2.503	Response = 113817
2.676	Response = 419232
2.749	Response = 168052
2.802	Response = 134620



Manual Integration Results

2.120	Response = 113721	M
2.503	Response = 130483	M
2.676	Response = 430879	M
2.749	Response = 175066	M
2.802	Response = 109435	M

Reviewer: owenj, 11-May-2017 16:53:27

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Report Date: 15-May-2017 13:50:47 Chrom Revision: 2.2 18-Apr-2017 07:43:58

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170511-62436.b\12_390m_214.D

Injection Date: 11-May-2017 15:46:31 Instrument ID: HP5890-12

Lims ID: IC 7

Client ID:

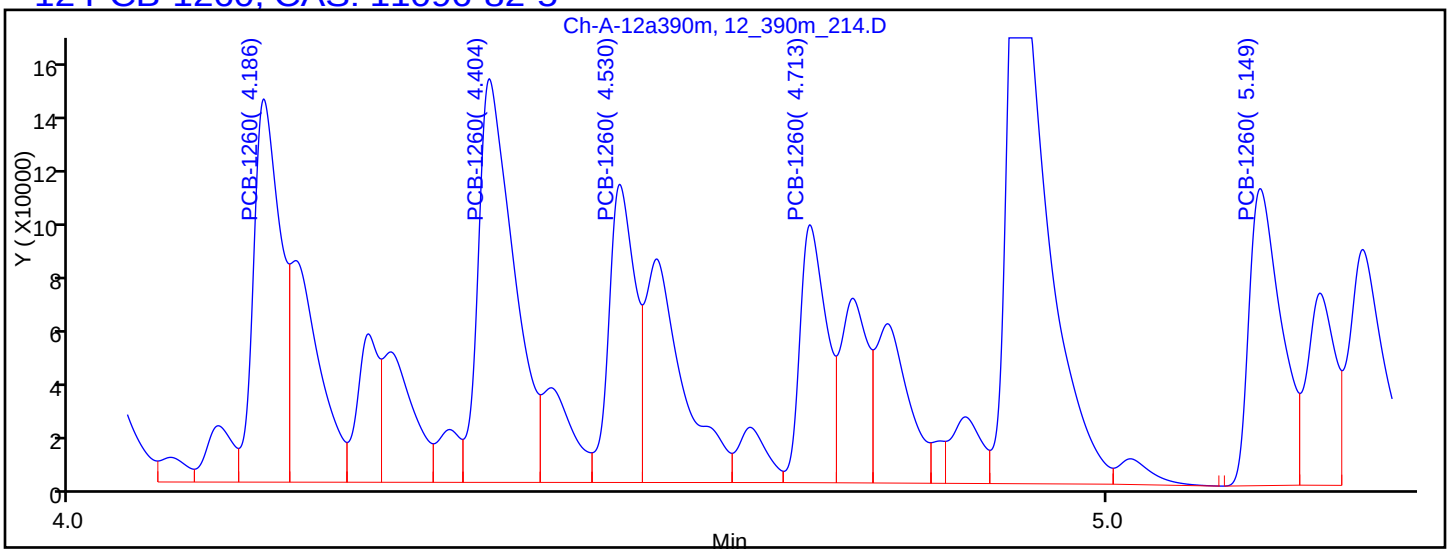
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 17

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 5890-12 PCB IS Limit Group: GC - 8082A PCB IS ICAL

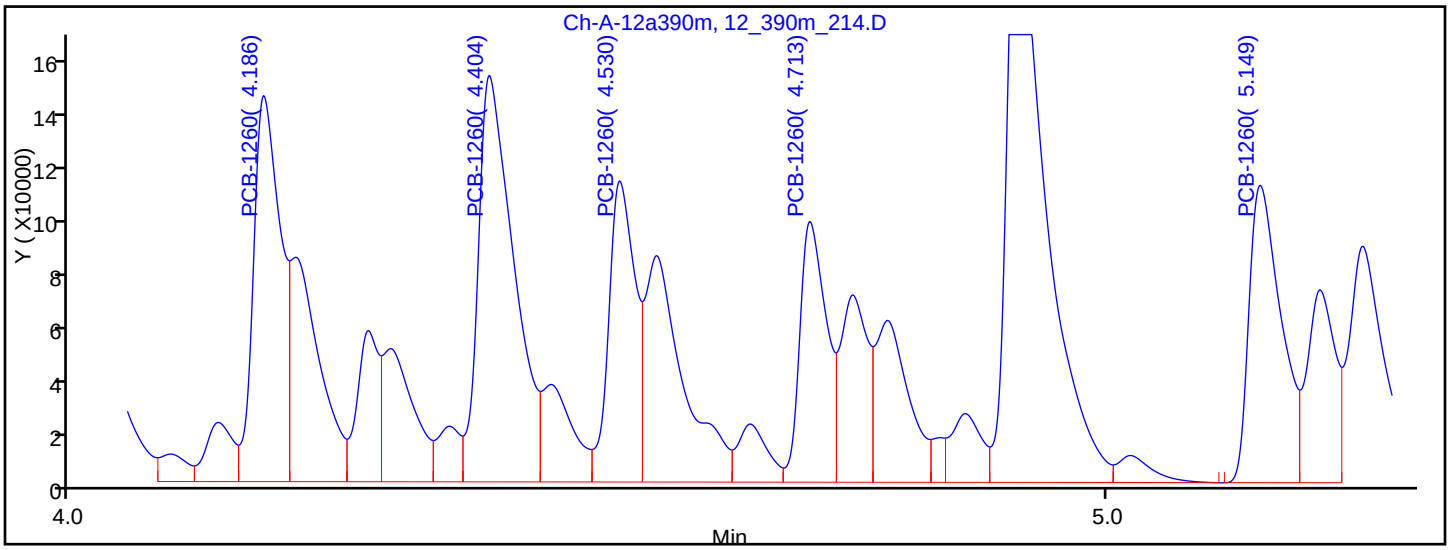
Column: Detector Ch-A-7A136

12 PCB-1260, CAS: 11096-82-5



Processing Integration Results

4.186	Response = 256982
4.404	Response = 352715
4.530	Response = 193580
4.713	Response = 168649
5.149	Response = 234404



Manual Integration Results

4.186	Response = 260007	M
4.404	Response = 357275	M
4.530	Response = 196587	M
4.713	Response = 171815	M
5.149	Response = 234875	M

Reviewer: owenj, 11-May-2017 16:53:25

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170511-62436.b\12_390m_215.D
Lims ID: IC 6
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 11-May-2017 16:01:52 ALS Bottle#: 0 Worklist Smp#: 18
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP5890-12
Sublist: chrom-5890-12 PCB IS*sub1

Method: \\ChromNA\Buffalo\ChromData\HP5890-12\20170511-62436.b\5890-12 PCB IS.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 15-May-2017 13:50:50 Calib Date: 12-May-2017 17:50:21
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170511-62436.b\12_390m_240.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK026

First Level Reviewer: owenj Date: 12-May-2017 15:33:10

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.318	1.335	-0.017	1225188	0.5000	0.5000	
2	1.616	1.603	0.013	1094893	0.5000	0.5000	
						RPD = 0.00	
$ 6 Tetrachloro-m-xylene							M
1	1.917	1.892	0.025	64039	0.0250	0.0259	M
2	2.207	2.202	0.005	48270	0.0250	0.0246	
						RPD = 5.18	
9 PCB-1016							M
1	2.121	2.123	-0.002	66140	1.00	0.99	M
1	2.504	2.521	-0.017	72358	1.00	1.02	M
1	2.677	2.681	-0.004	235761	1.00	0.9741	M
1	2.750	2.758	-0.008	96162	1.00	1.03	M
1	2.803	2.803	0.000	60376	1.00	1.04	M
		Average of Peak Amounts =				1.01	
2	2.615	2.627	-0.012	44352	1.00	1.00	
2	2.935	2.938	-0.003	92451	1.00	1.01	M
2	3.147	3.146	0.001	56659	1.00	1.00	M
2	3.246	3.249	-0.003	176641	1.00	1.00	M
2	3.364	3.364	0.000	72644	1.00	0.99	M
		Average of Peak Amounts =				1.00	
						RPD = 1.27	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
12 PCB-1260							M
1	4.187	4.185	0.002	134181	1.00	0.9760	M
1	4.404	4.402	0.002	192588	1.00	1.03	M
1	4.530	4.563	-0.033	107623	1.00	1.00	M
1	4.715	4.711	0.004	91027	1.00	1.02	M
1	5.149	5.146	0.003	122865	1.00	1.02	M
		Average of Peak Amounts =				1.01	
2	5.130	5.128	0.002	115663	1.00	1.01	
2	5.451	5.448	0.003	95144	1.00	1.00	
2	5.517	5.515	0.002	71243	1.00	1.00	
2	5.583	5.581	0.002	255646	1.00	1.01	
2	5.956	5.954	0.002	167370	1.00	1.00	
		Average of Peak Amounts =				1.00	
						RPD = 0.38	
$ 15 DCB Decachlorobiphenyl							M
1	6.194	6.187	0.007	81549	0.0250	0.0254	M
2	7.247	7.248	-0.001	74030	0.0250	0.0252	
						RPD = 0.64	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

1660sur/is1.0_00006 Amount Added: 1.00 Units: mL

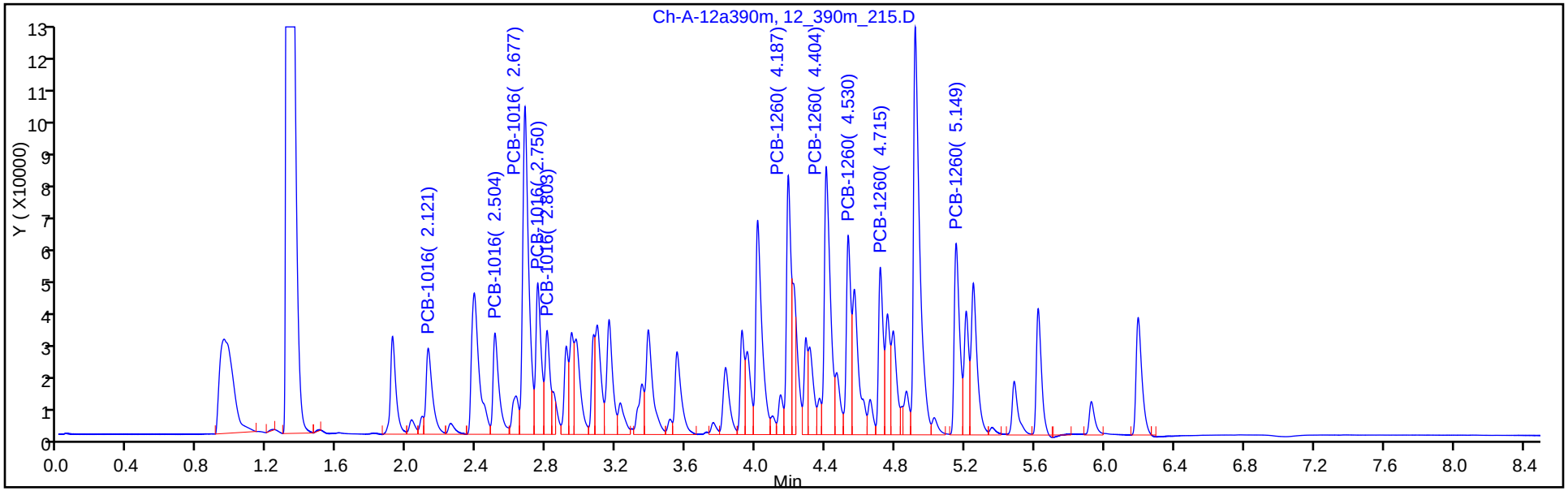
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TestAmerica Buffalo

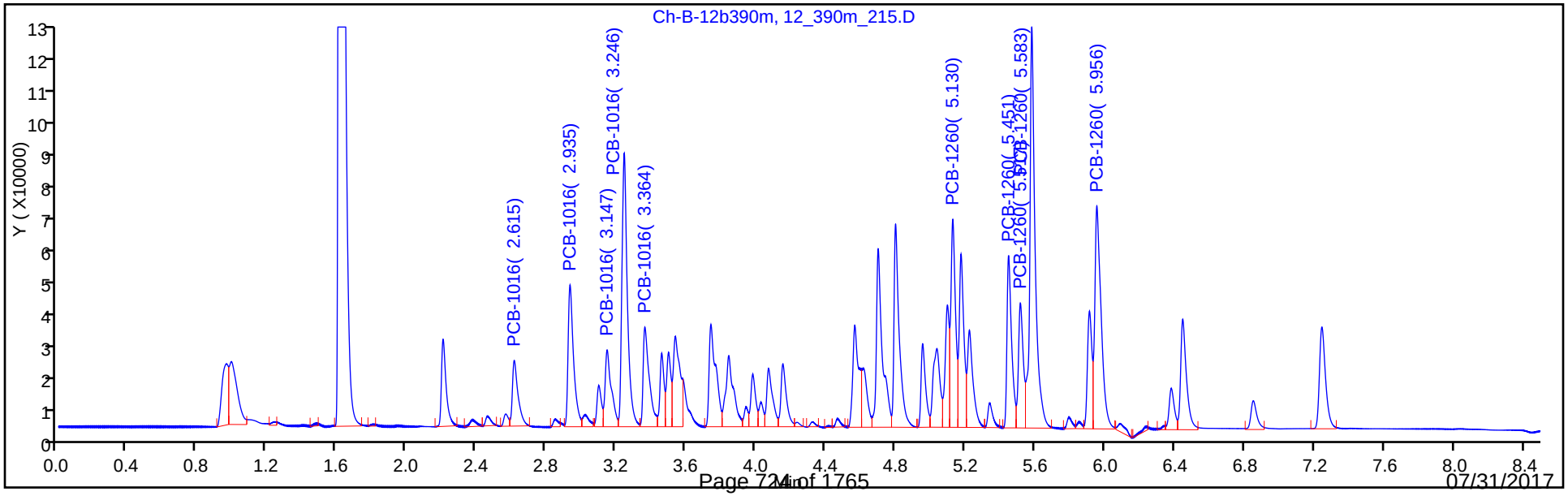
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Injection Date:	11-May-2017 16:01:52	Instrument ID:	HP5890-12	Operator ID:	BufTCHROM
Lims ID:	IC 6			Worklist Smp#:	18
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	5890-12 PCB IS	Limit Group:	GC - 8082A PCB IS ICAL		

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



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



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

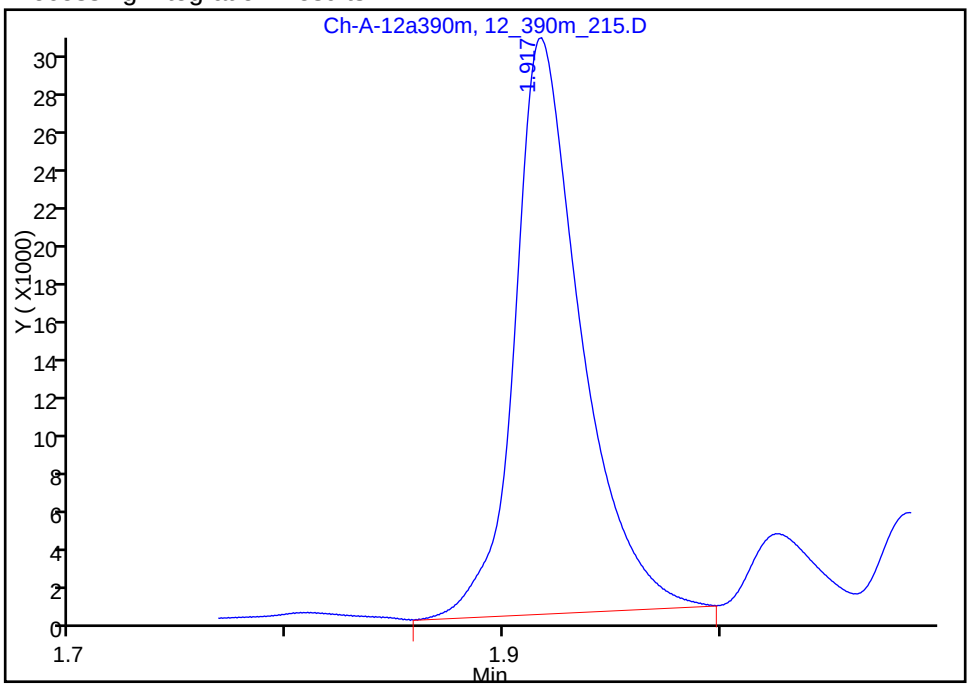
Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170511-62436.b\12_390m_215.D
Injection Date: 11-May-2017 16:01:52 Instrument ID: HP5890-12
Lims ID: IC 6
Client ID:
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 18
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 5890-12 PCB IS Limit Group: GC - 8082A PCB IS ICAL
Column: Detector Ch-A-7A136

$ 6 Tetrachloro-m-xylene, CAS: 877-09-8

Signal: 1

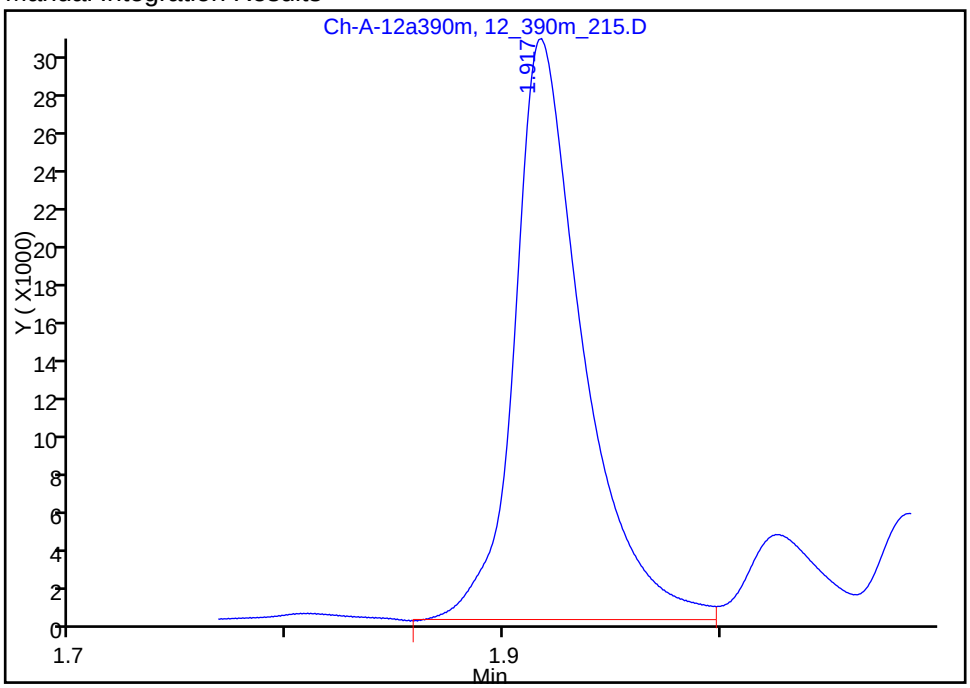
Processing Integration Results

RT: 1.92
Area: 61733
Amount: 0.025221
Amount Units: ng/uL



Manual Integration Results

RT: 1.92
Area: 64039
Amount: 0.025900
Amount Units: ng/uL



Reviewer: owenj, 12-May-2017 15:32:57
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

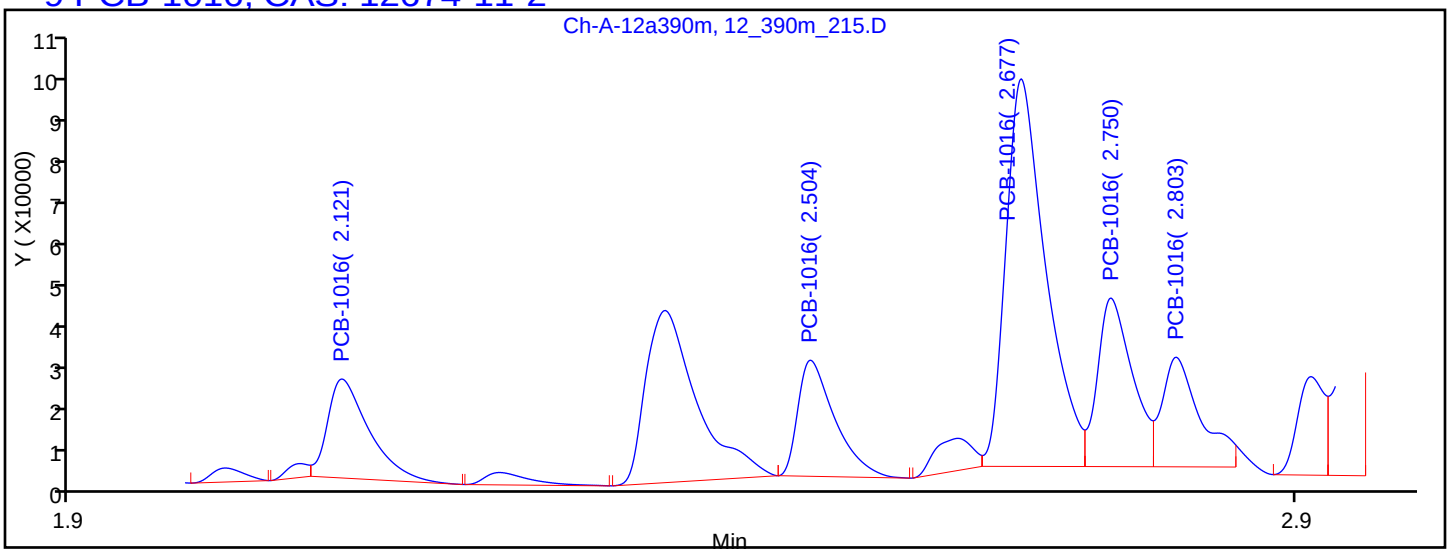
Report Date: 15-May-2017 13:50:51 Chrom Revision: 2.2 18-Apr-2017 07:43:58

TestAmerica Buffalo

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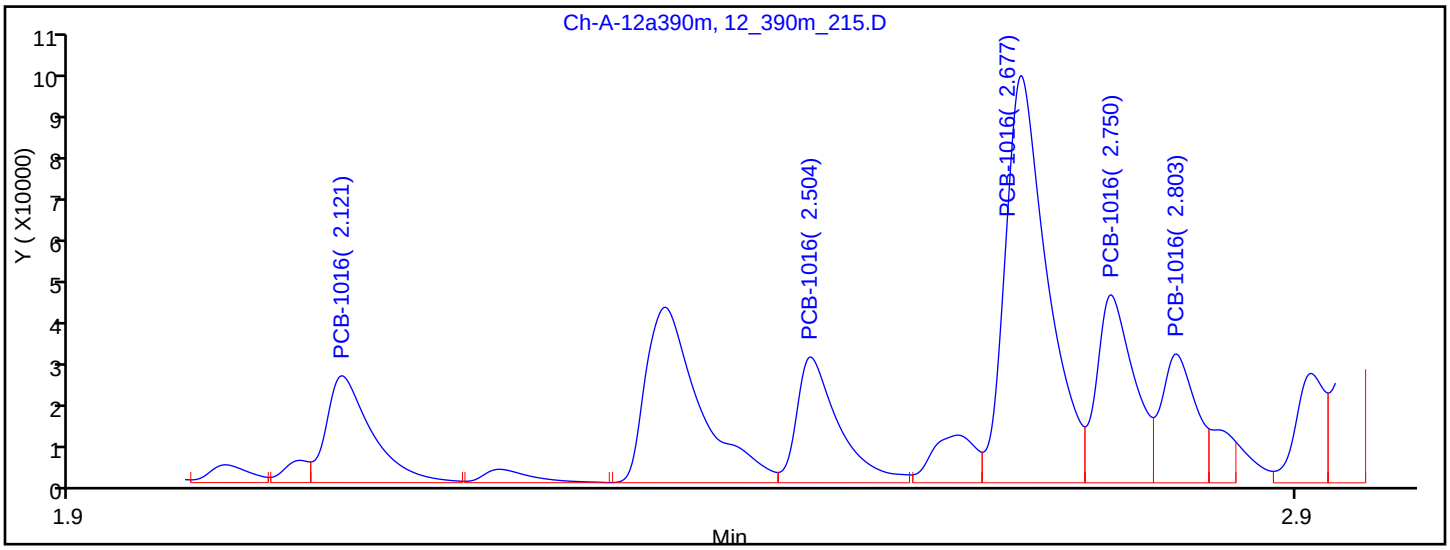
Injection Date:	11-May-2017 16:01:52	Instrument ID:	HP5890-12		
Lims ID:	IC 6				
Client ID:					
Operator ID:	BufTCHROM	ALS Bottle#:	0	Worklist Smp#:	18
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	5890-12 PCB IS	Limit Group:	GC - 8082A PCB IS ICAL		
Column:		Detector	Ch-A-7A136		

9 PCB-1016, CAS: 12674-11-2



Processing Integration Results

2.121	Response = 56431
2.504	Response = 58393
2.677	Response = 212118
2.750	Response = 80540
2.803	Response = 57733



Manual Integration Results

2.121	Response = 66140	M
2.504	Response = 72358	M
2.677	Response = 235761	M
2.750	Response = 96162	M
2.803	Response = 60376	M

Reviewer: owenj, 12-May-2017 15:32:57

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Report Date: 15-May-2017 13:50:51 Chrom Revision: 2.2 18-Apr-2017 07:43:58

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170511-62436.b\12_390m_215.D

Injection Date: 11-May-2017 16:01:52 Instrument ID: HP5890-12

Lims ID: IC 6

Client ID:

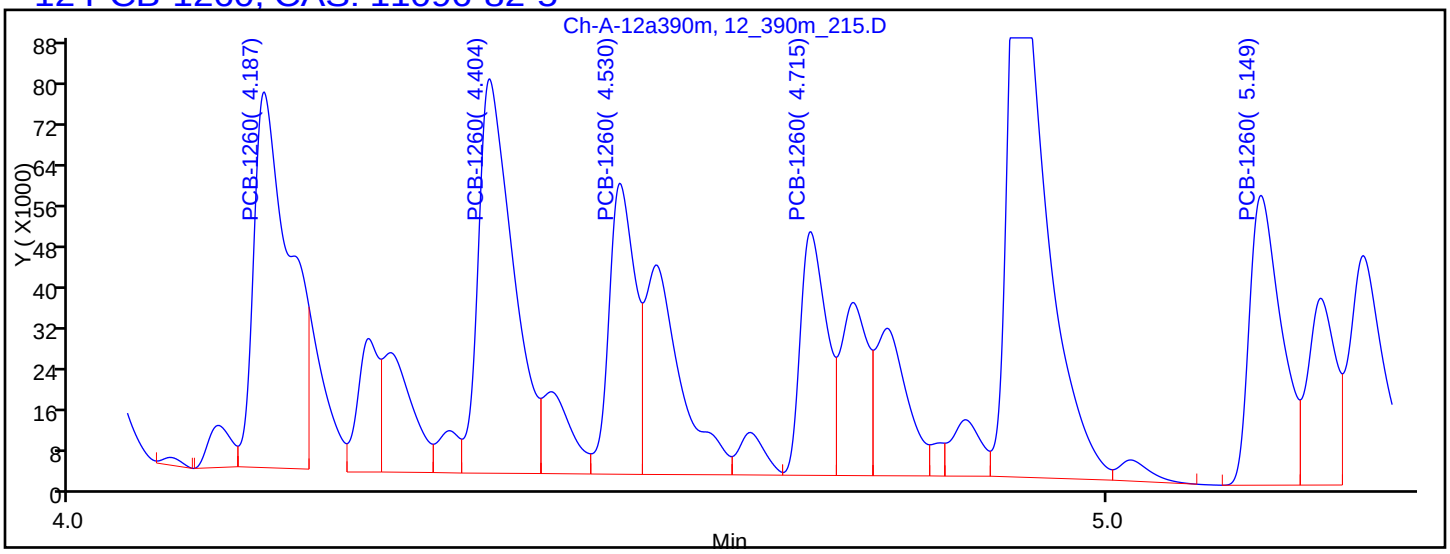
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 18

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 5890-12 PCB IS Limit Group: GC - 8082A PCB IS ICAL

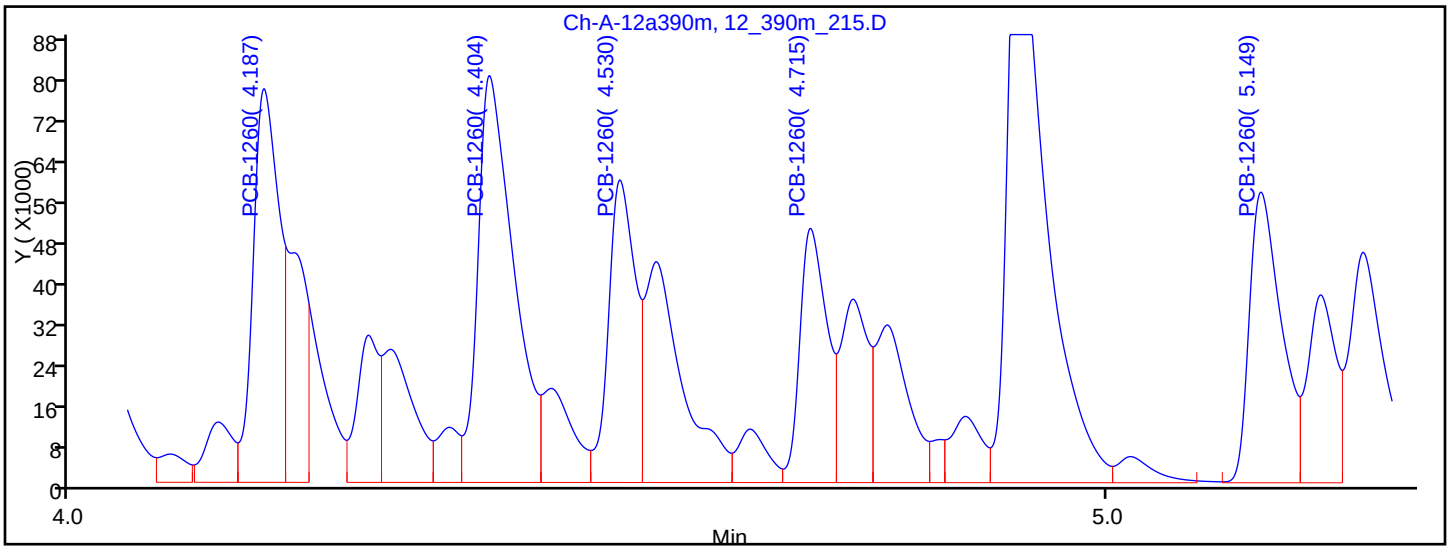
Column: Detector Ch-A-7A136

12 PCB-1260, CAS: 11096-82-5



Processing Integration Results

4.187	Response = 178277
4.404	Response = 181300
4.530	Response = 100776
4.715	Response = 84534
5.149	Response = 122031



Manual Integration Results

4.187	Response = 134181	M
4.404	Response = 192588	M
4.530	Response = 107623	M
4.715	Response = 91027	M
5.149	Response = 122865	M

Reviewer: owenj, 12-May-2017 15:33:01

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

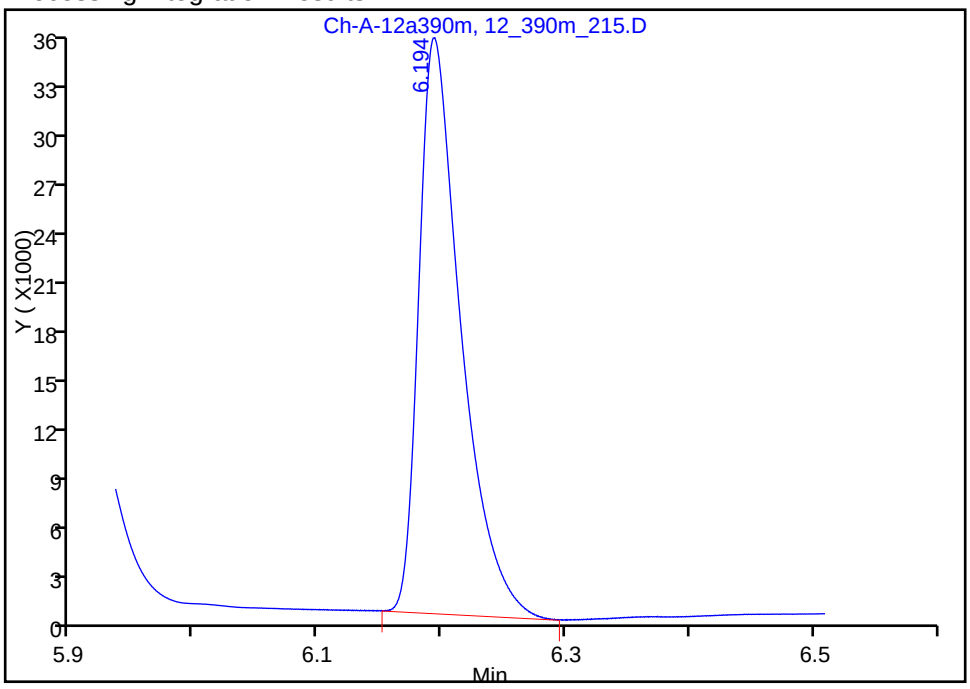
Data File:	\\ChromNA\Buffalo\ChromData\HP5890-12\20170511-62436.b\12_390m_215.D				
Injection Date:	11-May-2017 16:01:52	Instrument ID:	HP5890-12		
Lims ID:	IC 6				
Client ID:					
Operator ID:	BufTCHROM	ALS Bottle#:	0	Worklist Smp#:	18
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	5890-12 PCB IS	Limit Group:	GC - 8082A PCB IS ICAL		
Column:		Detector	Ch-A-7A136		

$ 15 DCB Decachlorobiphenyl, CAS: 2051-24-3

Signal: 1

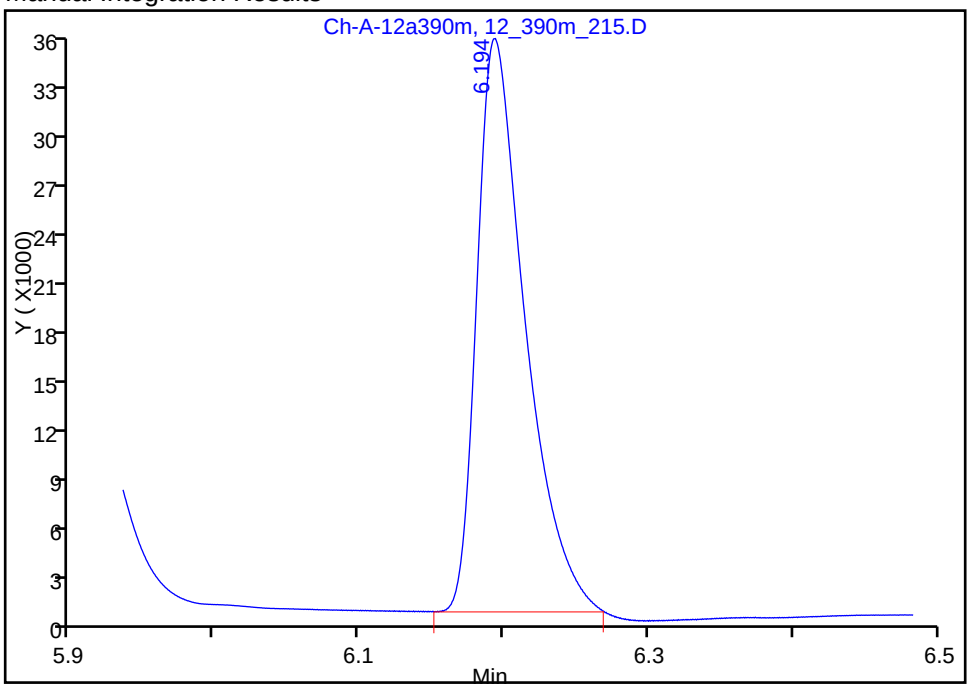
Processing Integration Results

RT: 6.19
Area: 83417
Amount: 0.025457
Amount Units: ng/uL



Manual Integration Results

RT: 6.19
Area: 81549
Amount: 0.025356
Amount Units: ng/uL



Reviewer: owenj, 12-May-2017 16:03:07

Audit Action: Split an Integrated Peak Audit Reason: Baseline Smoothing

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170511-62436.b\12_390m_216.D
Lims ID: ICIS 5
Client ID:
Sample Type: ICIS Calib Level: 5
Inject. Date: 11-May-2017 16:17:12 ALS Bottle#: 0 Worklist Smp#: 19
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP5890-12
Sublist: chrom-5890-12 PCB IS*sub1

Method: \\ChromNA\Buffalo\ChromData\HP5890-12\20170511-62436.b\5890-12 PCB IS.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 15-May-2017 13:50:53 Calib Date: 12-May-2017 17:50:21
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170511-62436.b\12_390m_240.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK026

First Level Reviewer: owenj Date: 12-May-2017 15:33:58

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.319	1.319	0.000	1242256	0.5000	0.5000	
2	1.617	1.617	0.000	1109432	0.5000	0.5000	
						RPD = 0.00	
$ 6 Tetrachloro-m-xylene							M
1	1.917	1.917	0.000	30459	0.0125	0.0122	M
2	2.207	2.207	0.000	23415	0.0125	0.0118	M
						RPD = 3.56	
9 PCB-1016							M
1	2.123	2.123	0.000	34907	0.5000	0.5166	M
1	2.505	2.505	0.000	37488	0.5000	0.5210	M
1	2.677	2.677	0.000	123085	0.5000	0.5016	M
1	2.751	2.751	0.000	49584	0.5000	0.5186	M
1	2.803	2.803	0.000	30097	0.5000	0.5096	M
		Average of Peak Amounts =				0.5135	
2	2.616	2.616	0.000	24469	0.5000	0.5356	M
2	2.936	2.936	0.000	49784	0.5000	0.5328	M
2	3.147	3.147	0.000	30139	0.5000	0.5235	M
2	3.246	3.246	0.000	90874	0.5000	0.5075	M
2	3.364	3.364	0.000	37865	0.5000	0.5095	M
		Average of Peak Amounts =				0.5218	
						RPD = 1.60	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
12 PCB-1260							M
1	4.187	4.187	0.000	75072	0.5000	0.5281	M
1	4.405	4.405	0.000	97345	0.5000	0.5064	
1	4.531	4.531	0.000	55281	0.5000	0.5087	
1	4.714	4.714	0.000	45564	0.5000	0.5047	
1	5.149	5.149	0.000	60333	0.5000	0.4889	M
		Average of Peak Amounts =				0.5074	
2	5.130	5.130	0.000	58672	0.5000	0.5040	
2	5.450	5.450	0.000	48489	0.5000	0.4990	
2	5.518	5.518	0.000	37018	0.5000	0.5086	
2	5.583	5.583	0.000	129530	0.5000	0.5025	
2	5.955	5.955	0.000	84773	0.5000	0.5009	
		Average of Peak Amounts =				0.5030	
						RPD = 0.86	
$ 15 DCB Decachlorobiphenyl							M
1	6.192	6.192	0.000	40170	0.0125	0.0123	M
2	7.245	7.245	0.000	38140	0.0125	0.0128	
						RPD = 3.55	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

1660sur/is0.5_00005 Amount Added: 1.00 Units: mL

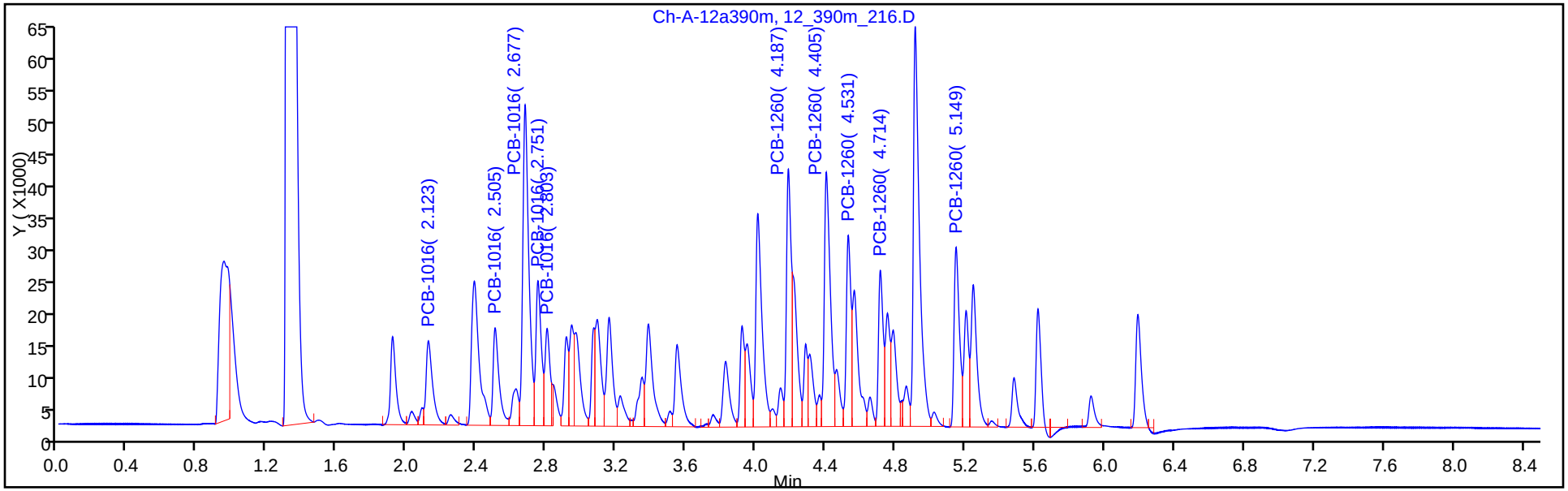
Report Date: 15-May-2017 13:50:54 Chrom Revision: 2.2 18-Apr-2017 07:43:58

TestAmerica Buffalo

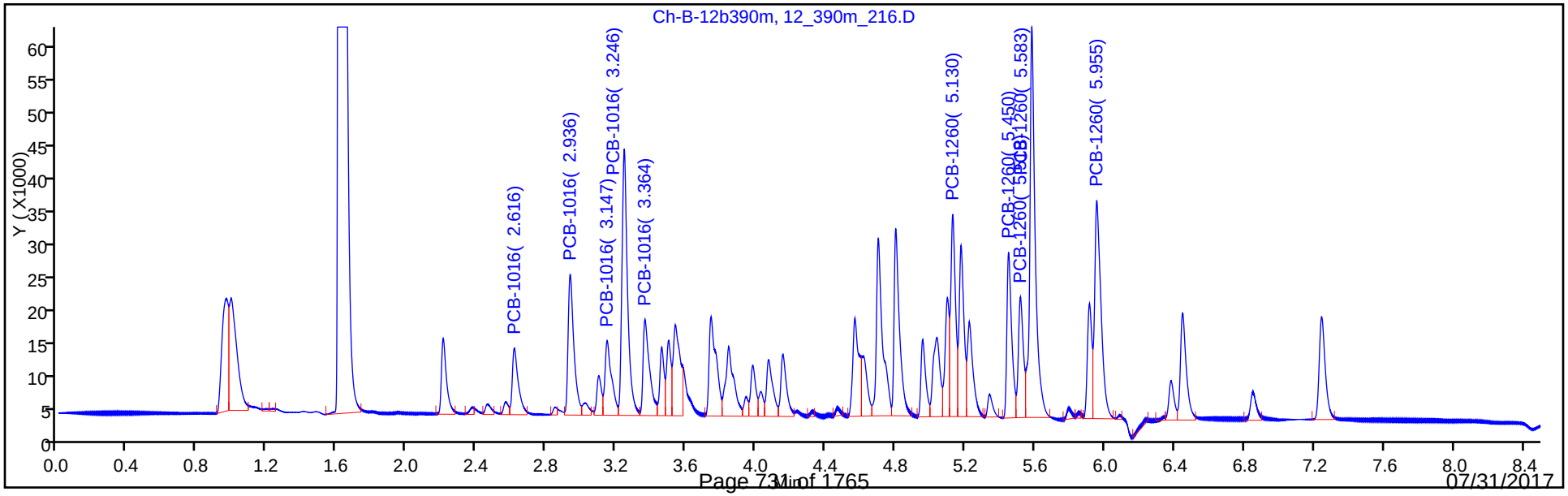
Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170511-62436.b\12_390m_216.D

Injection Date:	11-May-2017 16:17:12	Instrument ID:	HP5890-12	Operator ID:	BufTCHROM
Lims ID:	ICIS 5			Worklist Smp#:	19
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	5890-12 PCB IS	Limit Group:	GC - 8082A PCB IS ICAL		

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



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



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

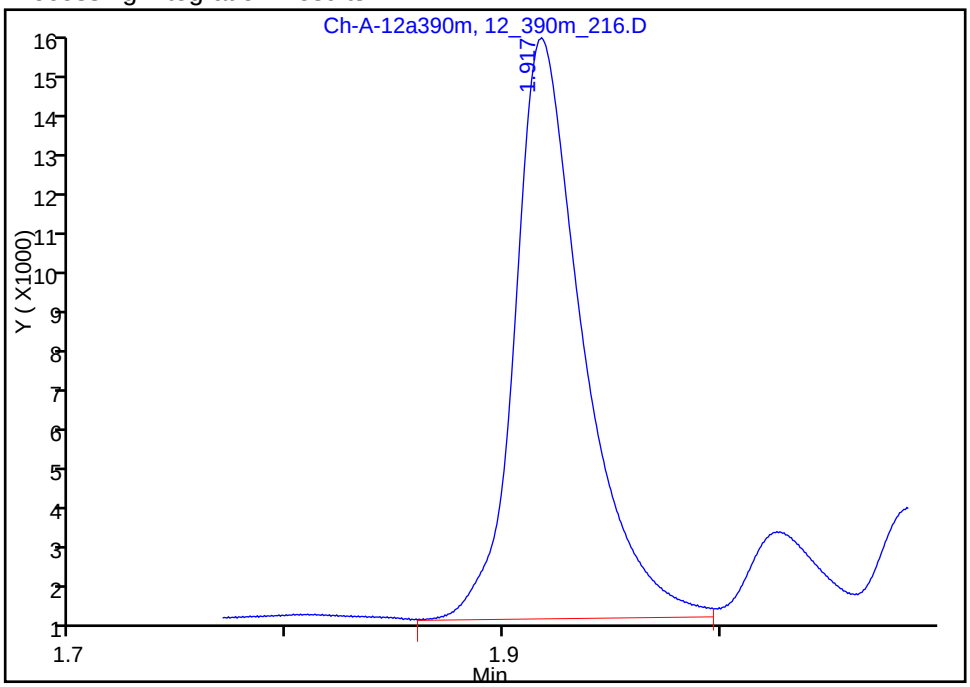
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Injection Date:	11-May-2017 16:17:12	Instrument ID:	HP5890-12		
Lims ID:	ICIS 5				
Client ID:					
Operator ID:	BufTCHROM	ALS Bottle#:	0	Worklist Smp#:	19
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	5890-12 PCB IS	Limit Group:	GC - 8082A PCB IS ICAL		
Column:		Detector	Ch-A-7A136		

$ 6 Tetrachloro-m-xylene, CAS: 877-09-8

Signal: 1

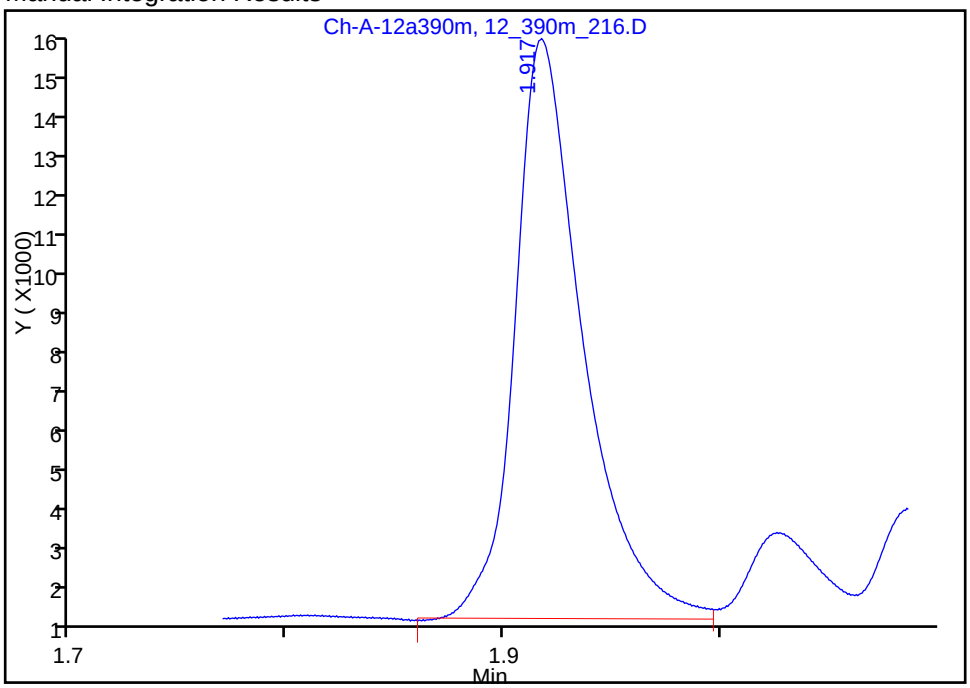
Processing Integration Results

RT: 1.92
Area: 30639
Amount: 0.012240
Amount Units: ng/uL



Manual Integration Results

RT: 1.92
Area: 30459
Amount: 0.012244
Amount Units: ng/uL



Reviewer: owenj, 12-May-2017 15:33:30
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Report Date: 15-May-2017 13:50:54 Chrom Revision: 2.2 18-Apr-2017 07:43:58

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170511-62436.b\12_390m_216.D

Injection Date: 11-May-2017 16:17:12 Instrument ID: HP5890-12

Lims ID: ICIS 5

Client ID:

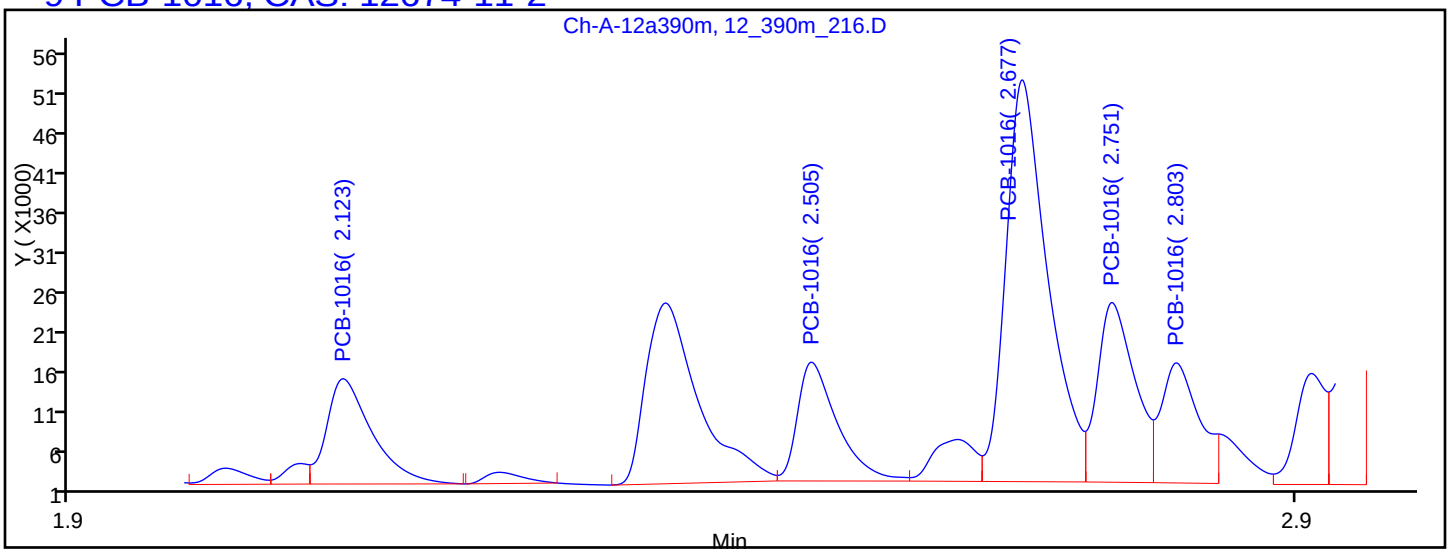
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 19

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 5890-12 PCB IS Limit Group: GC - 8082A PCB IS ICAL

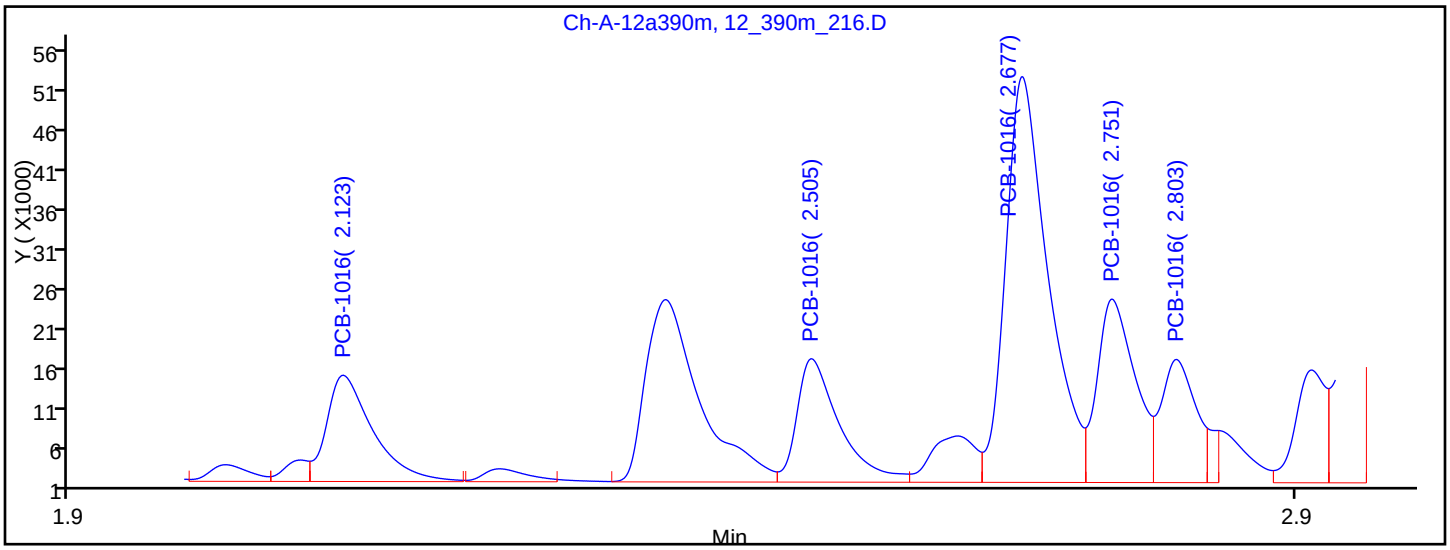
Column: Detector Ch-A-7A136

9 PCB-1016, CAS: 12674-11-2



Processing Integration Results

2.123	Response = 33870
2.505	Response = 33707
2.677	Response = 120408
2.751	Response = 48037
2.803	Response = 32556



Manual Integration Results

2.123	Response = 34907	M
2.505	Response = 37488	M
2.677	Response = 123085	M
2.751	Response = 49584	M
2.803	Response = 30097	M

Reviewer: owenj, 12-May-2017 15:33:30

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Report Date: 15-May-2017 13:50:54 Chrom Revision: 2.2 18-Apr-2017 07:43:58

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170511-62436.b\12_390m_216.D

Injection Date: 11-May-2017 16:17:12 Instrument ID: HP5890-12

Lims ID: ICIS 5

Client ID:

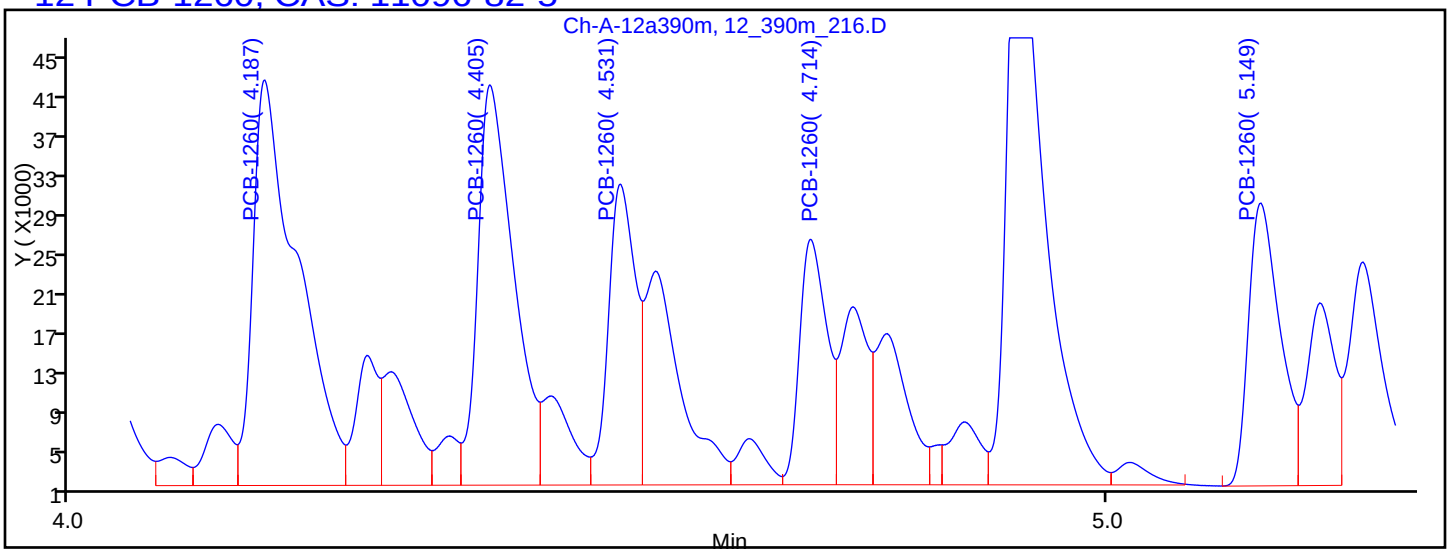
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 19

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 5890-12 PCB IS Limit Group: GC - 8082A PCB IS ICAL

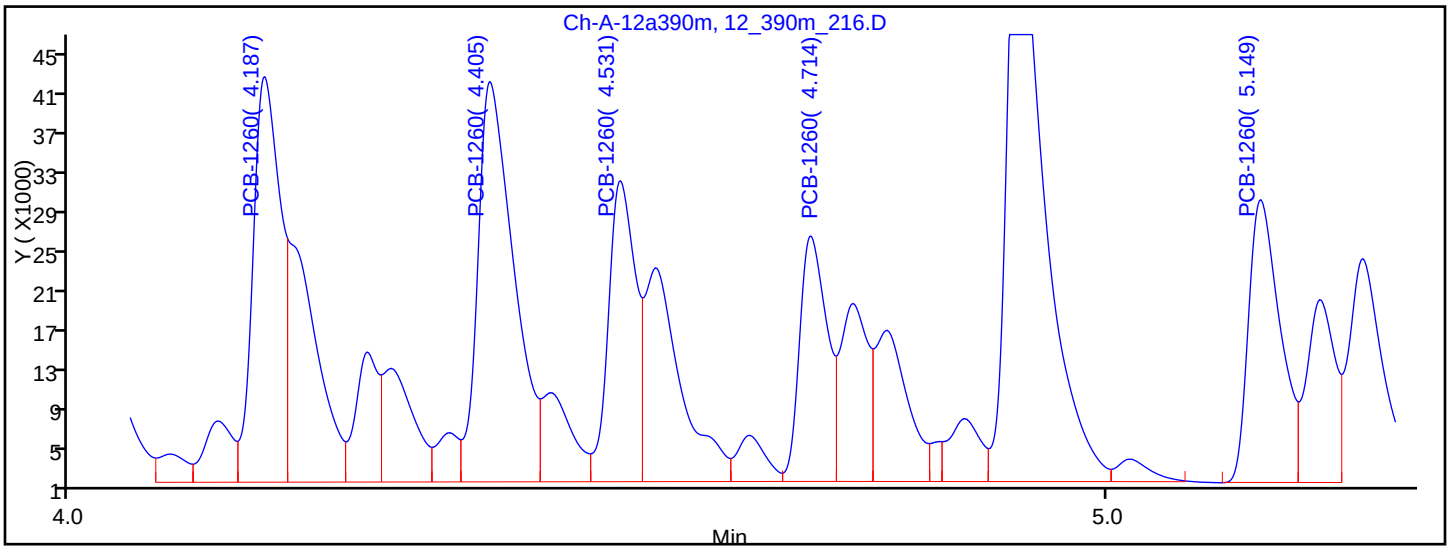
Column: Detector Ch-A-7A136

12 PCB-1260, CAS: 11096-82-5



Processing Integration Results

4.187	Response = 122717
4.405	Response = 97345
4.531	Response = 55281
4.714	Response = 45564
5.149	Response = 60410



Manual Integration Results

4.187	Response = 75072	M
4.405	Response = 97345	
4.531	Response = 55281	
4.714	Response = 45564	
5.149	Response = 60333	M

Reviewer: owenj, 12-May-2017 15:33:39

Audit Action: Split an Integrated Peak Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

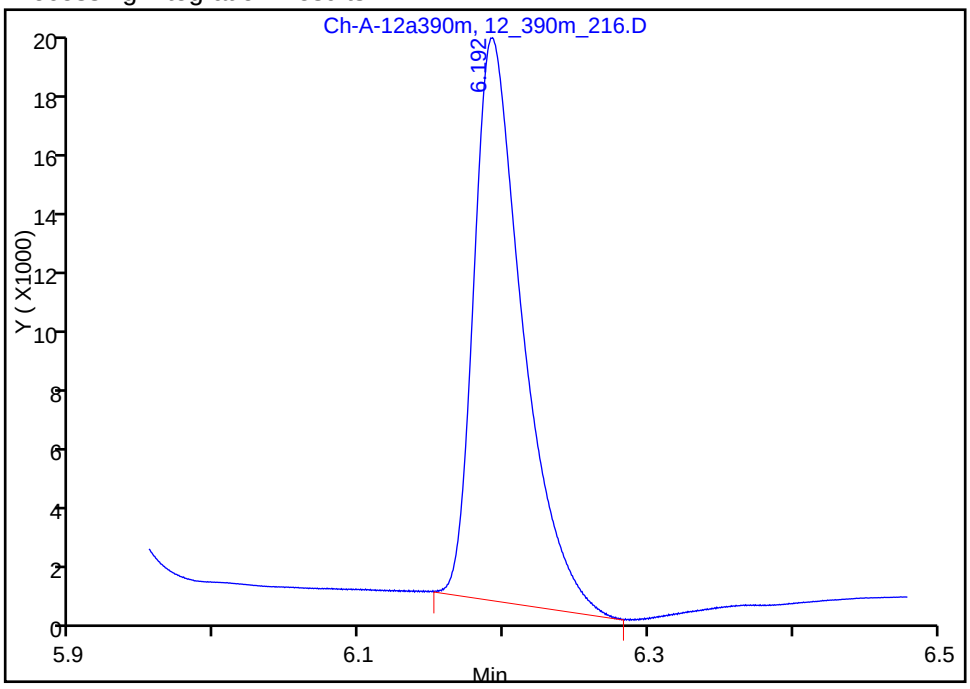
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Injection Date: 11-May-2017 16:17:12 Instrument ID: HP5890-12
Lims ID: ICIS 5
Client ID:
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 19
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 5890-12 PCB IS Limit Group: GC - 8082A PCB IS ICAL
Column: Detector Ch-A-7A136

$ 15 DCB Decachlorobiphenyl, CAS: 2051-24-3

Signal: 1

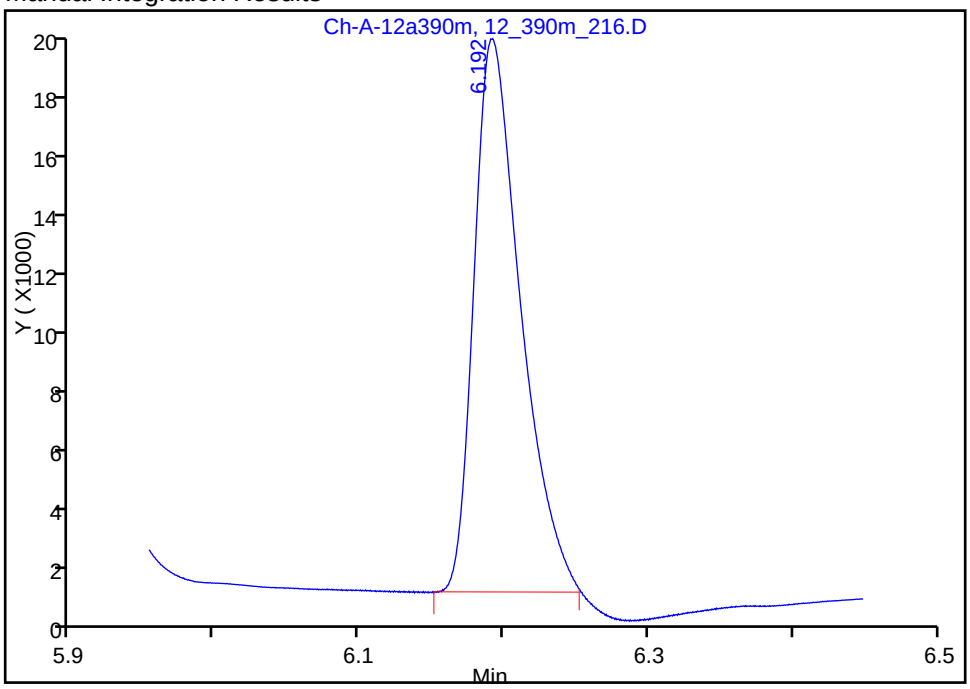
Processing Integration Results

RT: 6.19
Area: 42913
Amount: 0.012756
Amount Units: ng/uL



Manual Integration Results

RT: 6.19
Area: 40170
Amount: 0.012318
Amount Units: ng/uL



Reviewer: owenj, 12-May-2017 16:02:47
Audit Action: Split an Integrated Peak Audit Reason: Baseline Smoothing

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170511-62436.b\12_390m_217.D
Lims ID: IC 4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 11-May-2017 16:32:35 ALS Bottle#: 0 Worklist Smp#: 20
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP5890-12
Sublist: chrom-5890-12 PCB IS*sub1

Method: \\ChromNA\Buffalo\ChromData\HP5890-12\20170511-62436.b\5890-12 PCB IS.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 15-May-2017 13:50:57 Calib Date: 12-May-2017 17:50:21
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170511-62436.b\12_390m_240.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK026

First Level Reviewer: owenj Date: 11-May-2017 17:22:30

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.319	1.319	0.000	1267222	0.5000	0.5000	
2	1.616	1.617	-0.001	1132123	0.5000	0.5000	
						RPD = 0.00	
$ 6 Tetrachloro-m-xylene							M
1	1.916	1.917	-0.001	12358	0.005000	0.004977	M
2	2.207	2.207	0.000	8574	0.005000	0.004294	
						RPD = 14.75	
9 PCB-1016							M
1	2.123	2.123	0.000	15036	0.2000	0.2182	M
1	2.505	2.505	0.000	15855	0.2000	0.2160	M
1	2.678	2.677	0.001	52434	0.2000	0.2095	M
1	2.751	2.751	0.000	21437	0.2000	0.2122	M
1	2.803	2.803	0.000	12533	0.2000	0.2039	M
		Average of Peak Amounts =				0.2119	
2	2.615	2.616	-0.001	10411	0.2000	0.2132	M
2	2.936	2.936	0.000	21779	0.2000	0.2226	M
2	3.147	3.147	0.000	12711	0.2000	0.2176	M
2	3.245	3.246	-0.001	37971	0.2000	0.2056	M
2	3.364	3.364	0.000	15981	0.2000	0.2107	M
		Average of Peak Amounts =				0.2139	
						RPD = 0.94	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
12 PCB-1260							M
1	4.187	4.187	0.000	35011	0.2000	0.2288	M
1	4.404	4.405	-0.001	42034	0.2000	0.2089	M
1	4.529	4.531	-0.002	24020	0.2000	0.2167	M
1	4.713	4.714	-0.001	18160	0.2000	0.1992	M
1	5.148	5.149	-0.001	24761	0.2000	0.1912	M
		Average of Peak Amounts =				0.2089	
2	5.129	5.130	-0.001	26704	0.2000	0.2222	M
2	5.449	5.450	-0.001	22758	0.2000	0.2246	M
2	5.516	5.518	-0.002	16127	0.2000	0.2125	M
2	5.583	5.583	0.000	55320	0.2000	0.2078	M
2	5.955	5.955	0.000	35418	0.2000	0.2046	M
		Average of Peak Amounts =				0.2143	
						RPD = 2.55	
$ 15 DCB Decachlorobiphenyl							M
1	6.189	6.192	-0.003	16167	0.005000	0.004860	M
2	7.243	7.245	-0.002	15899	0.005000	0.005158	
						RPD = 5.94	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

1660sur/is0.2_00005 Amount Added: 1.00 Units: mL

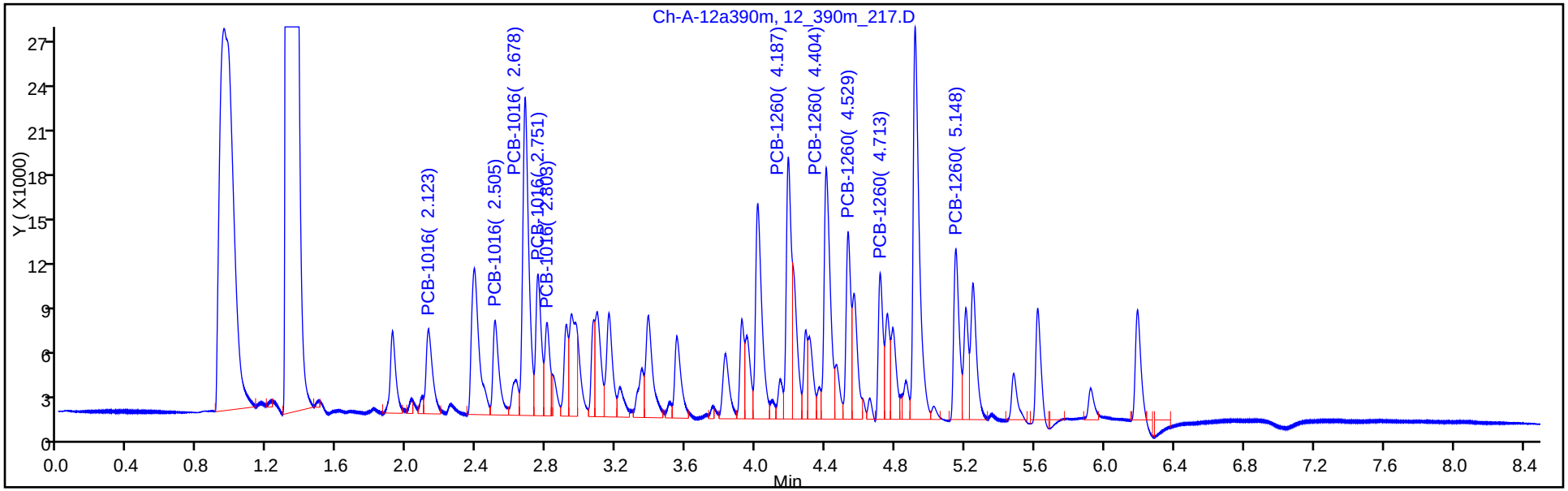
Report Date: 15-May-2017 13:50:58 Chrom Revision: 2.2 18-Apr-2017 07:43:58

TestAmerica Buffalo

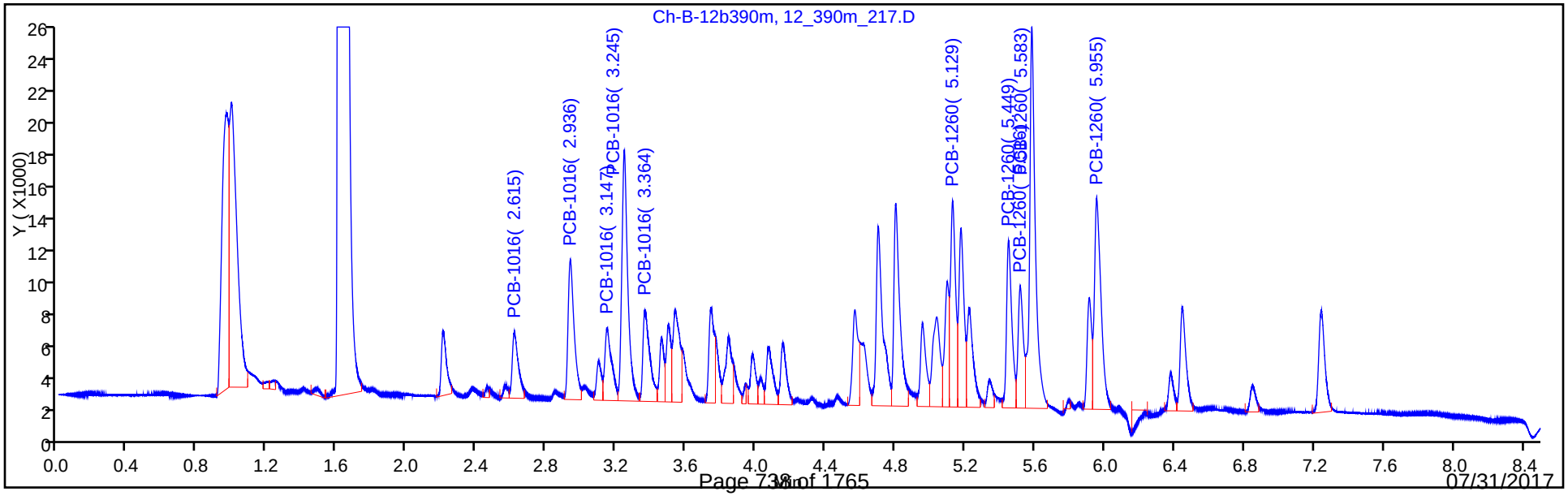
Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170511-62436.b\12_390m_217.D

Injection Date:	11-May-2017 16:32:35	Instrument ID:	HP5890-12	Operator ID:	BufTCHROM
Lims ID:	IC 4			Worklist Smp#:	20
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	5890-12 PCB IS	Limit Group:	GC - 8082A PCB IS ICAL		

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



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



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

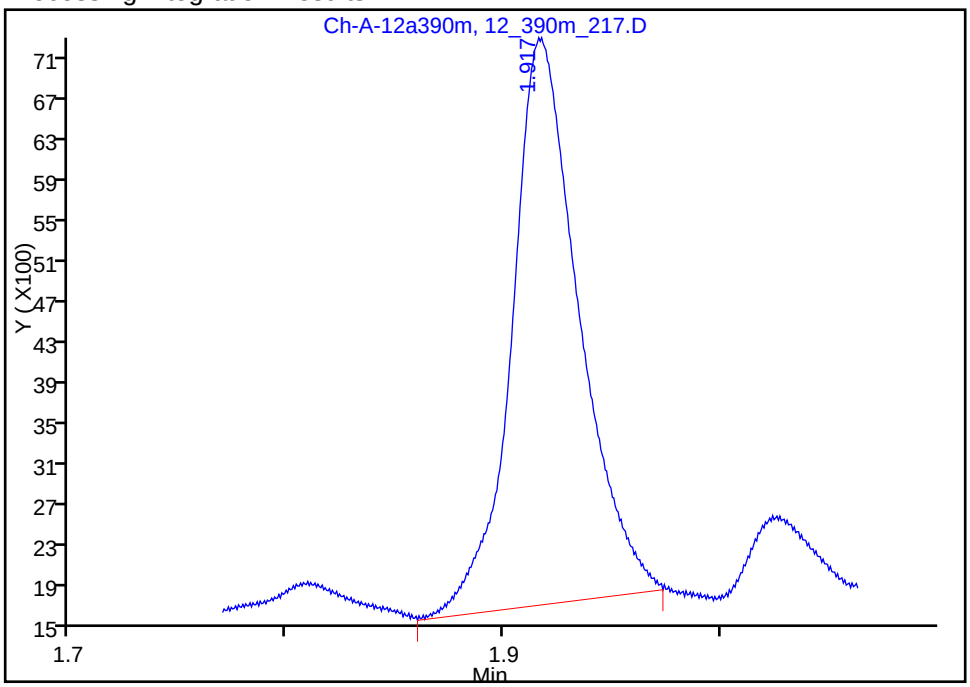
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Injection Date:	11-May-2017 16:32:35	Instrument ID:	HP5890-12		
Lims ID:	IC 4				
Client ID:					
Operator ID:	BufTCHROM	ALS Bottle#:	0	Worklist Smp#:	20
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	5890-12 PCB IS	Limit Group:	GC - 8082A PCB IS ICAL		
Column:		Detector	Ch-A-7A136		

$ 6 Tetrachloro-m-xylene, CAS: 877-09-8

Signal: 1

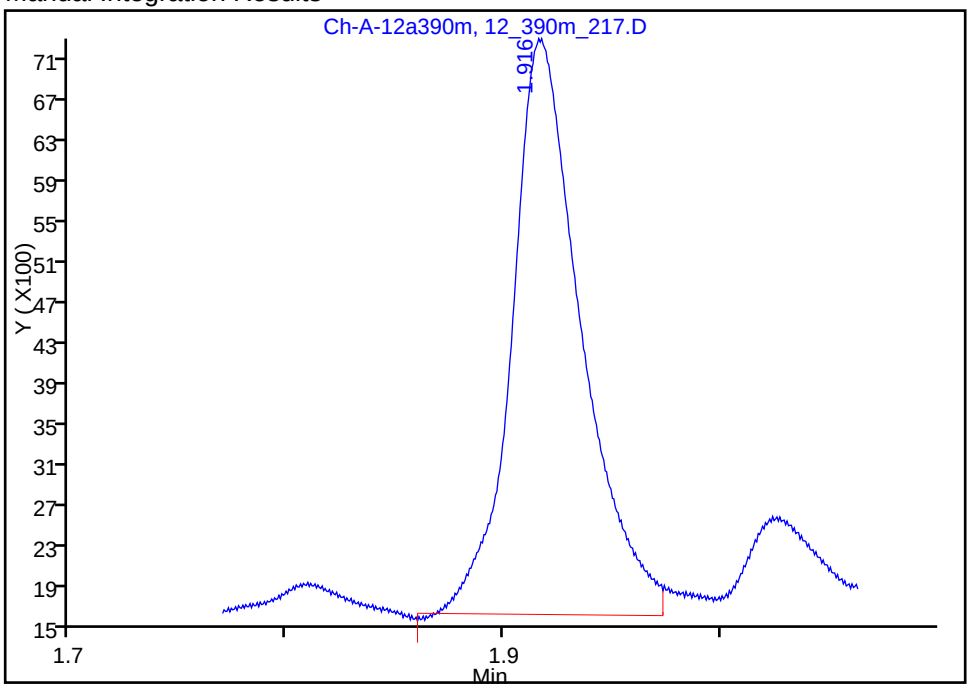
Processing Integration Results

RT: 1.92
Area: 11800
Amount: 0.004648
Amount Units: ng/uL



Manual Integration Results

RT: 1.92
Area: 12358
Amount: 0.004977
Amount Units: ng/uL



Reviewer: owenj, 12-May-2017 15:34:19

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

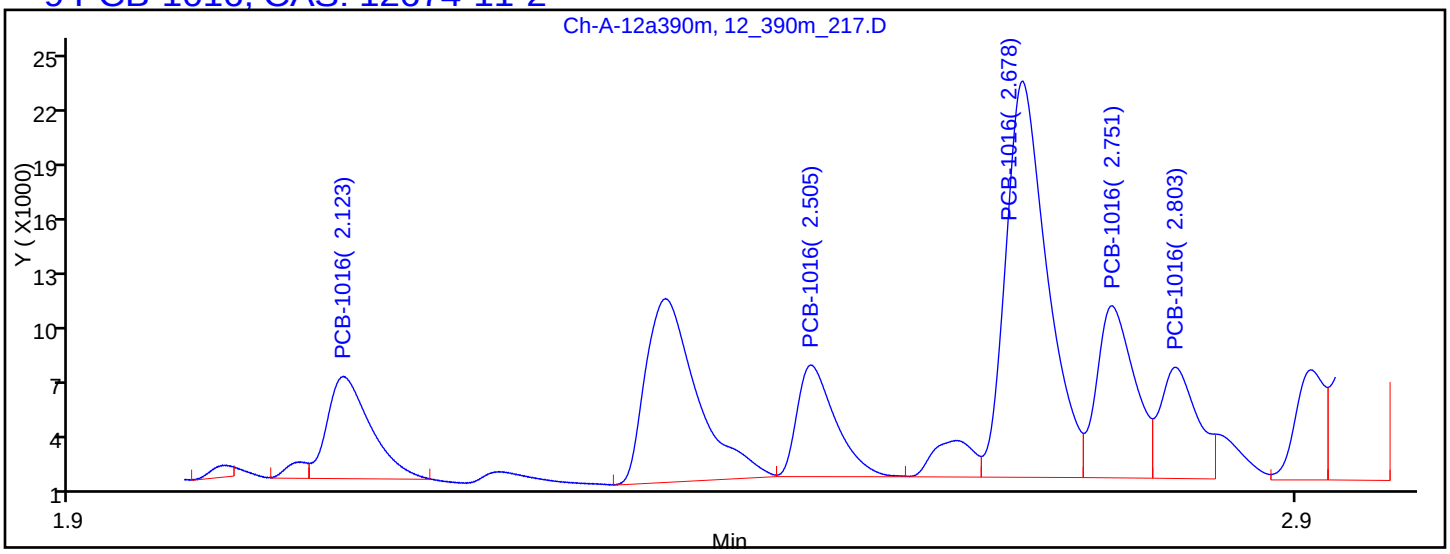
Report Date: 15-May-2017 13:50:58 Chrom Revision: 2.2 18-Apr-2017 07:43:58

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170511-62436.b\12_390m_217.D

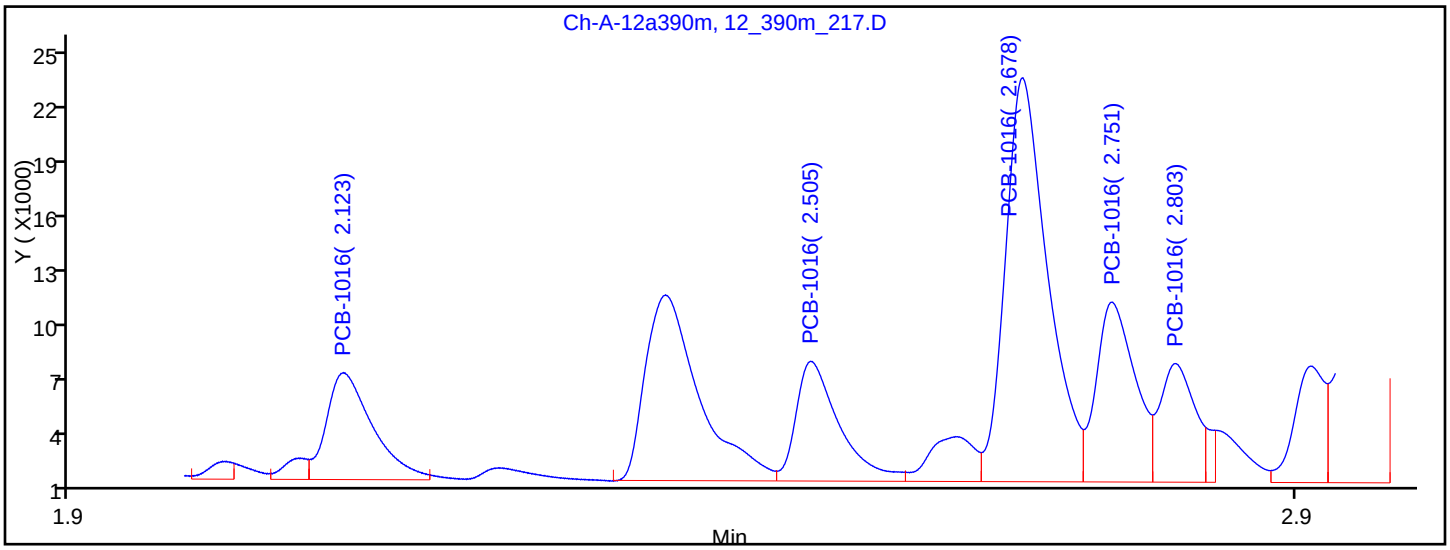
Injection Date:	11-May-2017 16:32:35	Instrument ID:	HP5890-12		
Lims ID:	IC 4				
Client ID:					
Operator ID:	BufTCHROM	ALS Bottle#:	0	Worklist Smp#:	20
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	5890-12 PCB IS	Limit Group:	GC - 8082A PCB IS ICAL		
Column:		Detector	Ch-A-7A136		

9 PCB-1016, CAS: 12674-11-2



Processing Integration Results

2.123	Response = 13553
2.505	Response = 13033
2.678	Response = 50216
2.751	Response = 19978
2.803	Response = 12652



Manual Integration Results

2.123	Response = 15036	M
2.505	Response = 15855	M
2.678	Response = 52434	M
2.751	Response = 21437	M
2.803	Response = 12533	M

Reviewer: owenj, 12-May-2017 15:34:19

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Report Date: 15-May-2017 13:50:58 Chrom Revision: 2.2 18-Apr-2017 07:43:58

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170511-62436.b\12_390m_217.D

Injection Date: 11-May-2017 16:32:35 Instrument ID: HP5890-12

Lims ID: IC 4

Client ID:

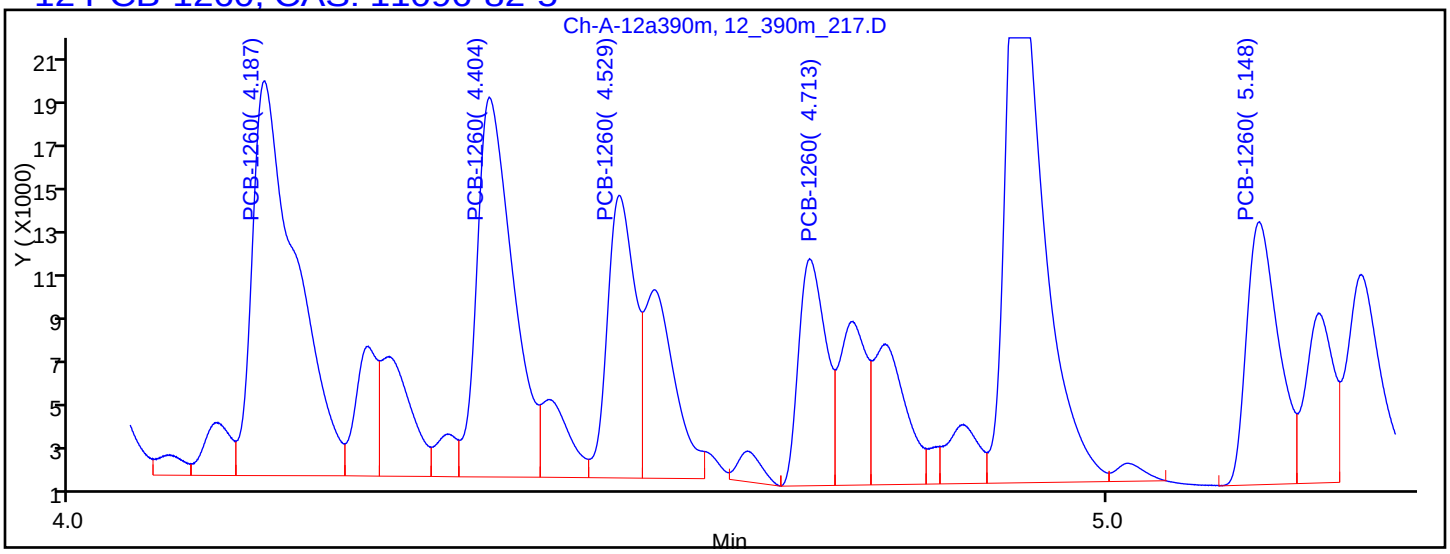
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 20

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 5890-12 PCB IS Limit Group: GC - 8082A PCB IS ICAL

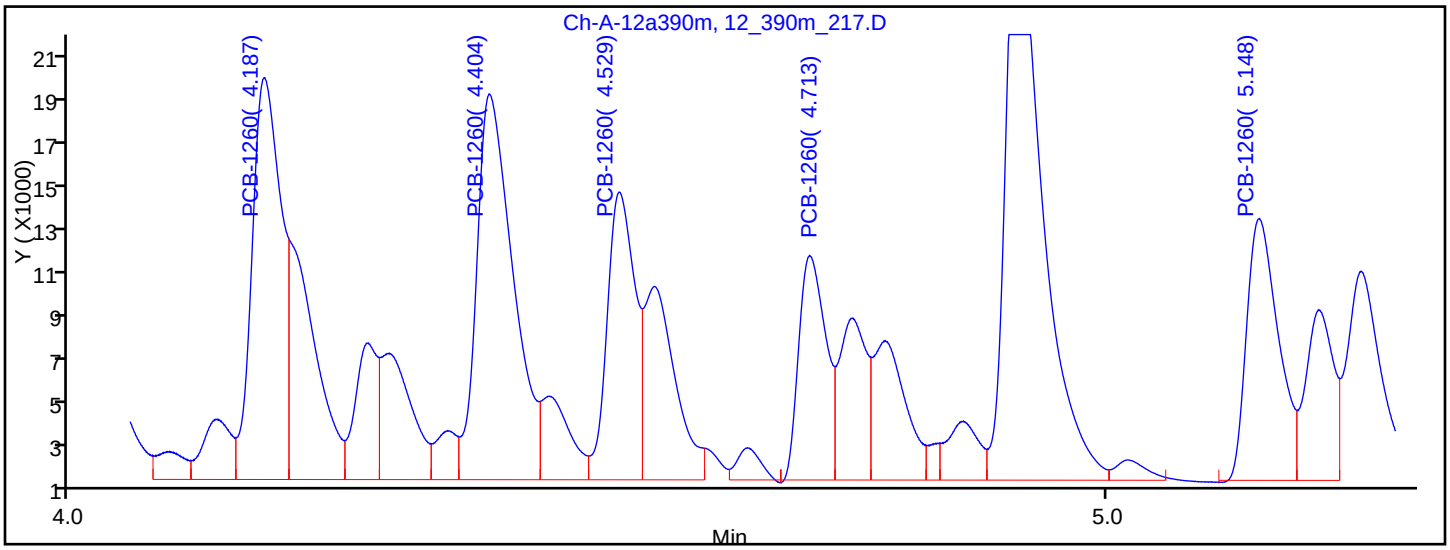
Column: Detector Ch-A-7A136

12 PCB-1260, CAS: 11096-82-5



Processing Integration Results

4.187	Response = 51916
4.404	Response = 40783
4.529	Response = 23304
4.713	Response = 18508
5.148	Response = 24987



Manual Integration Results

4.187	Response = 35011	M
4.404	Response = 42034	M
4.529	Response = 24020	M
4.713	Response = 18160	M
5.148	Response = 24761	M

Reviewer: owenj, 12-May-2017 15:34:15

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

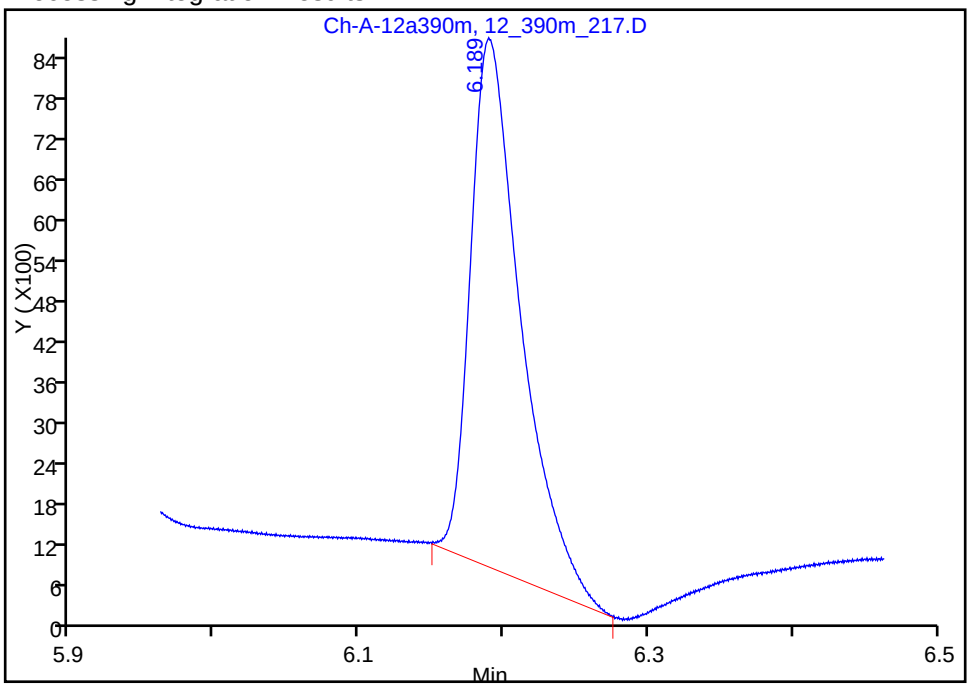
Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170511-62436.b\12_390m_217.D
Injection Date: 11-May-2017 16:32:35 Instrument ID: HP5890-12
Lims ID: IC 4
Client ID:
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 20
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 5890-12 PCB IS Limit Group: GC - 8082A PCB IS ICAL
Column: Detector Ch-A-7A136

$ 15 DCB Decachlorobiphenyl, CAS: 2051-24-3

Signal: 1

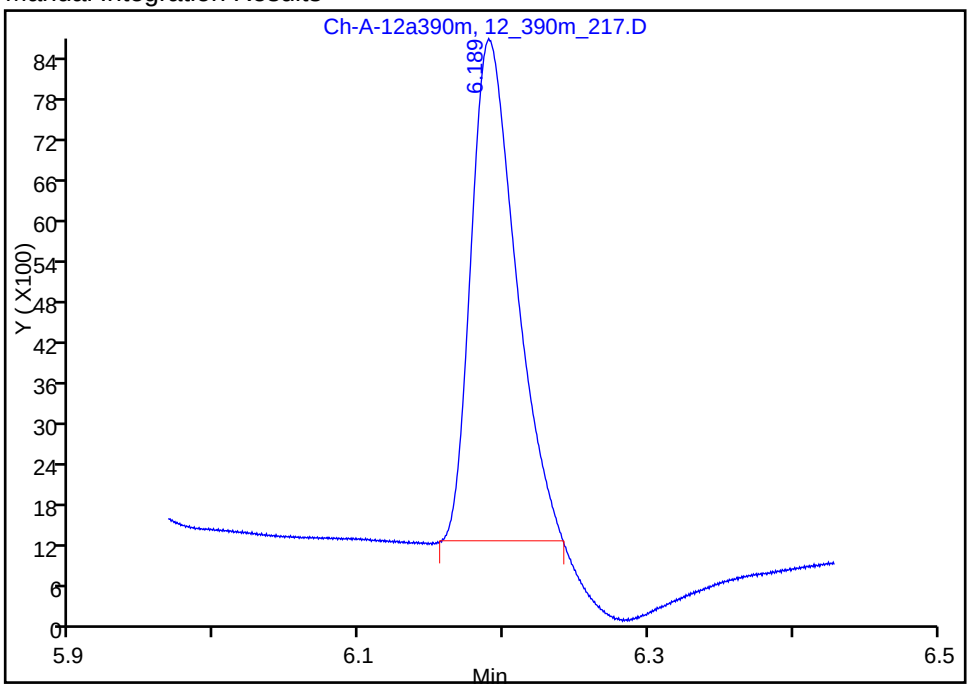
Processing Integration Results

RT: 6.19
Area: 19225
Amount: 0.005470
Amount Units: ng/uL



Manual Integration Results

RT: 6.19
Area: 16167
Amount: 0.004860
Amount Units: ng/uL



Reviewer: owenj, 12-May-2017 16:02:28
Audit Action: Split an Integrated Peak Audit Reason: Baseline Smoothing

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170511-62436.b\12_390m_218.D
Lims ID: IC 3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 11-May-2017 17:07:37 ALS Bottle#: 0 Worklist Smp#: 21
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP5890-12
Sublist: chrom-5890-12 PCB IS*sub1

Method: \\ChromNA\Buffalo\ChromData\HP5890-12\20170511-62436.b\5890-12 PCB IS.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 15-May-2017 13:51:01 Calib Date: 12-May-2017 17:50:21
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170511-62436.b\12_390m_240.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK026

First Level Reviewer: owenj Date: 12-May-2017 15:35:45

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.321	1.319	0.002	1215530	0.5000	0.5000	
2	1.618	1.617	0.001	1069342	0.5000	0.5000	
						RPD = 0.00	
$ 6 Tetrachloro-m-xylene							M
1	1.924	1.917	0.007	5027	0.002500	0.002214	M
2	2.210	2.207	0.003	4181	0.002500	0.002257	M
						RPD = 1.95	
9 PCB-1016							M
1	2.133	2.123	0.010	6478	0.1000	0.0980	
1	2.516	2.505	0.011	7014	0.1000	0.0996	M
1	2.690	2.677	0.013	24849	0.1000	0.1035	M
1	2.763	2.751	0.012	10105	0.1000	0.0975	M
1	2.815	2.803	0.012	5681	0.1000	0.0927	M
		Average of Peak Amounts =				0.0983	
2	2.621	2.616	0.005	4852	0.1000	0.0964	M
2	2.944	2.936	0.008	10245	0.1000	0.1058	M
2	3.154	3.147	0.007	4397	0.1000	0.0810	M
2	3.254	3.246	0.008	17306	0.1000	0.0973	M
2	3.371	3.364	0.007	6439	0.1000	0.0899	M
		Average of Peak Amounts =				0.0941	
						RPD = 4.35	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
12 PCB-1260							M
1	4.202	4.187	0.015	17798	0.1000	0.1103	M
1	4.419	4.405	0.014	21079	0.1000	0.1047	M
1	4.545	4.531	0.014	11503	0.1000	0.1082	M
1	4.729	4.714	0.015	9001	0.1000	0.1045	M
1	5.163	5.149	0.014	12480	0.1000	0.0961	M
		Average of Peak Amounts =				0.1047	
2	5.139	5.130	0.009	12126	0.1000	0.1044	M
2	5.459	5.450	0.009	10136	0.1000	0.1010	M
2	5.527	5.518	0.009	7891	0.1000	0.1061	M
2	5.593	5.583	0.010	28326	0.1000	0.1107	M
2	5.965	5.955	0.010	16798	0.1000	0.1023	M
		Average of Peak Amounts =				0.1049	
						RPD = 0.17	
$ 15 DCB Decachlorobiphenyl							M
1	6.207	6.192	0.015	8233	0.002500	0.002580	M
2	7.258	7.245	0.013	7544	0.002500	0.002544	
						RPD = 1.43	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

1660sur/is0.1_00006 Amount Added: 1.00 Units: mL

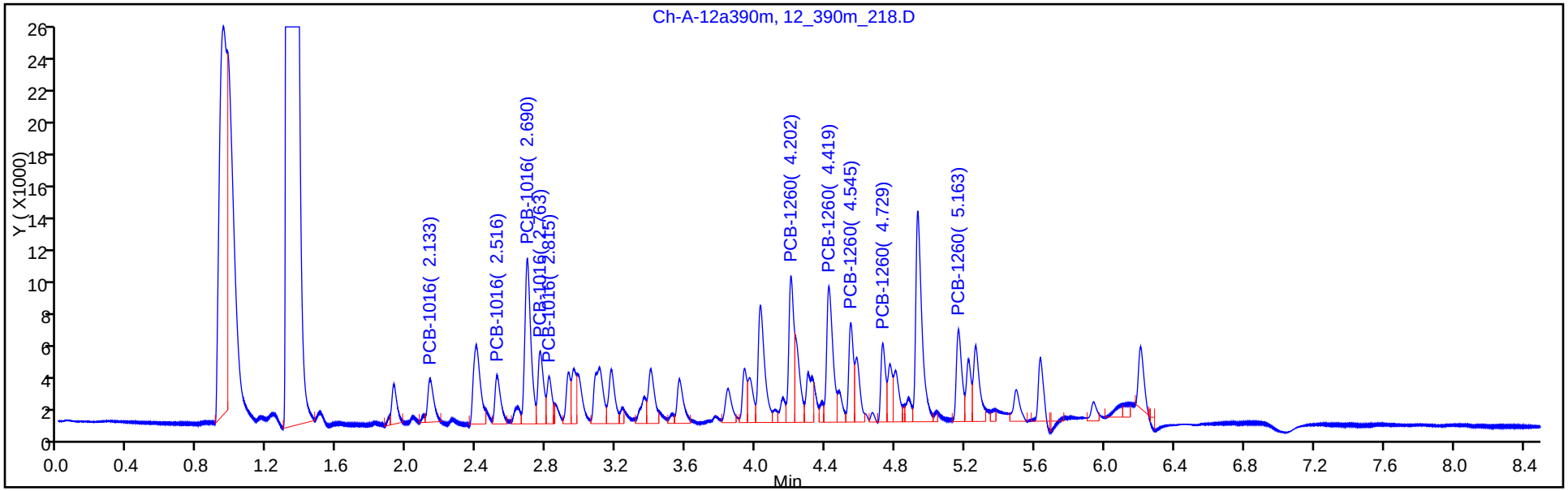
Report Date: 15-May-2017 13:51:01 Chrom Revision: 2.2 18-Apr-2017 07:43:58

TestAmerica Buffalo

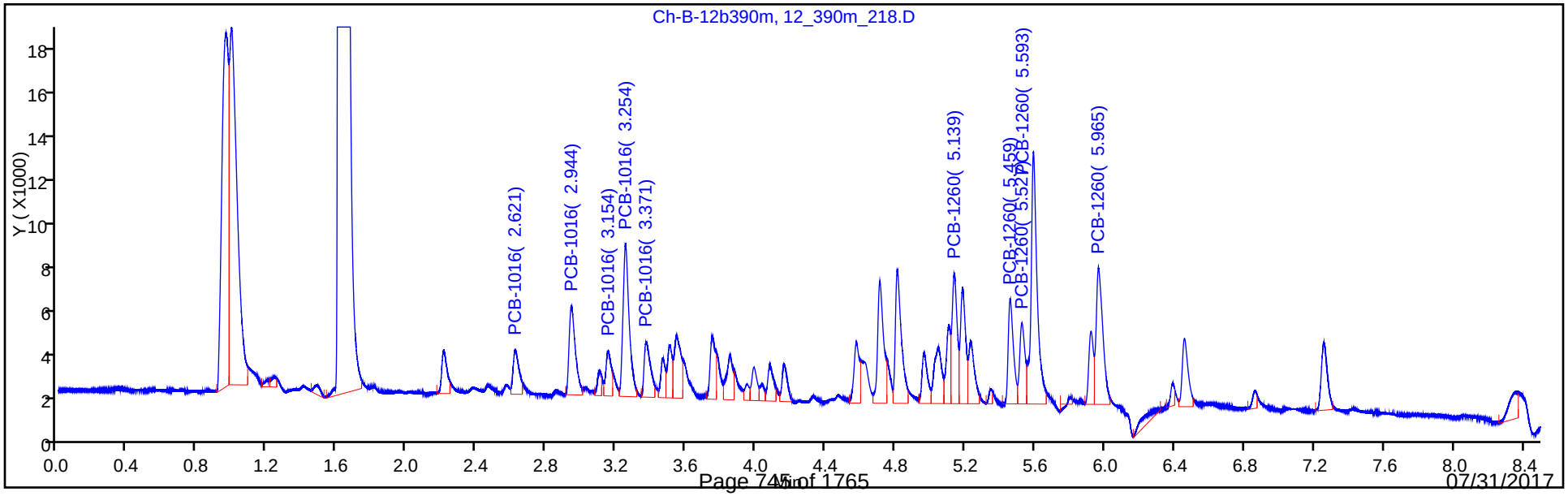
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Injection Date:	11-May-2017 17:07:37	Instrument ID:	HP5890-12	Operator ID:	BufTCHROM
Lims ID:	IC 3			Worklist Smp#:	21
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	5890-12 PCB IS	Limit Group:	GC - 8082A PCB IS ICAL		

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



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



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

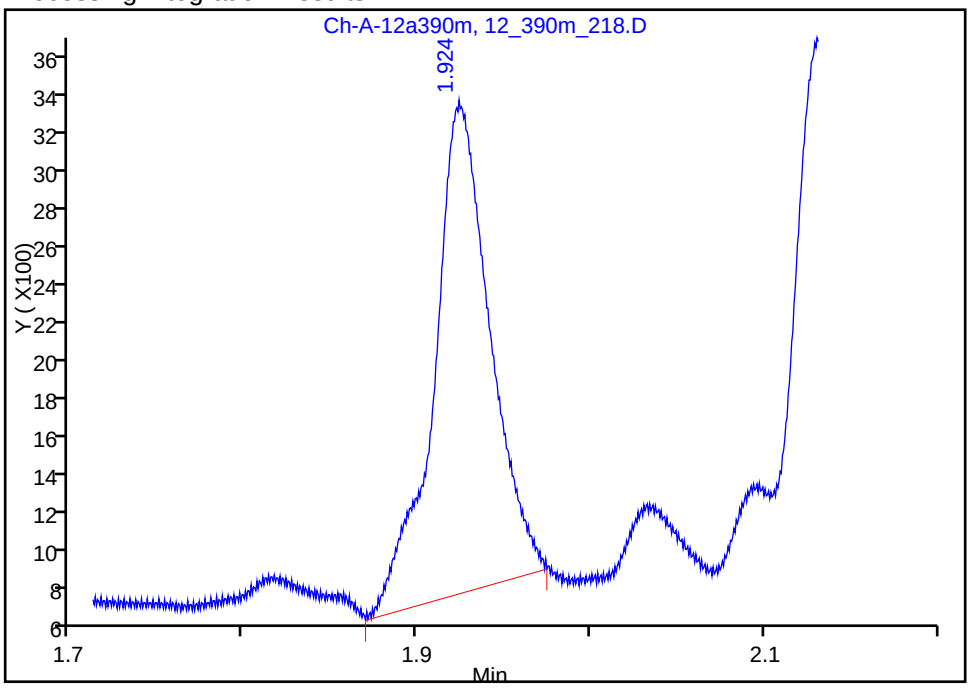
Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170511-62436.b\12_390m_218.D
Injection Date: 11-May-2017 17:07:37 Instrument ID: HP5890-12
Lims ID: IC 3
Client ID:
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 21
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 5890-12 PCB IS Limit Group: GC - 8082A PCB IS ICAL
Column: Detector Ch-A-7A136

$ 6 Tetrachloro-m-xylene, CAS: 877-09-8

Signal: 1

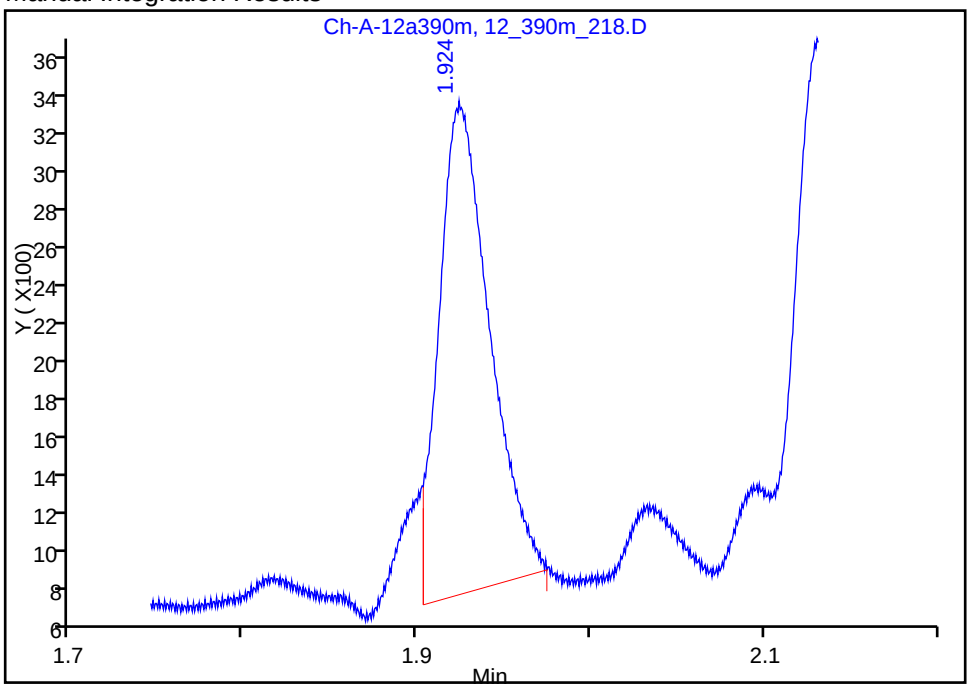
Processing Integration Results

RT: 1.92
Area: 5604
Amount: 0.002293
Amount Units: ng/uL



Manual Integration Results

RT: 1.92
Area: 5027
Amount: 0.002214
Amount Units: ng/uL



Reviewer: owenj, 12-May-2017 15:52:31
Audit Action: Split an Integrated Peak Audit Reason: Split Peak

Report Date: 15-May-2017 13:51:02 Chrom Revision: 2.2 18-Apr-2017 07:43:58

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170511-62436.b\12_390m_218.D

Injection Date: 11-May-2017 17:07:37 Instrument ID: HP5890-12

Lims ID: IC 3

Client ID:

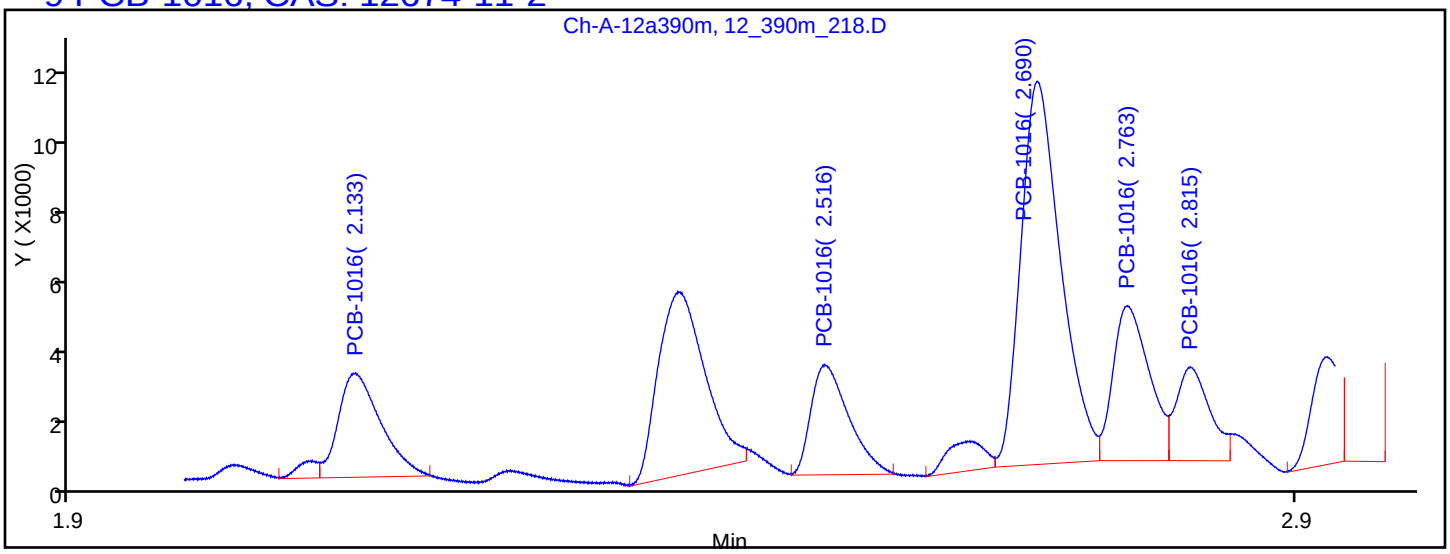
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 21

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 5890-12 PCB IS Limit Group: GC - 8082A PCB IS ICAL

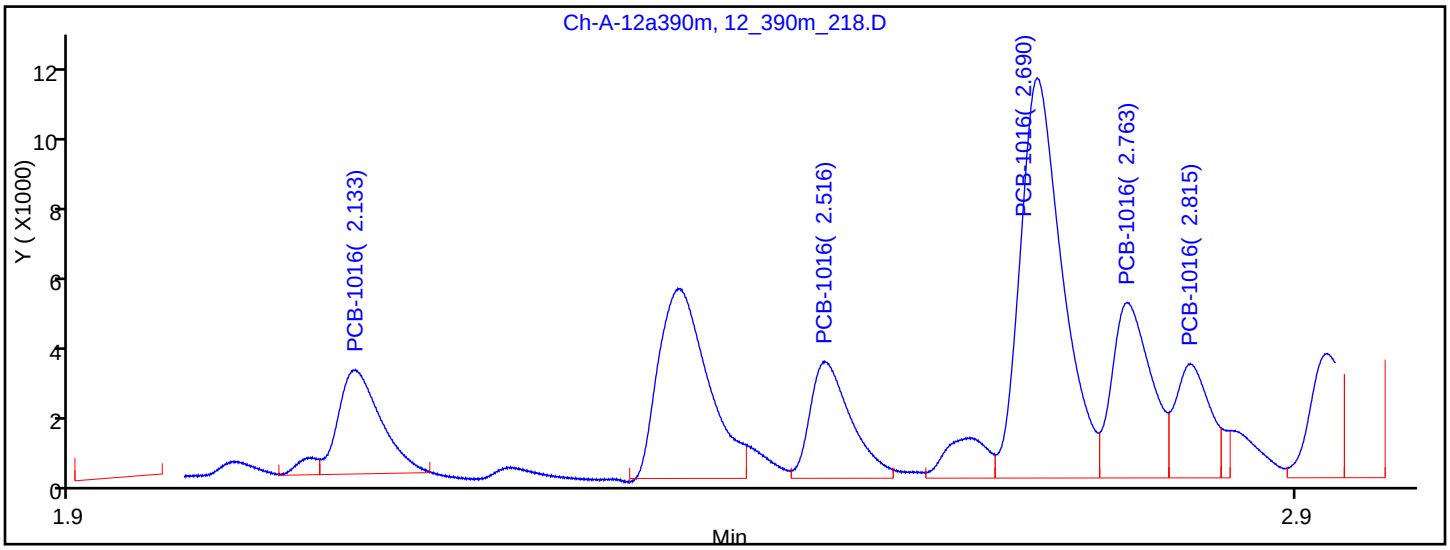
Column: Detector Ch-A-7A136

9 PCB-1016, CAS: 12674-11-2



Processing Integration Results

2.133	Response = 6478
2.516	Response = 6118
2.690	Response = 22538
2.763	Response = 8295
2.815	Response = 4638



Manual Integration Results

2.133	Response = 6478	
2.516	Response = 7014	M
2.690	Response = 24849	M
2.763	Response = 10105	M
2.815	Response = 5681	M

Reviewer: owenj, 12-May-2017 15:35:02

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Report Date: 15-May-2017 13:51:02 Chrom Revision: 2.2 18-Apr-2017 07:43:58

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170511-62436.b\12_390m_218.D

Injection Date: 11-May-2017 17:07:37 Instrument ID: HP5890-12

Lims ID: IC 3

Client ID:

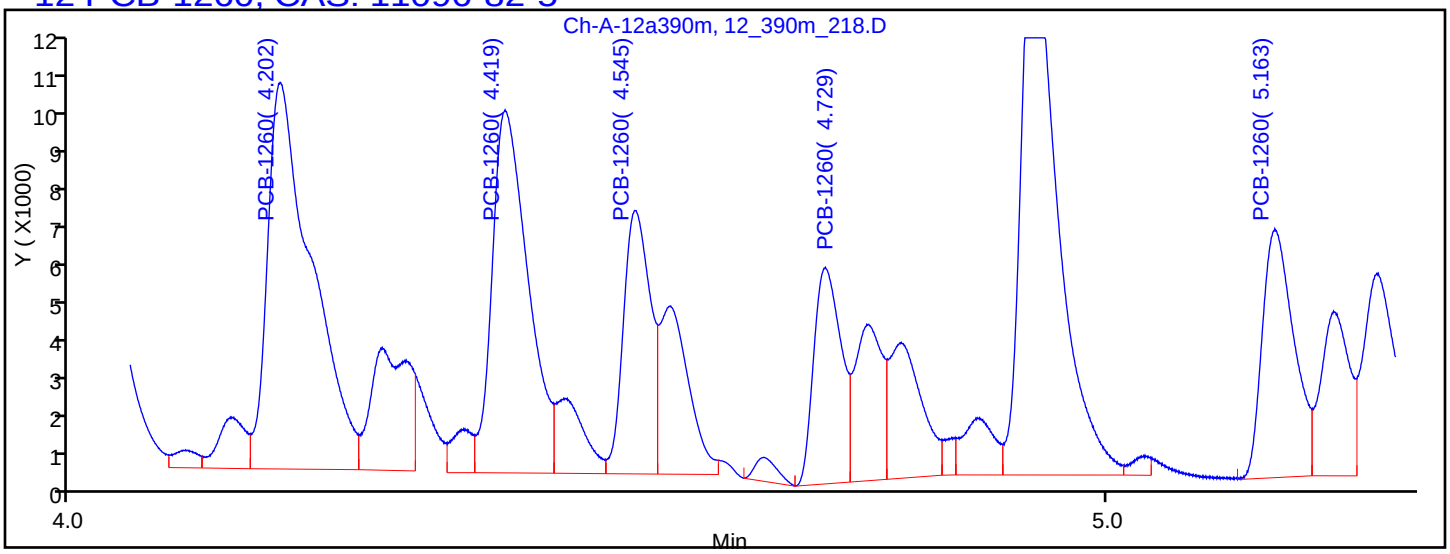
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 21

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 5890-12 PCB IS Limit Group: GC - 8082A PCB IS ICAL

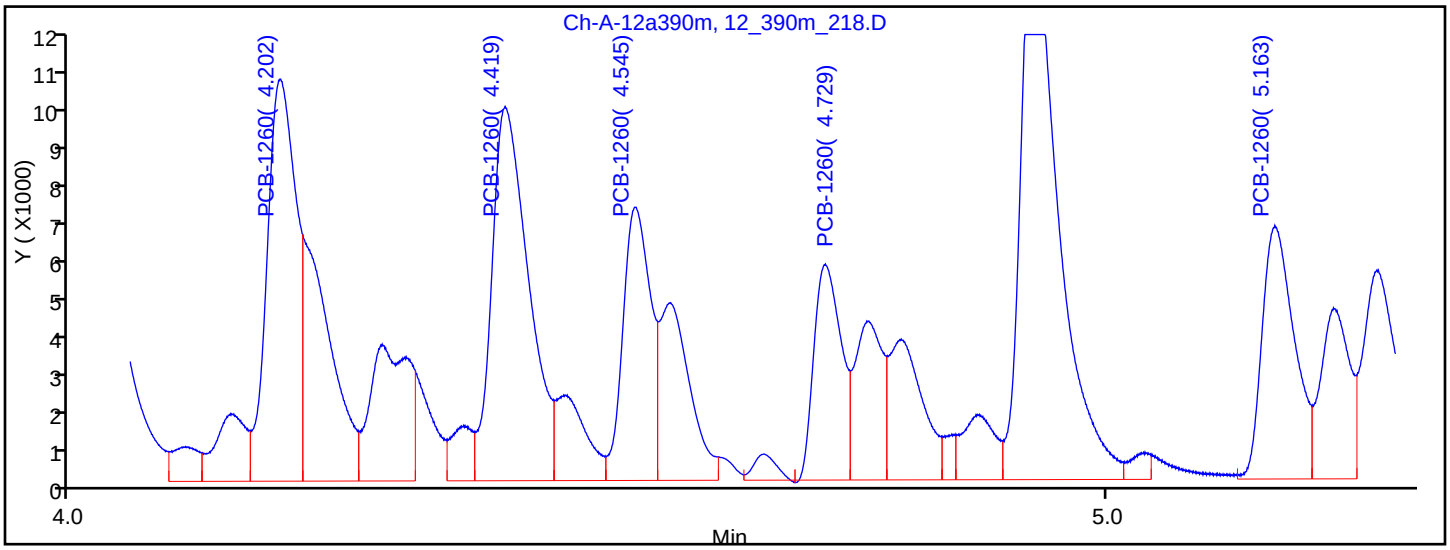
Column: Detector Ch-A-7A136

12 PCB-1260, CAS: 11096-82-5



Processing Integration Results

4.202	Response = 26055
4.419	Response = 19925
4.545	Response = 10831
4.729	Response = 9055
5.163	Response = 12027



Manual Integration Results

4.202	Response = 17798	M
4.419	Response = 21079	M
4.545	Response = 11503	M
4.729	Response = 9001	M
5.163	Response = 12480	M

Reviewer: owenj, 12-May-2017 15:35:04

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

TestAmerica Buffalo

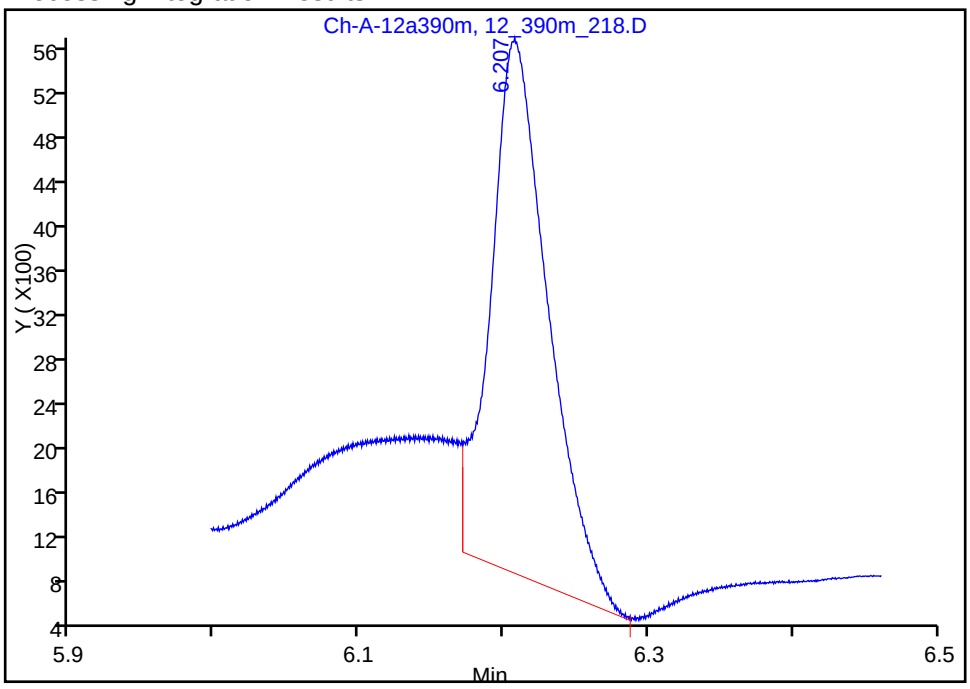
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Injection Date:	11-May-2017 17:07:37	Instrument ID:	HP5890-12		
Lims ID:	IC 3				
Client ID:					
Operator ID:	BufTCHROM	ALS Bottle#:	0	Worklist Smp#:	21
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	5890-12 PCB IS	Limit Group:	GC - 8082A PCB IS ICAL		
Column:		Detector	Ch-A-7A136		

$ 15 DCB Decachlorobiphenyl, CAS: 2051-24-3

Signal: 1

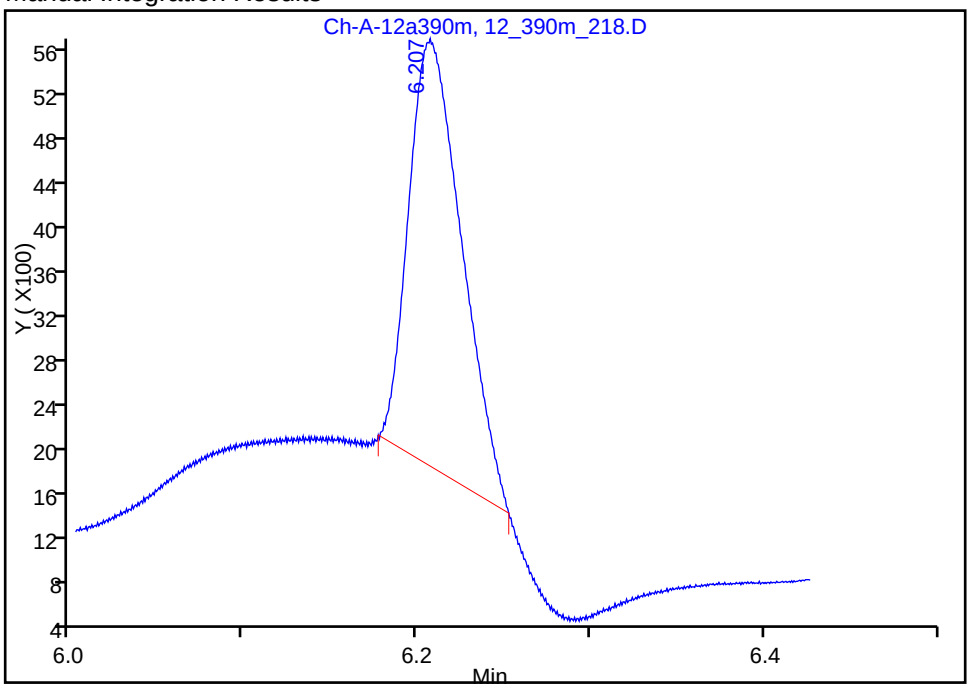
Processing Integration Results

RT: 6.21
Area: 13411
Amount: 0.003337
Amount Units: ng/uL



Manual Integration Results

RT: 6.21
Area: 8233
Amount: 0.002580
Amount Units: ng/uL



Reviewer: owenj, 12-May-2017 16:05:10
Audit Action: Manually Integrated Audit Reason: Baseline Smoothing

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170511-62436.b\12_390m_219.D
Lims ID: IC 2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 11-May-2017 17:22:58 ALS Bottle#: 0 Worklist Smp#: 22
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP5890-12
Sublist: chrom-5890-12 PCB IS*sub1

Method: \\ChromNA\Buffalo\ChromData\HP5890-12\20170511-62436.b\5890-12 PCB IS.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 15-May-2017 13:51:05 Calib Date: 12-May-2017 17:50:21
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170511-62436.b\12_390m_240.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK026

First Level Reviewer: owenj Date: 12-May-2017 15:36:55

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.319	1.319	0.000	1244433	0.5000	0.5000	
2	1.617	1.617	0.000	1106372	0.5000	0.5000	
						RPD = 0.00	
$ 6 Tetrachloro-m-xylene							M
1	1.917	1.917	0.000	2717	0.001250	0.001253	M
2	2.207	2.207	0.000	2787	0.001250	0.001484	M
						RPD = 16.89	
9 PCB-1016							M
1	2.127	2.123	0.004	3817	0.0500	0.0564	
1	2.508	2.505	0.003	3863	0.0500	0.0536	M
1	2.681	2.677	0.004	13140	0.0500	0.0535	M
1	2.755	2.751	0.004	5959	0.0500	0.0505	M
1	2.805	2.803	0.002	3582	0.0500	0.0544	M
		Average of Peak Amounts =				0.0537	
2	2.619	2.616	0.003	2939	0.0500	0.0492	M
2	2.941	2.936	0.005	5317	0.0500	0.0480	M
2	3.151	3.147	0.004	2551	0.0500	0.0463	M
2	3.251	3.246	0.005	9406	0.0500	0.0494	M
2	3.367	3.364	0.003	3531	0.0500	0.0476	M
		Average of Peak Amounts =				0.0481	
						RPD = 10.93	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
12 PCB-1260							M
1	4.193	4.187	0.006	9740	0.0500	0.0481	M
1	4.409	4.405	0.004	10306	0.0500	0.0450	M
1	4.535	4.531	0.004	5394	0.0500	0.0495	M
1	4.720	4.714	0.006	4723	0.0500	0.0551	
1	5.153	5.149	0.004	6147	0.0500	0.0414	
		Average of Peak Amounts =				0.0478	
2	5.135	5.130	0.005	6524	0.0500	0.0520	M
2	5.454	5.450	0.004	5220	0.0500	0.0457	M
2	5.521	5.518	0.003	3975	0.0500	0.0475	M
2	5.587	5.583	0.004	13176	0.0500	0.0474	M
2	5.959	5.955	0.004	8176	0.0500	0.0477	
		Average of Peak Amounts =				0.0481	
						RPD = 0.45	
$ 15 DCB Decachlorobiphenyl							M
1	6.195	6.192	0.003	3975	0.001250	0.001217	M
2	7.249	7.245	0.004	3763	0.001250	0.001177	
						RPD = 3.33	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

1660sur/is.05_00005 Amount Added: 1.00 Units: mL

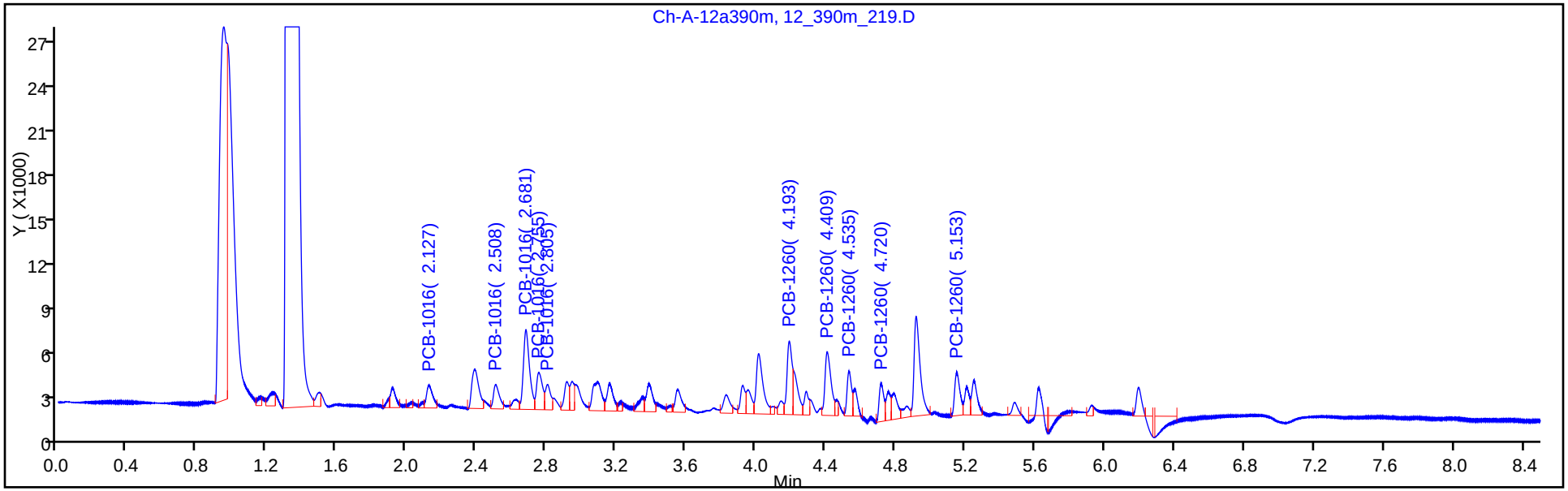
Report Date: 15-May-2017 13:51:05 Chrom Revision: 2.2 18-Apr-2017 07:43:58

TestAmerica Buffalo

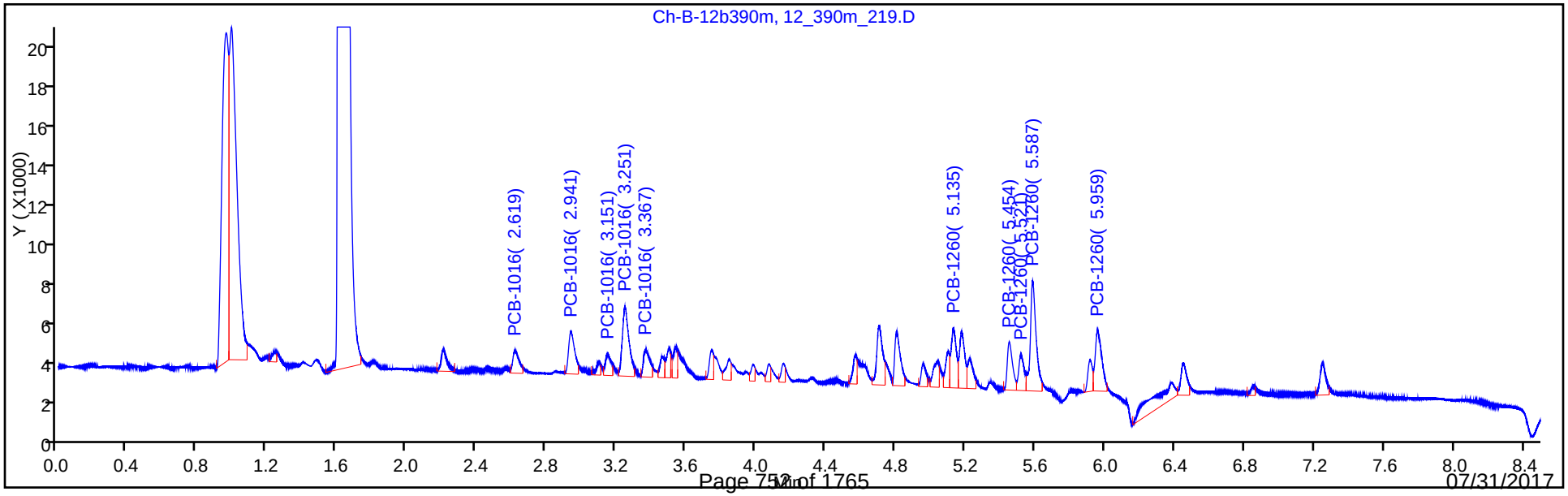
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Injection Date:	11-May-2017 17:22:58	Instrument ID:	HP5890-12	Operator ID:	BufTCHROM
Lims ID:	IC 2			Worklist Smp#:	22
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	5890-12 PCB IS	Limit Group:	GC - 8082A PCB IS ICAL		

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



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



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

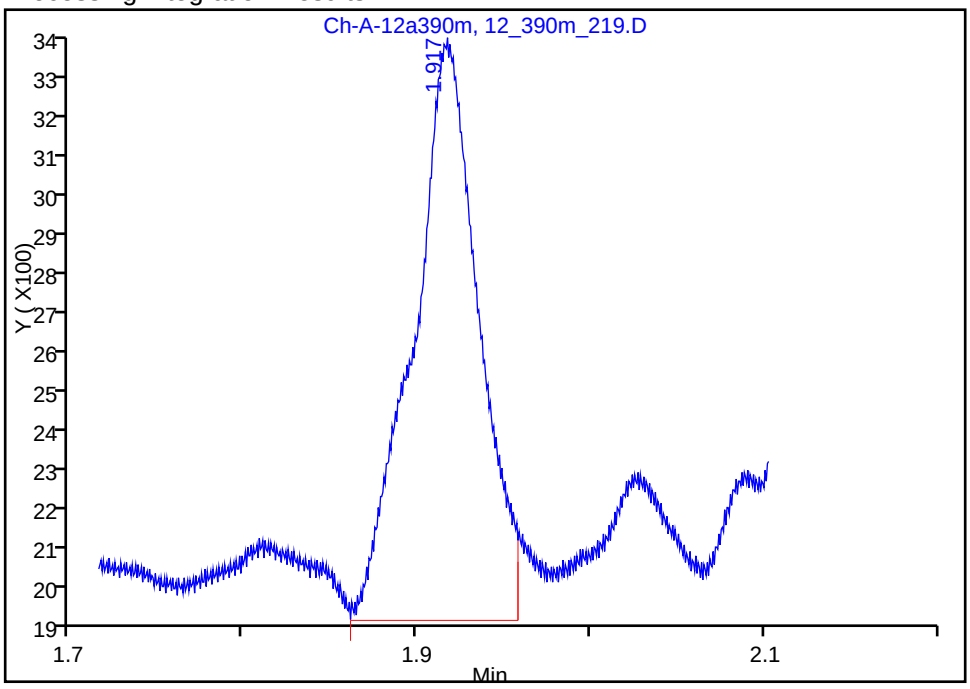
Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170511-62436.b\12_390m_219.D
Injection Date: 11-May-2017 17:22:58 Instrument ID: HP5890-12
Lims ID: IC 2
Client ID:
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 22
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 5890-12 PCB IS Limit Group: GC - 8082A PCB IS ICAL
Column: Detector Ch-A-7A136

$ 6 Tetrachloro-m-xylene, CAS: 877-09-8

Signal: 1

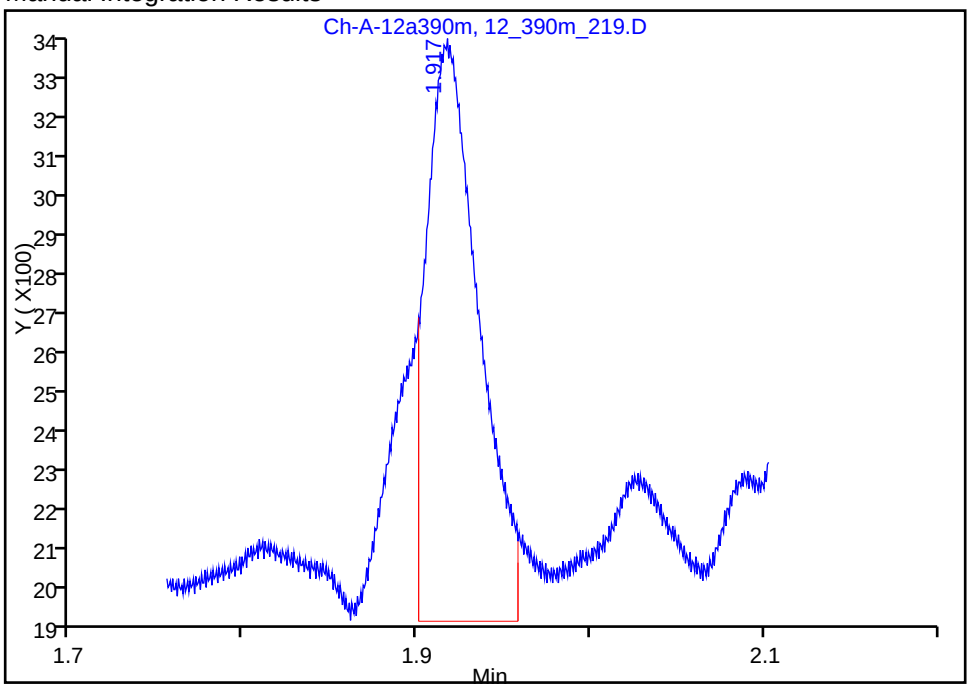
Processing Integration Results

RT: 1.92
Area: 3474
Amount: 0.001393
Amount Units: ng/uL



Manual Integration Results

RT: 1.92
Area: 2717
Amount: 0.001253
Amount Units: ng/uL



Reviewer: owenj, 12-May-2017 15:51:26
Audit Action: Split an Integrated Peak Audit Reason: Split Peak

Report Date: 15-May-2017 13:51:06 Chrom Revision: 2.2 18-Apr-2017 07:43:58

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170511-62436.b\12_390m_219.D

Injection Date: 11-May-2017 17:22:58 Instrument ID: HP5890-12

Lims ID: IC 2

Client ID:

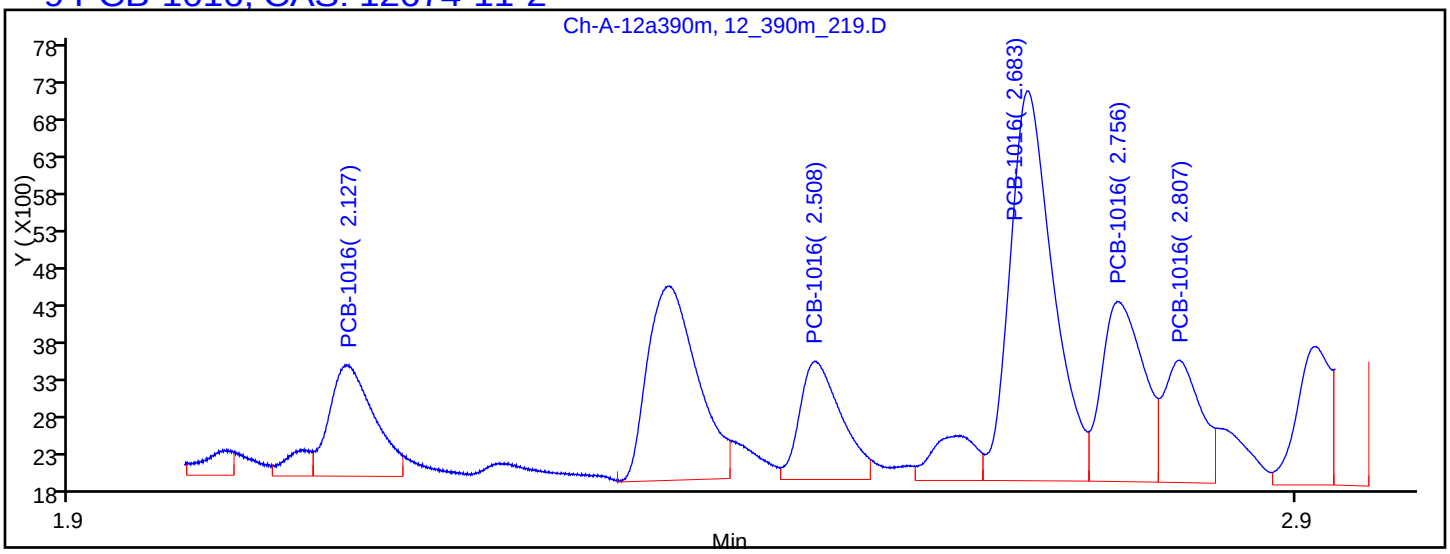
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 22

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 5890-12 PCB IS Limit Group: GC - 8082A PCB IS ICAL

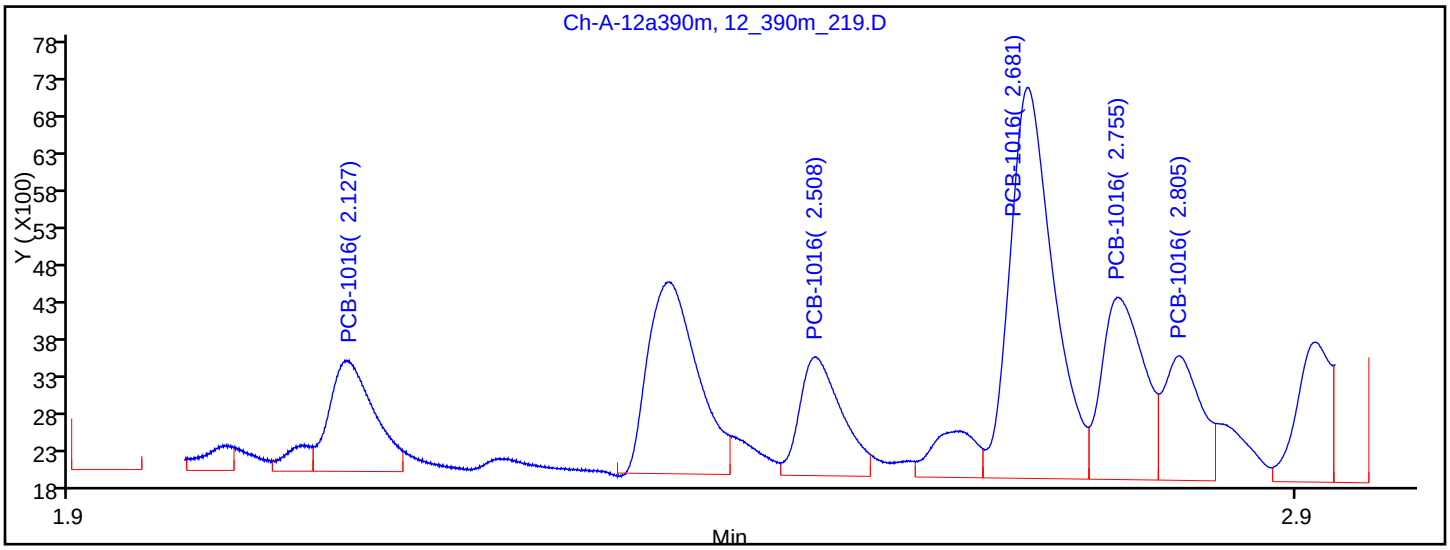
Column: Detector Ch-A-7A136

9 PCB-1016, CAS: 12674-11-2



Processing Integration Results

2.127	Response = 3817
2.508	Response = 3797
2.683	Response = 12961
2.756	Response = 5830
2.807	Response = 3484



Manual Integration Results

2.127	Response = 3817	
2.508	Response = 3863	M
2.681	Response = 13140	M
2.755	Response = 5959	M
2.805	Response = 3582	M

Reviewer: owenj, 12-May-2017 15:36:01

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

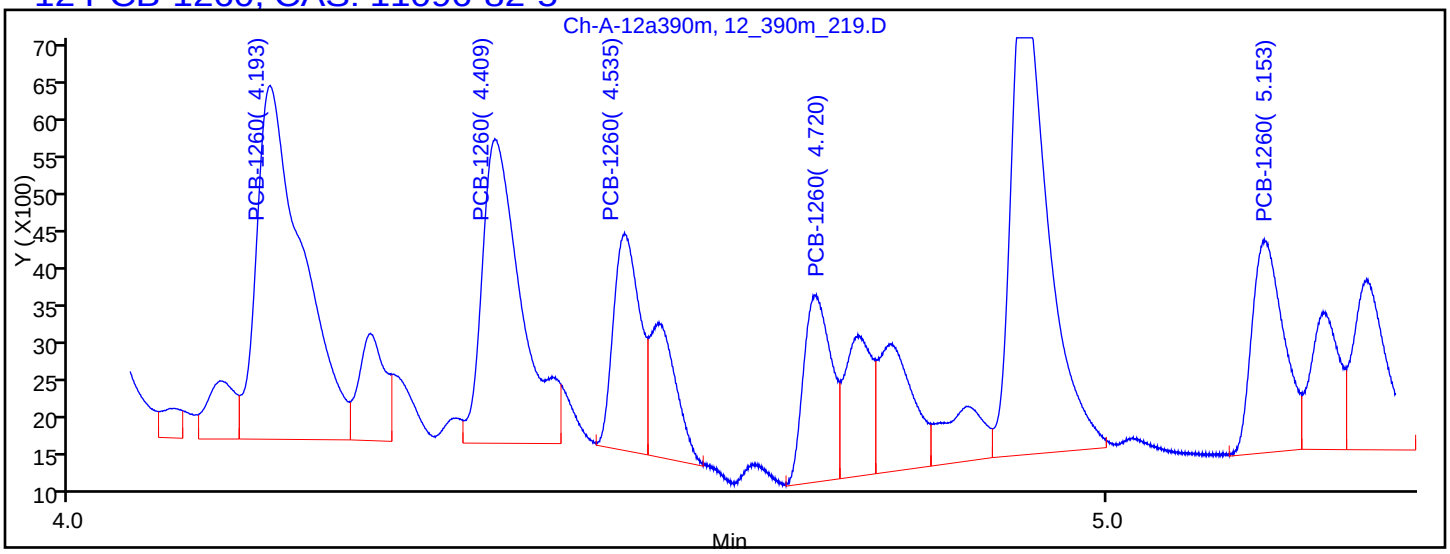
Report Date: 15-May-2017 13:51:06 Chrom Revision: 2.2 18-Apr-2017 07:43:58

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170511-62436.b\12_390m_219.D

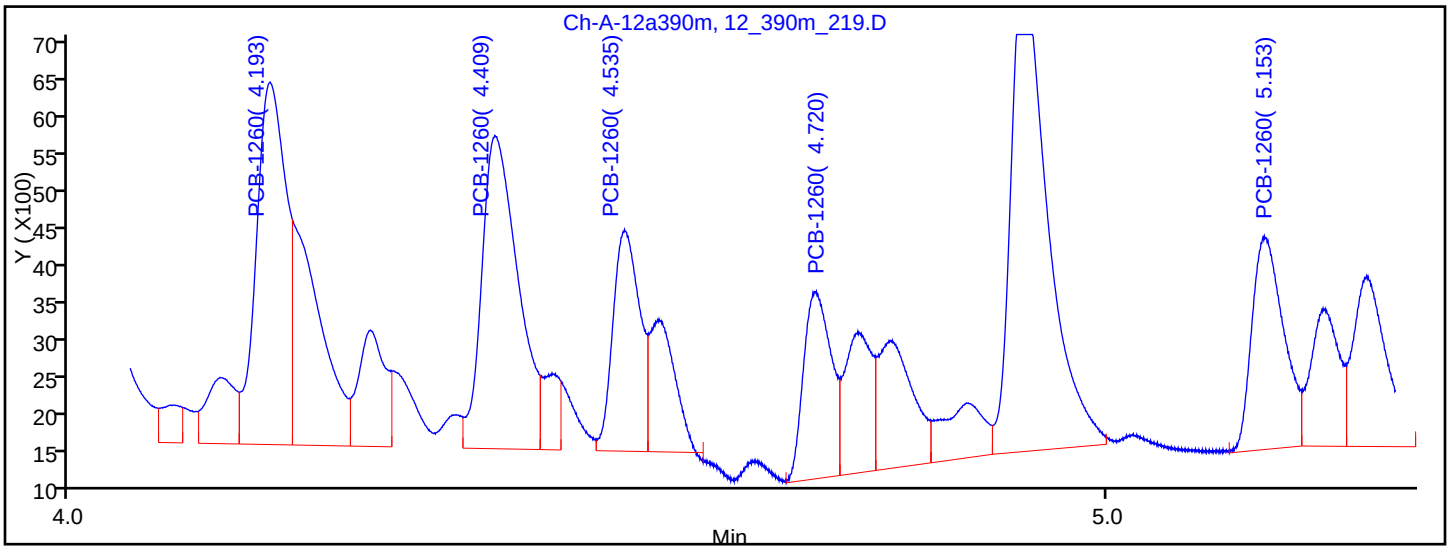
Injection Date:	11-May-2017 17:22:58	Instrument ID:	HP5890-12		
Lims ID:	IC 2				
Client ID:					
Operator ID:	BufTCHROM	ALS Bottle#:	0	Worklist Smp#:	22
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	5890-12 PCB IS	Limit Group:	GC - 8082A PCB IS ICAL		
Column:		Detector	Ch-A-7A136		

12 PCB-1260, CAS: 11096-82-5



Processing Integration Results

4.193	Response = 14758
4.409	Response = 10806
4.535	Response = 5215
4.720	Response = 4723
5.153	Response = 6147



Manual Integration Results

4.193	Response = 9740	M
4.409	Response = 10306	M
4.535	Response = 5394	M
4.720	Response = 4723	
5.153	Response = 6147	

Reviewer: owenj, 12-May-2017 15:36:04

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

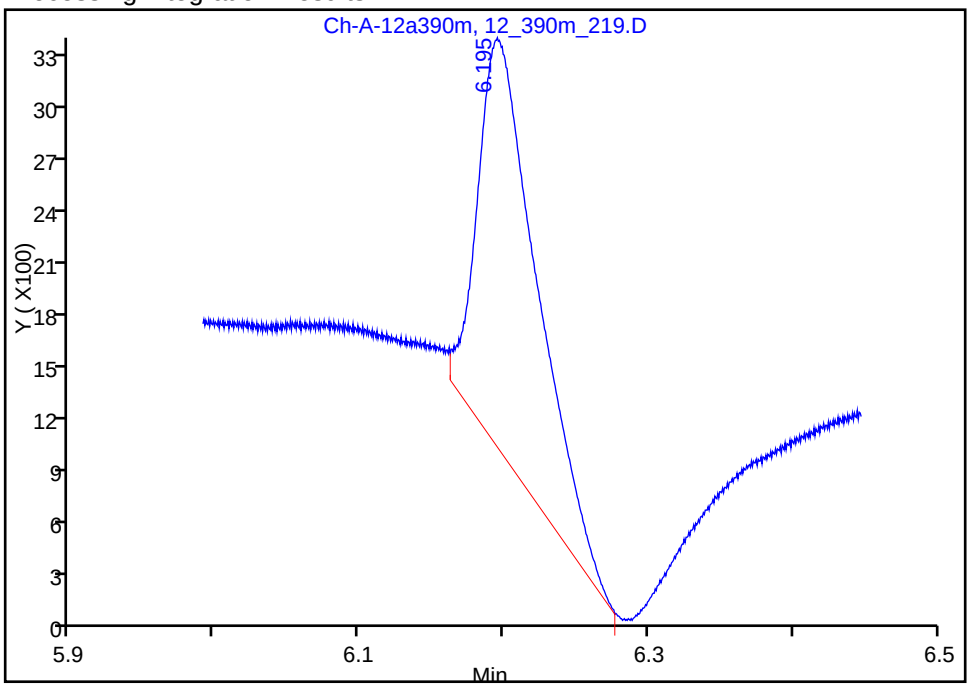
Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170511-62436.b\12_390m_219.D
Injection Date: 11-May-2017 17:22:58 Instrument ID: HP5890-12
Lims ID: IC 2
Client ID:
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 22
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 5890-12 PCB IS Limit Group: GC - 8082A PCB IS ICAL
Column: Detector Ch-A-7A136

$ 15 DCB Decachlorobiphenyl, CAS: 2051-24-3

Signal: 1

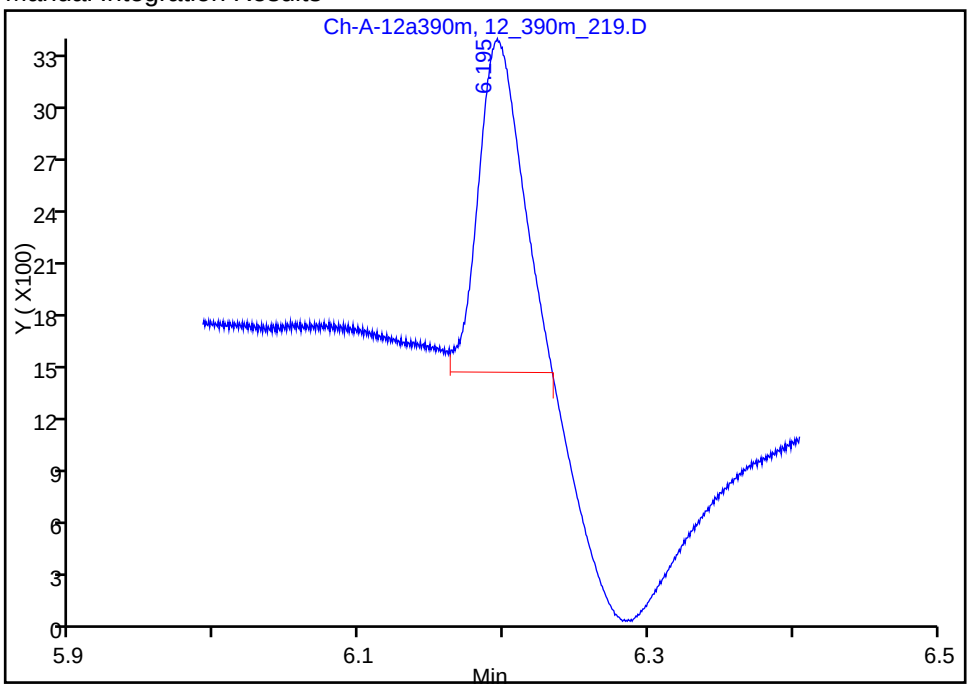
Processing Integration Results

RT: 6.20
Area: 6797
Amount: 0.001238
Amount Units: ng/uL



Manual Integration Results

RT: 6.20
Area: 3975
Amount: 0.001217
Amount Units: ng/uL



Reviewer: owenj, 12-May-2017 16:00:19
Audit Action: Split an Integrated Peak Audit Reason: Baseline Smoothing

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170511-62436.b\12_390m_220.D
Lims ID: IC 1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 11-May-2017 18:19:55 ALS Bottle#: 0 Worklist Smp#: 23
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP5890-12
Sublist: chrom-5890-12 PCB IS*sub1

Method: \\ChromNA\Buffalo\ChromData\HP5890-12\20170511-62436.b\5890-12 PCB IS.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 15-May-2017 13:51:08 Calib Date: 12-May-2017 17:50:21
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170511-62436.b\12_390m_240.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK026

First Level Reviewer: owenj Date: 11-May-2017 19:09:57

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.321	1.321	0.000	1258044	0.5000	0.5000	
2	1.618	1.618	0.000	1118954	0.5000	0.5000	
						RPD = 0.00	
$ 6 Tetrachloro-m-xylene							M
1	1.924	1.924	0.000	962	0.000500	0.000555	M
2	2.210	2.210	0.000	926	0.000500	0.000544	M
						RPD = 2.01	
9 PCB-1016							M
1	2.133	2.133	0.000	1232	0.0200	0.0180	M
1	2.515	2.515	0.000	1234	0.0200	0.0169	M
1	2.691	2.691	0.000	4764	0.0200	0.0192	M
1	2.767	2.767	0.000	2976	0.0200	0.0183	M
1	2.817	2.817	0.000	1510	0.0200	0.0186	M
		Average of Peak Amounts =				0.0182	
2	2.621	2.621	0.000	1614	0.0200	0.0188	M
2	2.943	2.943	0.000	2462	0.0200	0.0165	M
2	3.155	3.155	0.000	1211	0.0200	0.0228	M
2	3.254	3.254	0.000	4242	0.0200	0.0200	M
2	3.371	3.371	0.000	1657	0.0200	0.0221	M
		Average of Peak Amounts =				0.0200	
						RPD = 9.65	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
12 PCB-1260							M
1	4.204	4.204	0.000	5364	0.0200	0.0156	M
1	4.420	4.420	0.000	5599	0.0200	0.0198	M
1	4.547	4.547	0.000	1941	0.0200	0.0176	M
1	4.730	4.730	0.000	1257	0.0200	0.0169	M
1	5.163	5.163	0.000	4207	0.0200	0.0251	M
		Average of Peak Amounts =				0.0190	
2	5.139	5.139	0.000	2420	0.0200	0.0161	M
2	5.459	5.459	0.000	2743	0.0200	0.0193	M
2	5.528	5.528	0.000	1920	0.0200	0.0184	M
2	5.595	5.595	0.000	5759	0.0200	0.0181	M
2	5.967	5.967	0.000	3556	0.0200	0.0200	M
		Average of Peak Amounts =				0.0184	
						RPD = 3.25	
$ 15 DCB Decachlorobiphenyl							M
1	6.208	6.208	0.000	1677	0.000500	0.000508	M
2	7.261	7.261	0.000	1769	0.000500	0.000496	M
						RPD = 2.33	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

1660sur/is.02_00005 Amount Added: 1.00 Units: mL

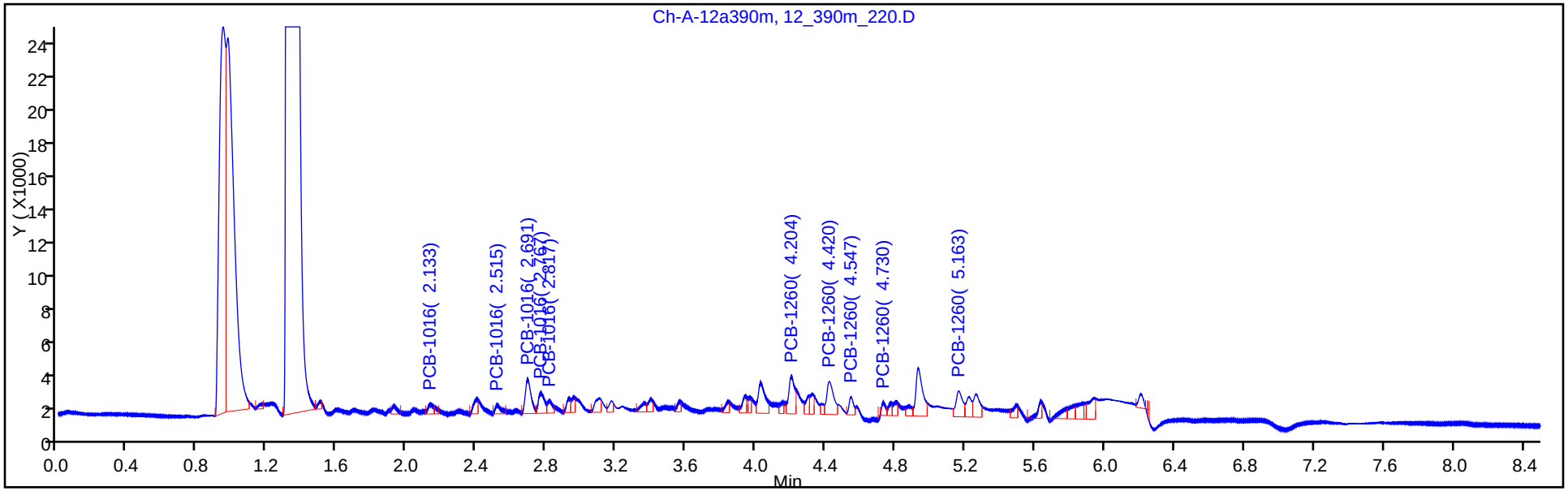
Report Date: 15-May-2017 13:51:09 Chrom Revision: 2.2 18-Apr-2017 07:43:58

TestAmerica Buffalo

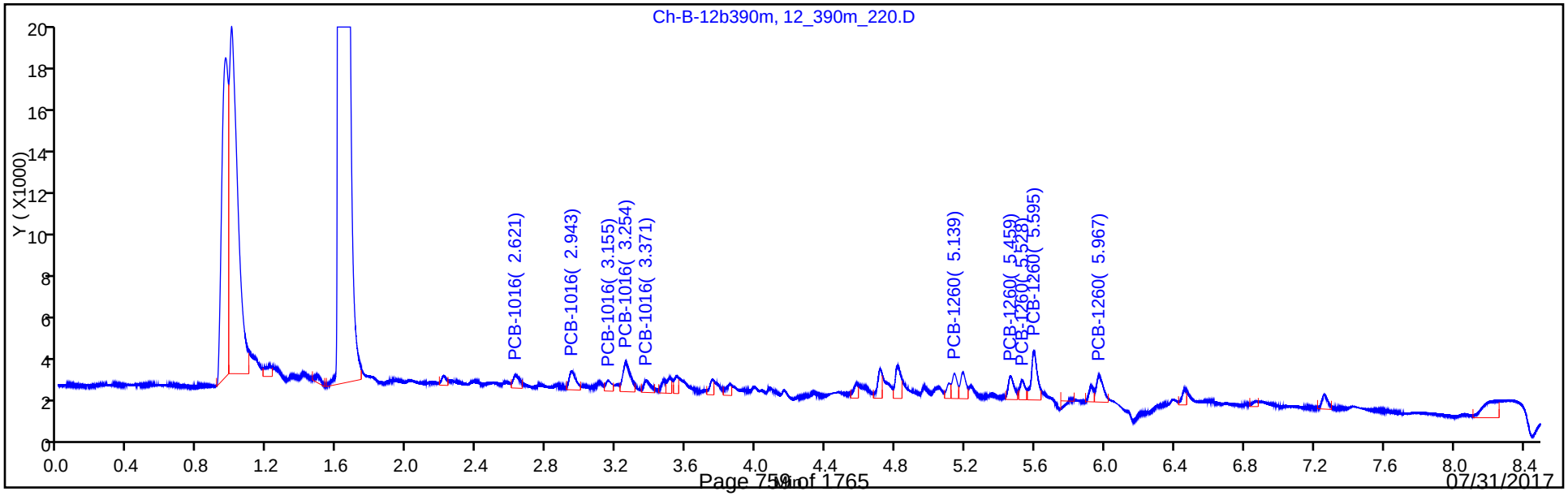
Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170511-62436.b\12_390m_220.D

Injection Date:	11-May-2017 18:19:55	Instrument ID:	HP5890-12	Operator ID:	BufTCHROM
Lims ID:	IC 1			Worklist Smp#:	23
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	5890-12 PCB IS	Limit Group:	GC - 8082A PCB IS ICAL		

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



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



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

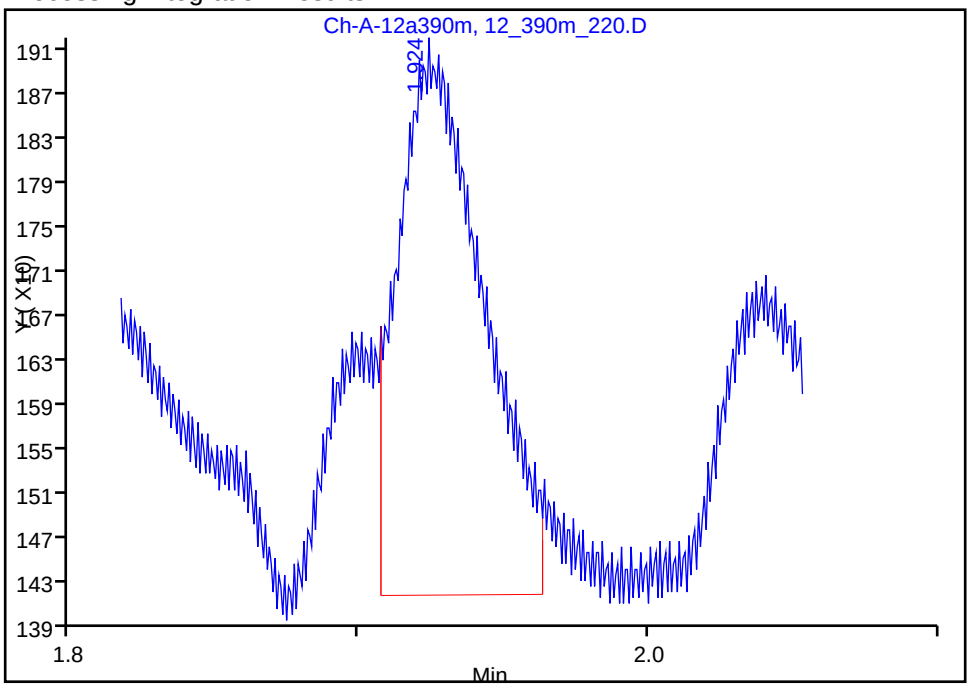
Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170511-62436.b\12_390m_220.D
Injection Date: 11-May-2017 18:19:55 Instrument ID: HP5890-12
Lims ID: IC 1
Client ID:
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 23
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 5890-12 PCB IS Limit Group: GC - 8082A PCB IS ICAL
Column: Detector Ch-A-7A136

$ 6 Tetrachloro-m-xylene, CAS: 877-09-8

Signal: 1

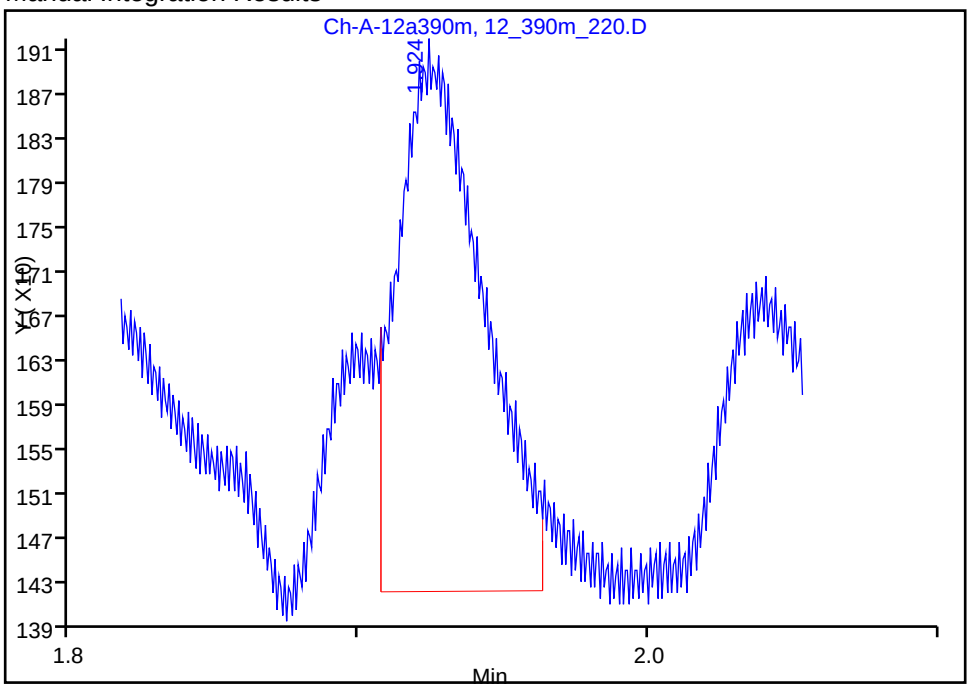
Processing Integration Results

RT: 1.92
Area: 975
Amount: 0.000460
Amount Units: ng/uL



Manual Integration Results

RT: 1.92
Area: 962
Amount: 0.000555
Amount Units: ng/uL



Reviewer: owenj, 12-May-2017 15:48:33
Audit Action: Assigned New Baseline Audit Reason: Split Peak

Report Date: 15-May-2017 13:51:09 Chrom Revision: 2.2 18-Apr-2017 07:43:58

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170511-62436.b\12_390m_220.D

Injection Date: 11-May-2017 18:19:55 Instrument ID: HP5890-12

Lims ID: IC 1

Client ID:

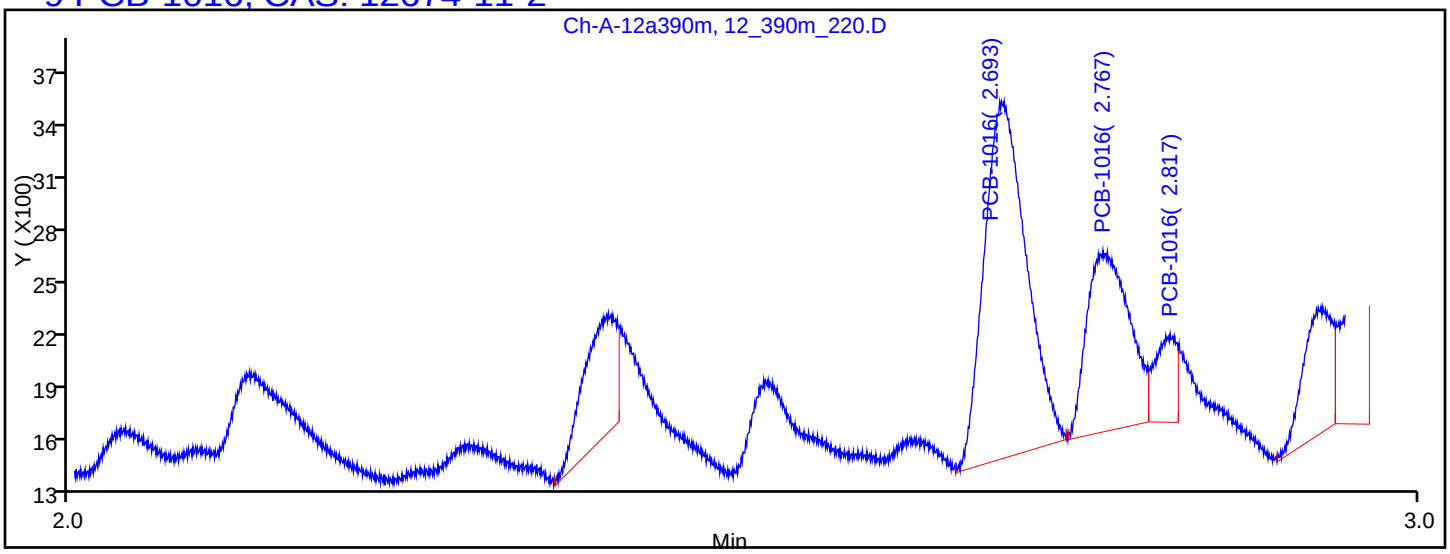
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 23

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 5890-12 PCB IS Limit Group: GC - 8082A PCB IS ICAL

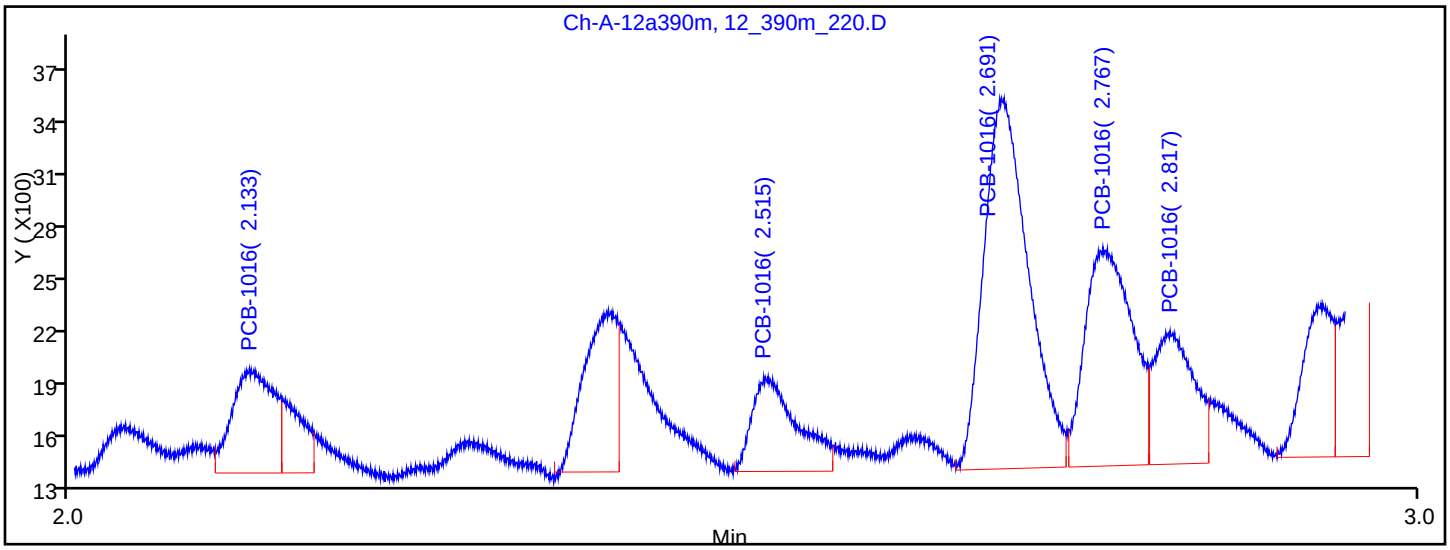
Column: Detector Ch-A-7A136

9 PCB-1016, CAS: 12674-11-2



Processing Integration Results

2.133	Response = 0
2.515	Response = 0
2.693	Response = 4331
2.767	Response = 2212
2.817	Response = 536



Manual Integration Results

2.133	Response = 1232	M
2.515	Response = 1234	M
2.691	Response = 4764	M
2.767	Response = 2976	M
2.817	Response = 1510	M

Reviewer: owenj, 12-May-2017 15:44:11

Audit Action: Assigned New Baseline Audit Reason: Split Peak

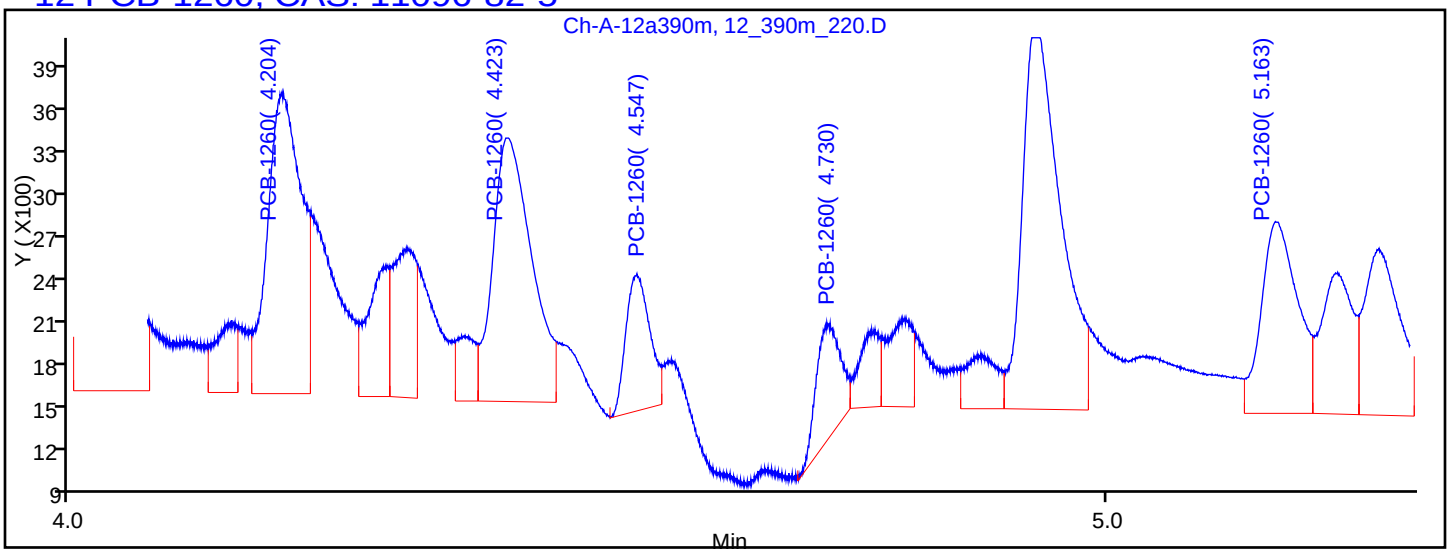
Report Date: 15-May-2017 13:51:09 Chrom Revision: 2.2 18-Apr-2017 07:43:58

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170511-62436.b\12_390m_220.D

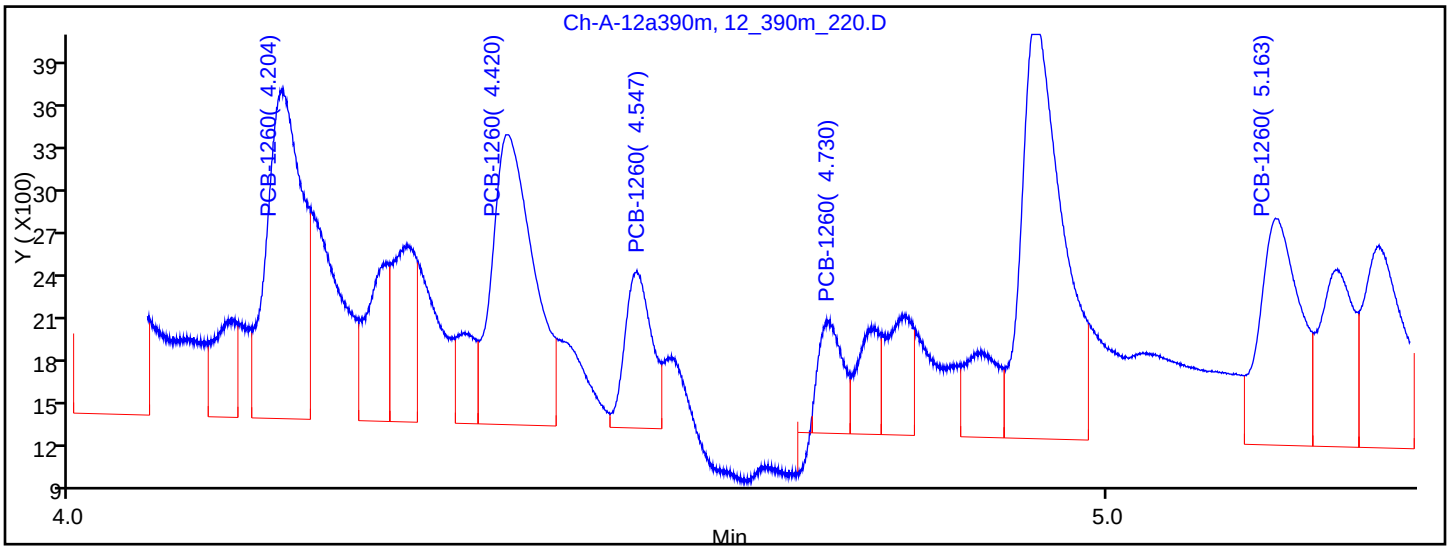
Injection Date:	11-May-2017 18:19:55	Instrument ID:	HP5890-12		
Lims ID:	IC 1				
Client ID:					
Operator ID:	BufTCHROM	ALS Bottle#:	0	Worklist Smp#:	23
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	5890-12 PCB IS	Limit Group:	GC - 8082A PCB IS ICAL		
Column:		Detector	Ch-A-7A136		

12 PCB-1260, CAS: 11096-82-5



Processing Integration Results

4.204	Response = 4701
4.423	Response = 4772
4.547	Response = 1524
4.730	Response = 1304
5.163	Response = 3247



Manual Integration Results

4.204	Response = 5364	M
4.420	Response = 5599	M
4.547	Response = 1941	M
4.730	Response = 1257	M
5.163	Response = 4207	M

Reviewer: owenj, 12-May-2017 15:56:39

Audit Action: Assigned New Baseline Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

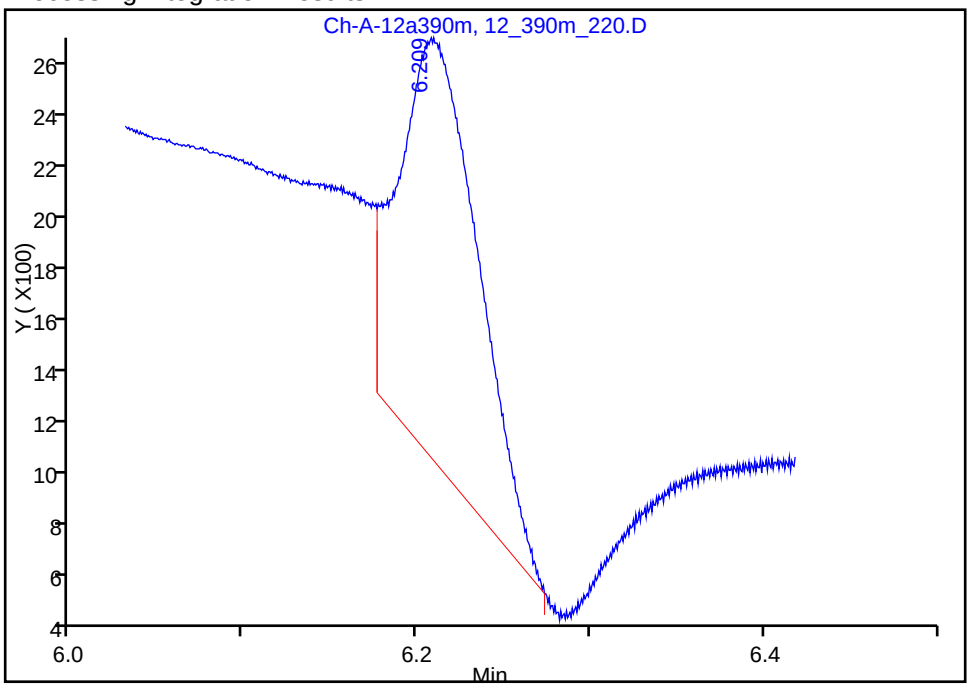
Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170511-62436.b\12_390m_220.D
Injection Date: 11-May-2017 18:19:55 Instrument ID: HP5890-12
Lims ID: IC 1
Client ID:
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 23
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 5890-12 PCB IS Limit Group: GC - 8082A PCB IS ICAL
Column: Detector Ch-A-7A136

$ 15 DCB Decachlorobiphenyl, CAS: 2051-24-3

Signal: 1

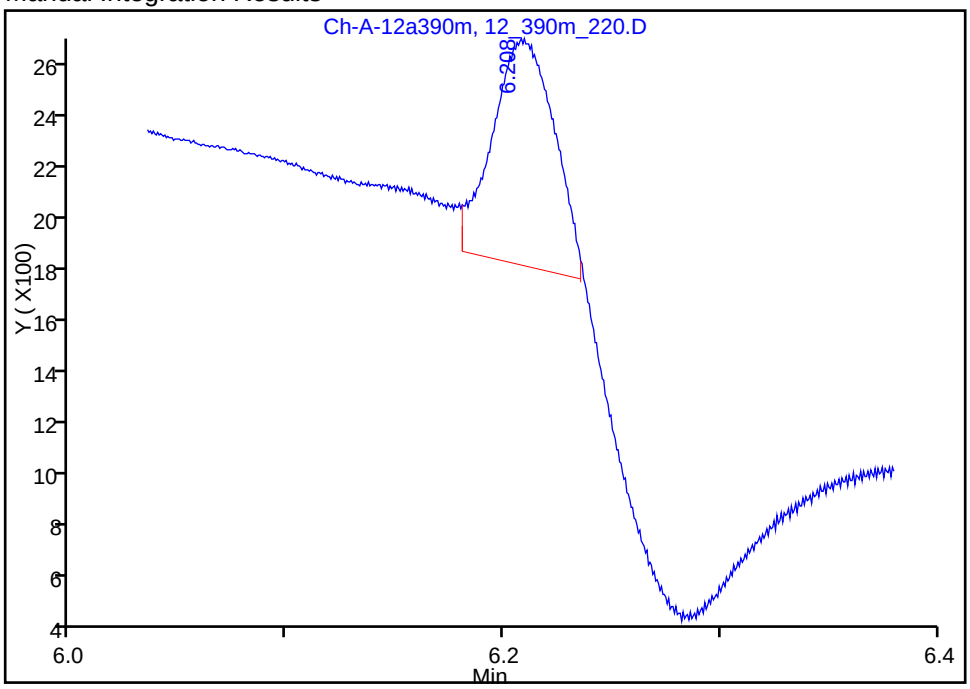
Processing Integration Results

RT: 6.21
Area: 5080
Amount: 0.000483
Amount Units: ng/uL



Manual Integration Results

RT: 6.21
Area: 1677
Amount: 0.000508
Amount Units: ng/uL



Reviewer: owenj, 12-May-2017 16:00:51
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

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

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1 Analy Batch No.: 356902

SDG No.:

Instrument ID: HP5890-12 GC Column: ZB-35 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/11/2017 15:46 Calibration End Date: 05/11/2017 18:19 Calibration ID: 30528

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-356902/23	12_390m_220.D
Level 2	IC 480-356902/22	12_390m_219.D
Level 3	IC 480-356902/21	12_390m_218.D
Level 4	IC 480-356902/20	12_390m_217.D
Level 5	ICIS 480-356902/19	12_390m_216.D
Level 6	IC 480-356902/18	12_390m_215.D
Level 7	IC 480-356902/17	12_390m_214.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								
PCB-1016 Peak 1	0.0361 0.0203	0.0266 0.0197	0.0227	0.0230	0.0221	Lin1	0.0003	0.0199							0.9990		0.9900
PCB-1016 Peak 2	0.0550 0.0422	0.0481 0.0402	0.0479	0.0481	0.0449	Lin1	0.0004	0.0413							0.9980		0.9900
PCB-1016 Peak 3	0.0271 0.0259	0.0231 0.0258	0.0206	0.0281	0.0272	Lin1	0	0.0261							0.9980		0.9900
PCB-1016 Peak 4	0.0948 0.0807	0.0850 0.0797	0.0809	0.0838	0.0819	Lin1	0.0003	0.0801							1.0000		0.9900
PCB-1016 Peak 5	0.0370 0.0332	0.0319 0.0328	0.0301	0.0353	0.0341	Ave		0.0335				6.7		20.0			
PCB-1260 Peak 1	0.0541 0.0528	0.0590 0.0511	0.0567	0.0590	0.0529	Lin1	0.0002	0.0520							0.9990		0.9900
PCB-1260 Peak 2	0.0613 0.0434	0.0472 0.0427	0.0474	0.0503	0.0437	Lin1	0.0004	0.0430							0.9990		0.9900
PCB-1260 Peak 3	0.0429 0.0325	0.0359 0.0320	0.0369	0.0356	0.0334	Lin1	0.0003	0.0323							0.9990		0.9900
PCB-1260 Peak 4	0.1287 0.1167	0.1191 0.1140	0.1324	0.1222	0.1168	Lin1	0.0005	0.1152							0.9990		0.9900
PCB-1260 Peak 5	0.0794 0.0764	0.0739 0.0759	0.0785	0.0782	0.0764	Lin1	0.0001	0.0761							1.0000		0.9900
Tetrachloro-m-xylene	0.8276 0.8817	1.0076 0.9296	0.7820	0.7573	0.8442	Lin1	0	0.8994							0.9970		0.9900
DCB Decachlorobiphenyl	1.5809 1.3523	1.3605 1.3237	1.4110	1.4044	1.3751	Lin1	0.0001	1.3368							1.0000		0.9900

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

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

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1 Analy Batch No.: 356902

SDG No.:

Instrument ID: HP5890-12 GC Column: ZB-35 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/11/2017 15:46 Calibration End Date: 05/11/2017 18:19 Calibration ID: 30528

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-356902/23	12_390m_220.D
Level 2	IC 480-356902/22	12_390m_219.D
Level 3	IC 480-356902/21	12_390m_218.D
Level 4	IC 480-356902/20	12_390m_217.D
Level 5	ICIS 480-356902/19	12_390m_216.D
Level 6	IC 480-356902/18	12_390m_215.D
Level 7	IC 480-356902/17	12_390m_214.D

ANALYTE	IS REF	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	BNB	Lin1	1614 44352	2939 83522	4852	10411	24469	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1016 Peak 2	BNB	Lin1	2462 92451	5317 170236	10245	21779	49784	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1016 Peak 3	BNB	Lin1	1211 56659	2551 109428	4397	12711	30139	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1016 Peak 4	BNB	Lin1	4242 176641	9406 338084	17306	37971	90874	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1016 Peak 5	BNB	Ave	1657 72644	3531 139181	6439	15981	37865	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1260 Peak 1	BNB	Lin1	2420 115663	6524 216459	12126	26704	58672	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1260 Peak 2	BNB	Lin1	2743 95144	5220 181227	10136	22758	48489	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1260 Peak 3	BNB	Lin1	1920 71243	3975 135872	7891	16127	37018	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1260 Peak 4	BNB	Lin1	5759 255646	13176 483176	28326	55320	129530	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1260 Peak 5	BNB	Lin1	3556 167370	8176 321662	16798	35418	84773	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
Tetrachloro-m-xylene	BNB	Lin1	926 48270	2787 98537	4181	8574	23415	0.000500 0.0250	0.00125 0.0500	0.00250	0.00500	0.0125
DCB Decachlorobiphenyl	BNB	Lin1	1769 74030	3763 140307	7544	15899	38140	0.000500 0.0250	0.00125 0.0500	0.00250	0.00500	0.0125

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170511-62436.b\12_390m_214.D
Lims ID: IC 7
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 11-May-2017 15:46:31 ALS Bottle#: 0 Worklist Smp#: 17
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP5890-12
Sublist: chrom-5890-12 PCB IS*sub1

Method: \\ChromNA\Buffalo\ChromData\HP5890-12\20170511-62436.b\5890-12 PCB IS.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 15-May-2017 13:50:46 Calib Date: 12-May-2017 17:50:21
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170511-62436.b\12_390m_240.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK026

First Level Reviewer: owenj Date: 15-May-2017 13:50:39

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.318	1.335	-0.017	1194213	0.5000	0.5000	
2	1.616	1.603	0.013	1059943	0.5000	0.5000	
						RPD = 0.00	
$ 6 Tetrachloro-m-xylene							M
1	1.916	1.892	0.024	119949	0.0500	0.0496	M
2	2.205	2.202	0.003	98537	0.0500	0.0518	
						RPD = 4.26	
9 PCB-1016							M
1	2.120	2.123	-0.003	113721	2.00	1.75	M
1	2.503	2.521	-0.018	130483	2.00	1.89	M
1	2.676	2.681	-0.005	430879	2.00	1.83	M
1	2.749	2.758	-0.009	175066	2.00	1.94	M
1	2.802	2.803	-0.001	109435	2.00	1.95	M
		Average of Peak Amounts =				1.87	
2	2.613	2.627	-0.014	83522	2.00	1.96	
2	2.933	2.938	-0.005	170236	2.00	1.93	M
2	3.146	3.146	0.000	109428	2.00	1.98	M
2	3.245	3.249	-0.004	338084	2.00	1.99	M
2	3.363	3.364	-0.001	139181	2.00	1.96	M
		Average of Peak Amounts =				1.96	
						RPD = 4.91	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
12 PCB-1260							M
1	4.186	4.185	0.001	260007	2.00	1.96	M
1	4.404	4.402	0.002	357275	2.00	1.96	M
1	4.530	4.563	-0.033	196587	2.00	1.88	M
1	4.713	4.711	0.002	171815	2.00	1.97	M
1	5.149	5.146	0.003	234875	2.00	2.01	M
		Average of Peak Amounts =				1.96	
2	5.129	5.128	0.001	216459	2.00	1.96	M
2	5.449	5.448	0.001	181227	2.00	1.98	M
2	5.517	5.515	0.002	135872	2.00	1.98	M
2	5.583	5.581	0.002	483176	2.00	1.97	M
2	5.956	5.954	0.002	321662	2.00	1.99	M
		Average of Peak Amounts =				1.98	
						RPD = 1.00	
$ 15 DCB Decachlorobiphenyl							
1	6.193	6.187	0.006	157874	0.0500	0.0504	
2	7.247	7.248	-0.001	140307	0.0500	0.0494	
						RPD = 1.89	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

1660sur/is2.0_00005 Amount Added: 1.00 Units: mL

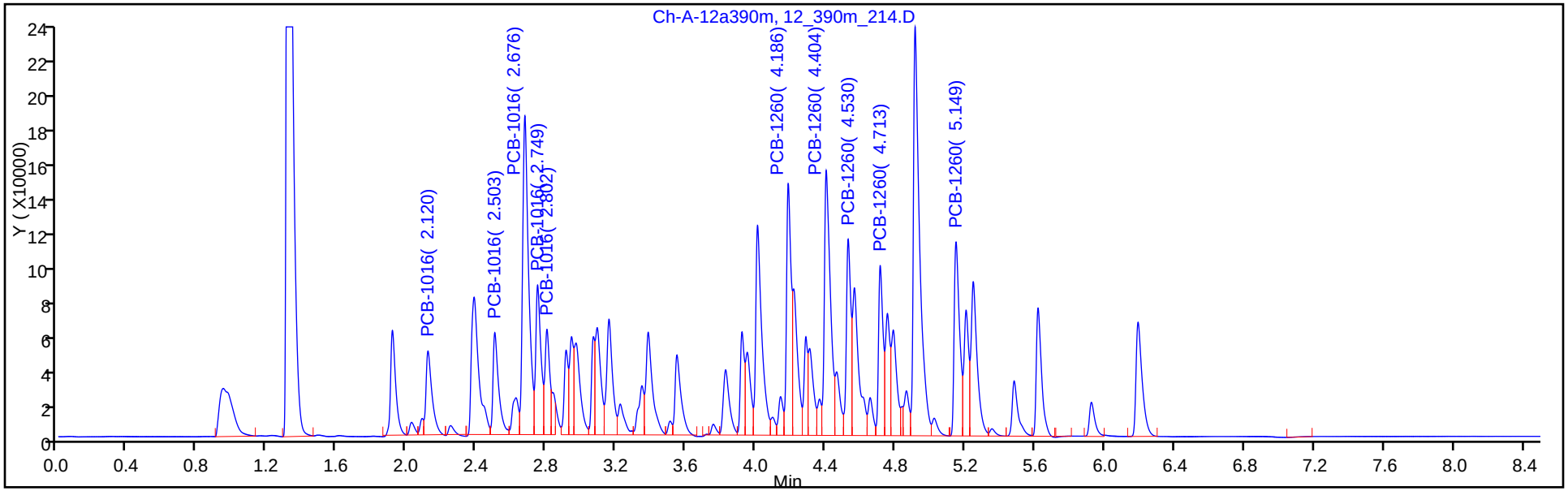
Report Date: 15-May-2017 13:50:47 Chrom Revision: 2.2 18-Apr-2017 07:43:58

TestAmerica Buffalo

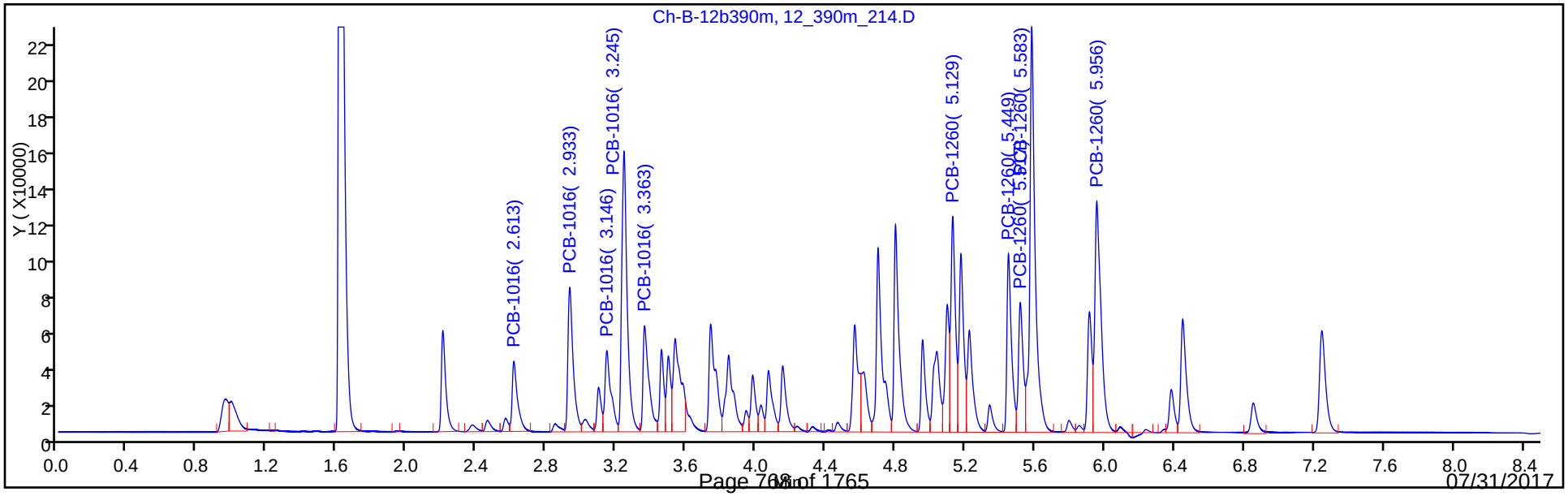
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Injection Date:	11-May-2017 15:46:31	Instrument ID:	HP5890-12	Operator ID:	BufTCHROM
Lims ID:	IC 7			Worklist Smp#:	17
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	5890-12 PCB IS	Limit Group:	GC - 8082A PCB IS ICAL		

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



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



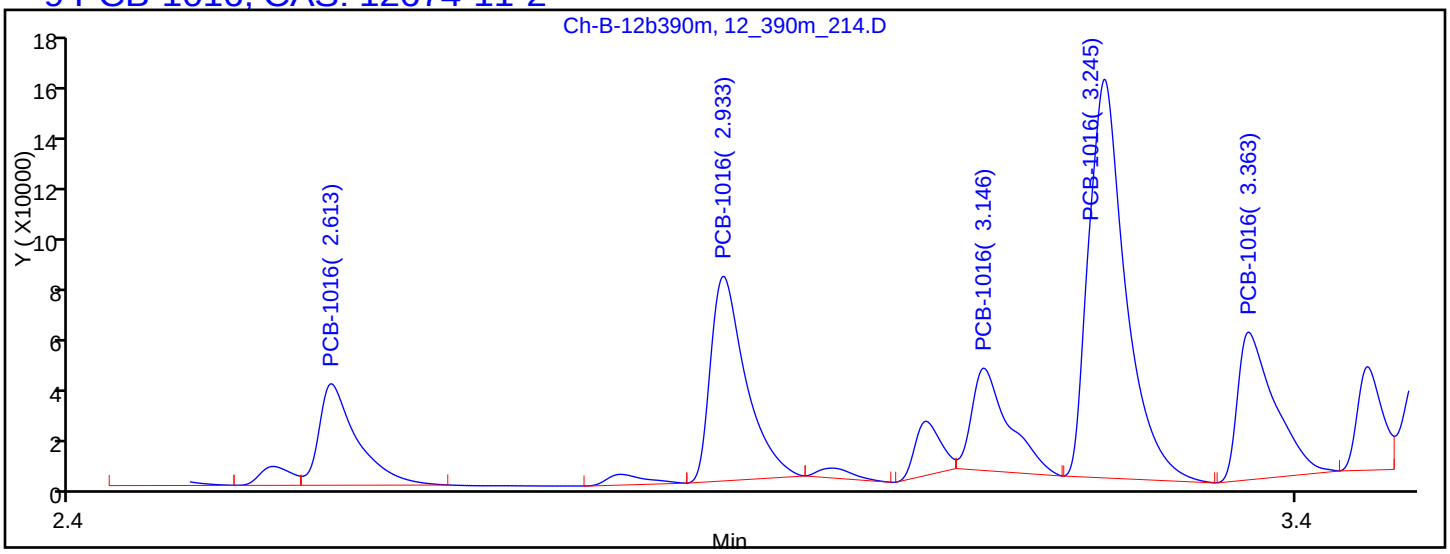
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TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170511-62436.b\12_390m_214.D

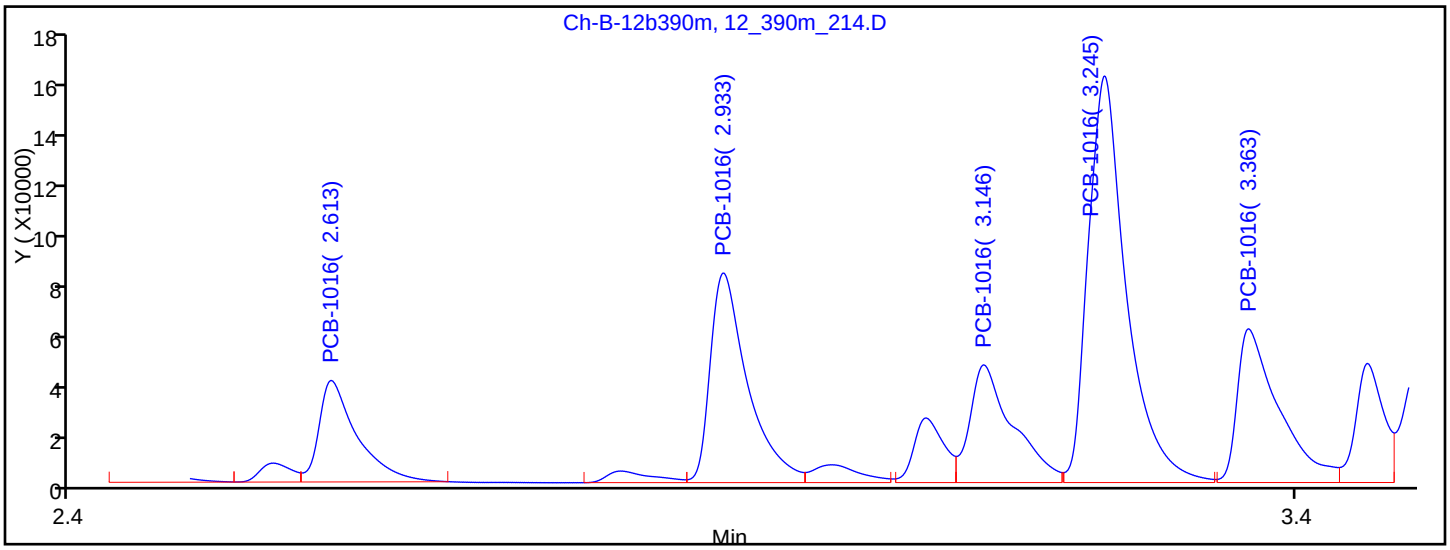
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Lims ID:	IC 7				
Client ID:					
Operator ID:	BufTCHROM	ALS Bottle#:	0	Worklist Smp#:	17
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	5890-12 PCB IS	Limit Group:	GC - 8082A PCB IS ICAL		
Column:		Detector	Ch-B-7b136		

9 PCB-1016, CAS: 12674-11-2



Processing Integration Results

2.613	Response = 83522
2.933	Response = 156237
3.146	Response = 82525
3.245	Response = 320180
3.363	Response = 118889



Manual Integration Results

2.613	Response = 83522	
2.933	Response = 170236	M
3.146	Response = 109428	M
3.245	Response = 338084	M
3.363	Response = 139181	M

Reviewer: owenj, 11-May-2017 16:53:05

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

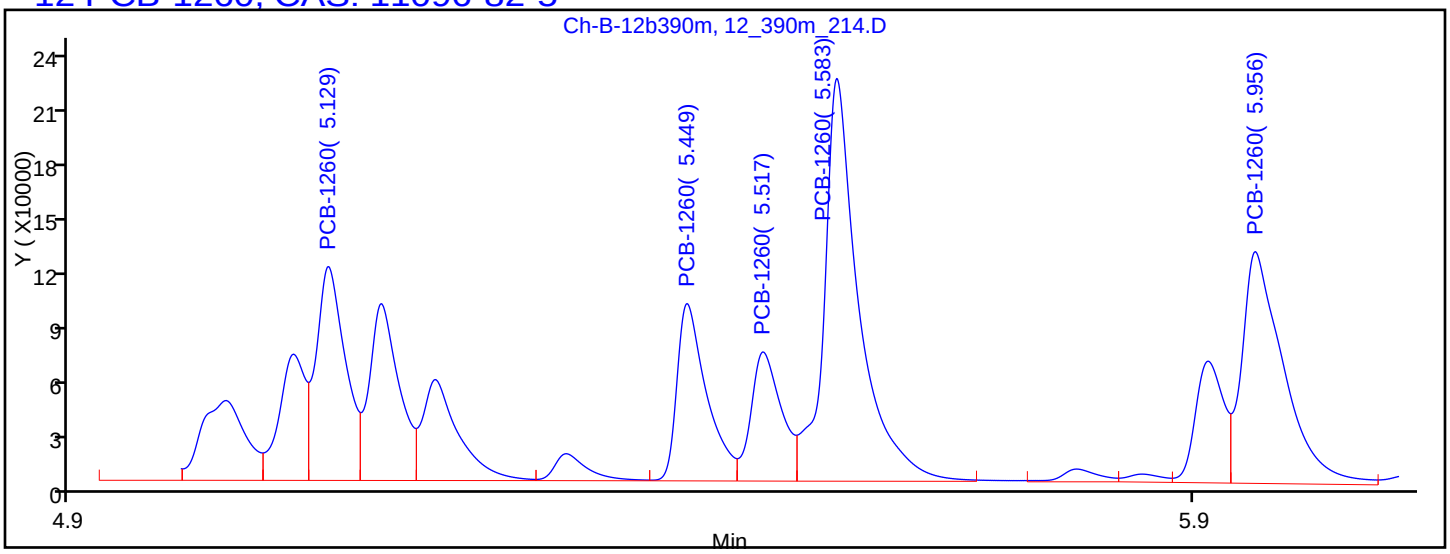
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TestAmerica Buffalo

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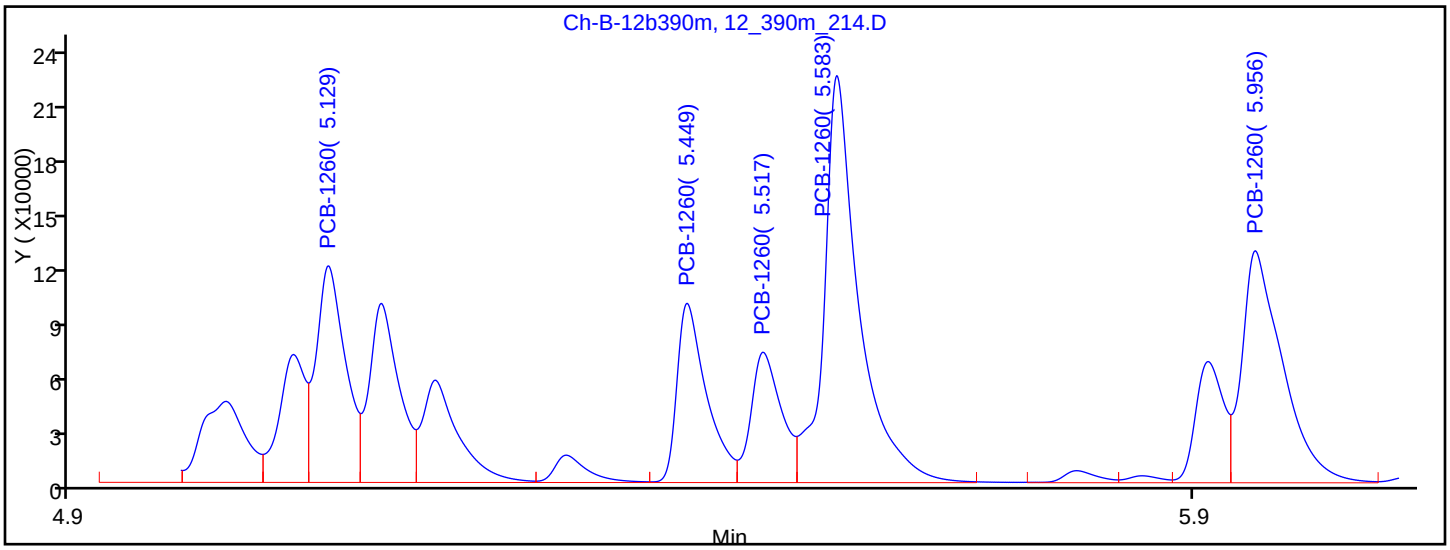
Injection Date:	11-May-2017 15:46:31	Instrument ID:	HP5890-12		
Lims ID:	IC 7				
Client ID:					
Operator ID:	BufTCHROM	ALS Bottle#:	0	Worklist Smp#:	17
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	5890-12 PCB IS	Limit Group:	GC - 8082A PCB IS ICAL		
Column:		Detector	Ch-B-7b136		

12 PCB-1260, CAS: 11096-82-5



Processing Integration Results

5.129	Response = 216069
5.449	Response = 181435
5.517	Response = 136296
5.583	Response = 485154
5.956	Response = 334613



Manual Integration Results

5.129	Response = 216459	M
5.449	Response = 181227	M
5.517	Response = 135872	M
5.583	Response = 483176	M
5.956	Response = 321662	M

Reviewer: owenj, 11-May-2017 16:53:10

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170511-62436.b\12_390m_215.D
Lims ID: IC 6
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 11-May-2017 16:01:52 ALS Bottle#: 0 Worklist Smp#: 18
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP5890-12
Sublist: chrom-5890-12 PCB IS*sub1

Method: \\ChromNA\Buffalo\ChromData\HP5890-12\20170511-62436.b\5890-12 PCB IS.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 15-May-2017 13:50:50 Calib Date: 12-May-2017 17:50:21
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170511-62436.b\12_390m_240.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK026

First Level Reviewer: owenj Date: 12-May-2017 15:33:10

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.318	1.335	-0.017	1225188	0.5000	0.5000	
2	1.616	1.603	0.013	1094893	0.5000	0.5000	
						RPD = 0.00	
$ 6 Tetrachloro-m-xylene							M
1	1.917	1.892	0.025	64039	0.0250	0.0259	M
2	2.207	2.202	0.005	48270	0.0250	0.0246	
						RPD = 5.18	
9 PCB-1016							M
1	2.121	2.123	-0.002	66140	1.00	0.99	M
1	2.504	2.521	-0.017	72358	1.00	1.02	M
1	2.677	2.681	-0.004	235761	1.00	0.9741	M
1	2.750	2.758	-0.008	96162	1.00	1.03	M
1	2.803	2.803	0.000	60376	1.00	1.04	M
		Average of Peak Amounts =				1.01	
2	2.615	2.627	-0.012	44352	1.00	1.00	
2	2.935	2.938	-0.003	92451	1.00	1.01	M
2	3.147	3.146	0.001	56659	1.00	1.00	M
2	3.246	3.249	-0.003	176641	1.00	1.00	M
2	3.364	3.364	0.000	72644	1.00	0.99	M
		Average of Peak Amounts =				1.00	
						RPD = 1.27	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
12 PCB-1260							M
1	4.187	4.185	0.002	134181	1.00	0.9760	M
1	4.404	4.402	0.002	192588	1.00	1.03	M
1	4.530	4.563	-0.033	107623	1.00	1.00	M
1	4.715	4.711	0.004	91027	1.00	1.02	M
1	5.149	5.146	0.003	122865	1.00	1.02	M
		Average of Peak Amounts =				1.01	
2	5.130	5.128	0.002	115663	1.00	1.01	
2	5.451	5.448	0.003	95144	1.00	1.00	
2	5.517	5.515	0.002	71243	1.00	1.00	
2	5.583	5.581	0.002	255646	1.00	1.01	
2	5.956	5.954	0.002	167370	1.00	1.00	
		Average of Peak Amounts =				1.00	
						RPD = 0.38	
$ 15 DCB Decachlorobiphenyl							M
1	6.194	6.187	0.007	81549	0.0250	0.0254	M
2	7.247	7.248	-0.001	74030	0.0250	0.0252	
						RPD = 0.64	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

1660sur/is1.0_00006 Amount Added: 1.00 Units: mL

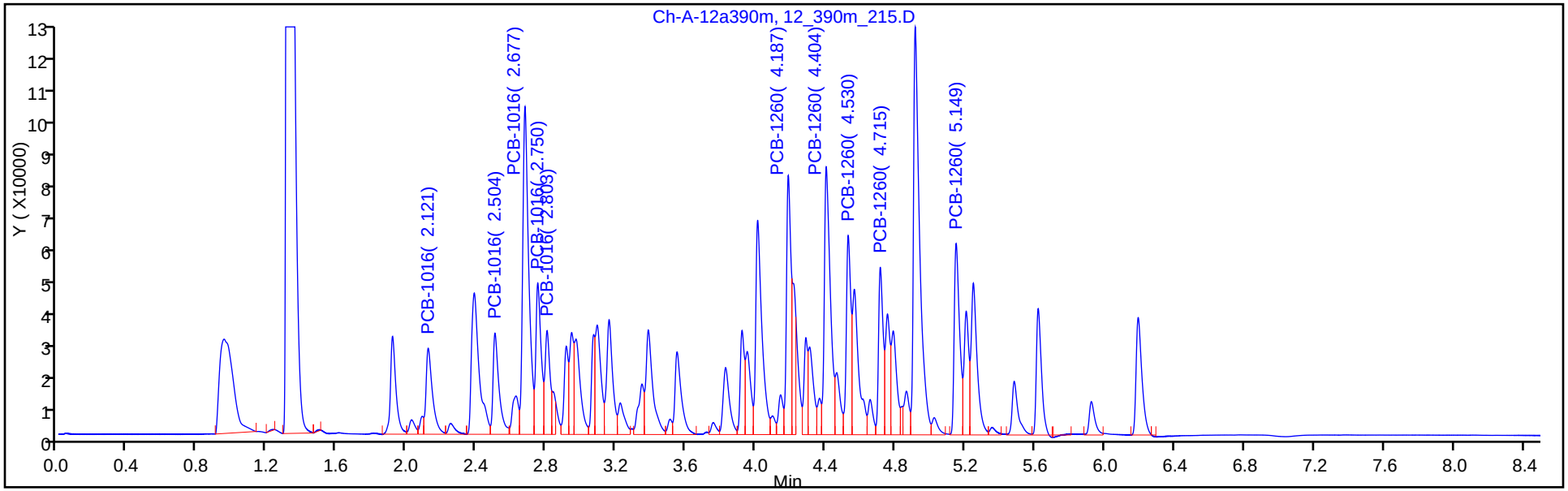
Report Date: 15-May-2017 13:50:51 Chrom Revision: 2.2 18-Apr-2017 07:43:58

TestAmerica Buffalo

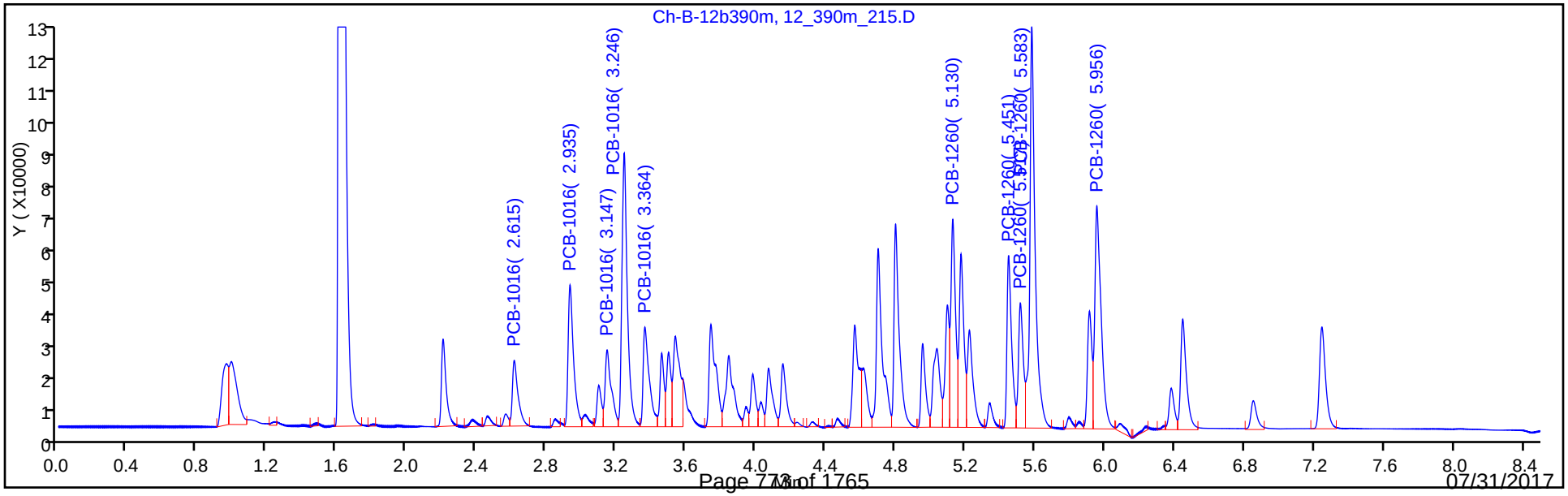
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Injection Date:	11-May-2017 16:01:52	Instrument ID:	HP5890-12	Operator ID:	BufTCHROM
Lims ID:	IC 6			Worklist Smp#:	18
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	5890-12 PCB IS	Limit Group:	GC - 8082A PCB IS ICAL		

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



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



Report Date: 15-May-2017 13:50:51 Chrom Revision: 2.2 18-Apr-2017 07:43:58

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170511-62436.b\12_390m_215.D

Injection Date: 11-May-2017 16:01:52 Instrument ID: HP5890-12

Lims ID: IC 6

Client ID:

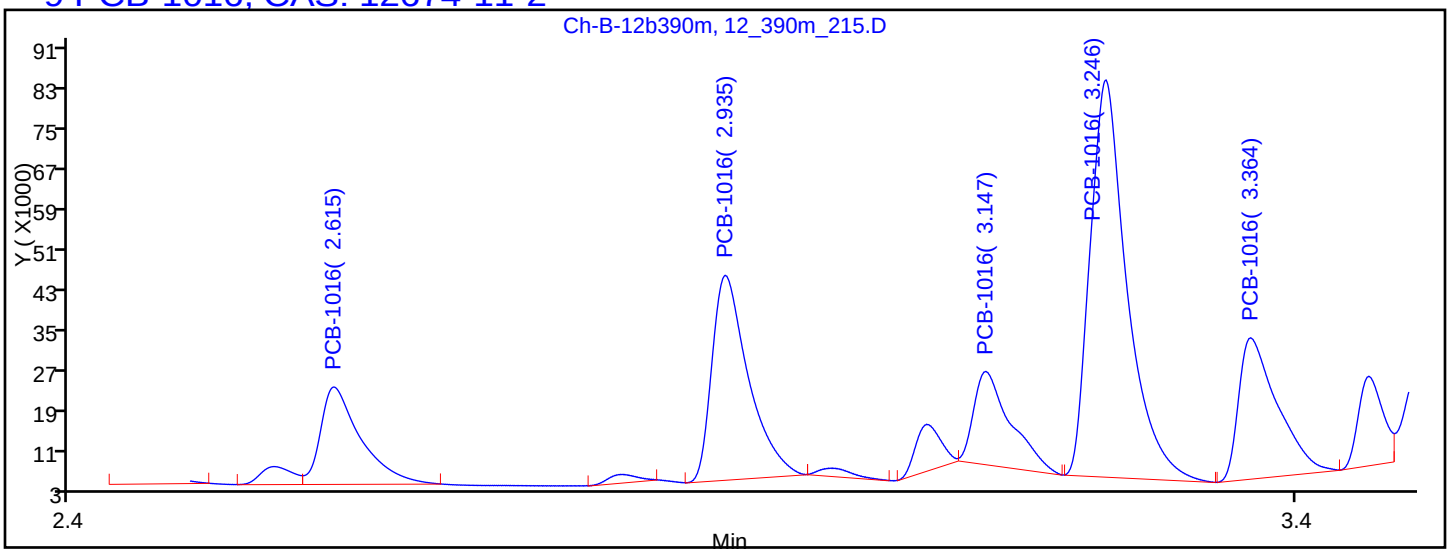
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 18

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 5890-12 PCB IS Limit Group: GC - 8082A PCB IS ICAL

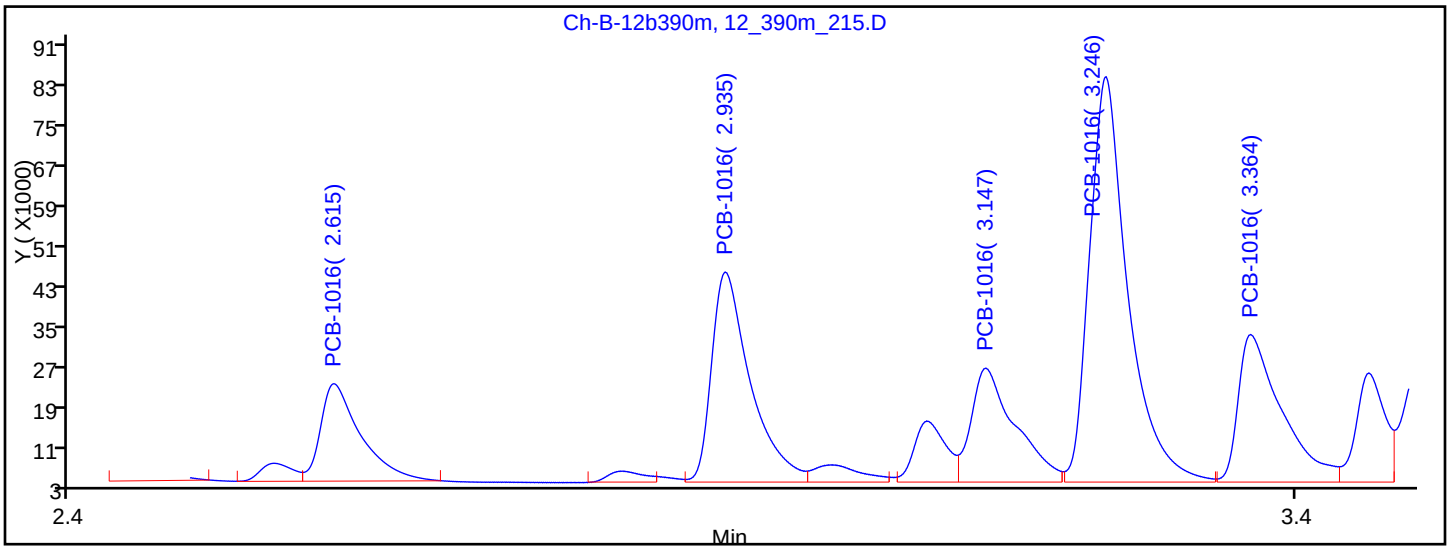
Column: Detector Ch-B-7b136

9 PCB-1016, CAS: 12674-11-2



Processing Integration Results

2.615	Response = 44352
2.935	Response = 84657
3.147	Response = 39131
3.246	Response = 167029
3.364	Response = 61955



Manual Integration Results

2.615	Response = 44352	
2.935	Response = 92451	M
3.147	Response = 56659	M
3.246	Response = 176641	M
3.364	Response = 72644	M

Reviewer: owenj, 12-May-2017 15:32:44

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170511-62436.b\12_390m_216.D
Lims ID: ICIS 5
Client ID:
Sample Type: ICIS Calib Level: 5
Inject. Date: 11-May-2017 16:17:12 ALS Bottle#: 0 Worklist Smp#: 19
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP5890-12
Sublist: chrom-5890-12 PCB IS*sub1

Method: \\ChromNA\Buffalo\ChromData\HP5890-12\20170511-62436.b\5890-12 PCB IS.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 15-May-2017 13:50:53 Calib Date: 12-May-2017 17:50:21
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170511-62436.b\12_390m_240.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK026

First Level Reviewer: owenj Date: 12-May-2017 15:33:58

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.319	1.319	0.000	1242256	0.5000	0.5000	
2	1.617	1.617	0.000	1109432	0.5000	0.5000	
						RPD = 0.00	
$ 6 Tetrachloro-m-xylene							M
1	1.917	1.917	0.000	30459	0.0125	0.0122	M
2	2.207	2.207	0.000	23415	0.0125	0.0118	M
						RPD = 3.56	
9 PCB-1016							M
1	2.123	2.123	0.000	34907	0.5000	0.5166	M
1	2.505	2.505	0.000	37488	0.5000	0.5210	M
1	2.677	2.677	0.000	123085	0.5000	0.5016	M
1	2.751	2.751	0.000	49584	0.5000	0.5186	M
1	2.803	2.803	0.000	30097	0.5000	0.5096	M
		Average of Peak Amounts =				0.5135	
2	2.616	2.616	0.000	24469	0.5000	0.5356	M
2	2.936	2.936	0.000	49784	0.5000	0.5328	M
2	3.147	3.147	0.000	30139	0.5000	0.5235	M
2	3.246	3.246	0.000	90874	0.5000	0.5075	M
2	3.364	3.364	0.000	37865	0.5000	0.5095	M
		Average of Peak Amounts =				0.5218	
						RPD = 1.60	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
12 PCB-1260							M
1	4.187	4.187	0.000	75072	0.5000	0.5281	M
1	4.405	4.405	0.000	97345	0.5000	0.5064	
1	4.531	4.531	0.000	55281	0.5000	0.5087	
1	4.714	4.714	0.000	45564	0.5000	0.5047	
1	5.149	5.149	0.000	60333	0.5000	0.4889	M
		Average of Peak Amounts =				0.5074	
2	5.130	5.130	0.000	58672	0.5000	0.5040	
2	5.450	5.450	0.000	48489	0.5000	0.4990	
2	5.518	5.518	0.000	37018	0.5000	0.5086	
2	5.583	5.583	0.000	129530	0.5000	0.5025	
2	5.955	5.955	0.000	84773	0.5000	0.5009	
		Average of Peak Amounts =				0.5030	
						RPD = 0.86	
$ 15 DCB Decachlorobiphenyl							M
1	6.192	6.192	0.000	40170	0.0125	0.0123	M
2	7.245	7.245	0.000	38140	0.0125	0.0128	
						RPD = 3.55	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

1660sur/is0.5_00005 Amount Added: 1.00 Units: mL

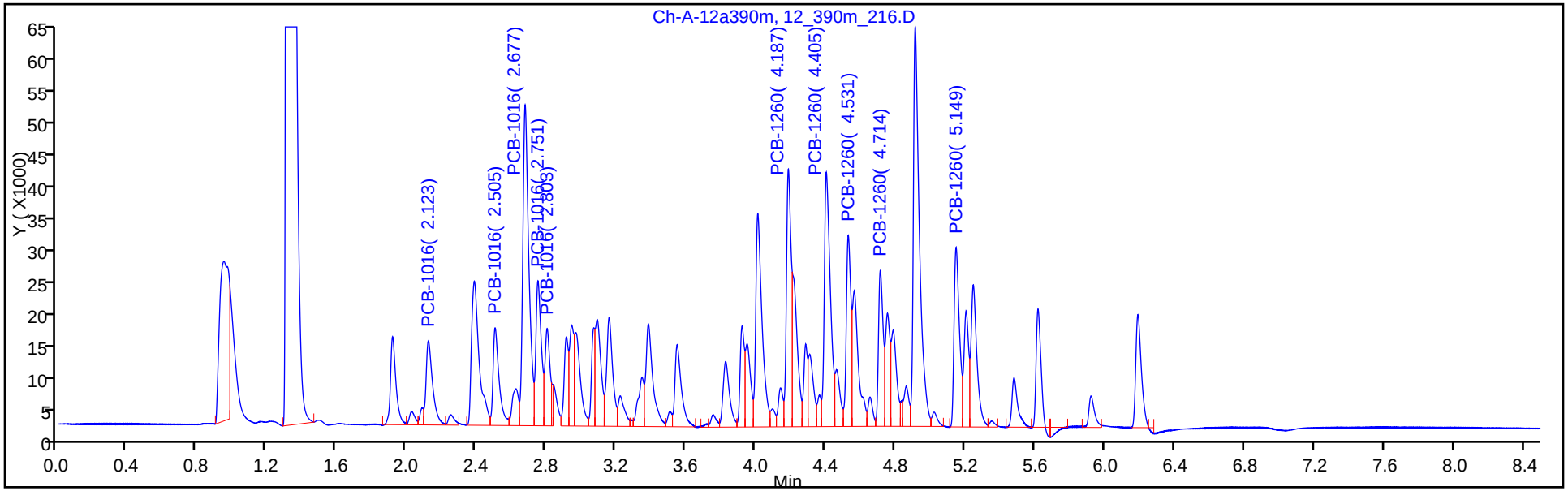
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TestAmerica Buffalo

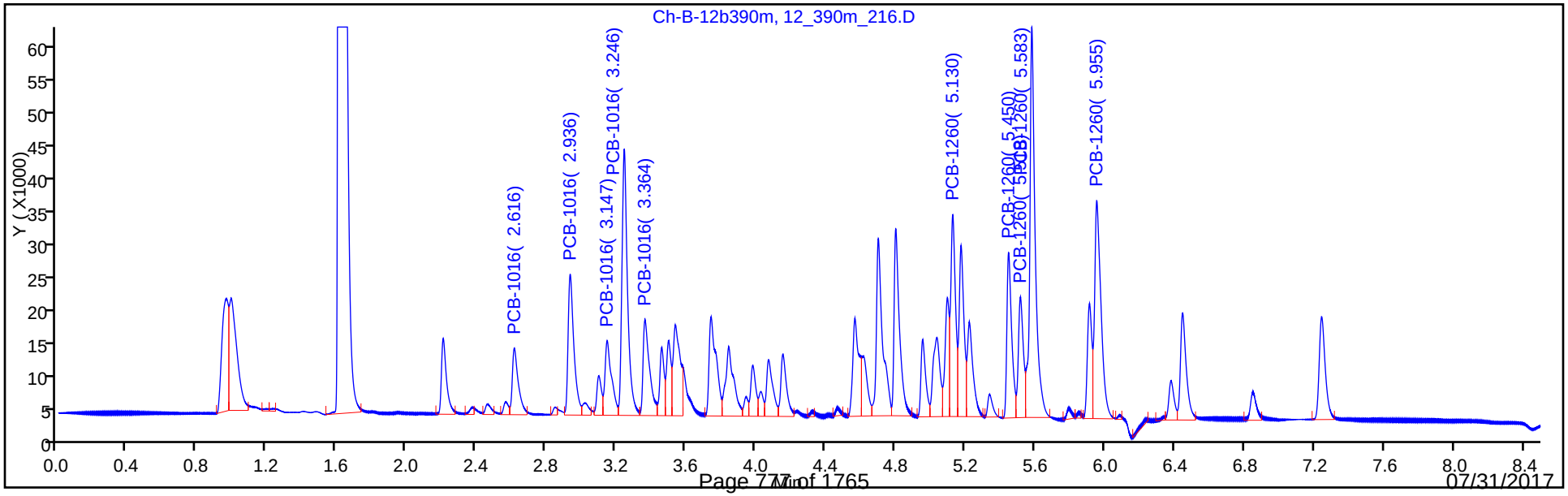
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Injection Date:	11-May-2017 16:17:12	Instrument ID:	HP5890-12	Operator ID:	BufTCHROM
Lims ID:	ICIS 5			Worklist Smp#:	19
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	5890-12 PCB IS	Limit Group:	GC - 8082A PCB IS ICAL		

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



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



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

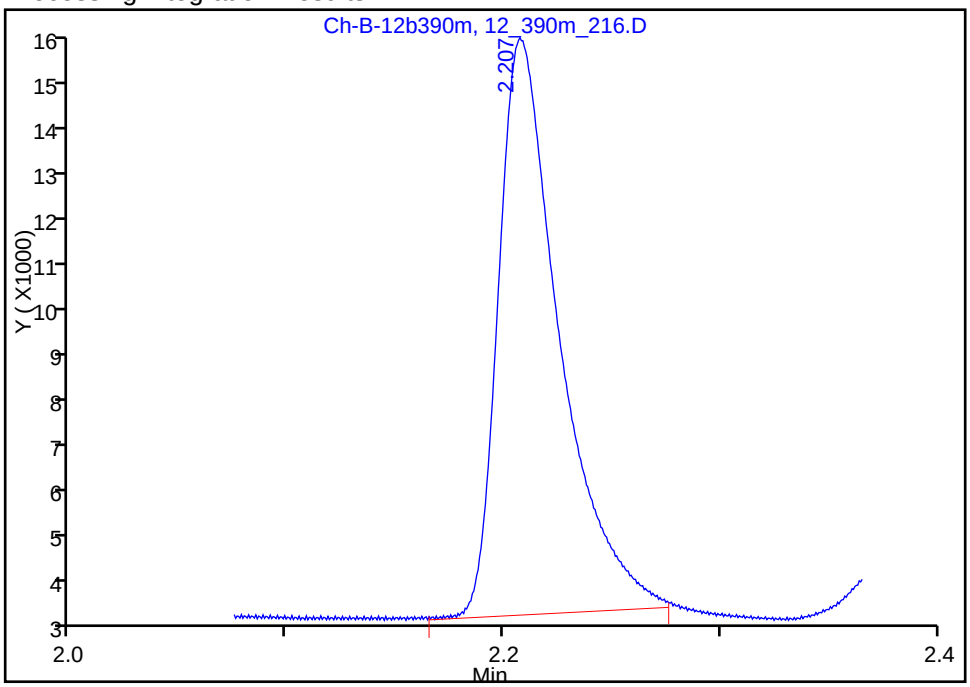
Data File:	\\ChromNA\Buffalo\ChromData\HP5890-12\20170511-62436.b\12_390m_216.D				
Injection Date:	11-May-2017 16:17:12	Instrument ID:	HP5890-12		
Lims ID:	ICIS 5				
Client ID:					
Operator ID:	BufTCHROM	ALS Bottle#:	0	Worklist Smp#:	19
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	5890-12 PCB IS	Limit Group:	GC - 8082A PCB IS ICAL		
Column:		Detector	Ch-B-7b136		

$ 6 Tetrachloro-m-xylene, CAS: 877-09-8

Signal: 2

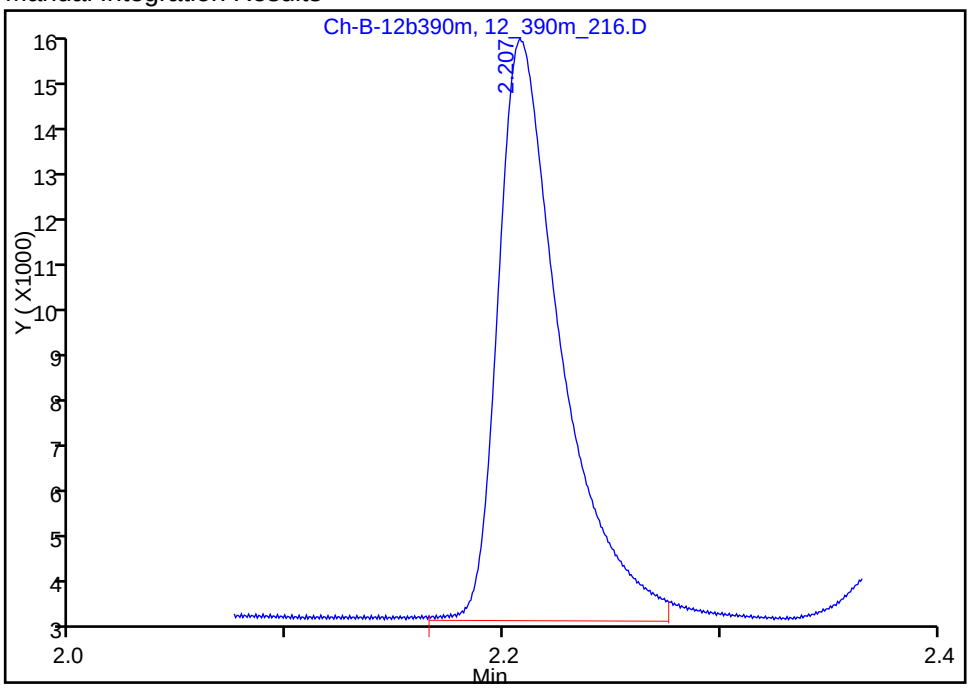
Processing Integration Results

RT: 2.21
Area: 22379
Amount: 0.011549
Amount Units: ng/uL



Manual Integration Results

RT: 2.21
Area: 23415
Amount: 0.011816
Amount Units: ng/uL



Reviewer: owenj, 12-May-2017 15:33:24

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Report Date: 15-May-2017 13:50:55 Chrom Revision: 2.2 18-Apr-2017 07:43:58

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170511-62436.b\12_390m_216.D

Injection Date: 11-May-2017 16:17:12 Instrument ID: HP5890-12

Lims ID: ICIS 5

Client ID:

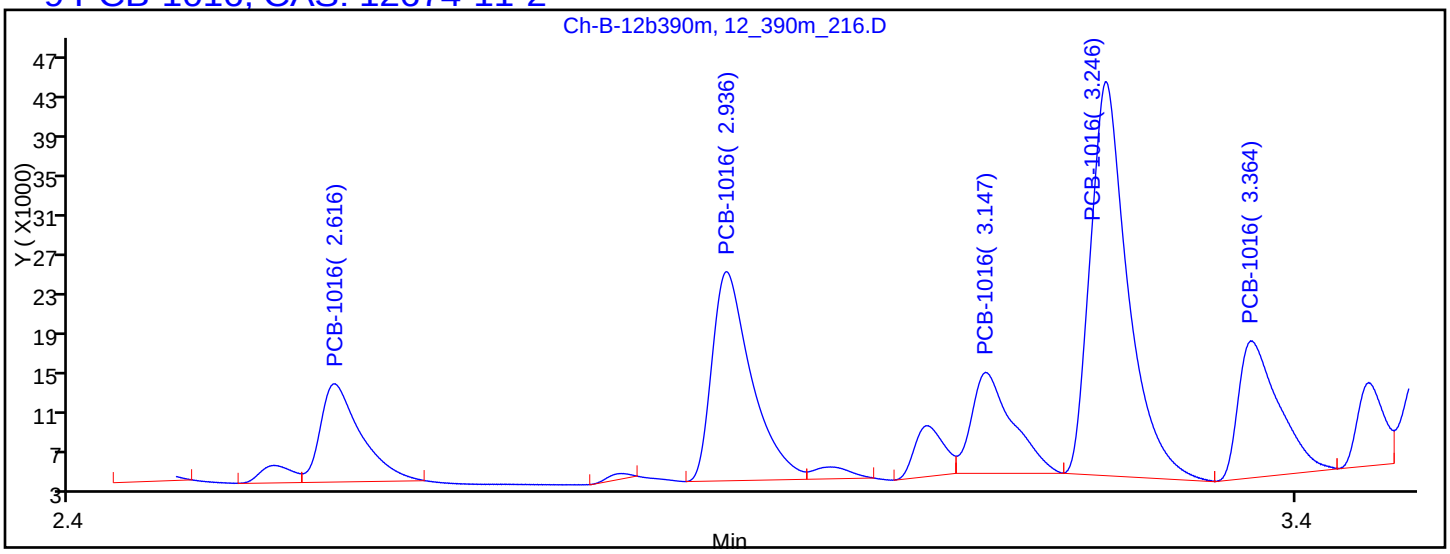
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 19

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 5890-12 PCB IS Limit Group: GC - 8082A PCB IS ICAL

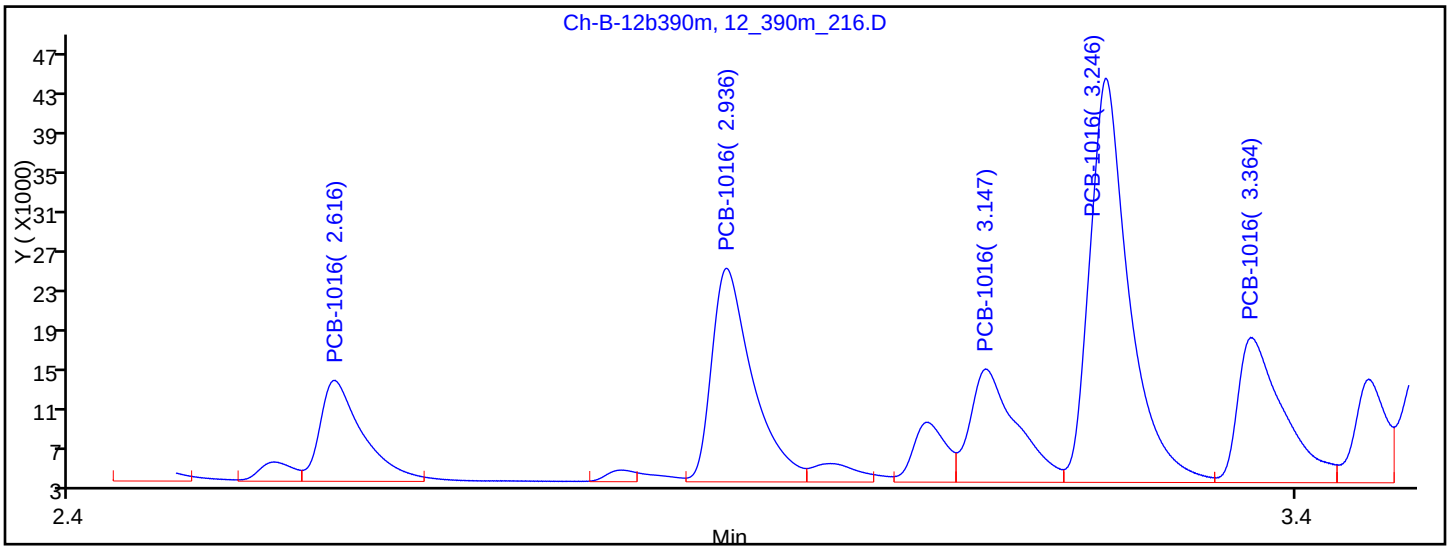
Column: Detector Ch-B-7b136

9 PCB-1016, CAS: 12674-11-2



Processing Integration Results

2.616	Response = 22585
2.936	Response = 46892
3.147	Response = 23618
3.246	Response = 84699
3.364	Response = 31421



Manual Integration Results

2.616	Response = 24469	M
2.936	Response = 49784	M
3.147	Response = 30139	M
3.246	Response = 90874	M
3.364	Response = 37865	M

Reviewer: owenj, 12-May-2017 15:33:24

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170511-62436.b\12_390m_217.D
Lims ID: IC 4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 11-May-2017 16:32:35 ALS Bottle#: 0 Worklist Smp#: 20
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP5890-12
Sublist: chrom-5890-12 PCB IS*sub1

Method: \\ChromNA\Buffalo\ChromData\HP5890-12\20170511-62436.b\5890-12 PCB IS.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 15-May-2017 13:50:57 Calib Date: 12-May-2017 17:50:21
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170511-62436.b\12_390m_240.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK026

First Level Reviewer: owenj Date: 11-May-2017 17:22:30

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.319	1.319	0.000	1267222	0.5000	0.5000	
2	1.616	1.617	-0.001	1132123	0.5000	0.5000	
						RPD = 0.00	
$ 6 Tetrachloro-m-xylene							M
1	1.916	1.917	-0.001	12358	0.005000	0.004977	M
2	2.207	2.207	0.000	8574	0.005000	0.004294	
						RPD = 14.75	
9 PCB-1016							M
1	2.123	2.123	0.000	15036	0.2000	0.2182	M
1	2.505	2.505	0.000	15855	0.2000	0.2160	M
1	2.678	2.677	0.001	52434	0.2000	0.2095	M
1	2.751	2.751	0.000	21437	0.2000	0.2122	M
1	2.803	2.803	0.000	12533	0.2000	0.2039	M
		Average of Peak Amounts =				0.2119	
2	2.615	2.616	-0.001	10411	0.2000	0.2132	M
2	2.936	2.936	0.000	21779	0.2000	0.2226	M
2	3.147	3.147	0.000	12711	0.2000	0.2176	M
2	3.245	3.246	-0.001	37971	0.2000	0.2056	M
2	3.364	3.364	0.000	15981	0.2000	0.2107	M
		Average of Peak Amounts =				0.2139	
						RPD = 0.94	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
12 PCB-1260							M
1	4.187	4.187	0.000	35011	0.2000	0.2288	M
1	4.404	4.405	-0.001	42034	0.2000	0.2089	M
1	4.529	4.531	-0.002	24020	0.2000	0.2167	M
1	4.713	4.714	-0.001	18160	0.2000	0.1992	M
1	5.148	5.149	-0.001	24761	0.2000	0.1912	M
		Average of Peak Amounts =				0.2089	
2	5.129	5.130	-0.001	26704	0.2000	0.2222	M
2	5.449	5.450	-0.001	22758	0.2000	0.2246	M
2	5.516	5.518	-0.002	16127	0.2000	0.2125	M
2	5.583	5.583	0.000	55320	0.2000	0.2078	M
2	5.955	5.955	0.000	35418	0.2000	0.2046	M
		Average of Peak Amounts =				0.2143	
						RPD = 2.55	
$ 15 DCB Decachlorobiphenyl							M
1	6.189	6.192	-0.003	16167	0.005000	0.004860	M
2	7.243	7.245	-0.002	15899	0.005000	0.005158	
						RPD = 5.94	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

1660sur/is0.2_00005 Amount Added: 1.00 Units: mL

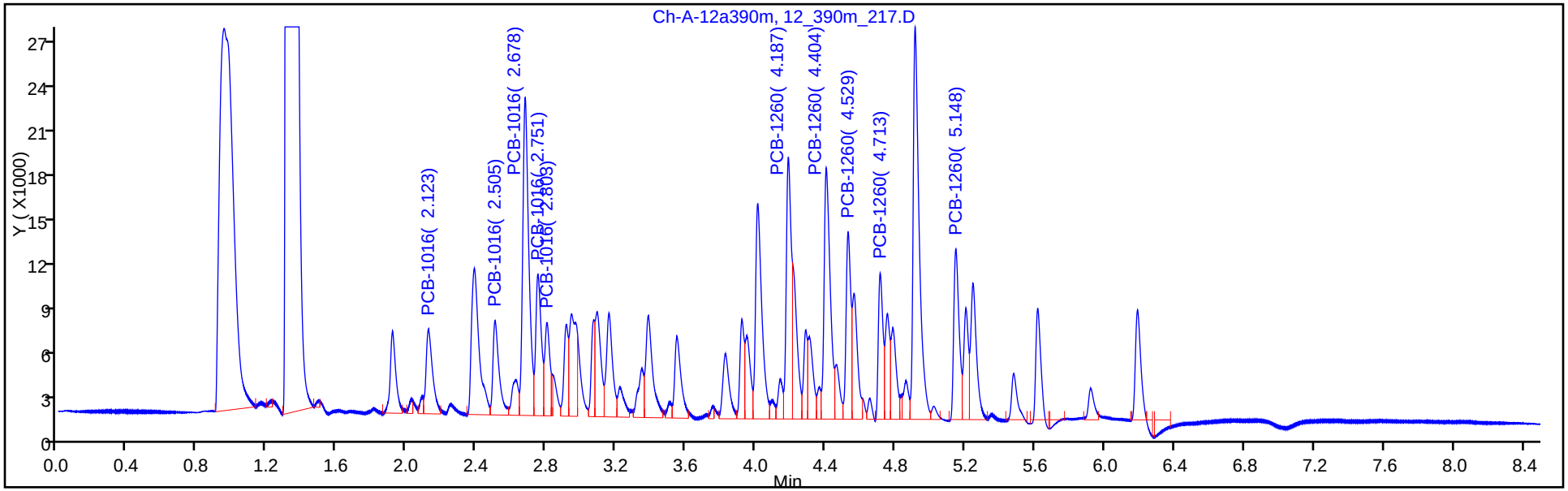
Report Date: 15-May-2017 13:50:58 Chrom Revision: 2.2 18-Apr-2017 07:43:58

TestAmerica Buffalo

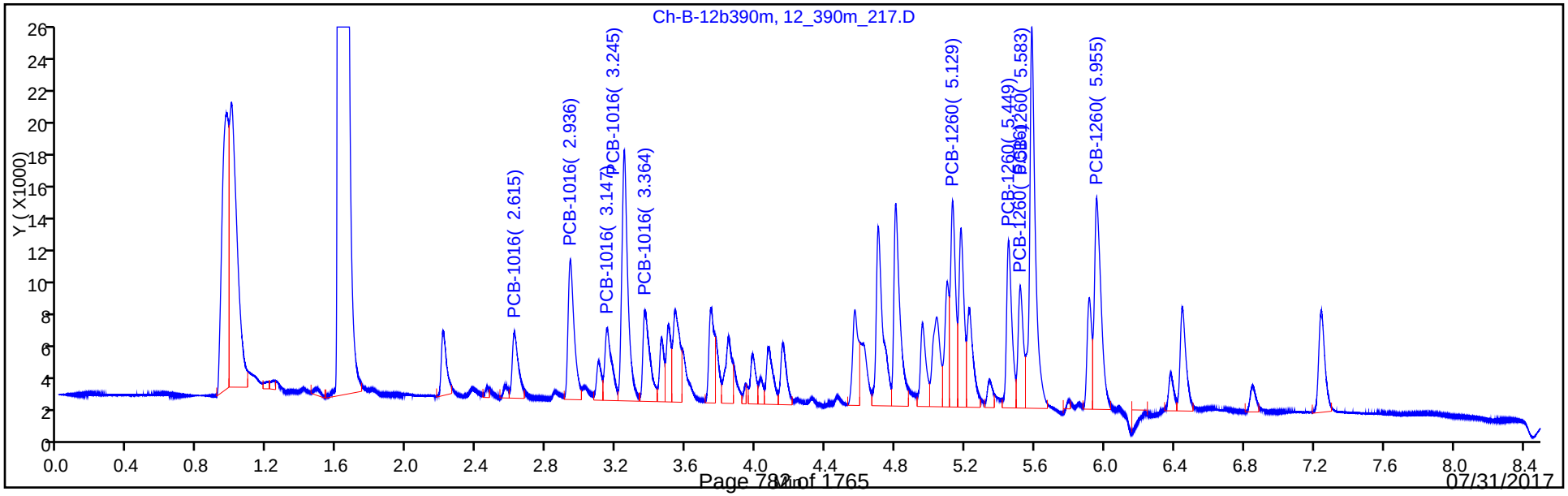
Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170511-62436.b\12_390m_217.D

Injection Date:	11-May-2017 16:32:35	Instrument ID:	HP5890-12	Operator ID:	BufTCHROM
Lims ID:	IC 4			Worklist Smp#:	20
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	5890-12 PCB IS	Limit Group:	GC - 8082A PCB IS ICAL		

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



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



Report Date: 15-May-2017 13:50:58 Chrom Revision: 2.2 18-Apr-2017 07:43:58

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170511-62436.b\12_390m_217.D

Injection Date: 11-May-2017 16:32:35 Instrument ID: HP5890-12

Lims ID: IC 4

Client ID:

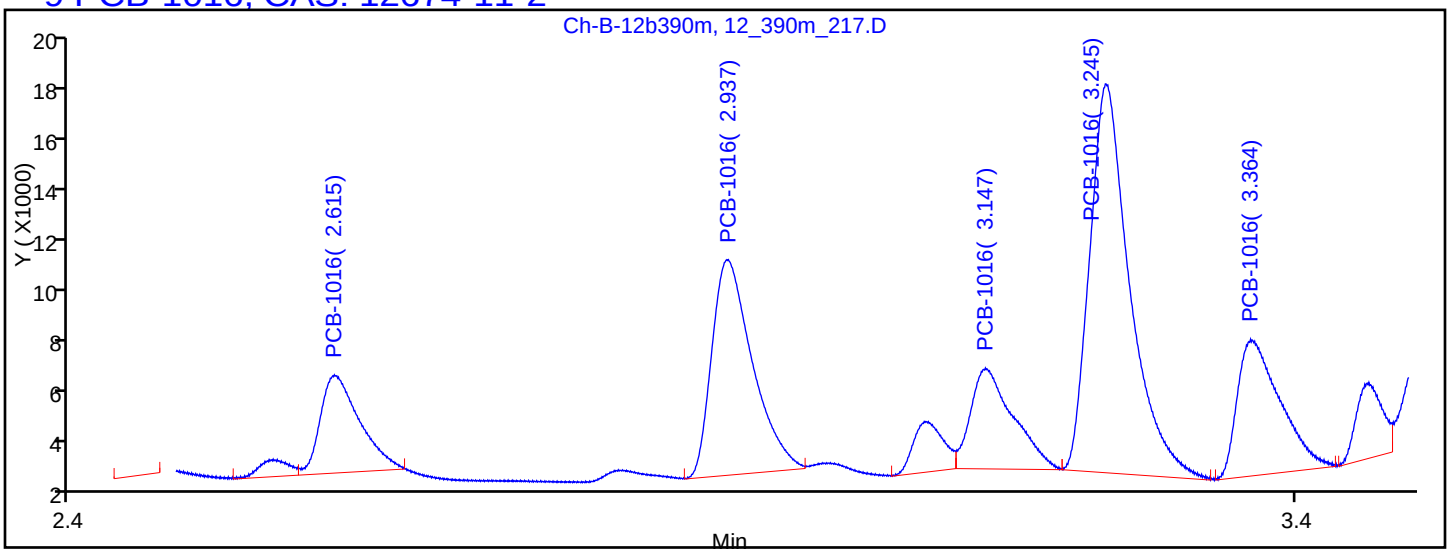
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 20

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 5890-12 PCB IS Limit Group: GC - 8082A PCB IS ICAL

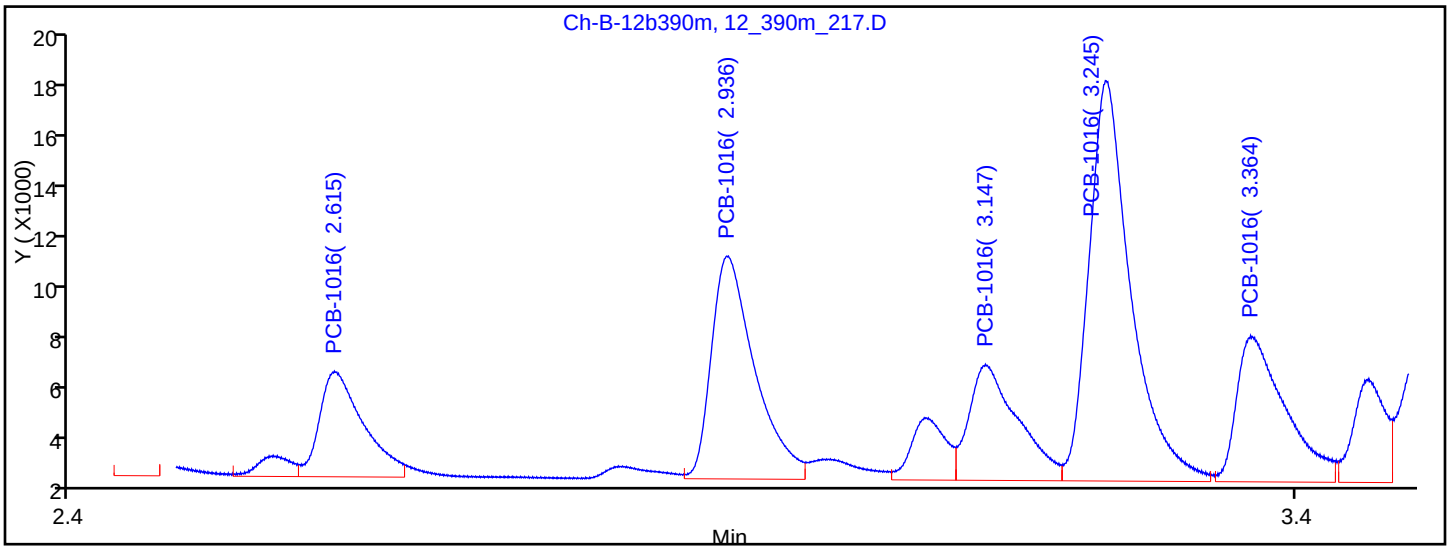
Column: Detector Ch-B-7b136

9 PCB-1016, CAS: 12674-11-2



Processing Integration Results

2.615	Response = 8641
2.937	Response = 19651
3.147	Response = 9588
3.245	Response = 35049
3.364	Response = 13059



Manual Integration Results

2.615	Response = 10411	M
2.936	Response = 21779	M
3.147	Response = 12711	M
3.245	Response = 37971	M
3.364	Response = 15981	M

Reviewer: owenj, 12-May-2017 15:34:37

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

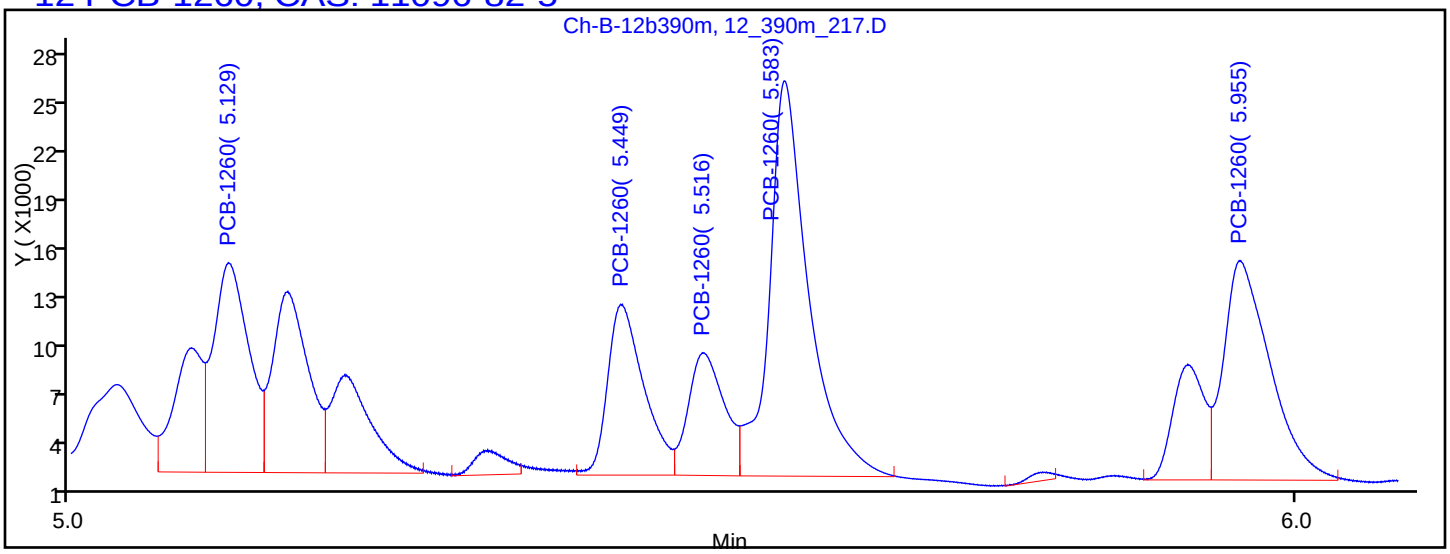
Report Date: 15-May-2017 13:50:58 Chrom Revision: 2.2 18-Apr-2017 07:43:58

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170511-62436.b\12_390m_217.D

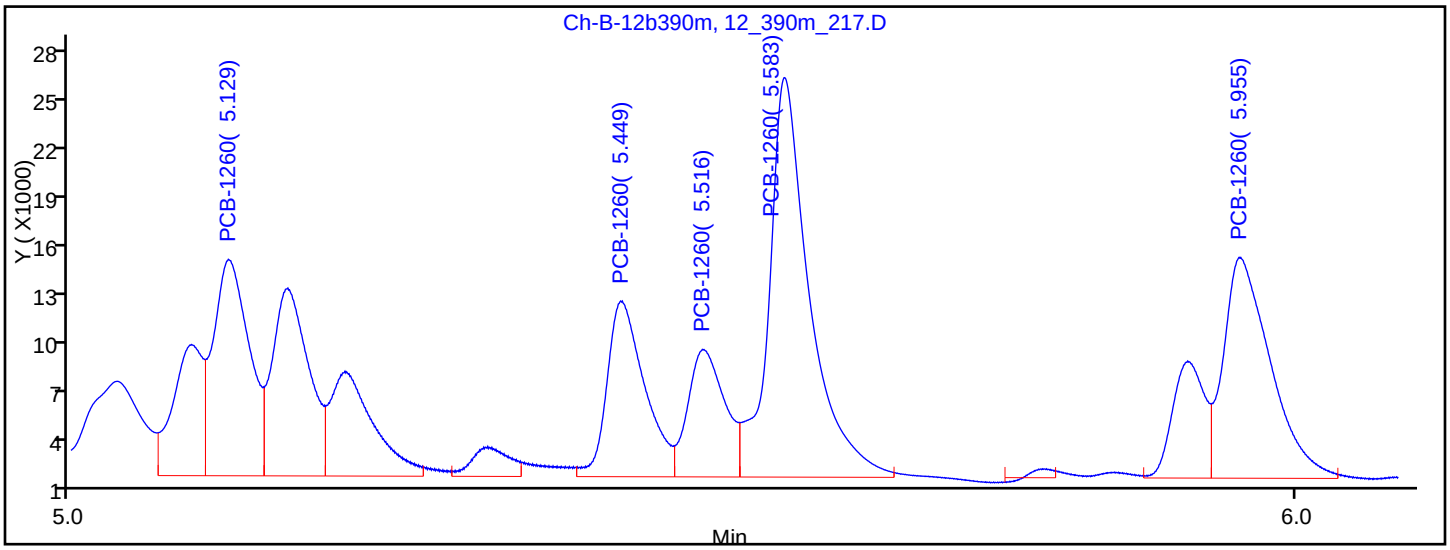
Injection Date:	11-May-2017 16:32:35	Instrument ID:	HP5890-12		
Lims ID:	IC 4				
Client ID:					
Operator ID:	BufTCHROM	ALS Bottle#:	0	Worklist Smp#:	20
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	5890-12 PCB IS	Limit Group:	GC - 8082A PCB IS ICAL		
Column:		Detector	Ch-B-7b136		

12 PCB-1260, CAS: 11096-82-5



Processing Integration Results

5.129	Response = 25545
5.449	Response = 21337
5.516	Response = 15219
5.583	Response = 53408
5.955	Response = 34872



Manual Integration Results

5.129	Response = 26704	M
5.449	Response = 22758	M
5.516	Response = 16127	M
5.583	Response = 55320	M
5.955	Response = 35418	M

Reviewer: owenj, 12-May-2017 15:34:40

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170511-62436.b\12_390m_218.D
Lims ID: IC 3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 11-May-2017 17:07:37 ALS Bottle#: 0 Worklist Smp#: 21
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP5890-12
Sublist: chrom-5890-12 PCB IS*sub1

Method: \\ChromNA\Buffalo\ChromData\HP5890-12\20170511-62436.b\5890-12 PCB IS.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 15-May-2017 13:51:01 Calib Date: 12-May-2017 17:50:21
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170511-62436.b\12_390m_240.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK026

First Level Reviewer: owenj Date: 12-May-2017 15:35:45

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.321	1.319	0.002	1215530	0.5000	0.5000	
2	1.618	1.617	0.001	1069342	0.5000	0.5000	
						RPD = 0.00	
$ 6 Tetrachloro-m-xylene							M
1	1.924	1.917	0.007	5027	0.002500	0.002214	M
2	2.210	2.207	0.003	4181	0.002500	0.002257	M
						RPD = 1.95	
9 PCB-1016							M
1	2.133	2.123	0.010	6478	0.1000	0.0980	
1	2.516	2.505	0.011	7014	0.1000	0.0996	M
1	2.690	2.677	0.013	24849	0.1000	0.1035	M
1	2.763	2.751	0.012	10105	0.1000	0.0975	M
1	2.815	2.803	0.012	5681	0.1000	0.0927	M
		Average of Peak Amounts =				0.0983	
2	2.621	2.616	0.005	4852	0.1000	0.0964	M
2	2.944	2.936	0.008	10245	0.1000	0.1058	M
2	3.154	3.147	0.007	4397	0.1000	0.0810	M
2	3.254	3.246	0.008	17306	0.1000	0.0973	M
2	3.371	3.364	0.007	6439	0.1000	0.0899	M
		Average of Peak Amounts =				0.0941	
						RPD = 4.35	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
12 PCB-1260							M
1	4.202	4.187	0.015	17798	0.1000	0.1103	M
1	4.419	4.405	0.014	21079	0.1000	0.1047	M
1	4.545	4.531	0.014	11503	0.1000	0.1082	M
1	4.729	4.714	0.015	9001	0.1000	0.1045	M
1	5.163	5.149	0.014	12480	0.1000	0.0961	M
		Average of Peak Amounts =				0.1047	
2	5.139	5.130	0.009	12126	0.1000	0.1044	M
2	5.459	5.450	0.009	10136	0.1000	0.1010	M
2	5.527	5.518	0.009	7891	0.1000	0.1061	M
2	5.593	5.583	0.010	28326	0.1000	0.1107	M
2	5.965	5.955	0.010	16798	0.1000	0.1023	M
		Average of Peak Amounts =				0.1049	
						RPD = 0.17	
$ 15 DCB Decachlorobiphenyl							M
1	6.207	6.192	0.015	8233	0.002500	0.002580	M
2	7.258	7.245	0.013	7544	0.002500	0.002544	
						RPD = 1.43	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

1660sur/is0.1_00006 Amount Added: 1.00 Units: mL

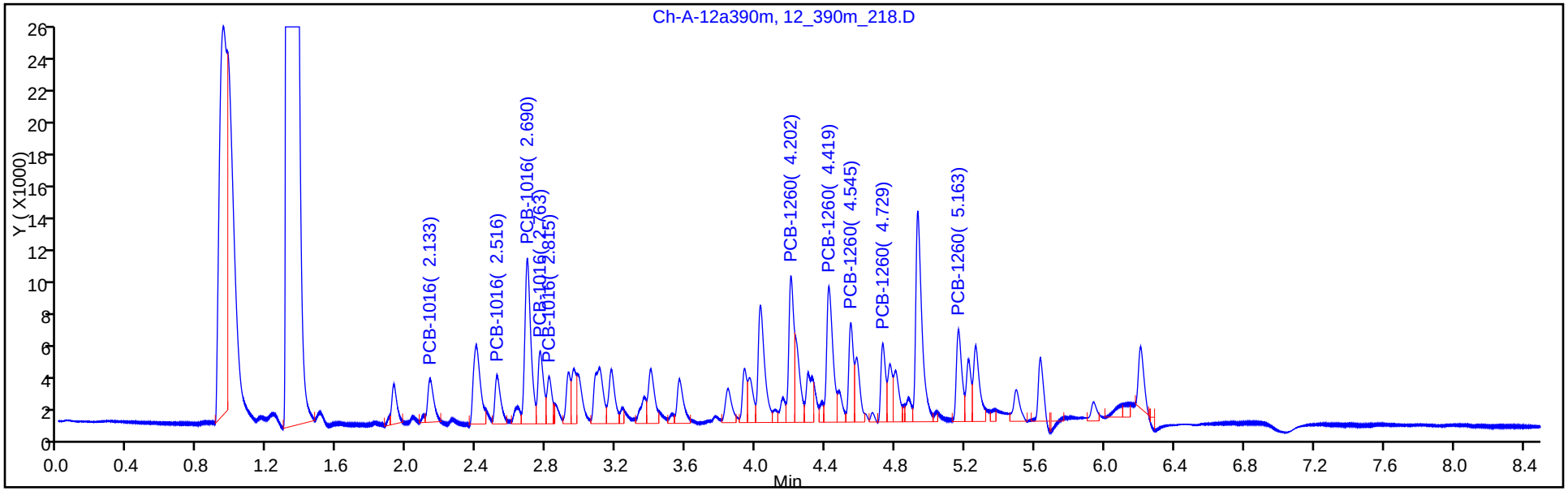
Report Date: 15-May-2017 13:51:02 Chrom Revision: 2.2 18-Apr-2017 07:43:58

TestAmerica Buffalo

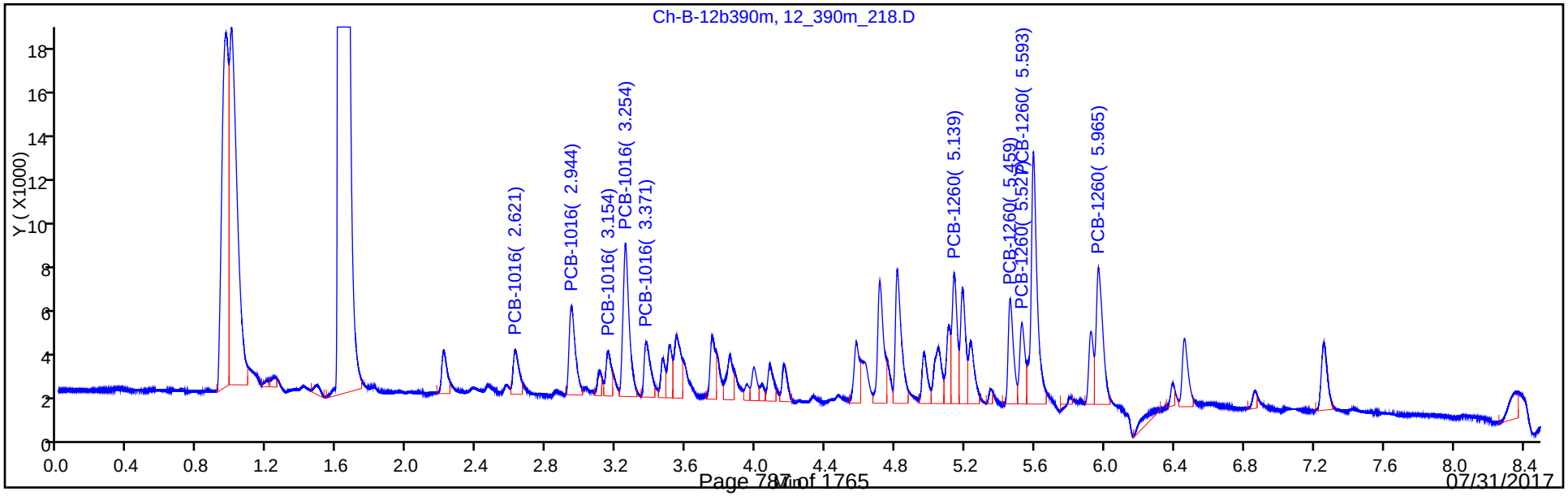
Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170511-62436.b\12_390m_218.D

Injection Date:	11-May-2017 17:07:37	Instrument ID:	HP5890-12	Operator ID:	BufTCHROM
Lims ID:	IC 3			Worklist Smp#:	21
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	5890-12 PCB IS	Limit Group:	GC - 8082A PCB IS ICAL		

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



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



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

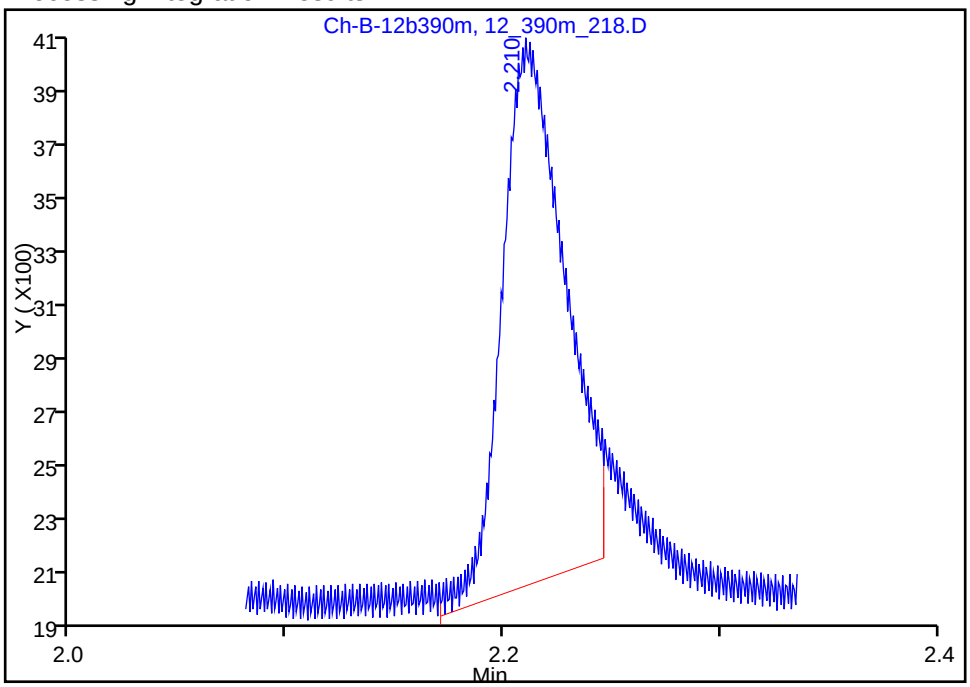
Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170511-62436.b\12_390m_218.D
Injection Date: 11-May-2017 17:07:37 Instrument ID: HP5890-12
Lims ID: IC 3
Client ID:
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 21
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 5890-12 PCB IS Limit Group: GC - 8082A PCB IS ICAL
Column: Detector Ch-B-7b136

$ 6 Tetrachloro-m-xylene, CAS: 877-09-8

Signal: 2

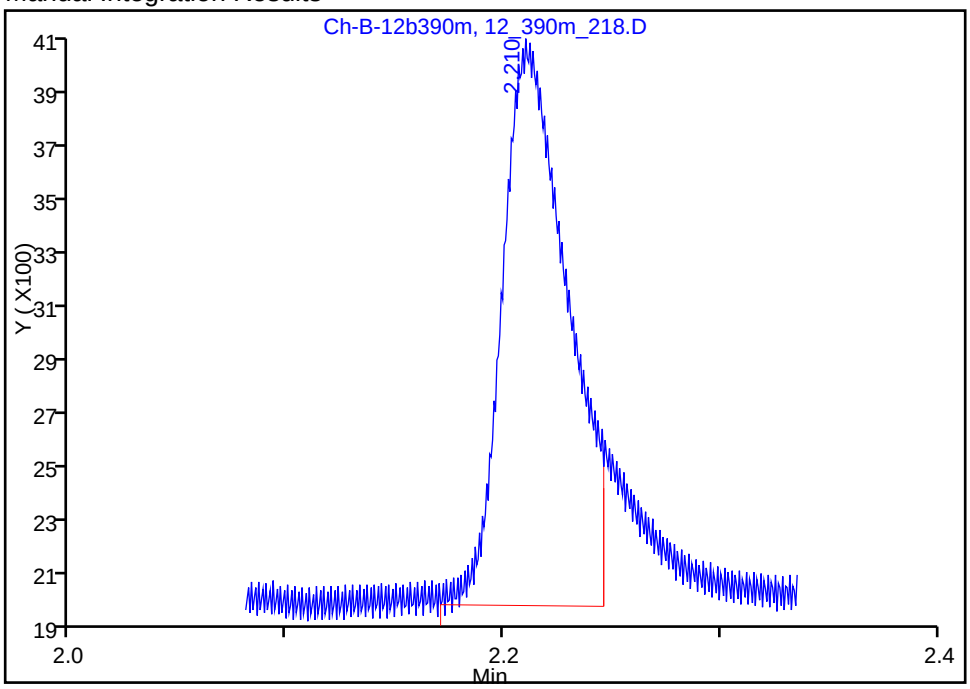
Processing Integration Results

RT: 2.21
Area: 3898
Amount: 0.002462
Amount Units: ng/uL



Manual Integration Results

RT: 2.21
Area: 4181
Amount: 0.002257
Amount Units: ng/uL



Reviewer: owenj, 12-May-2017 15:35:31
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Report Date: 15-May-2017 13:51:02 Chrom Revision: 2.2 18-Apr-2017 07:43:58

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170511-62436.b\12_390m_218.D

Injection Date: 11-May-2017 17:07:37 Instrument ID: HP5890-12

Lims ID: IC 3

Client ID:

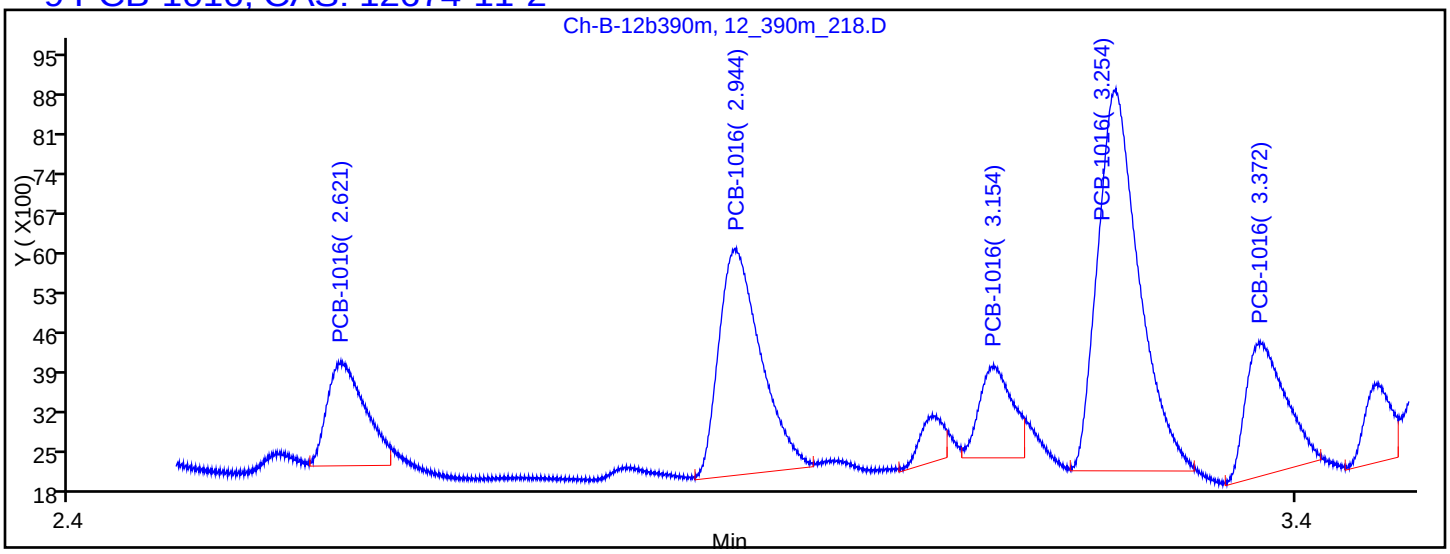
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 21

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 5890-12 PCB IS Limit Group: GC - 8082A PCB IS ICAL

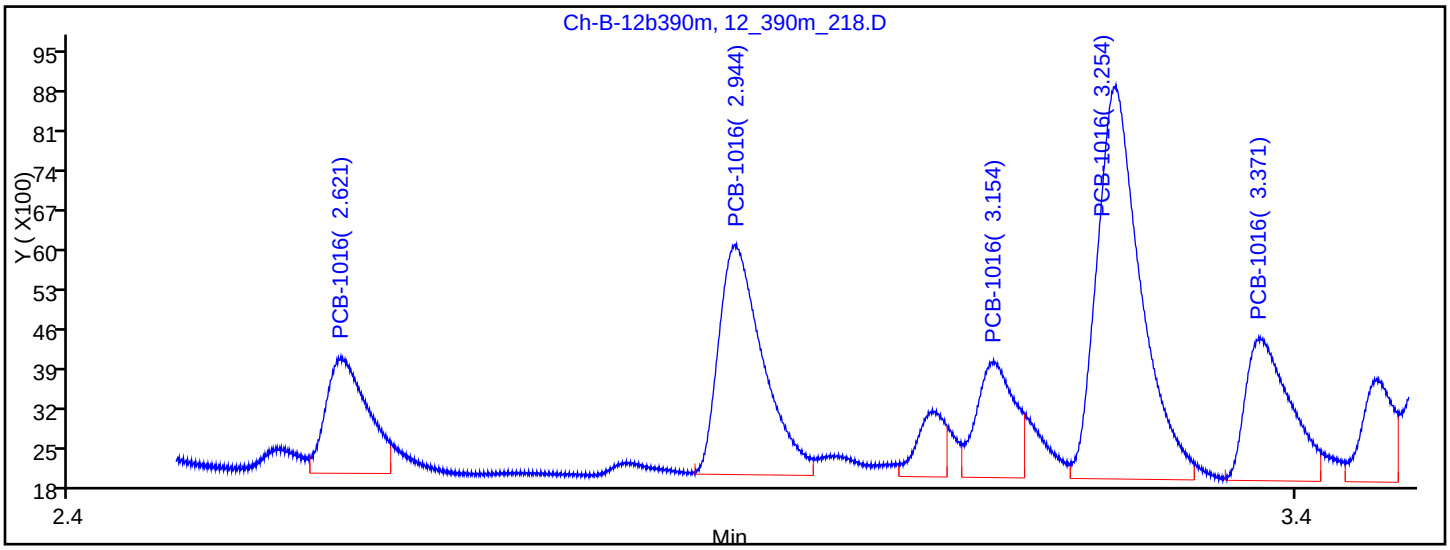
Column: Detector Ch-B-7b136

9 PCB-1016, CAS: 12674-11-2



Processing Integration Results

2.621	Response = 3989
2.944	Response = 9601
3.154	Response = 3065
3.254	Response = 15904
3.372	Response = 5377



Manual Integration Results

2.621	Response = 4852	M
2.944	Response = 10245	M
3.154	Response = 4397	M
3.254	Response = 17306	M
3.371	Response = 6439	M

Reviewer: owenj, 12-May-2017 15:35:25

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

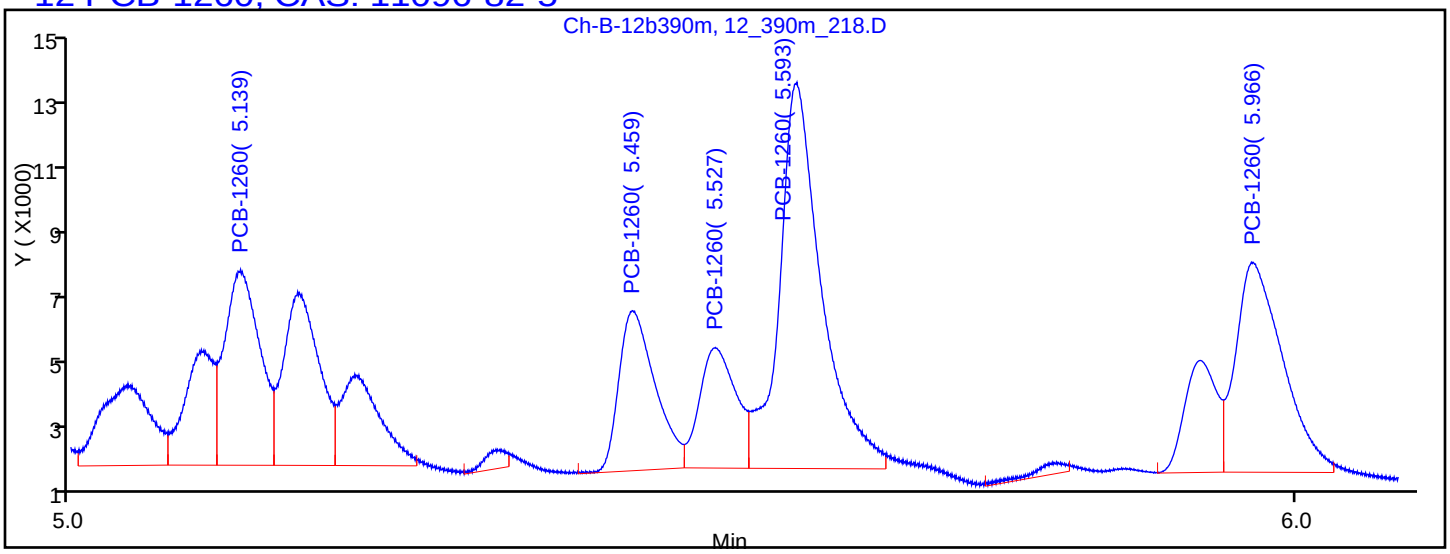
Report Date: 15-May-2017 13:51:02 Chrom Revision: 2.2 18-Apr-2017 07:43:58

TestAmerica Buffalo

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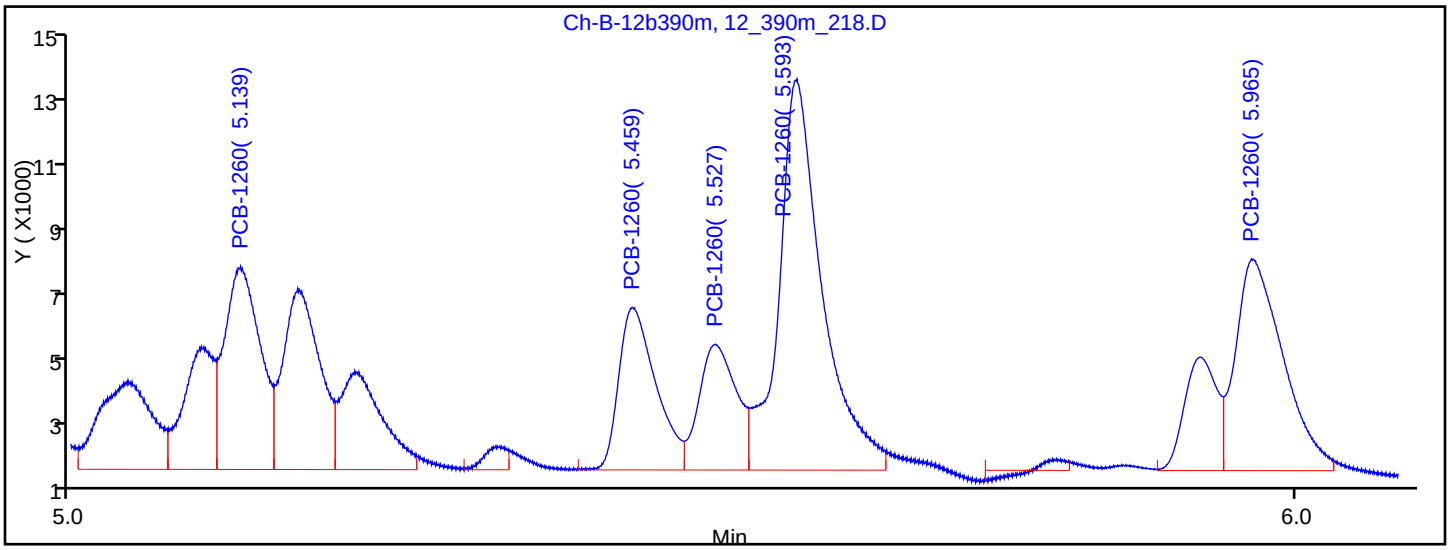
Injection Date:	11-May-2017 17:07:37	Instrument ID:	HP5890-12		
Lims ID:	IC 3				
Client ID:					
Operator ID:	BufTCHROM	ALS Bottle#:	0	Worklist Smp#:	21
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	5890-12 PCB IS	Limit Group:	GC - 8082A PCB IS ICAL		
Column:		Detector	Ch-B-7b136		

12 PCB-1260, CAS: 11096-82-5



Processing Integration Results

5.139	Response = 11506
5.459	Response = 9769
5.527	Response = 7406
5.593	Response = 27375
5.966	Response = 16542



Manual Integration Results

5.139	Response = 12126	M
5.459	Response = 10136	M
5.527	Response = 7891	M
5.593	Response = 28326	M
5.965	Response = 16798	M

Reviewer: owenj, 12-May-2017 15:35:27

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170511-62436.b\12_390m_219.D
Lims ID: IC 2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 11-May-2017 17:22:58 ALS Bottle#: 0 Worklist Smp#: 22
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP5890-12
Sublist: chrom-5890-12 PCB IS*sub1

Method: \\ChromNA\Buffalo\ChromData\HP5890-12\20170511-62436.b\5890-12 PCB IS.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 15-May-2017 13:51:05 Calib Date: 12-May-2017 17:50:21
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170511-62436.b\12_390m_240.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK026

First Level Reviewer: owenj Date: 12-May-2017 15:36:55

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.319	1.319	0.000	1244433	0.5000	0.5000	
2	1.617	1.617	0.000	1106372	0.5000	0.5000	
						RPD = 0.00	
$ 6 Tetrachloro-m-xylene							M
1	1.917	1.917	0.000	2717	0.001250	0.001253	M
2	2.207	2.207	0.000	2787	0.001250	0.001484	M
						RPD = 16.89	
9 PCB-1016							M
1	2.127	2.123	0.004	3817	0.0500	0.0564	
1	2.508	2.505	0.003	3863	0.0500	0.0536	M
1	2.681	2.677	0.004	13140	0.0500	0.0535	M
1	2.755	2.751	0.004	5959	0.0500	0.0505	M
1	2.805	2.803	0.002	3582	0.0500	0.0544	M
		Average of Peak Amounts =				0.0537	
2	2.619	2.616	0.003	2939	0.0500	0.0492	M
2	2.941	2.936	0.005	5317	0.0500	0.0480	M
2	3.151	3.147	0.004	2551	0.0500	0.0463	M
2	3.251	3.246	0.005	9406	0.0500	0.0494	M
2	3.367	3.364	0.003	3531	0.0500	0.0476	M
		Average of Peak Amounts =				0.0481	
						RPD = 10.93	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
12 PCB-1260							M
1	4.193	4.187	0.006	9740	0.0500	0.0481	M
1	4.409	4.405	0.004	10306	0.0500	0.0450	M
1	4.535	4.531	0.004	5394	0.0500	0.0495	M
1	4.720	4.714	0.006	4723	0.0500	0.0551	
1	5.153	5.149	0.004	6147	0.0500	0.0414	
		Average of Peak Amounts =				0.0478	
2	5.135	5.130	0.005	6524	0.0500	0.0520	M
2	5.454	5.450	0.004	5220	0.0500	0.0457	M
2	5.521	5.518	0.003	3975	0.0500	0.0475	M
2	5.587	5.583	0.004	13176	0.0500	0.0474	M
2	5.959	5.955	0.004	8176	0.0500	0.0477	
		Average of Peak Amounts =				0.0481	
						RPD = 0.45	
$ 15 DCB Decachlorobiphenyl							M
1	6.195	6.192	0.003	3975	0.001250	0.001217	M
2	7.249	7.245	0.004	3763	0.001250	0.001177	
						RPD = 3.33	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

1660sur/is.05_00005 Amount Added: 1.00 Units: mL

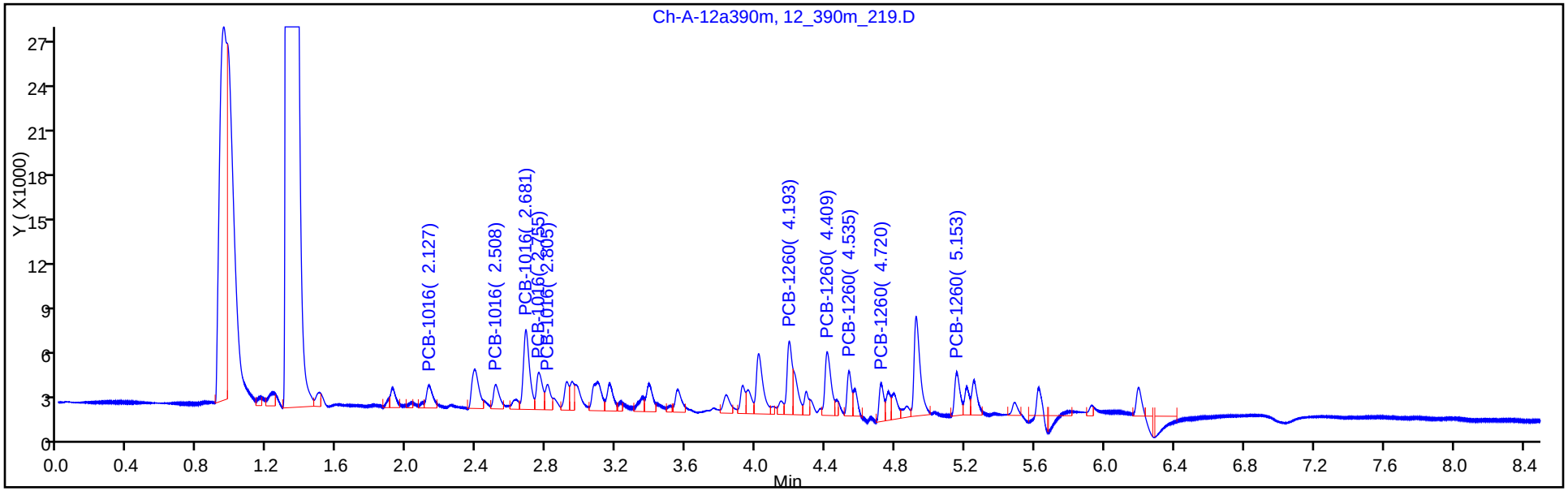
Report Date: 15-May-2017 13:51:06 Chrom Revision: 2.2 18-Apr-2017 07:43:58

TestAmerica Buffalo

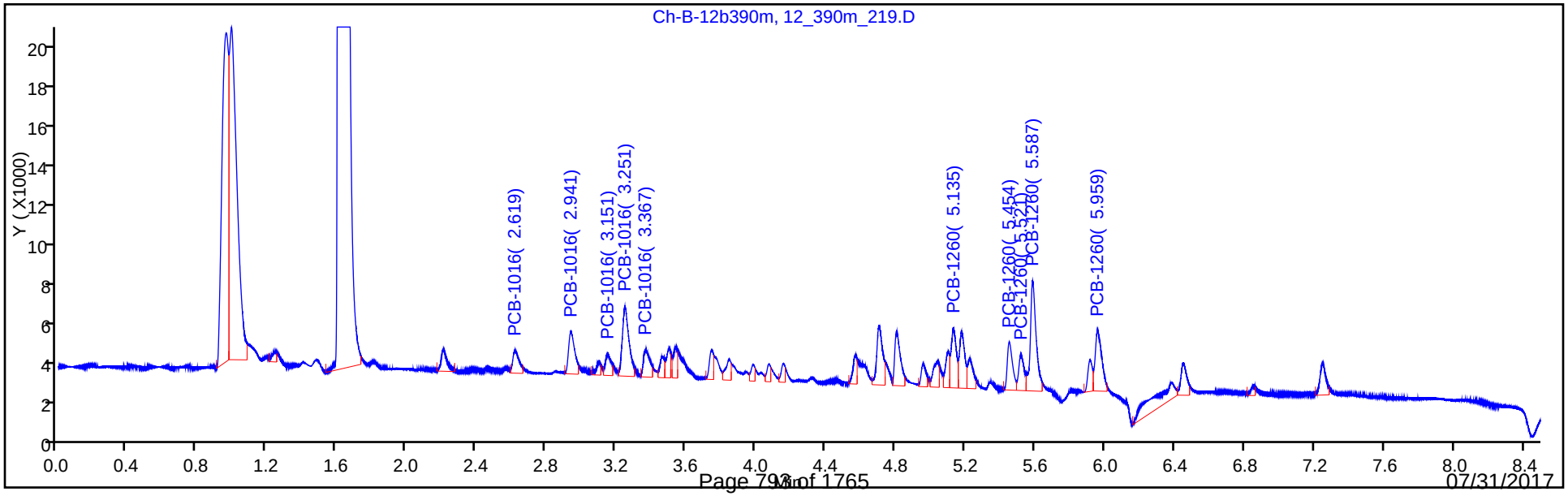
Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170511-62436.b\12_390m_219.D

Injection Date:	11-May-2017 17:22:58	Instrument ID:	HP5890-12	Operator ID:	BufTCHROM
Lims ID:	IC 2			Worklist Smp#:	22
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	5890-12 PCB IS	Limit Group:	GC - 8082A PCB IS ICAL		

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



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



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

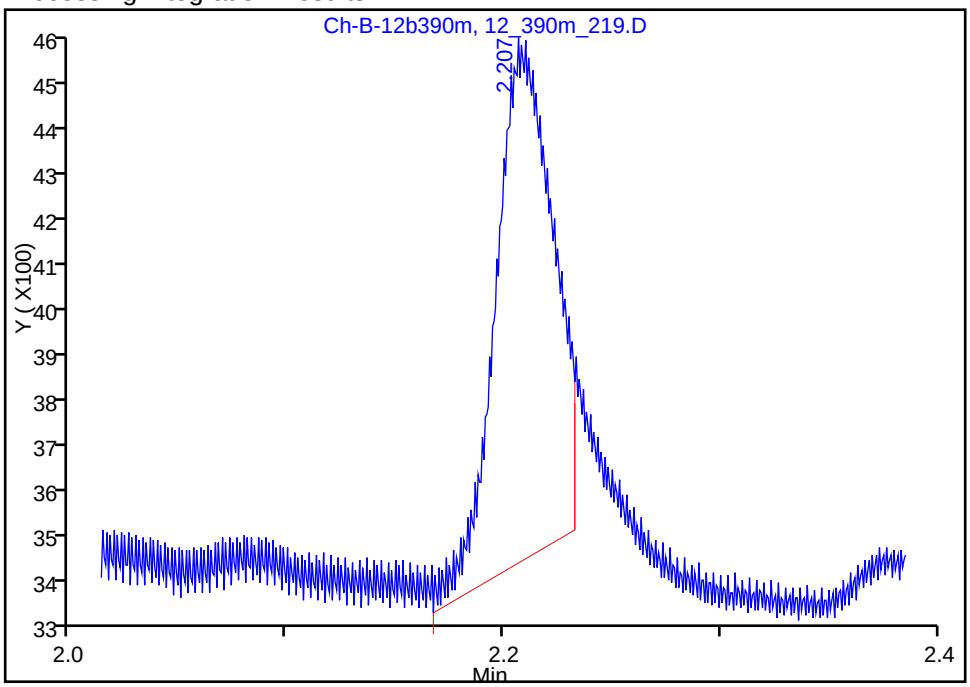
Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170511-62436.b\12_390m_219.D
Injection Date: 11-May-2017 17:22:58 Instrument ID: HP5890-12
Lims ID: IC 2
Client ID:
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 22
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 5890-12 PCB IS Limit Group: GC - 8082A PCB IS ICAL
Column: Detector Ch-B-7b136

$ 6 Tetrachloro-m-xylene, CAS: 877-09-8

Signal: 2

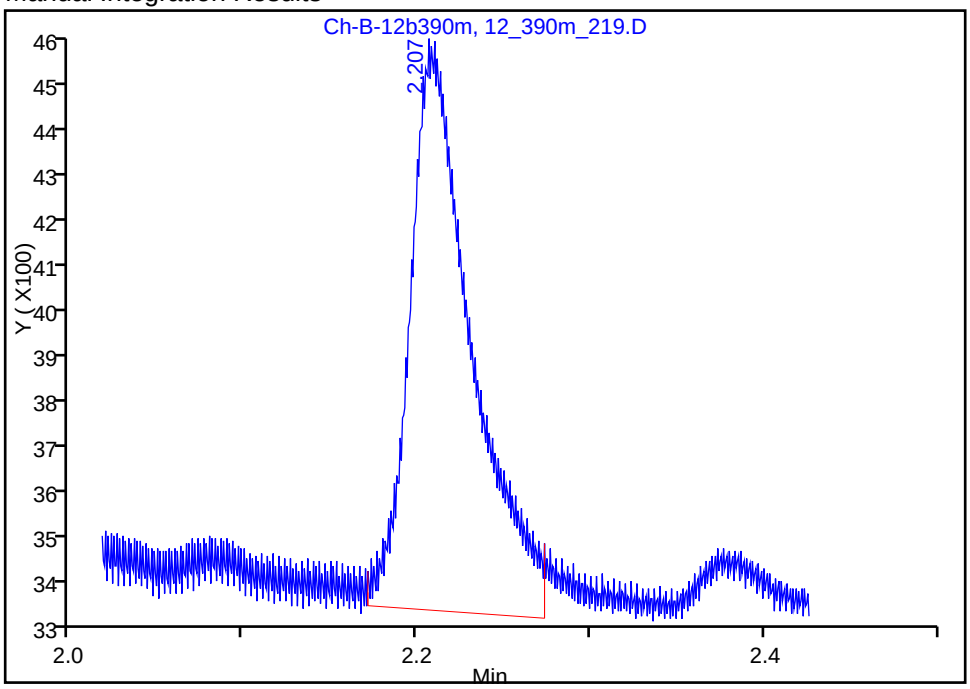
Processing Integration Results

RT: 2.21
Area: 1902
Amount: 0.001370
Amount Units: ng/uL



Manual Integration Results

RT: 2.21
Area: 2787
Amount: 0.001484
Amount Units: ng/uL



Reviewer: owenj, 12-May-2017 15:36:46
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Report Date: 15-May-2017 13:51:06 Chrom Revision: 2.2 18-Apr-2017 07:43:58

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170511-62436.b\12_390m_219.D

Injection Date: 11-May-2017 17:22:58 Instrument ID: HP5890-12

Lims ID: IC 2

Client ID:

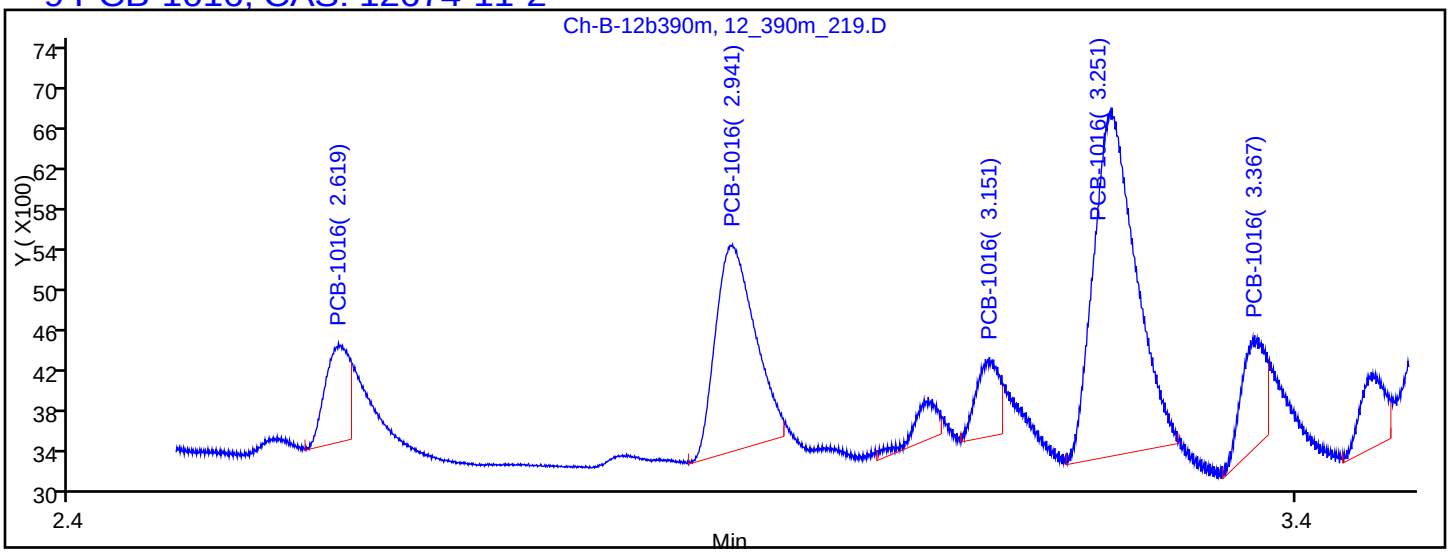
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 22

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 5890-12 PCB IS Limit Group: GC - 8082A PCB IS ICAL

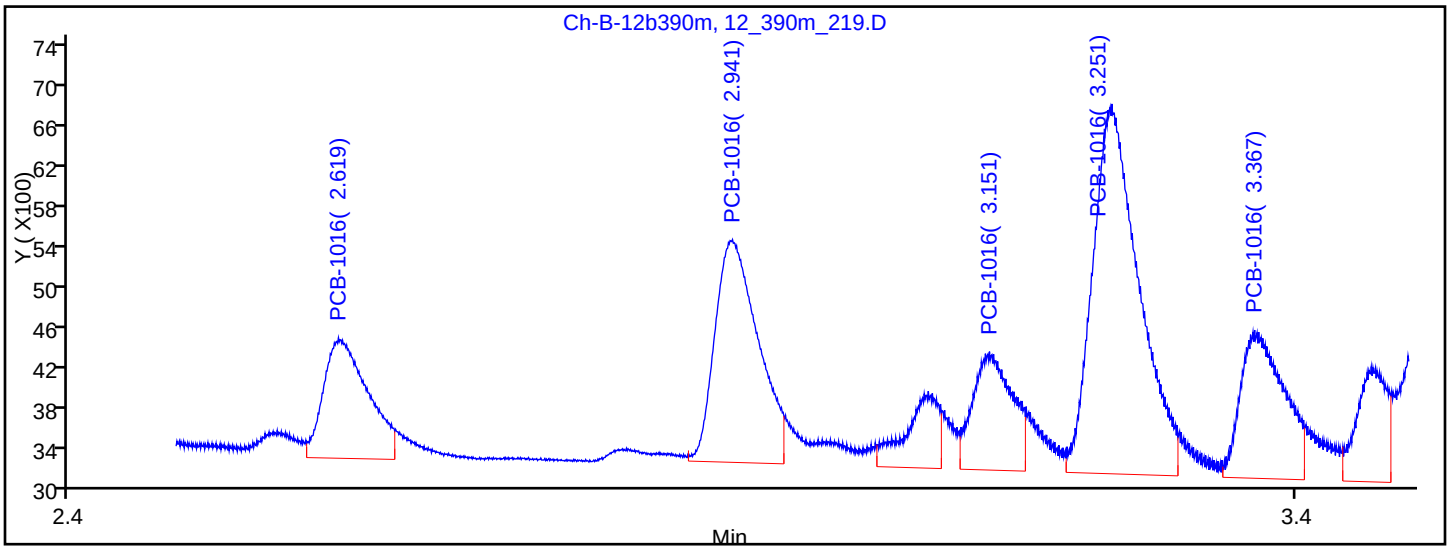
Column: Detector Ch-B-7b136

9 PCB-1016, CAS: 12674-11-2



Processing Integration Results

2.619	Response = 1274
2.941	Response = 4484
3.151	Response = 970
3.251	Response = 8011
3.367	Response = 1461



Manual Integration Results

2.619	Response = 2939	M
2.941	Response = 5317	M
3.151	Response = 2551	M
3.251	Response = 9406	M
3.367	Response = 3531	M

Reviewer: owenj, 12-May-2017 15:36:23

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

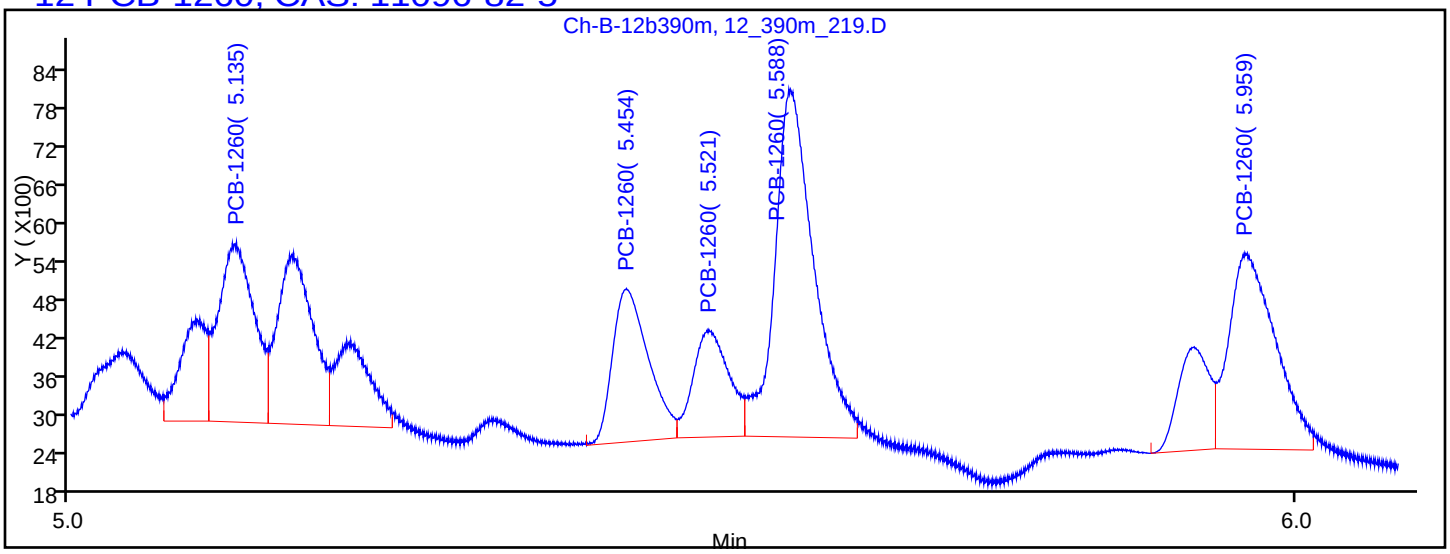
Report Date: 15-May-2017 13:51:06 Chrom Revision: 2.2 18-Apr-2017 07:43:58

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170511-62436.b\12_390m_219.D

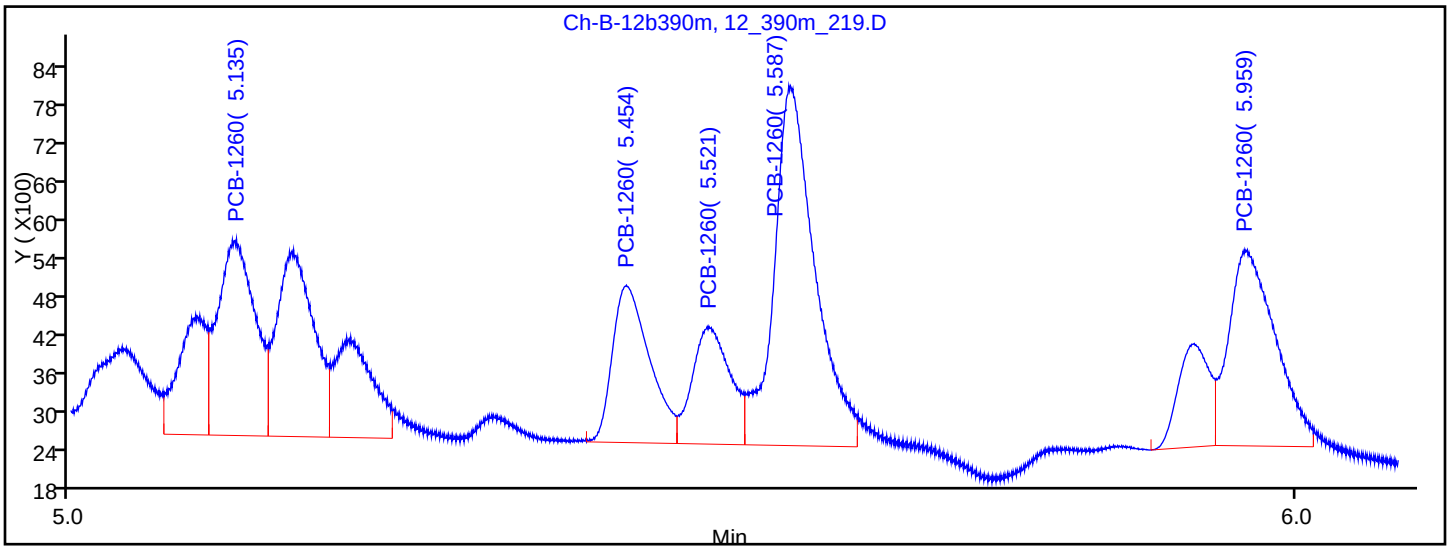
Injection Date:	11-May-2017 17:22:58	Instrument ID:	HP5890-12		
Lims ID:	IC 2				
Client ID:					
Operator ID:	BufTCHROM	ALS Bottle#:	0	Worklist Smp#:	22
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	5890-12 PCB IS	Limit Group:	GC - 8082A PCB IS ICAL		
Column:		Detector	Ch-B-7b136		

12 PCB-1260, CAS: 11096-82-5



Processing Integration Results

5.135	Response = 5760
5.454	Response = 4916
5.521	Response = 3433
5.588	Response = 12143
5.959	Response = 8176



Manual Integration Results

5.135	Response = 6524	M
5.454	Response = 5220	M
5.521	Response = 3975	M
5.587	Response = 13176	M
5.959	Response = 8176	

Reviewer: owenj, 12-May-2017 15:36:27

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170511-62436.b\12_390m_220.D
Lims ID: IC 1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 11-May-2017 18:19:55 ALS Bottle#: 0 Worklist Smp#: 23
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP5890-12
Sublist: chrom-5890-12 PCB IS*sub1

Method: \\ChromNA\Buffalo\ChromData\HP5890-12\20170511-62436.b\5890-12 PCB IS.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 15-May-2017 13:51:08 Calib Date: 12-May-2017 17:50:21
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170511-62436.b\12_390m_240.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK026

First Level Reviewer: owenj Date: 11-May-2017 19:09:57

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.321	1.321	0.000	1258044	0.5000	0.5000	
2	1.618	1.618	0.000	1118954	0.5000	0.5000	
						RPD = 0.00	
$ 6 Tetrachloro-m-xylene							M
1	1.924	1.924	0.000	962	0.000500	0.000555	M
2	2.210	2.210	0.000	926	0.000500	0.000544	M
						RPD = 2.01	
9 PCB-1016							M
1	2.133	2.133	0.000	1232	0.0200	0.0180	M
1	2.515	2.515	0.000	1234	0.0200	0.0169	M
1	2.691	2.691	0.000	4764	0.0200	0.0192	M
1	2.767	2.767	0.000	2976	0.0200	0.0183	M
1	2.817	2.817	0.000	1510	0.0200	0.0186	M
		Average of Peak Amounts =				0.0182	
2	2.621	2.621	0.000	1614	0.0200	0.0188	M
2	2.943	2.943	0.000	2462	0.0200	0.0165	M
2	3.155	3.155	0.000	1211	0.0200	0.0228	M
2	3.254	3.254	0.000	4242	0.0200	0.0200	M
2	3.371	3.371	0.000	1657	0.0200	0.0221	M
		Average of Peak Amounts =				0.0200	
						RPD = 9.65	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
12 PCB-1260							M
1	4.204	4.204	0.000	5364	0.0200	0.0156	M
1	4.420	4.420	0.000	5599	0.0200	0.0198	M
1	4.547	4.547	0.000	1941	0.0200	0.0176	M
1	4.730	4.730	0.000	1257	0.0200	0.0169	M
1	5.163	5.163	0.000	4207	0.0200	0.0251	M
		Average of Peak Amounts =				0.0190	
2	5.139	5.139	0.000	2420	0.0200	0.0161	M
2	5.459	5.459	0.000	2743	0.0200	0.0193	M
2	5.528	5.528	0.000	1920	0.0200	0.0184	M
2	5.595	5.595	0.000	5759	0.0200	0.0181	M
2	5.967	5.967	0.000	3556	0.0200	0.0200	M
		Average of Peak Amounts =				0.0184	
						RPD = 3.25	
$ 15 DCB Decachlorobiphenyl							M
1	6.208	6.208	0.000	1677	0.000500	0.000508	M
2	7.261	7.261	0.000	1769	0.000500	0.000496	M
						RPD = 2.33	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

1660sur/is.02_00005 Amount Added: 1.00 Units: mL

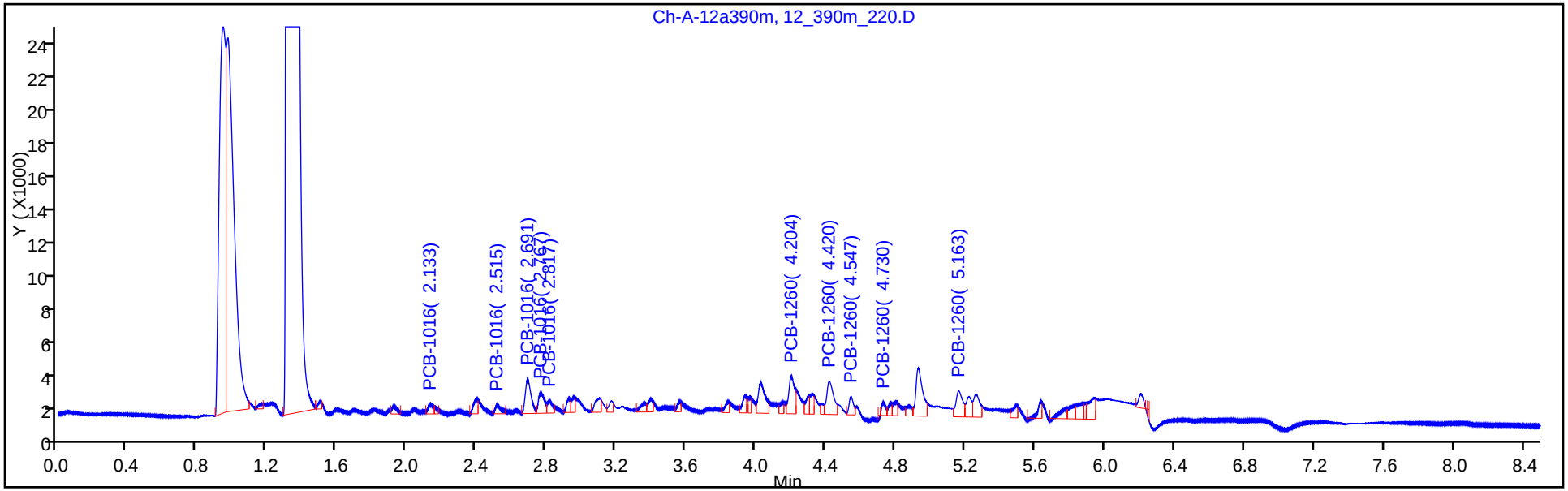
Report Date: 15-May-2017 13:51:09 Chrom Revision: 2.2 18-Apr-2017 07:43:58

TestAmerica Buffalo

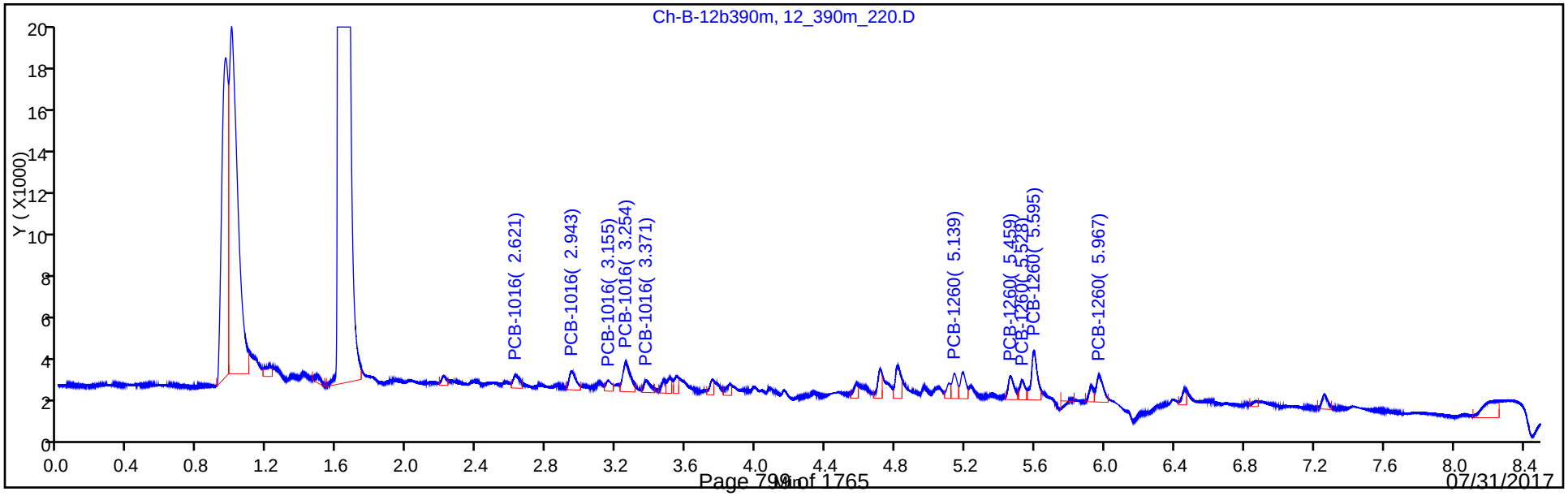
Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170511-62436.b\12_390m_220.D

Injection Date:	11-May-2017 18:19:55	Instrument ID:	HP5890-12	Operator ID:	BufTCHROM
Lims ID:	IC 1			Worklist Smp#:	23
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	5890-12 PCB IS	Limit Group:	GC - 8082A PCB IS ICAL		

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



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



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

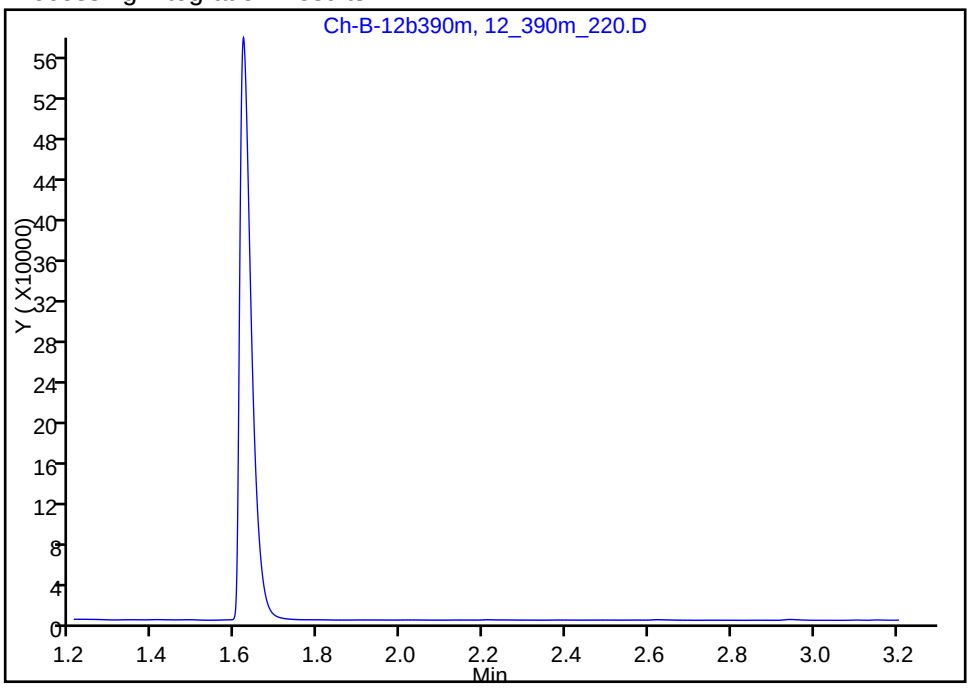
Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170511-62436.b\12_390m_220.D
Injection Date: 11-May-2017 18:19:55 Instrument ID: HP5890-12
Lims ID: IC 1
Client ID:
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 23
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 5890-12 PCB IS Limit Group: GC - 8082A PCB IS ICAL
Column: Detector Ch-B-7b136

$ 6 Tetrachloro-m-xylene, CAS: 877-09-8

Signal: 2

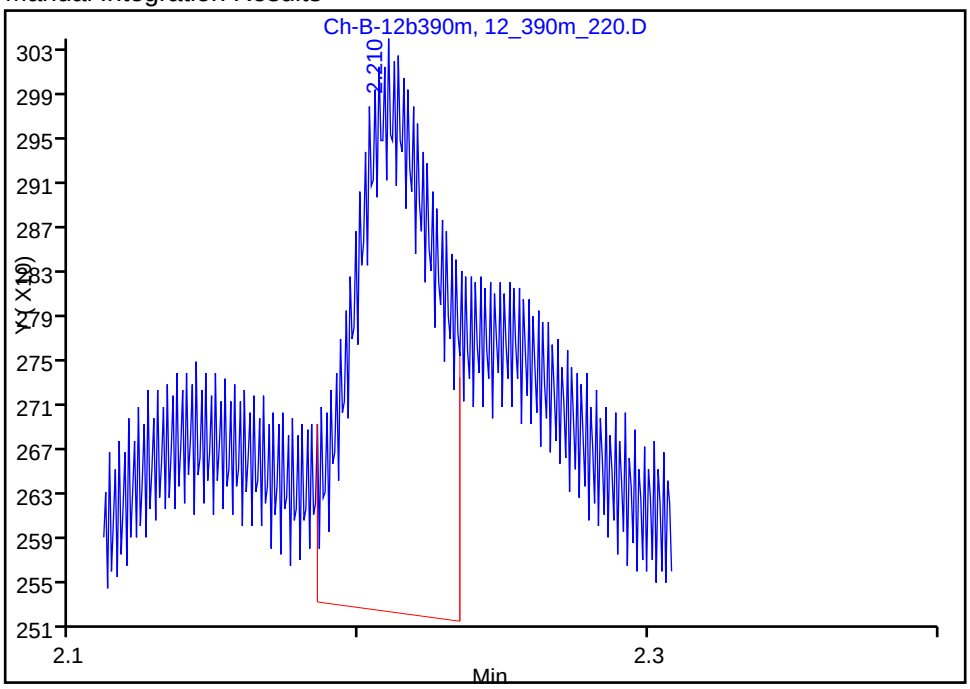
Processing Integration Results

RT: 2.21
Area: 0
Amount: 0.000460
Amount Units: ng/uL



Manual Integration Results

RT: 2.21
Area: 926
Amount: 0.000544
Amount Units: ng/uL



Reviewer: owenj, 12-May-2017 15:51:55
Audit Action: Assigned New Baseline Audit Reason: Split Peak

Report Date: 15-May-2017 13:51:09 Chrom Revision: 2.2 18-Apr-2017 07:43:58

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170511-62436.b\12_390m_220.D

Injection Date: 11-May-2017 18:19:55 Instrument ID: HP5890-12

Lims ID: IC 1

Client ID:

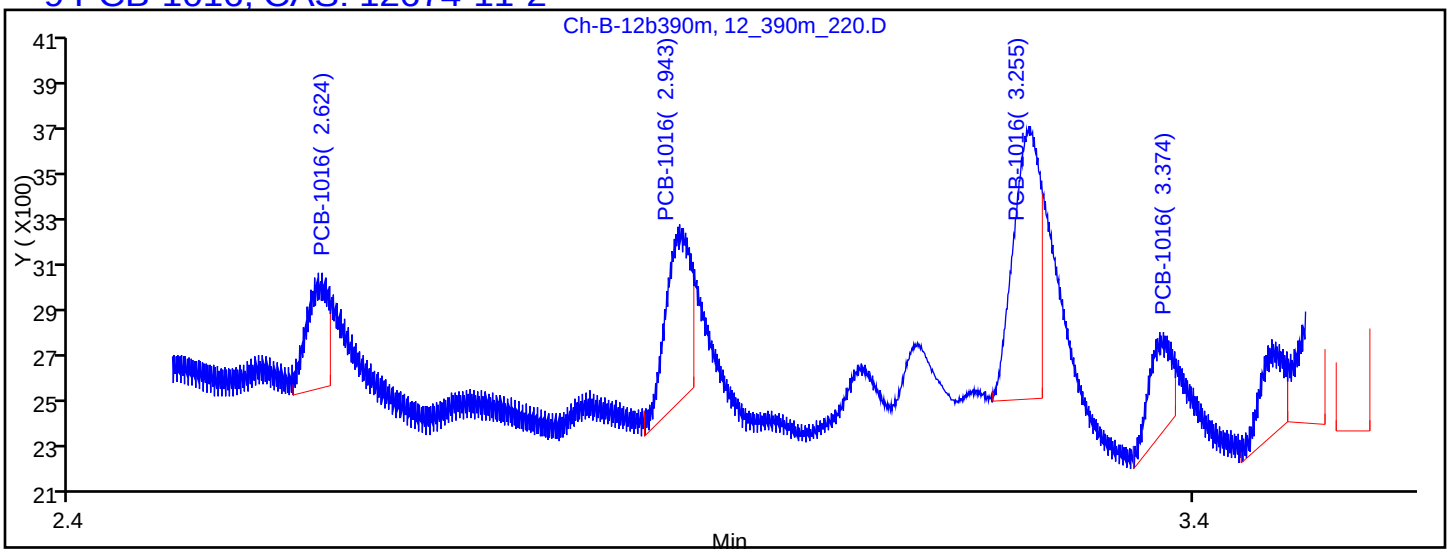
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 23

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 5890-12 PCB IS Limit Group: GC - 8082A PCB IS ICAL

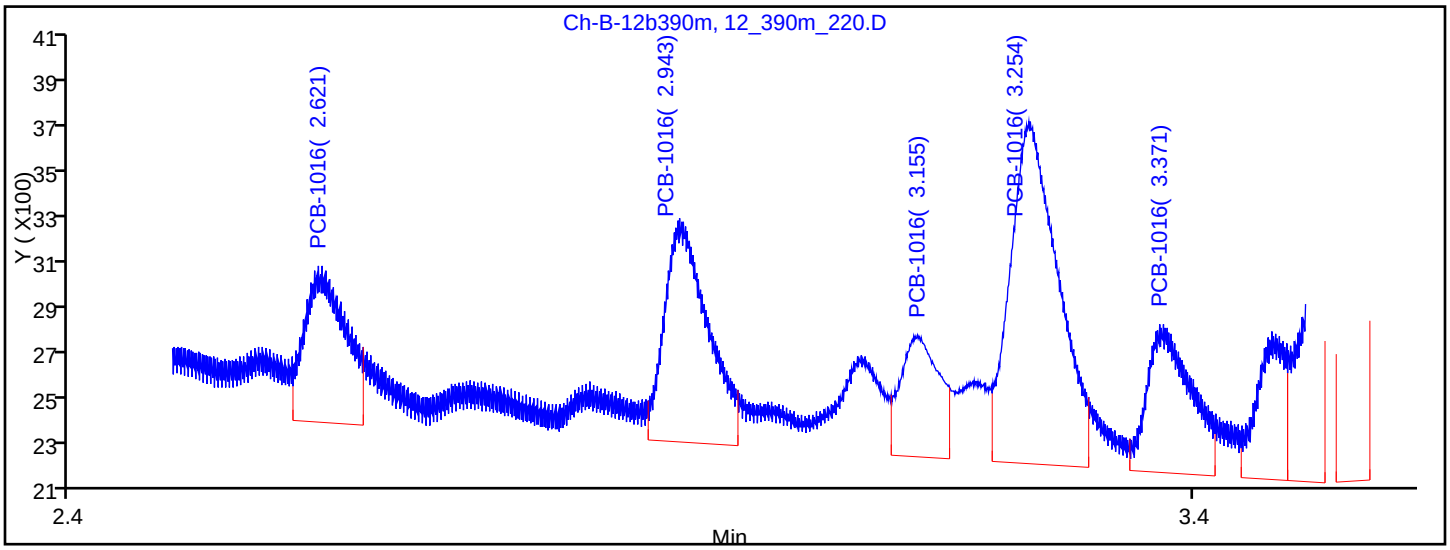
Column: Detector Ch-B-7b136

9 PCB-1016, CAS: 12674-11-2



Processing Integration Results

2.624	Response = 588
2.943	Response = 1090
3.155	Response = 0
3.255	Response = 1794
3.374	Response = 564



Manual Integration Results

2.621	Response = 1614	M
2.943	Response = 2462	M
3.155	Response = 1211	M
3.254	Response = 4242	M
3.371	Response = 1657	M

Reviewer: owenj, 12-May-2017 15:39:32

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Report Date: 15-May-2017 13:51:10 Chrom Revision: 2.2 18-Apr-2017 07:43:58

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170511-62436.b\12_390m_220.D

Injection Date: 11-May-2017 18:19:55 Instrument ID: HP5890-12

Lims ID: IC 1

Client ID:

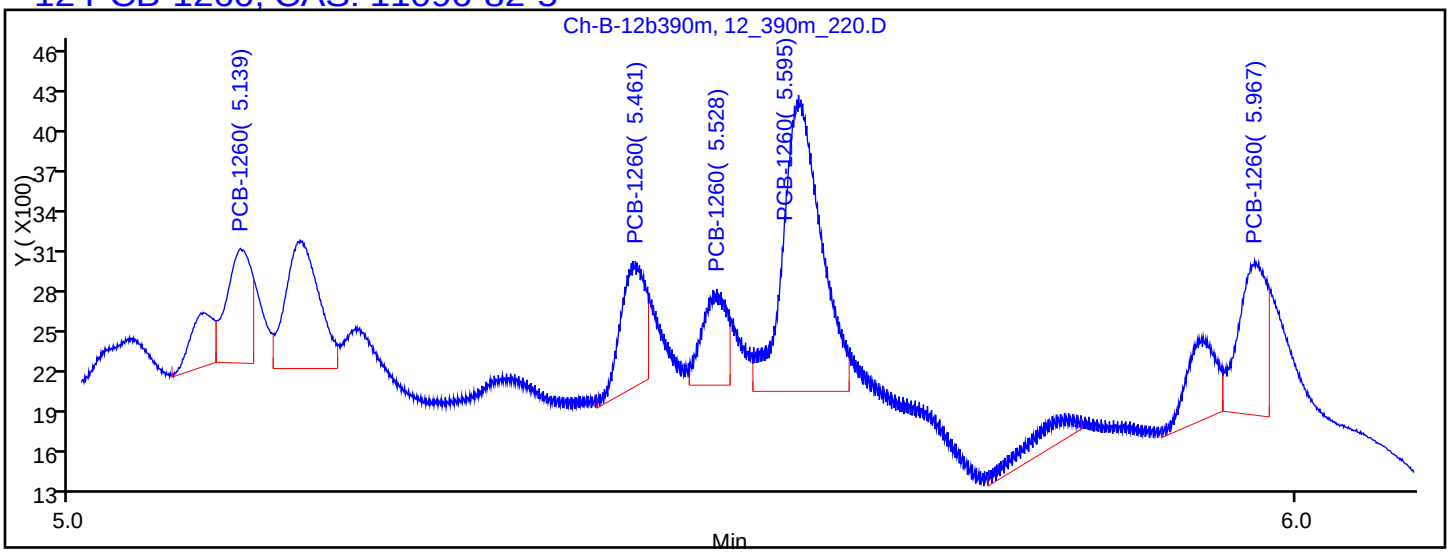
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 23

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 5890-12 PCB IS Limit Group: GC - 8082A PCB IS ICAL

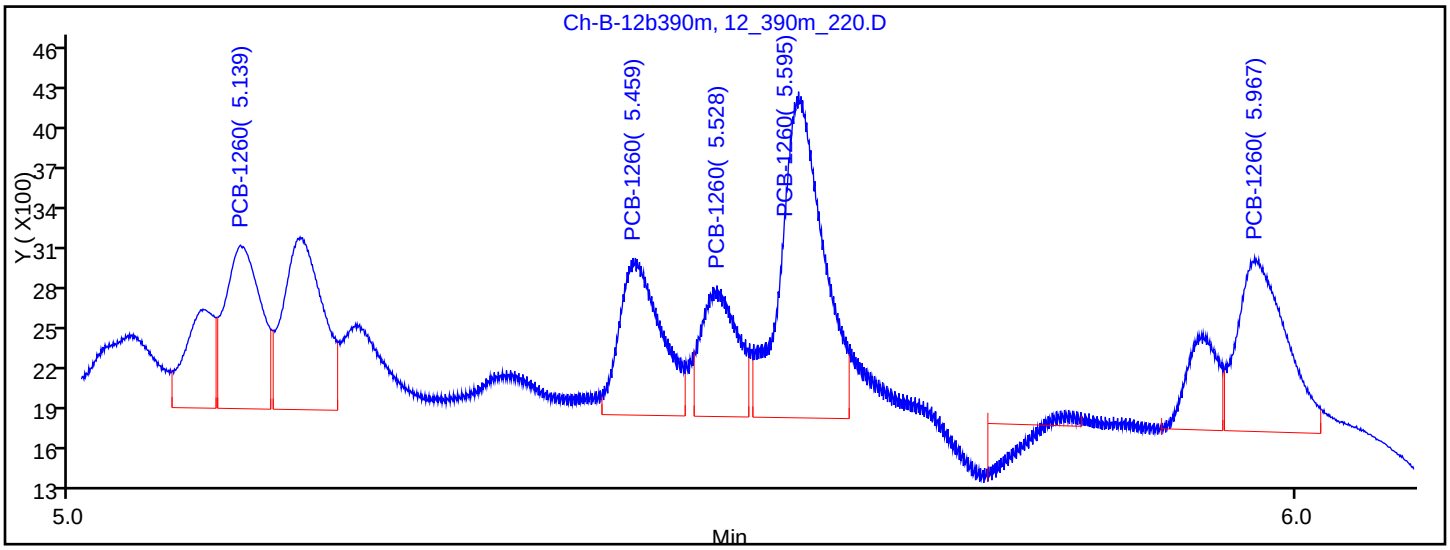
Column: Detector Ch-B-7b136

12 PCB-1260, CAS: 11096-82-5



Processing Integration Results

5.139	Response = 1157
5.461	Response = 1288
5.528	Response = 956
5.595	Response = 4714
5.967	Response = 1807



Manual Integration Results

5.139	Response = 2420	M
5.459	Response = 2743	M
5.528	Response = 1920	M
5.595	Response = 5759	M
5.967	Response = 3556	M

Reviewer: owenj, 12-May-2017 15:38:24

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

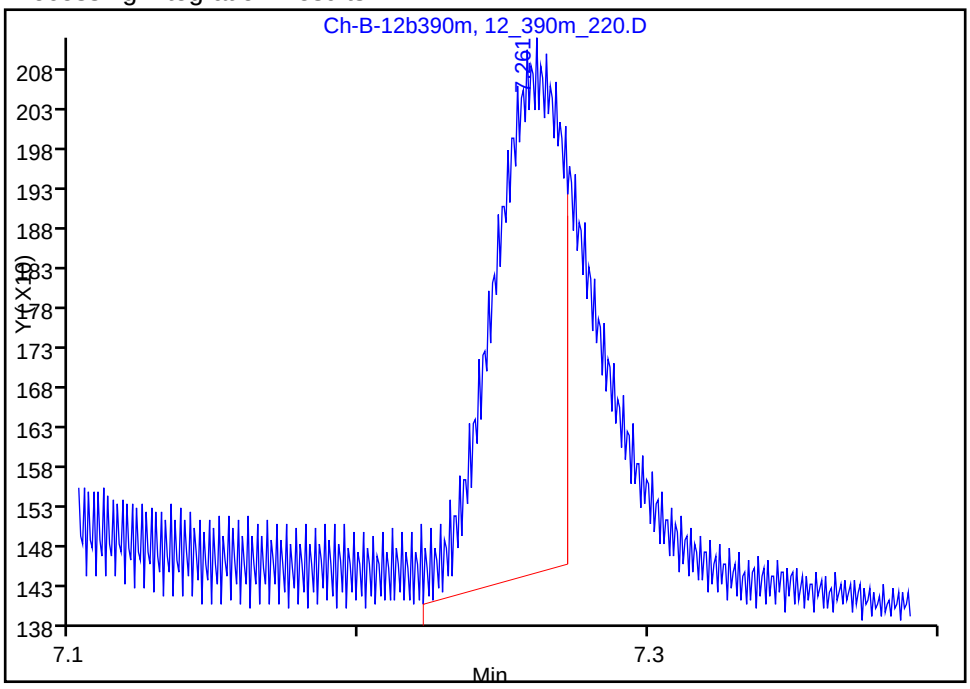
Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170511-62436.b\12_390m_220.D
Injection Date: 11-May-2017 18:19:55 Instrument ID: HP5890-12
Lims ID: IC 1
Client ID:
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 23
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 5890-12 PCB IS Limit Group: GC - 8082A PCB IS ICAL
Column: Detector Ch-B-7b136

$ 15 DCB Decachlorobiphenyl, CAS: 2051-24-3

Signal: 2

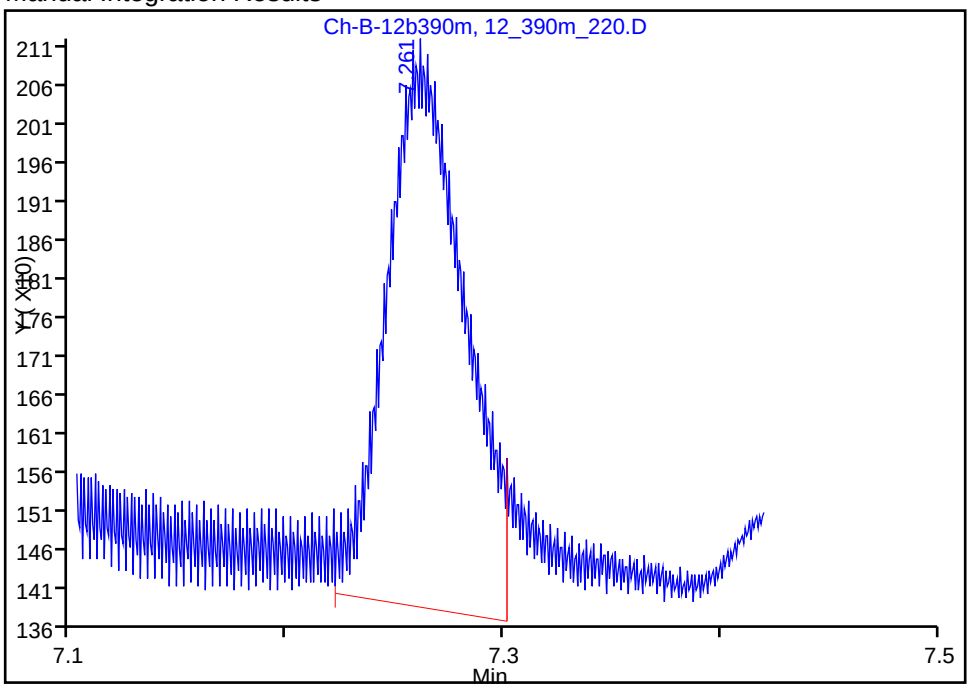
Processing Integration Results

RT: 7.26
Area: 1038
Amount: 0.000404
Amount Units: ng/uL



Manual Integration Results

RT: 7.26
Area: 1769
Amount: 0.000496
Amount Units: ng/uL



Reviewer: owenj, 12-May-2017 15:38:53
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

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

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1 Analy Batch No.: 356902

SDG No.:

Instrument ID: HP5890-12 GC Column: ZB-5 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/11/2017 19:52 Calibration End Date: 05/11/2017 20:22 Calibration ID: 30521

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-356902/31	12_390m_228.D
Level 2	IC 480-356902/30	12_390m_227.D
Level 3	IC 480-356902/29	12_390m_226.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3				B	M1	M2								
PCB-1221 Peak 1	0.0210	0.0135	0.0120			Lin1	0.0002	0.0122							0.9980		0.9900
PCB-1221 Peak 2	0.0223	0.0126	0.0127			Lin1	0.0002	0.0125							1.0000		0.9900
PCB-1221 Peak 3	0.0507	0.0416	0.0386			Lin1	0.0003	0.0390							0.9990		0.9900
PCB-1254 Peak 1	0.0991	0.0666	0.0617			Lin1	0.0008	0.0620							0.9990		0.9900
PCB-1254 Peak 2	0.1051	0.0853	0.0862			Lin1	0.0004	0.0857							1.0000		0.9900
PCB-1254 Peak 3	0.1322	0.0947	0.0894			Lin1	0.0009	0.0897							1.0000		0.9900
PCB-1254 Peak 4	0.0834	0.0564	0.0575			Lin1	0.0005	0.0569							1.0000		0.9900
PCB-1254 Peak 5	0.0761	0.0793	0.0781			Lin1	0	0.0784							1.0000		0.9900

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

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

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1 Analy Batch No.: 356902

SDG No.:

Instrument ID: HP5890-12 GC Column: ZB-5 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/11/2017 19:52 Calibration End Date: 05/11/2017 20:22 Calibration ID: 30521

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-356902/31	12_390m_228.D
Level 2	IC 480-356902/30	12_390m_227.D
Level 3	IC 480-356902/29	12_390m_226.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1	LVL 2	LVL 3			LVL 1	LVL 2	LVL 3		
PCB-1221 Peak 1	BNB	Lin1	1022	16831	55573			0.0200	0.500	2.00		
PCB-1221 Peak 2	BNB	Lin1	1081	15651	58748			0.0200	0.500	2.00		
PCB-1221 Peak 3	BNB	Lin1	2461	51774	178163			0.0200	0.500	2.00		
PCB-1254 Peak 1	BNB	Lin1	4811	83041	284917			0.0200	0.500	2.00		
PCB-1254 Peak 2	BNB	Lin1	5104	106312	398033			0.0200	0.500	2.00		
PCB-1254 Peak 3	BNB	Lin1	6422	117963	412789			0.0200	0.500	2.00		
PCB-1254 Peak 4	BNB	Lin1	4049	70258	265326			0.0200	0.500	2.00		
PCB-1254 Peak 5	BNB	Lin1	3695	98825	360625			0.0200	0.500	2.00		

Curve Type Legend:
Lin1 = Linear 1/conc ISTD

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170511-62436.b\12_390m_226.D
Lims ID: IC 3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 11-May-2017 19:52:03 ALS Bottle#: 0 Worklist Smp#: 29
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP5890-12
Sublist: chrom-5890-12 PCB IS*sub2

Method: \\ChromNA\Buffalo\ChromData\HP5890-12\20170511-62436.b\5890-12 PCB IS.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 12-May-2017 16:48:44 Calib Date: 11-May-2017 21:24:09
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170511-62436.b\12_390m_232.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK011

First Level Reviewer: owenj Date: 12-May-2017 16:43:43

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.319	1.319	0.000	1154315	0.5000	0.5000	
2	1.616	1.616	0.000	1033084	0.5000	0.5000	
						RPD = 0.00	
5 PCB-1221							
1	1.607	1.609	-0.002	55573	2.00	1.96	
1	2.024	2.024	0.000	58748	2.00	2.01	
1	2.118	2.123	-0.005	178163	2.00	1.97	
		Average of Peak Amounts =				1.98	
2	1.944	1.947	-0.003	40141	2.00	2.01	
2	2.457	2.459	-0.002	48611	2.00	2.05	
2	2.611	2.617	-0.006	118715	2.00	1.98	
		Average of Peak Amounts =				2.01	
						RPD = 1.45	
11 PCB-1254							
1	3.541	3.547	-0.006	284917	2.00	1.98	
1	3.823	3.827	-0.004	398033	2.00	2.01	
1	4.013	4.017	-0.004	412789	2.00	1.98	
1	4.222	4.223	-0.001	265326	2.00	2.01	
1	4.399	4.403	-0.004	360625	2.00	1.99	
		Average of Peak Amounts =				1.99	
2	4.149	4.153	-0.004	211085	2.00	1.99	
2	4.461	4.464	-0.003	144493	2.00	2.03	
2	4.549	4.554	-0.005	324727	2.00	1.97	
2	4.675	4.693	-0.018	342129	2.00	1.99	
2	5.125	5.129	-0.004	241100	2.00	2.03	
		Average of Peak Amounts =				2.00	
						RPD = 0.40	

Reagents:

21-54w/IS@2.0_00006 Amount Added: 1.00 Units: mL

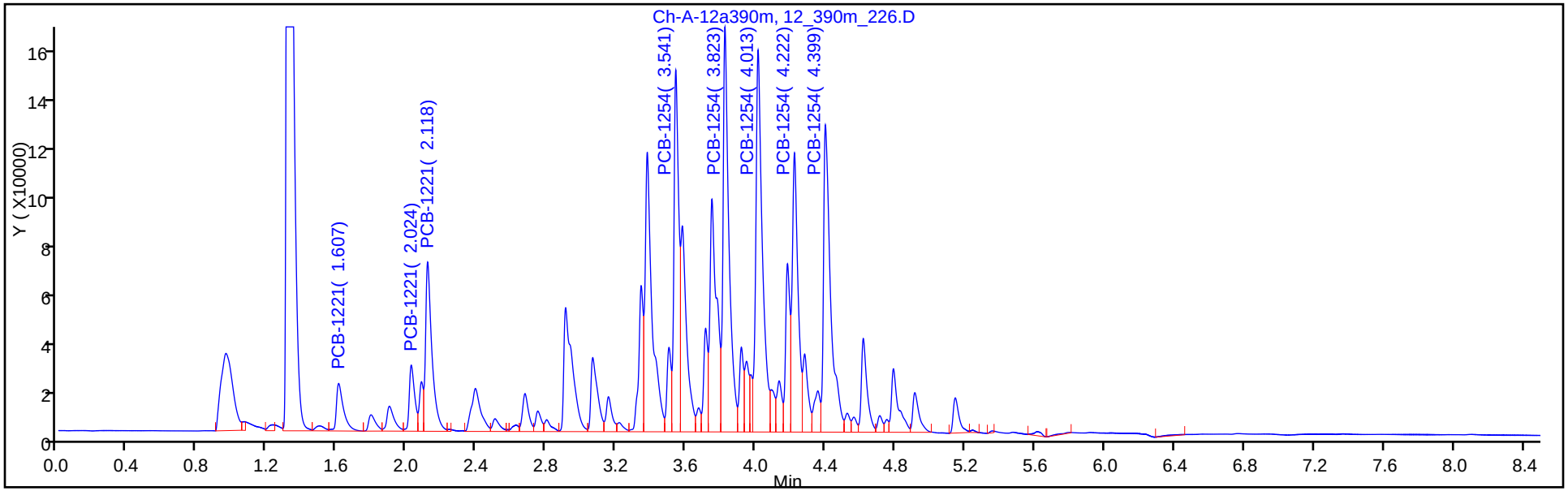
Report Date: 12-May-2017 16:48:45 Chrom Revision: 2.2 18-Apr-2017 07:43:58

TestAmerica Buffalo

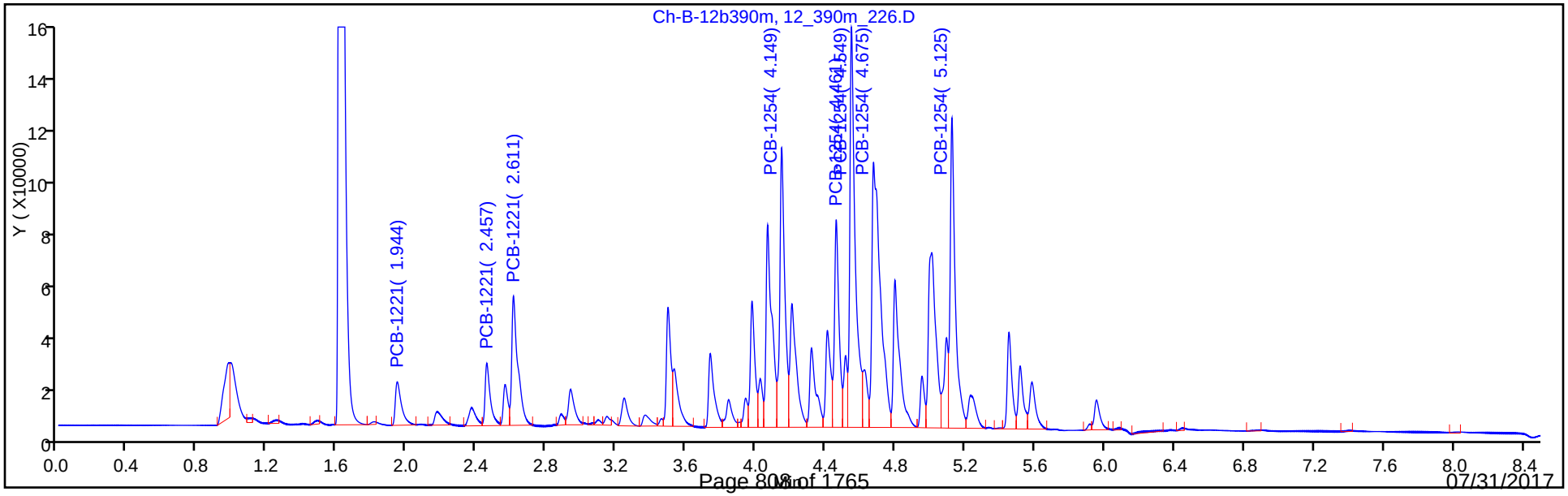
Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170511-62436.b\12_390m_226.D

Injection Date:	11-May-2017 19:52:03	Instrument ID:	HP5890-12	Operator ID:	BufTCHROM
Lims ID:	IC 3			Worklist Smp#:	29
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	5890-12 PCB IS	Limit Group:	GC - 8082A PCB IS ICAL		

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



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



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170511-62436.b\12_390m_227.D
Lims ID: IC 2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 11-May-2017 20:07:24 ALS Bottle#: 0 Worklist Smp#: 30
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP5890-12
Sublist: chrom-5890-12 PCB IS*sub2

Method: \\ChromNA\Buffalo\ChromData\HP5890-12\20170511-62436.b\5890-12 PCB IS.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 12-May-2017 16:48:49 Calib Date: 11-May-2017 21:24:09
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170511-62436.b\12_390m_232.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK011

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.318	1.319	-0.001	1245976	0.5000	0.5000	
2	1.615	1.616	-0.001	1104534	0.5000	0.5000	
						RPD = 0.00	
5 PCB-1221							
1	1.609	1.609	0.000	16831	0.5000	0.5392	
1	2.025	2.024	0.001	15651	0.5000	0.4857	
1	2.121	2.123	-0.002	51774	0.5000	0.5265	
		Average of Peak Amounts =				0.5171	
2	1.946	1.947	-0.001	10946	0.5000	0.4928	
2	2.459	2.459	0.000	11784	0.5000	0.4519	
2	2.612	2.617	-0.005	34033	0.5000	0.5172	
		Average of Peak Amounts =				0.4873	
						RPD = 5.94	
11 PCB-1254							
1	3.543	3.547	-0.004	83041	0.5000	0.5244	
1	3.825	3.827	-0.002	106312	0.5000	0.4933	
1	4.015	4.017	-0.002	117963	0.5000	0.5176	
1	4.222	4.223	-0.001	70258	0.5000	0.4870	
1	4.401	4.403	-0.002	98825	0.5000	0.5065	
		Average of Peak Amounts =				0.5057	
2	4.151	4.153	-0.002	57454	0.5000	0.5099	
2	4.463	4.464	-0.001	35305	0.5000	0.4659	
2	4.551	4.554	-0.003	93898	0.5000	0.5330	
2	4.679	4.693	-0.014	94383	0.5000	0.5100	
2	5.127	5.129	-0.002	59585	0.5000	0.4688	
		Average of Peak Amounts =				0.4975	
						RPD = 1.64	

Reagents:

21-54w/IS@0.5_00008 Amount Added: 1.00 Units: mL

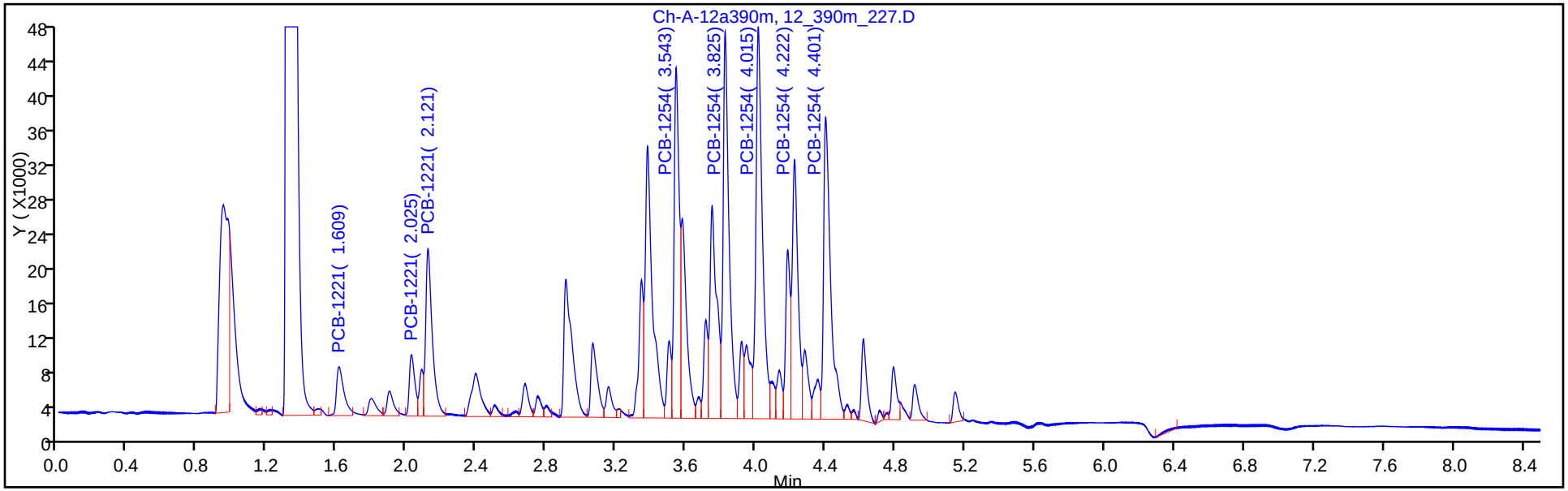
Report Date: 12-May-2017 16:48:49 Chrom Revision: 2.2 18-Apr-2017 07:43:58

TestAmerica Buffalo

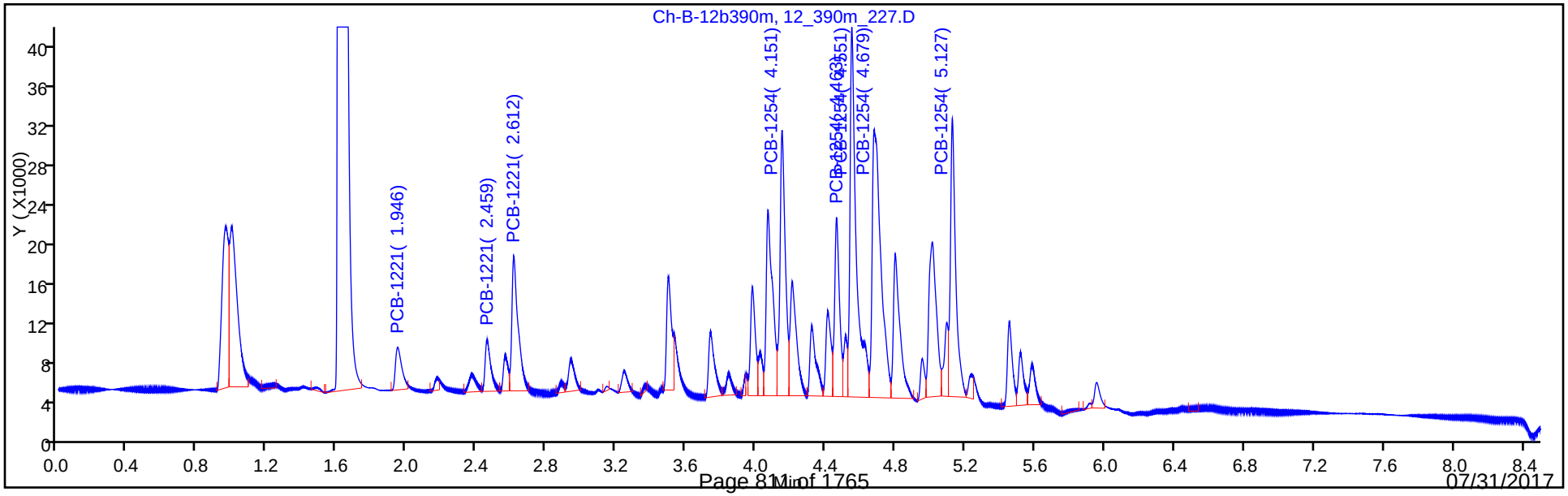
Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170511-62436.b\12_390m_227.D

Injection Date:	11-May-2017 20:07:24	Instrument ID:	HP5890-12	Operator ID:	BufTCHROM
Lims ID:	IC 2			Worklist Smp#:	30
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	5890-12 PCB IS	Limit Group:	GC - 8082A PCB IS ICAL		

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



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



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170511-62436.b\12_390m_228.D
Lims ID: IC 1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 11-May-2017 20:22:44 ALS Bottle#: 0 Worklist Smp#: 31
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP5890-12
Sublist: chrom-5890-12 PCB IS*sub2

Method: \\ChromNA\Buffalo\ChromData\HP5890-12\20170511-62436.b\5890-12 PCB IS.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 12-May-2017 16:48:51 Calib Date: 11-May-2017 21:24:09
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170511-62436.b\12_390m_232.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK011

First Level Reviewer: owenj Date: 12-May-2017 16:42:01

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.319	1.319	0.000	1214193	0.5000	0.5000	
2	1.616	1.616	0.000	1072861	0.5000	0.5000	
						RPD = 0.00	
5 PCB-1221							M
1	1.609	1.609	0.000	1022	0.0200	0.0188	M
1	2.024	2.024	0.000	1081	0.0200	0.0204	M
1	2.123	2.123	0.000	2461	0.0200	0.0192	M
		Average of Peak Amounts =				0.0195	
2	1.947	1.947	0.000	939	0.0200	0.0202	M
2	2.459	2.459	0.000	910	0.0200	0.0215	M
2	2.617	2.617	0.000	2428	0.0200	0.0195	M
		Average of Peak Amounts =				0.0204	
						RPD = 4.54	
11 PCB-1254							M
1	3.547	3.547	0.000	4811	0.0200	0.0193	
1	3.827	3.827	0.000	5104	0.0200	0.0202	
1	4.017	4.017	0.000	6422	0.0200	0.0195	
1	4.223	4.223	0.000	4049	0.0200	0.0204	
1	4.403	4.403	0.000	3695	0.0200	0.0198	
		Average of Peak Amounts =				0.0198	
2	4.153	4.153	0.000	1709	0.0200	0.0197	M
2	4.464	4.464	0.000	1431	0.0200	0.0210	M
2	4.554	4.554	0.000	3083	0.0200	0.0190	M
2	4.693	4.693	0.000	4358	0.0200	0.0197	M
2	5.129	5.129	0.000	2655	0.0200	0.0209	M
		Average of Peak Amounts =				0.0201	
						RPD = 1.25	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

21-54w/IS@.02_00005 Amount Added: 1.00 Units: mL

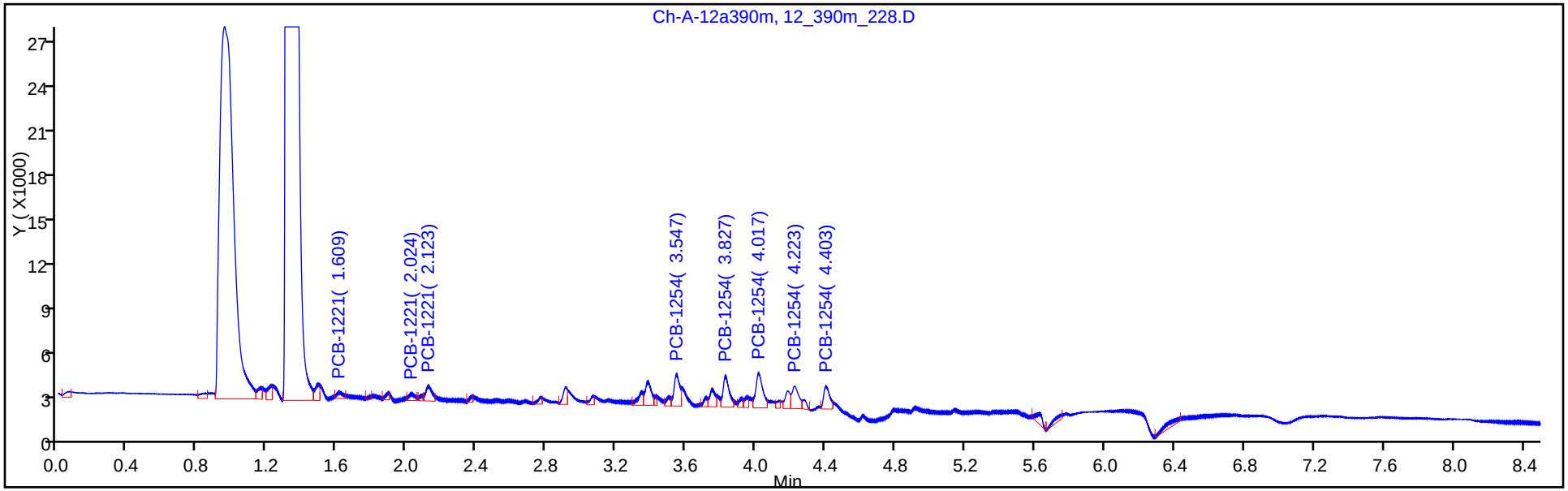
Report Date: 12-May-2017 16:48:52 Chrom Revision: 2.2 18-Apr-2017 07:43:58

TestAmerica Buffalo

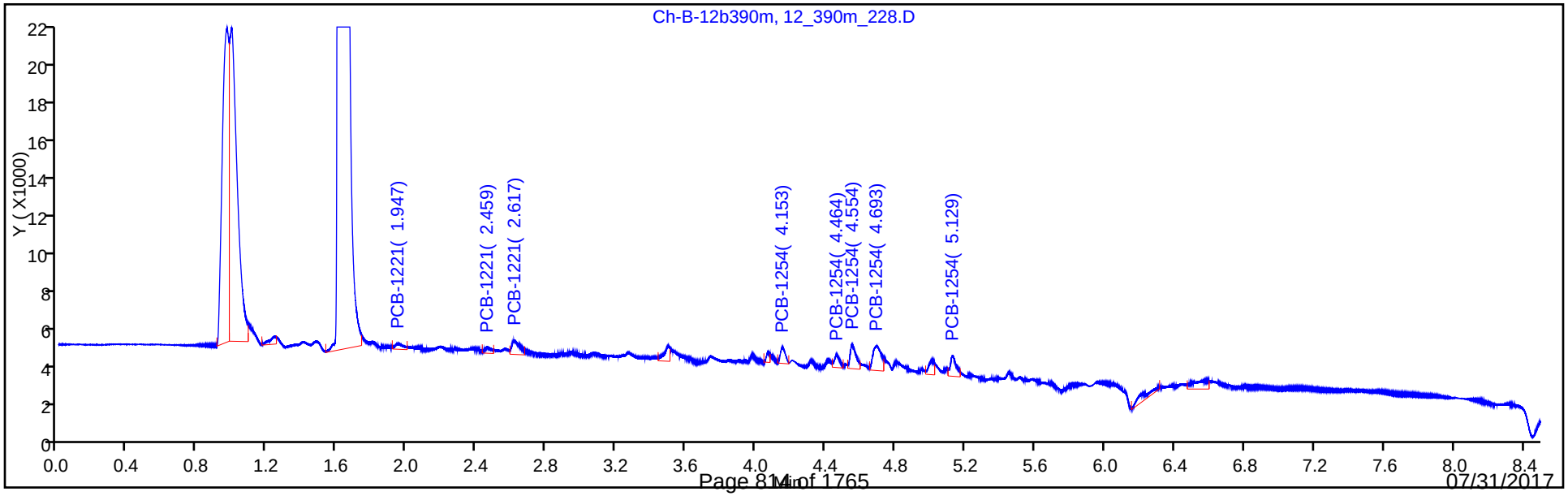
Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170511-62436.b\12_390m_228.D

Injection Date:	11-May-2017 20:22:44	Instrument ID:	HP5890-12	Operator ID:	BufTCHROM
Lims ID:	IC 1			Worklist Smp#:	31
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	5890-12 PCB IS	Limit Group:	GC - 8082A PCB IS ICAL		

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



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



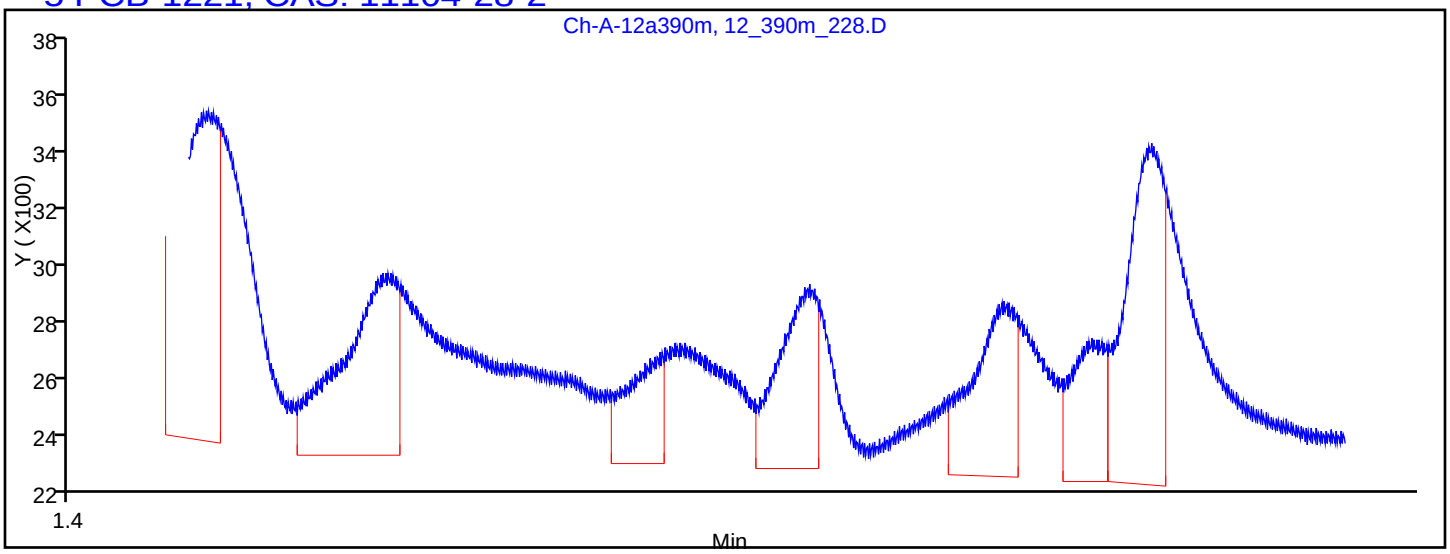
Report Date: 12-May-2017 16:48:52 Chrom Revision: 2.2 18-Apr-2017 07:43:58

TestAmerica Buffalo

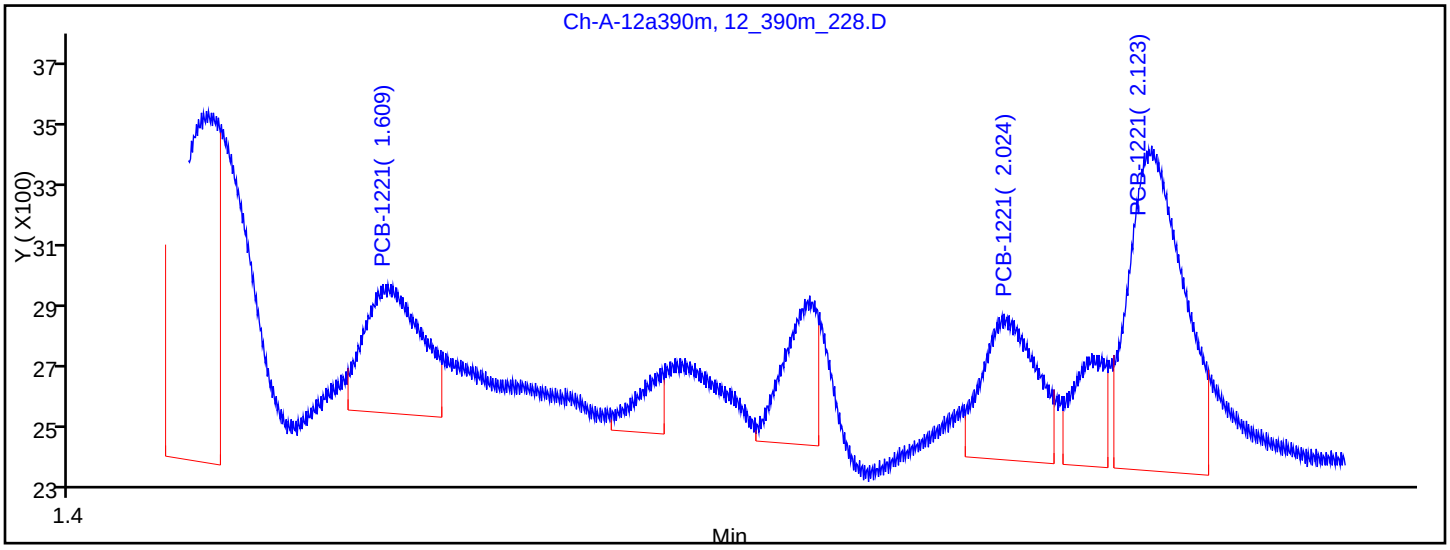
Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170511-62436.b\12_390m_228.D

Injection Date:	11-May-2017 20:22:44	Instrument ID:	HP5890-12		
Lims ID:	IC 1				
Client ID:					
Operator ID:	BufTCHROM	ALS Bottle#:	0	Worklist Smp#:	31
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	5890-12 PCB IS	Limit Group:	GC - 8082A PCB IS ICAL		
Column:		Detector	Ch-A-7A136		

5 PCB-1221, CAS: 11104-28-2



Processing Integration Results



Manual Integration Results

1.609	Response = 1022	M
2.024	Response = 1081	M
2.123	Response = 2461	M

Reviewer: owenj, 12-May-2017 16:41:39

Audit Action: Manually Integrated/Assigned Compound ID Audit Reason: Split Peak

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

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1 Analy Batch No.: 356902

SDG No.:

Instrument ID: HP5890-12 GC Column: ZB-35 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/11/2017 19:52 Calibration End Date: 05/11/2017 20:22 Calibration ID: 30522

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-356902/31	12_390m_228.D
Level 2	IC 480-356902/30	12_390m_227.D
Level 3	IC 480-356902/29	12_390m_226.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3				B	M1	M2								
PCB-1221 Peak 1	0.0219	0.0099	0.0097			Lin1	0.0002	0.0096							1.0000		0.9900
PCB-1221 Peak 2	0.0212	0.0107	0.0118			Lin1	0.0002	0.0114							0.9980		0.9900
PCB-1221 Peak 3	0.0566	0.0308	0.0287			Lin1	0.0006	0.0287							1.0000		0.9900
PCB-1254 Peak 1	0.0398	0.0520	0.0511			Lin1	0	0.0514							1.0000		0.9900
PCB-1254 Peak 2	0.0333	0.0320	0.0350			Lin1	0	0.0344							0.9990		0.9900
PCB-1254 Peak 3	0.0718	0.0850	0.0786			Lin1	0	0.0799							0.9990		0.9900
PCB-1254 Peak 4	0.1016	0.0855	0.0828			Lin1	0.0004	0.0830							1.0000		0.9900
PCB-1254 Peak 5	0.0619	0.0539	0.0583			Lin1	0	0.0575							0.9990		0.9900

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

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

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1 Analy Batch No.: 356902

SDG No.:

Instrument ID: HP5890-12 GC Column: ZB-35 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/11/2017 19:52 Calibration End Date: 05/11/2017 20:22 Calibration ID: 30522

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-356902/31	12_390m_228.D
Level 2	IC 480-356902/30	12_390m_227.D
Level 3	IC 480-356902/29	12_390m_226.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1	LVL 2	LVL 3			LVL 1	LVL 2	LVL 3		
PCB-1221 Peak 1	BNB	Lin1	939	10946	40141			0.0200	0.500	2.00		
PCB-1221 Peak 2	BNB	Lin1	910	11784	48611			0.0200	0.500	2.00		
PCB-1221 Peak 3	BNB	Lin1	2428	34033	118715			0.0200	0.500	2.00		
PCB-1254 Peak 1	BNB	Lin1	1709	57454	211085			0.0200	0.500	2.00		
PCB-1254 Peak 2	BNB	Lin1	1431	35305	144493			0.0200	0.500	2.00		
PCB-1254 Peak 3	BNB	Lin1	3083	93898	324727			0.0200	0.500	2.00		
PCB-1254 Peak 4	BNB	Lin1	4358	94383	342129			0.0200	0.500	2.00		
PCB-1254 Peak 5	BNB	Lin1	2655	59585	241100			0.0200	0.500	2.00		

Curve Type Legend:
Lin1 = Linear 1/conc ISTD

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170511-62436.b\12_390m_226.D
Lims ID: IC 3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 11-May-2017 19:52:03 ALS Bottle#: 0 Worklist Smp#: 29
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP5890-12
Sublist: chrom-5890-12 PCB IS*sub2

Method: \\ChromNA\Buffalo\ChromData\HP5890-12\20170511-62436.b\5890-12 PCB IS.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 12-May-2017 16:48:44 Calib Date: 11-May-2017 21:24:09
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170511-62436.b\12_390m_232.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK011

First Level Reviewer: owenj Date: 12-May-2017 16:43:43

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.319	1.319	0.000	1154315	0.5000	0.5000	
2	1.616	1.616	0.000	1033084	0.5000	0.5000	
						RPD = 0.00	
5 PCB-1221							
1	1.607	1.609	-0.002	55573	2.00	1.96	
1	2.024	2.024	0.000	58748	2.00	2.01	
1	2.118	2.123	-0.005	178163	2.00	1.97	
		Average of Peak Amounts =				1.98	
2	1.944	1.947	-0.003	40141	2.00	2.01	
2	2.457	2.459	-0.002	48611	2.00	2.05	
2	2.611	2.617	-0.006	118715	2.00	1.98	
		Average of Peak Amounts =				2.01	
						RPD = 1.45	
11 PCB-1254							
1	3.541	3.547	-0.006	284917	2.00	1.98	
1	3.823	3.827	-0.004	398033	2.00	2.01	
1	4.013	4.017	-0.004	412789	2.00	1.98	
1	4.222	4.223	-0.001	265326	2.00	2.01	
1	4.399	4.403	-0.004	360625	2.00	1.99	
		Average of Peak Amounts =				1.99	
2	4.149	4.153	-0.004	211085	2.00	1.99	
2	4.461	4.464	-0.003	144493	2.00	2.03	
2	4.549	4.554	-0.005	324727	2.00	1.97	
2	4.675	4.693	-0.018	342129	2.00	1.99	
2	5.125	5.129	-0.004	241100	2.00	2.03	
		Average of Peak Amounts =				2.00	
						RPD = 0.40	

Reagents:

21-54w/IS@2.0_00006 Amount Added: 1.00 Units: mL

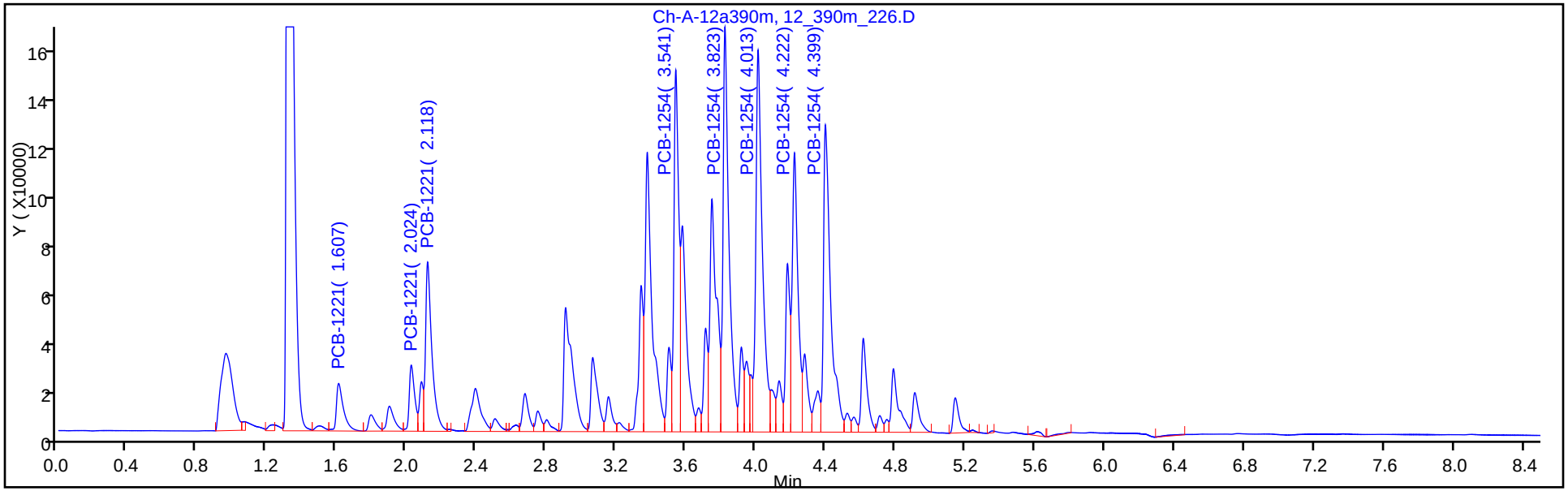
Report Date: 12-May-2017 16:48:45 Chrom Revision: 2.2 18-Apr-2017 07:43:58

TestAmerica Buffalo

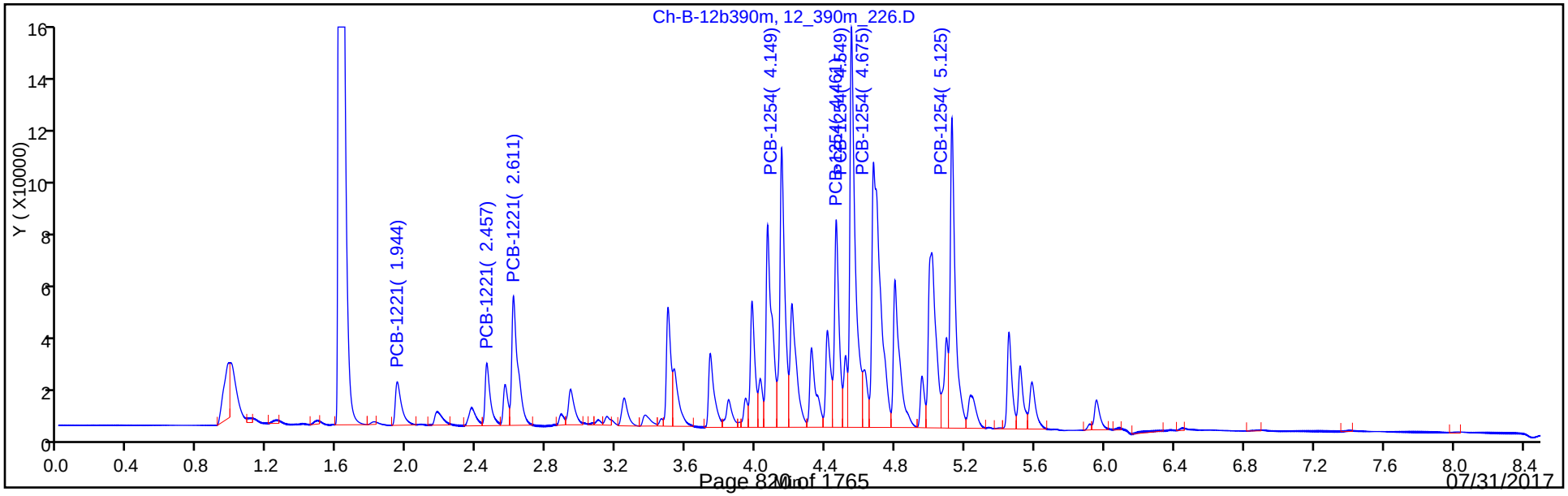
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Injection Date:	11-May-2017 19:52:03	Instrument ID:	HP5890-12	Operator ID:	BufTCHROM
Lims ID:	IC 3			Worklist Smp#:	29
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	5890-12 PCB IS	Limit Group:	GC - 8082A PCB IS ICAL		

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



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



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170511-62436.b\12_390m_227.D
Lims ID: IC 2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 11-May-2017 20:07:24 ALS Bottle#: 0 Worklist Smp#: 30
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP5890-12
Sublist: chrom-5890-12 PCB IS*sub2

Method: \\ChromNA\Buffalo\ChromData\HP5890-12\20170511-62436.b\5890-12 PCB IS.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 12-May-2017 16:48:49 Calib Date: 11-May-2017 21:24:09
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170511-62436.b\12_390m_232.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK011

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.318	1.319	-0.001	1245976	0.5000	0.5000	
2	1.615	1.616	-0.001	1104534	0.5000	0.5000	
						RPD = 0.00	
5 PCB-1221							
1	1.609	1.609	0.000	16831	0.5000	0.5392	
1	2.025	2.024	0.001	15651	0.5000	0.4857	
1	2.121	2.123	-0.002	51774	0.5000	0.5265	
		Average of Peak Amounts =				0.5171	
2	1.946	1.947	-0.001	10946	0.5000	0.4928	
2	2.459	2.459	0.000	11784	0.5000	0.4519	
2	2.612	2.617	-0.005	34033	0.5000	0.5172	
		Average of Peak Amounts =				0.4873	
						RPD = 5.94	
11 PCB-1254							
1	3.543	3.547	-0.004	83041	0.5000	0.5244	
1	3.825	3.827	-0.002	106312	0.5000	0.4933	
1	4.015	4.017	-0.002	117963	0.5000	0.5176	
1	4.222	4.223	-0.001	70258	0.5000	0.4870	
1	4.401	4.403	-0.002	98825	0.5000	0.5065	
		Average of Peak Amounts =				0.5057	
2	4.151	4.153	-0.002	57454	0.5000	0.5099	
2	4.463	4.464	-0.001	35305	0.5000	0.4659	
2	4.551	4.554	-0.003	93898	0.5000	0.5330	
2	4.679	4.693	-0.014	94383	0.5000	0.5100	
2	5.127	5.129	-0.002	59585	0.5000	0.4688	
		Average of Peak Amounts =				0.4975	
						RPD = 1.64	

Reagents:

21-54w/IS@0.5_00008 Amount Added: 1.00 Units: mL

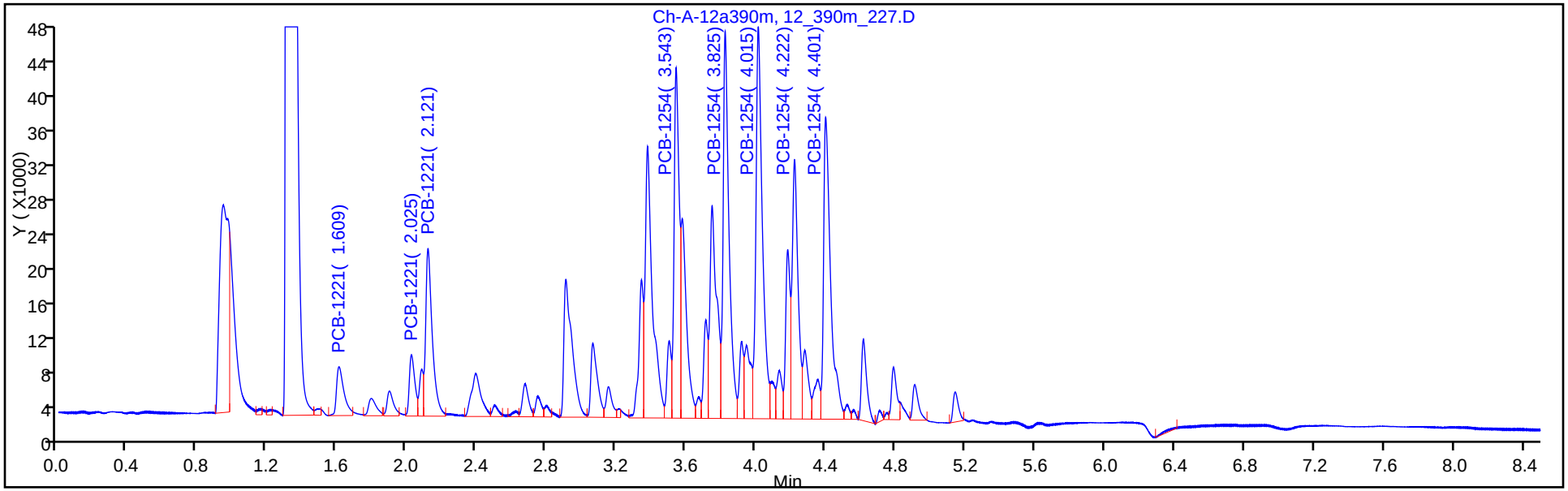
Report Date: 12-May-2017 16:48:50 Chrom Revision: 2.2 18-Apr-2017 07:43:58

TestAmerica Buffalo

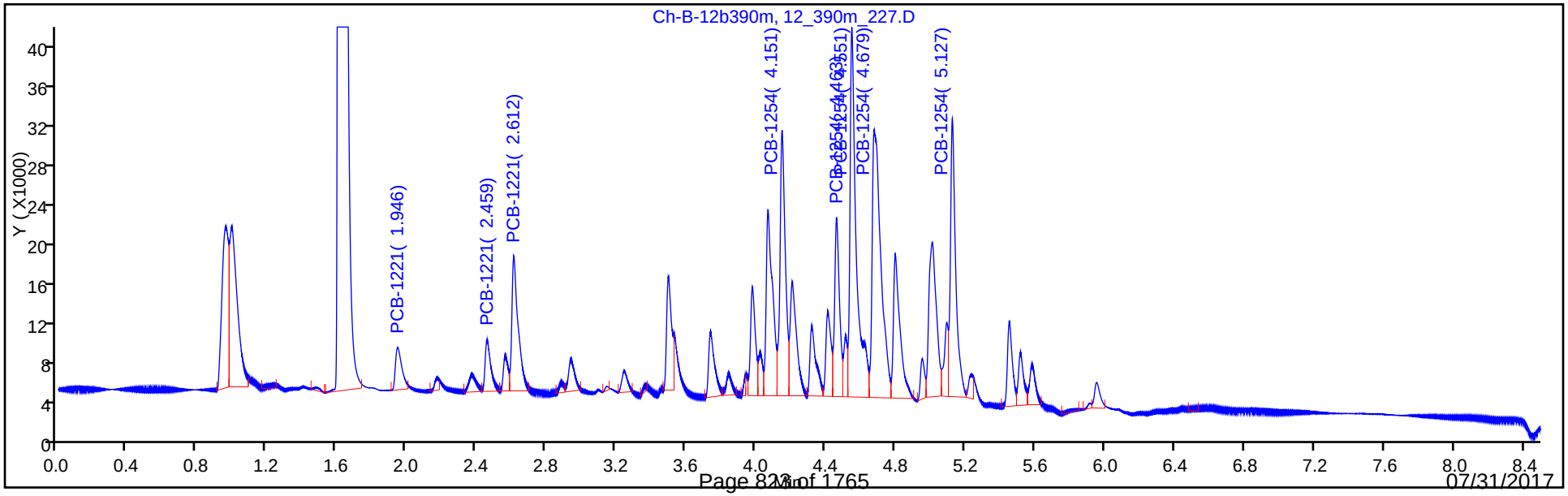
Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170511-62436.b\12_390m_227.D

Injection Date:	11-May-2017 20:07:24	Instrument ID:	HP5890-12	Operator ID:	BufTCHROM
Lims ID:	IC 2			Worklist Smp#:	30
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	5890-12 PCB IS	Limit Group:	GC - 8082A PCB IS ICAL		

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



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



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170511-62436.b\12_390m_228.D
Lims ID: IC 1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 11-May-2017 20:22:44 ALS Bottle#: 0 Worklist Smp#: 31
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP5890-12
Sublist: chrom-5890-12 PCB IS*sub2

Method: \\ChromNA\Buffalo\ChromData\HP5890-12\20170511-62436.b\5890-12 PCB IS.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 12-May-2017 16:48:51 Calib Date: 11-May-2017 21:24:09
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170511-62436.b\12_390m_232.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK011

First Level Reviewer: owenj Date: 12-May-2017 16:42:01

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.319	1.319	0.000	1214193	0.5000	0.5000	
2	1.616	1.616	0.000	1072861	0.5000	0.5000	
						RPD = 0.00	
5 PCB-1221							M
1	1.609	1.609	0.000	1022	0.0200	0.0188	M
1	2.024	2.024	0.000	1081	0.0200	0.0204	M
1	2.123	2.123	0.000	2461	0.0200	0.0192	M
		Average of Peak Amounts =				0.0195	
2	1.947	1.947	0.000	939	0.0200	0.0202	M
2	2.459	2.459	0.000	910	0.0200	0.0215	M
2	2.617	2.617	0.000	2428	0.0200	0.0195	M
		Average of Peak Amounts =				0.0204	
						RPD = 4.54	
11 PCB-1254							M
1	3.547	3.547	0.000	4811	0.0200	0.0193	
1	3.827	3.827	0.000	5104	0.0200	0.0202	
1	4.017	4.017	0.000	6422	0.0200	0.0195	
1	4.223	4.223	0.000	4049	0.0200	0.0204	
1	4.403	4.403	0.000	3695	0.0200	0.0198	
		Average of Peak Amounts =				0.0198	
2	4.153	4.153	0.000	1709	0.0200	0.0197	M
2	4.464	4.464	0.000	1431	0.0200	0.0210	M
2	4.554	4.554	0.000	3083	0.0200	0.0190	M
2	4.693	4.693	0.000	4358	0.0200	0.0197	M
2	5.129	5.129	0.000	2655	0.0200	0.0209	M
		Average of Peak Amounts =				0.0201	
						RPD = 1.25	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

21-54w/IS@.02_00005 Amount Added: 1.00 Units: mL

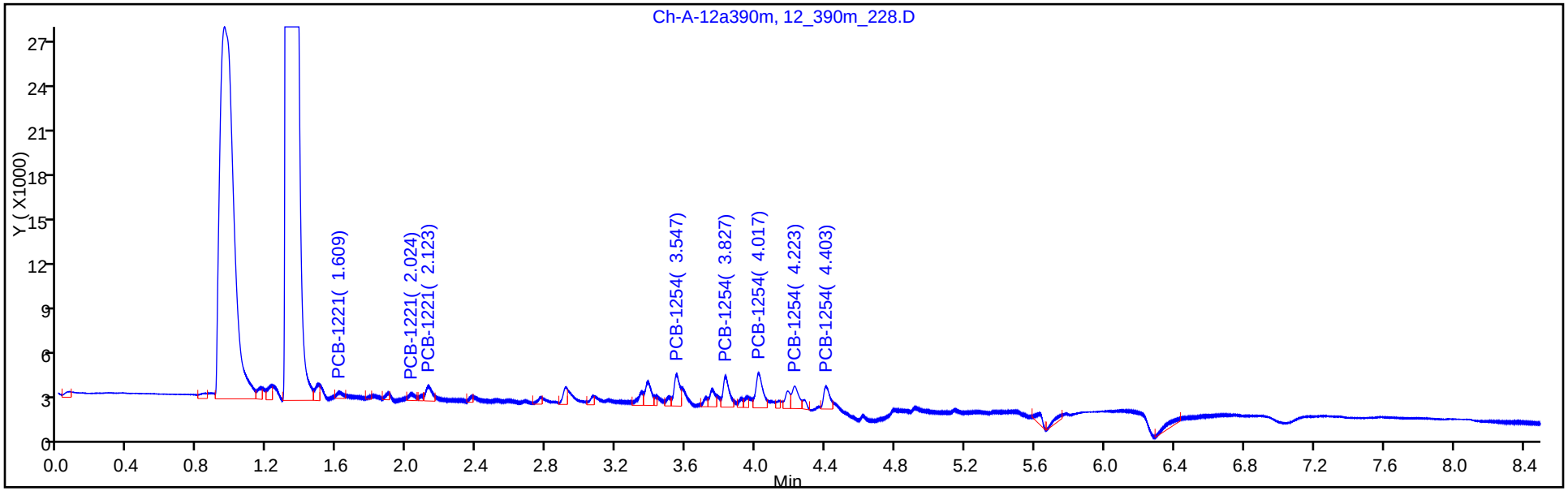
Report Date: 12-May-2017 16:48:52 Chrom Revision: 2.2 18-Apr-2017 07:43:58

TestAmerica Buffalo

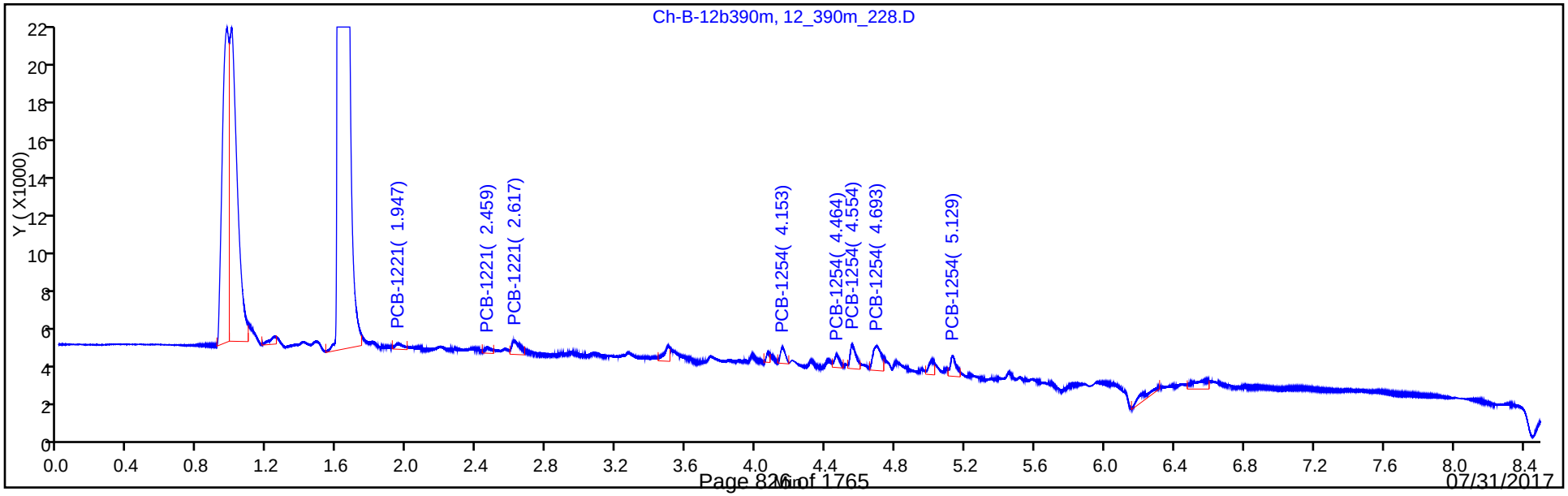
Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170511-62436.b\12_390m_228.D

Injection Date:	11-May-2017 20:22:44	Instrument ID:	HP5890-12	Operator ID:	BufTCHROM
Lims ID:	IC 1			Worklist Smp#:	31
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	5890-12 PCB IS	Limit Group:	GC - 8082A PCB IS ICAL		

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



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



Report Date: 12-May-2017 16:48:52 Chrom Revision: 2.2 18-Apr-2017 07:43:58

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170511-62436.b\12_390m_228.D

Injection Date: 11-May-2017 20:22:44 Instrument ID: HP5890-12

Lims ID: IC 1

Client ID:

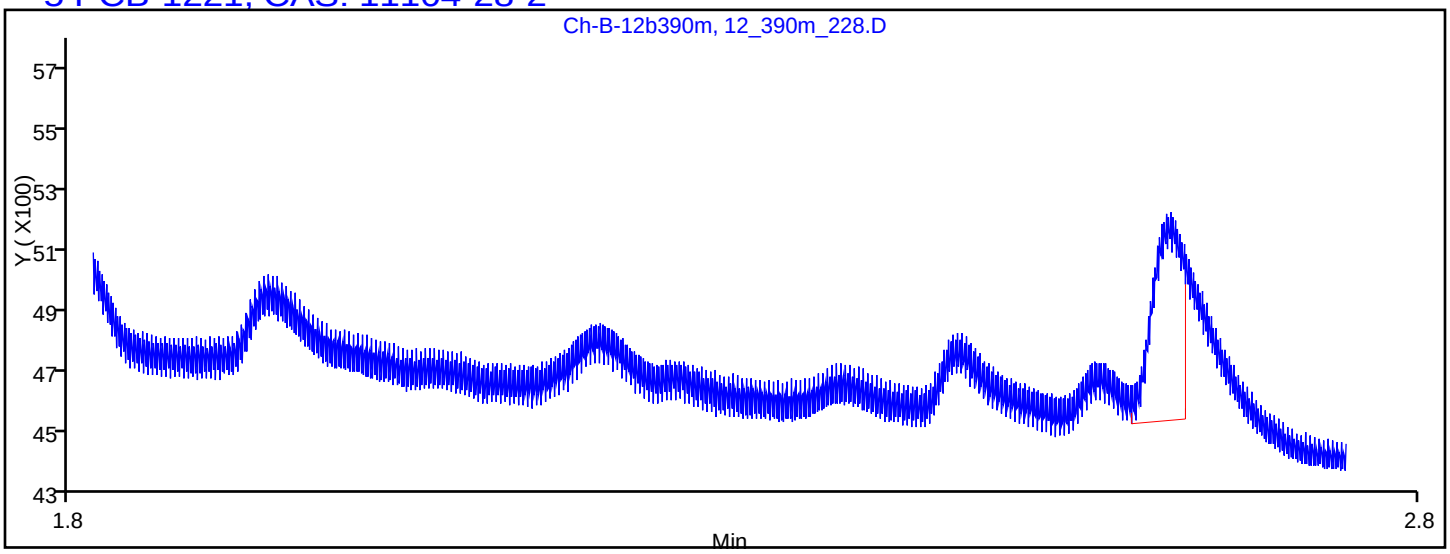
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 31

Injection Vol: 1.0 ul Dil. Factor: 1.0000

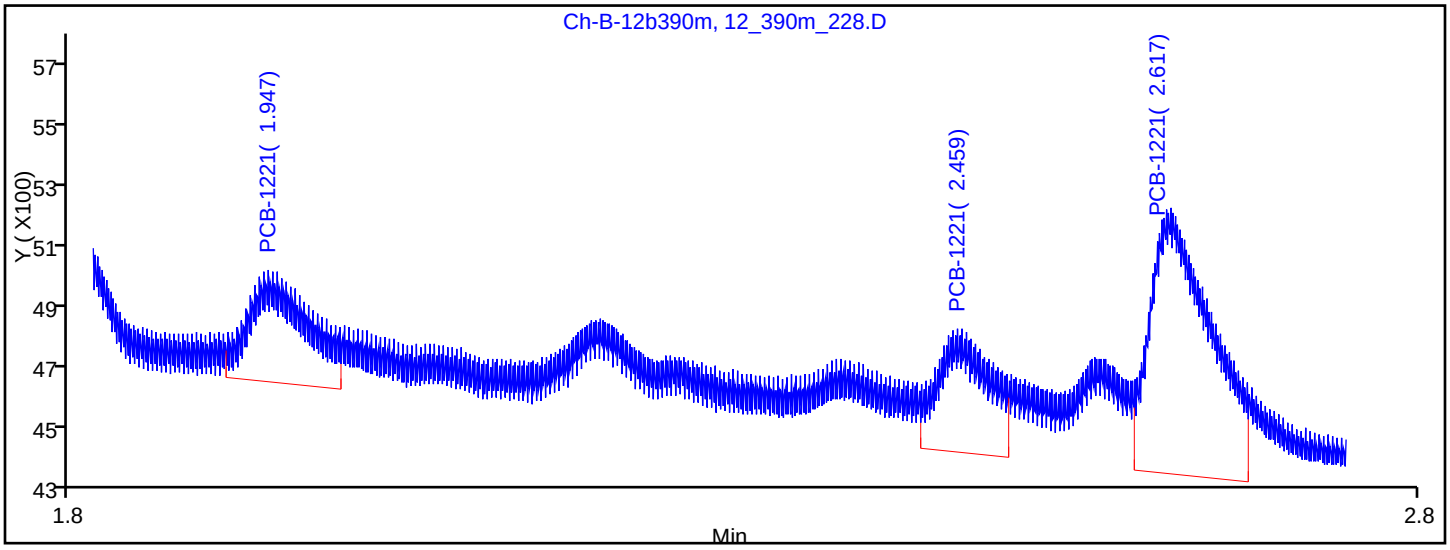
Method: 5890-12 PCB IS Limit Group: GC - 8082A PCB IS ICAL

Column: Detector Ch-B-7b136

5 PCB-1221, CAS: 11104-28-2



Processing Integration Results



Manual Integration Results

1.947	Response = 939	M
2.459	Response = 910	M
2.617	Response = 2428	M

Reviewer: owenj, 12-May-2017 16:41:48

Audit Action: Manually Integrated/Assigned Compound ID Audit Reason: Split Peak

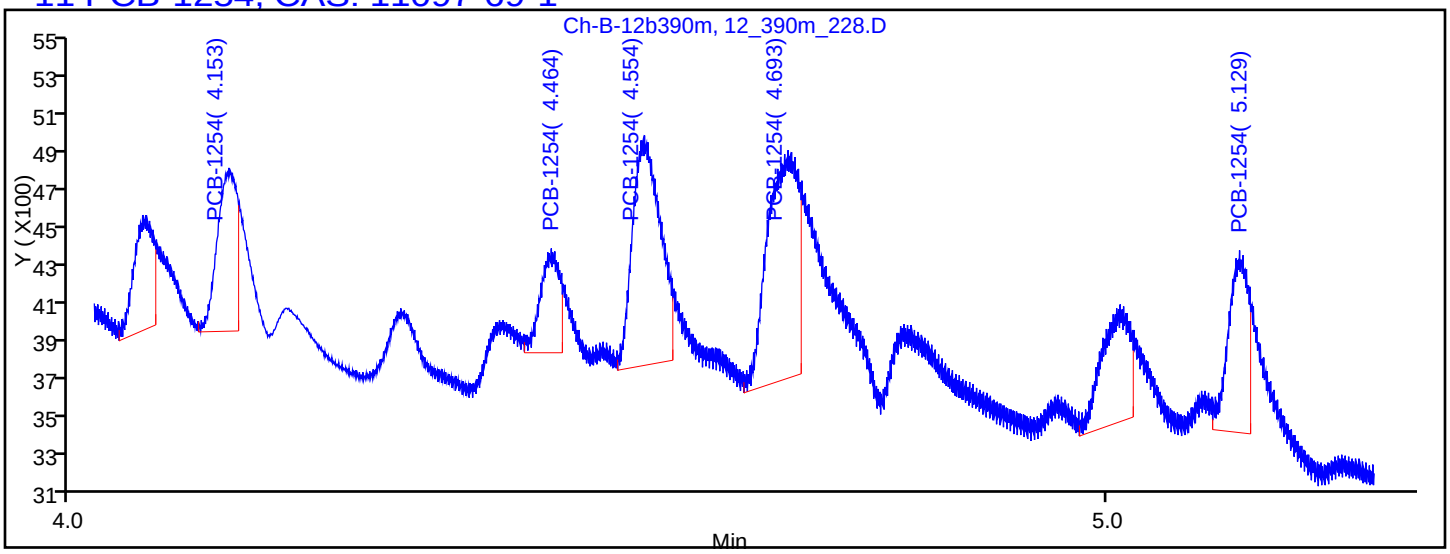
Report Date: 12-May-2017 16:48:52 Chrom Revision: 2.2 18-Apr-2017 07:43:58

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170511-62436.b\12_390m_228.D

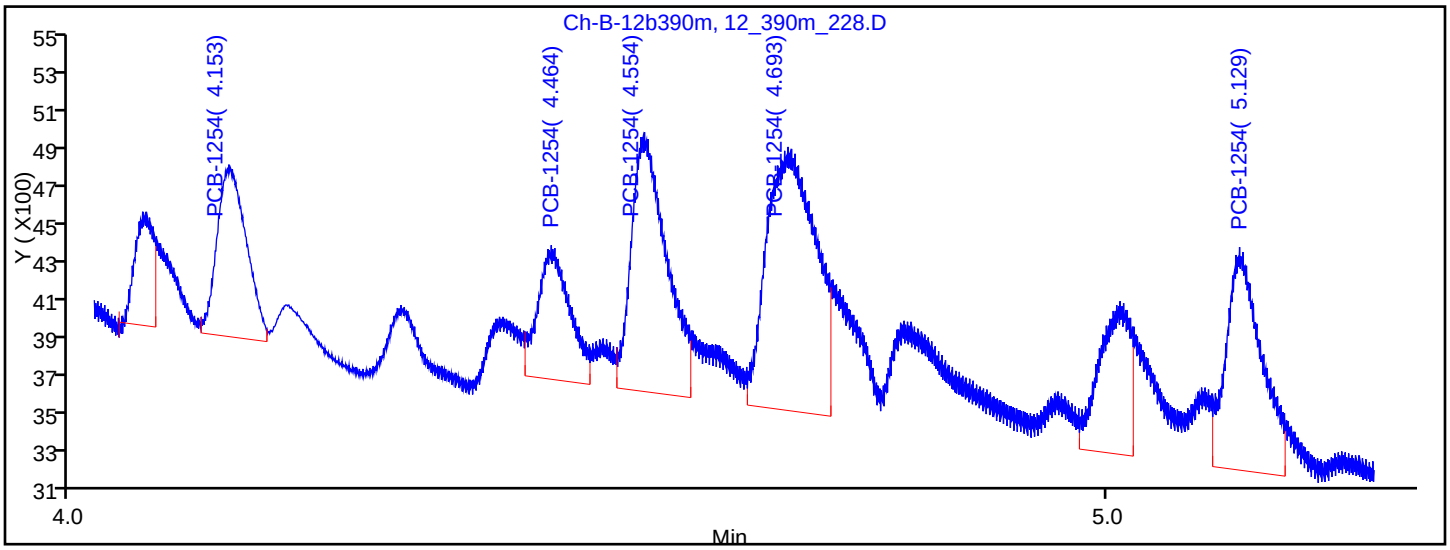
Injection Date:	11-May-2017 20:22:44	Instrument ID:	HP5890-12		
Lims ID:	IC 1				
Client ID:					
Operator ID:	BufTCHROM	ALS Bottle#:	0	Worklist Smp#:	31
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	5890-12 PCB IS	Limit Group:	GC - 8082A PCB IS ICAL		
Column:		Detector	Ch-B-7b136		

11 PCB-1254, CAS: 11097-69-1



Processing Integration Results

4.153	Response = 1062
4.464	Response = 653
4.554	Response = 2168
4.693	Response = 2374
5.129	Response = 1188



Manual Integration Results

4.153	Response = 1709	M
4.464	Response = 1431	M
4.554	Response = 3083	M
4.693	Response = 4358	M
5.129	Response = 2655	M

Reviewer: owenj, 12-May-2017 16:41:32

Audit Action: Assigned New Baseline Audit Reason: Split Peak

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

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1 Analy Batch No.: 356902

SDG No.:

Instrument ID: HP5890-12 GC Column: ZB-5 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/11/2017 20:53 Calibration End Date: 05/11/2017 21:24 Calibration ID: 30533

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-356902/35	12_390m_232.D
Level 2	IC 480-356902/34	12_390m_231.D
Level 3	IC 480-356902/33	12_390m_230.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3				B	M1	M2								
PCB-1232 Peak 1	0.0487	0.0348	0.0318			Lin1	0.0004	0.0321							0.9990		0.9900
PCB-1232 Peak 2	0.0360	0.0309	0.0296			Lin1	0.0001	0.0297							1.0000		0.9900
PCB-1232 Peak 3	0.0171	0.0118	0.0143			Lin1	0	0.0138							0.9940		0.9900
PCB-1232 Peak 4	0.0477	0.0452	0.0450			Lin1	0.0001	0.0450							1.0000		0.9900
PCB-1232 Peak 5	0.0286	0.0183	0.0186			Lin1	0.0002	0.0184							1.0000		0.9900
PCB-1262 Peak 1	0.0643	0.0681	0.0595			Lin1	0.0002	0.0610							0.9970		0.9900
PCB-1262 Peak 2	0.0305	0.0456	0.0437			Lin1	0	0.0443							1.0000		0.9900
PCB-1262 Peak 3	0.0369	0.0389	0.0381			Lin1	0	0.0383							1.0000		0.9900
PCB-1262 Peak 4	0.0510	0.0517	0.0474			Lin1	0.0001	0.0481							0.9990		0.9900
PCB-1262 Peak 5	0.0715	0.0807	0.0810			Lin1	0	0.0811							1.0000		0.9900

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

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

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1 Analy Batch No.: 356902

SDG No.:

Instrument ID: HP5890-12 GC Column: ZB-5 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/11/2017 20:53 Calibration End Date: 05/11/2017 21:24 Calibration ID: 30533

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-356902/35	12_390m_232.D
Level 2	IC 480-356902/34	12_390m_231.D
Level 3	IC 480-356902/33	12_390m_230.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1	LVL 2	LVL 3			LVL 1	LVL 2	LVL 3		
PCB-1232 Peak 1	BNB	Lin1	2562	44000	170718			0.0200	0.500	2.00		
PCB-1232 Peak 2	BNB	Lin1	1893	38995	159128			0.0200	0.500	2.00		
PCB-1232 Peak 3	BNB	Lin1	897	14962	77043			0.0200	0.500	2.00		
PCB-1232 Peak 4	BNB	Lin1	2507	57106	242066			0.0200	0.500	2.00		
PCB-1232 Peak 5	BNB	Lin1	1504	23173	100143			0.0200	0.500	2.00		
PCB-1262 Peak 1	BNB	Lin1	3384	86037	319527			0.0200	0.500	2.00		
PCB-1262 Peak 2	BNB	Lin1	1604	57612	234993			0.0200	0.500	2.00		
PCB-1262 Peak 3	BNB	Lin1	1939	49208	204942			0.0200	0.500	2.00		
PCB-1262 Peak 4	BNB	Lin1	2684	65363	254650			0.0200	0.500	2.00		
PCB-1262 Peak 5	BNB	Lin1	3760	101909	435290			0.0200	0.500	2.00		

Curve Type Legend:
Lin1 = Linear 1/conc ISTD

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170511-62436.b\12_390m_230.D
Lims ID: IC 3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 11-May-2017 20:53:28 ALS Bottle#: 0 Worklist Smp#: 33
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP5890-12
Sublist: chrom-5890-12 PCB IS*sub3

Method: \\ChromNA\Buffalo\ChromData\HP5890-12\20170511-62436.b\5890-12 PCB IS.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 12-May-2017 16:48:59 Calib Date: 11-May-2017 21:24:09
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170511-62436.b\12_390m_232.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK011

First Level Reviewer: owenj Date: 12-May-2017 16:44:46

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.318	1.319	-0.001	1343483	0.5000	0.5000	
2	1.615	1.616	-0.001	1182649	0.5000	0.5000	
						RPD = 0.00	
7 PCB-1232							
1	2.117	2.122	-0.005	170718	2.00	1.97	
1	2.383	2.381	0.002	159128	2.00	1.99	
1	2.500	2.503	-0.003	77043	2.00	2.07	
1	2.673	2.678	-0.005	242066	2.00	2.00	
1	2.745	2.765	-0.020	100143	2.00	2.01	
		Average of Peak Amounts =				2.01	
2	2.609	2.615	-0.006	120208	2.00	1.99	
2	2.931	2.937	-0.006	105453	2.00	2.01	
2	3.241	3.247	-0.006	181184	2.00	2.01	
2	3.359	3.364	-0.005	73808	2.00	2.06	
2	3.739	3.745	-0.006	81592	2.00	2.03	
		Average of Peak Amounts =				2.02	
						RPD = 0.61	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
13 PCB-1262							
1	4.521	4.526	-0.005	319527	2.00	1.95	
1	4.705	4.712	-0.007	234993	2.00	1.98	
1	5.141	5.146	-0.005	204942	2.00	1.99	
1	5.198	5.203	-0.005	254650	2.00	1.97	
1	5.238	5.243	-0.005	435290	2.00	2.00	
		Average of Peak Amounts =				1.98	
2	5.171	5.179	-0.008	271510	2.00	1.96	
2	5.442	5.447	-0.005	247106	2.00	1.98	
2	5.577	5.584	-0.007	598558	2.00	1.98	
2	5.904	5.911	-0.007	218572	2.00	1.96	a
2	5.947	5.954	-0.007	454044	2.00	1.98	a
		Average of Peak Amounts =				1.97	
						RPD = 0.26	

Reagents:

32-62w/IS@2.0_00005 Amount Added: 1.00 Units: mL

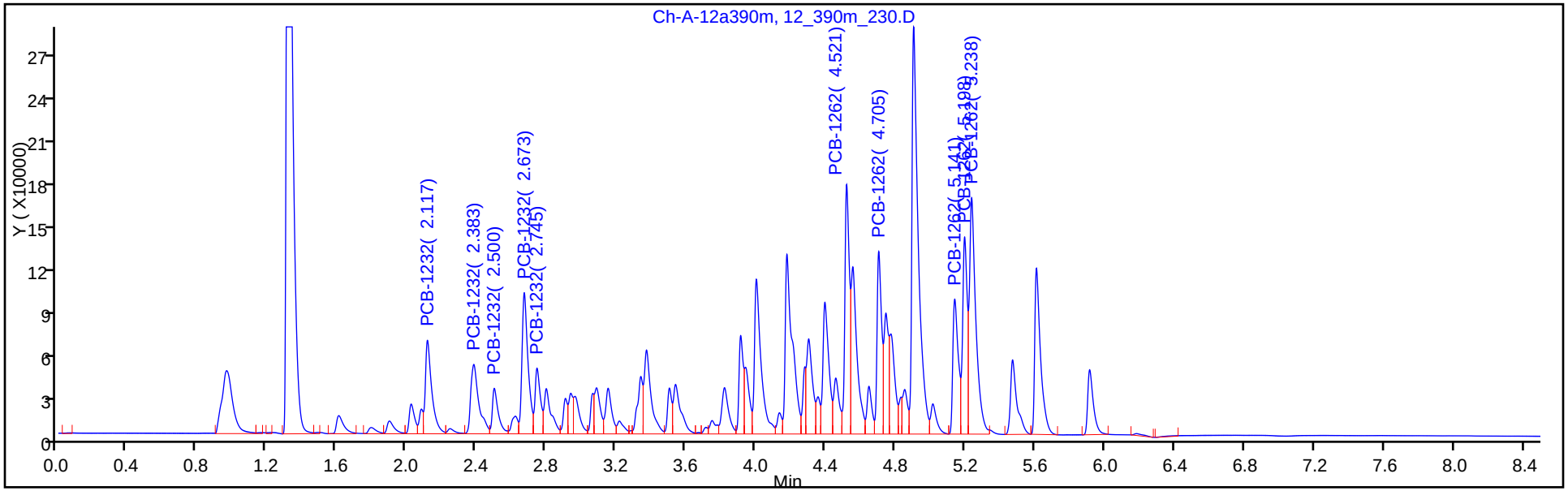
Report Date: 12-May-2017 16:48:59 Chrom Revision: 2.2 18-Apr-2017 07:43:58

TestAmerica Buffalo

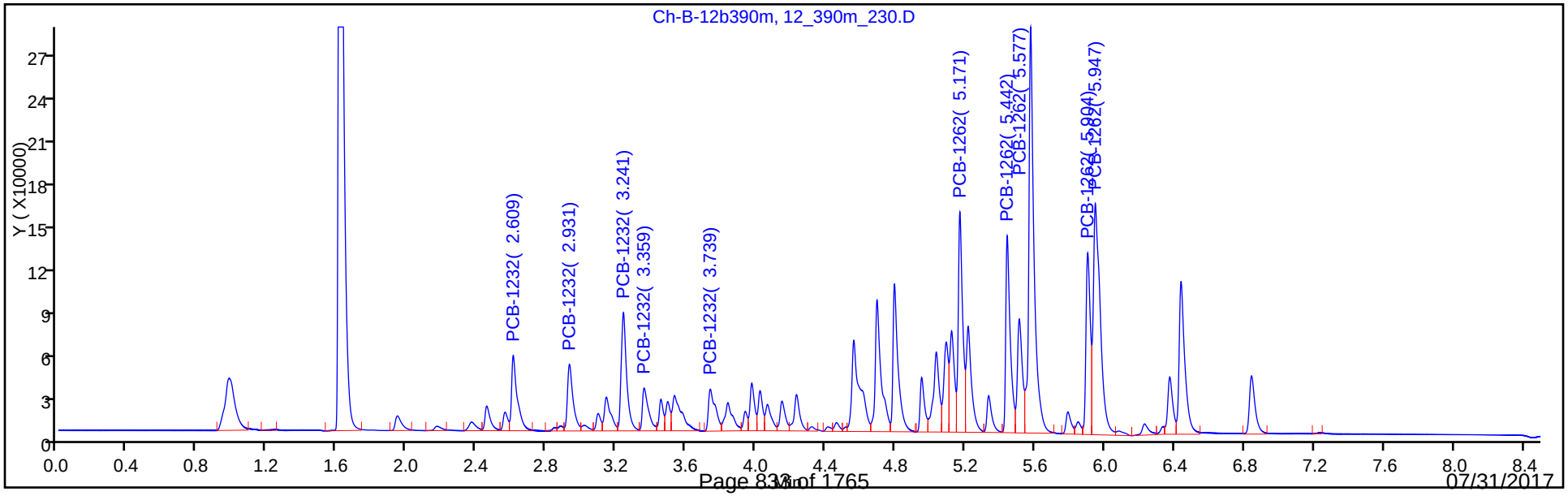
Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170511-62436.b\12_390m_230.D

Injection Date:	11-May-2017 20:53:28	Instrument ID:	HP5890-12	Operator ID:	BufTCHROM
Lims ID:	IC 3			Worklist Smp#:	33
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	5890-12 PCB IS	Limit Group:	GC - 8082A PCB IS ICAL		

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



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



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170511-62436.b\12_390m_231.D
Lims ID: IC 2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 11-May-2017 21:08:50 ALS Bottle#: 0 Worklist Smp#: 34
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP5890-12
Sublist: chrom-5890-12 PCB IS*sub3

Method: \\ChromNA\Buffalo\ChromData\HP5890-12\20170511-62436.b\5890-12 PCB IS.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 12-May-2017 16:49:02 Calib Date: 11-May-2017 21:24:09
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170511-62436.b\12_390m_232.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK011

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.318	1.319	-0.001	1263529	0.5000	0.5000	
2	1.615	1.616	-0.001	1111416	0.5000	0.5000	
						RPD = 0.00	
7 PCB-1232							
1	2.119	2.122	-0.003	44000	0.5000	0.5315	
1	2.385	2.381	0.004	38995	0.5000	0.5141	
1	2.502	2.503	-0.001	14962	0.5000	0.4259	
1	2.675	2.678	-0.003	57106	0.5000	0.5006	
1	2.748	2.765	-0.017	23173	0.5000	0.4871	
		Average of Peak Amounts =				0.4919	
2	2.612	2.615	-0.003	29240	0.5000	0.5134	
2	2.935	2.937	-0.002	24389	0.5000	0.4901	
2	3.244	3.247	-0.003	41481	0.5000	0.4855	
2	3.364	3.364	0.000	14768	0.5000	0.4373	
2	3.743	3.745	-0.002	17895	0.5000	0.4696	
		Average of Peak Amounts =				0.4792	
						RPD = 2.61	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
13 PCB-1262							
1	4.523	4.526	-0.003	86037	0.5000	0.5553	
1	4.707	4.712	-0.005	57612	0.5000	0.5204	
1	5.143	5.146	-0.003	49208	0.5000	0.5088	
1	5.200	5.203	-0.003	65363	0.5000	0.5349	
1	5.239	5.243	-0.004	101909	0.5000	0.4997	
		Average of Peak Amounts =				0.5238	
2	5.174	5.179	-0.005	70972	0.5000	0.5434	
2	5.445	5.447	-0.002	61615	0.5000	0.5255	
2	5.579	5.584	-0.005	147211	0.5000	0.5212	
2	5.907	5.911	-0.004	56250	0.5000	0.5393	
2	5.951	5.954	-0.003	109421	0.5000	0.5165	
		Average of Peak Amounts =				0.5292	
						RPD = 1.02	

Reagents:

32-62w/IS@0.5_00008 Amount Added: 1.00 Units: mL

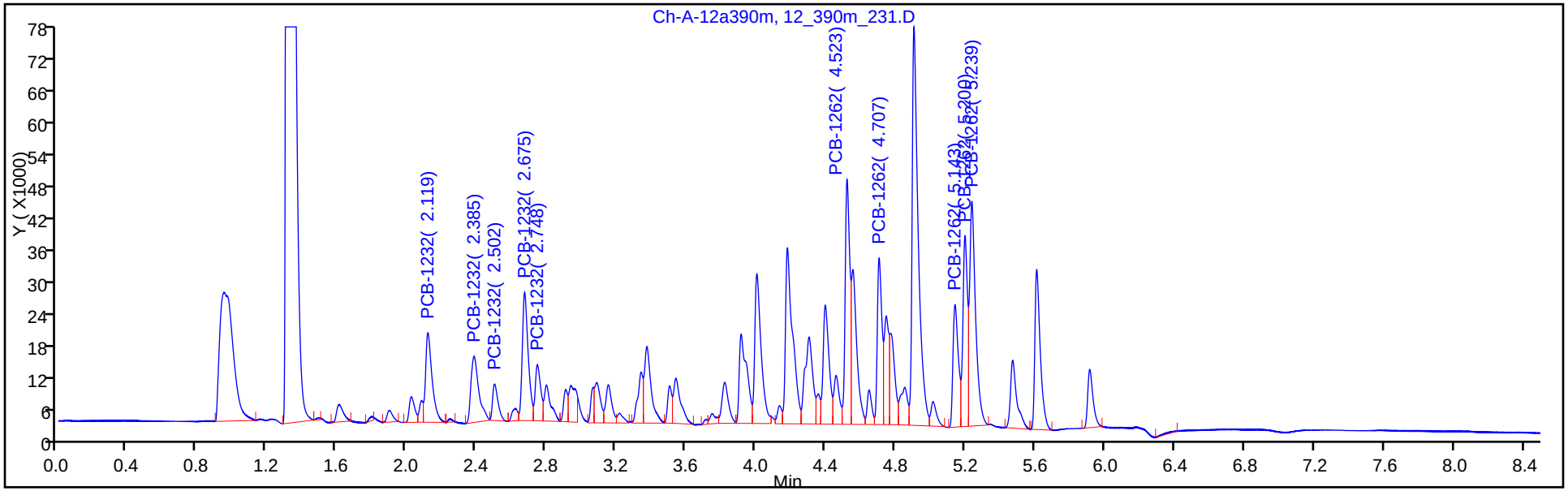
Report Date: 12-May-2017 16:49:02 Chrom Revision: 2.2 18-Apr-2017 07:43:58

TestAmerica Buffalo

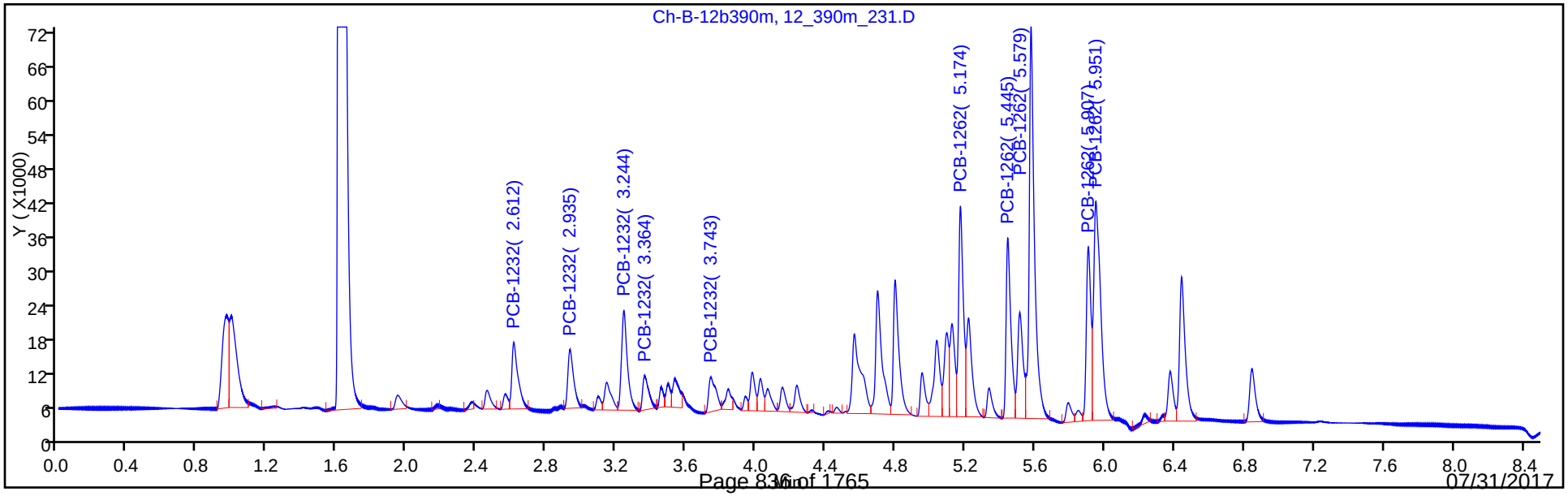
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Injection Date:	11-May-2017 21:08:50	Instrument ID:	HP5890-12	Operator ID:	BufTCHROM
Lims ID:	IC 2			Worklist Smp#:	34
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	5890-12 PCB IS	Limit Group:	GC - 8082A PCB IS ICAL		

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



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



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170511-62436.b\12_390m_232.D
Lims ID: IC 1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 11-May-2017 21:24:09 ALS Bottle#: 0 Worklist Smp#: 35
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP5890-12
Sublist: chrom-5890-12 PCB IS*sub3

Method: \\ChromNA\Buffalo\ChromData\HP5890-12\20170511-62436.b\5890-12 PCB IS.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 12-May-2017 16:49:05 Calib Date: 11-May-2017 21:24:09
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170511-62436.b\12_390m_232.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK011

First Level Reviewer: owenj Date: 12-May-2017 16:48:00

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.318	1.318	0.000	1314753	0.5000	0.5000	
2	1.615	1.615	0.000	1157801	0.5000	0.5000	
						RPD = 0.00	
7 PCB-1232							M
1	2.122	2.122	0.000	2562	0.0200	0.0190	M
1	2.381	2.381	0.000	1893	0.0200	0.0196	M
1	2.503	2.503	0.000	897	0.0200	0.0222	M
1	2.678	2.678	0.000	2507	0.0200	0.0200	M
1	2.765	2.765	0.000	1504	0.0200	0.0204	M
		Average of Peak Amounts =				0.0202	
2	2.615	2.615	0.000	1228	0.0200	0.0196	M
2	2.937	2.937	0.000	1341	0.0200	0.0203	M
2	3.247	3.247	0.000	2393	0.0200	0.0204	M
2	3.364	3.364	0.000	830	0.0200	0.0219	M
2	3.745	3.745	0.000	1029	0.0200	0.0209	M
		Average of Peak Amounts =				0.0206	
						RPD = 1.88	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
13 PCB-1262							
1	4.526	4.526	0.000	3384	0.0200	0.0183	
1	4.712	4.712	0.000	1604	0.0200	0.0194	
1	5.146	5.146	0.000	1939	0.0200	0.0197	
1	5.203	5.203	0.000	2684	0.0200	0.0189	
1	5.243	5.243	0.000	3760	0.0200	0.0200	
		Average of Peak Amounts =				0.0193	
2	5.179	5.179	0.000	2756	0.0200	0.0187	
2	5.447	5.447	0.000	2129	0.0200	0.0192	
2	5.584	5.584	0.000	4469	0.0200	0.0194	
2	5.911	5.911	0.000	1744	0.0200	0.0188	
2	5.954	5.954	0.000	2041	0.0200	0.0195	
		Average of Peak Amounts =				0.0191	
						RPD = 0.85	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

32-62w/IS@.02_00005 Amount Added: 1.00 Units: mL

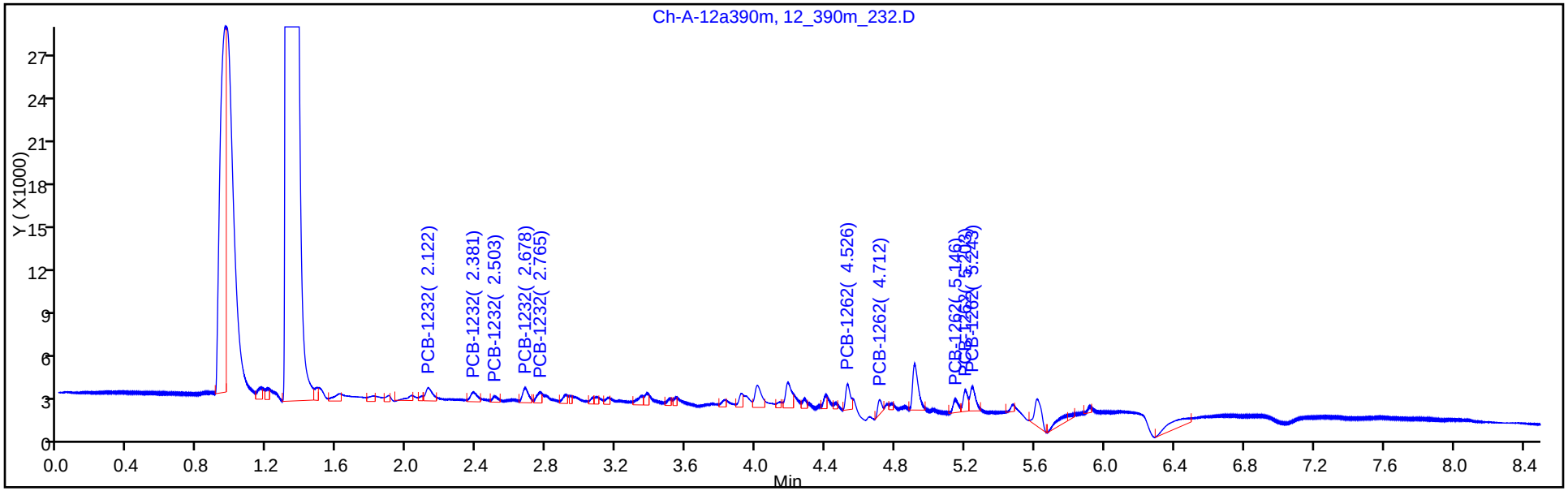
Report Date: 12-May-2017 16:49:05 Chrom Revision: 2.2 18-Apr-2017 07:43:58

TestAmerica Buffalo

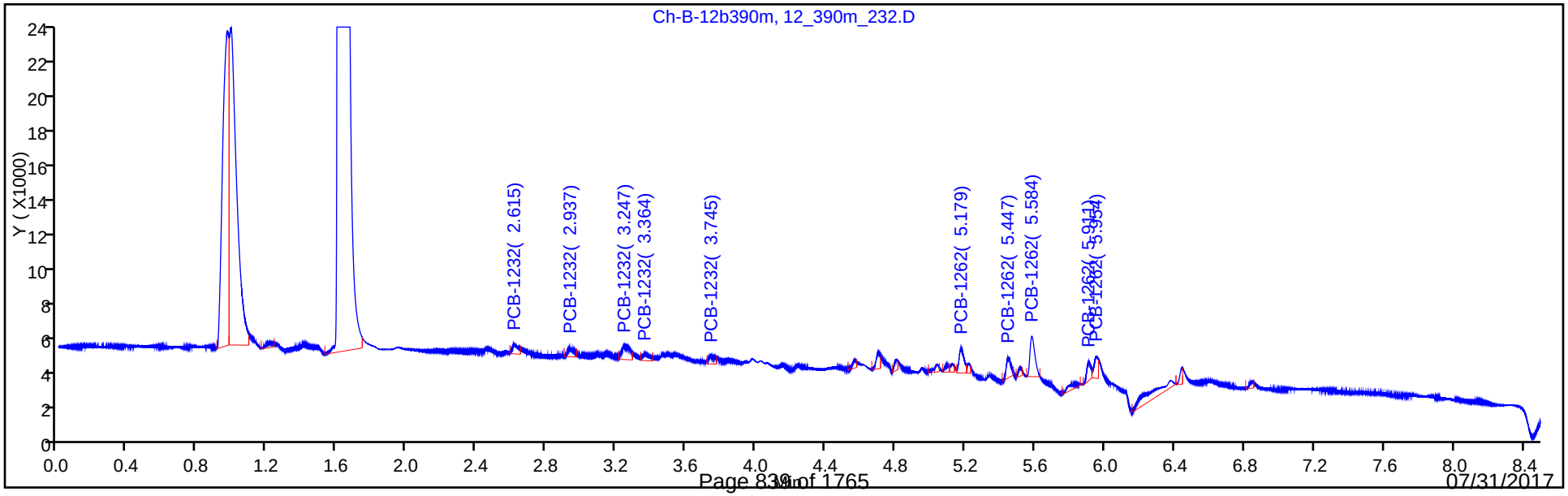
Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170511-62436.b\12_390m_232.D

Injection Date:	11-May-2017 21:24:09	Instrument ID:	HP5890-12	Operator ID:	BufTCHROM
Lims ID:	IC 1			Worklist Smp#:	35
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	5890-12 PCB IS	Limit Group:	GC - 8082A PCB IS ICAL		

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



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



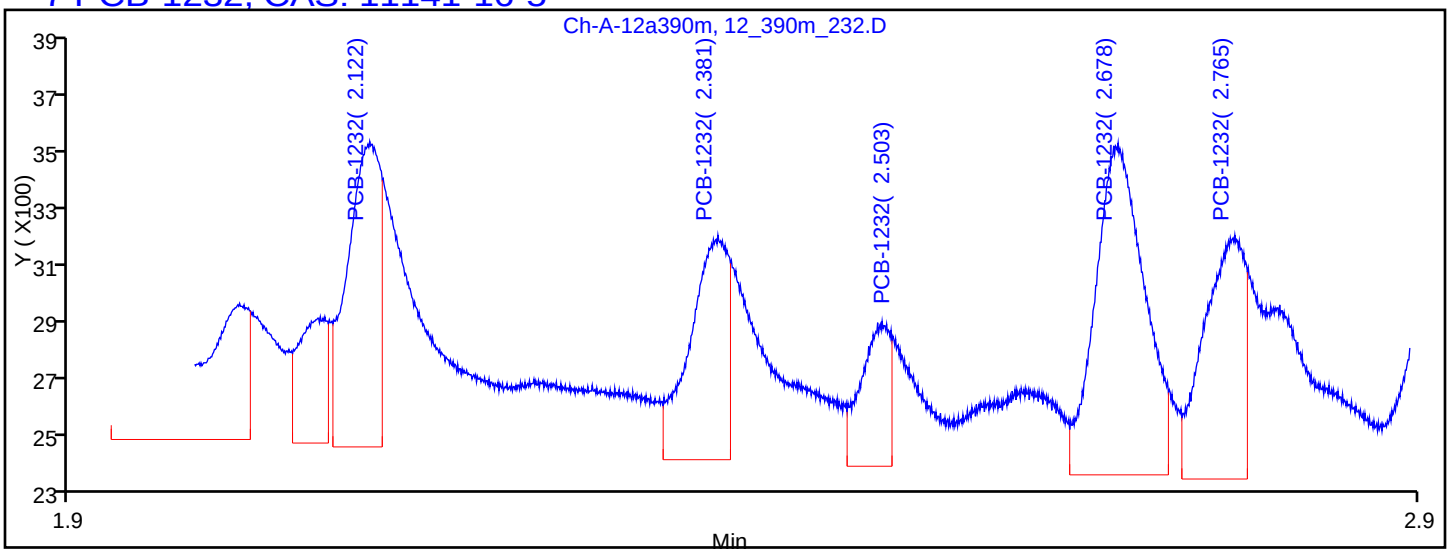
Report Date: 12-May-2017 16:49:05 Chrom Revision: 2.2 18-Apr-2017 07:43:58

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170511-62436.b\12_390m_232.D

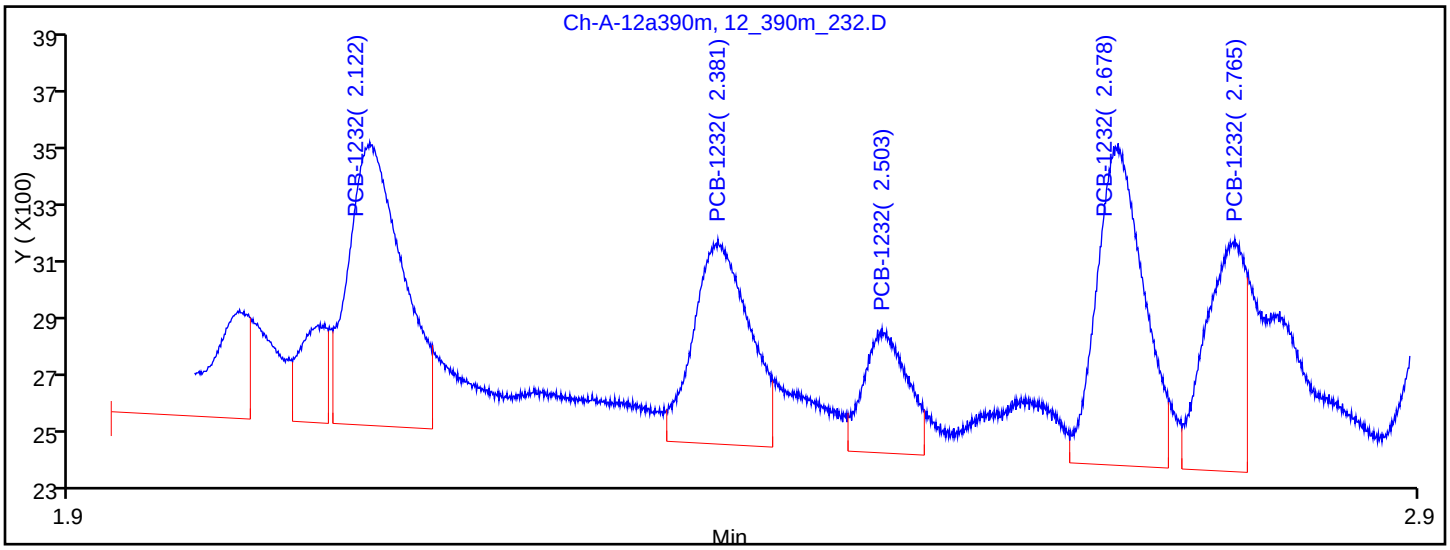
Injection Date:	11-May-2017 21:24:09	Instrument ID:	HP5890-12		
Lims ID:	IC 1				
Client ID:					
Operator ID:	BufTCHROM	ALS Bottle#:	0	Worklist Smp#:	35
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	5890-12 PCB IS	Limit Group:	GC - 8082A PCB IS ICAL		
Column:		Detector	Ch-A-7A136		

7 PCB-1232, CAS: 11141-16-5



Processing Integration Results

2.122	Response = 1719
2.381	Response = 1469
2.503	Response = 719
2.678	Response = 2822
2.765	Response = 1704



Manual Integration Results

2.122	Response = 2562	M
2.381	Response = 1893	M
2.503	Response = 897	M
2.678	Response = 2507	M
2.765	Response = 1504	M

Reviewer: owenj, 12-May-2017 16:45:54

Audit Action: Assigned New Baseline Audit Reason: Split Peak

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

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1 Analy Batch No.: 356902

SDG No.:

Instrument ID: HP5890-12 GC Column: ZB-35 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/11/2017 20:53 Calibration End Date: 05/11/2017 21:24 Calibration ID: 30534

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-356902/35	12_390m_232.D
Level 2	IC 480-356902/34	12_390m_231.D
Level 3	IC 480-356902/33	12_390m_230.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3				B	M1	M2								
PCB-1232 Peak 1	0.0265	0.0263	0.0254			Lin1	0	0.0256							1.0000		0.9900
PCB-1232 Peak 2	0.0290	0.0219	0.0223			Lin1	0.0001	0.0221							1.0000		0.9900
PCB-1232 Peak 3	0.0517	0.0373	0.0383			Lin1	0.0003	0.0379							1.0000		0.9900
PCB-1232 Peak 4	0.0179	0.0133	0.0156			Lin1	0	0.0151							0.9960		0.9900
PCB-1232 Peak 5	0.0222	0.0161	0.0172			Lin1	0.0001	0.0170							0.9990		0.9900
PCB-1262 Peak 1	0.0595	0.0639	0.0574			Lin1	0.0001	0.0586							0.9980		0.9900
PCB-1262 Peak 2	0.0460	0.0554	0.0522			Lin1	0	0.0529							0.9990		0.9900
PCB-1262 Peak 3	0.0965	0.1325	0.1265			Lin1	-0.001	0.1281							1.0000		0.9900
PCB-1262 Peak 4	0.0377	0.0506	0.0462			Lin1	0	0.0472							0.9980		0.9900
PCB-1262 Peak 5	0.0441	0.0985	0.0960			Lin1	-0.001	0.0973							1.0000		0.9900

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

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

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1 Analy Batch No.: 356902

SDG No.:

Instrument ID: HP5890-12 GC Column: ZB-35 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/11/2017 20:53 Calibration End Date: 05/11/2017 21:24 Calibration ID: 30534

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-356902/35	12_390m_232.D
Level 2	IC 480-356902/34	12_390m_231.D
Level 3	IC 480-356902/33	12_390m_230.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1	LVL 2	LVL 3			LVL 1	LVL 2	LVL 3		
PCB-1232 Peak 1	BNB	Lin1	1228	29240	120208			0.0200	0.500	2.00		
PCB-1232 Peak 2	BNB	Lin1	1341	24389	105453			0.0200	0.500	2.00		
PCB-1232 Peak 3	BNB	Lin1	2393	41481	181184			0.0200	0.500	2.00		
PCB-1232 Peak 4	BNB	Lin1	830	14768	73808			0.0200	0.500	2.00		
PCB-1232 Peak 5	BNB	Lin1	1029	17895	81592			0.0200	0.500	2.00		
PCB-1262 Peak 1	BNB	Lin1	2756	70972	271510			0.0200	0.500	2.00		
PCB-1262 Peak 2	BNB	Lin1	2129	61615	247106			0.0200	0.500	2.00		
PCB-1262 Peak 3	BNB	Lin1	4469	147211	598558			0.0200	0.500	2.00		
PCB-1262 Peak 4	BNB	Lin1	1744	56250	218572			0.0200	0.500	2.00		
PCB-1262 Peak 5	BNB	Lin1	2041	109421	454044			0.0200	0.500	2.00		

Curve Type Legend:
Lin1 = Linear 1/conc ISTD

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170511-62436.b\12_390m_230.D
Lims ID: IC 3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 11-May-2017 20:53:28 ALS Bottle#: 0 Worklist Smp#: 33
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP5890-12
Sublist: chrom-5890-12 PCB IS*sub3

Method: \\ChromNA\Buffalo\ChromData\HP5890-12\20170511-62436.b\5890-12 PCB IS.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 12-May-2017 16:48:59 Calib Date: 11-May-2017 21:24:09
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170511-62436.b\12_390m_232.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK011

First Level Reviewer: owenj Date: 12-May-2017 16:44:46

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.318	1.319	-0.001	1343483	0.5000	0.5000	
2	1.615	1.616	-0.001	1182649	0.5000	0.5000	
						RPD = 0.00	
7 PCB-1232							
1	2.117	2.122	-0.005	170718	2.00	1.97	
1	2.383	2.381	0.002	159128	2.00	1.99	
1	2.500	2.503	-0.003	77043	2.00	2.07	
1	2.673	2.678	-0.005	242066	2.00	2.00	
1	2.745	2.765	-0.020	100143	2.00	2.01	
		Average of Peak Amounts =				2.01	
2	2.609	2.615	-0.006	120208	2.00	1.99	
2	2.931	2.937	-0.006	105453	2.00	2.01	
2	3.241	3.247	-0.006	181184	2.00	2.01	
2	3.359	3.364	-0.005	73808	2.00	2.06	
2	3.739	3.745	-0.006	81592	2.00	2.03	
		Average of Peak Amounts =				2.02	
						RPD = 0.61	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
13 PCB-1262							
1	4.521	4.526	-0.005	319527	2.00	1.95	
1	4.705	4.712	-0.007	234993	2.00	1.98	
1	5.141	5.146	-0.005	204942	2.00	1.99	
1	5.198	5.203	-0.005	254650	2.00	1.97	
1	5.238	5.243	-0.005	435290	2.00	2.00	
		Average of Peak Amounts =				1.98	
2	5.171	5.179	-0.008	271510	2.00	1.96	
2	5.442	5.447	-0.005	247106	2.00	1.98	
2	5.577	5.584	-0.007	598558	2.00	1.98	
2	5.904	5.911	-0.007	218572	2.00	1.96	a
2	5.947	5.954	-0.007	454044	2.00	1.98	a
		Average of Peak Amounts =				1.97	
						RPD = 0.26	

Reagents:

32-62w/IS@2.0_00005 Amount Added: 1.00 Units: mL

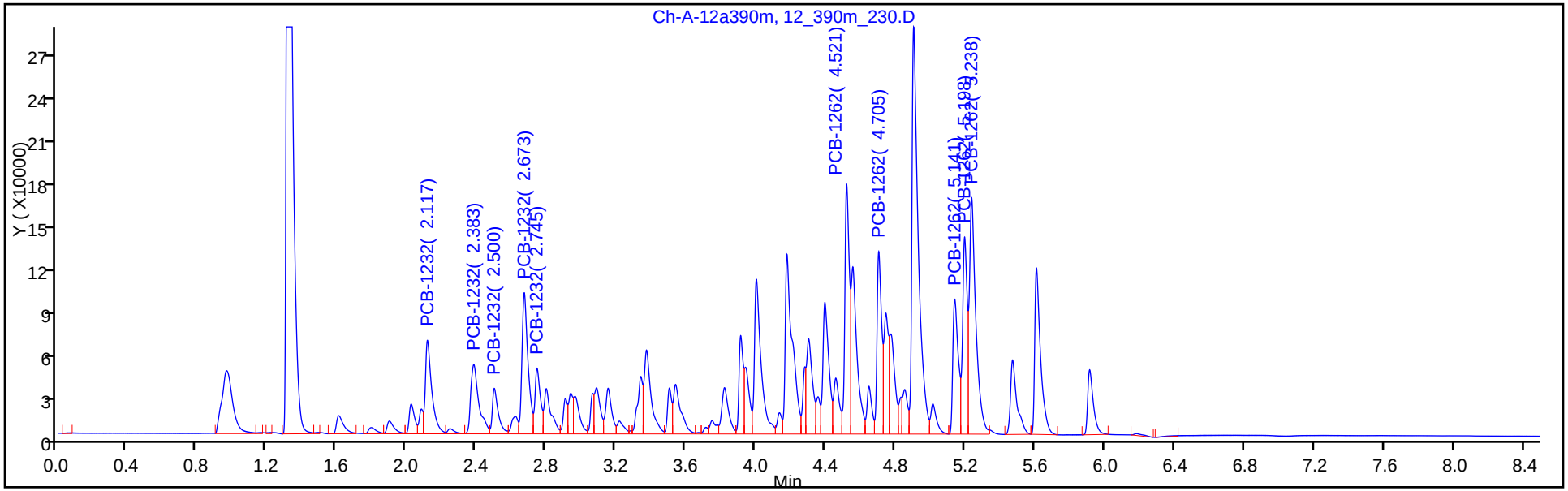
Report Date: 12-May-2017 16:48:59 Chrom Revision: 2.2 18-Apr-2017 07:43:58

TestAmerica Buffalo

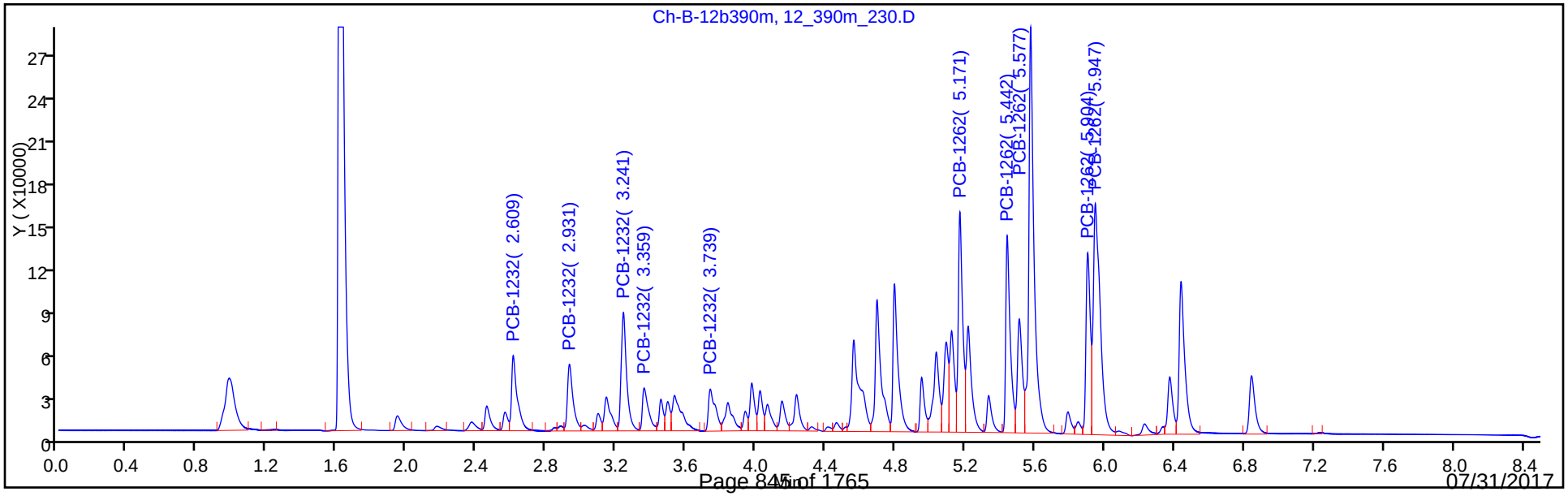
Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170511-62436.b\12_390m_230.D

Injection Date:	11-May-2017 20:53:28	Instrument ID:	HP5890-12	Operator ID:	BufTCHROM
Lims ID:	IC 3			Worklist Smp#:	33
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	5890-12 PCB IS	Limit Group:	GC - 8082A PCB IS ICAL		

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



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



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170511-62436.b\12_390m_231.D
Lims ID: IC 2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 11-May-2017 21:08:50 ALS Bottle#: 0 Worklist Smp#: 34
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP5890-12
Sublist: chrom-5890-12 PCB IS*sub3

Method: \\ChromNA\Buffalo\ChromData\HP5890-12\20170511-62436.b\5890-12 PCB IS.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 12-May-2017 16:49:02 Calib Date: 11-May-2017 21:24:09
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170511-62436.b\12_390m_232.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK011

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.318	1.319	-0.001	1263529	0.5000	0.5000	
2	1.615	1.616	-0.001	1111416	0.5000	0.5000	
						RPD = 0.00	
7 PCB-1232							
1	2.119	2.122	-0.003	44000	0.5000	0.5315	
1	2.385	2.381	0.004	38995	0.5000	0.5141	
1	2.502	2.503	-0.001	14962	0.5000	0.4259	
1	2.675	2.678	-0.003	57106	0.5000	0.5006	
1	2.748	2.765	-0.017	23173	0.5000	0.4871	
		Average of Peak Amounts =				0.4919	
2	2.612	2.615	-0.003	29240	0.5000	0.5134	
2	2.935	2.937	-0.002	24389	0.5000	0.4901	
2	3.244	3.247	-0.003	41481	0.5000	0.4855	
2	3.364	3.364	0.000	14768	0.5000	0.4373	
2	3.743	3.745	-0.002	17895	0.5000	0.4696	
		Average of Peak Amounts =				0.4792	
						RPD = 2.61	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
13 PCB-1262							
1	4.523	4.526	-0.003	86037	0.5000	0.5553	
1	4.707	4.712	-0.005	57612	0.5000	0.5204	
1	5.143	5.146	-0.003	49208	0.5000	0.5088	
1	5.200	5.203	-0.003	65363	0.5000	0.5349	
1	5.239	5.243	-0.004	101909	0.5000	0.4997	
		Average of Peak Amounts =				0.5238	
2	5.174	5.179	-0.005	70972	0.5000	0.5434	
2	5.445	5.447	-0.002	61615	0.5000	0.5255	
2	5.579	5.584	-0.005	147211	0.5000	0.5212	
2	5.907	5.911	-0.004	56250	0.5000	0.5393	
2	5.951	5.954	-0.003	109421	0.5000	0.5165	
		Average of Peak Amounts =				0.5292	
						RPD = 1.02	

Reagents:

32-62w/IS@0.5_00008 Amount Added: 1.00 Units: mL

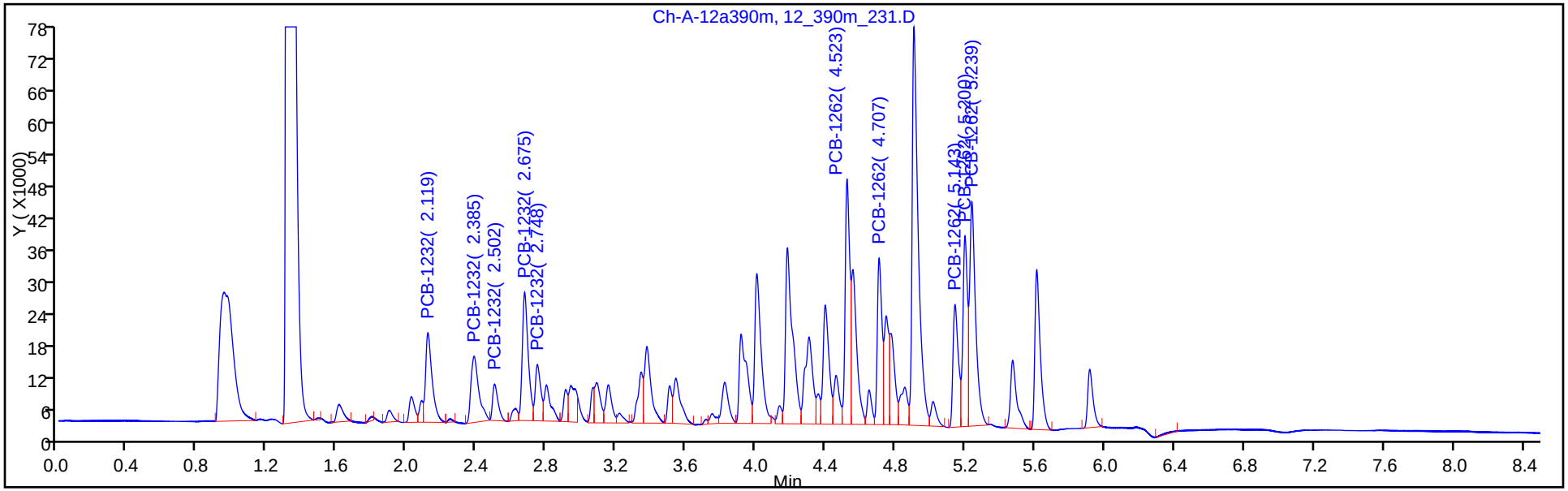
Report Date: 12-May-2017 16:49:03 Chrom Revision: 2.2 18-Apr-2017 07:43:58

TestAmerica Buffalo

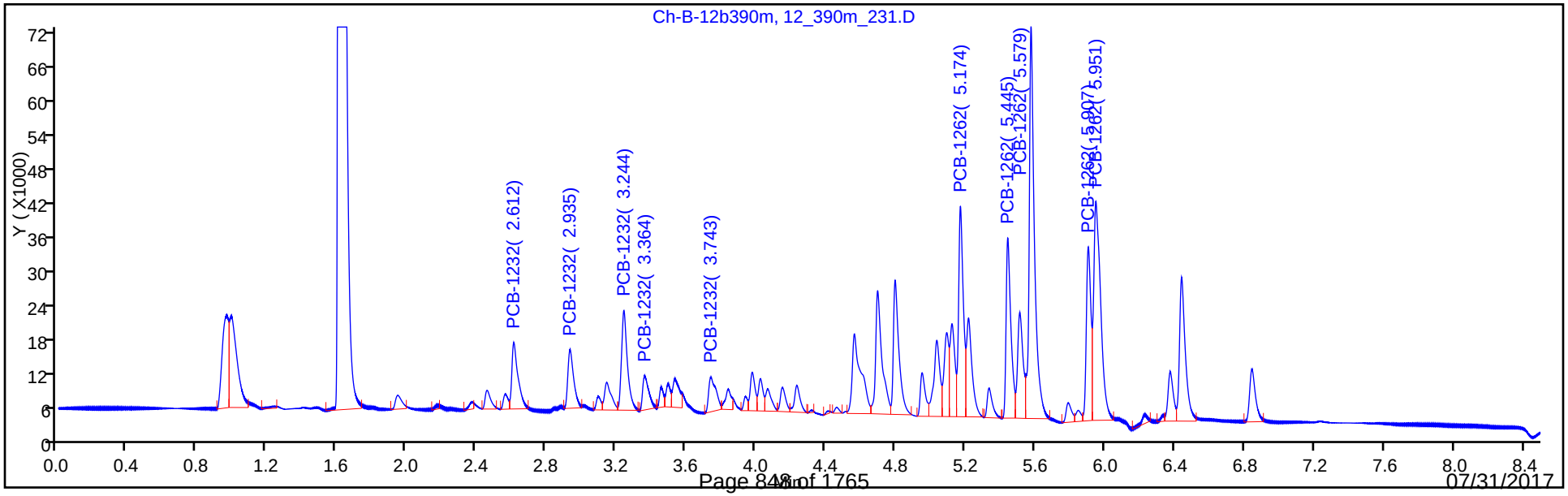
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Injection Date:	11-May-2017 21:08:50	Instrument ID:	HP5890-12	Operator ID:	BufTCHROM
Lims ID:	IC 2			Worklist Smp#:	34
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	5890-12 PCB IS	Limit Group:	GC - 8082A PCB IS ICAL		

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



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



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170511-62436.b\12_390m_232.D
Lims ID: IC 1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 11-May-2017 21:24:09 ALS Bottle#: 0 Worklist Smp#: 35
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP5890-12
Sublist: chrom-5890-12 PCB IS*sub3

Method: \\ChromNA\Buffalo\ChromData\HP5890-12\20170511-62436.b\5890-12 PCB IS.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 12-May-2017 16:49:05 Calib Date: 11-May-2017 21:24:09
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170511-62436.b\12_390m_232.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK011

First Level Reviewer: owenj Date: 12-May-2017 16:48:00

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.318	1.318	0.000	1314753	0.5000	0.5000	
2	1.615	1.615	0.000	1157801	0.5000	0.5000	
						RPD = 0.00	
7 PCB-1232							M
1	2.122	2.122	0.000	2562	0.0200	0.0190	M
1	2.381	2.381	0.000	1893	0.0200	0.0196	M
1	2.503	2.503	0.000	897	0.0200	0.0222	M
1	2.678	2.678	0.000	2507	0.0200	0.0200	M
1	2.765	2.765	0.000	1504	0.0200	0.0204	M
		Average of Peak Amounts =				0.0202	
2	2.615	2.615	0.000	1228	0.0200	0.0196	M
2	2.937	2.937	0.000	1341	0.0200	0.0203	M
2	3.247	3.247	0.000	2393	0.0200	0.0204	M
2	3.364	3.364	0.000	830	0.0200	0.0219	M
2	3.745	3.745	0.000	1029	0.0200	0.0209	M
		Average of Peak Amounts =				0.0206	
						RPD = 1.88	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
13 PCB-1262							
1	4.526	4.526	0.000	3384	0.0200	0.0183	
1	4.712	4.712	0.000	1604	0.0200	0.0194	
1	5.146	5.146	0.000	1939	0.0200	0.0197	
1	5.203	5.203	0.000	2684	0.0200	0.0189	
1	5.243	5.243	0.000	3760	0.0200	0.0200	
		Average of Peak Amounts =				0.0193	
2	5.179	5.179	0.000	2756	0.0200	0.0187	
2	5.447	5.447	0.000	2129	0.0200	0.0192	
2	5.584	5.584	0.000	4469	0.0200	0.0194	
2	5.911	5.911	0.000	1744	0.0200	0.0188	
2	5.954	5.954	0.000	2041	0.0200	0.0195	
		Average of Peak Amounts =				0.0191	
						RPD = 0.85	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

32-62w/IS@.02_00005 Amount Added: 1.00 Units: mL

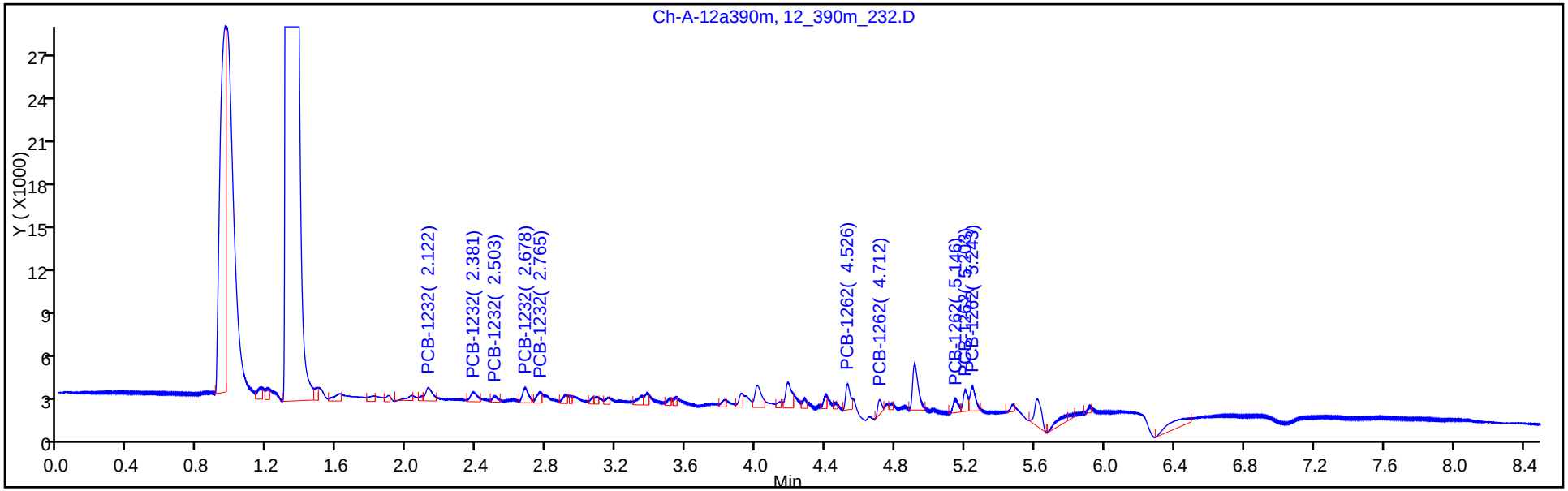
Report Date: 12-May-2017 16:49:05 Chrom Revision: 2.2 18-Apr-2017 07:43:58

TestAmerica Buffalo

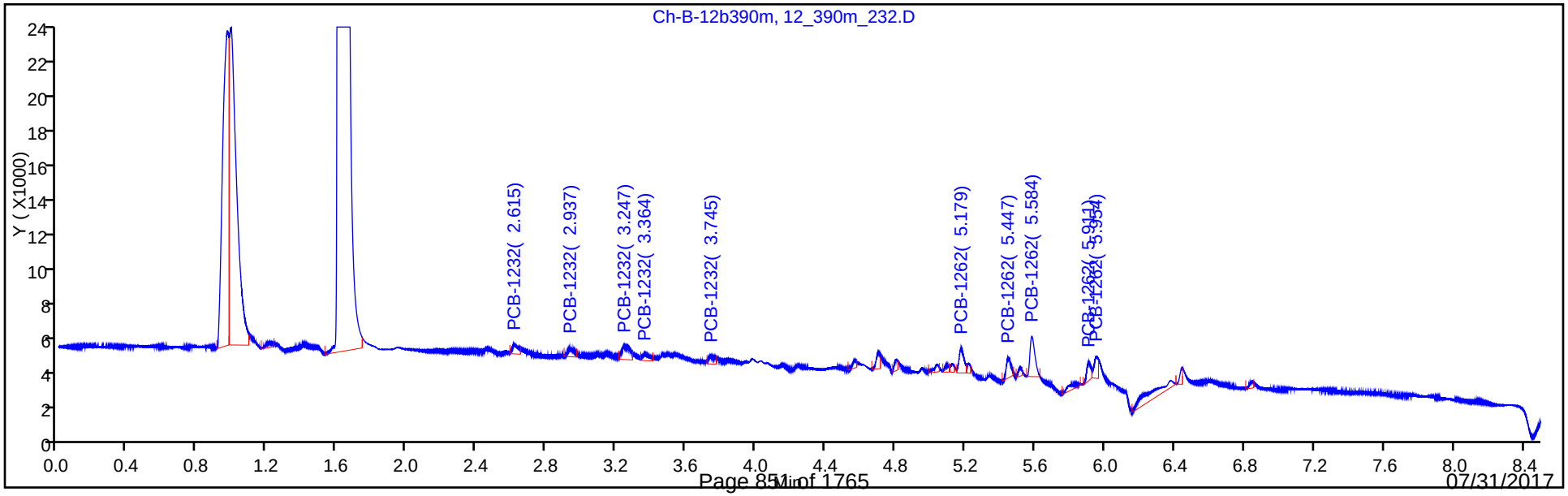
Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170511-62436.b\12_390m_232.D

Injection Date:	11-May-2017 21:24:09	Instrument ID:	HP5890-12	Operator ID:	BufTCHROM
Lims ID:	IC 1			Worklist Smp#:	35
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	5890-12 PCB IS	Limit Group:	GC - 8082A PCB IS ICAL		

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



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



Report Date: 12-May-2017 16:49:05 Chrom Revision: 2.2 18-Apr-2017 07:43:58

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170511-62436.b\12_390m_232.D

Injection Date: 11-May-2017 21:24:09 Instrument ID: HP5890-12

Lims ID: IC 1

Client ID:

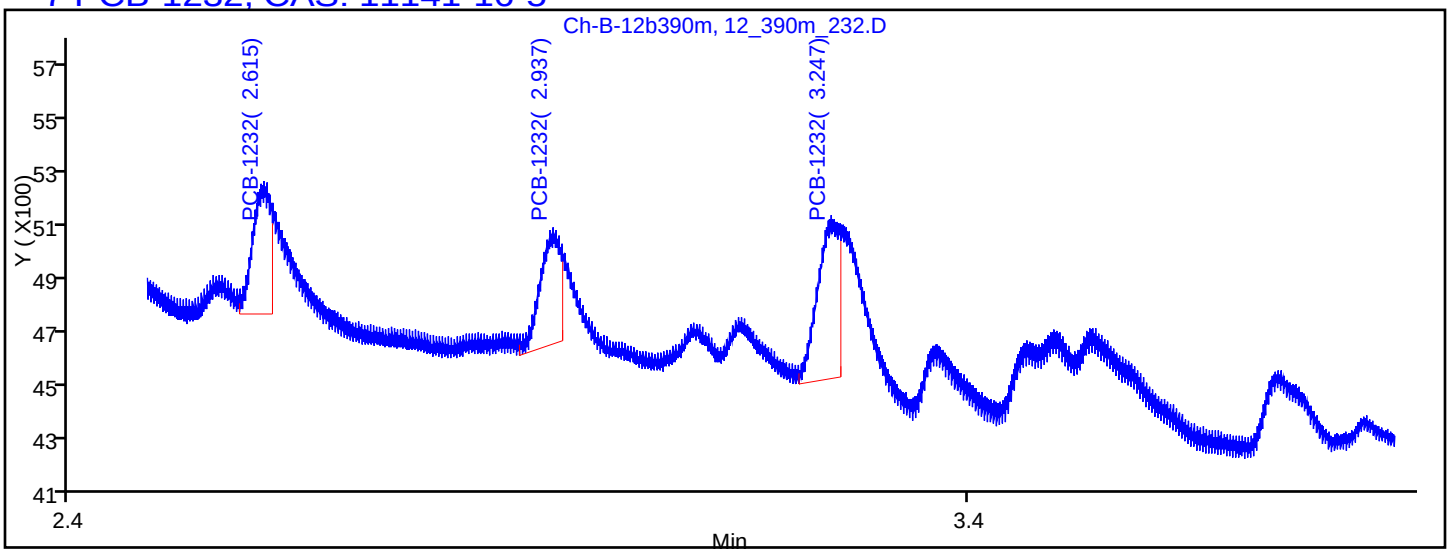
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 35

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 5890-12 PCB IS Limit Group: GC - 8082A PCB IS ICAL

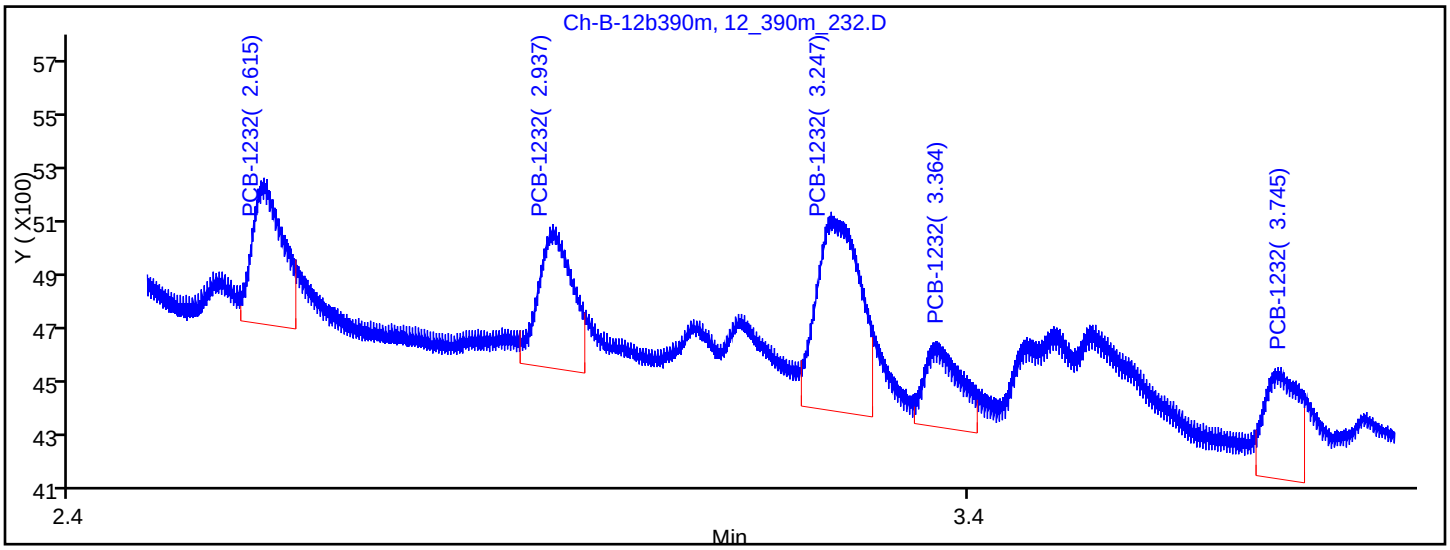
Column: Detector Ch-B-7b136

7 PCB-1232, CAS: 11141-16-5



Processing Integration Results

2.615	Response = 644
2.937	Response = 649
3.247	Response = 968
3.364	Response = 0
3.745	Response = 0



Manual Integration Results

2.615	Response = 1228	M
2.937	Response = 1341	M
3.247	Response = 2393	M
3.364	Response = 830	M
3.745	Response = 1029	M

Reviewer: owenj, 12-May-2017 16:45:47

Audit Action: Assigned New Baseline Audit Reason: Split Peak

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

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1 Analy Batch No.: 357246

SDG No.:

Instrument ID: HP5890-12 GC Column: ZB-5 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/13/2017 11:27 Calibration End Date: 05/13/2017 12:34 Calibration ID: 30549

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-357246/6	12_390m_253.D
Level 2	IC 480-357246/5	12_390m_252.D
Level 3	IC 480-357246/4	12_390m_251.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3				B	M1	M2								
PCB-1242 Peak 1	0.0963	0.0848	0.0760			Lin1	0.0005	0.0774							0.9980		0.9900
PCB-1242 Peak 2	0.0482	0.0346	0.0309			Lin1	0.0004	0.0313							0.9980		0.9900
PCB-1242 Peak 3	0.0485	0.0304	0.0286			Lin1	0.0004	0.0286							1.0000		0.9900
PCB-1242 Peak 4	0.0662	0.0526	0.0464			Lin1	0.0004	0.0473							0.9980		0.9900
PCB-1242 Peak 5	0.0246	0.0221	0.0207			Lin1	0.0001	0.0209							0.9990		0.9900
PCB-1268 Peak 1	0.1631	0.1234	0.0992			Lin1	0.0015	0.1028							0.9920		0.9900
PCB-1268 Peak 2	0.2473	0.2194	0.1994			Lin1	0.0011	0.2025							0.9990		0.9900
PCB-1268 Peak 3	0.1681	0.1300	0.1103			Lin1	0.0013	0.1131							0.9960		0.9900
PCB-1268 Peak 4	0.0695	0.0585	0.0554			Lin1	0.0003	0.0558							1.0000		0.9900
PCB-1268 Peak 5	0.5121	0.4283	0.3626			Lin1	0.0035	0.3726							0.9950		0.9900

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

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

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1 Analy Batch No.: 357246

SDG No.:

Instrument ID: HP5890-12 GC Column: ZB-5 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/13/2017 11:27 Calibration End Date: 05/13/2017 12:34 Calibration ID: 30549

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-357246/6	12_390m_253.D
Level 2	IC 480-357246/5	12_390m_252.D
Level 3	IC 480-357246/4	12_390m_251.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1	LVL 2	LVL 3			LVL 1	LVL 2	LVL 3		
PCB-1242 Peak 1	BNB	Lin1	4897	103486	369463			0.0200	0.500	2.00		
PCB-1242 Peak 2	BNB	Lin1	2454	42207	150036			0.0200	0.500	2.00		
PCB-1242 Peak 3	BNB	Lin1	2465	37091	138818			0.0200	0.500	2.00		
PCB-1242 Peak 4	BNB	Lin1	3369	64171	225700			0.0200	0.500	2.00		
PCB-1242 Peak 5	BNB	Lin1	1254	27016	100501			0.0200	0.500	2.00		
PCB-1268 Peak 1	BNB	Lin1	8298	150697	482272			0.0200	0.500	2.00		
PCB-1268 Peak 2	BNB	Lin1	12580	267924	969217			0.0200	0.500	2.00		
PCB-1268 Peak 3	BNB	Lin1	8550	158677	536077			0.0200	0.500	2.00		
PCB-1268 Peak 4	BNB	Lin1	3536	71488	269307			0.0200	0.500	2.00		
PCB-1268 Peak 5	BNB	Lin1	26053	522912	1762050			0.0200	0.500	2.00		

Curve Type Legend:
Lin1 = Linear 1/conc ISTD

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170513-62487.b\12_390m_251.D
Lims ID: IC 3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 13-May-2017 11:27:32 ALS Bottle#: 0 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP5890-12
Sublist: chrom-5890-12 PCB IS*sub4

Method: \\ChromNA\Buffalo\ChromData\HP5890-12\20170513-62487.b\5890-12 PCB IS.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 15-May-2017 13:44:07 Calib Date: 13-May-2017 13:35:27
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170513-62487.b\12_390m_257.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK026

First Level Reviewer: owenj Date: 15-May-2017 13:14:01

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.319	1.319	0.000	1214930	0.5000	0.5000	
2	1.615	1.617	-0.002	1088987	0.5000	0.5000	
						RPD = 0.00	
8 PCB-1242							M
1	2.672	2.690	-0.018	369463	2.00	1.96	
1	2.745	2.763	-0.018	150036	2.00	1.96	
1	3.153	3.170	-0.017	138818	2.00	1.98	
1	3.371	3.390	-0.019	225700	2.00	1.96	
1	3.505	3.521	-0.016	100501	2.00	1.98	
		Average of Peak Amounts =				1.97	
2	3.241	3.253	-0.012	293045	2.00	2.00	M
2	3.359	3.369	-0.010	122283	2.00	2.01	M
2	3.534	3.544	-0.010	141804	2.00	1.96	M
2	3.739	3.751	-0.012	144501	2.00	1.97	M
2	3.977	3.987	-0.010	113131	2.00	1.99	M
		Average of Peak Amounts =				1.99	
						RPD = 0.94	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
14 PCB-1268							
1	5.197	5.216	-0.019	482272	2.00	1.92	
1	5.235	5.255	-0.020	969217	2.00	1.96	
1	5.458	5.476	-0.018	536077	2.00	1.94	
1	5.609	5.627	-0.018	269307	2.00	1.98	
1	5.911	5.932	-0.021	1762050	2.00	1.94	
		Average of Peak Amounts =				1.95	
2	5.902	5.919	-0.017	456518	2.00	1.96	
2	5.946	5.961	-0.015	650993	2.00	1.95	
2	6.225	6.240	-0.015	463744	2.00	1.95	
2	6.441	6.457	-0.016	226844	2.00	1.97	
2	6.841	6.859	-0.018	1506102	2.00	1.94	
		Average of Peak Amounts =				1.95	
						RPD = 0.36	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

42-68w/IS@2.0_00005 Amount Added: 1.00 Units: mL

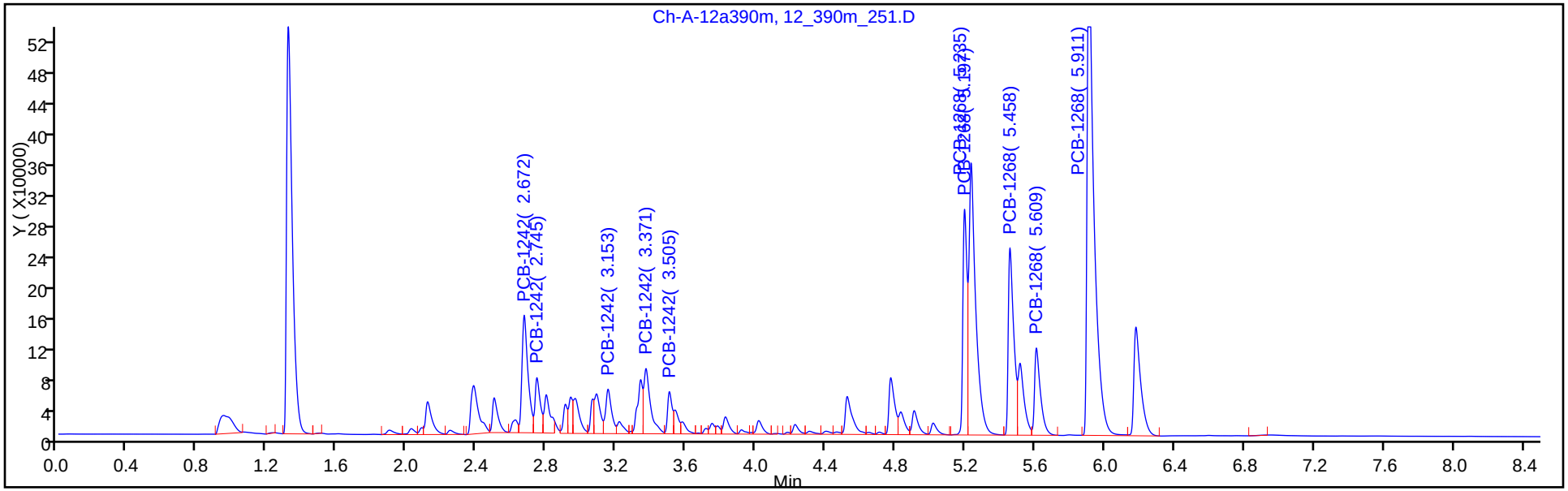
Report Date: 15-May-2017 13:44:07 Chrom Revision: 2.2 18-Apr-2017 07:43:58

TestAmerica Buffalo

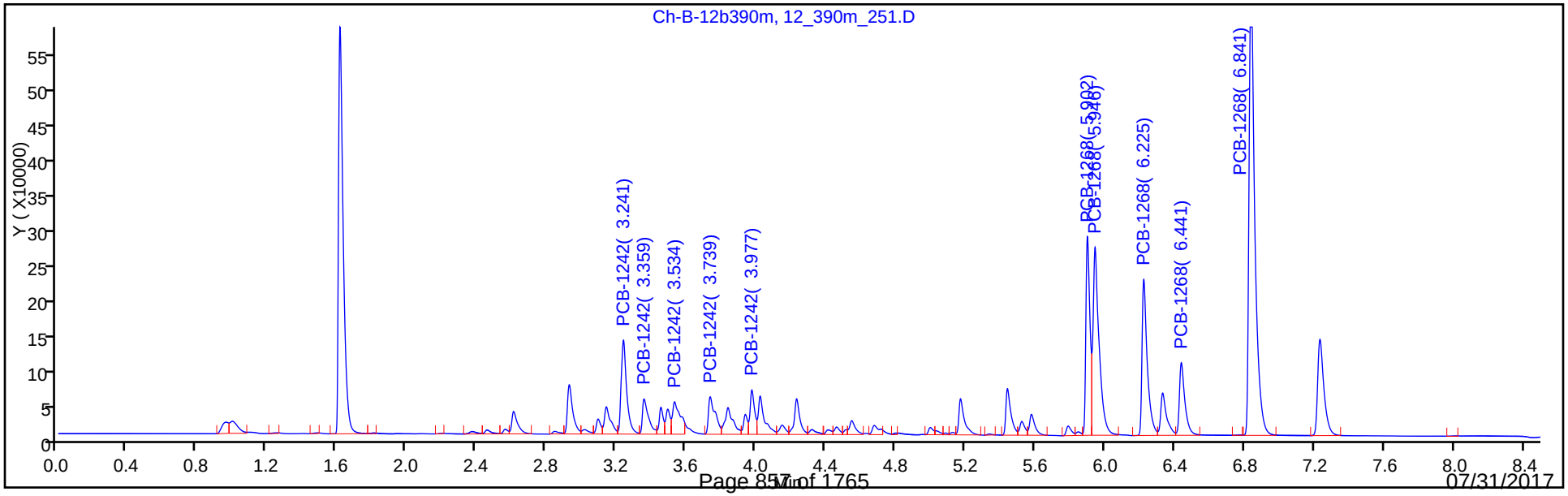
Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170513-62487.b\12_390m_251.D

Injection Date:	13-May-2017 11:27:32	Instrument ID:	HP5890-12	Operator ID:	BufTCHROM
Lims ID:	IC 3			Worklist Smp#:	4
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	5890-12 PCB IS	Limit Group:	GC - 8082A PCB IS ICAL		

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



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



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170513-62487.b\12_390m_252.D
Lims ID: IC 2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 13-May-2017 11:42:54 ALS Bottle#: 0 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP5890-12
Sublist: chrom-5890-12 PCB IS*sub4

Method: \\ChromNA\Buffalo\ChromData\HP5890-12\20170513-62487.b\5890-12 PCB IS.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 15-May-2017 13:44:09 Calib Date: 13-May-2017 13:35:27
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170513-62487.b\12_390m_257.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK026

First Level Reviewer: owenj Date: 15-May-2017 13:14:19

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.319	1.319	0.000	1220981	0.5000	0.5000	
2	1.616	1.617	-0.001	1077513	0.5000	0.5000	
						RPD = 0.00	
8 PCB-1242							M
1	2.675	2.690	-0.015	103486	0.5000	0.5417	
1	2.748	2.763	-0.015	42207	0.5000	0.5402	
1	3.155	3.170	-0.015	37091	0.5000	0.5168	
1	3.373	3.390	-0.017	64171	0.5000	0.5464	
1	3.507	3.521	-0.014	27016	0.5000	0.5252	
		Average of Peak Amounts =				0.5341	
2	3.244	3.253	-0.009	73080	0.5000	0.5008	
2	3.363	3.369	-0.006	29671	0.5000	0.4913	
2	3.537	3.544	-0.007	39423	0.5000	0.5404	M
2	3.743	3.751	-0.008	38454	0.5000	0.5271	
2	3.981	3.987	-0.006	29307	0.5000	0.5149	
		Average of Peak Amounts =				0.5149	
						RPD = 3.65	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
14 PCB-1268							
1	5.200	5.216	-0.016	150697	0.5000	0.5860	
1	5.237	5.255	-0.018	267924	0.5000	0.5364	
1	5.460	5.476	-0.016	158677	0.5000	0.5629	
1	5.612	5.627	-0.015	71488	0.5000	0.5193	
1	5.913	5.932	-0.019	522912	0.5000	0.5652	
		Average of Peak Amounts =				0.5540	
2	5.905	5.919	-0.014	125712	0.5000	0.5410	
2	5.949	5.961	-0.012	181615	0.5000	0.5471	
2	6.229	6.240	-0.011	130605	0.5000	0.5529	
2	6.445	6.457	-0.012	60113	0.5000	0.5303	
2	6.844	6.859	-0.015	437177	0.5000	0.5627	
		Average of Peak Amounts =				0.5468	
						RPD = 1.30	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

42-68w/IS@0.5_00008 Amount Added: 1.00 Units: mL

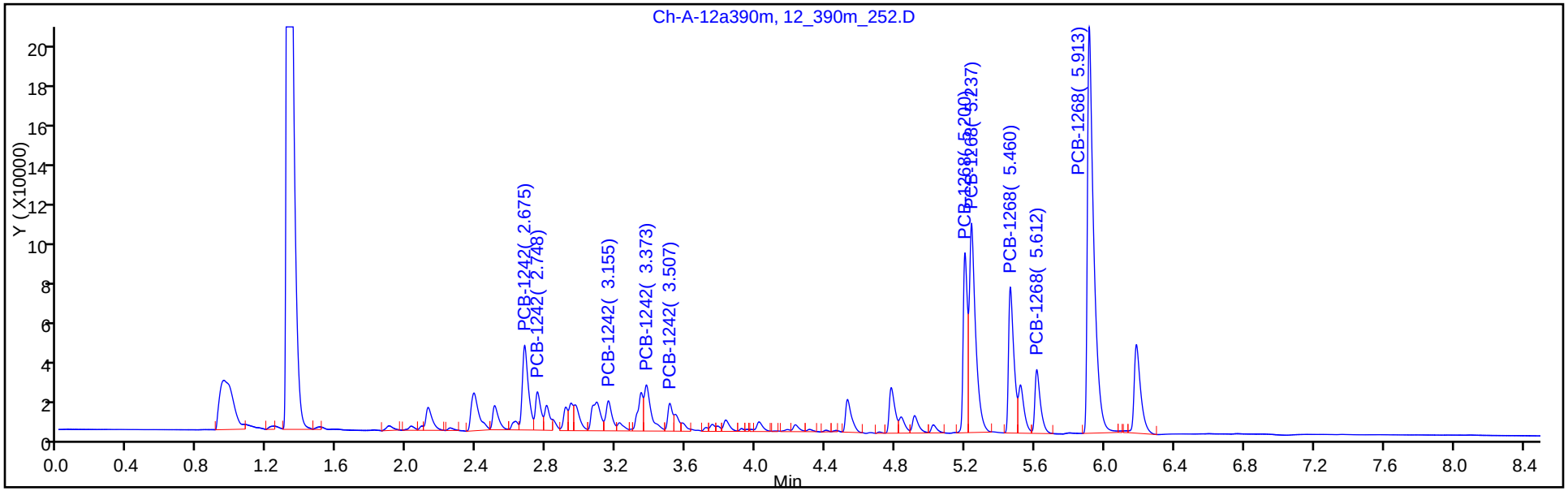
Report Date: 15-May-2017 13:44:10 Chrom Revision: 2.2 18-Apr-2017 07:43:58

TestAmerica Buffalo

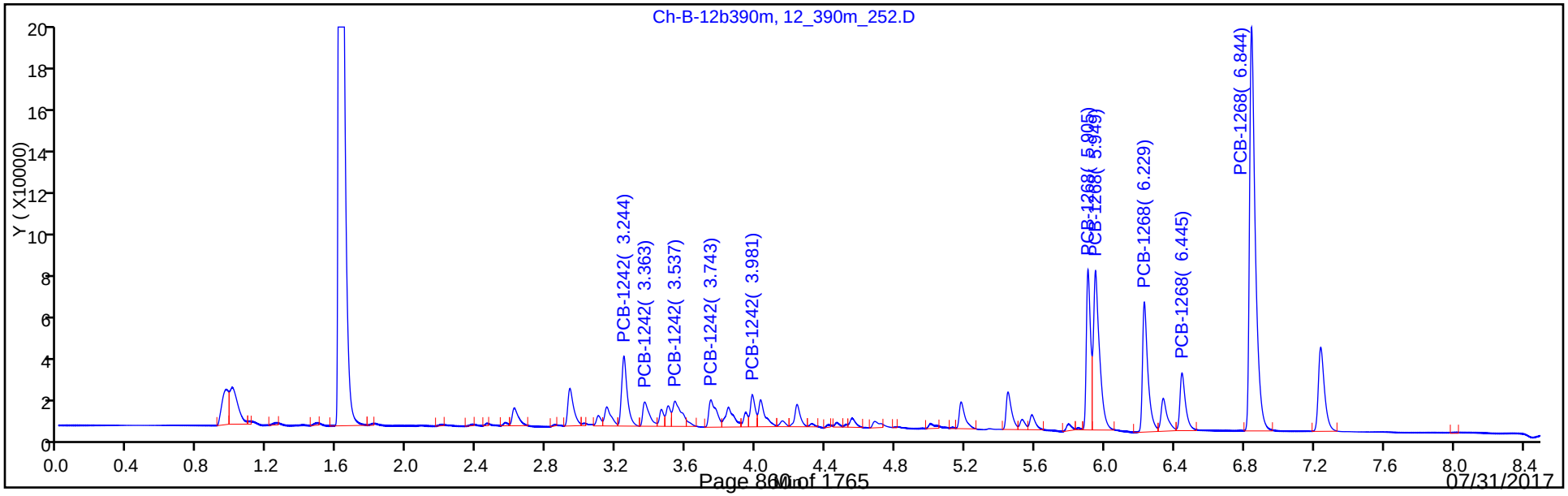
Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170513-62487.b\12_390m_252.D

Injection Date:	13-May-2017 11:42:54	Instrument ID:	HP5890-12	Operator ID:	BufTCHROM
Lims ID:	IC 2			Worklist Smp#:	5
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	5890-12 PCB IS	Limit Group:	GC - 8082A PCB IS ICAL		

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



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



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170513-62487.b\12_390m_253.D
Lims ID: IC 1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 13-May-2017 12:34:01 ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP5890-12
Sublist: chrom-5890-12 PCB IS*sub4

Method: \\ChromNA\Buffalo\ChromData\HP5890-12\20170513-62487.b\5890-12 PCB IS.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 15-May-2017 13:44:12 Calib Date: 13-May-2017 13:35:27
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170513-62487.b\12_390m_257.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK026

First Level Reviewer: owenj Date: 15-May-2017 13:16:03

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.321	1.321	0.000	1271814	0.5000	0.5000	
2	1.618	1.618	0.000	1099341	0.5000	0.5000	
						RPD = 0.00	
8 PCB-1242							M
1	2.690	2.690	0.000	4897	0.0200	0.0187	M
1	2.763	2.763	0.000	2454	0.0200	0.0188	M
1	3.170	3.170	0.000	2465	0.0200	0.0195	M
1	3.390	3.390	0.000	3369	0.0200	0.0186	
1	3.521	3.521	0.000	1254	0.0200	0.0192	
		Average of Peak Amounts =				0.0190	
2	3.253	3.253	0.000	3546	0.0200	0.0200	M
2	3.369	3.369	0.000	1345	0.0200	0.0203	M
2	3.544	3.544	0.000	2425	0.0200	0.0188	M
2	3.751	3.751	0.000	1788	0.0200	0.0192	M
2	3.987	3.987	0.000	1500	0.0200	0.0195	M
		Average of Peak Amounts =				0.0195	
						RPD = 3.01	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
14 PCB-1268							M
1	5.216	5.216	0.000	8298	0.0200	0.0174	M
1	5.255	5.255	0.000	12580	0.0200	0.0189	M
1	5.476	5.476	0.000	8550	0.0200	0.0181	M
1	5.627	5.627	0.000	3536	0.0200	0.0194	M
1	5.932	5.932	0.000	26053	0.0200	0.0180	M
		Average of Peak Amounts =				0.0184	
2	5.919	5.919	0.000	5858	0.0200	0.0188	
2	5.961	5.961	0.000	8035	0.0200	0.0186	
2	6.240	6.240	0.000	5017	0.0200	0.0184	M
2	6.457	6.457	0.000	1812	0.0200	0.0191	M
2	6.859	6.859	0.000	21028	0.0200	0.0181	
		Average of Peak Amounts =				0.0186	
						RPD = 1.17	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

42-68w/IS@.02_00005 Amount Added: 1.00 Units: mL

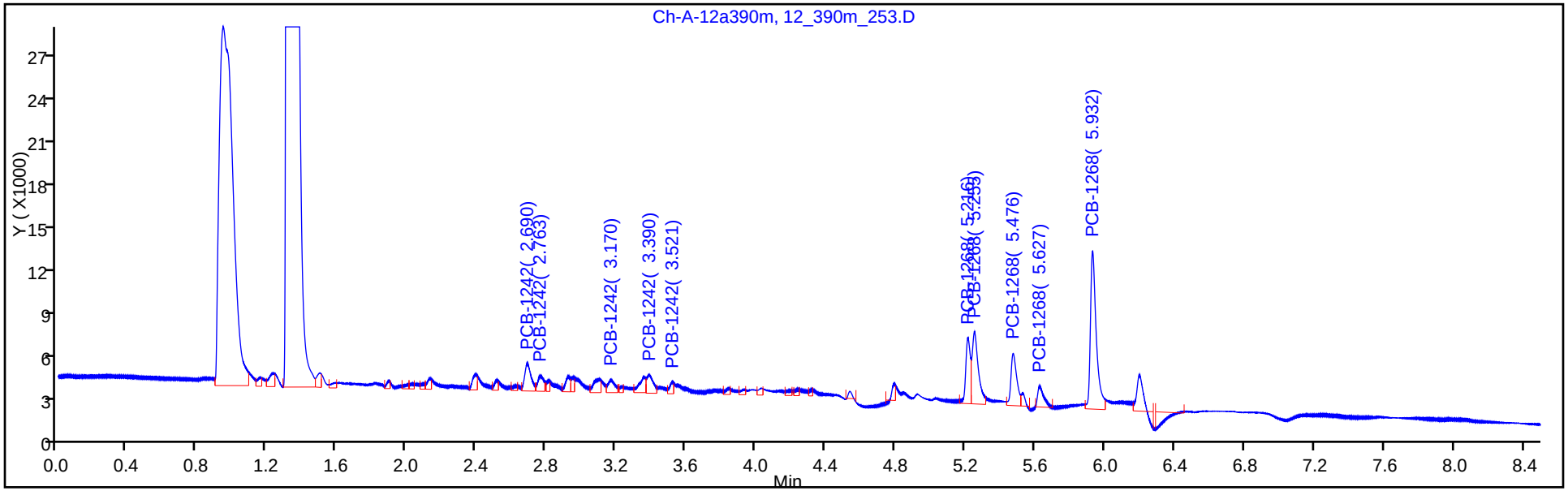
Report Date: 15-May-2017 13:44:12 Chrom Revision: 2.2 18-Apr-2017 07:43:58

TestAmerica Buffalo

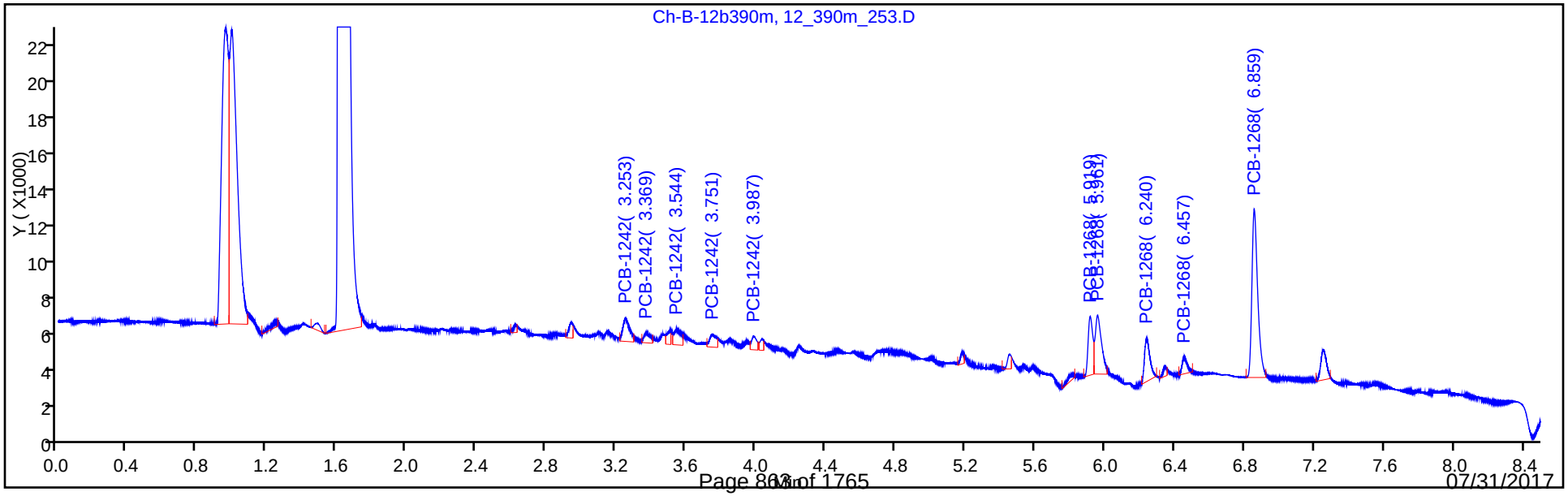
Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170513-62487.b\12_390m_253.D

Injection Date:	13-May-2017 12:34:01	Instrument ID:	HP5890-12	Operator ID:	BufTCHROM
Lims ID:	IC 1			Worklist Smp#:	6
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	5890-12 PCB IS	Limit Group:	GC - 8082A PCB IS ICAL		

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



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



Report Date: 15-May-2017 13:44:12 Chrom Revision: 2.2 18-Apr-2017 07:43:58

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170513-62487.b\12_390m_253.D

Injection Date: 13-May-2017 12:34:01 Instrument ID: HP5890-12

Lims ID: IC 1

Client ID:

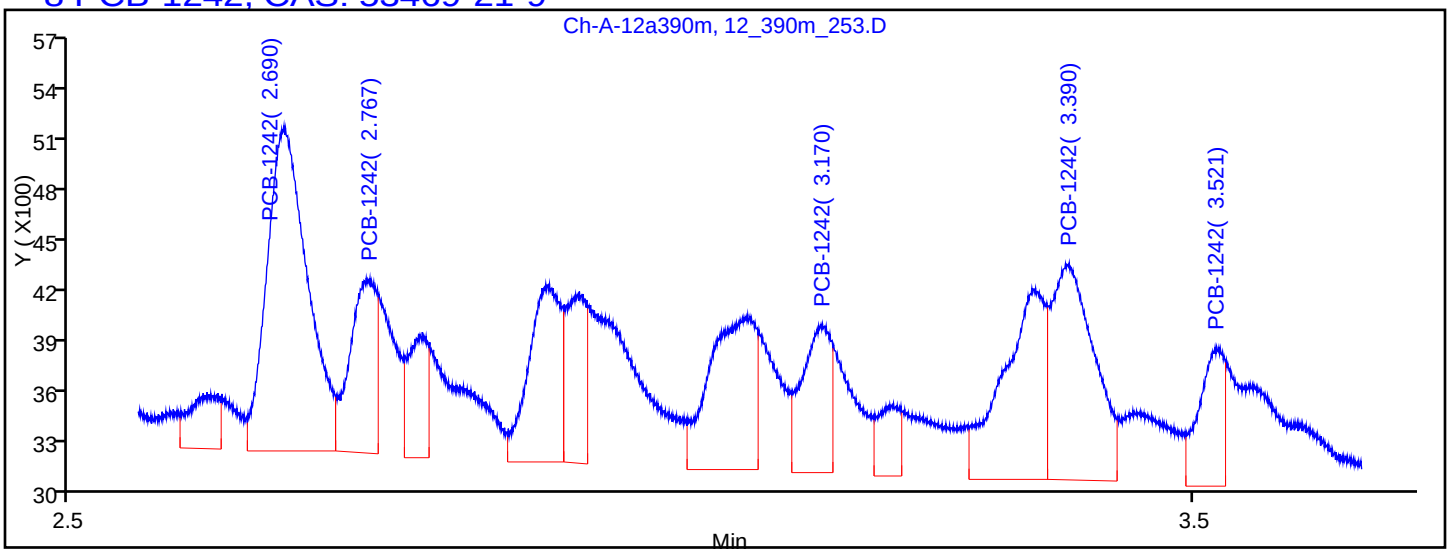
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 6

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 5890-12 PCB IS Limit Group: GC - 8082A PCB IS ICAL

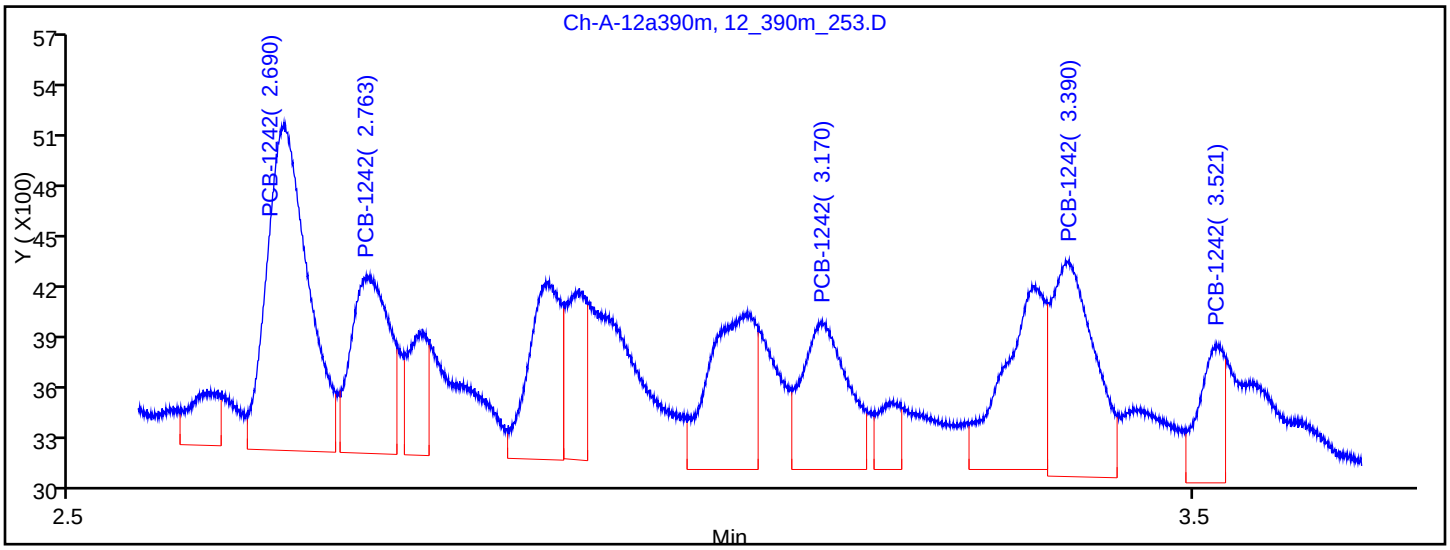
Column: Detector Ch-A-7A136

8 PCB-1242, CAS: 53469-21-9



Processing Integration Results

2.690	Response = 4812
2.767	Response = 1684
3.170	Response = 1540
3.390	Response = 3369
3.521	Response = 1254



Manual Integration Results

2.690	Response = 4897	M
2.763	Response = 2454	M
3.170	Response = 2465	M
3.390	Response = 3369	
3.521	Response = 1254	

Reviewer: owenj, 15-May-2017 13:14:57

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Report Date: 15-May-2017 13:44:12 Chrom Revision: 2.2 18-Apr-2017 07:43:58

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170513-62487.b\12_390m_253.D

Injection Date: 13-May-2017 12:34:01 Instrument ID: HP5890-12

Lims ID: IC 1

Client ID:

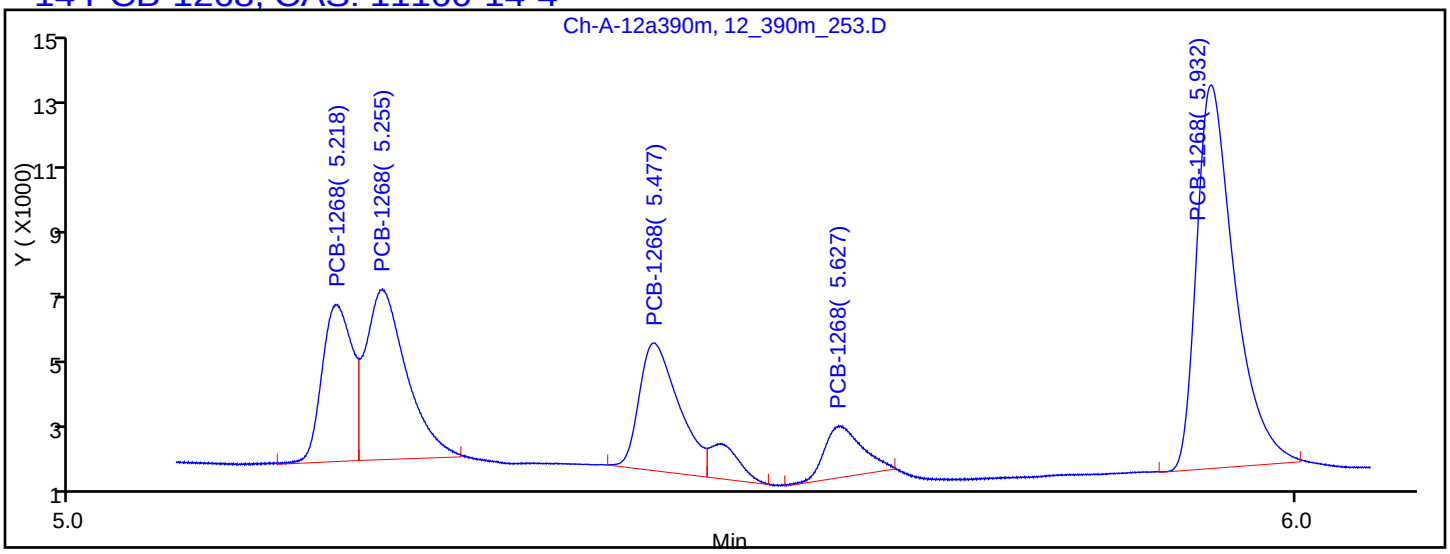
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 6

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 5890-12 PCB IS Limit Group: GC - 8082A PCB IS ICAL

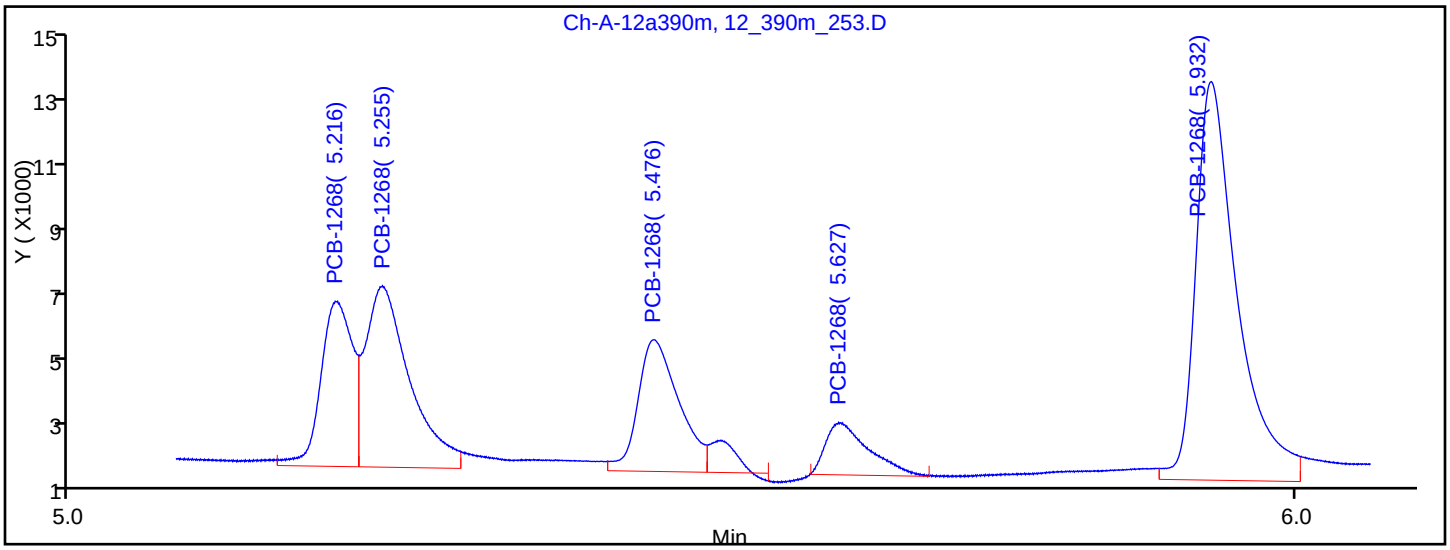
Column: Detector Ch-A-7A136

14 PCB-1268, CAS: 11100-14-4



Processing Integration Results

5.218	Response = 7516
5.255	Response = 10888
5.477	Response = 8050
5.627	Response = 3073
5.932	Response = 22866



Manual Integration Results

5.216	Response = 8298	M
5.255	Response = 12580	M
5.476	Response = 8550	M
5.627	Response = 3536	M
5.932	Response = 26053	M

Reviewer: owenj, 15-May-2017 13:14:31

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

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

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1 Analy Batch No.: 357246

SDG No.:

Instrument ID: HP5890-12 GC Column: ZB-35 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/13/2017 11:27 Calibration End Date: 05/13/2017 12:34 Calibration ID: 30550

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-357246/6	12_390m_253.D
Level 2	IC 480-357246/5	12_390m_252.D
Level 3	IC 480-357246/4	12_390m_251.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3				B	M1	M2								
PCB-1242 Peak 1	0.0806	0.0678	0.0673			Lin1	0.0003	0.0672							1.0000		0.9900
PCB-1242 Peak 2	0.0306	0.0275	0.0281			Lin1	0	0.0279							1.0000		0.9900
PCB-1242 Peak 3	0.0551	0.0366	0.0326			Lin1	0.0005	0.0330							0.9980		0.9900
PCB-1242 Peak 4	0.0407	0.0357	0.0332			Lin1	0.0002	0.0335							0.9990		0.9900
PCB-1242 Peak 5	0.0341	0.0272	0.0260			Lin1	0.0002	0.0261							1.0000		0.9900
PCB-1268 Peak 1	0.1332	0.1167	0.1048			Lin1	0.0007	0.1066							0.9980		0.9900
PCB-1268 Peak 2	0.1827	0.1686	0.1494			Lin1	0.0008	0.1525							0.9980		0.9900
PCB-1268 Peak 3	0.1141	0.1212	0.1065			Lin1	0.0003	0.1091							0.9970		0.9900
PCB-1268 Peak 4	0.0412	0.0558	0.0521			Lin1	0	0.0529							0.9990		0.9900
PCB-1268 Peak 5	0.4782	0.4057	0.3458			Lin1	0.0031	0.3550							0.9960		0.9900

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

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

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1 Analy Batch No.: 357246

SDG No.:

Instrument ID: HP5890-12 GC Column: ZB-35 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/13/2017 11:27 Calibration End Date: 05/13/2017 12:34 Calibration ID: 30550

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-357246/6	12_390m_253.D
Level 2	IC 480-357246/5	12_390m_252.D
Level 3	IC 480-357246/4	12_390m_251.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1	LVL 2	LVL 3			LVL 1	LVL 2	LVL 3		
PCB-1242 Peak 1	BNB	Lin1	3546	73080	293045			0.0200	0.500	2.00		
PCB-1242 Peak 2	BNB	Lin1	1345	29671	122283			0.0200	0.500	2.00		
PCB-1242 Peak 3	BNB	Lin1	2425	39423	141804			0.0200	0.500	2.00		
PCB-1242 Peak 4	BNB	Lin1	1788	38454	144501			0.0200	0.500	2.00		
PCB-1242 Peak 5	BNB	Lin1	1500	29307	113131			0.0200	0.500	2.00		
PCB-1268 Peak 1	BNB	Lin1	5858	125712	456518			0.0200	0.500	2.00		
PCB-1268 Peak 2	BNB	Lin1	8035	181615	650993			0.0200	0.500	2.00		
PCB-1268 Peak 3	BNB	Lin1	5017	130605	463744			0.0200	0.500	2.00		
PCB-1268 Peak 4	BNB	Lin1	1812	60113	226844			0.0200	0.500	2.00		
PCB-1268 Peak 5	BNB	Lin1	21028	437177	1506102			0.0200	0.500	2.00		

Curve Type Legend:
Lin1 = Linear 1/conc ISTD

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170513-62487.b\12_390m_251.D
Lims ID: IC 3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 13-May-2017 11:27:32 ALS Bottle#: 0 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP5890-12
Sublist: chrom-5890-12 PCB IS*sub4

Method: \\ChromNA\Buffalo\ChromData\HP5890-12\20170513-62487.b\5890-12 PCB IS.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 15-May-2017 13:44:07 Calib Date: 13-May-2017 13:35:27
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170513-62487.b\12_390m_257.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK026

First Level Reviewer: owenj Date: 15-May-2017 13:14:01

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.319	1.319	0.000	1214930	0.5000	0.5000	
2	1.615	1.617	-0.002	1088987	0.5000	0.5000	
						RPD = 0.00	
8 PCB-1242							M
1	2.672	2.690	-0.018	369463	2.00	1.96	
1	2.745	2.763	-0.018	150036	2.00	1.96	
1	3.153	3.170	-0.017	138818	2.00	1.98	
1	3.371	3.390	-0.019	225700	2.00	1.96	
1	3.505	3.521	-0.016	100501	2.00	1.98	
		Average of Peak Amounts =				1.97	
2	3.241	3.253	-0.012	293045	2.00	2.00	M
2	3.359	3.369	-0.010	122283	2.00	2.01	M
2	3.534	3.544	-0.010	141804	2.00	1.96	M
2	3.739	3.751	-0.012	144501	2.00	1.97	M
2	3.977	3.987	-0.010	113131	2.00	1.99	M
		Average of Peak Amounts =				1.99	
						RPD = 0.94	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
14 PCB-1268							
1	5.197	5.216	-0.019	482272	2.00	1.92	
1	5.235	5.255	-0.020	969217	2.00	1.96	
1	5.458	5.476	-0.018	536077	2.00	1.94	
1	5.609	5.627	-0.018	269307	2.00	1.98	
1	5.911	5.932	-0.021	1762050	2.00	1.94	
		Average of Peak Amounts =				1.95	
2	5.902	5.919	-0.017	456518	2.00	1.96	
2	5.946	5.961	-0.015	650993	2.00	1.95	
2	6.225	6.240	-0.015	463744	2.00	1.95	
2	6.441	6.457	-0.016	226844	2.00	1.97	
2	6.841	6.859	-0.018	1506102	2.00	1.94	
		Average of Peak Amounts =				1.95	
						RPD = 0.36	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

42-68w/IS@2.0_00005 Amount Added: 1.00 Units: mL

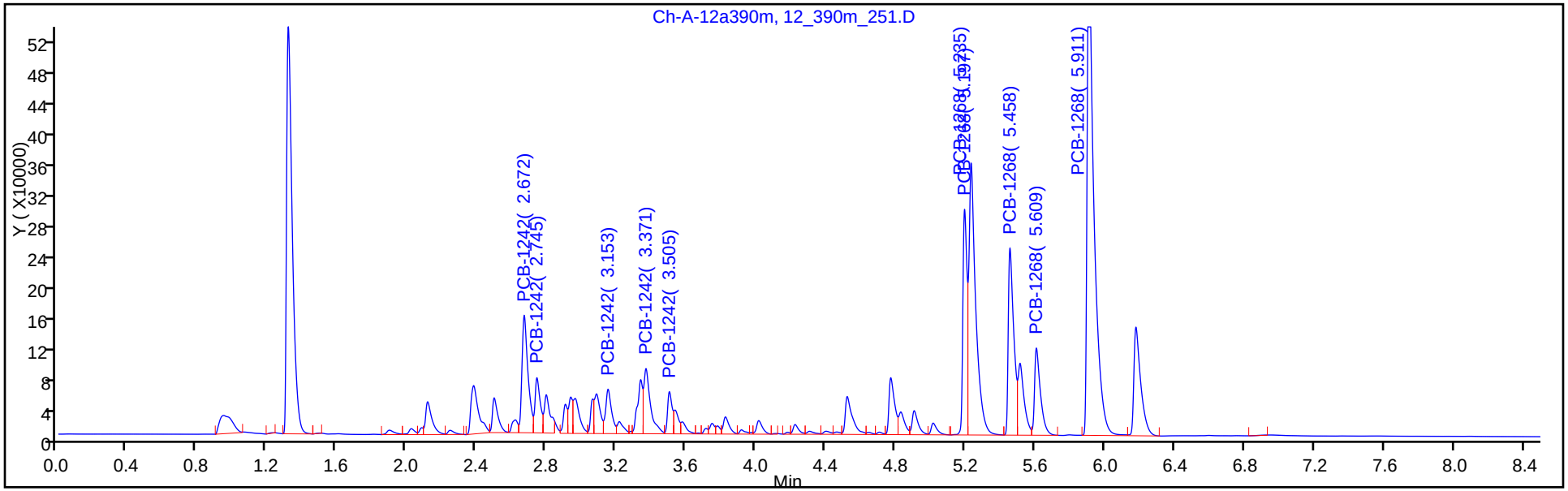
Report Date: 15-May-2017 13:44:07 Chrom Revision: 2.2 18-Apr-2017 07:43:58

TestAmerica Buffalo

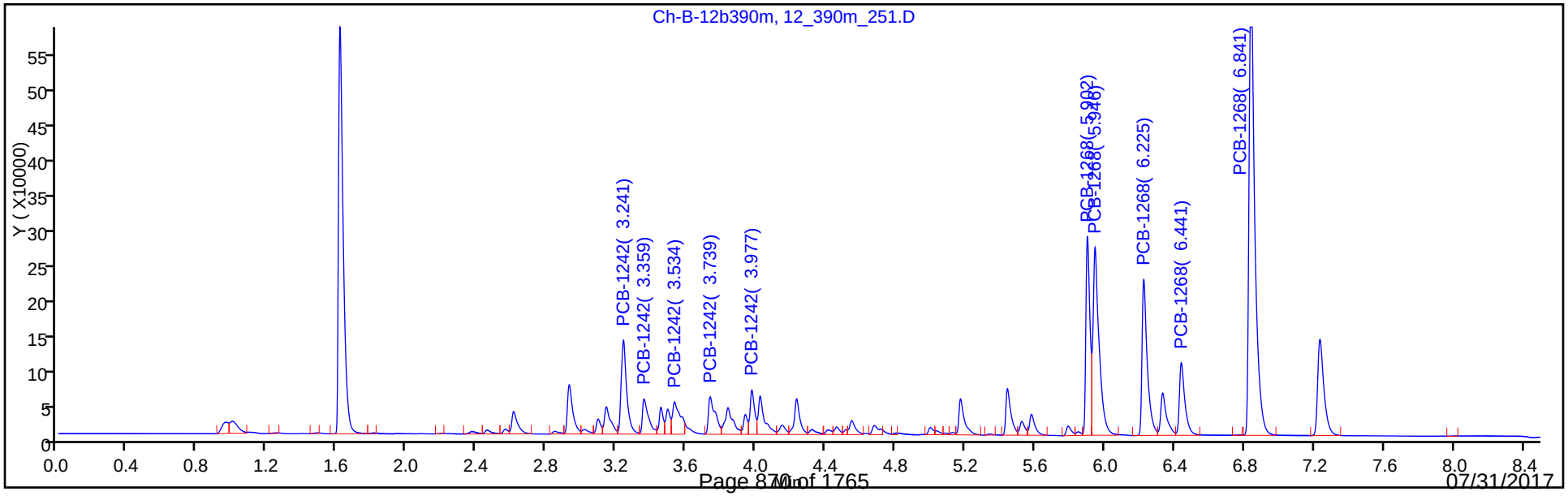
Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170513-62487.b\12_390m_251.D

Injection Date:	13-May-2017 11:27:32	Instrument ID:	HP5890-12	Operator ID:	BufTCHROM
Lims ID:	IC 3			Worklist Smp#:	4
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	5890-12 PCB IS	Limit Group:	GC - 8082A PCB IS ICAL		

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



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



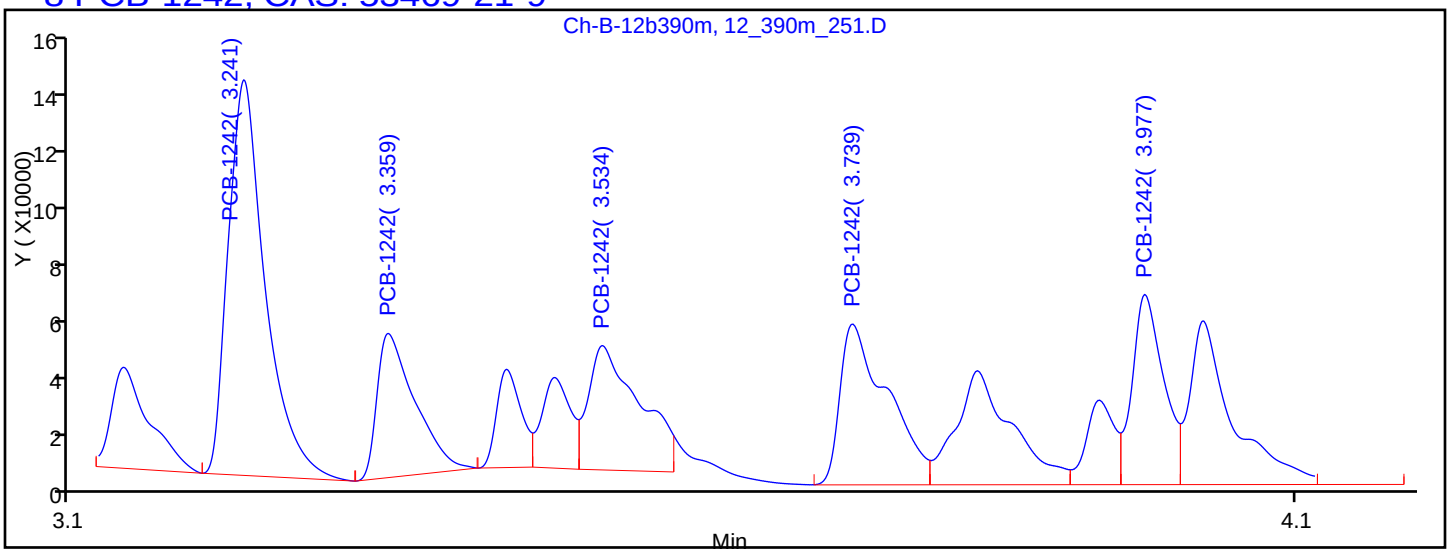
Report Date: 15-May-2017 13:44:08 Chrom Revision: 2.2 18-Apr-2017 07:43:58

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170513-62487.b\12_390m_251.D

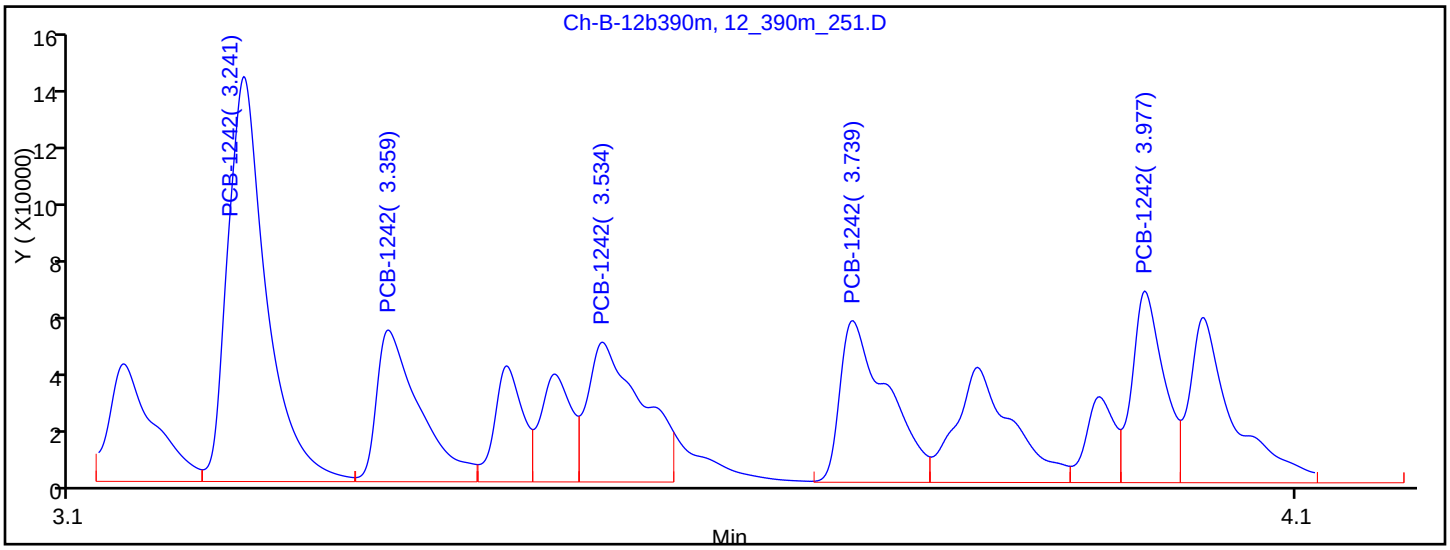
Injection Date:	13-May-2017 11:27:32	Instrument ID:	HP5890-12		
Lims ID:	IC 3				
Client ID:					
Operator ID:	BufTCHROM	ALS Bottle#:	0	Worklist Smp#:	4
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	5890-12 PCB IS	Limit Group:	GC - 8082A PCB IS ICAL		
Column:		Detector	Ch-B-7b136		

8 PCB-1242, CAS: 53469-21-9



Processing Integration Results

3.241	Response = 273795
3.359	Response = 101527
3.534	Response = 119209
3.739	Response = 142777
3.977	Response = 111706



Manual Integration Results

3.241	Response = 293045	M
3.359	Response = 122283	M
3.534	Response = 141804	M
3.739	Response = 144501	M
3.977	Response = 113131	M

Reviewer: owenj, 15-May-2017 13:13:52

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170513-62487.b\12_390m_252.D
Lims ID: IC 2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 13-May-2017 11:42:54 ALS Bottle#: 0 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP5890-12
Sublist: chrom-5890-12 PCB IS*sub4

Method: \\ChromNA\Buffalo\ChromData\HP5890-12\20170513-62487.b\5890-12 PCB IS.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 15-May-2017 13:44:09 Calib Date: 13-May-2017 13:35:27
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170513-62487.b\12_390m_257.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK026

First Level Reviewer: owenj Date: 15-May-2017 13:14:19

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.319	1.319	0.000	1220981	0.5000	0.5000	
2	1.616	1.617	-0.001	1077513	0.5000	0.5000	
						RPD = 0.00	
8 PCB-1242							M
1	2.675	2.690	-0.015	103486	0.5000	0.5417	
1	2.748	2.763	-0.015	42207	0.5000	0.5402	
1	3.155	3.170	-0.015	37091	0.5000	0.5168	
1	3.373	3.390	-0.017	64171	0.5000	0.5464	
1	3.507	3.521	-0.014	27016	0.5000	0.5252	
		Average of Peak Amounts =				0.5341	
2	3.244	3.253	-0.009	73080	0.5000	0.5008	
2	3.363	3.369	-0.006	29671	0.5000	0.4913	
2	3.537	3.544	-0.007	39423	0.5000	0.5404	M
2	3.743	3.751	-0.008	38454	0.5000	0.5271	
2	3.981	3.987	-0.006	29307	0.5000	0.5149	
		Average of Peak Amounts =				0.5149	
						RPD = 3.65	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
14 PCB-1268							
1	5.200	5.216	-0.016	150697	0.5000	0.5860	
1	5.237	5.255	-0.018	267924	0.5000	0.5364	
1	5.460	5.476	-0.016	158677	0.5000	0.5629	
1	5.612	5.627	-0.015	71488	0.5000	0.5193	
1	5.913	5.932	-0.019	522912	0.5000	0.5652	
		Average of Peak Amounts =				0.5540	
2	5.905	5.919	-0.014	125712	0.5000	0.5410	
2	5.949	5.961	-0.012	181615	0.5000	0.5471	
2	6.229	6.240	-0.011	130605	0.5000	0.5529	
2	6.445	6.457	-0.012	60113	0.5000	0.5303	
2	6.844	6.859	-0.015	437177	0.5000	0.5627	
		Average of Peak Amounts =				0.5468	
						RPD = 1.30	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

42-68w/IS@0.5_00008 Amount Added: 1.00 Units: mL

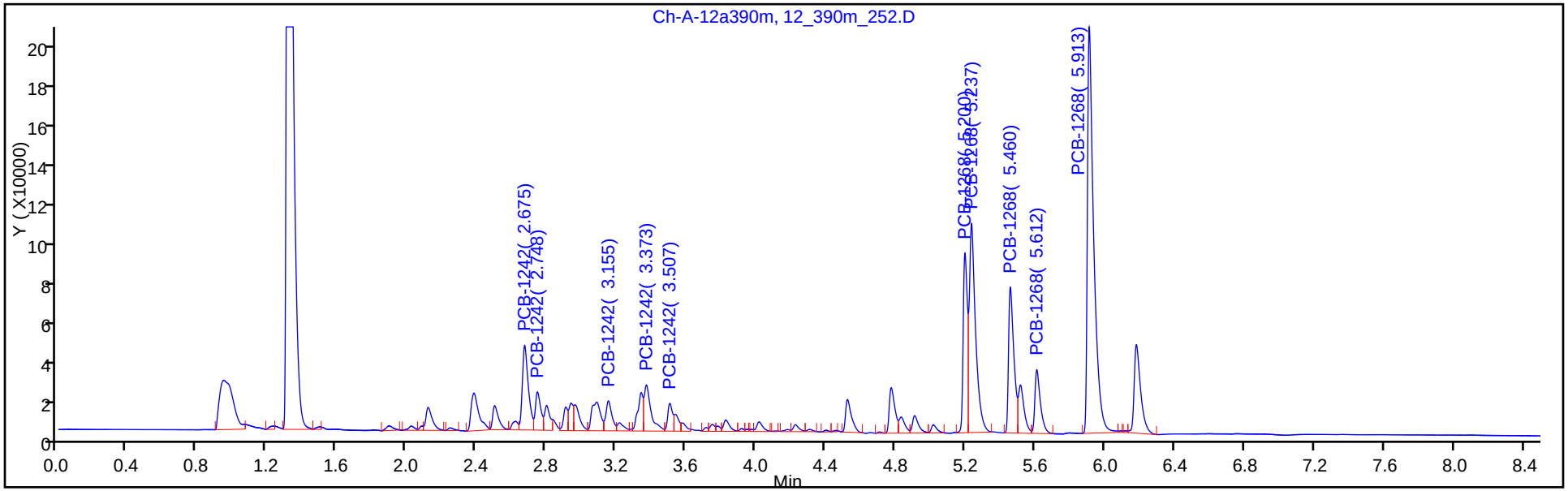
Report Date: 15-May-2017 13:44:10 Chrom Revision: 2.2 18-Apr-2017 07:43:58

TestAmerica Buffalo

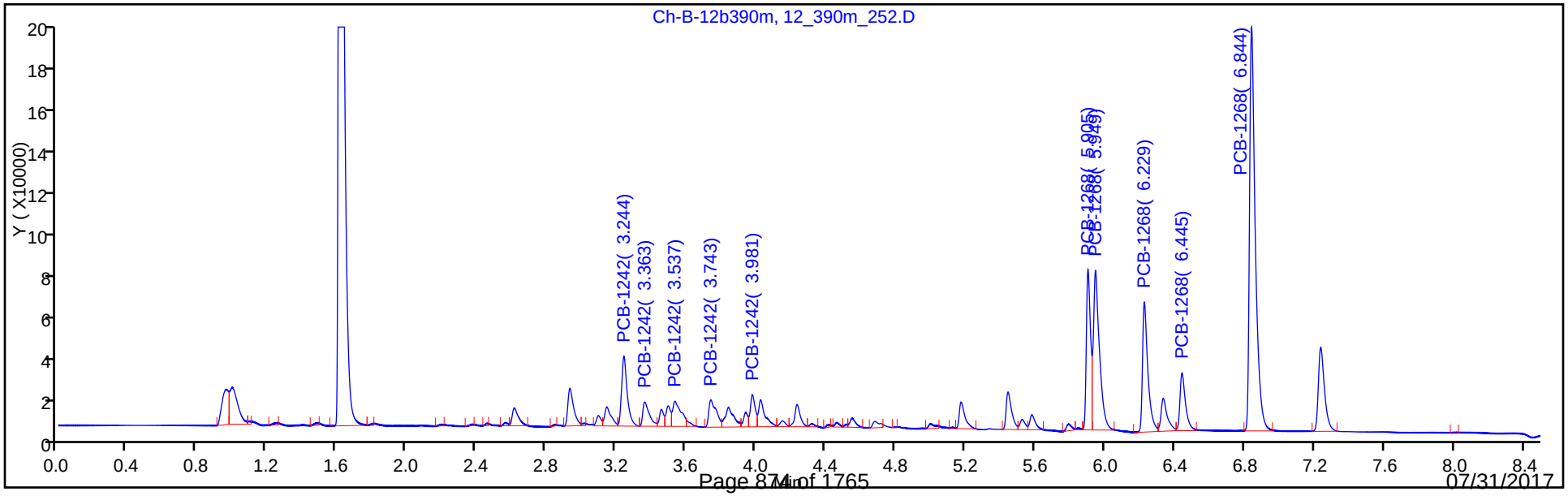
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Injection Date:	13-May-2017 11:42:54	Instrument ID:	HP5890-12	Operator ID:	BufTCHROM
Lims ID:	IC 2			Worklist Smp#:	5
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	5890-12 PCB IS	Limit Group:	GC - 8082A PCB IS ICAL		

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



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



Report Date: 15-May-2017 13:44:10 Chrom Revision: 2.2 18-Apr-2017 07:43:58

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170513-62487.b\12_390m_252.D

Injection Date: 13-May-2017 11:42:54 Instrument ID: HP5890-12

Lims ID: IC 2

Client ID:

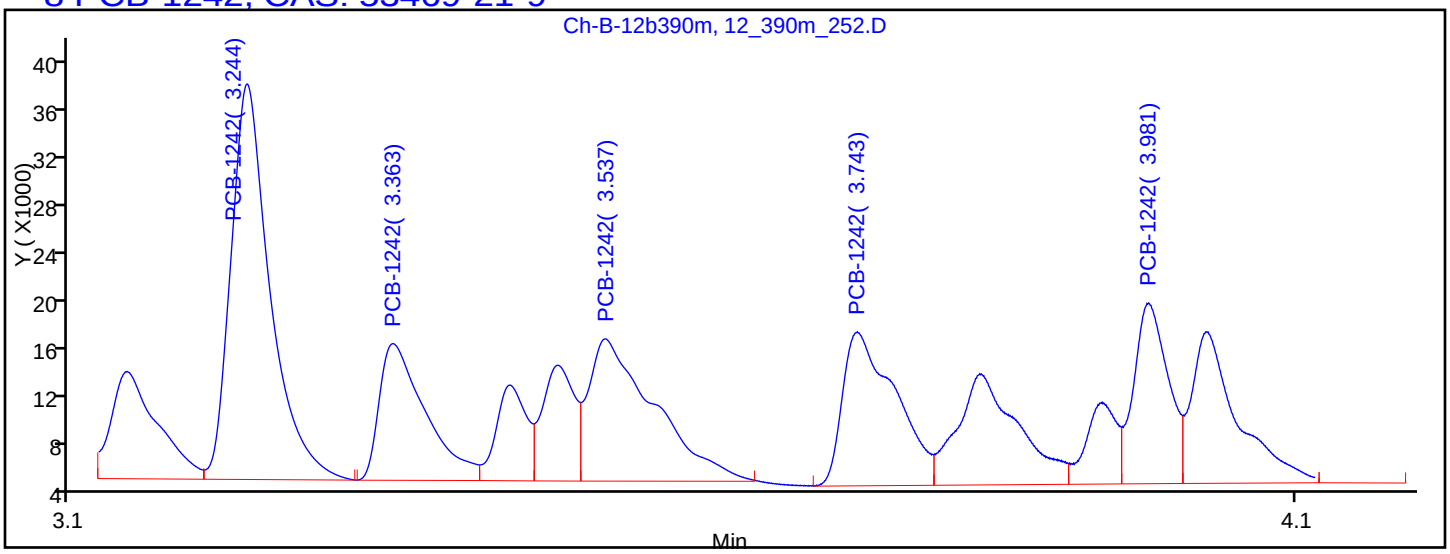
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 5

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 5890-12 PCB IS Limit Group: GC - 8082A PCB IS ICAL

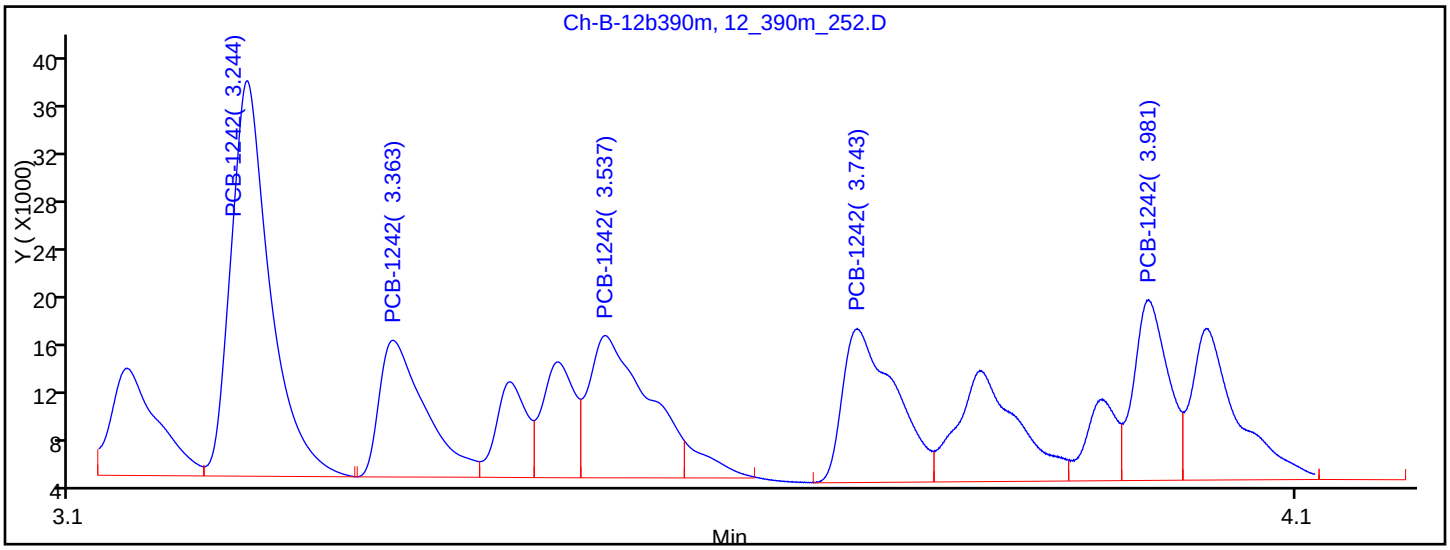
Column: Detector Ch-B-7b136

8 PCB-1242, CAS: 53469-21-9



Processing Integration Results

3.244	Response = 73080
3.363	Response = 29671
3.537	Response = 43891
3.743	Response = 38454
3.981	Response = 29307



Manual Integration Results

3.244	Response = 73080	
3.363	Response = 29671	
3.537	Response = 39423	M
3.743	Response = 38454	
3.981	Response = 29307	

Reviewer: owenj, 15-May-2017 13:14:15

Audit Action: Split an Integrated Peak Audit Reason: Split Peak

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170513-62487.b\12_390m_253.D
Lims ID: IC 1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 13-May-2017 12:34:01 ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP5890-12
Sublist: chrom-5890-12 PCB IS*sub4

Method: \\ChromNA\Buffalo\ChromData\HP5890-12\20170513-62487.b\5890-12 PCB IS.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 15-May-2017 13:44:12 Calib Date: 13-May-2017 13:35:27
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170513-62487.b\12_390m_257.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK026

First Level Reviewer: owenj Date: 15-May-2017 13:16:03

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.321	1.321	0.000	1271814	0.5000	0.5000	
2	1.618	1.618	0.000	1099341	0.5000	0.5000	
						RPD = 0.00	
8 PCB-1242							M
1	2.690	2.690	0.000	4897	0.0200	0.0187	M
1	2.763	2.763	0.000	2454	0.0200	0.0188	M
1	3.170	3.170	0.000	2465	0.0200	0.0195	M
1	3.390	3.390	0.000	3369	0.0200	0.0186	
1	3.521	3.521	0.000	1254	0.0200	0.0192	
		Average of Peak Amounts =				0.0190	
2	3.253	3.253	0.000	3546	0.0200	0.0200	M
2	3.369	3.369	0.000	1345	0.0200	0.0203	M
2	3.544	3.544	0.000	2425	0.0200	0.0188	M
2	3.751	3.751	0.000	1788	0.0200	0.0192	M
2	3.987	3.987	0.000	1500	0.0200	0.0195	M
		Average of Peak Amounts =				0.0195	
						RPD = 3.01	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
14 PCB-1268							M
1	5.216	5.216	0.000	8298	0.0200	0.0174	M
1	5.255	5.255	0.000	12580	0.0200	0.0189	M
1	5.476	5.476	0.000	8550	0.0200	0.0181	M
1	5.627	5.627	0.000	3536	0.0200	0.0194	M
1	5.932	5.932	0.000	26053	0.0200	0.0180	M
		Average of Peak Amounts =				0.0184	
2	5.919	5.919	0.000	5858	0.0200	0.0188	
2	5.961	5.961	0.000	8035	0.0200	0.0186	
2	6.240	6.240	0.000	5017	0.0200	0.0184	M
2	6.457	6.457	0.000	1812	0.0200	0.0191	M
2	6.859	6.859	0.000	21028	0.0200	0.0181	
		Average of Peak Amounts =				0.0186	
						RPD = 1.17	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

42-68w/IS@.02_00005 Amount Added: 1.00 Units: mL

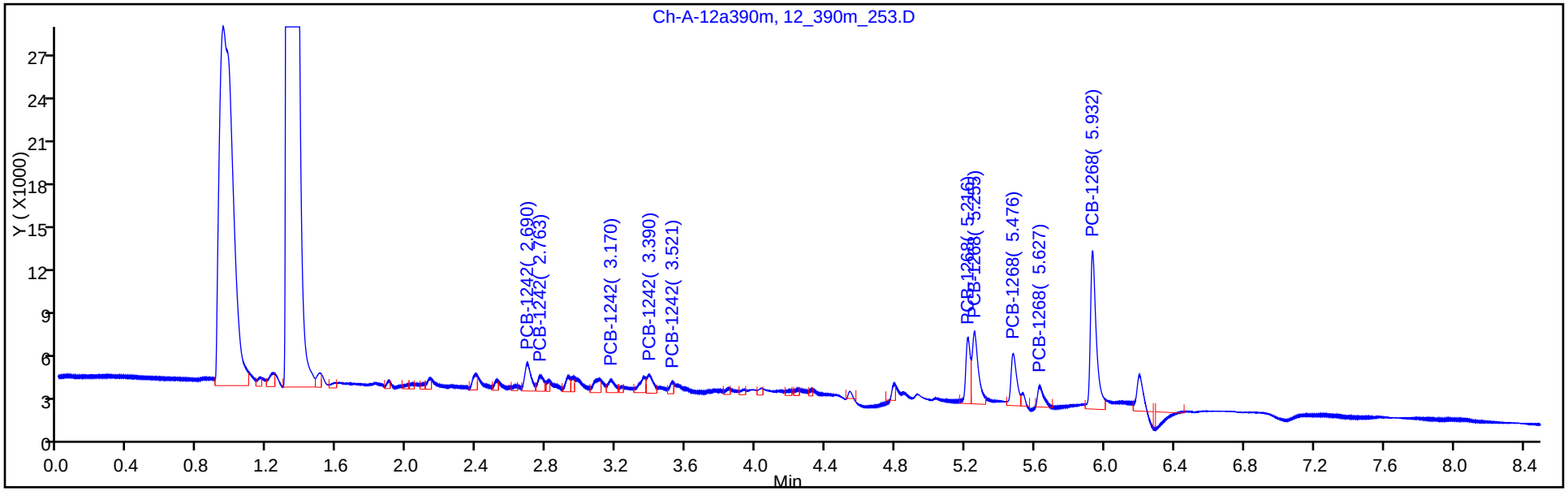
Report Date: 15-May-2017 13:44:12 Chrom Revision: 2.2 18-Apr-2017 07:43:58

TestAmerica Buffalo

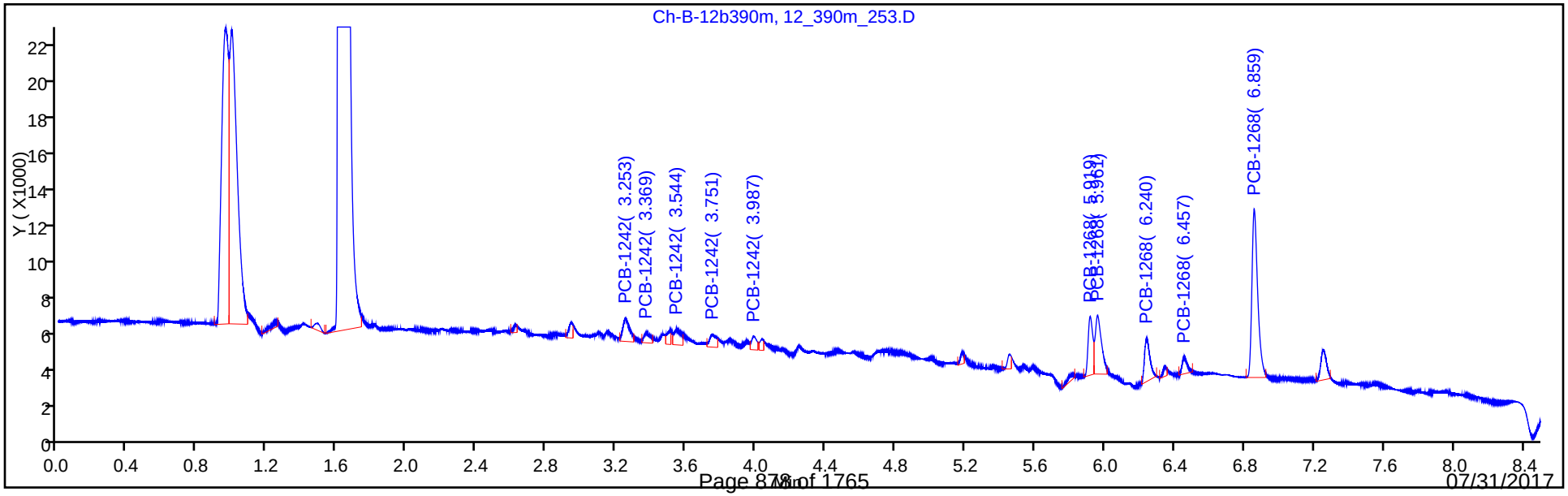
Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170513-62487.b\12_390m_253.D

Injection Date:	13-May-2017 12:34:01	Instrument ID:	HP5890-12	Operator ID:	BufTCHROM
Lims ID:	IC 1			Worklist Smp#:	6
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	5890-12 PCB IS	Limit Group:	GC - 8082A PCB IS ICAL		

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



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



Report Date: 15-May-2017 13:44:12 Chrom Revision: 2.2 18-Apr-2017 07:43:58

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170513-62487.b\12_390m_253.D

Injection Date: 13-May-2017 12:34:01 Instrument ID: HP5890-12

Lims ID: IC 1

Client ID:

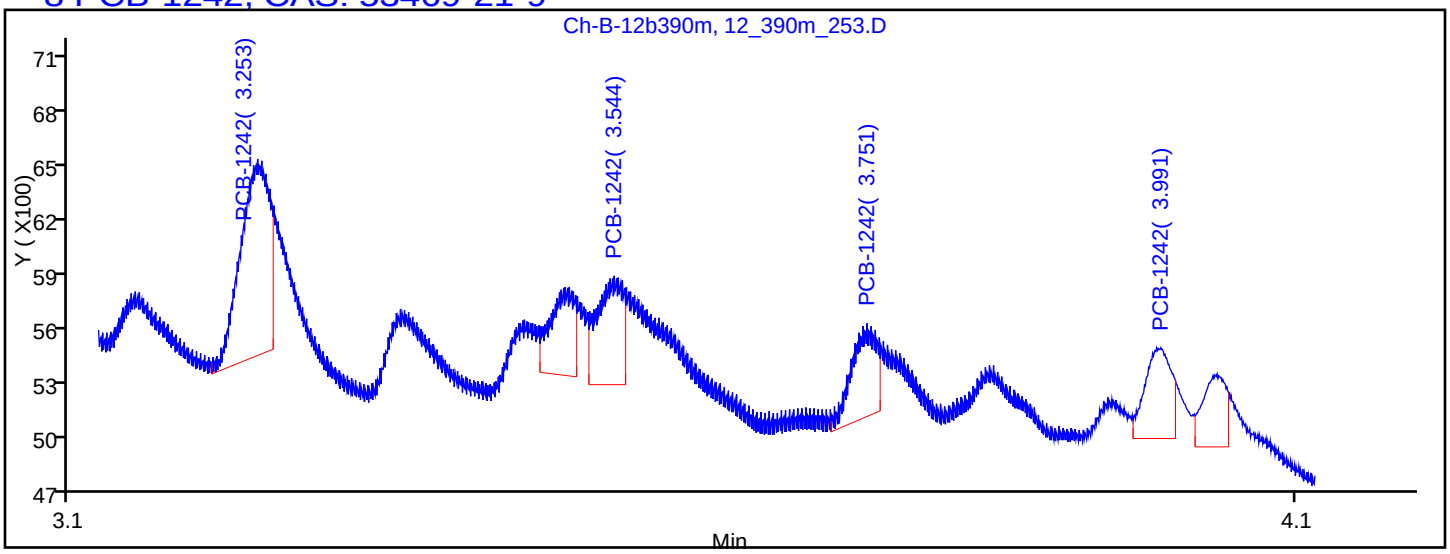
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 6

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 5890-12 PCB IS Limit Group: GC - 8082A PCB IS ICAL

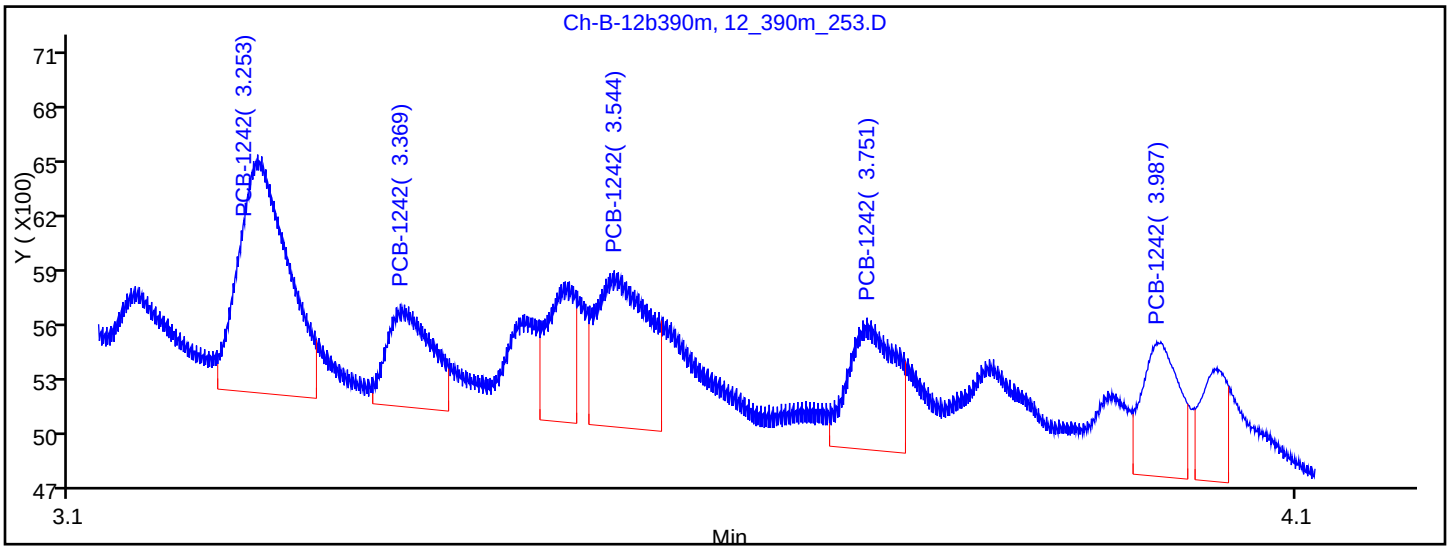
Column: Detector Ch-B-7b136

8 PCB-1242, CAS: 53469-21-9



Processing Integration Results

3.253	Response = 1712
3.369	Response = 0
3.544	Response = 822
3.751	Response = 685
3.991	Response = 719



Manual Integration Results

3.253	Response = 3546	M
3.369	Response = 1345	M
3.544	Response = 2425	M
3.751	Response = 1788	M
3.987	Response = 1500	M

Reviewer: owenj, 15-May-2017 13:15:56

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Report Date: 15-May-2017 13:44:12 Chrom Revision: 2.2 18-Apr-2017 07:43:58

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170513-62487.b\12_390m_253.D

Injection Date: 13-May-2017 12:34:01 Instrument ID: HP5890-12

Lims ID: IC 1

Client ID:

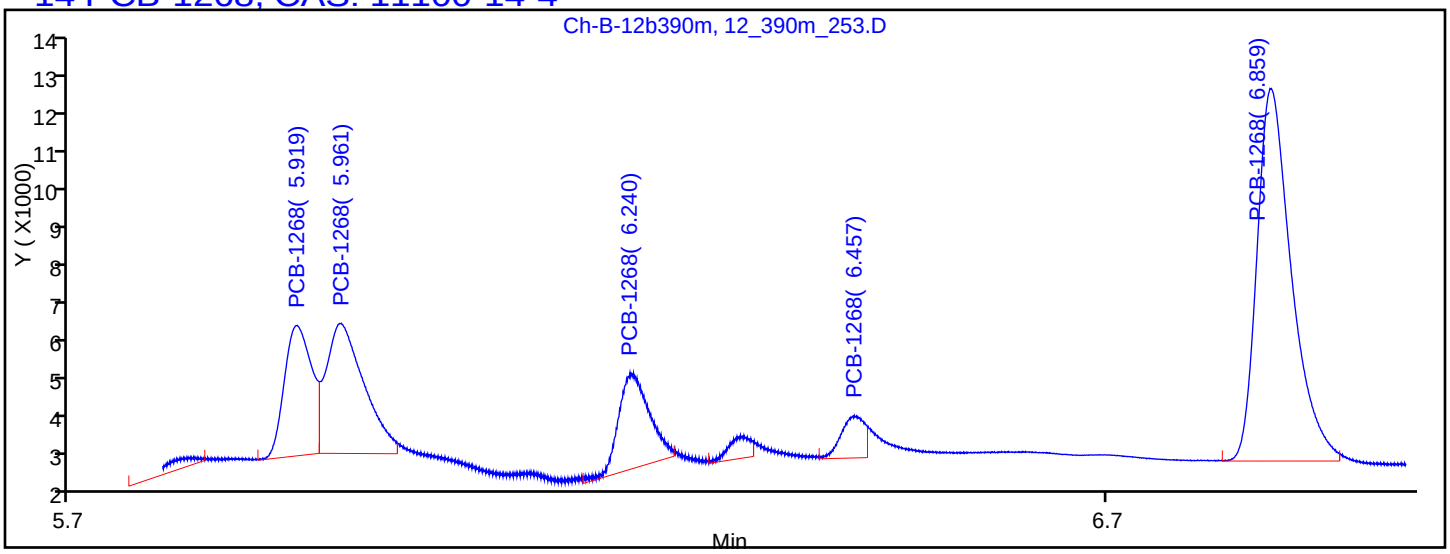
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 6

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 5890-12 PCB IS Limit Group: GC - 8082A PCB IS ICAL

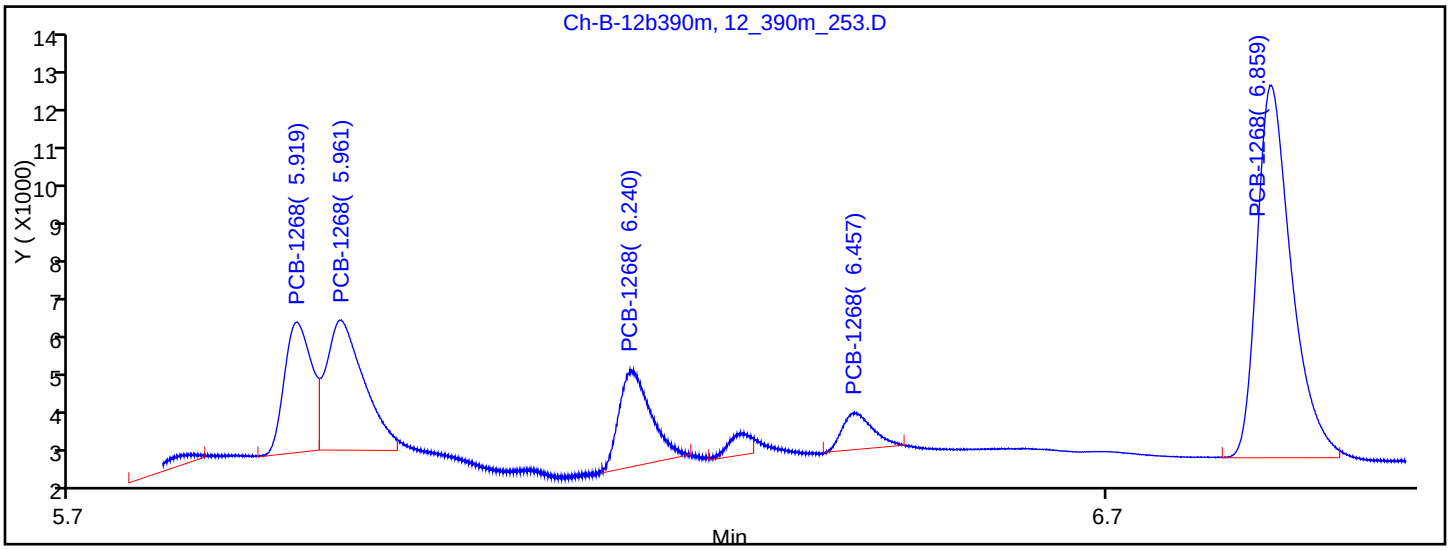
Column: Detector Ch-B-7b136

14 PCB-1268, CAS: 11100-14-4



Processing Integration Results

5.919	Response = 5858
5.961	Response = 8035
6.240	Response = 4838
6.457	Response = 1606
6.859	Response = 21028



Manual Integration Results

5.919	Response = 5858	
5.961	Response = 8035	
6.240	Response = 5017	M
6.457	Response = 1812	M
6.859	Response = 21028	

Reviewer: owenj, 15-May-2017 13:15:24

Audit Action: Manually Integrated Audit Reason: Baseline Smoothing

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

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1 Analy Batch No.: 357246

SDG No.:

Instrument ID: HP5890-12 GC Column: ZB-5 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/13/2017 13:04 Calibration End Date: 05/13/2017 13:35 Calibration ID: 30555

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-357246/10	12_390m_257.D
Level 2	IC 480-357246/9	12_390m_256.D
Level 3	IC 480-357246/8	12_390m_255.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3				B	M1	M2								
PCB-1248 Peak 1	0.0380	0.0255	0.0239			Lin1	0.0003	0.0239							1.0000		0.9900
PCB-1248 Peak 2	0.0505	0.0541	0.0481			Ave		0.0509				6.0		20.0			
PCB-1248 Peak 3	0.0712	0.0636	0.0596			Lin1	0.0003	0.0602							0.9990		0.9900
PCB-1248 Peak 4	0.0919	0.1137	0.0971			Lin1	0	0.1003							0.9950		0.9900
PCB-1248 Peak 5	0.0363	0.0381	0.0333			Lin1	0.0001	0.0342							0.9970		0.9900

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

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

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1 Analy Batch No.: 357246

SDG No.:

Instrument ID: HP5890-12 GC Column: ZB-5 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/13/2017 13:04 Calibration End Date: 05/13/2017 13:35 Calibration ID: 30555

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-357246/10	12_390m_257.D
Level 2	IC 480-357246/9	12_390m_256.D
Level 3	IC 480-357246/8	12_390m_255.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1	LVL 2	LVL 3			LVL 1	LVL 2	LVL 3		
PCB-1248 Peak 1	BNB	Lin1	1900	24981	95422			0.0200	0.500	2.00		
PCB-1248 Peak 2	BNB	Ave	2526	52994	192298			0.0200	0.500	2.00		
PCB-1248 Peak 3	BNB	Lin1	3557	62236	238393			0.0200	0.500	2.00		
PCB-1248 Peak 4	BNB	Lin1	4594	111348	388398			0.0200	0.500	2.00		
PCB-1248 Peak 5	BNB	Lin1	1813	37302	133165			0.0200	0.500	2.00		

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170513-62487.b\12_390m_255.D
Lims ID: IC 3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 13-May-2017 13:04:43 ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP5890-12
Sublist: chrom-5890-12 PCB IS*sub5

Method: \\ChromNA\Buffalo\ChromData\HP5890-12\20170513-62487.b\5890-12 PCB IS.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 15-May-2017 13:44:19 Calib Date: 13-May-2017 13:35:27
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170513-62487.b\12_390m_257.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK026

First Level Reviewer: owenj Date: 15-May-2017 13:20:00

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.319	1.321	-0.002	999992	0.5000	0.5000	
2	1.616	1.618	-0.002	917891	0.5000	0.5000	
						RPD = 0.00	
10 PCB-1248							M
1	2.940	2.940	0.000	95422	2.00	1.98	M
1	3.154	3.157	-0.003	192298	2.00	1.89	M
1	3.341	3.345	-0.004	238393	2.00	1.98	M
1	3.372	3.375	-0.003	388398	2.00	1.94	M
1	3.541	3.543	-0.002	133165	2.00	1.95	M
		Average of Peak Amounts =				1.95	
2	3.535	3.539	-0.004	93778	2.00	1.92	M
2	3.737	3.741	-0.004	119745	2.00	1.97	
2	3.979	3.983	-0.004	179818	2.00	1.95	a
2	4.026	4.029	-0.003	150933	2.00	1.98	a
2	4.235	4.238	-0.003	181538	2.00	1.98	
		Average of Peak Amounts =				1.96	
						RPD = 0.74	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

1248w/IS@ 2.0_00005 Amount Added: 1.00 Units: mL

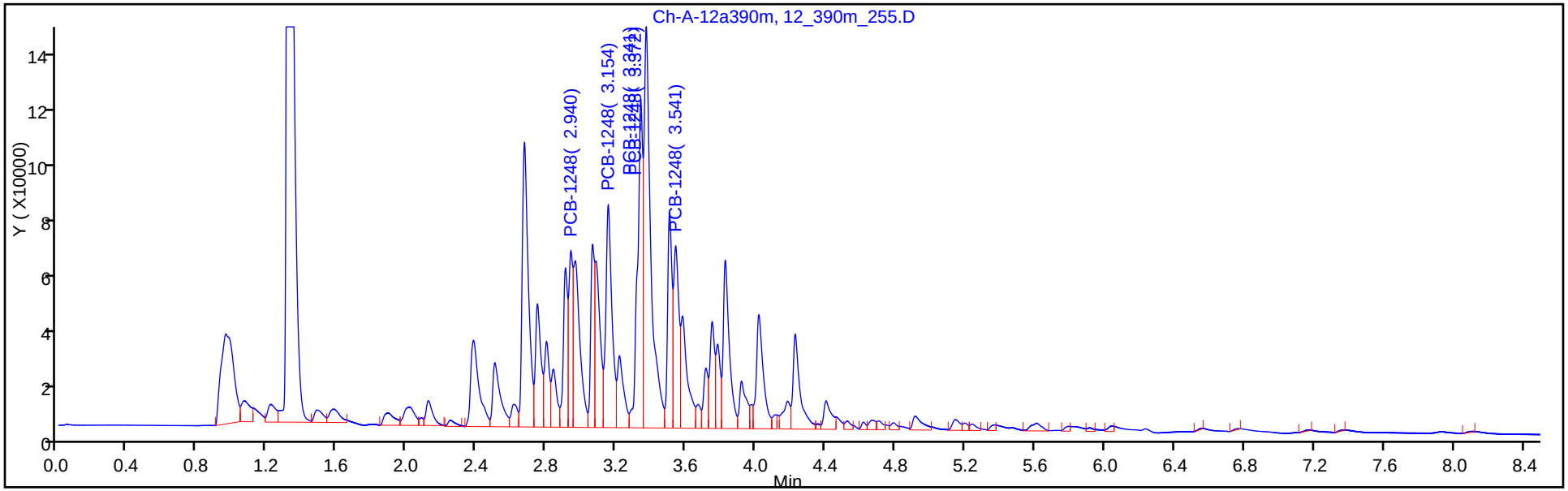
Report Date: 15-May-2017 13:44:19 Chrom Revision: 2.2 18-Apr-2017 07:43:58

TestAmerica Buffalo

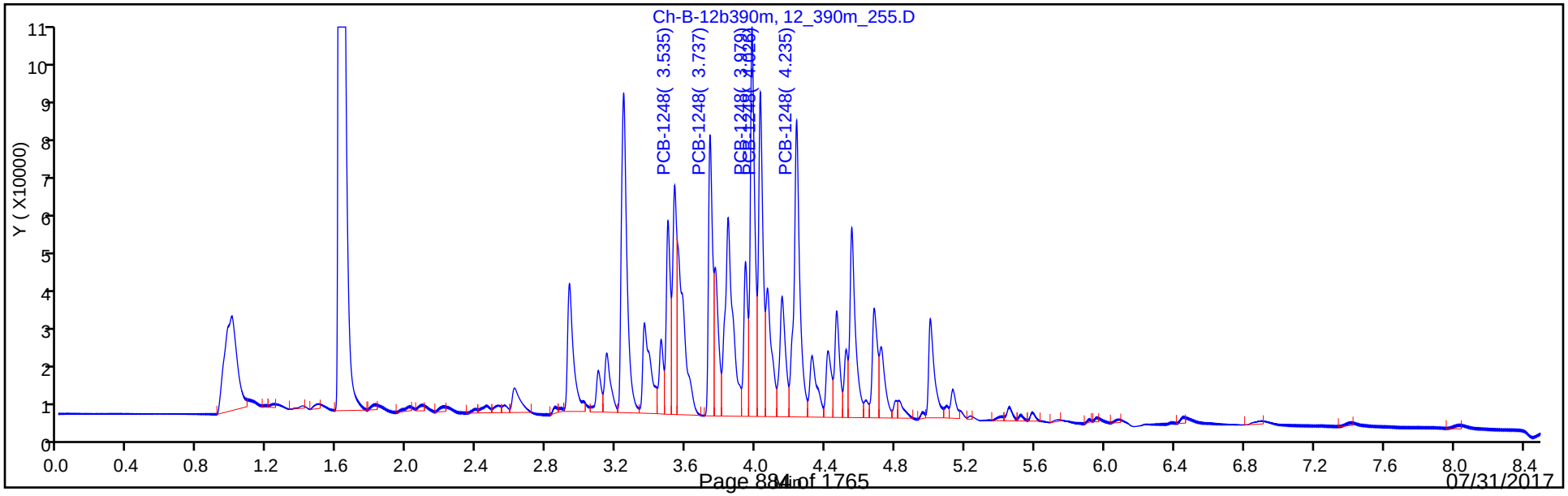
Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170513-62487.b\12_390m_255.D

Injection Date:	13-May-2017 13:04:43	Instrument ID:	HP5890-12	Operator ID:	BufTCHROM
Lims ID:	IC 3			Worklist Smp#:	8
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	5890-12 PCB IS	Limit Group:	GC - 8082A PCB IS ICAL		

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



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



Report Date: 15-May-2017 13:44:19 Chrom Revision: 2.2 18-Apr-2017 07:43:58

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170513-62487.b\12_390m_255.D

Injection Date: 13-May-2017 13:04:43 Instrument ID: HP5890-12

Lims ID: IC 3

Client ID:

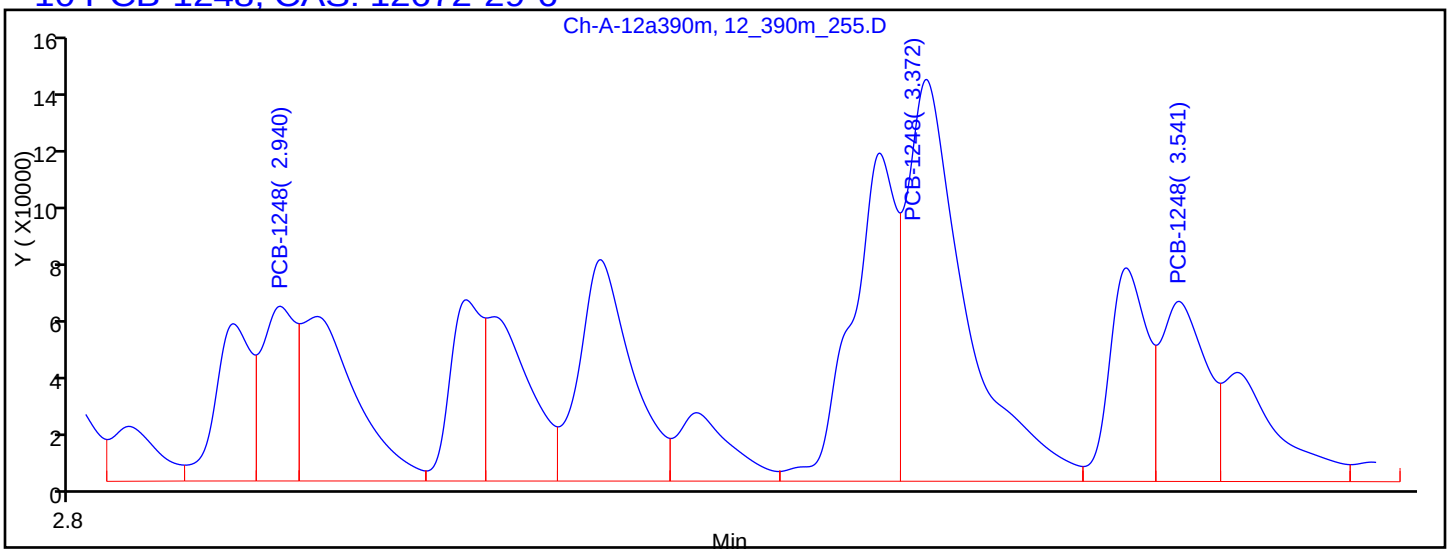
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 8

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 5890-12 PCB IS Limit Group: GC - 8082A PCB IS ICAL

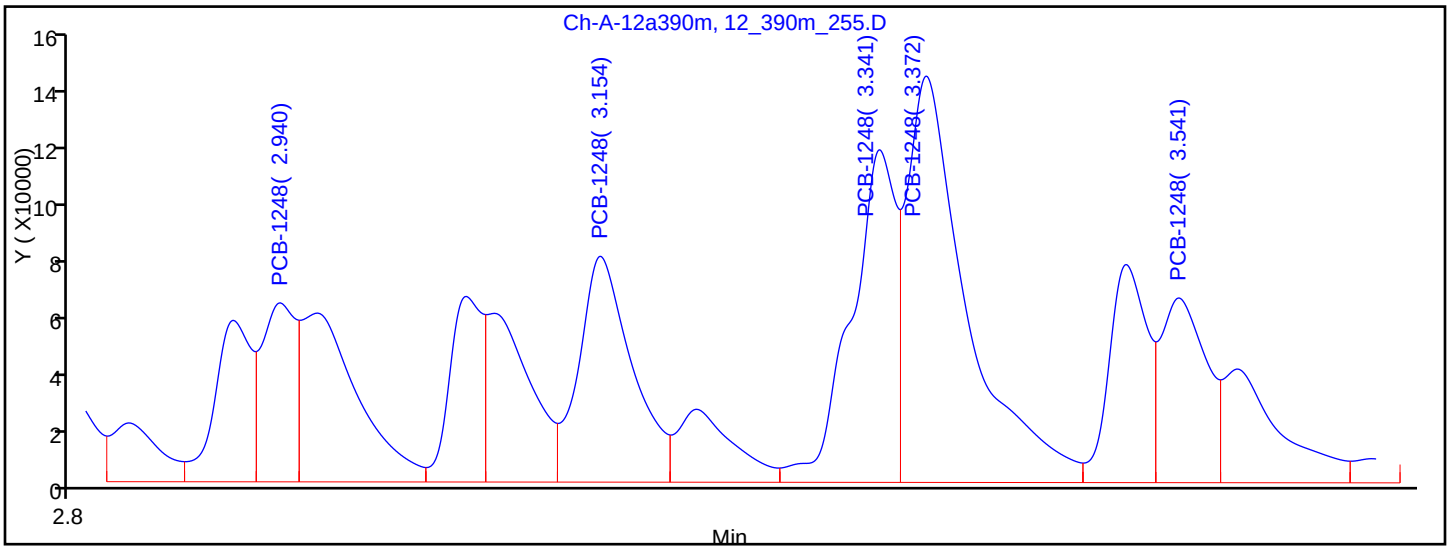
Column: Detector Ch-A-7A136

10 PCB-1248, CAS: 12672-29-6



Processing Integration Results

2.940	Response = 92869
3.065	Response = 92914
3.154	Response = 185280
3.372	Response = 376657
3.541	Response = 129007



Manual Integration Results

2.940	Response = 95422	M
3.154	Response = 192298	M
3.341	Response = 238393	M
3.372	Response = 388398	M
3.541	Response = 133165	M

Reviewer: owenj, 15-May-2017 13:27:56

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170513-62487.b\12_390m_256.D
Lims ID: IC 2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 13-May-2017 13:20:03 ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP5890-12
Sublist: chrom-5890-12 PCB IS*sub5

Method: \\ChromNA\Buffalo\ChromData\HP5890-12\20170513-62487.b\5890-12 PCB IS.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 15-May-2017 13:44:21 Calib Date: 13-May-2017 13:35:27
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170513-62487.b\12_390m_257.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK026

First Level Reviewer: owenj Date: 15-May-2017 13:20:30

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.319	1.321	-0.002	978936	0.5000	0.5000	
2	1.616	1.618	-0.002	907939	0.5000	0.5000	
						RPD = 0.00	
10 PCB-1248							M
1	2.941	2.940	0.001	24981	0.5000	0.5205	M
1	3.157	3.157	0.000	52994	0.5000	0.5316	
1	3.343	3.345	-0.002	62236	0.5000	0.5239	
1	3.375	3.375	0.000	111348	0.5000	0.5666	
1	3.543	3.543	0.000	37302	0.5000	0.5550	
		Average of Peak Amounts =				0.5395	
2	3.537	3.539	-0.002	28873	0.5000	0.5800	M
2	3.741	3.741	0.000	32764	0.5000	0.5335	M
2	3.981	3.983	-0.002	51166	0.5000	0.5501	a
2	4.029	4.029	0.000	40094	0.5000	0.5213	a
2	4.237	4.238	-0.001	48012	0.5000	0.5218	
		Average of Peak Amounts =				0.5413	
						RPD = 0.34	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

1248w/IS@ 0.5_00008 Amount Added: 1.00 Units: mL

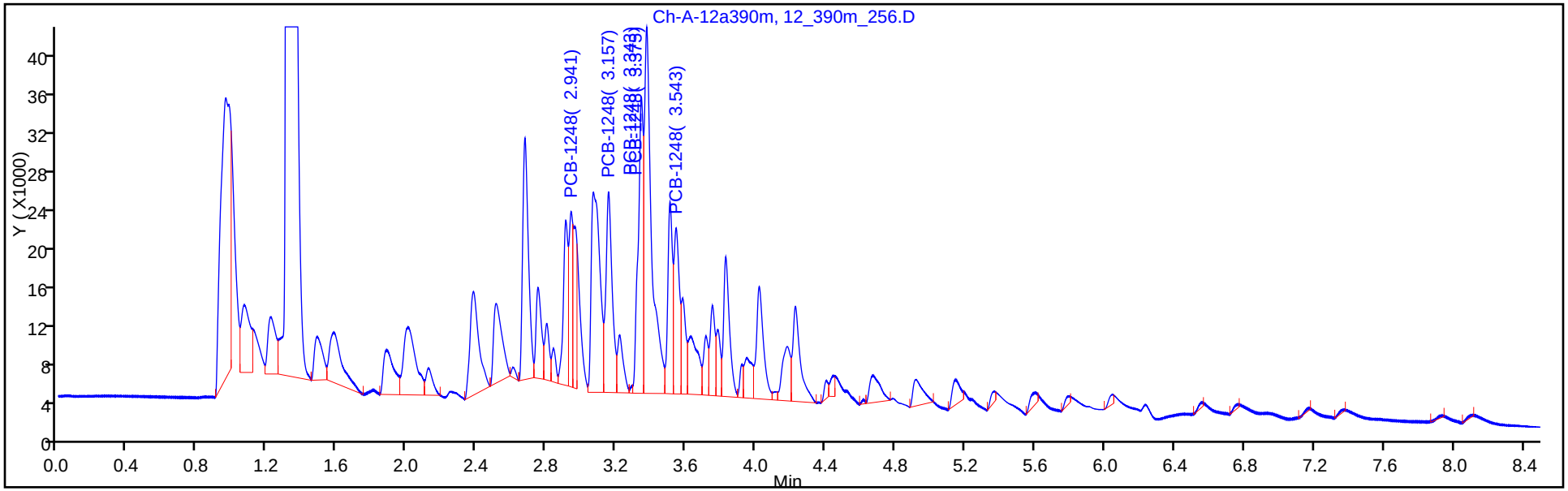
Report Date: 15-May-2017 13:44:22 Chrom Revision: 2.2 18-Apr-2017 07:43:58

TestAmerica Buffalo

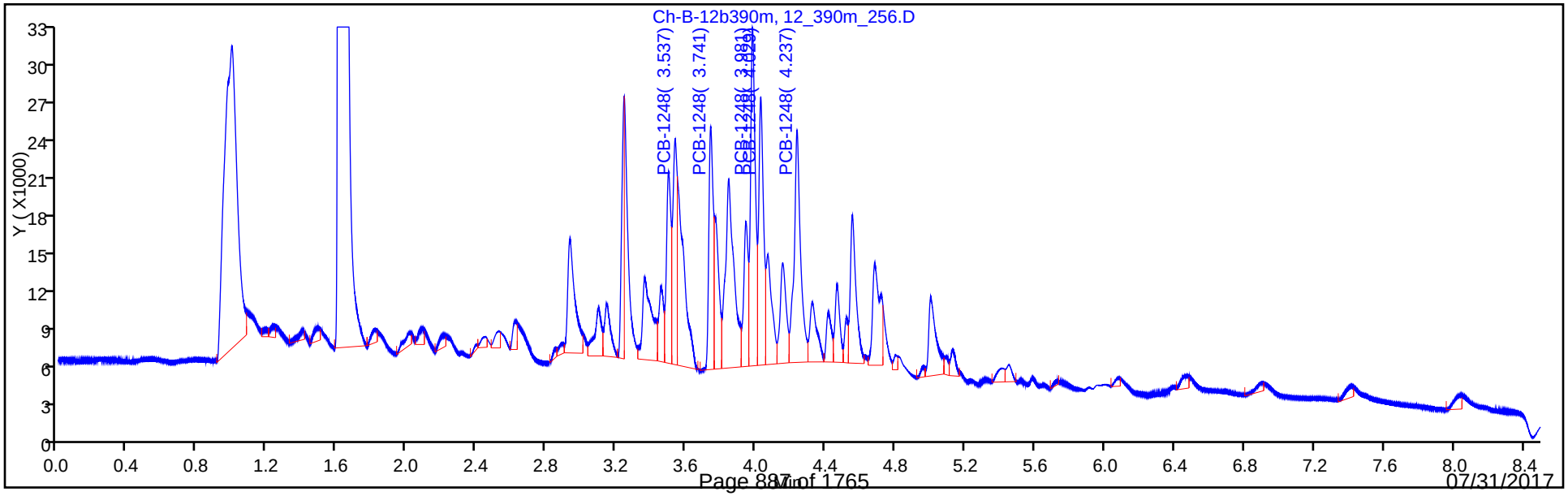
Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170513-62487.b\12_390m_256.D

Injection Date:	13-May-2017 13:20:03	Instrument ID:	HP5890-12	Operator ID:	BufTCHROM
Lims ID:	IC 2			Worklist Smp#:	9
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	5890-12 PCB IS	Limit Group:	GC - 8082A PCB IS ICAL		

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



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



Report Date: 15-May-2017 13:44:22 Chrom Revision: 2.2 18-Apr-2017 07:43:58

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170513-62487.b\12_390m_256.D

Injection Date: 13-May-2017 13:20:03 Instrument ID: HP5890-12

Lims ID: IC 2

Client ID:

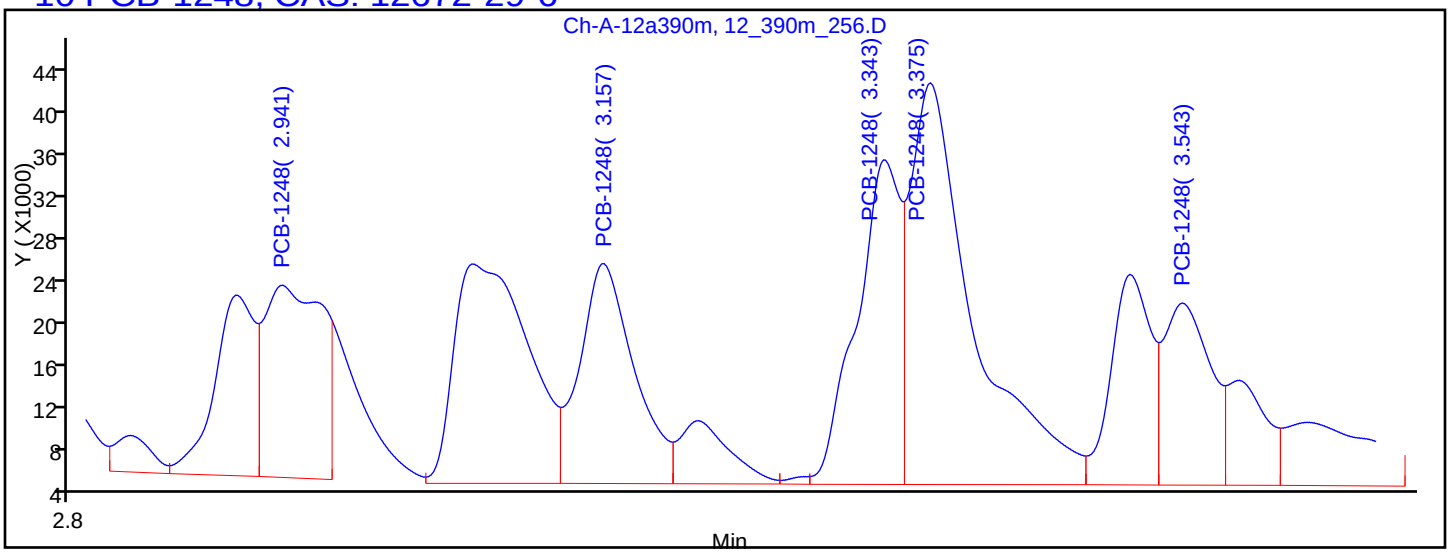
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 9

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 5890-12 PCB IS Limit Group: GC - 8082A PCB IS ICAL

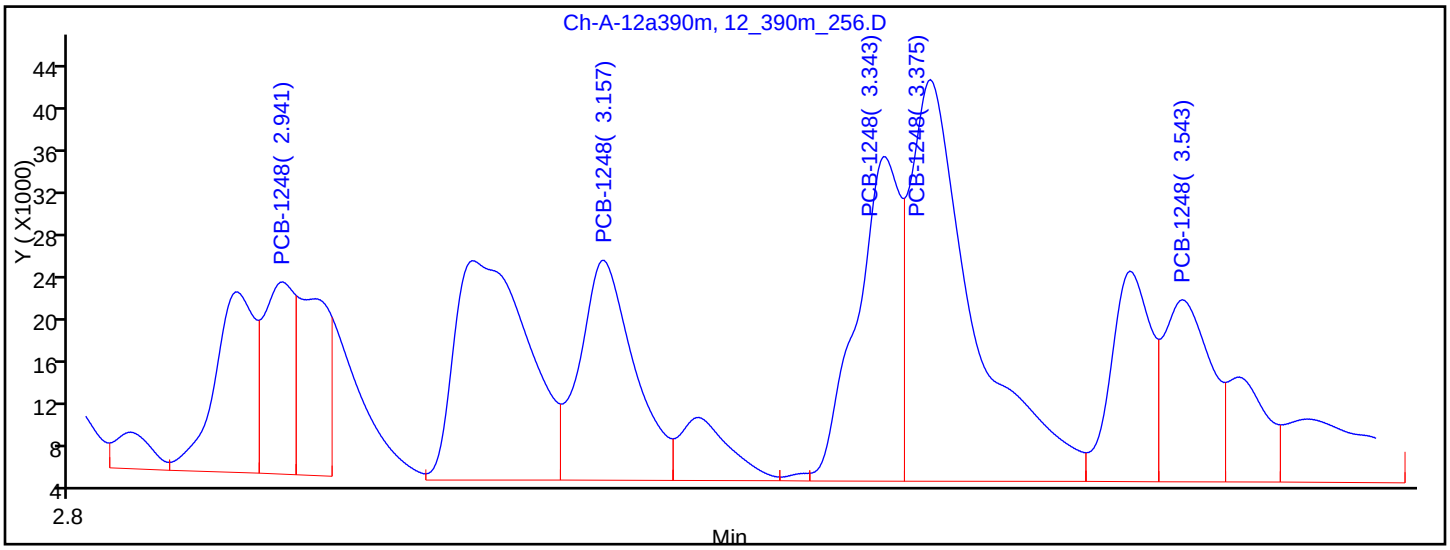
Column: Detector Ch-A-7A136

10 PCB-1248, CAS: 12672-29-6



Processing Integration Results

2.941	Response = 48655
3.157	Response = 52994
3.343	Response = 62236
3.375	Response = 111348
3.543	Response = 37302



Manual Integration Results

2.941	Response = 24981	M
3.157	Response = 52994	
3.343	Response = 62236	
3.375	Response = 111348	
3.543	Response = 37302	

Reviewer: owenj, 15-May-2017 13:33:35

Audit Action: Split an Integrated Peak Audit Reason: Baseline Smoothing

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170513-62487.b\12_390m_257.D
Lims ID: IC 1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 13-May-2017 13:35:27 ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP5890-12
Sublist: chrom-5890-12 PCB IS*sub5

Method: \\ChromNA\Buffalo\ChromData\HP5890-12\20170513-62487.b\5890-12 PCB IS.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 15-May-2017 13:44:24 Calib Date: 13-May-2017 13:35:27
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170513-62487.b\12_390m_257.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK026

First Level Reviewer: owenj Date: 15-May-2017 13:21:37

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							M
1	1.319	1.319	0.000	1249260	0.5000	0.5000	M
2	1.617	1.617	0.000	1080655	0.5000	0.5000	
						RPD = 0.00	
10 PCB-1248							M
1	2.940	2.940	0.000	1900	0.0200	0.0194	M
1	3.157	3.157	0.000	2526	0.0200	0.0199	
1	3.345	3.345	0.000	3557	0.0200	0.0193	
1	3.375	3.375	0.000	4594	0.0200	0.0180	
1	3.543	3.543	0.000	1813	0.0200	0.0183	M
		Average of Peak Amounts =				0.0190	
2	3.539	3.539	0.000	2510	0.0200	0.0176	M
2	3.741	3.741	0.000	2406	0.0200	0.0190	M
2	3.983	3.983	0.000	3692	0.0200	0.0185	M
2	4.029	4.029	0.000	2970	0.0200	0.0194	M
2	4.238	4.238	0.000	3151	0.0200	0.0193	M
		Average of Peak Amounts =				0.0187	
						RPD = 1.16	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

1248w/IS@ .02_00005 Amount Added: 1.00 Units: mL

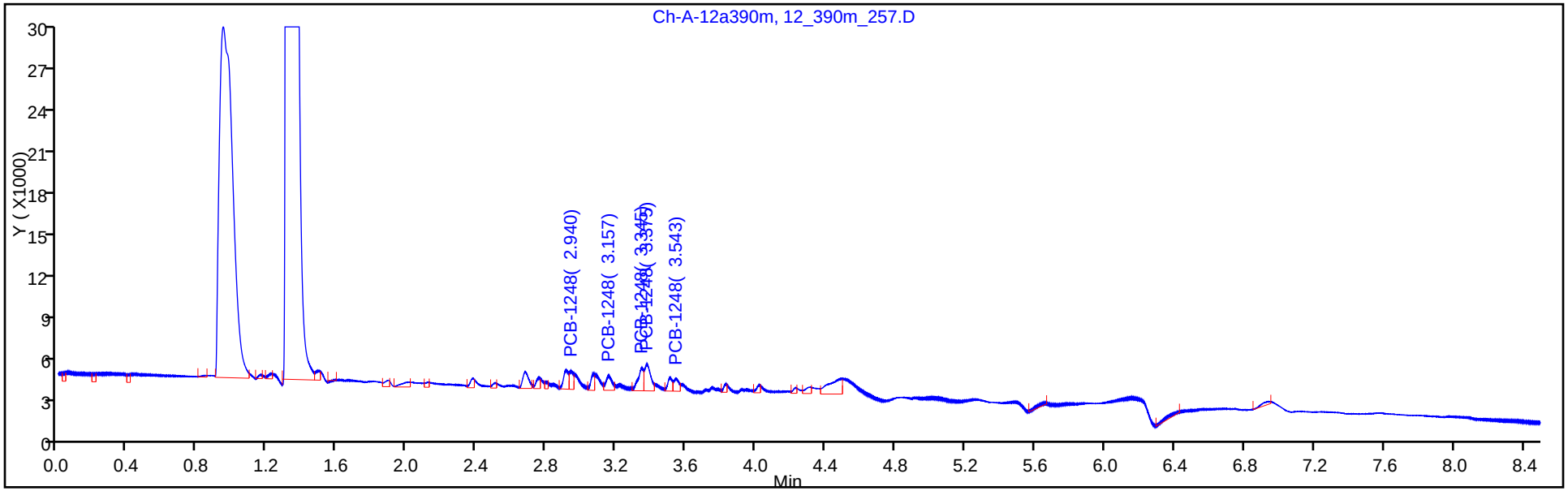
Report Date: 15-May-2017 13:44:24 Chrom Revision: 2.2 18-Apr-2017 07:43:58

TestAmerica Buffalo

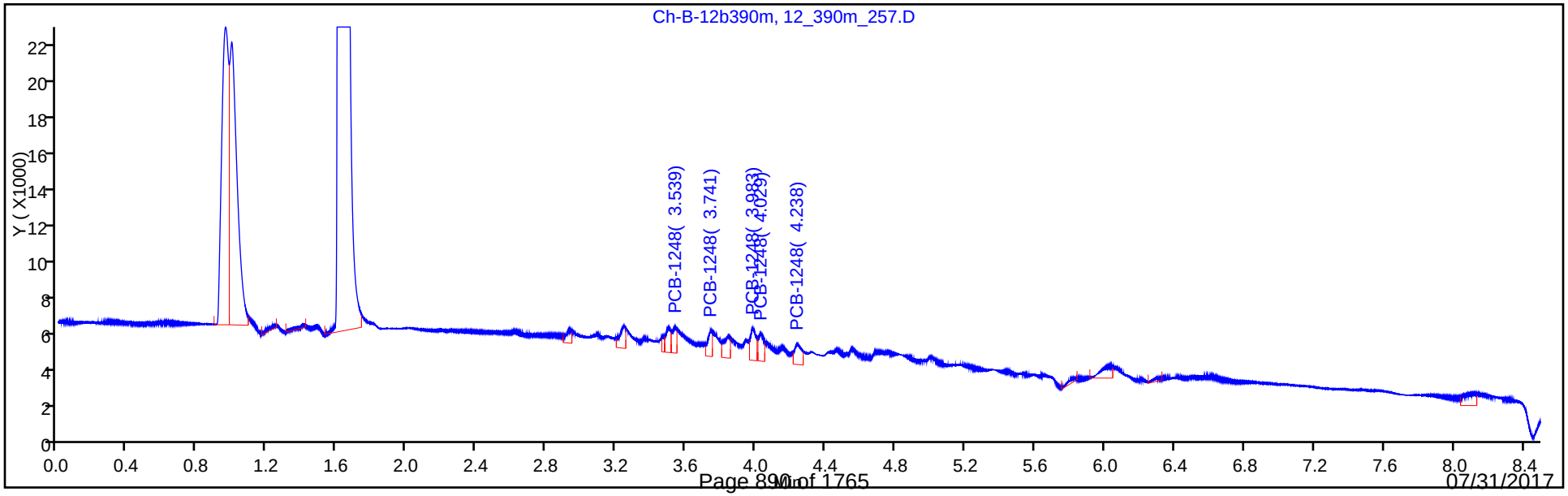
Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170513-62487.b\12_390m_257.D

Injection Date:	13-May-2017 13:35:27	Instrument ID:	HP5890-12	Operator ID:	BufTCHROM
Lims ID:	IC 1			Worklist Smp#:	10
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	5890-12 PCB IS	Limit Group:	GC - 8082A PCB IS ICAL		

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



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



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

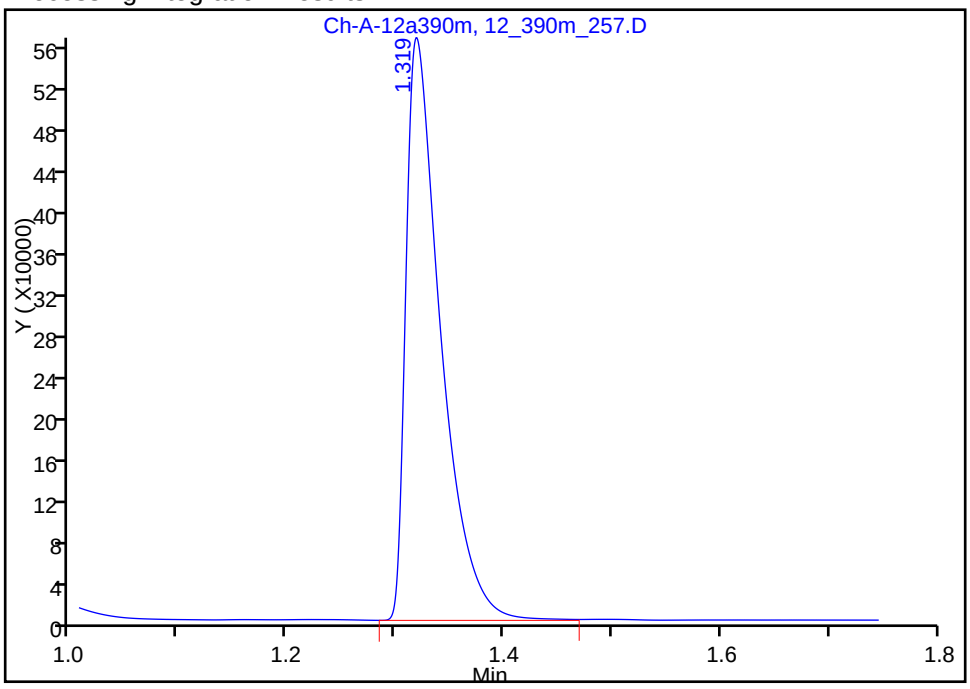
Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170513-62487.b\12_390m_257.D
Injection Date: 13-May-2017 13:35:27 Instrument ID: HP5890-12
Lims ID: IC 1
Client ID:
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 5890-12 PCB IS Limit Group: GC - 8082A PCB IS ICAL
Column: Detector Ch-A-7A136

* 1 1-Bromo-2-nitrobenzene, CAS: 577-19-5

Signal: 1

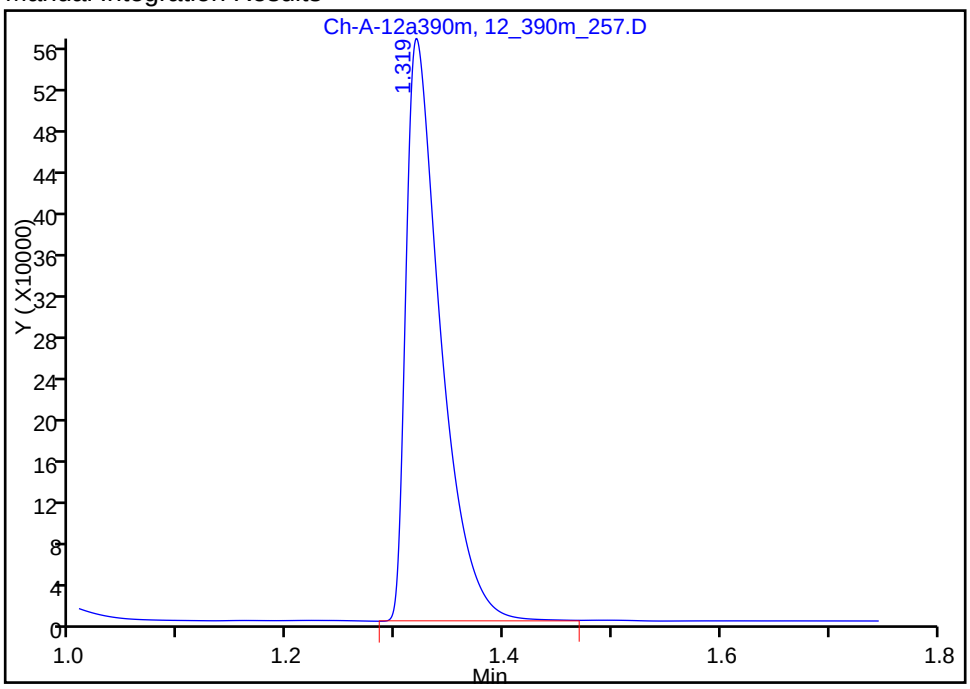
Processing Integration Results

RT: 1.32
Area: 1253537
Amount: 0.500000
Amount Units: ng/uL



Manual Integration Results

RT: 1.32
Area: 1249260
Amount: 0.500000
Amount Units: ng/uL



Reviewer: owenj, 15-May-2017 13:34:30
Audit Action: Assigned New Baseline Audit Reason: Split Peak

Report Date: 15-May-2017 13:44:24 Chrom Revision: 2.2 18-Apr-2017 07:43:58

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170513-62487.b\12_390m_257.D

Injection Date: 13-May-2017 13:35:27 Instrument ID: HP5890-12

Lims ID: IC 1

Client ID:

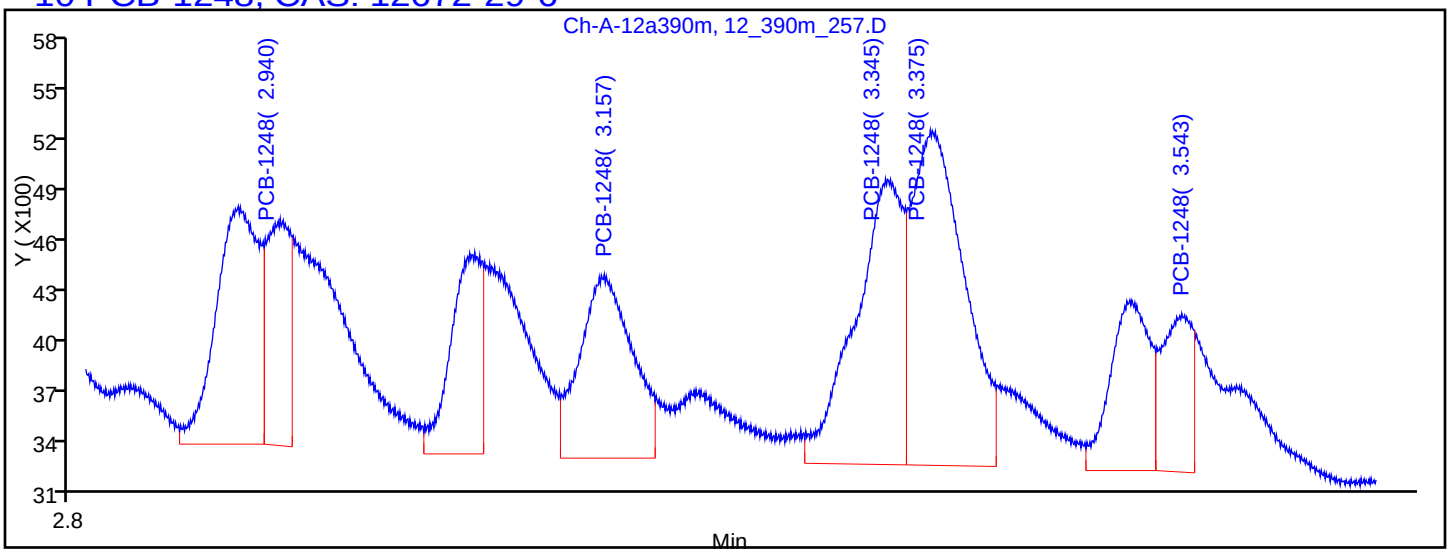
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 10

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 5890-12 PCB IS Limit Group: GC - 8082A PCB IS ICAL

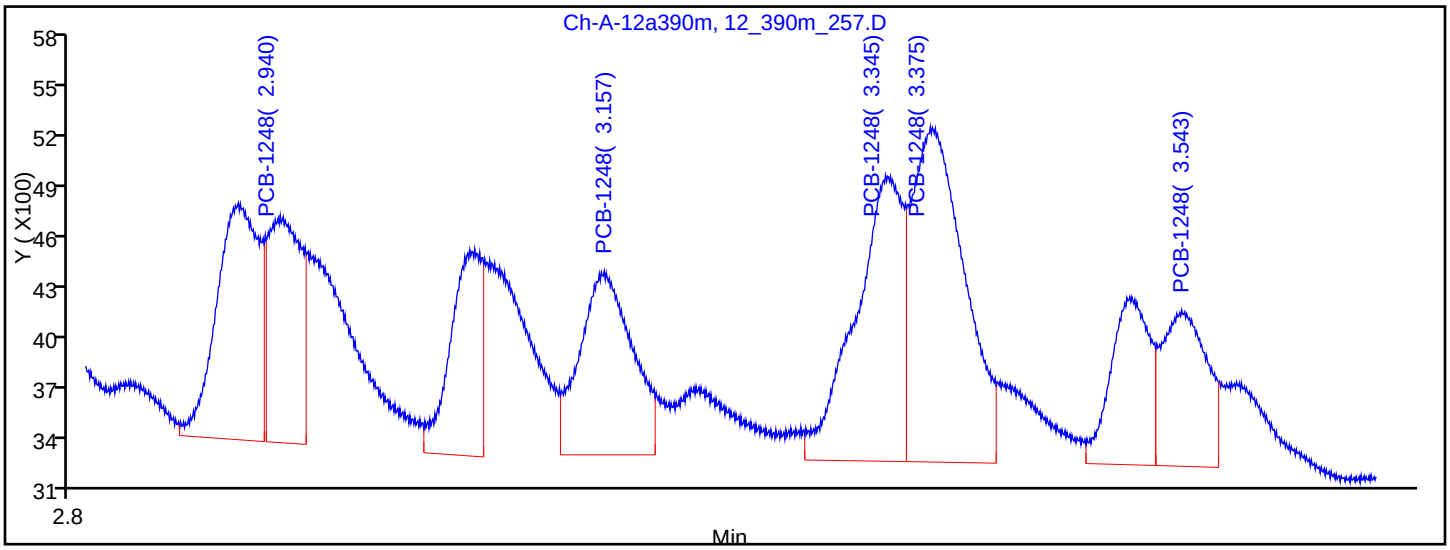
Column: Detector Ch-A-7A136

10 PCB-1248, CAS: 12672-29-6



Processing Integration Results

2.940	Response = 1359
3.157	Response = 2526
3.345	Response = 3557
3.375	Response = 4594
3.543	Response = 1243



Manual Integration Results

2.940	Response = 1900	M
3.157	Response = 2526	
3.345	Response = 3557	
3.375	Response = 4594	
3.543	Response = 1813	M

Reviewer: owenj, 15-May-2017 13:34:08

Audit Action: Assigned New Baseline Audit Reason: Split Peak

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

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1 Analy Batch No.: 357246

SDG No.:

Instrument ID: HP5890-12 GC Column: ZB-35 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/13/2017 13:04 Calibration End Date: 05/13/2017 13:35 Calibration ID: 30556

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-357246/10	12_390m_257.D
Level 2	IC 480-357246/9	12_390m_256.D
Level 3	IC 480-357246/8	12_390m_255.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3				B	M1	M2								
PCB-1248 Peak 1	0.0581	0.0318	0.0255			Lin1	0.0007	0.0262							0.9930		0.9900
PCB-1248 Peak 2	0.0557	0.0361	0.0326			Lin1	0.0005	0.0329							0.9990		0.9900
PCB-1248 Peak 3	0.0854	0.0564	0.0490			Lin1	0.0008	0.0498							0.9970		0.9900
PCB-1248 Peak 4	0.0687	0.0442	0.0411			Lin1	0.0006	0.0412							1.0000		0.9900
PCB-1248 Peak 5	0.0729	0.0529	0.0494			Lin1	0.0005	0.0497							0.9990		0.9900

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

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

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1 Analy Batch No.: 357246

SDG No.:

Instrument ID: HP5890-12 GC Column: ZB-35 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/13/2017 13:04 Calibration End Date: 05/13/2017 13:35 Calibration ID: 30556

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-357246/10	12_390m_257.D
Level 2	IC 480-357246/9	12_390m_256.D
Level 3	IC 480-357246/8	12_390m_255.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1	LVL 2	LVL 3			LVL 1	LVL 2	LVL 3		
PCB-1248 Peak 1	BNB	Lin1	2510	28873	93778			0.0200	0.500	2.00		
PCB-1248 Peak 2	BNB	Lin1	2406	32764	119745			0.0200	0.500	2.00		
PCB-1248 Peak 3	BNB	Lin1	3692	51166	179818			0.0200	0.500	2.00		
PCB-1248 Peak 4	BNB	Lin1	2970	40094	150933			0.0200	0.500	2.00		
PCB-1248 Peak 5	BNB	Lin1	3151	48012	181538			0.0200	0.500	2.00		

Curve Type Legend:
Lin1 = Linear 1/conc ISTD

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170513-62487.b\12_390m_255.D
Lims ID: IC 3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 13-May-2017 13:04:43 ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP5890-12
Sublist: chrom-5890-12 PCB IS*sub5

Method: \\ChromNA\Buffalo\ChromData\HP5890-12\20170513-62487.b\5890-12 PCB IS.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 15-May-2017 13:44:19 Calib Date: 13-May-2017 13:35:27
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170513-62487.b\12_390m_257.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK026

First Level Reviewer: owenj Date: 15-May-2017 13:20:00

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.319	1.321	-0.002	999992	0.5000	0.5000	
2	1.616	1.618	-0.002	917891	0.5000	0.5000	
						RPD = 0.00	
10 PCB-1248							M
1	2.940	2.940	0.000	95422	2.00	1.98	M
1	3.154	3.157	-0.003	192298	2.00	1.89	M
1	3.341	3.345	-0.004	238393	2.00	1.98	M
1	3.372	3.375	-0.003	388398	2.00	1.94	M
1	3.541	3.543	-0.002	133165	2.00	1.95	M
		Average of Peak Amounts =				1.95	
2	3.535	3.539	-0.004	93778	2.00	1.92	M
2	3.737	3.741	-0.004	119745	2.00	1.97	
2	3.979	3.983	-0.004	179818	2.00	1.95	a
2	4.026	4.029	-0.003	150933	2.00	1.98	a
2	4.235	4.238	-0.003	181538	2.00	1.98	
		Average of Peak Amounts =				1.96	
						RPD = 0.74	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

1248w/IS@ 2.0_00005 Amount Added: 1.00 Units: mL

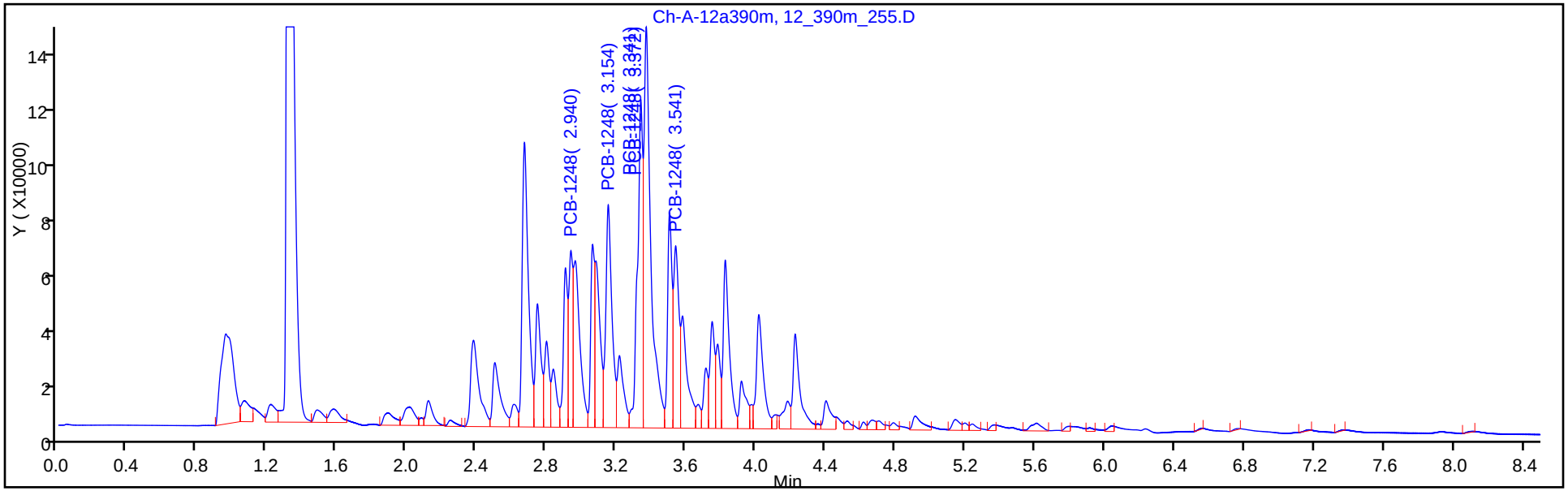
Report Date: 15-May-2017 13:44:19 Chrom Revision: 2.2 18-Apr-2017 07:43:58

TestAmerica Buffalo

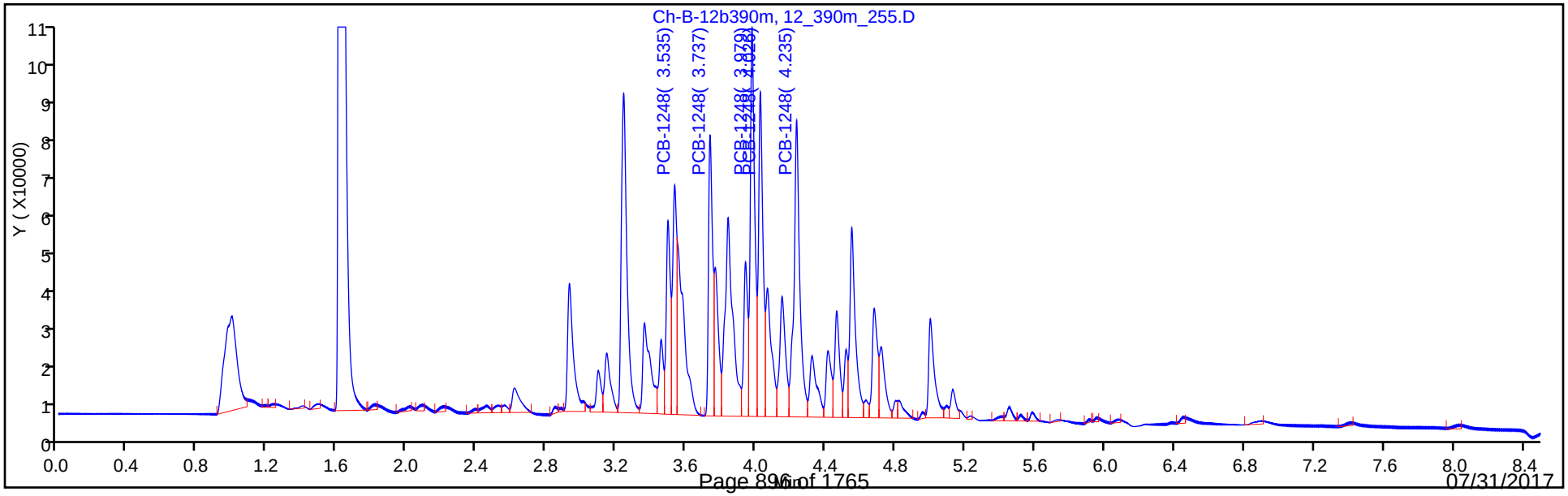
Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170513-62487.b\12_390m_255.D

Injection Date:	13-May-2017 13:04:43	Instrument ID:	HP5890-12	Operator ID:	BufTCHROM
Lims ID:	IC 3			Worklist Smp#:	8
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	5890-12 PCB IS	Limit Group:	GC - 8082A PCB IS ICAL		

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



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



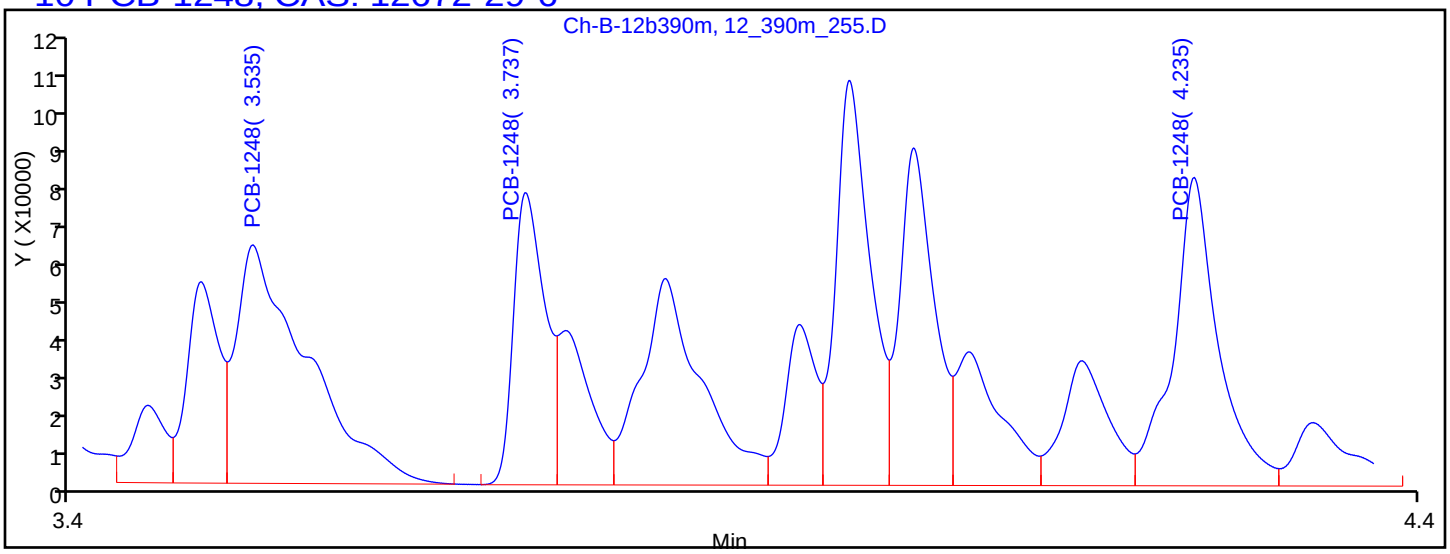
Report Date: 15-May-2017 13:44:20 Chrom Revision: 2.2 18-Apr-2017 07:43:58

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170513-62487.b\12_390m_255.D

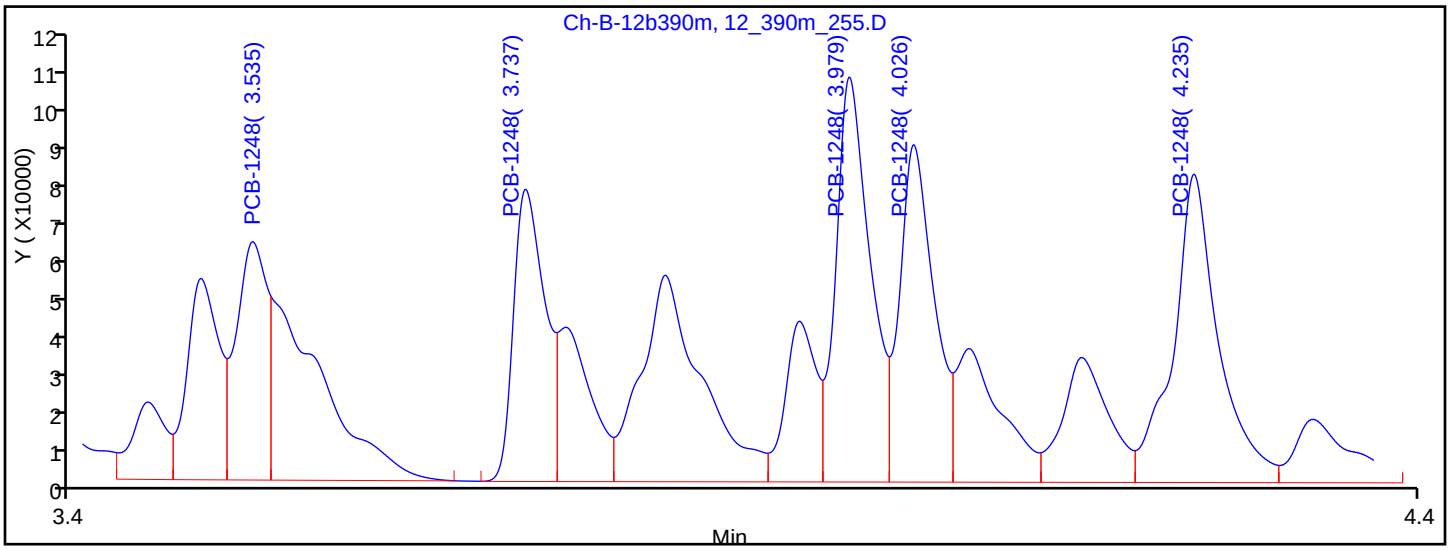
Injection Date:	13-May-2017 13:04:43	Instrument ID:	HP5890-12		
Lims ID:	IC 3				
Client ID:					
Operator ID:	BufTCHROM	ALS Bottle#:	0	Worklist Smp#:	8
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	5890-12 PCB IS	Limit Group:	GC - 8082A PCB IS ICAL		
Column:		Detector	Ch-B-7b136		

10 PCB-1248, CAS: 12672-29-6



Processing Integration Results

3.535	Response = 218932
3.737	Response = 119745
3.842	Response = 163201
3.979	Response = 179818
4.235	Response = 181538



Manual Integration Results

3.535	Response = 93778	M
3.737	Response = 119745	
3.979	Response = 179818	M
4.026	Response = 150933	M
4.235	Response = 181538	

Reviewer: owenj, 15-May-2017 13:40:28

Audit Action: Split an Integrated Peak Audit Reason: Split Peak

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170513-62487.b\12_390m_256.D
Lims ID: IC 2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 13-May-2017 13:20:03 ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP5890-12
Sublist: chrom-5890-12 PCB IS*sub5

Method: \\ChromNA\Buffalo\ChromData\HP5890-12\20170513-62487.b\5890-12 PCB IS.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 15-May-2017 13:44:21 Calib Date: 13-May-2017 13:35:27
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170513-62487.b\12_390m_257.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK026

First Level Reviewer: owenj Date: 15-May-2017 13:20:30

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.319	1.321	-0.002	978936	0.5000	0.5000	
2	1.616	1.618	-0.002	907939	0.5000	0.5000	
						RPD = 0.00	
10 PCB-1248							M
1	2.941	2.940	0.001	24981	0.5000	0.5205	M
1	3.157	3.157	0.000	52994	0.5000	0.5316	
1	3.343	3.345	-0.002	62236	0.5000	0.5239	
1	3.375	3.375	0.000	111348	0.5000	0.5666	
1	3.543	3.543	0.000	37302	0.5000	0.5550	
		Average of Peak Amounts =				0.5395	
2	3.537	3.539	-0.002	28873	0.5000	0.5800	M
2	3.741	3.741	0.000	32764	0.5000	0.5335	M
2	3.981	3.983	-0.002	51166	0.5000	0.5501	a
2	4.029	4.029	0.000	40094	0.5000	0.5213	a
2	4.237	4.238	-0.001	48012	0.5000	0.5218	
		Average of Peak Amounts =				0.5413	
						RPD = 0.34	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

1248w/IS@ 0.5_00008 Amount Added: 1.00 Units: mL

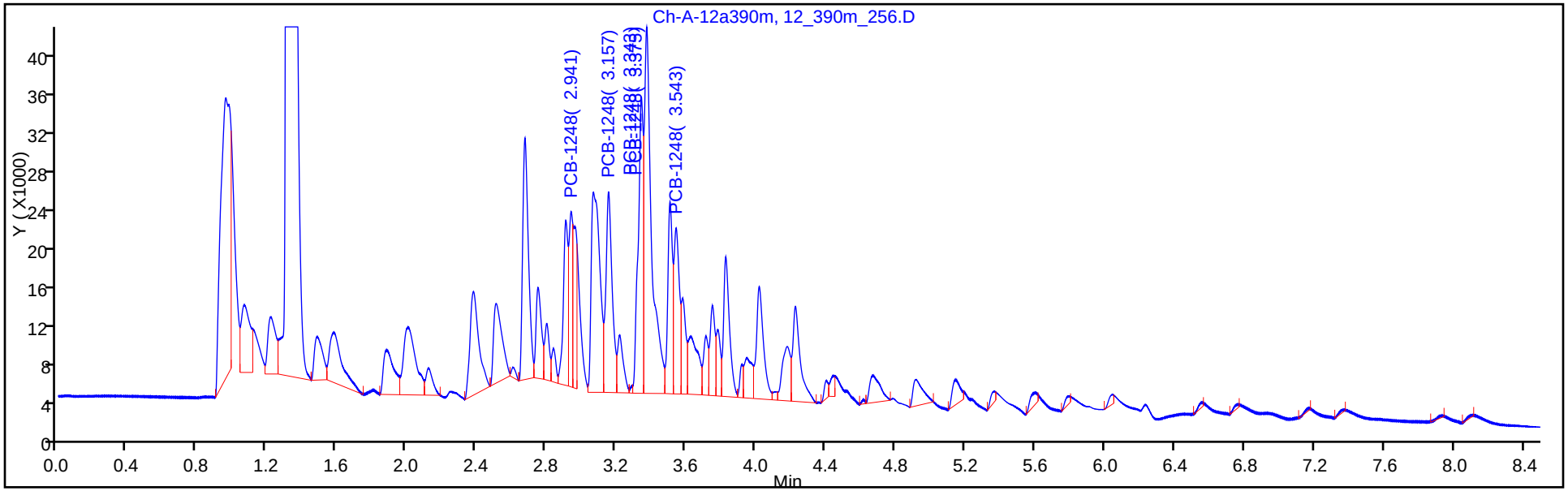
Report Date: 15-May-2017 13:44:22 Chrom Revision: 2.2 18-Apr-2017 07:43:58

TestAmerica Buffalo

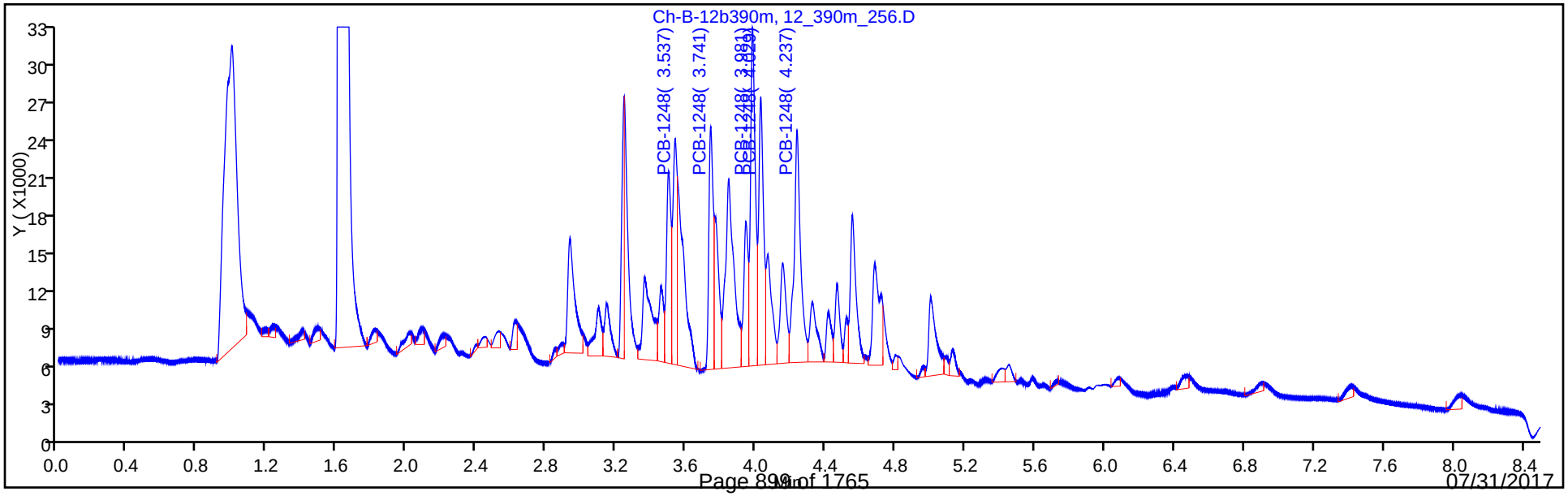
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Injection Date:	13-May-2017 13:20:03	Instrument ID:	HP5890-12	Operator ID:	BufTCHROM
Lims ID:	IC 2			Worklist Smp#:	9
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	5890-12 PCB IS	Limit Group:	GC - 8082A PCB IS ICAL		

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



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



Report Date: 15-May-2017 13:44:22 Chrom Revision: 2.2 18-Apr-2017 07:43:58

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170513-62487.b\12_390m_256.D

Injection Date: 13-May-2017 13:20:03 Instrument ID: HP5890-12

Lims ID: IC 2

Client ID:

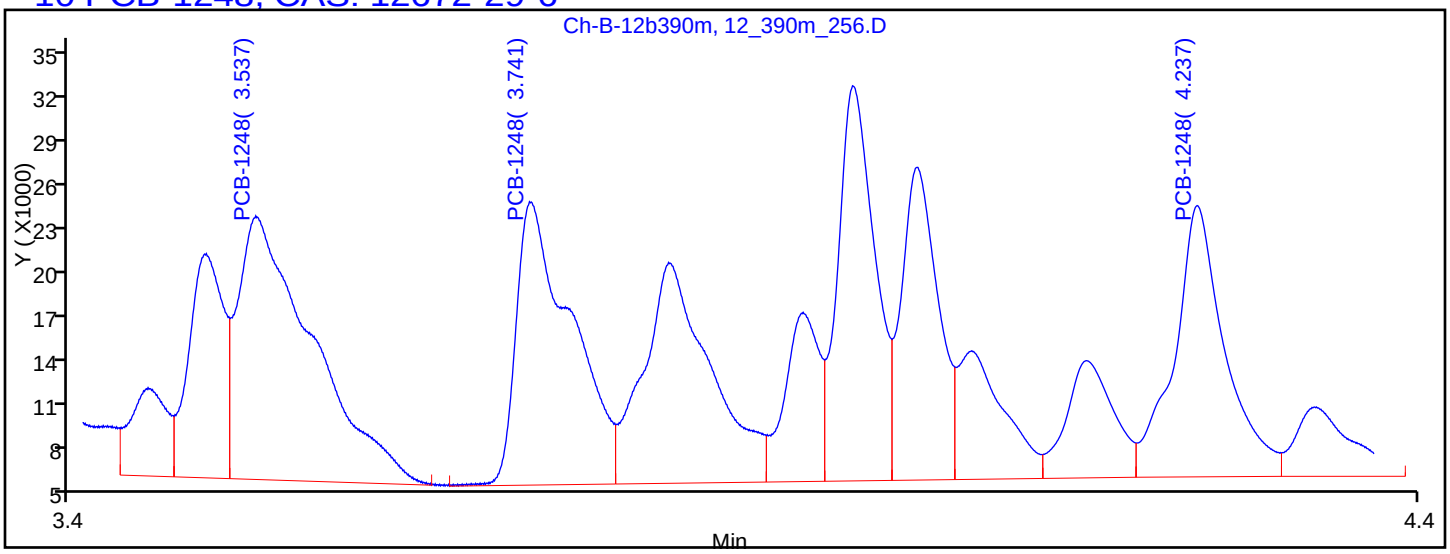
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 9

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 5890-12 PCB IS Limit Group: GC - 8082A PCB IS ICAL

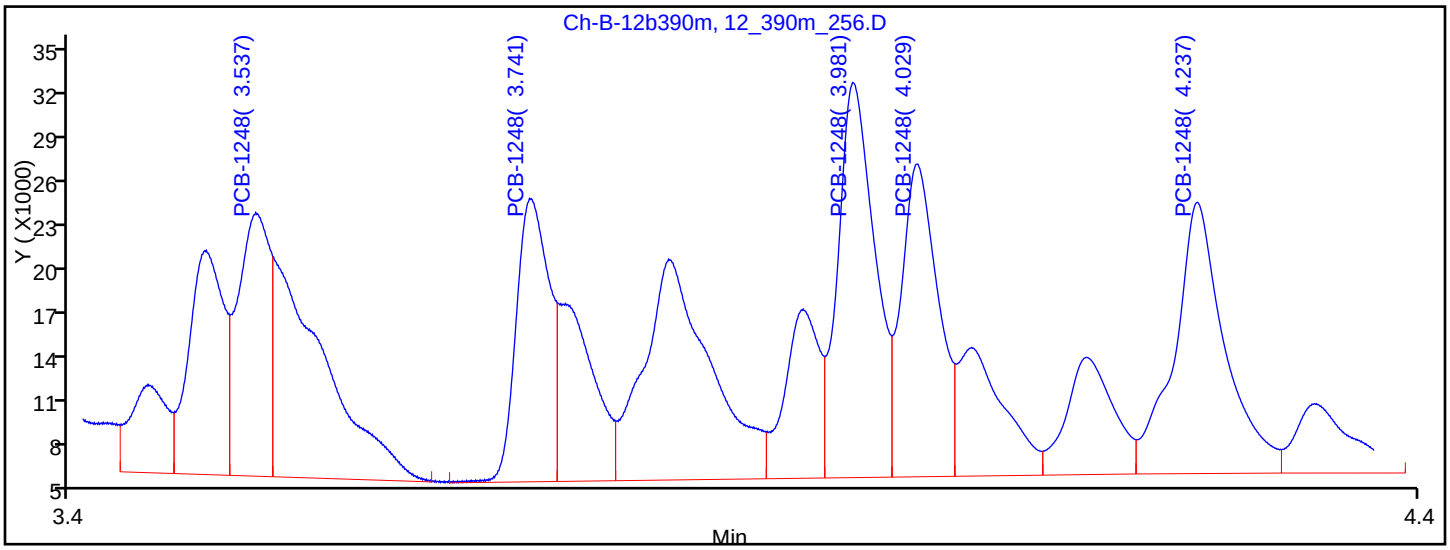
Column: Detector Ch-B-7b136

10 PCB-1248, CAS: 12672-29-6



Processing Integration Results

3.537	Response = 68838
3.741	Response = 54957
3.844	Response = 51800
3.981	Response = 51166
4.237	Response = 48012



Manual Integration Results

3.537	Response = 28873	M
3.741	Response = 32764	M
3.981	Response = 51166	M
4.029	Response = 40094	M
4.237	Response = 48012	

Reviewer: owenj, 15-May-2017 13:36:47

Audit Action: Split an Integrated Peak Audit Reason: Split Peak

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170513-62487.b\12_390m_257.D
Lims ID: IC 1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 13-May-2017 13:35:27 ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP5890-12
Sublist: chrom-5890-12 PCB IS*sub5

Method: \\ChromNA\Buffalo\ChromData\HP5890-12\20170513-62487.b\5890-12 PCB IS.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 15-May-2017 13:44:24 Calib Date: 13-May-2017 13:35:27
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170513-62487.b\12_390m_257.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK026

First Level Reviewer: owenj Date: 15-May-2017 13:21:37

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							M
1	1.319	1.319	0.000	1249260	0.5000	0.5000	M
2	1.617	1.617	0.000	1080655	0.5000	0.5000	
						RPD = 0.00	
10 PCB-1248							M
1	2.940	2.940	0.000	1900	0.0200	0.0194	M
1	3.157	3.157	0.000	2526	0.0200	0.0199	
1	3.345	3.345	0.000	3557	0.0200	0.0193	
1	3.375	3.375	0.000	4594	0.0200	0.0180	
1	3.543	3.543	0.000	1813	0.0200	0.0183	M
		Average of Peak Amounts =				0.0190	
2	3.539	3.539	0.000	2510	0.0200	0.0176	M
2	3.741	3.741	0.000	2406	0.0200	0.0190	M
2	3.983	3.983	0.000	3692	0.0200	0.0185	M
2	4.029	4.029	0.000	2970	0.0200	0.0194	M
2	4.238	4.238	0.000	3151	0.0200	0.0193	M
		Average of Peak Amounts =				0.0187	
						RPD = 1.16	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

1248w/IS@ .02_00005 Amount Added: 1.00 Units: mL

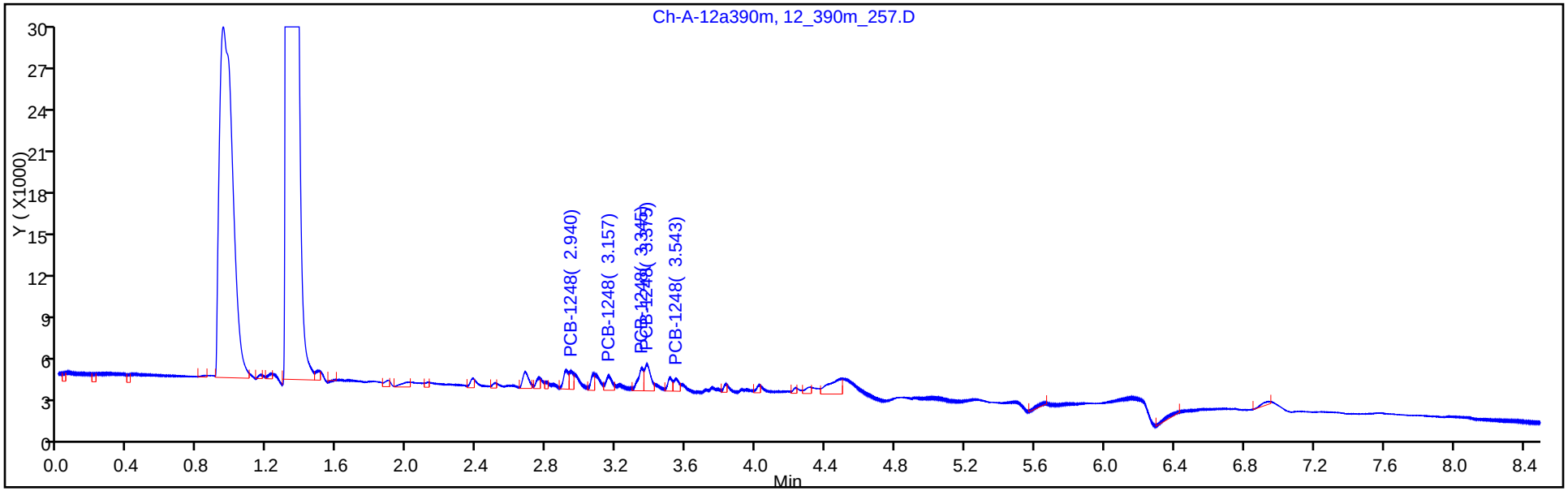
Report Date: 15-May-2017 13:44:24 Chrom Revision: 2.2 18-Apr-2017 07:43:58

TestAmerica Buffalo

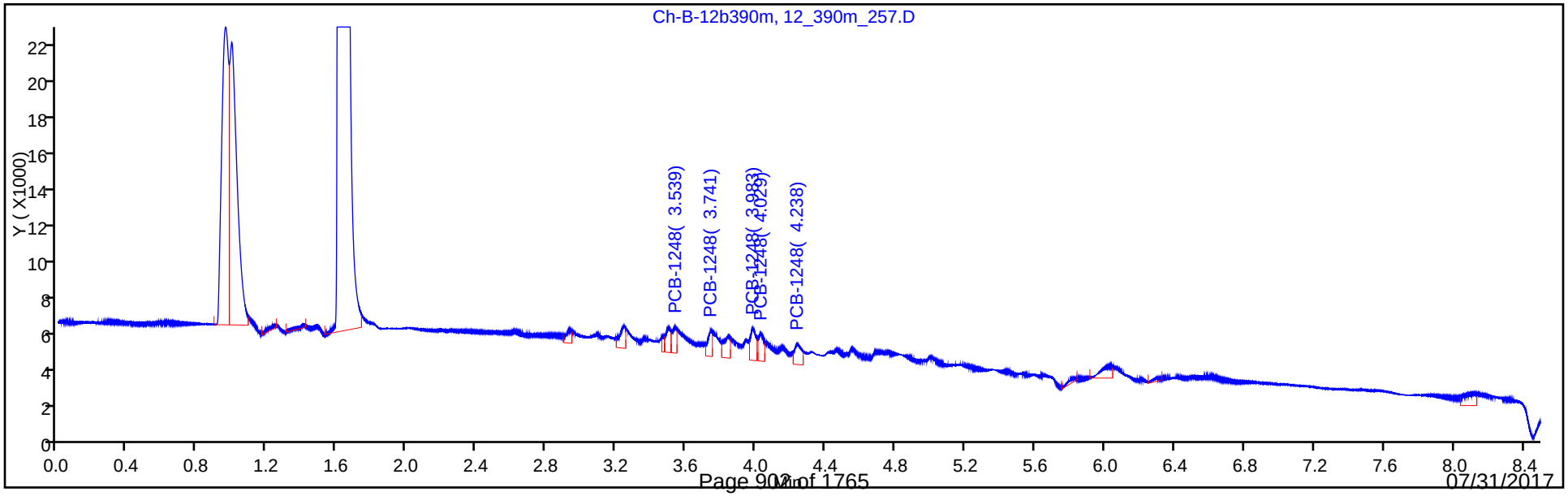
Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170513-62487.b\12_390m_257.D

Injection Date:	13-May-2017 13:35:27	Instrument ID:	HP5890-12	Operator ID:	BufTCHROM
Lims ID:	IC 1			Worklist Smp#:	10
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	5890-12 PCB IS	Limit Group:	GC - 8082A PCB IS ICAL		

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



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



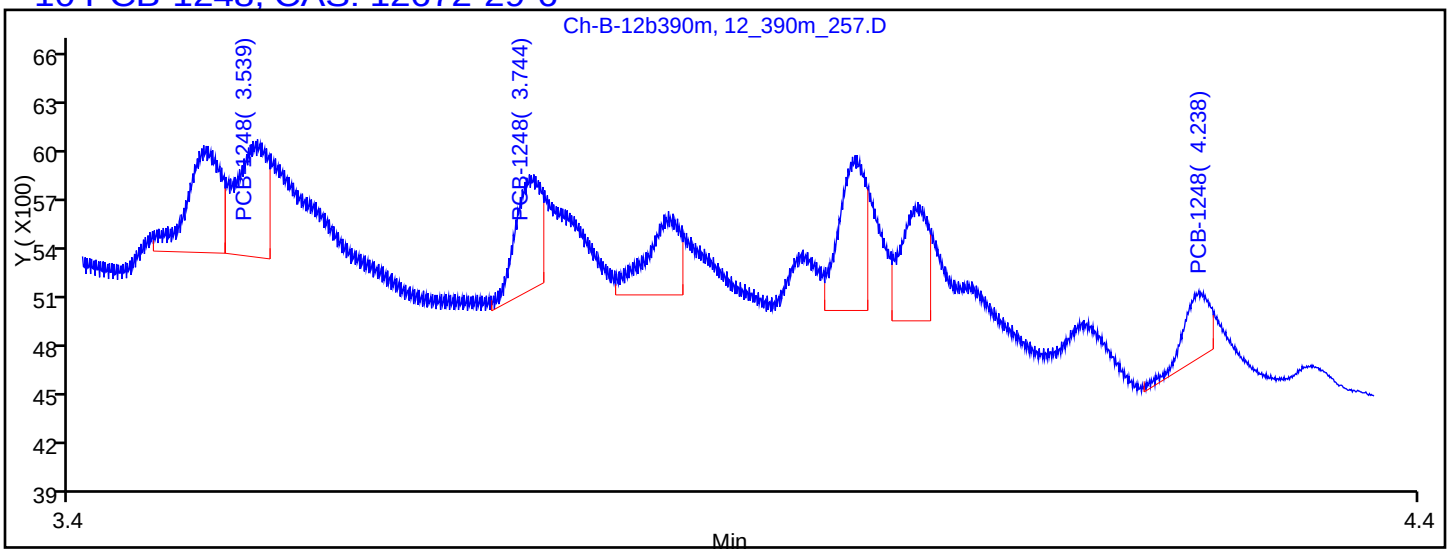
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TestAmerica Buffalo

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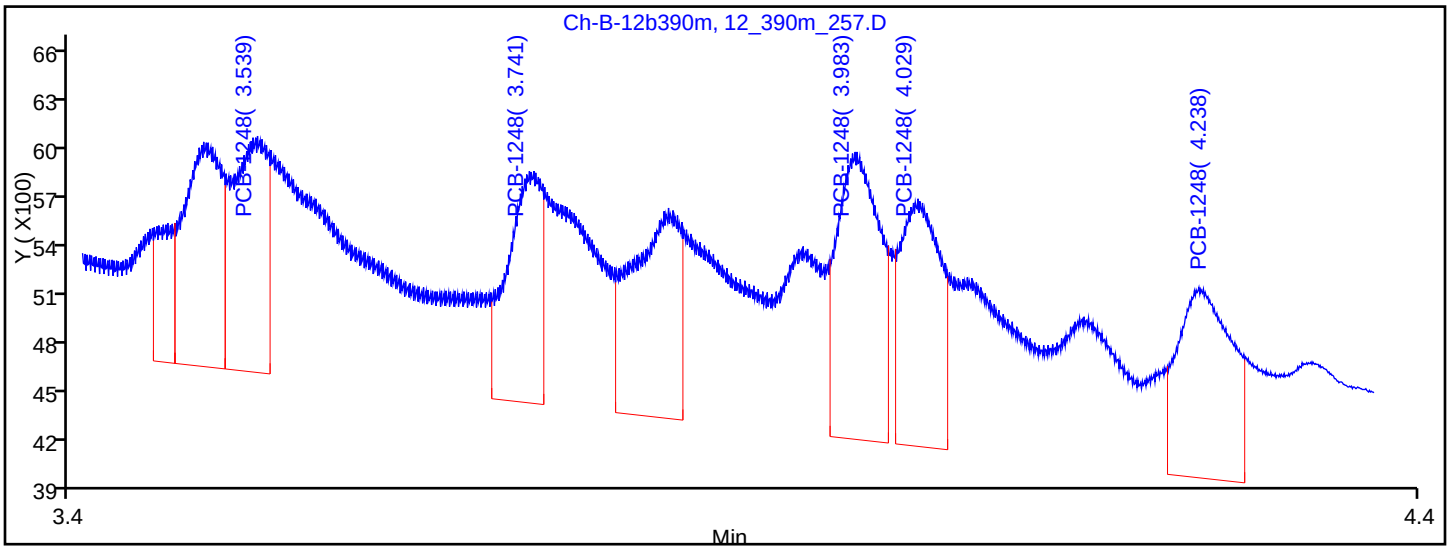
Injection Date:	13-May-2017 13:35:27	Instrument ID:	HP5890-12		
Lims ID:	IC 1				
Client ID:					
Operator ID:	BufTCHROM	ALS Bottle#:	0	Worklist Smp#:	10
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	5890-12 PCB IS	Limit Group:	GC - 8082A PCB IS ICAL		
Column:		Detector	Ch-B-7b136		

10 PCB-1248, CAS: 12672-29-6



Processing Integration Results

3.539	Response = 1092
3.744	Response = 906
3.844	Response = 802
3.984	Response = 1210
4.238	Response = 543



Manual Integration Results

3.539	Response = 2510	M
3.741	Response = 2406	M
3.983	Response = 3692	M
4.029	Response = 2970	M
4.238	Response = 3151	M

Reviewer: owenj, 15-May-2017 13:39:10

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1

SDG No.:

Lab Sample ID: CCVIS 480-367887/4 Calibration Date: 07/20/2017 10:25

Instrument ID: HP5890-12 Calib Start Date: 05/11/2017 15:46

GC Column: ZB-5 ID: 0.53(mm) Calib End Date: 05/11/2017 18:19

Lab File ID: 12_394m_243.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Ave	0.0272	0.0306		0.562	0.500	12.4	20.0
PCB-1016 Peak 2	Ave	0.0290	0.0342		0.590	0.500	18.0	20.0
PCB-1016 Peak 3	Ave	0.0988	0.1095		0.554	0.500	10.9	20.0
PCB-1016 Peak 4	Lin1		0.0471		0.614	0.500	22.8*	20.0
PCB-1016 Peak 5	Lin1		0.0277		0.583	0.500	16.6	20.0
PCB-1260 Peak 1	Lin1		0.0623		0.545	0.500	9.0	20.0
PCB-1260 Peak 2	Lin1		0.0867		0.561	0.500	12.2	20.0
PCB-1260 Peak 3	Ave	0.0437	0.0468		0.535	0.500	7.0	20.0
PCB-1260 Peak 4	Lin1		0.0353		0.486	0.500	-2.9	20.0
PCB-1260 Peak 5	Lin1		0.0466		0.469	0.500	-6.3	20.0
Tetrachloro-m-xylene	Lin1		1.122		0.0140	0.0125	11.8	20.0
DCB Decachlorobiphenyl	Ave	1.313	1.185		0.0113	0.0125	-9.7	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1

SDG No.:

Lab Sample ID: CCVIS 480-367887/4 Calibration Date: 07/20/2017 10:25

Instrument ID: HP5890-12 Calib Start Date: 05/11/2017 15:46

GC Column: ZB-5 ID: 0.53(mm) Calib End Date: 05/11/2017 18:19

Lab File ID: 12_394m_243.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	2.04	2.01	2.07
PCB-1016 Peak 2	2.41	2.38	2.44
PCB-1016 Peak 3	2.58	2.55	2.61
PCB-1016 Peak 4	2.65	2.62	2.68
PCB-1016 Peak 5	2.71	2.68	2.74
PCB-1260 Peak 1	4.08	4.05	4.11
PCB-1260 Peak 2	4.29	4.26	4.32
PCB-1260 Peak 3	4.42	4.39	4.45
PCB-1260 Peak 4	4.60	4.57	4.63
PCB-1260 Peak 5	5.03	5.00	5.06
Tetrachloro-m-xylene	1.84	1.81	1.87
DCB Decachlorobiphenyl	6.04	6.01	6.07

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170720-64197.b\12_394m_243.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 20-Jul-2017 10:25:27 ALS Bottle#: 0 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP5890-12
Sublist: chrom-5890-12 PCB IS*sub1

Method: \\ChromNA\Buffalo\ChromData\HP5890-12\20170720-64197.b\5890-12 PCB IS.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 20-Jul-2017 14:50:56 Calib Date: 13-May-2017 13:35:27
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170513-62487.b\12_390m_257.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK026

First Level Reviewer: owenj Date: 20-Jul-2017 11:27:28

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.259	1.259	0.000	1245198	0.5000	0.5000	
2	1.546	1.546	0.000	1084909	0.5000	0.5000	
						RPD = 0.00	
$ 6 Tetrachloro-m-xylene							M
1	1.838	1.838	0.000	34915	0.0125	0.0140	M
2	2.125	2.125	0.000	26465	0.0125	0.0136	
						RPD = 2.41	
9 PCB-1016							M
1	2.039	2.039	0.000	38056	0.5000	0.5619	M
1	2.410	2.410	0.000	42547	0.5000	0.5899	M
1	2.583	2.583	0.000	136340	0.5000	0.5543	M
1	2.654	2.654	0.000	58610	0.5000	0.6140	M
1	2.706	2.706	0.000	34462	0.5000	0.5832	M
		Average of Peak Amounts =				0.5806	
2	2.525	2.525	0.000	27242	0.5000	0.6122	
2	2.840	2.840	0.000	51250	0.5000	0.5614	
2	3.049	3.049	0.000	35071	0.5000	0.6225	
2	3.147	3.147	0.000	111842	0.5000	0.6397	
2	3.266	3.266	0.000	46249	0.5000	0.6364	
		Average of Peak Amounts =				0.6144	
						RPD = 5.65	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
12 PCB-1260							M
1	4.075	4.075	0.000	77560	0.5000	0.5450	M
1	4.291	4.291	0.000	107910	0.5000	0.5610	M
1	4.415	4.415	0.000	58279	0.5000	0.5350	M
1	4.597	4.597	0.000	43932	0.5000	0.4856	M
1	5.030	5.030	0.000	58023	0.5000	0.4687	
		Average of Peak Amounts =				0.5191	
2	5.019	5.019	0.000	58385	0.5000	0.5130	
2	5.338	5.338	0.000	41506	0.5000	0.4357	
2	5.405	5.405	0.000	31726	0.5000	0.4448	
2	5.471	5.471	0.000	112395	0.5000	0.4454	
2	5.829	5.829	0.000	69299	0.5000	0.4186	
		Average of Peak Amounts =				0.4515	
						RPD = 13.93	
2 1260 Res 1							
1	5.030	5.030	0.000	58023	NC	NC	
2	5.338	5.338	0.000	41506	NC	NC	
4 1260 Res 2							
1	5.087	5.087	0.000	32012	NC	NC	
2	5.405	5.405	0.000	31726	NC	NC	
3 1260 Res 3							
1	5.128	5.128	0.000	46865	NC	NC	
2	5.471	5.471	0.000	112395	NC	NC	
$ 15 DCB Decachlorobiphenyl							
1	6.042	6.042	0.000	36893	0.0125	0.0113	
2	7.051	7.051	0.000	35193	0.0125	0.0120	
						RPD = 6.44	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

1660sur/is0.5_00007 Amount Added: 1.00 Units: ml

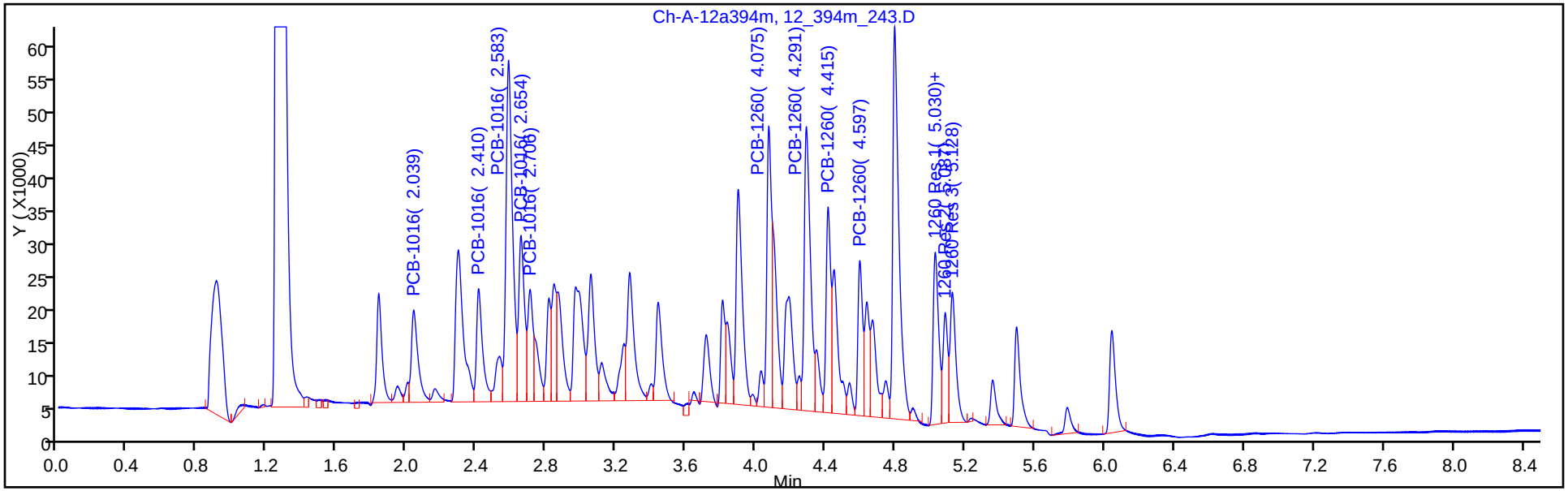
Report Date: 20-Jul-2017 14:50:57 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

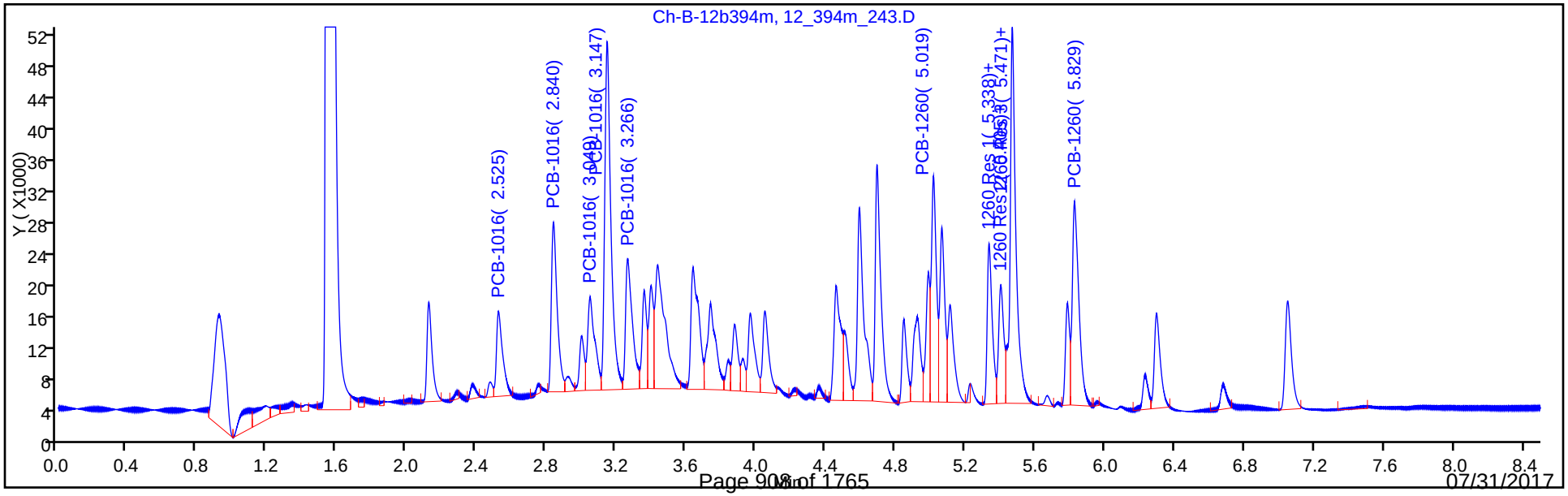
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Injection Date:	20-Jul-2017 10:25:27	Instrument ID:	HP5890-12	Operator ID:	BufTCHROM
Lims ID:	CCVIS			Worklist Smp#:	4
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	5890-12 PCB IS	Limit Group:	GC - 8082A PCB IS ICAL		

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



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



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

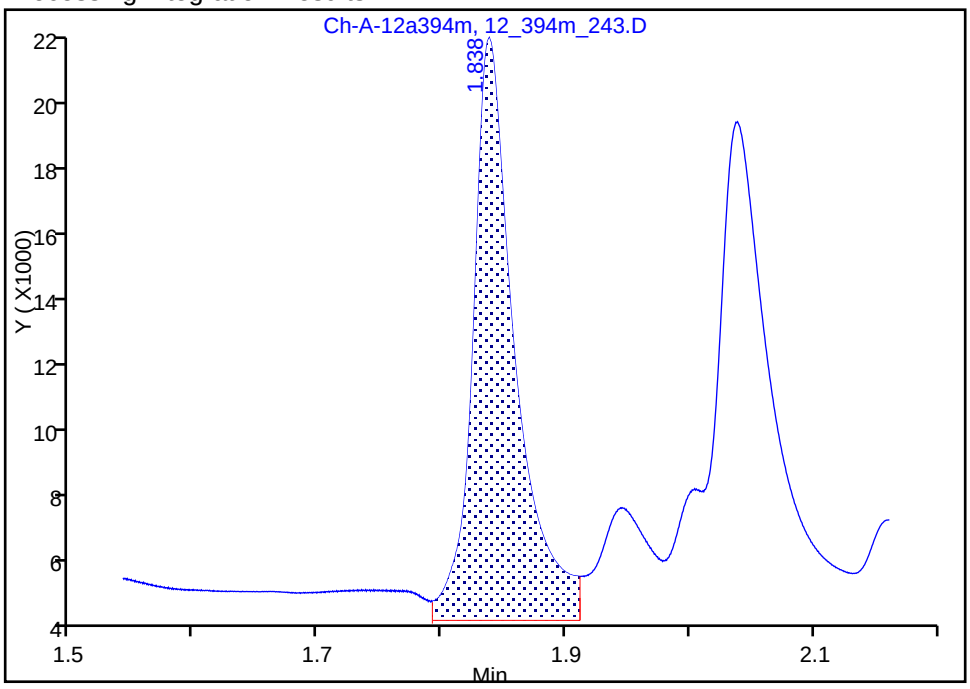
Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170720-64197.b\12_394m_243.D
Injection Date: 20-Jul-2017 10:25:27 Instrument ID: HP5890-12
Lims ID: CCVIS
Client ID:
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 5890-12 PCB IS Limit Group: GC - 8082A PCB IS ICAL
Column: Detector Ch-A-7A136

$ 6 Tetrachloro-m-xylene, CAS: 877-09-8

Signal: 1

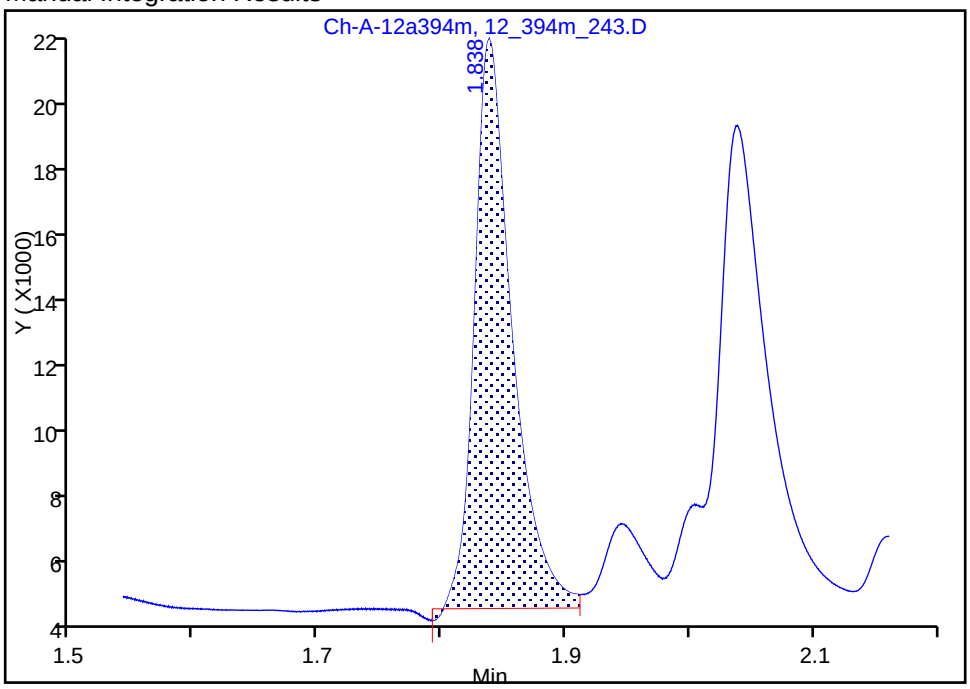
Processing Integration Results

RT: 1.84
Area: 41492
Amount: 0.016576
Amount Units: ng/uL



Manual Integration Results

RT: 1.84
Area: 34915
Amount: 0.013977
Amount Units: ng/uL



Reviewer: owenj, 20-Jul-2017 11:27:06
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

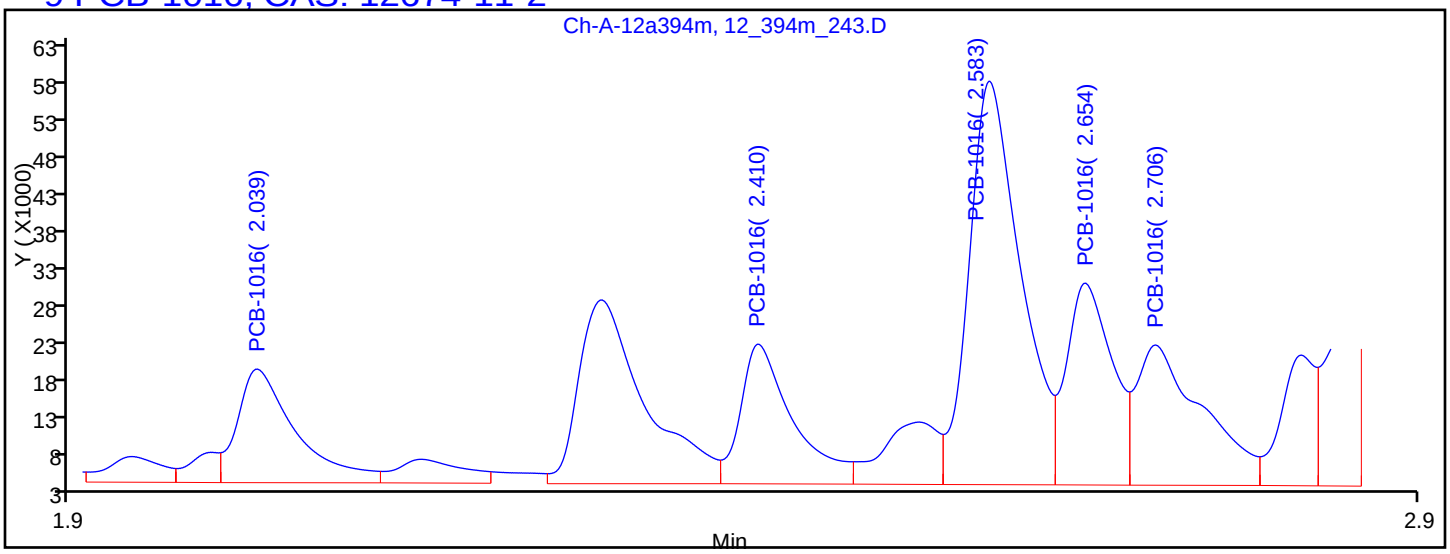
Report Date: 20-Jul-2017 14:50:57 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170720-64197.b\12_394m_243.D

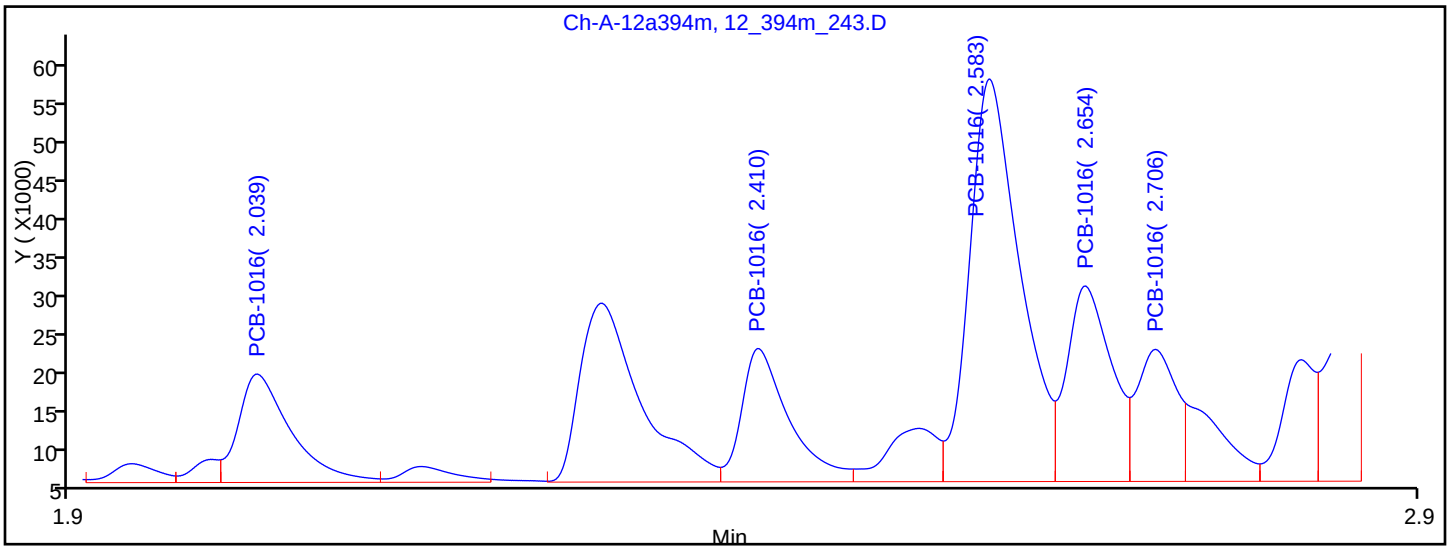
Injection Date:	20-Jul-2017 10:25:27	Instrument ID:	HP5890-12		
Lims ID:	CCVIS				
Client ID:					
Operator ID:	BufTCHROM	ALS Bottle#:	0	Worklist Smp#:	4
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	5890-12 PCB IS	Limit Group:	GC - 8082A PCB IS ICAL		
Column:		Detector	Ch-A-7A136		

9 PCB-1016, CAS: 12674-11-2



Processing Integration Results

2.039	Response = 45536
2.410	Response = 50134
2.583	Response = 143418
2.654	Response = 63499
2.706	Response = 63664



Manual Integration Results

2.039	Response = 38056	M
2.410	Response = 42547	M
2.583	Response = 136340	M
2.654	Response = 58610	M
2.706	Response = 34462	M

Reviewer: owenj, 20-Jul-2017 11:27:06

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Report Date: 20-Jul-2017 14:50:58 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170720-64197.b\12_394m_243.D

Injection Date: 20-Jul-2017 10:25:27 Instrument ID: HP5890-12

Lims ID: CCVIS

Client ID:

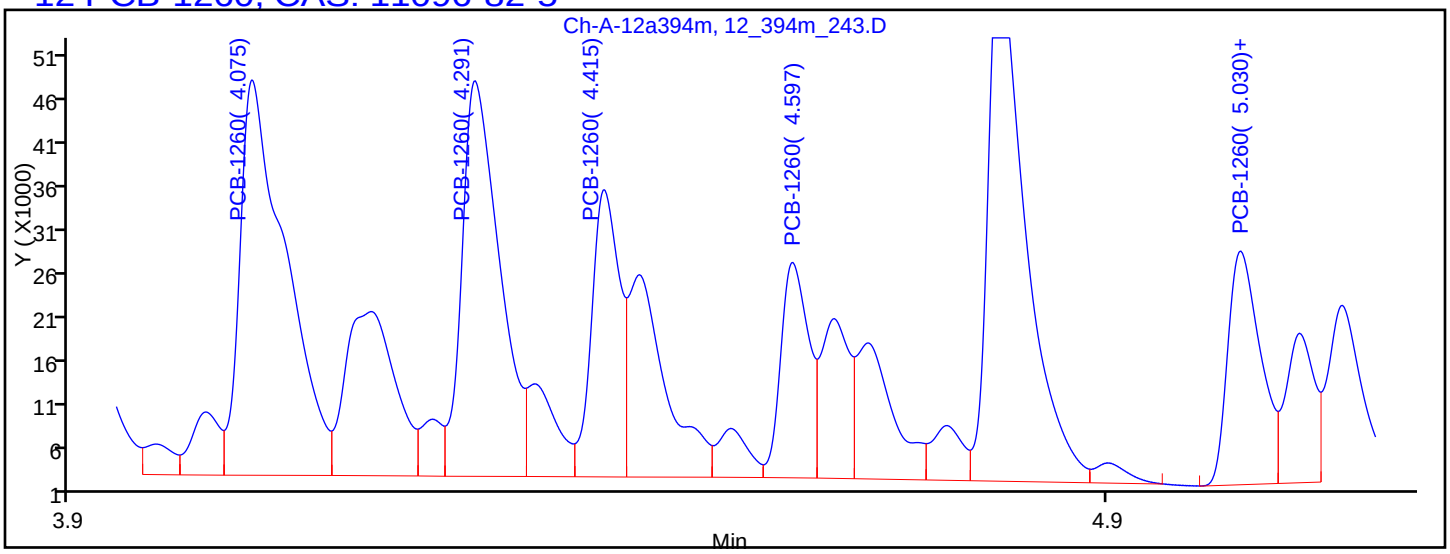
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 4

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 5890-12 PCB IS Limit Group: GC - 8082A PCB IS ICAL

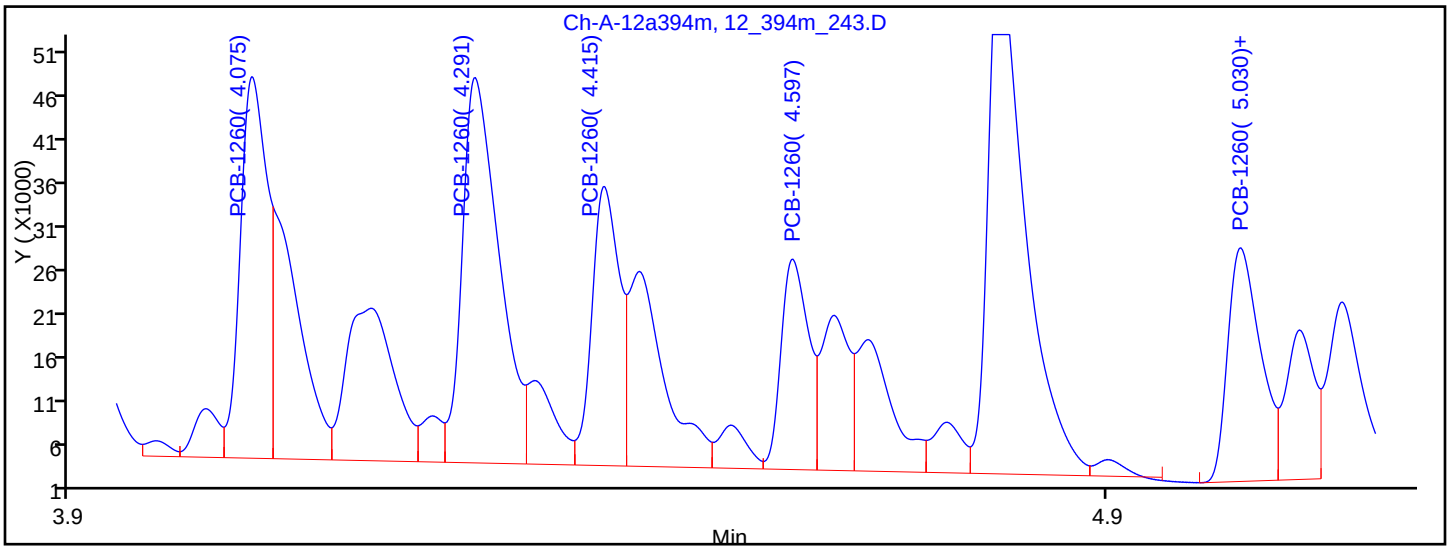
Column: Detector Ch-A-7A136

12 PCB-1260, CAS: 11096-82-5



Processing Integration Results

4.075	Response = 137713
4.291	Response = 113194
4.415	Response = 61000
4.597	Response = 45687
5.030	Response = 58023



Manual Integration Results

4.075	Response = 77560	M
4.291	Response = 107910	M
4.415	Response = 58279	M
4.597	Response = 43932	M
5.030	Response = 58023	

Reviewer: owenj, 20-Jul-2017 11:27:09

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1

SDG No.:

Lab Sample ID: CCVIS 480-367887/4 Calibration Date: 07/20/2017 10:25

Instrument ID: HP5890-12 Calib Start Date: 05/11/2017 15:46

GC Column: ZB-35 ID: 0.53(mm) Calib End Date: 05/11/2017 18:19

Lab File ID: 12_394m_243.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Lin1		0.0251		0.612	0.500	22.4*	20.0
PCB-1016 Peak 2	Lin1		0.0472		0.561	0.500	12.3	20.0
PCB-1016 Peak 3	Lin1		0.0323		0.623	0.500	24.5*	20.0
PCB-1016 Peak 4	Lin1		0.1031		0.640	0.500	27.9*	20.0
PCB-1016 Peak 5	Ave	0.0335	0.0426		0.636	0.500	27.3*	20.0
PCB-1260 Peak 1	Lin1		0.0538		0.513	0.500	2.6	20.0
PCB-1260 Peak 2	Lin1		0.0383		0.436	0.500	-12.9	20.0
PCB-1260 Peak 3	Lin1		0.0292		0.445	0.500	-11.0	20.0
PCB-1260 Peak 4	Lin1		0.1036		0.445	0.500	-10.9	20.0
PCB-1260 Peak 5	Lin1		0.0639		0.419	0.500	-16.3	20.0
Tetrachloro-m-xylene	Lin1		0.9758		0.0136	0.0125	9.2	20.0
DCB Decachlorobiphenyl	Lin1		1.298		0.0120	0.0125	-3.7	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1

SDG No.:

Lab Sample ID: CCVIS 480-367887/4 Calibration Date: 07/20/2017 10:25

Instrument ID: HP5890-12 Calib Start Date: 05/11/2017 15:46

GC Column: ZB-35 ID: 0.53(mm) Calib End Date: 05/11/2017 18:19

Lab File ID: 12_394m_243.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	2.53	2.50	2.56
PCB-1016 Peak 2	2.84	2.81	2.87
PCB-1016 Peak 3	3.05	3.02	3.08
PCB-1016 Peak 4	3.15	3.12	3.18
PCB-1016 Peak 5	3.27	3.24	3.30
PCB-1260 Peak 1	5.02	4.99	5.05
PCB-1260 Peak 2	5.34	5.31	5.37
PCB-1260 Peak 3	5.41	5.38	5.44
PCB-1260 Peak 4	5.47	5.44	5.50
PCB-1260 Peak 5	5.83	5.80	5.86
Tetrachloro-m-xylene	2.13	2.10	2.16
DCB Decachlorobiphenyl	7.05	7.02	7.08

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170720-64197.b\12_394m_243.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 20-Jul-2017 10:25:27 ALS Bottle#: 0 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP5890-12
Sublist: chrom-5890-12 PCB IS*sub1

Method: \\ChromNA\Buffalo\ChromData\HP5890-12\20170720-64197.b\5890-12 PCB IS.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 20-Jul-2017 14:50:56 Calib Date: 13-May-2017 13:35:27
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170513-62487.b\12_390m_257.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK026

First Level Reviewer: owenj Date: 20-Jul-2017 11:27:28

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.259	1.259	0.000	1245198	0.5000	0.5000	
2	1.546	1.546	0.000	1084909	0.5000	0.5000	
						RPD = 0.00	
$ 6 Tetrachloro-m-xylene							M
1	1.838	1.838	0.000	34915	0.0125	0.0140	M
2	2.125	2.125	0.000	26465	0.0125	0.0136	
						RPD = 2.41	
9 PCB-1016							M
1	2.039	2.039	0.000	38056	0.5000	0.5619	M
1	2.410	2.410	0.000	42547	0.5000	0.5899	M
1	2.583	2.583	0.000	136340	0.5000	0.5543	M
1	2.654	2.654	0.000	58610	0.5000	0.6140	M
1	2.706	2.706	0.000	34462	0.5000	0.5832	M
		Average of Peak Amounts =				0.5806	
2	2.525	2.525	0.000	27242	0.5000	0.6122	
2	2.840	2.840	0.000	51250	0.5000	0.5614	
2	3.049	3.049	0.000	35071	0.5000	0.6225	
2	3.147	3.147	0.000	111842	0.5000	0.6397	
2	3.266	3.266	0.000	46249	0.5000	0.6364	
		Average of Peak Amounts =				0.6144	
						RPD = 5.65	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
12 PCB-1260							M
1	4.075	4.075	0.000	77560	0.5000	0.5450	M
1	4.291	4.291	0.000	107910	0.5000	0.5610	M
1	4.415	4.415	0.000	58279	0.5000	0.5350	M
1	4.597	4.597	0.000	43932	0.5000	0.4856	M
1	5.030	5.030	0.000	58023	0.5000	0.4687	
		Average of Peak Amounts =				0.5191	
2	5.019	5.019	0.000	58385	0.5000	0.5130	
2	5.338	5.338	0.000	41506	0.5000	0.4357	
2	5.405	5.405	0.000	31726	0.5000	0.4448	
2	5.471	5.471	0.000	112395	0.5000	0.4454	
2	5.829	5.829	0.000	69299	0.5000	0.4186	
		Average of Peak Amounts =				0.4515	
						RPD = 13.93	
2 1260 Res 1							
1	5.030	5.030	0.000	58023	NC	NC	
2	5.338	5.338	0.000	41506	NC	NC	
4 1260 Res 2							
1	5.087	5.087	0.000	32012	NC	NC	
2	5.405	5.405	0.000	31726	NC	NC	
3 1260 Res 3							
1	5.128	5.128	0.000	46865	NC	NC	
2	5.471	5.471	0.000	112395	NC	NC	
$ 15 DCB Decachlorobiphenyl							
1	6.042	6.042	0.000	36893	0.0125	0.0113	
2	7.051	7.051	0.000	35193	0.0125	0.0120	
						RPD = 6.44	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

1660sur/is0.5_00007 Amount Added: 1.00 Units: ml

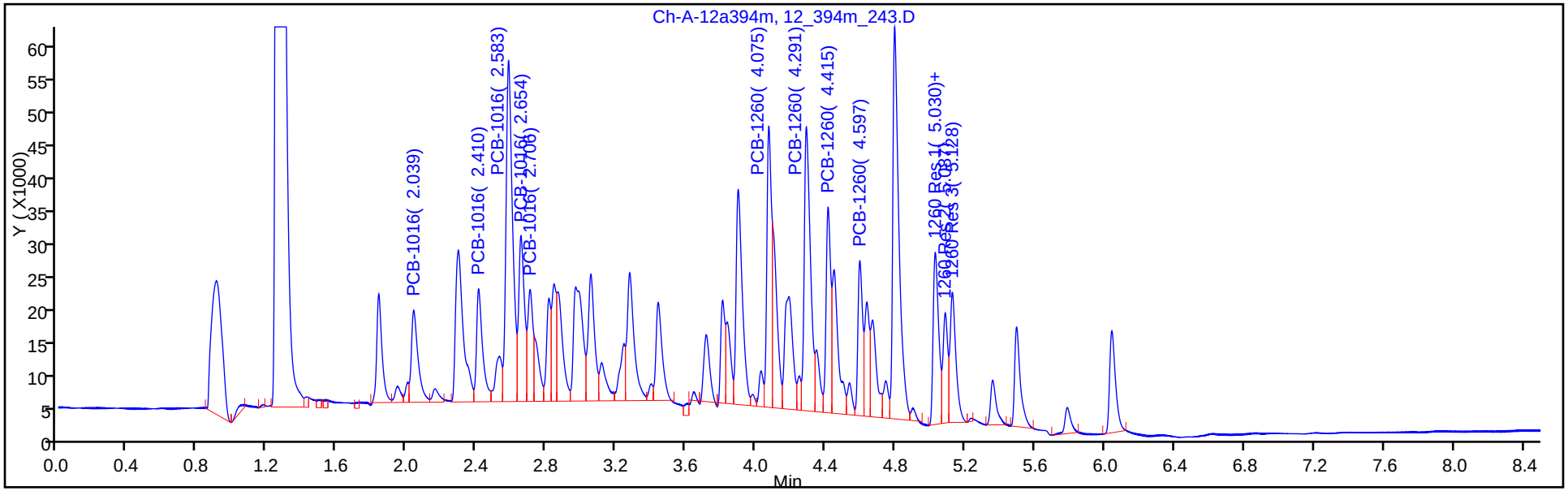
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TestAmerica Buffalo

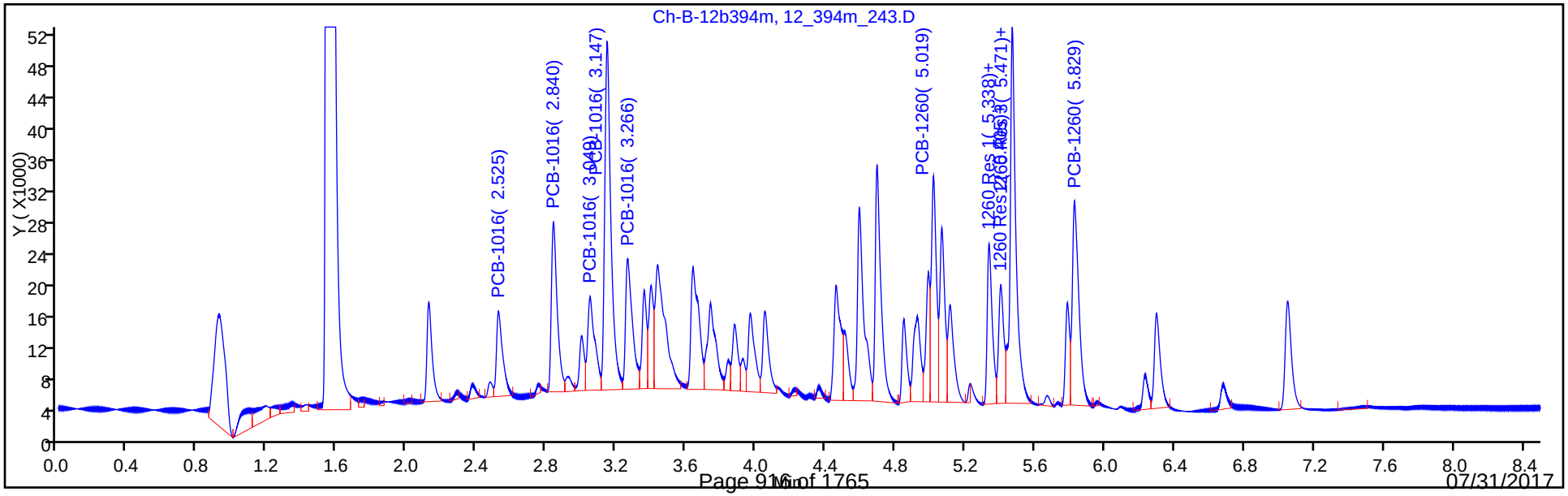
Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170720-64197.b\12_394m_243.D

Injection Date:	20-Jul-2017 10:25:27	Instrument ID:	HP5890-12	Operator ID:	BufTCHROM
Lims ID:	CCVIS			Worklist Smp#:	4
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	5890-12 PCB IS	Limit Group:	GC - 8082A PCB IS ICAL		

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



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



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1

SDG No.:

Lab Sample ID: CCV 480-367887/5 Calibration Date: 07/20/2017 10:40

Instrument ID: HP5890-12 Calib Start Date: 05/11/2017 19:52

GC Column: ZB-5 ID: 0.53(mm) Calib End Date: 05/11/2017 20:22

Lab File ID: 12_394m_244.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1221 Peak 1	Lin1		0.0113		0.448	0.500	-10.4	20.0
PCB-1221 Peak 2	Lin1		0.0135		0.524	0.500	4.8	20.0
PCB-1221 Peak 3	Lin1		0.0434		0.550	0.500	10.0	20.0
PCB-1254 Peak 1	Lin1		0.0764		0.603	0.500	20.5*	20.0
PCB-1254 Peak 2	Lin1		0.0921		0.533	0.500	6.5	20.0
PCB-1254 Peak 3	Lin1		0.1011		0.554	0.500	10.7	20.0
PCB-1254 Peak 4	Lin1		0.0580		0.502	0.500	0.3	20.0
PCB-1254 Peak 5	Lin1		0.0840		0.536	0.500	7.2	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1

SDG No.:

Lab Sample ID: CCV 480-367887/5 Calibration Date: 07/20/2017 10:40

Instrument ID: HP5890-12 Calib Start Date: 05/11/2017 19:52

GC Column: ZB-5 ID: 0.53(mm) Calib End Date: 05/11/2017 20:22

Lab File ID: 12_394m_244.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1221 Peak 1	1.54	1.51	1.57
PCB-1221 Peak 2	1.95	1.92	1.98
PCB-1221 Peak 3	2.04	2.01	2.07
PCB-1254 Peak 1	3.44	3.41	3.47
PCB-1254 Peak 2	3.72	3.69	3.75
PCB-1254 Peak 3	3.91	3.88	3.94
PCB-1254 Peak 4	4.11	4.08	4.14
PCB-1254 Peak 5	4.29	4.26	4.32

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170720-64197.b\12_394m_244.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 20-Jul-2017 10:40:47 ALS Bottle#: 0 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP5890-12
Sublist: chrom-5890-12 PCB IS*sub2

Method: \\ChromNA\Buffalo\ChromData\HP5890-12\20170720-64197.b\5890-12 PCB IS.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 20-Jul-2017 14:51:05 Calib Date: 13-May-2017 13:35:27
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170513-62487.b\12_390m_257.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK026

First Level Reviewer: owenj Date: 20-Jul-2017 11:27:59

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.257	1.257	0.000	1238580	0.5000	0.5000	
2	1.545	1.545	0.000	1076971	0.5000	0.5000	
						RPD = 0.00	
5 PCB-1221							
1	1.539	1.539	0.000	13978	0.5000	0.4479	
1	1.945	1.945	0.000	16747	0.5000	0.5240	
1	2.037	2.037	0.000	53755	0.5000	0.5502	
		Average of Peak Amounts =				0.5074	
2	1.869	1.869	0.000	13272	0.5000	0.6191	
2	2.373	2.373	0.000	14791	0.5000	0.5862	
2	2.523	2.523	0.000	40243	0.5000	0.6315	
		Average of Peak Amounts =				0.6123	
						RPD = 18.74	
11 PCB-1254							M
1	3.438	3.438	0.000	94572	0.5000	0.6026	M
1	3.717	3.717	0.000	114036	0.5000	0.5326	M
1	3.908	3.908	0.000	125253	0.5000	0.5536	M
1	4.113	4.113	0.000	71890	0.5000	0.5015	M
1	4.291	4.291	0.000	104012	0.5000	0.5362	M
		Average of Peak Amounts =				0.5453	
2	4.049	4.049	0.000	57051	0.5000	0.5192	
2	4.359	4.359	0.000	30305	0.5000	0.4104	
2	4.446	4.446	0.000	77028	0.5000	0.4486	
2	4.581	4.581	0.000	81350	0.5000	0.4503	
2	5.019	5.019	0.000	53195	0.5000	0.4292	
		Average of Peak Amounts =				0.4515	
						RPD = 18.82	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

21-54w/IS@0.5_00009 Amount Added: 1.00 Units: mL

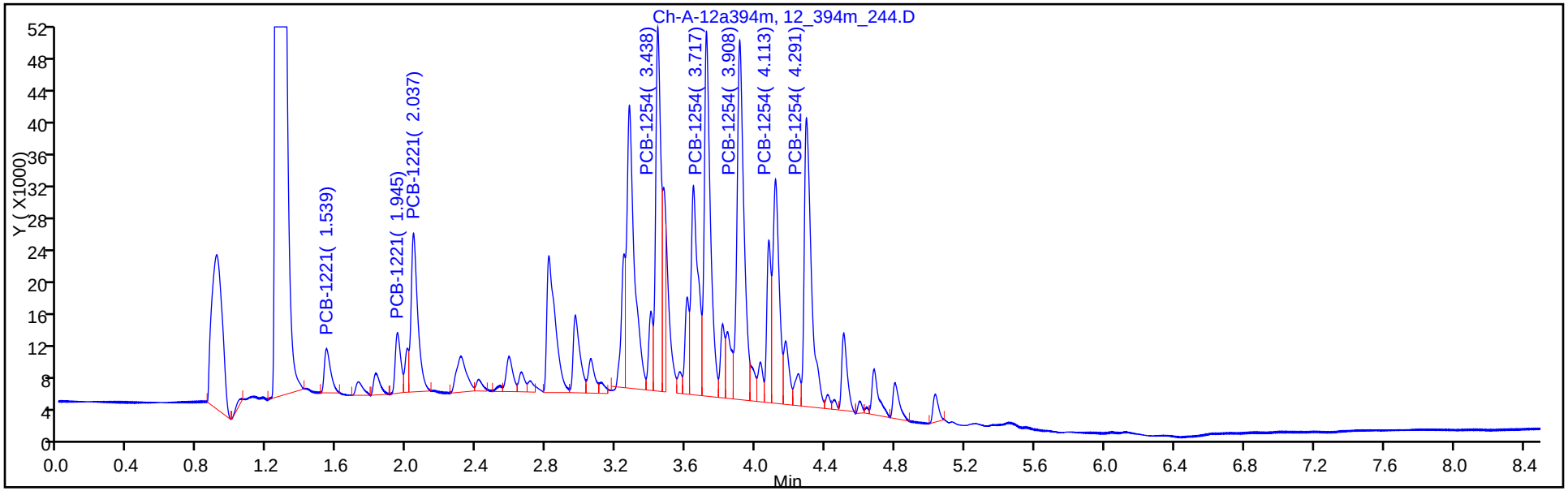
Report Date: 20-Jul-2017 14:51:08 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

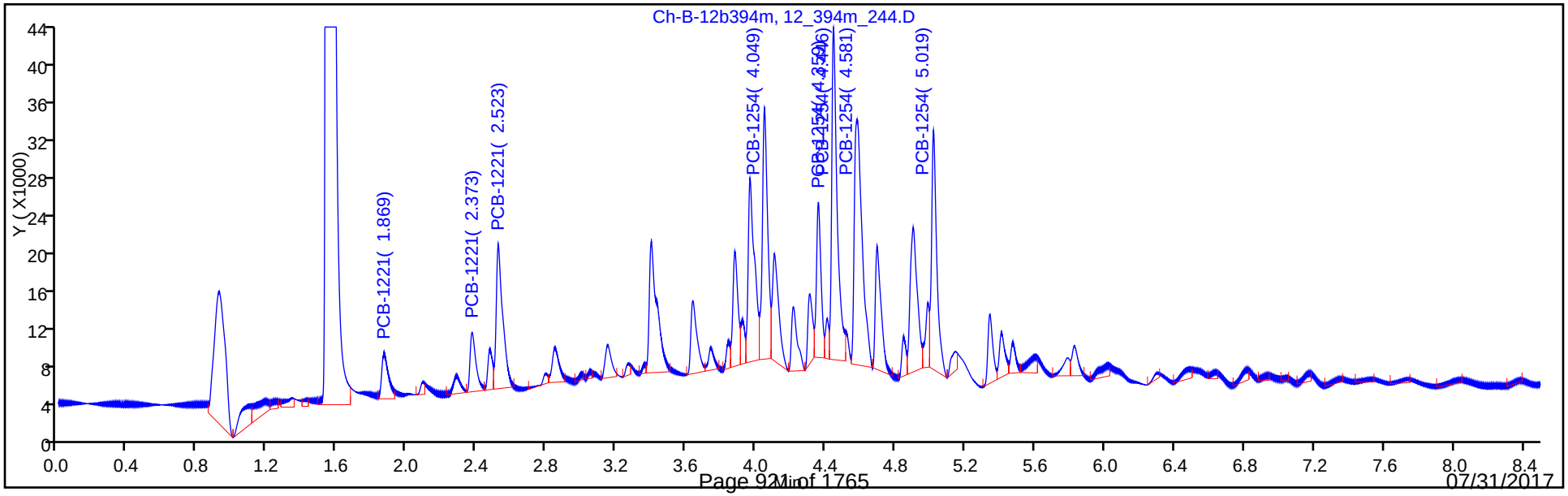
Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170720-64197.b\12_394m_244.D

Injection Date:	20-Jul-2017 10:40:47	Instrument ID:	HP5890-12	Operator ID:	BufTCHROM
Lims ID:	CCV			Worklist Smp#:	5
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	5890-12 PCB IS	Limit Group:	GC - 8082A PCB IS ICAL		

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



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



Report Date: 20-Jul-2017 14:51:09 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170720-64197.b\12_394m_244.D

Injection Date: 20-Jul-2017 10:40:47 Instrument ID: HP5890-12

Lims ID: CCV

Client ID:

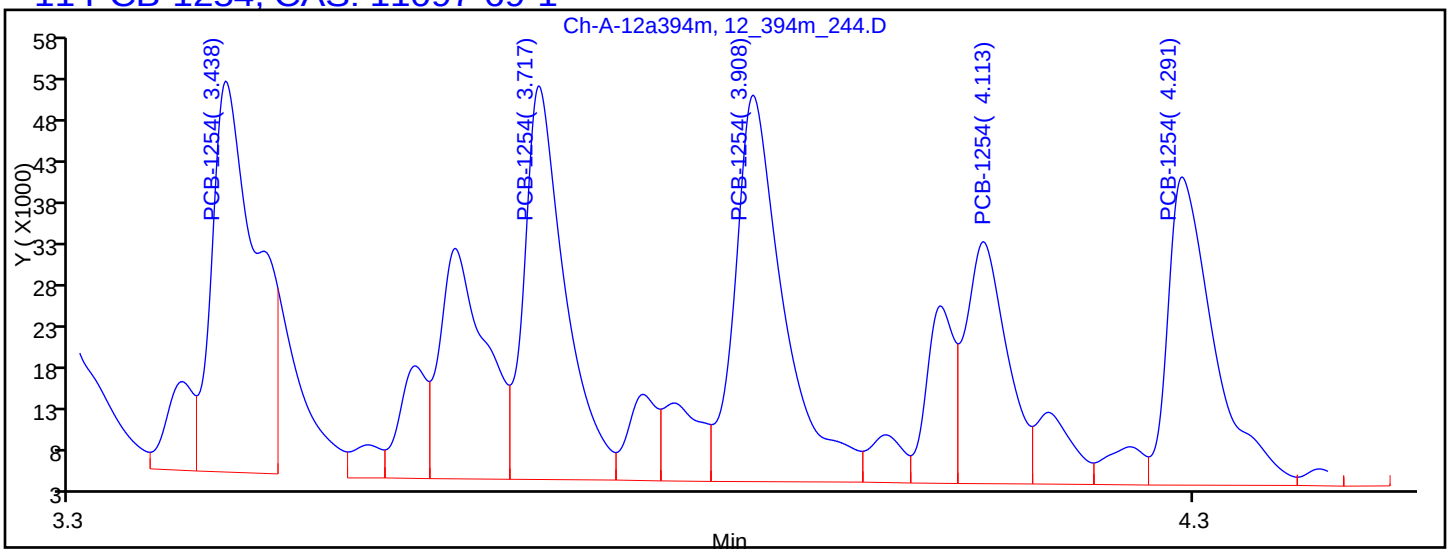
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 5

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 5890-12 PCB IS Limit Group: GC - 8082A PCB IS ICAL

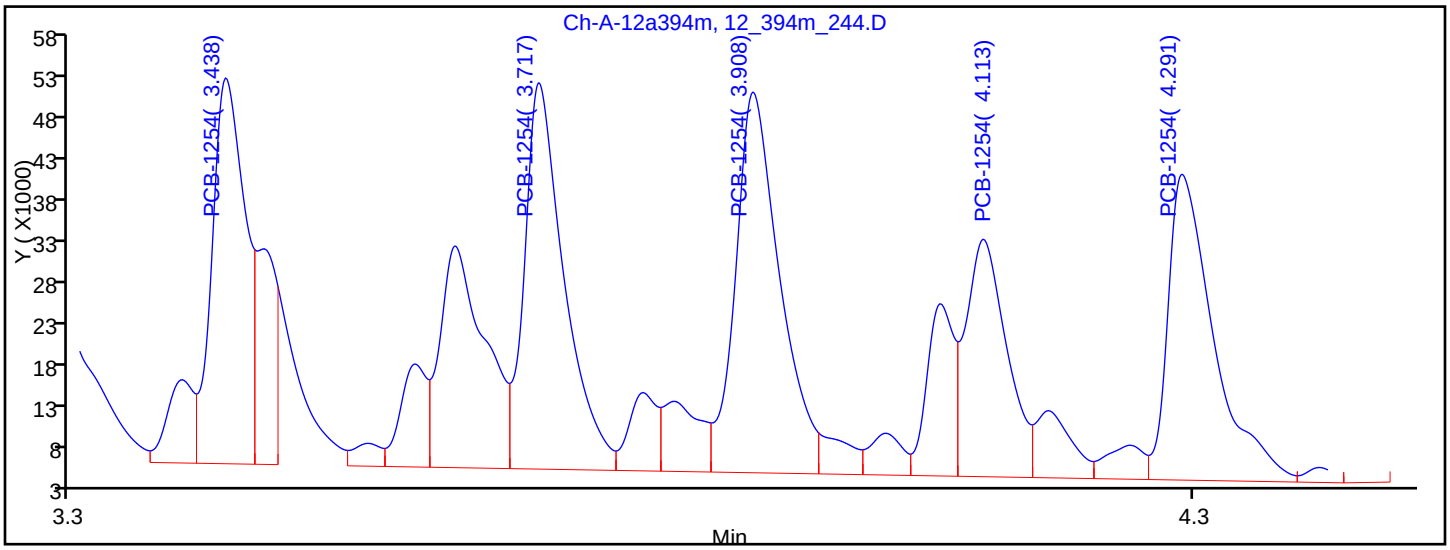
Column: Detector Ch-A-7A136

11 PCB-1254, CAS: 11097-69-1



Processing Integration Results

3.438	Response = 128981
3.717	Response = 119991
3.908	Response = 141220
4.113	Response = 74504
4.291	Response = 106946



Manual Integration Results

3.438	Response = 94572	M
3.717	Response = 114036	M
3.908	Response = 125253	M
4.113	Response = 71890	M
4.291	Response = 104012	M

Reviewer: owenj, 20-Jul-2017 11:27:39

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1

SDG No.:

Lab Sample ID: CCV 480-367887/5 Calibration Date: 07/20/2017 10:40

Instrument ID: HP5890-12 Calib Start Date: 05/11/2017 19:52

GC Column: ZB-35 ID: 0.53(mm) Calib End Date: 05/11/2017 20:22

Lab File ID: 12_394m_244.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1221 Peak 1	Lin1		0.0123		0.619	0.500	23.8*	20.0
PCB-1221 Peak 2	Lin1		0.0137		0.586	0.500	17.2	20.0
PCB-1221 Peak 3	Lin1		0.0374		0.631	0.500	26.3*	20.0
PCB-1254 Peak 1	Lin1		0.0530		0.519	0.500	3.8	20.0
PCB-1254 Peak 2	Lin1		0.0281		0.410	0.500	-17.9	20.0
PCB-1254 Peak 3	Lin1		0.0715		0.449	0.500	-10.3	20.0
PCB-1254 Peak 4	Lin1		0.0755		0.450	0.500	-9.9	20.0
PCB-1254 Peak 5	Lin1		0.0494		0.429	0.500	-14.2	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1

SDG No.:

Lab Sample ID: CCV 480-367887/5 Calibration Date: 07/20/2017 10:40

Instrument ID: HP5890-12 Calib Start Date: 05/11/2017 19:52

GC Column: ZB-35 ID: 0.53(mm) Calib End Date: 05/11/2017 20:22

Lab File ID: 12_394m_244.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1221 Peak 1	1.87	1.84	1.90
PCB-1221 Peak 2	2.37	2.34	2.40
PCB-1221 Peak 3	2.52	2.49	2.55
PCB-1254 Peak 1	4.05	4.02	4.08
PCB-1254 Peak 2	4.36	4.33	4.39
PCB-1254 Peak 3	4.45	4.42	4.48
PCB-1254 Peak 4	4.58	4.55	4.61
PCB-1254 Peak 5	5.02	4.99	5.05

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170720-64197.b\12_394m_244.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 20-Jul-2017 10:40:47 ALS Bottle#: 0 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP5890-12
Sublist: chrom-5890-12 PCB IS*sub2

Method: \\ChromNA\Buffalo\ChromData\HP5890-12\20170720-64197.b\5890-12 PCB IS.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 20-Jul-2017 14:51:05 Calib Date: 13-May-2017 13:35:27
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170513-62487.b\12_390m_257.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK026

First Level Reviewer: owenj Date: 20-Jul-2017 11:27:59

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.257	1.257	0.000	1238580	0.5000	0.5000	
2	1.545	1.545	0.000	1076971	0.5000	0.5000	
						RPD = 0.00	
5 PCB-1221							
1	1.539	1.539	0.000	13978	0.5000	0.4479	
1	1.945	1.945	0.000	16747	0.5000	0.5240	
1	2.037	2.037	0.000	53755	0.5000	0.5502	
		Average of Peak Amounts =				0.5074	
2	1.869	1.869	0.000	13272	0.5000	0.6191	
2	2.373	2.373	0.000	14791	0.5000	0.5862	
2	2.523	2.523	0.000	40243	0.5000	0.6315	
		Average of Peak Amounts =				0.6123	
						RPD = 18.74	
11 PCB-1254							M
1	3.438	3.438	0.000	94572	0.5000	0.6026	M
1	3.717	3.717	0.000	114036	0.5000	0.5326	M
1	3.908	3.908	0.000	125253	0.5000	0.5536	M
1	4.113	4.113	0.000	71890	0.5000	0.5015	M
1	4.291	4.291	0.000	104012	0.5000	0.5362	M
		Average of Peak Amounts =				0.5453	
2	4.049	4.049	0.000	57051	0.5000	0.5192	
2	4.359	4.359	0.000	30305	0.5000	0.4104	
2	4.446	4.446	0.000	77028	0.5000	0.4486	
2	4.581	4.581	0.000	81350	0.5000	0.4503	
2	5.019	5.019	0.000	53195	0.5000	0.4292	
		Average of Peak Amounts =				0.4515	
						RPD = 18.82	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

21-54w/IS@0.5_00009 Amount Added: 1.00 Units: mL

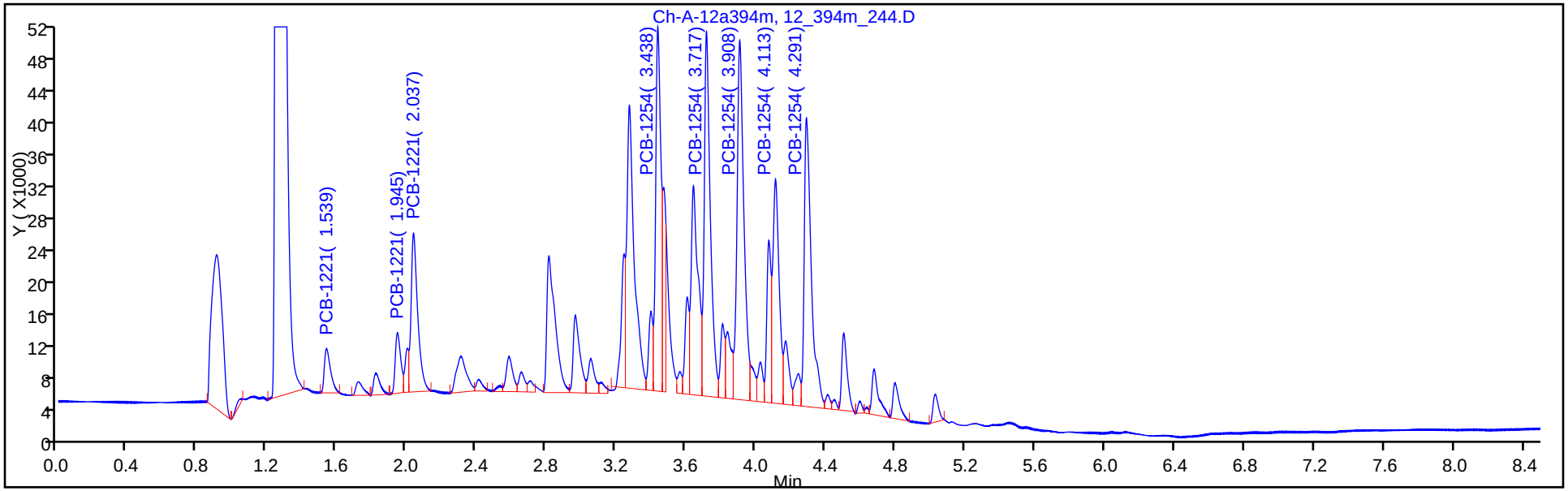
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TestAmerica Buffalo

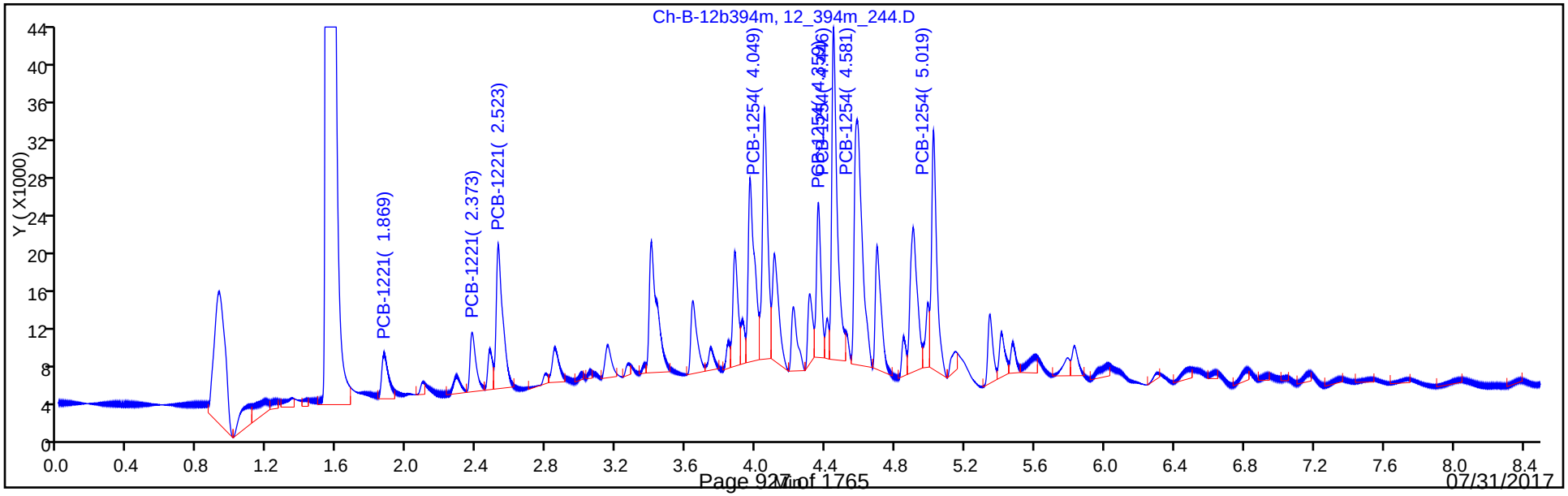
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Injection Date:	20-Jul-2017 10:40:47	Instrument ID:	HP5890-12	Operator ID:	BufTCHROM
Lims ID:	CCV			Worklist Smp#:	5
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	5890-12 PCB IS	Limit Group:	GC - 8082A PCB IS ICAL		

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



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



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1

SDG No.:

Lab Sample ID: CCV 480-367887/6 Calibration Date: 07/20/2017 10:56

Instrument ID: HP5890-12 Calib Start Date: 05/11/2017 20:53

GC Column: ZB-5 ID: 0.53(mm) Calib End Date: 05/11/2017 21:24

Lab File ID: 12_394m_245.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1232 Peak 1	Lin1		0.0393		0.601	0.500	20.2*	20.0
PCB-1232 Peak 2	Lin1		0.0321		0.535	0.500	7.1	20.0
PCB-1232 Peak 3	Lin1		0.0134		0.482	0.500	-3.5	20.0
PCB-1232 Peak 4	Lin1		0.0506		0.561	0.500	12.2	20.0
PCB-1232 Peak 5	Lin1		0.0207		0.550	0.500	10.0	20.0
PCB-1262 Peak 1	Lin1		0.0761		0.621	0.500	24.2*	20.0
PCB-1262 Peak 2	Lin1		0.0480		0.548	0.500	9.6	20.0
PCB-1262 Peak 3	Lin1		0.0377		0.492	0.500	-1.6	20.0
PCB-1262 Peak 4	Lin1		0.0547		0.566	0.500	13.2	20.0
PCB-1262 Peak 5	Lin1		0.0803		0.498	0.500	-0.5	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1

SDG No.:

Lab Sample ID: CCV 480-367887/6 Calibration Date: 07/20/2017 10:56

Instrument ID: HP5890-12 Calib Start Date: 05/11/2017 20:53

GC Column: ZB-5 ID: 0.53(mm) Calib End Date: 05/11/2017 21:24

Lab File ID: 12_394m_245.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1232 Peak 1	2.04	2.01	2.07
PCB-1232 Peak 2	2.30	2.27	2.33
PCB-1232 Peak 3	2.41	2.38	2.44
PCB-1232 Peak 4	2.58	2.55	2.61
PCB-1232 Peak 5	2.65	2.62	2.68
PCB-1262 Peak 1	4.41	4.38	4.44
PCB-1262 Peak 2	4.60	4.57	4.63
PCB-1262 Peak 3	5.03	5.00	5.06
PCB-1262 Peak 4	5.09	5.06	5.12
PCB-1262 Peak 5	5.13	5.10	5.16

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170720-64197.b\12_394m_245.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 20-Jul-2017 10:56:10 ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP5890-12
Sublist: chrom-5890-12 PCB IS*sub3

Method: \\ChromNA\Buffalo\ChromData\HP5890-12\20170720-64197.b\5890-12 PCB IS.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 20-Jul-2017 14:51:10 Calib Date: 13-May-2017 13:35:27
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170513-62487.b\12_390m_257.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK026

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.258	1.258	0.000	1150640	0.5000	0.5000	
2	1.546	1.546	0.000	1001496	0.5000	0.5000	
						RPD = 0.00	
7 PCB-1232							
1	2.037	2.037	0.000	45190	0.5000	0.6009	
1	2.295	2.295	0.000	36972	0.5000	0.5355	
1	2.411	2.411	0.000	15419	0.5000	0.4823	
1	2.584	2.584	0.000	58234	0.5000	0.5608	
1	2.654	2.654	0.000	23764	0.5000	0.5499	
		Average of Peak Amounts =				0.5459	
2	2.523	2.523	0.000	33002	0.5000	0.6434	
2	2.841	2.841	0.000	26332	0.5000	0.5884	
2	3.149	3.149	0.000	52847	0.5000	0.6892	
2	3.266	3.266	0.000	20641	0.5000	0.6793	
2	3.642	3.642	0.000	26419	0.5000	0.7727	
		Average of Peak Amounts =				0.6746	
						RPD = 21.10	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
13 PCB-1262							
1	4.413	4.413	0.000	87589	0.5000	0.6211	
1	4.595	4.595	0.000	55264	0.5000	0.5478	
1	5.029	5.029	0.000	43350	0.5000	0.4922	
1	5.086	5.086	0.000	62967	0.5000	0.5660	
1	5.126	5.126	0.000	92435	0.5000	0.4977	
		Average of Peak Amounts =				0.5450	
2	5.067	5.067	0.000	64371	0.5000	0.5470	
2	5.335	5.335	0.000	53582	0.5000	0.5072	
2	5.469	5.469	0.000	124461	0.5000	0.4893	
2	5.784	5.784	0.000	45133	0.5000	0.4805	
2	5.825	5.825	0.000	94648	0.5000	0.4962	
		Average of Peak Amounts =				0.5040	
						RPD = 7.80	

Reagents:

32-62w/IS@0.5_00009 Amount Added: 1.00 Units: mL

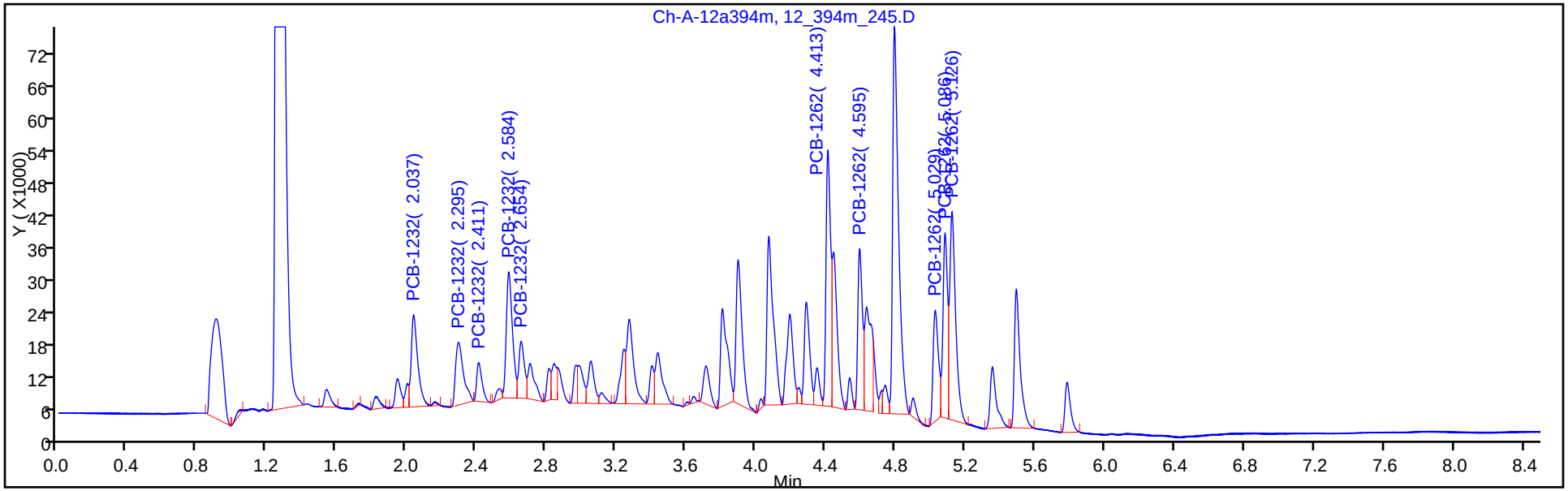
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TestAmerica Buffalo

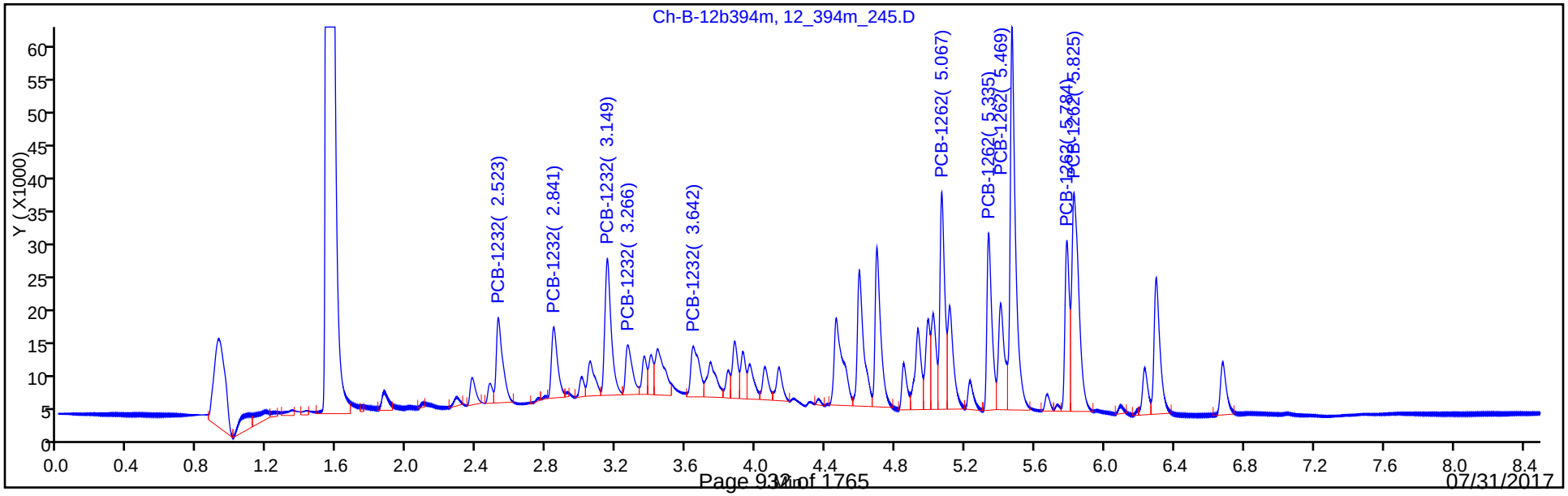
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Injection Date:	20-Jul-2017 10:56:10	Instrument ID:	HP5890-12	Operator ID:	BufTCHROM
Lims ID:	CCV			Worklist Smp#:	6
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	5890-12 PCB IS	Limit Group:	GC - 8082A PCB IS ICAL		

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



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



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1

SDG No.:

Lab Sample ID: CCV 480-367887/6 Calibration Date: 07/20/2017 10:56

Instrument ID: HP5890-12 Calib Start Date: 05/11/2017 20:53

GC Column: ZB-35 ID: 0.53(mm) Calib End Date: 05/11/2017 21:24

Lab File ID: 12_394m_245.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1232 Peak 1	Lin1		0.0330		0.643	0.500	28.7*	20.0
PCB-1232 Peak 2	Lin1		0.0263		0.588	0.500	17.7	20.0
PCB-1232 Peak 3	Lin1		0.0528		0.689	0.500	37.8*	20.0
PCB-1232 Peak 4	Lin1		0.0206		0.679	0.500	35.9*	20.0
PCB-1232 Peak 5	Lin1		0.0264		0.773	0.500	54.5*	20.0
PCB-1262 Peak 1	Lin1		0.0643		0.547	0.500	9.4	20.0
PCB-1262 Peak 2	Lin1		0.0535		0.507	0.500	1.4	20.0
PCB-1262 Peak 3	Lin1		0.1243		0.489	0.500	-2.1	20.0
PCB-1262 Peak 4	Lin1		0.0451		0.481	0.500	-3.9	20.0
PCB-1262 Peak 5	Lin1		0.0945		0.496	0.500	-0.8	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1

SDG No.:

Lab Sample ID: CCV 480-367887/6 Calibration Date: 07/20/2017 10:56

Instrument ID: HP5890-12 Calib Start Date: 05/11/2017 20:53

GC Column: ZB-35 ID: 0.53(mm) Calib End Date: 05/11/2017 21:24

Lab File ID: 12_394m_245.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1232 Peak 1	2.52	2.49	2.55
PCB-1232 Peak 2	2.84	2.81	2.87
PCB-1232 Peak 3	3.15	3.12	3.18
PCB-1232 Peak 4	3.27	3.24	3.30
PCB-1232 Peak 5	3.64	3.61	3.67
PCB-1262 Peak 1	5.07	5.04	5.10
PCB-1262 Peak 2	5.34	5.31	5.37
PCB-1262 Peak 3	5.47	5.44	5.50
PCB-1262 Peak 4	5.78	5.75	5.81
PCB-1262 Peak 5	5.83	5.80	5.86

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170720-64197.b\12_394m_245.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 20-Jul-2017 10:56:10 ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP5890-12
Sublist: chrom-5890-12 PCB IS*sub3

Method: \\ChromNA\Buffalo\ChromData\HP5890-12\20170720-64197.b\5890-12 PCB IS.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 20-Jul-2017 14:51:10 Calib Date: 13-May-2017 13:35:27
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170513-62487.b\12_390m_257.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK026

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.258	1.258	0.000	1150640	0.5000	0.5000	
2	1.546	1.546	0.000	1001496	0.5000	0.5000	
						RPD = 0.00	
7 PCB-1232							
1	2.037	2.037	0.000	45190	0.5000	0.6009	
1	2.295	2.295	0.000	36972	0.5000	0.5355	
1	2.411	2.411	0.000	15419	0.5000	0.4823	
1	2.584	2.584	0.000	58234	0.5000	0.5608	
1	2.654	2.654	0.000	23764	0.5000	0.5499	
		Average of Peak Amounts =				0.5459	
2	2.523	2.523	0.000	33002	0.5000	0.6434	
2	2.841	2.841	0.000	26332	0.5000	0.5884	
2	3.149	3.149	0.000	52847	0.5000	0.6892	
2	3.266	3.266	0.000	20641	0.5000	0.6793	
2	3.642	3.642	0.000	26419	0.5000	0.7727	
		Average of Peak Amounts =				0.6746	
						RPD = 21.10	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
13 PCB-1262							
1	4.413	4.413	0.000	87589	0.5000	0.6211	
1	4.595	4.595	0.000	55264	0.5000	0.5478	
1	5.029	5.029	0.000	43350	0.5000	0.4922	
1	5.086	5.086	0.000	62967	0.5000	0.5660	
1	5.126	5.126	0.000	92435	0.5000	0.4977	
		Average of Peak Amounts =				0.5450	
2	5.067	5.067	0.000	64371	0.5000	0.5470	
2	5.335	5.335	0.000	53582	0.5000	0.5072	
2	5.469	5.469	0.000	124461	0.5000	0.4893	
2	5.784	5.784	0.000	45133	0.5000	0.4805	
2	5.825	5.825	0.000	94648	0.5000	0.4962	
		Average of Peak Amounts =				0.5040	
						RPD = 7.80	

Reagents:

32-62w/IS@0.5_00009 Amount Added: 1.00 Units: mL

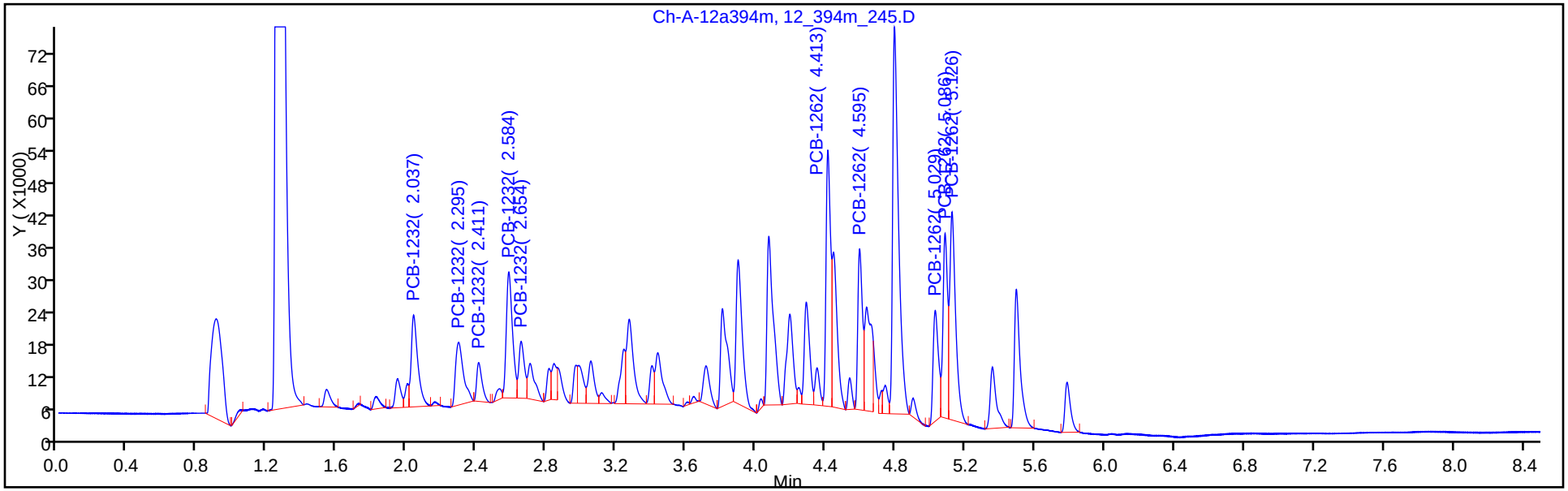
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TestAmerica Buffalo

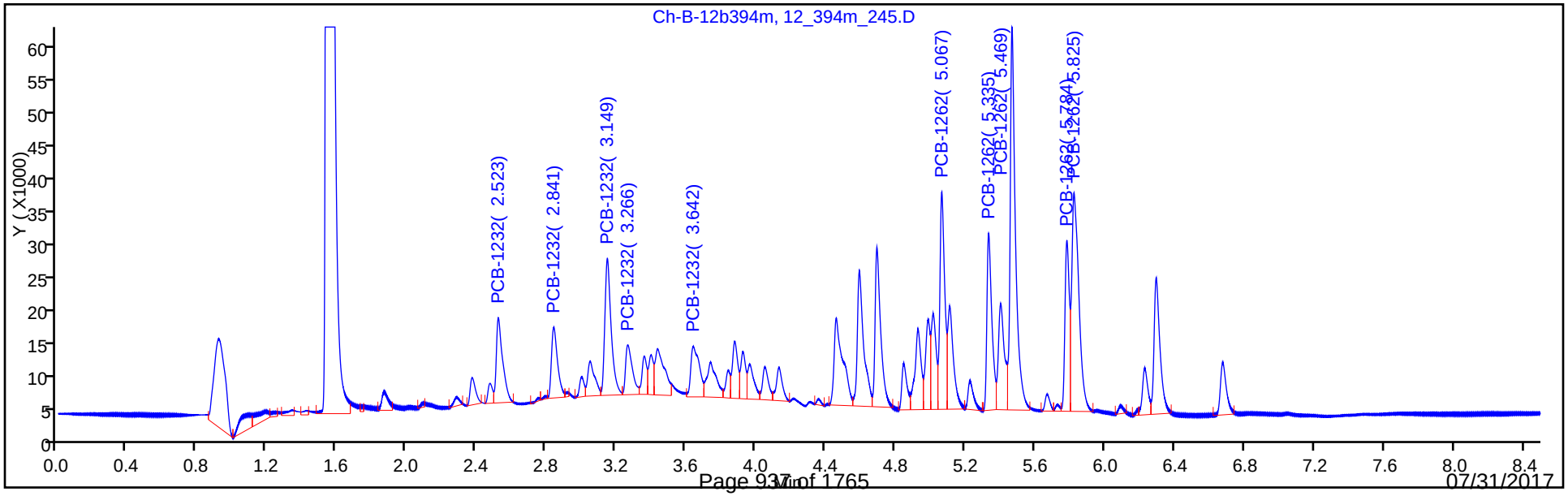
Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170720-64197.b\12_394m_245.D

Injection Date:	20-Jul-2017 10:56:10	Instrument ID:	HP5890-12	Operator ID:	BufTCHROM
Lims ID:	CCV			Worklist Smp#:	6
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	5890-12 PCB IS	Limit Group:	GC - 8082A PCB IS ICAL		

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



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



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1

SDG No.:

Lab Sample ID: CCV 480-367887/7 Calibration Date: 07/20/2017 11:11

Instrument ID: HP5890-12 Calib Start Date: 05/13/2017 11:27

GC Column: ZB-5 ID: 0.53(mm) Calib End Date: 05/13/2017 12:34

Lab File ID: 12_394m_246.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1242 Peak 1	Lin1		0.0838		0.536	0.500	7.2	20.0
PCB-1242 Peak 2	Lin1		0.0360		0.563	0.500	12.7	20.0
PCB-1242 Peak 3	Lin1		0.0319		0.544	0.500	8.8	20.0
PCB-1242 Peak 4	Lin1		0.0548		0.570	0.500	13.9	20.0
PCB-1242 Peak 5	Lin1		0.0199		0.473	0.500	-5.5	20.0
PCB-1268 Peak 1	Lin1		0.1299		0.618	0.500	23.5*	20.0
PCB-1268 Peak 2	Lin1		0.2148		0.525	0.500	5.0	20.0
PCB-1268 Peak 3	Lin1		0.1250		0.541	0.500	8.2	20.0
PCB-1268 Peak 4	Lin1		0.0524		0.464	0.500	-7.2	20.0
PCB-1268 Peak 5	Lin1		0.4011		0.529	0.500	5.7	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1

SDG No.:

Lab Sample ID: CCV 480-367887/7 Calibration Date: 07/20/2017 11:11

Instrument ID: HP5890-12 Calib Start Date: 05/13/2017 11:27

GC Column: ZB-5 ID: 0.53(mm) Calib End Date: 05/13/2017 12:34

Lab File ID: 12_394m_246.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1242 Peak 1	2.58	2.55	2.61
PCB-1242 Peak 2	2.65	2.62	2.68
PCB-1242 Peak 3	3.05	3.02	3.08
PCB-1242 Peak 4	3.27	3.24	3.30
PCB-1242 Peak 5	3.41	3.38	3.44
PCB-1268 Peak 1	5.09	5.06	5.12
PCB-1268 Peak 2	5.12	5.09	5.15
PCB-1268 Peak 3	5.34	5.31	5.37
PCB-1268 Peak 4	5.49	5.46	5.52
PCB-1268 Peak 5	5.78	5.75	5.81

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170720-64197.b\12_394m_246.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 20-Jul-2017 11:11:30 ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP5890-12
Sublist: chrom-5890-12 PCB IS*sub4

Method: \\ChromNA\Buffalo\ChromData\HP5890-12\20170720-64197.b\5890-12 PCB IS.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 20-Jul-2017 14:51:16 Calib Date: 13-May-2017 13:35:27
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170513-62487.b\12_390m_257.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK026

First Level Reviewer: owenj Date: 20-Jul-2017 14:50:00

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.257	1.257	0.000	1257834	0.5000	0.5000	
2	1.545	1.545	0.000	1096631	0.5000	0.5000	
						RPD = 0.00	
8 PCB-1242							M
1	2.582	2.582	0.000	105456	0.5000	0.5358	
1	2.653	2.653	0.000	45309	0.5000	0.5635	
1	3.053	3.053	0.000	40162	0.5000	0.5440	M
1	3.271	3.271	0.000	68865	0.5000	0.5695	M
1	3.405	3.405	0.000	25073	0.5000	0.4727	M
		Average of Peak Amounts =				0.5371	
2	3.148	3.148	0.000	91416	0.5000	0.6165	
2	3.266	3.266	0.000	37263	0.5000	0.6066	
2	3.437	3.437	0.000	32613	0.5000	0.4365	M
2	3.640	3.640	0.000	25275	0.5000	0.3386	M
2	3.879	3.879	0.000	36593	0.5000	0.6333	
		Average of Peak Amounts =				0.5263	
						RPD = 2.03	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
14 PCB-1268							
1	5.085	5.085	0.000	163404	0.5000	0.6176	
1	5.123	5.123	0.000	270114	0.5000	0.5248	
1	5.343	5.343	0.000	157203	0.5000	0.5409	
1	5.494	5.494	0.000	65884	0.5000	0.4640	
1	5.782	5.782	0.000	504463	0.5000	0.5287	
		Average of Peak Amounts =				0.5352	
2	5.781	5.781	0.000	111920	0.5000	0.4725	
2	5.822	5.822	0.000	168591	0.5000	0.4986	
2	6.089	6.089	0.000	120274	0.5000	0.5000	
2	6.297	6.297	0.000	51643	0.5000	0.4482	
2	6.673	6.673	0.000	416000	0.5000	0.5255	
		Average of Peak Amounts =				0.4890	
						RPD = 9.03	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

42-68w/IS@0.5_00009 Amount Added: 1.00 Units: mL

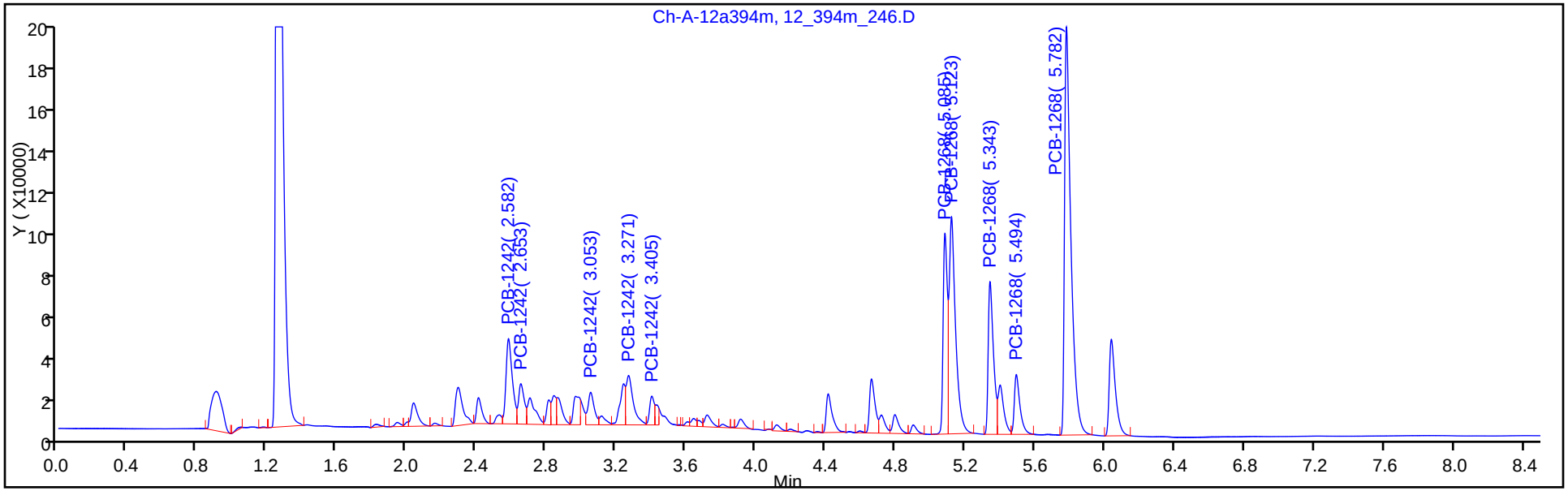
Report Date: 20-Jul-2017 14:51:20 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

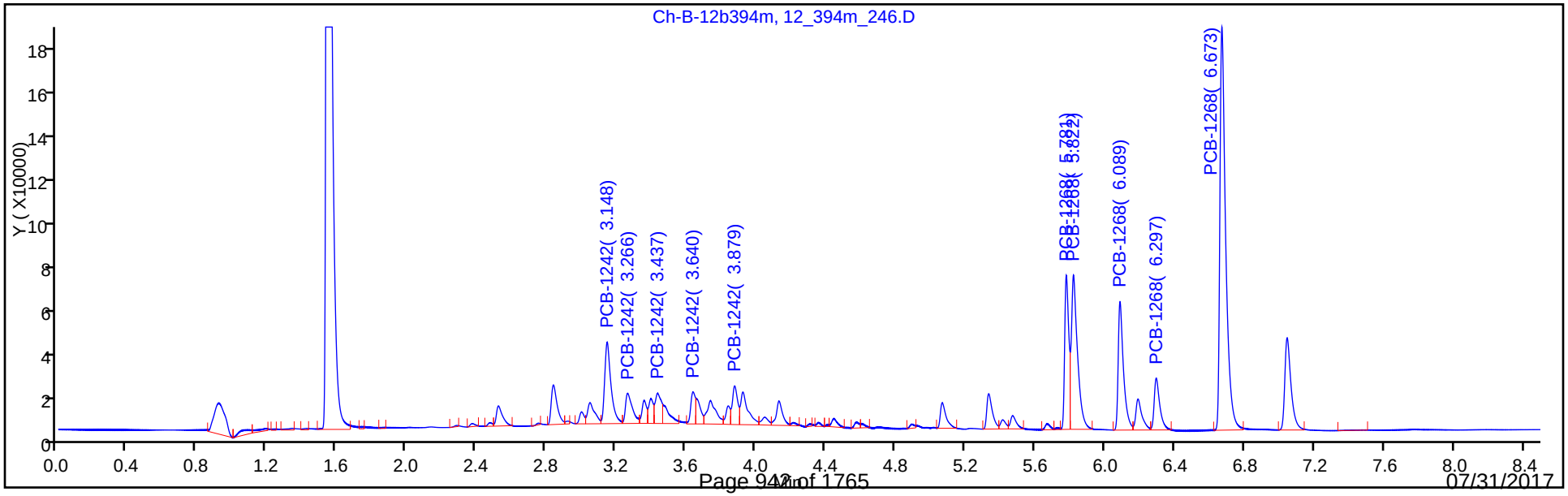
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Injection Date:	20-Jul-2017 11:11:30	Instrument ID:	HP5890-12	Operator ID:	BufTCHROM
Lims ID:	CCV			Worklist Smp#:	7
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	5890-12 PCB IS	Limit Group:	GC - 8082A PCB IS ICAL		

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



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



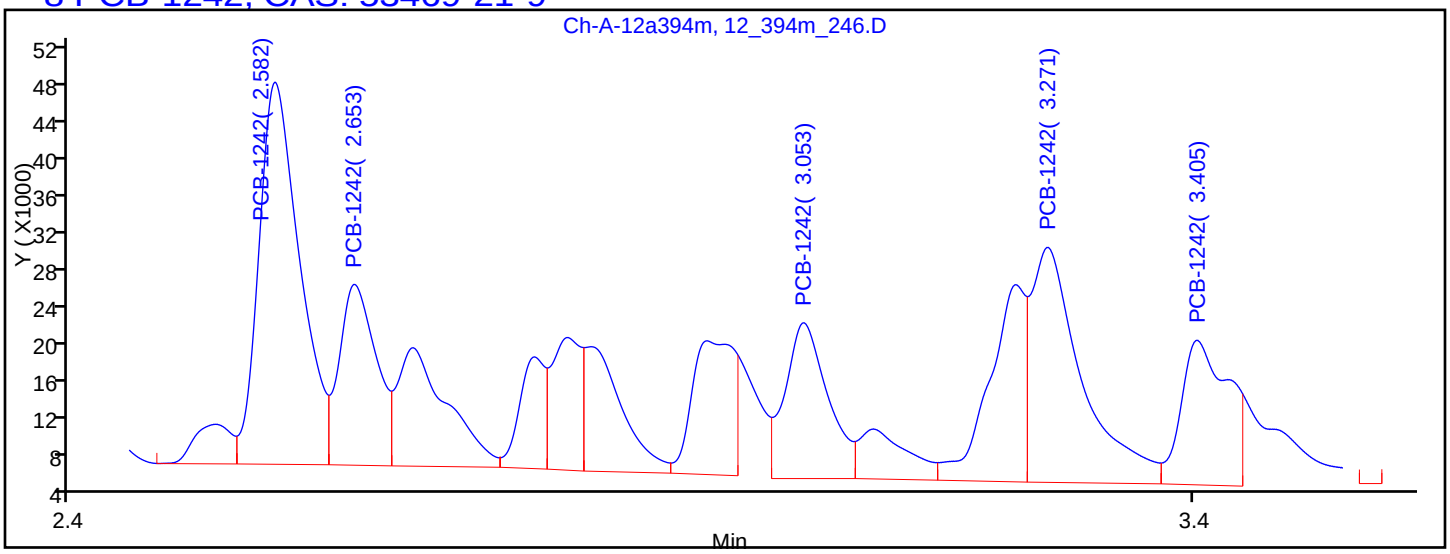
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TestAmerica Buffalo

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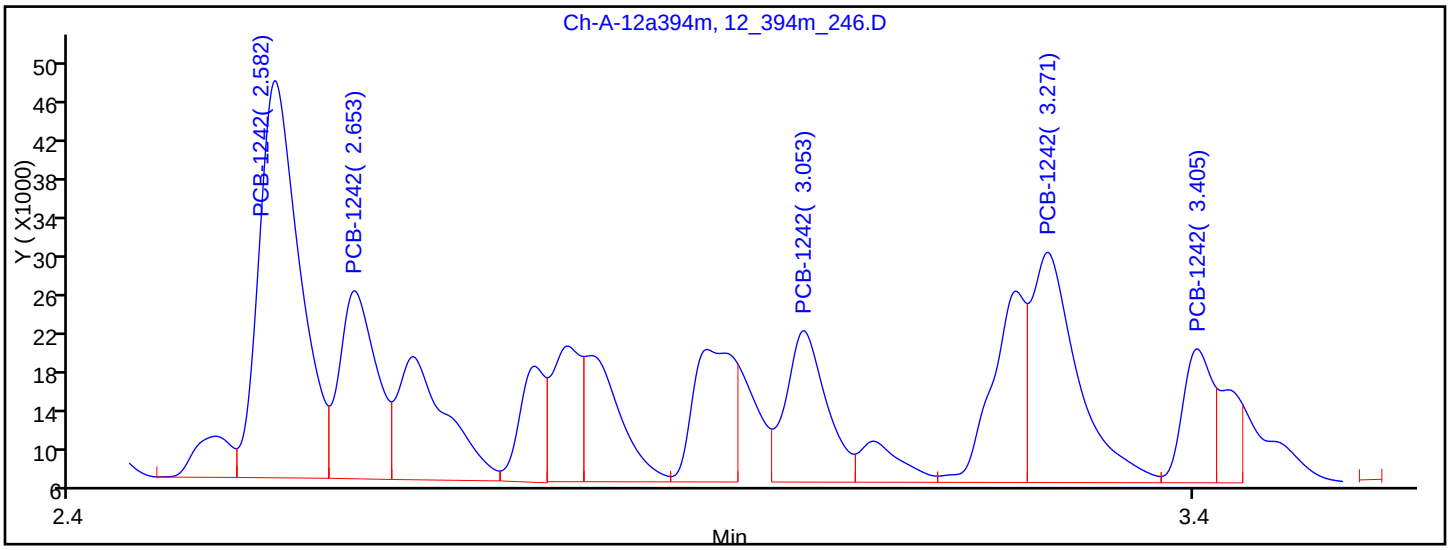
Injection Date:	20-Jul-2017 11:11:30	Instrument ID:	HP5890-12		
Lims ID:	CCV				
Client ID:					
Operator ID:	BufTCHROM	ALS Bottle#:	0	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	5890-12 PCB IS	Limit Group:	GC - 8082A PCB IS ICAL		
Column:		Detector	Ch-A-7A136		

8 PCB-1242, CAS: 53469-21-9



Processing Integration Results

2.582	Response = 105456
2.653	Response = 45309
3.053	Response = 45088
3.271	Response = 79802
3.405	Response = 45769



Manual Integration Results

2.582	Response = 105456	
2.653	Response = 45309	
3.053	Response = 40162	M
3.271	Response = 68865	M
3.405	Response = 25073	M

Reviewer: owenj, 20-Jul-2017 14:49:49

Audit Action: Assigned New Baseline Audit Reason: Split Peak

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1

SDG No.:

Lab Sample ID: CCV 480-367887/7 Calibration Date: 07/20/2017 11:11

Instrument ID: HP5890-12 Calib Start Date: 05/13/2017 11:27

GC Column: ZB-35 ID: 0.53(mm) Calib End Date: 05/13/2017 12:34

Lab File ID: 12_394m_246.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1242 Peak 1	Lin1		0.0834		0.617	0.500	23.3*	20.0
PCB-1242 Peak 2	Lin1		0.0340		0.607	0.500	21.3*	20.0
PCB-1242 Peak 3	Lin1		0.0297		0.436	0.500	-12.7	20.0
PCB-1242 Peak 4	Lin1		0.0231		0.339	0.500	-32.3*	20.0
PCB-1242 Peak 5	Lin1		0.0334		0.633	0.500	26.7*	20.0
PCB-1268 Peak 1	Lin1		0.1021		0.472	0.500	-5.5	20.0
PCB-1268 Peak 2	Lin1		0.1537		0.499	0.500	-0.3	20.0
PCB-1268 Peak 3	Lin1		0.1097		0.500	0.500	0.0	20.0
PCB-1268 Peak 4	Lin1		0.0471		0.448	0.500	-10.4	20.0
PCB-1268 Peak 5	Lin1		0.3793		0.525	0.500	5.1	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1

SDG No.:

Lab Sample ID: CCV 480-367887/7 Calibration Date: 07/20/2017 11:11

Instrument ID: HP5890-12 Calib Start Date: 05/13/2017 11:27

GC Column: ZB-35 ID: 0.53(mm) Calib End Date: 05/13/2017 12:34

Lab File ID: 12_394m_246.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1242 Peak 1	3.15	3.12	3.18
PCB-1242 Peak 2	3.27	3.24	3.30
PCB-1242 Peak 3	3.44	3.41	3.47
PCB-1242 Peak 4	3.64	3.61	3.67
PCB-1242 Peak 5	3.88	3.85	3.91
PCB-1268 Peak 1	5.78	5.75	5.81
PCB-1268 Peak 2	5.82	5.79	5.85
PCB-1268 Peak 3	6.09	6.06	6.12
PCB-1268 Peak 4	6.30	6.27	6.33
PCB-1268 Peak 5	6.67	6.64	6.70

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170720-64197.b\12_394m_246.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 20-Jul-2017 11:11:30 ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP5890-12
Sublist: chrom-5890-12 PCB IS*sub4

Method: \\ChromNA\Buffalo\ChromData\HP5890-12\20170720-64197.b\5890-12 PCB IS.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 20-Jul-2017 14:51:16 Calib Date: 13-May-2017 13:35:27
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170513-62487.b\12_390m_257.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK026

First Level Reviewer: owenj Date: 20-Jul-2017 14:50:00

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.257	1.257	0.000	1257834	0.5000	0.5000	
2	1.545	1.545	0.000	1096631	0.5000	0.5000	
						RPD = 0.00	
8 PCB-1242							M
1	2.582	2.582	0.000	105456	0.5000	0.5358	
1	2.653	2.653	0.000	45309	0.5000	0.5635	
1	3.053	3.053	0.000	40162	0.5000	0.5440	M
1	3.271	3.271	0.000	68865	0.5000	0.5695	M
1	3.405	3.405	0.000	25073	0.5000	0.4727	M
		Average of Peak Amounts =				0.5371	
2	3.148	3.148	0.000	91416	0.5000	0.6165	
2	3.266	3.266	0.000	37263	0.5000	0.6066	
2	3.437	3.437	0.000	32613	0.5000	0.4365	M
2	3.640	3.640	0.000	25275	0.5000	0.3386	M
2	3.879	3.879	0.000	36593	0.5000	0.6333	
		Average of Peak Amounts =				0.5263	
						RPD = 2.03	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
14 PCB-1268							
1	5.085	5.085	0.000	163404	0.5000	0.6176	
1	5.123	5.123	0.000	270114	0.5000	0.5248	
1	5.343	5.343	0.000	157203	0.5000	0.5409	
1	5.494	5.494	0.000	65884	0.5000	0.4640	
1	5.782	5.782	0.000	504463	0.5000	0.5287	
		Average of Peak Amounts =				0.5352	
2	5.781	5.781	0.000	111920	0.5000	0.4725	
2	5.822	5.822	0.000	168591	0.5000	0.4986	
2	6.089	6.089	0.000	120274	0.5000	0.5000	
2	6.297	6.297	0.000	51643	0.5000	0.4482	
2	6.673	6.673	0.000	416000	0.5000	0.5255	
		Average of Peak Amounts =				0.4890	
						RPD = 9.03	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

42-68w/IS@0.5_00009 Amount Added: 1.00 Units: mL

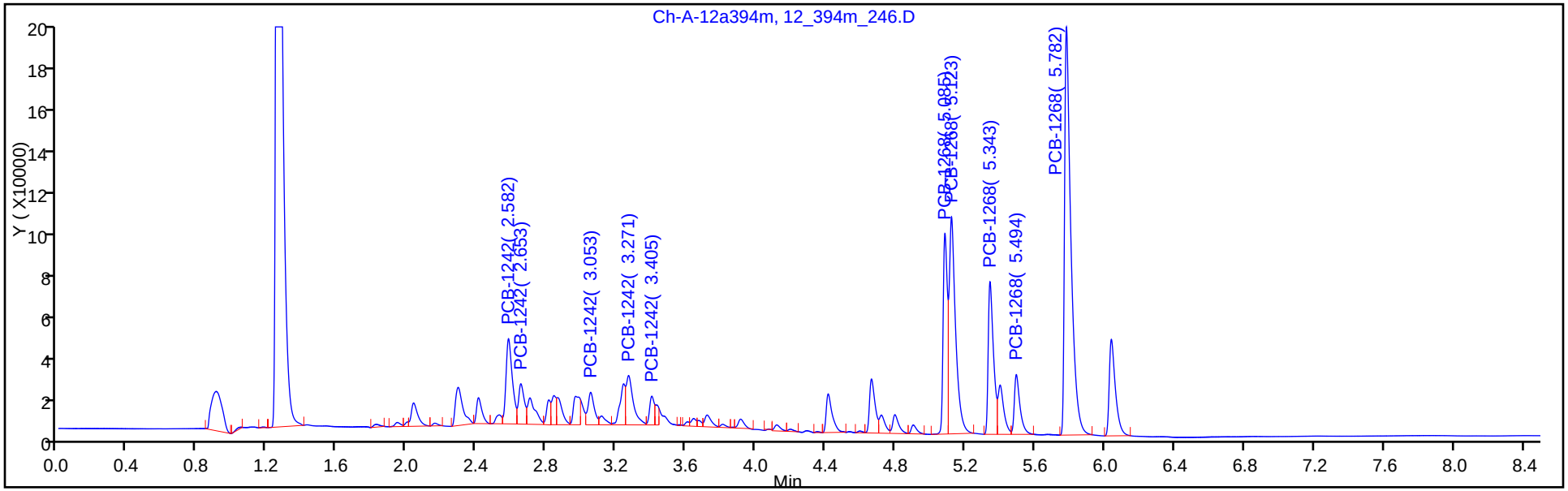
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TestAmerica Buffalo

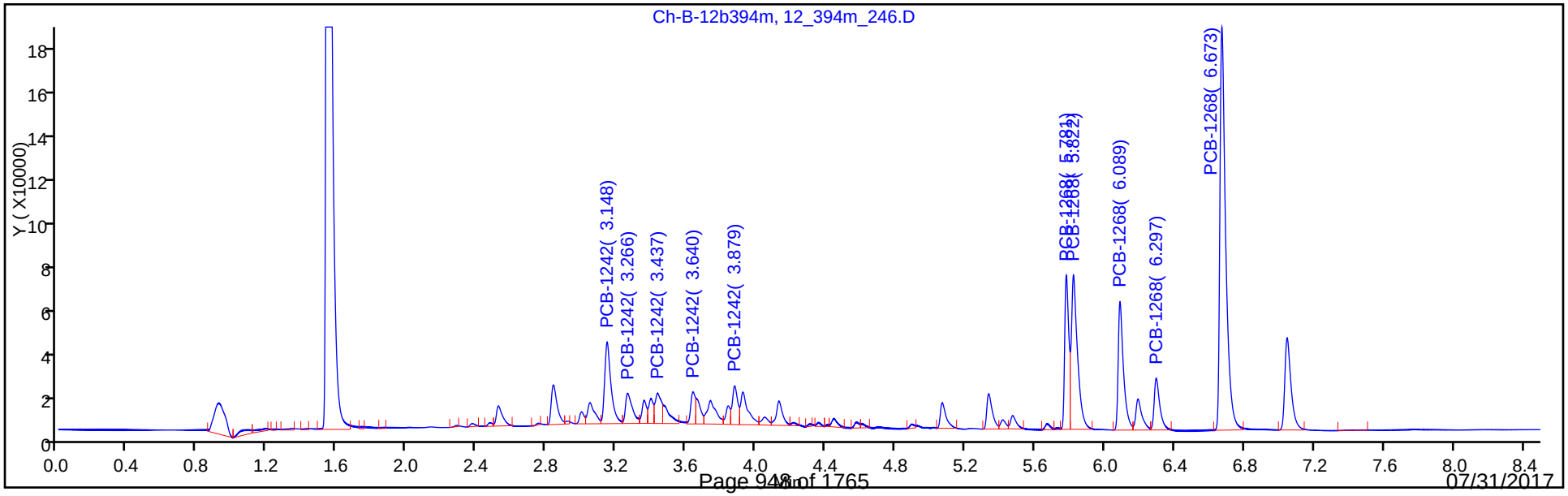
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Injection Date:	20-Jul-2017 11:11:30	Instrument ID:	HP5890-12	Operator ID:	BufTCHROM
Lims ID:	CCV			Worklist Smp#:	7
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	5890-12 PCB IS	Limit Group:	GC - 8082A PCB IS ICAL		

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



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



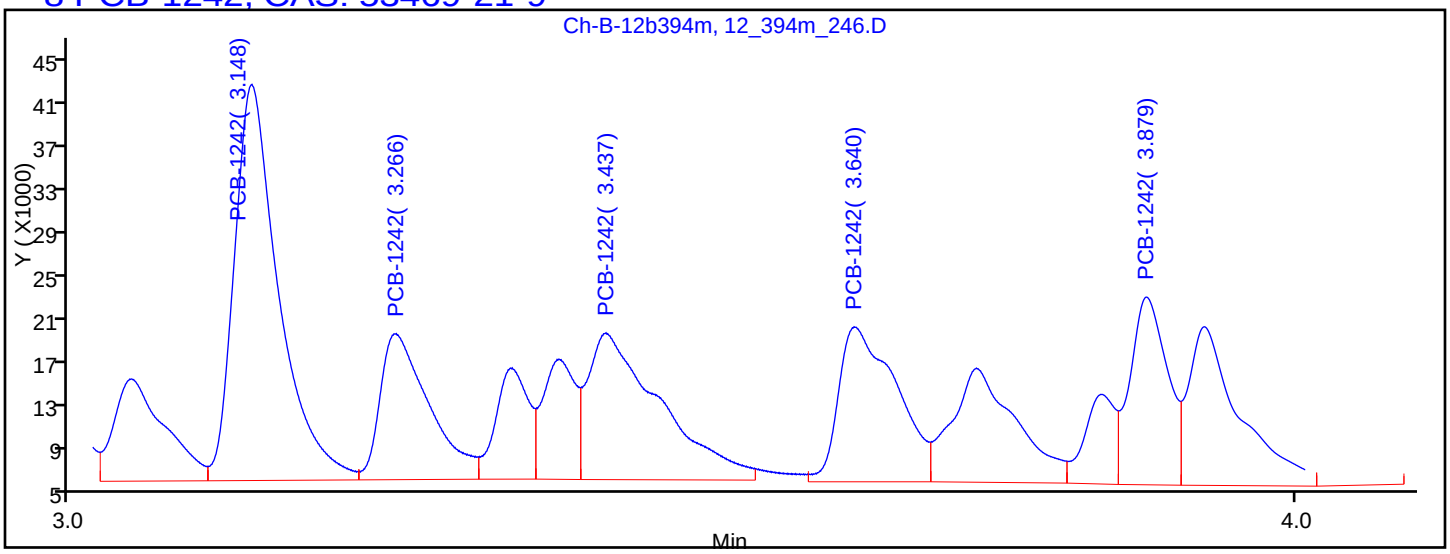
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TestAmerica Buffalo

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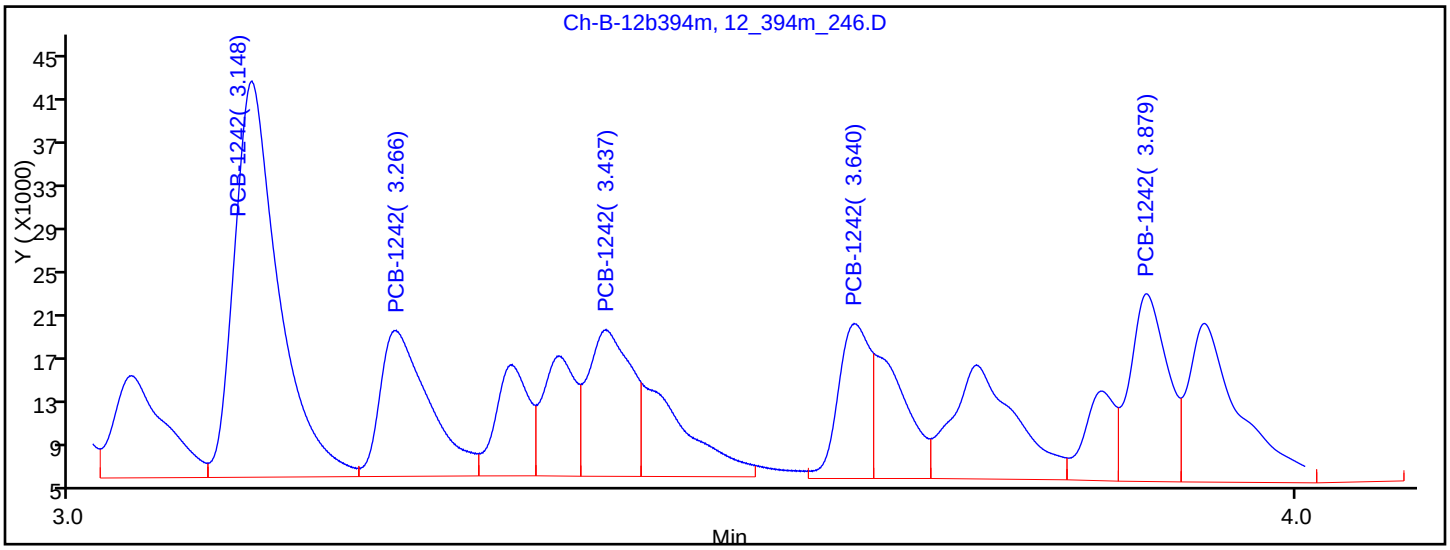
Injection Date:	20-Jul-2017 11:11:30	Instrument ID:	HP5890-12		
Lims ID:	CCV				
Client ID:					
Operator ID:	BufTCHROM	ALS Bottle#:	0	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	5890-12 PCB IS	Limit Group:	GC - 8082A PCB IS ICAL		
Column:		Detector	Ch-B-7b136		

8 PCB-1242, CAS: 53469-21-9



Processing Integration Results

3.148	Response = 91416
3.266	Response = 37263
3.437	Response = 55167
3.640	Response = 46739
3.879	Response = 36593



Manual Integration Results

3.148	Response = 91416	
3.266	Response = 37263	
3.437	Response = 32613	M
3.640	Response = 25275	M
3.879	Response = 36593	

Reviewer: owenj, 20-Jul-2017 14:49:21

Audit Action: Split an Integrated Peak Audit Reason: Split Peak

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1

SDG No.:

Lab Sample ID: CCV 480-367887/8 Calibration Date: 07/20/2017 11:26

Instrument ID: HP5890-12 Calib Start Date: 05/13/2017 13:04

GC Column: ZB-5 ID: 0.53(mm) Calib End Date: 05/13/2017 13:35

Lab File ID: 12_394m_247.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1248 Peak 1	Lin1		0.0289		0.591	0.500	18.1	20.0
PCB-1248 Peak 2	Ave	0.0509	0.0451		0.443	0.500	-11.4	20.0
PCB-1248 Peak 3	Lin1		0.0559		0.460	0.500	-8.1	20.0
PCB-1248 Peak 4	Lin1		0.0976		0.486	0.500	-2.8	20.0
PCB-1248 Peak 5	Lin1		0.0370		0.538	0.500	7.7	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1

SDG No.:

Lab Sample ID: CCV 480-367887/8 Calibration Date: 07/20/2017 11:26

Instrument ID: HP5890-12 Calib Start Date: 05/13/2017 13:04

GC Column: ZB-5 ID: 0.53(mm) Calib End Date: 05/13/2017 13:35

Lab File ID: 12_394m_247.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1248 Peak 1	2.84	2.81	2.87
PCB-1248 Peak 2	3.05	3.02	3.08
PCB-1248 Peak 3	3.24	3.21	3.27
PCB-1248 Peak 4	3.27	3.24	3.30
PCB-1248 Peak 5	3.44	3.41	3.47

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170720-64197.b\12_394m_247.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 20-Jul-2017 11:26:50 ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP5890-12
Sublist: chrom-5890-12 PCB IS*sub5

Method: \\ChromNA\Buffalo\ChromData\HP5890-12\20170720-64197.b\5890-12 PCB IS.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 20-Jul-2017 14:51:22 Calib Date: 13-May-2017 13:35:27
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170513-62487.b\12_390m_257.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK026

First Level Reviewer: owenj Date: 20-Jul-2017 14:50:48

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.257	1.257	0.000	1306352	0.5000	0.5000	
2	1.545	1.545	0.000	1137637	0.5000	0.5000	
						RPD = 0.00	
10 PCB-1248							M
1	2.841	2.841	0.000	37725	0.5000	0.5906	M
1	3.052	3.052	0.000	58931	0.5000	0.4430	M
1	3.241	3.241	0.000	72955	0.5000	0.4597	M
1	3.270	3.270	0.000	127463	0.5000	0.4860	M
1	3.436	3.436	0.000	48309	0.5000	0.5385	M
		Average of Peak Amounts =				0.5036	
2	3.435	3.435	0.000	48394	0.5000	0.7848	M
2	3.637	3.637	0.000	34747	0.5000	0.4493	M
2	3.878	3.878	0.000	61052	0.5000	0.5231	
2	3.925	3.925	0.000	47897	0.5000	0.4964	
2	4.131	4.131	0.000	48807	0.5000	0.4214	
		Average of Peak Amounts =				0.5350	
						RPD = 6.06	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

1248w/IS@ 0.5_00009 Amount Added: 1.00 Units: mL

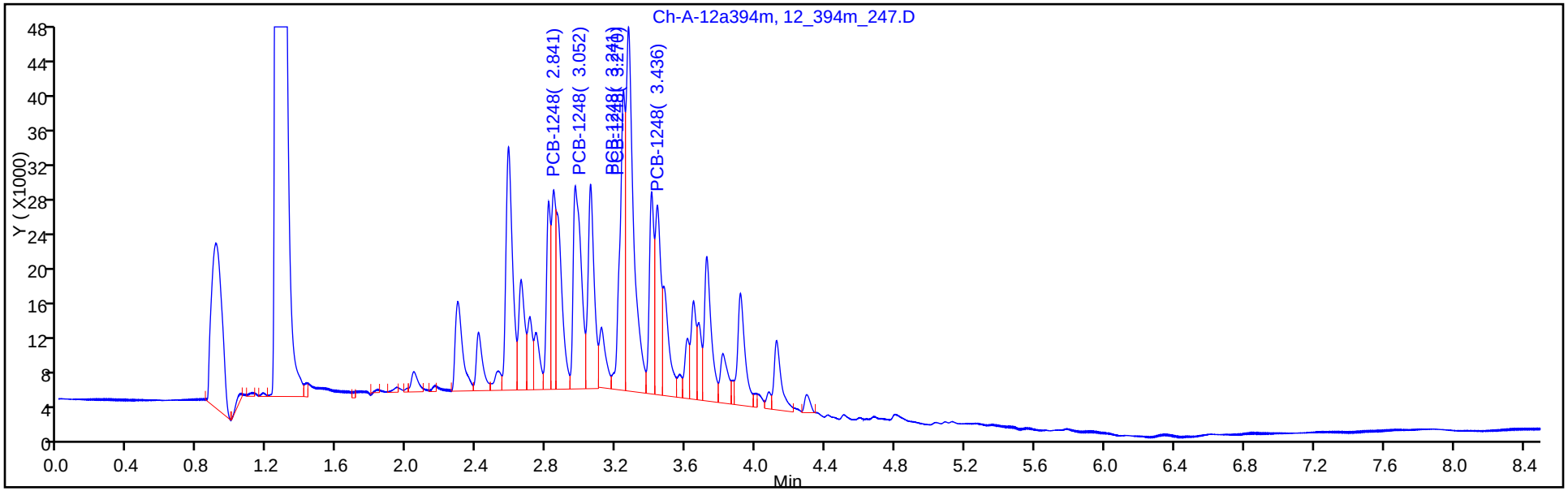
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TestAmerica Buffalo

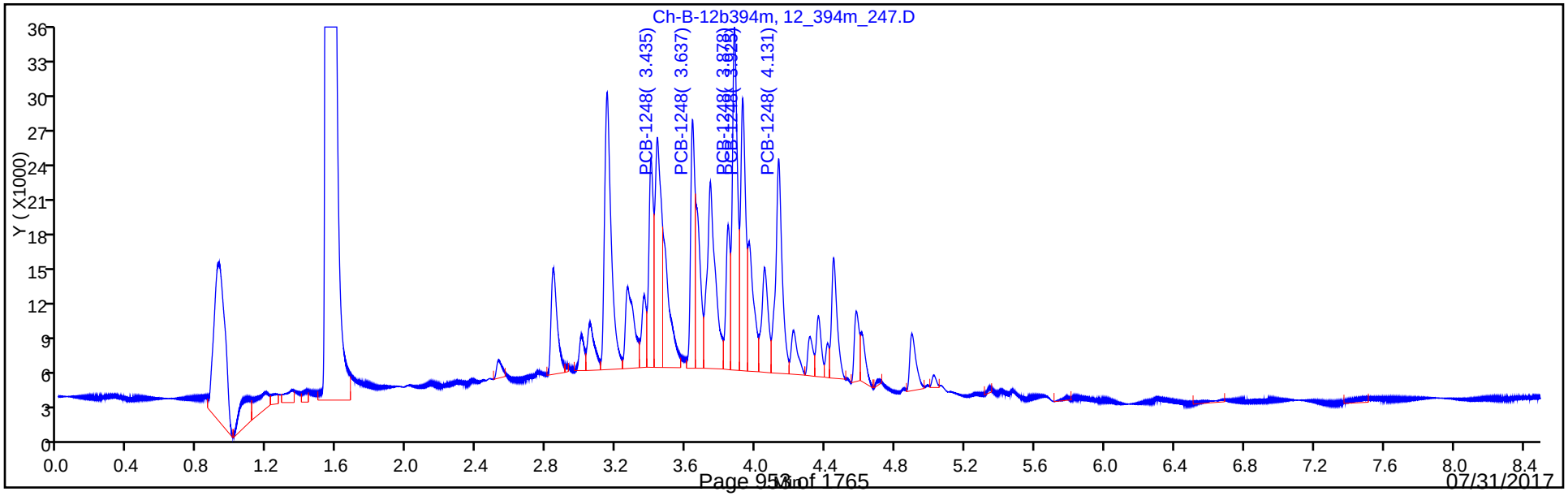
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Injection Date:	20-Jul-2017 11:26:50	Instrument ID:	HP5890-12	Operator ID:	BufTCHROM
Lims ID:	CCV			Worklist Smp#:	8
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	5890-12 PCB IS	Limit Group:	GC - 8082A PCB IS ICAL		

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



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



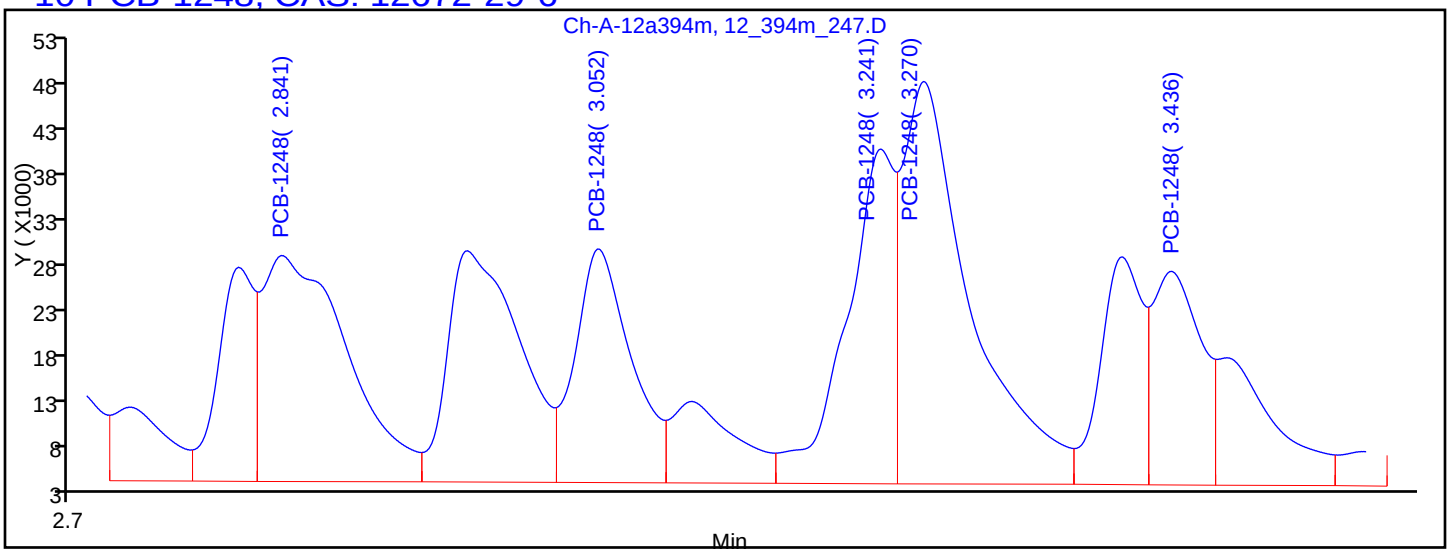
Report Date: 20-Jul-2017 14:51:24 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170720-64197.b\12_394m_247.D

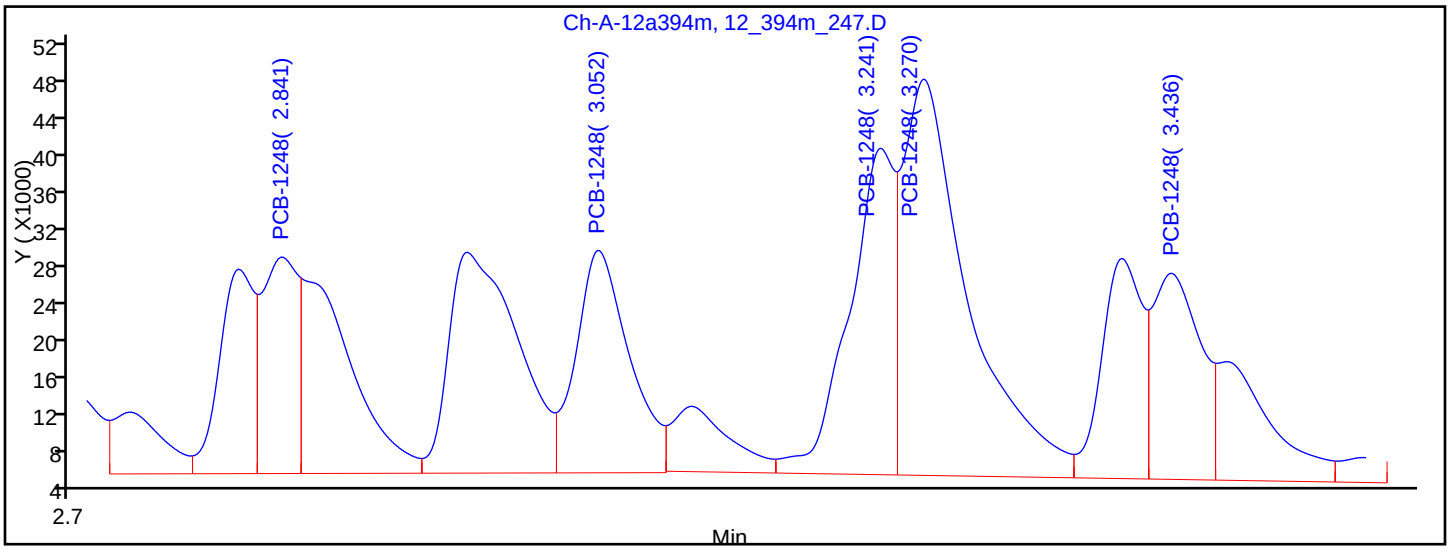
Injection Date:	20-Jul-2017 11:26:50	Instrument ID:	HP5890-12		
Lims ID:	CCV				
Client ID:					
Operator ID:	BufTCHROM	ALS Bottle#:	0	Worklist Smp#:	8
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	5890-12 PCB IS	Limit Group:	GC - 8082A PCB IS ICAL		
Column:		Detector	Ch-A-7A136		

10 PCB-1248, CAS: 12672-29-6



Processing Integration Results

2.841	Response = 97593
3.052	Response = 66669
3.241	Response = 81416
3.270	Response = 138292
3.436	Response = 51791



Manual Integration Results

2.841	Response = 37725	M
3.052	Response = 58931	M
3.241	Response = 72955	M
3.270	Response = 127463	M
3.436	Response = 48309	M

Reviewer: owenj, 20-Jul-2017 14:50:18

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1

SDG No.:

Lab Sample ID: CCV 480-367887/8 Calibration Date: 07/20/2017 11:26

Instrument ID: HP5890-12 Calib Start Date: 05/13/2017 13:04

GC Column: ZB-35 ID: 0.53(mm) Calib End Date: 05/13/2017 13:35

Lab File ID: 12_394m_247.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1248 Peak 1	Lin1		0.0425		0.785	0.500	57.0*	20.0
PCB-1248 Peak 2	Lin1		0.0305		0.449	0.500	-10.1	20.0
PCB-1248 Peak 3	Lin1		0.0537		0.523	0.500	4.6	20.0
PCB-1248 Peak 4	Lin1		0.0421		0.496	0.500	-0.7	20.0
PCB-1248 Peak 5	Lin1		0.0429		0.421	0.500	-15.7	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1

SDG No.:

Lab Sample ID: CCV 480-367887/8 Calibration Date: 07/20/2017 11:26

Instrument ID: HP5890-12 Calib Start Date: 05/13/2017 13:04

GC Column: ZB-35 ID: 0.53(mm) Calib End Date: 05/13/2017 13:35

Lab File ID: 12_394m_247.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1248 Peak 1	3.44	3.41	3.47
PCB-1248 Peak 2	3.64	3.61	3.67
PCB-1248 Peak 3	3.88	3.85	3.91
PCB-1248 Peak 4	3.93	3.90	3.96
PCB-1248 Peak 5	4.13	4.10	4.16

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170720-64197.b\12_394m_247.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 20-Jul-2017 11:26:50 ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP5890-12
Sublist: chrom-5890-12 PCB IS*sub5

Method: \\ChromNA\Buffalo\ChromData\HP5890-12\20170720-64197.b\5890-12 PCB IS.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 20-Jul-2017 14:51:22 Calib Date: 13-May-2017 13:35:27
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170513-62487.b\12_390m_257.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK026

First Level Reviewer: owenj Date: 20-Jul-2017 14:50:48

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.257	1.257	0.000	1306352	0.5000	0.5000	
2	1.545	1.545	0.000	1137637	0.5000	0.5000	
						RPD = 0.00	
10 PCB-1248							M
1	2.841	2.841	0.000	37725	0.5000	0.5906	M
1	3.052	3.052	0.000	58931	0.5000	0.4430	M
1	3.241	3.241	0.000	72955	0.5000	0.4597	M
1	3.270	3.270	0.000	127463	0.5000	0.4860	M
1	3.436	3.436	0.000	48309	0.5000	0.5385	M
		Average of Peak Amounts =				0.5036	
2	3.435	3.435	0.000	48394	0.5000	0.7848	M
2	3.637	3.637	0.000	34747	0.5000	0.4493	M
2	3.878	3.878	0.000	61052	0.5000	0.5231	
2	3.925	3.925	0.000	47897	0.5000	0.4964	
2	4.131	4.131	0.000	48807	0.5000	0.4214	
		Average of Peak Amounts =				0.5350	
						RPD = 6.06	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

1248w/IS@ 0.5_00009 Amount Added: 1.00 Units: mL

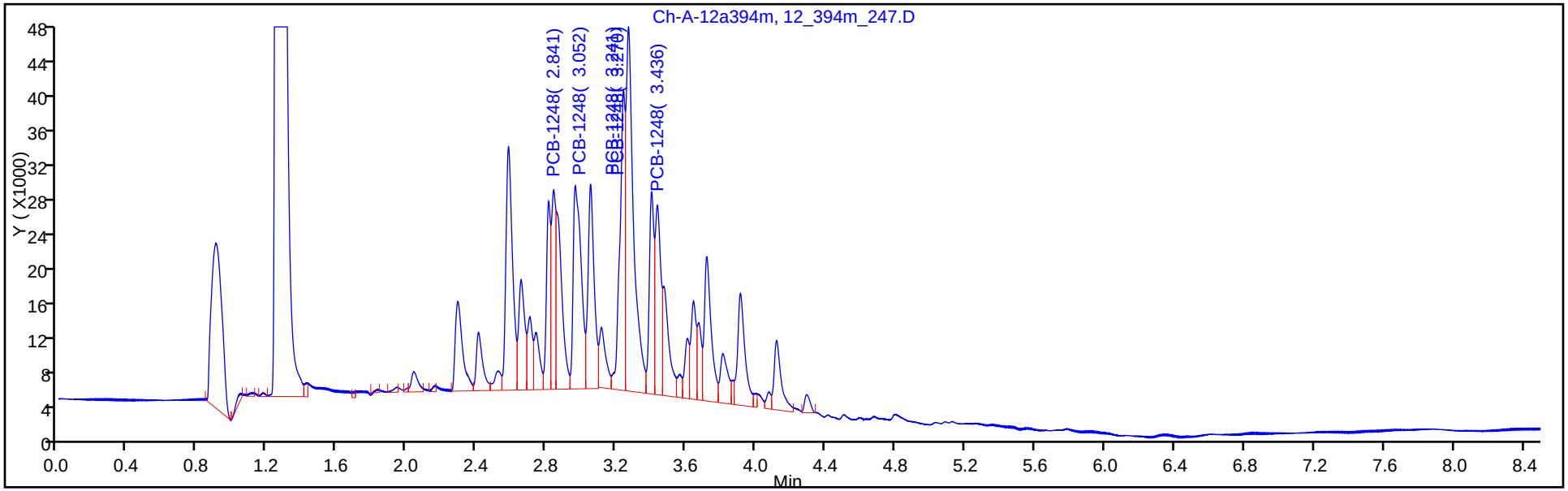
Report Date: 20-Jul-2017 14:51:24 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

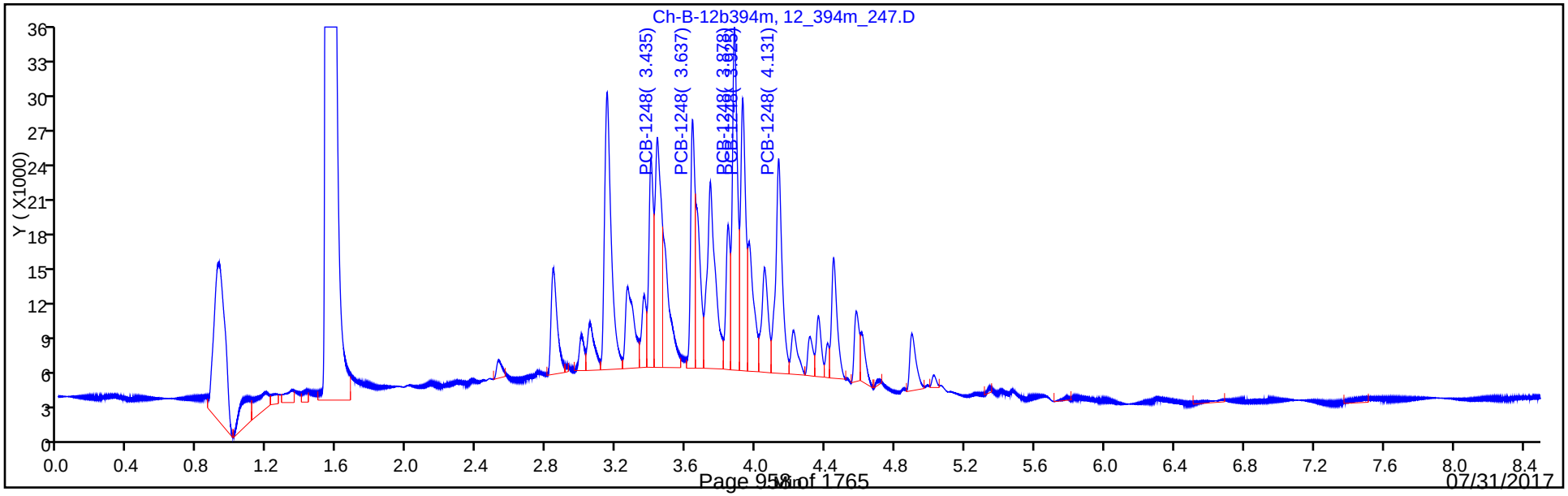
Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170720-64197.b\12_394m_247.D

Injection Date:	20-Jul-2017 11:26:50	Instrument ID:	HP5890-12	Operator ID:	BufTCHROM
Lims ID:	CCV			Worklist Smp#:	8
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	5890-12 PCB IS	Limit Group:	GC - 8082A PCB IS ICAL		

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



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



Report Date: 20-Jul-2017 14:51:24 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170720-64197.b\12_394m_247.D

Injection Date: 20-Jul-2017 11:26:50 Instrument ID: HP5890-12

Lims ID: CCV

Client ID:

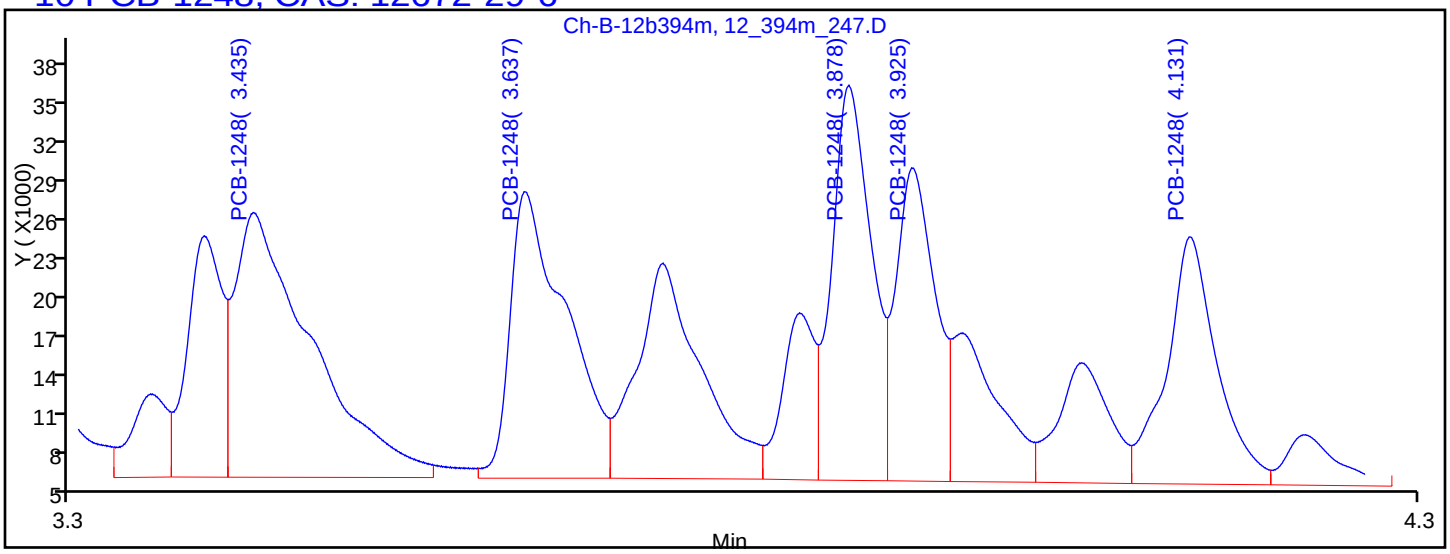
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 8

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 5890-12 PCB IS Limit Group: GC - 8082A PCB IS ICAL

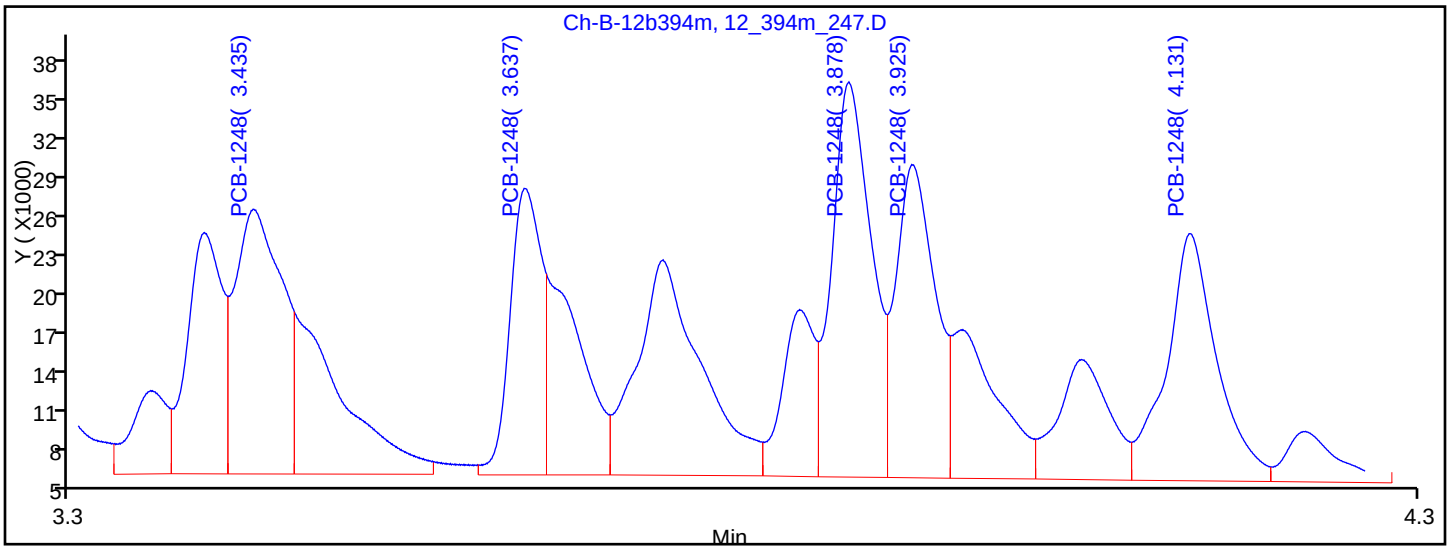
Column: Detector Ch-B-7b136

10 PCB-1248, CAS: 12672-29-6



Processing Integration Results

3.435	Response = 79180
3.637	Response = 63236
3.878	Response = 61052
3.925	Response = 47897
4.131	Response = 48807



Manual Integration Results

3.435	Response = 48394	M
3.637	Response = 34747	M
3.878	Response = 61052	
3.925	Response = 47897	
4.131	Response = 48807	

Reviewer: owenj, 20-Jul-2017 14:50:28

Audit Action: Split an Integrated Peak Audit Reason: Baseline Smoothing

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121321-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 480-367916/1-A

Matrix: Solid | Lab File ID: 12_394m_257.D

Analysis Method: 8082A | Date Collected:

Extraction Method: 3550C | Date Extracted: 07/20/2017 10:58

Sample wt/vol: 2.86(g) | Date Analyzed: 07/20/2017 17:41

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.: 367887 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.17	0.034
11104-28-2	PCB-1221	ND		0.17	0.034
11141-16-5	PCB-1232	ND		0.17	0.034
53469-21-9	PCB-1242	ND		0.17	0.034
12672-29-6	PCB-1248	ND		0.17	0.034
11097-69-1	PCB-1254	ND		0.17	0.082
11096-82-5	PCB-1260	ND		0.17	0.082
37324-23-5	PCB-1262	ND		0.17	0.082
11100-14-4	PCB-1268	ND		0.17	0.082

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	139		60-154
2051-24-3	DCB Decachlorobiphenyl	146		65-174

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170720-64197.b\12_394m_257.D
Lims ID: MB 480-367916/1-A
Client ID:
Sample Type: MB
Inject. Date: 20-Jul-2017 17:41:39 ALS Bottle#: 0 Worklist Smp#: 18
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP5890-12

Method: \\ChromNA\Buffalo\ChromData\HP5890-12\20170720-64197.b\5890-12 PCB IS.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 21-Jul-2017 10:26:40 Calib Date: 13-May-2017 13:35:27
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170513-62487.b\12_390m_257.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK010

First Level Reviewer: owenj Date: 21-Jul-2017 10:26:40

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.261	1.258	0.003	989575	0.5000	0.5000	
2	1.547	1.546	0.001	956292	0.5000	0.5000	
						RPD = 0.00	
$ 6 Tetrachloro-m-xylene							M
1	1.845	1.837	0.008	55370	0.0200	0.0277	M
2	2.128	2.125	0.003	50497	0.0200	0.0294	
						RPD = 6.04	
$ 15 DCB Decachlorobiphenyl							
1	6.059	6.041	0.018	75943	0.0200	0.0292	
2	7.064	7.049	0.015	70825	0.0200	0.0276	
						RPD = 5.73	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

COPPER_00070	Amount Added: 1.00	Units: g	Run Reagent
PCB IS 1B2NB_00037	Amount Added: 10.00	Units: uL	Run Reagent

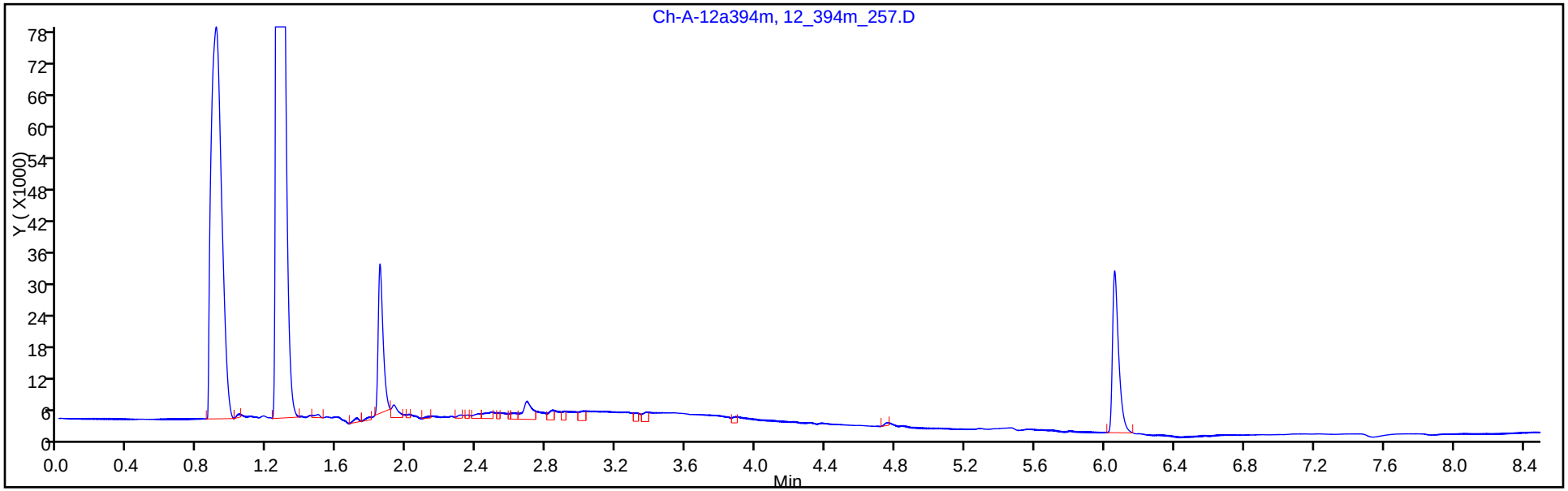
Report Date: 21-Jul-2017 10:26:40 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

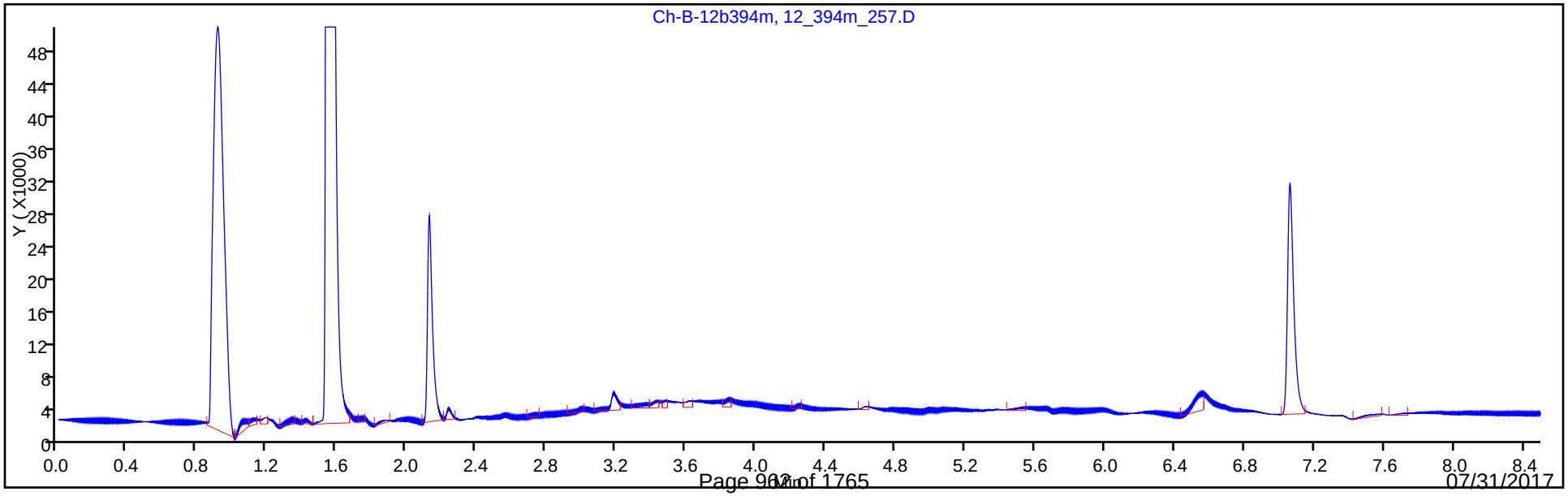
Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170720-64197.b\12_394m_257.D

Injection Date:	20-Jul-2017 17:41:39	Instrument ID:	HP5890-12	Operator ID:	BufTCHROM
Lims ID:	MB 480-367916/1-A			Worklist Smp#:	18
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	5890-12 PCB IS	Limit Group:	GC - 8082A PCB IS ICAL		

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



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



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

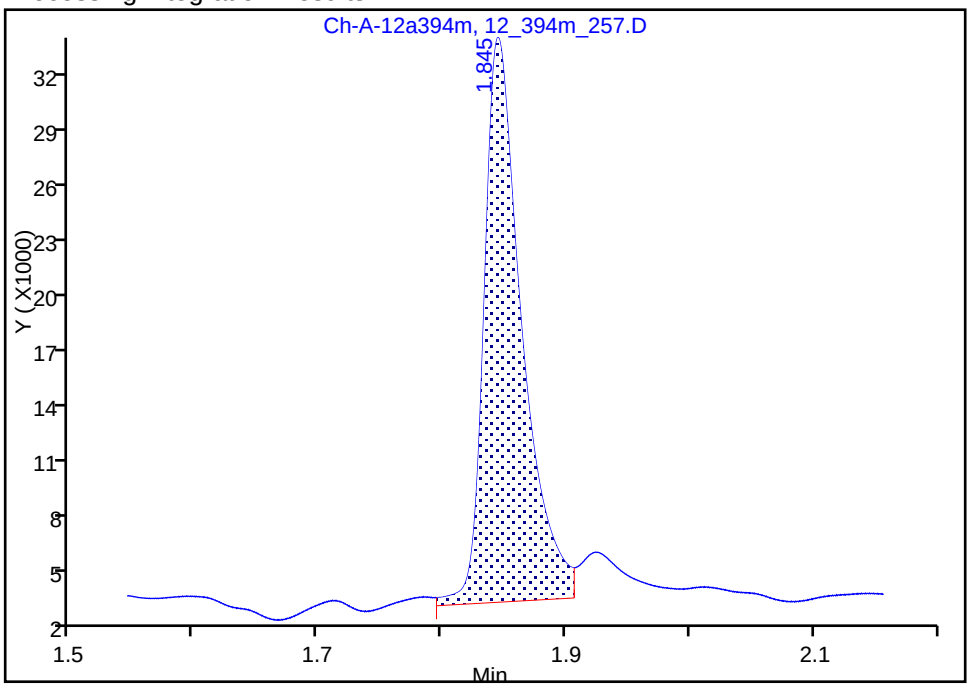
Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170720-64197.b\12_394m_257.D
Injection Date: 20-Jul-2017 17:41:39 Instrument ID: HP5890-12
Lims ID: MB 480-367916/1-A
Client ID:
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 18
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 5890-12 PCB IS Limit Group: GC - 8082A PCB IS ICAL
Column: Detector Ch-A-7A136

$ 6 Tetrachloro-m-xylene, CAS: 877-09-8

Signal: 1

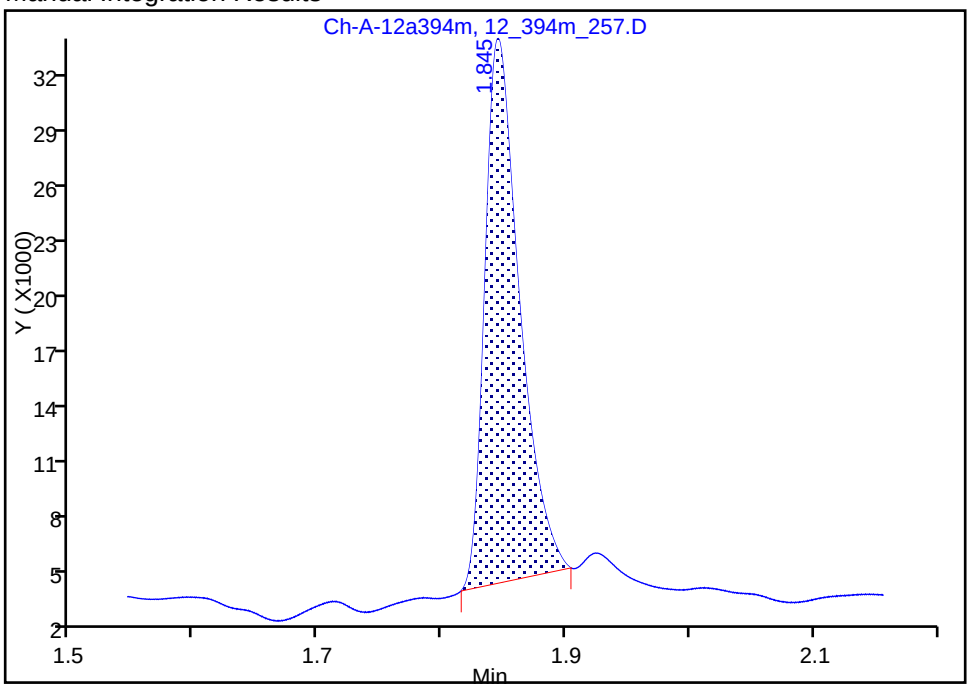
Processing Integration Results

RT: 1.85
Area: 62553
Amount: 0.031286
Amount Units: ng/uL



Manual Integration Results

RT: 1.85
Area: 55370
Amount: 0.027714
Amount Units: ng/uL



Reviewer: owenj, 21-Jul-2017 10:26:16
Audit Action: Manually Integrated Audit Reason: Split Peak

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121321-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 480-367916/1-A

Matrix: Solid | Lab File ID: 12_394m_257.D

Analysis Method: 8082A | Date Collected:

Extraction Method: 3550C | Date Extracted: 07/20/2017 10:58

Sample wt/vol: 2.86(g) | Date Analyzed: 07/20/2017 17:41

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.: 367887 | Units: mg/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	147		60-154
2051-24-3	DCB Decachlorobiphenyl	138		65-174

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170720-64197.b\12_394m_257.D
Lims ID: MB 480-367916/1-A
Client ID:
Sample Type: MB
Inject. Date: 20-Jul-2017 17:41:39 ALS Bottle#: 0 Worklist Smp#: 18
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP5890-12

Method: \\ChromNA\Buffalo\ChromData\HP5890-12\20170720-64197.b\5890-12 PCB IS.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 21-Jul-2017 10:26:40 Calib Date: 13-May-2017 13:35:27
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170513-62487.b\12_390m_257.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK010

First Level Reviewer: owenj Date: 21-Jul-2017 10:26:40

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.261	1.258	0.003	989575	0.5000	0.5000	
2	1.547	1.546	0.001	956292	0.5000	0.5000	
						RPD = 0.00	
$ 6 Tetrachloro-m-xylene							M
1	1.845	1.837	0.008	55370	0.0200	0.0277	M
2	2.128	2.125	0.003	50497	0.0200	0.0294	
						RPD = 6.04	
$ 15 DCB Decachlorobiphenyl							
1	6.059	6.041	0.018	75943	0.0200	0.0292	
2	7.064	7.049	0.015	70825	0.0200	0.0276	
						RPD = 5.73	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

COPPER_00070	Amount Added: 1.00	Units: g	Run Reagent
PCB IS 1B2NB_00037	Amount Added: 10.00	Units: uL	Run Reagent

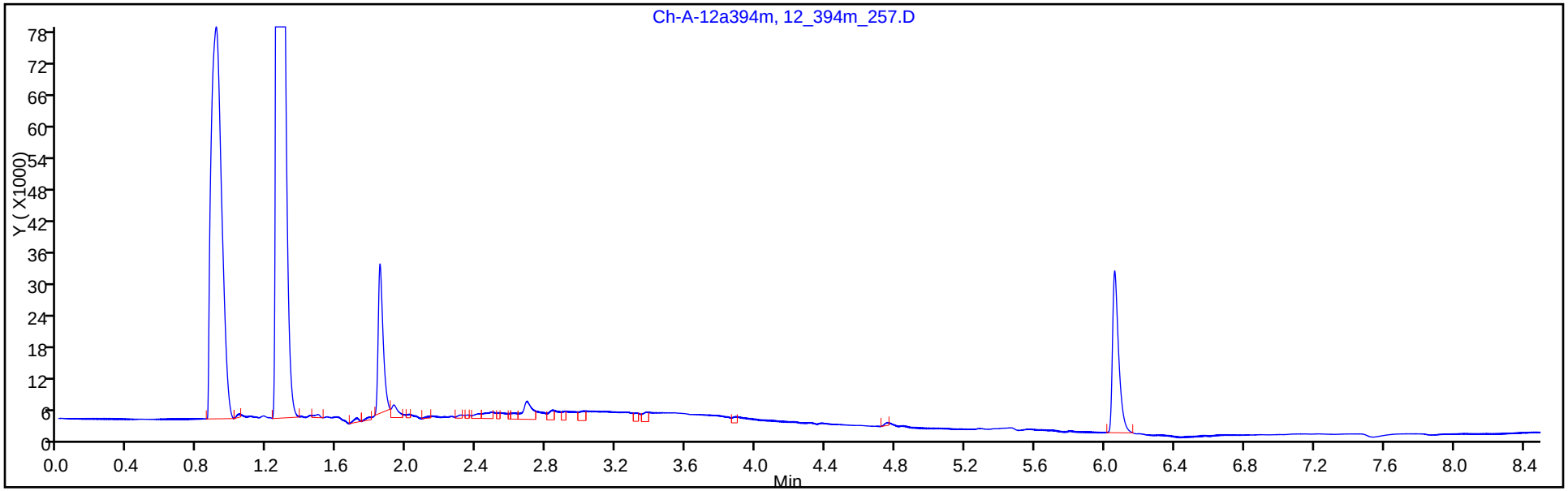
Report Date: 21-Jul-2017 10:26:40 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

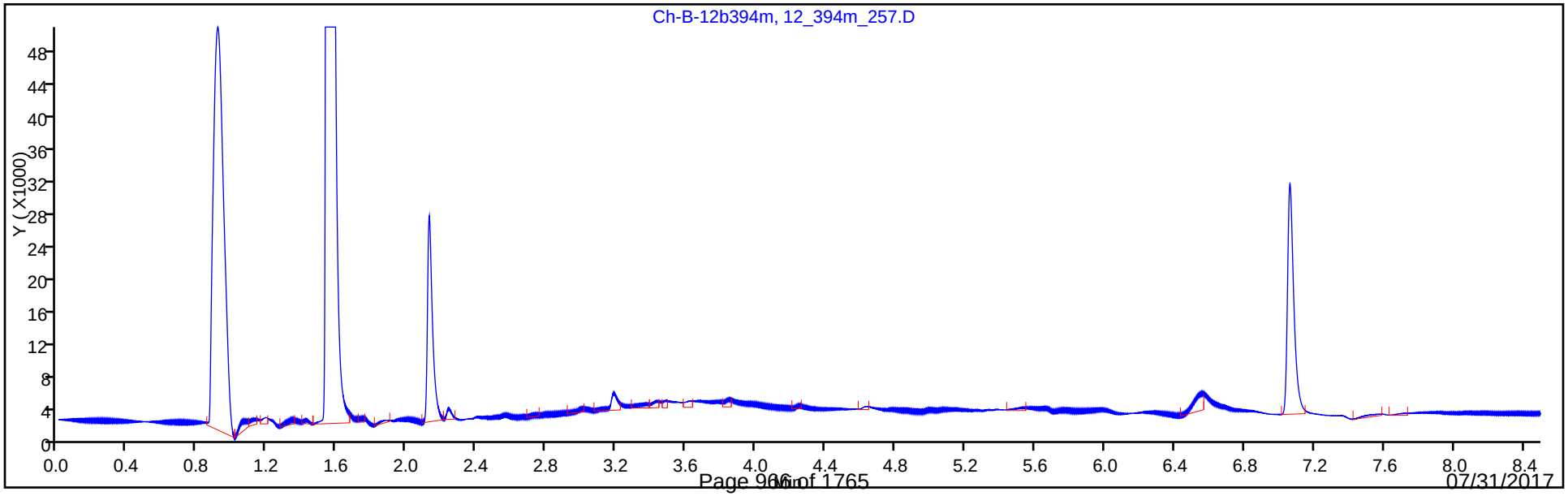
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Injection Date:	20-Jul-2017 17:41:39	Instrument ID:	HP5890-12	Operator ID:	BufTCHROM
Lims ID:	MB 480-367916/1-A			Worklist Smp#:	18
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	5890-12 PCB IS	Limit Group:	GC - 8082A PCB IS ICAL		

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



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



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121321-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 480-367916/2-A

Matrix: Solid | Lab File ID: 12_394m_258.D

Analysis Method: 8082A | Date Collected:

Extraction Method: 3550C | Date Extracted: 07/20/2017 10:58

Sample wt/vol: 2.89(g) | Date Analyzed: 07/20/2017 17:56

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.: 367887 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	2.30		0.17	0.034
11096-82-5	PCB-1260	2.77		0.17	0.081

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	154		60-154
2051-24-3	DCB Decachlorobiphenyl	145		65-174

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170720-64197.b\12_394m_258.D
Lims ID: LCS 480-367916/2-A
Client ID:
Sample Type: LCS
Inject. Date: 20-Jul-2017 17:56:59 ALS Bottle#: 0 Worklist Smp#: 19
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP5890-12

Method: \\ChromNA\Buffalo\ChromData\HP5890-12\20170720-64197.b\5890-12 PCB IS.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 21-Jul-2017 10:27:12 Calib Date: 13-May-2017 13:35:27
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170513-62487.b\12_390m_257.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK010

First Level Reviewer: owenj Date: 21-Jul-2017 10:27:12

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.259	1.258	0.001	1069323	0.5000	0.5000	
2	1.546	1.546	0.000	1052360	0.5000	0.5000	
						RPD = 0.00	
$ 6 Tetrachloro-m-xylene							
1	1.839	1.837	0.002	66362	0.0200	0.0307	
2	2.125	2.125	0.000	54327	0.0200	0.0288	
						RPD = 6.51	
9 PCB-1016							M
1	2.039	2.039	0.000	27393	0.5000	0.4710	
1	2.413	2.410	0.003	38276	0.5000	0.6180	
1	2.584	2.582	0.002	151190	0.5000	0.7157	
1	2.656	2.653	0.003	63984	0.5000	0.7841	
1	2.707	2.705	0.002	37343	0.5000	0.7377	M
		Average of Peak Amounts =				0.6653	
2	2.525	2.525	0.000	34316	0.5000	0.8003	
2	2.841	2.839	0.002	67088	0.5000	0.7611	
2	3.051	3.049	0.002	45302	0.5000	0.8283	
2	3.149	3.147	0.002	144491	0.5000	0.8532	
2	3.266	3.265	0.001	58687	0.5000	0.8325	
		Average of Peak Amounts =				0.8151	
						RPD = 20.23	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
12 PCB-1260							M
1	4.077	4.074	0.003	97619	0.5000	0.8096	M
1	4.293	4.289	0.004	138248	0.5000	0.8416	
1	4.417	4.414	0.003	77895	0.5000	0.8327	
1	4.599	4.595	0.004	58754	0.5000	0.7545	
1	5.031	5.028	0.003	81124	0.5000	0.7689	
		Average of Peak Amounts =				0.8015	
2	5.021	5.019	0.002	75717	0.5000	0.6874	
2	5.339	5.337	0.002	58463	0.5000	0.6368	
2	5.407	5.405	0.002	44984	0.5000	0.6539	
2	5.472	5.470	0.002	153116	0.5000	0.6273	
2	5.829	5.827	0.002	100841	0.5000	0.6283	
		Average of Peak Amounts =				0.6467	
						RPD = 21.37	
$ 15 DCB Decachlorobiphenyl							
1	6.045	6.041	0.004	81282	0.0200	0.0290	
2	7.053	7.049	0.004	75084	0.0200	0.0266	
						RPD = 8.51	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

COPPER_00070	Amount Added: 1.00	Units: g	Run Reagent
PCB IS 1B2NB_00037	Amount Added: 10.00	Units: uL	Run Reagent

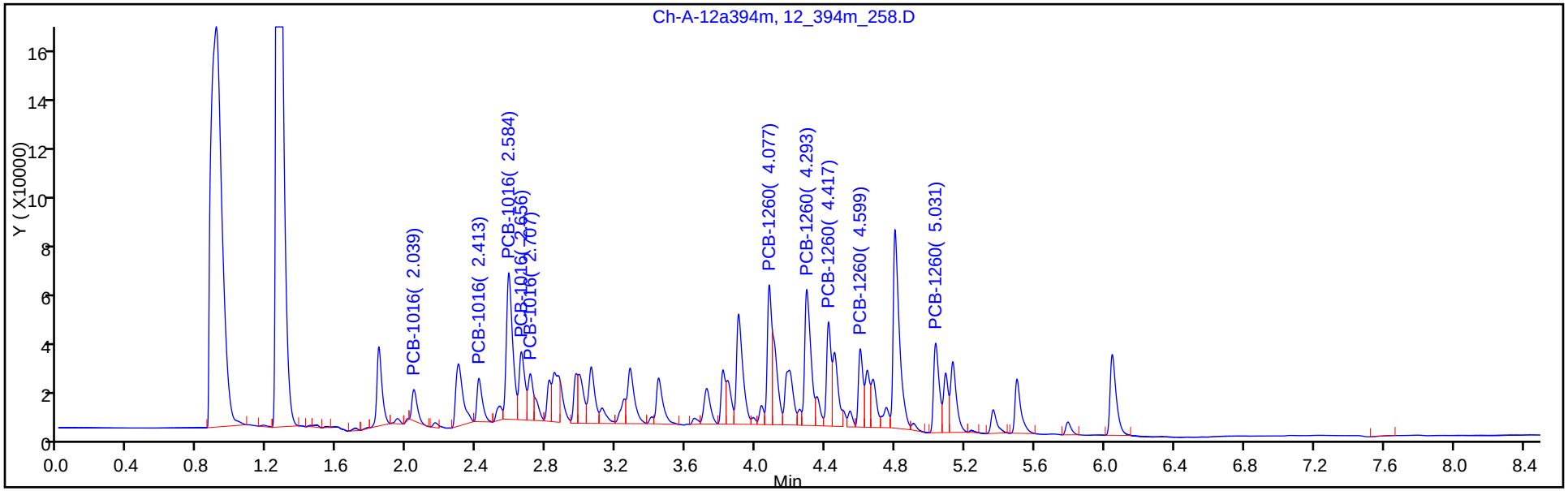
Report Date: 21-Jul-2017 10:27:12 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

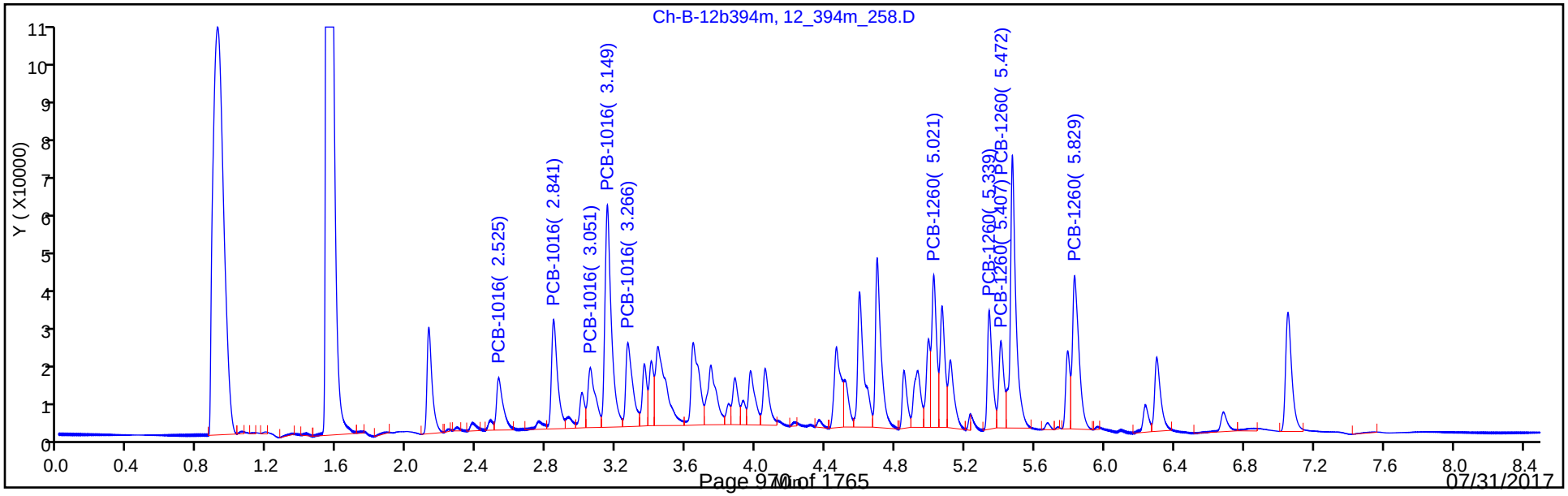
Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170720-64197.b\12_394m_258.D

Injection Date:	20-Jul-2017 17:56:59	Instrument ID:	HP5890-12	Operator ID:	BufTCHROM
Lims ID:	LCS 480-367916/2-A			Worklist Smp#:	19
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	5890-12 PCB IS	Limit Group:	GC - 8082A PCB IS ICAL		

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



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



Report Date: 21-Jul-2017 10:27:12 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170720-64197.b\12_394m_258.D

Injection Date: 20-Jul-2017 17:56:59 Instrument ID: HP5890-12

Lims ID: LCS 480-367916/2-A

Client ID:

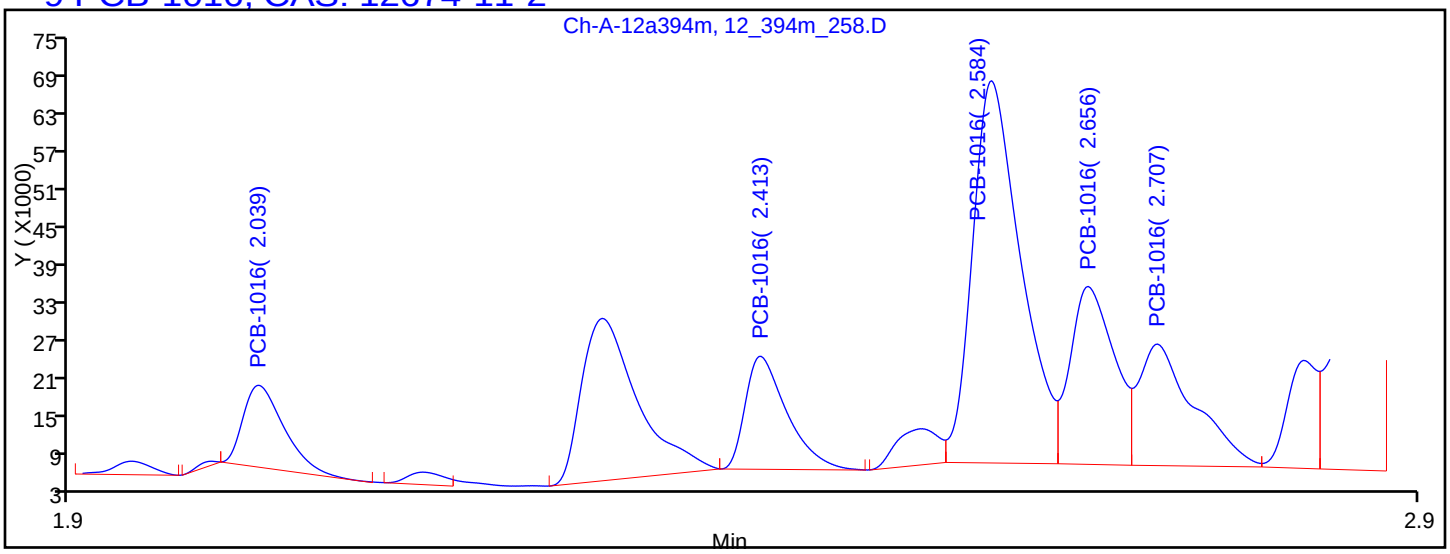
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 19

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 5890-12 PCB IS Limit Group: GC - 8082A PCB IS ICAL

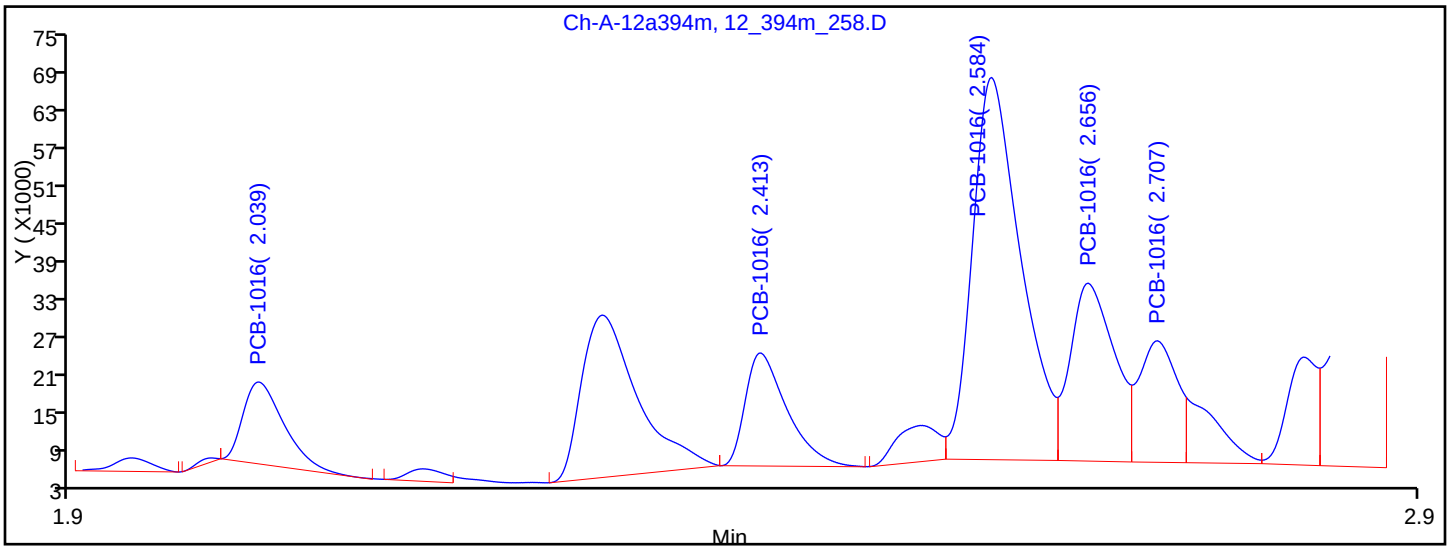
Column: Detector Ch-A-7A136

9 PCB-1016, CAS: 12674-11-2



Processing Integration Results

2.039	Response = 27393
2.413	Response = 38276
2.584	Response = 151190
2.656	Response = 63984
2.707	Response = 54466



Manual Integration Results

2.039	Response = 27393	
2.413	Response = 38276	
2.584	Response = 151190	
2.656	Response = 63984	
2.707	Response = 37343	M

Reviewer: owenj, 21-Jul-2017 10:26:51

Audit Action: Split an Integrated Peak Audit Reason: Split Peak

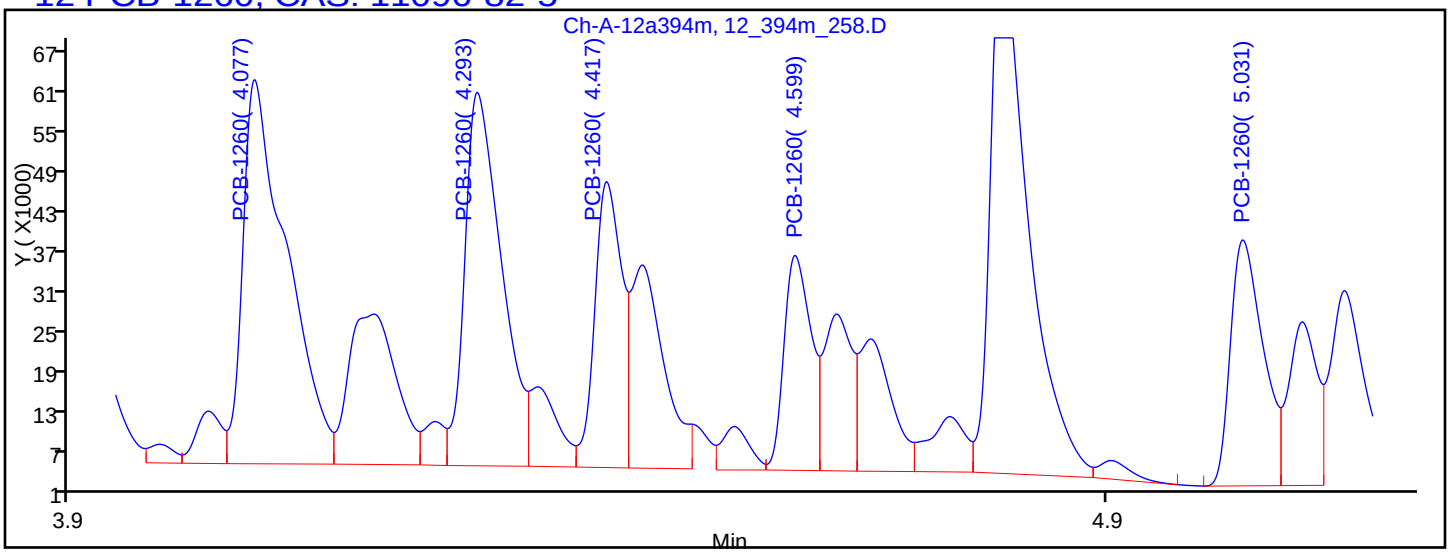
Report Date: 21-Jul-2017 10:27:13 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

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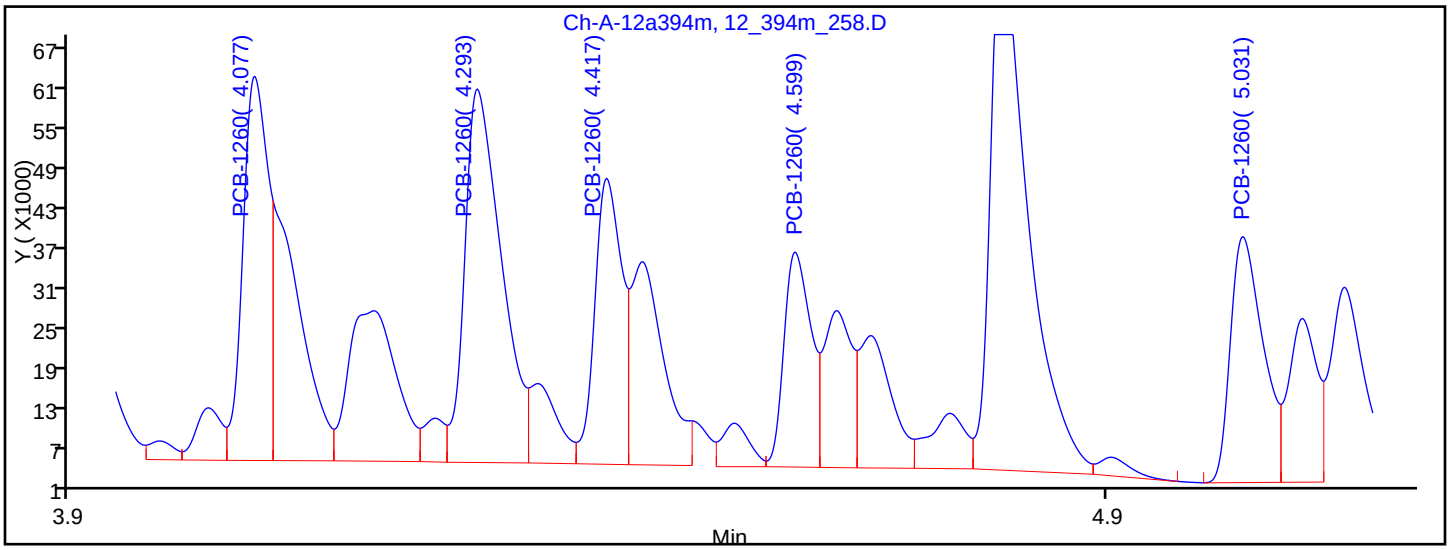
Injection Date:	20-Jul-2017 17:56:59	Instrument ID:	HP5890-12		
Lims ID:	LCS 480-367916/2-A				
Client ID:					
Operator ID:	BufTCHROM	ALS Bottle#:	0	Worklist Smp#:	19
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	5890-12 PCB IS	Limit Group:	GC - 8082A PCB IS ICAL		
Column:		Detector	Ch-A-7A136		

12 PCB-1260, CAS: 11096-82-5



Processing Integration Results

4.077	Response = 169965
4.293	Response = 138248
4.417	Response = 77895
4.599	Response = 58754
5.031	Response = 81124



Manual Integration Results

4.077	Response = 97619	M
4.293	Response = 138248	
4.417	Response = 77895	
4.599	Response = 58754	
5.031	Response = 81124	

Reviewer: owenj, 21-Jul-2017 10:26:54

Audit Action: Split an Integrated Peak Audit Reason: Split Peak

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121321-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 480-367916/2-A

Matrix: Solid | Lab File ID: 12_394m_258.D

Analysis Method: 8082A | Date Collected:

Extraction Method: 3550C | Date Extracted: 07/20/2017 10:58

Sample wt/vol: 2.89(g) | Date Analyzed: 07/20/2017 17:56

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.: 367887 | Units: mg/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	144		60-154
2051-24-3	DCB Decachlorobiphenyl	133		65-174

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170720-64197.b\12_394m_258.D
Lims ID: LCS 480-367916/2-A
Client ID:
Sample Type: LCS
Inject. Date: 20-Jul-2017 17:56:59 ALS Bottle#: 0 Worklist Smp#: 19
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP5890-12

Method: \\ChromNA\Buffalo\ChromData\HP5890-12\20170720-64197.b\5890-12 PCB IS.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 21-Jul-2017 10:27:12 Calib Date: 13-May-2017 13:35:27
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170513-62487.b\12_390m_257.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK010

First Level Reviewer: owenj Date: 21-Jul-2017 10:27:12

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.259	1.258	0.001	1069323	0.5000	0.5000	
2	1.546	1.546	0.000	1052360	0.5000	0.5000	
						RPD = 0.00	
$ 6 Tetrachloro-m-xylene							
1	1.839	1.837	0.002	66362	0.0200	0.0307	
2	2.125	2.125	0.000	54327	0.0200	0.0288	
						RPD = 6.51	
9 PCB-1016							M
1	2.039	2.039	0.000	27393	0.5000	0.4710	
1	2.413	2.410	0.003	38276	0.5000	0.6180	
1	2.584	2.582	0.002	151190	0.5000	0.7157	
1	2.656	2.653	0.003	63984	0.5000	0.7841	
1	2.707	2.705	0.002	37343	0.5000	0.7377	M
		Average of Peak Amounts =				0.6653	
2	2.525	2.525	0.000	34316	0.5000	0.8003	
2	2.841	2.839	0.002	67088	0.5000	0.7611	
2	3.051	3.049	0.002	45302	0.5000	0.8283	
2	3.149	3.147	0.002	144491	0.5000	0.8532	
2	3.266	3.265	0.001	58687	0.5000	0.8325	
		Average of Peak Amounts =				0.8151	
						RPD = 20.23	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
12 PCB-1260							M
1	4.077	4.074	0.003	97619	0.5000	0.8096	M
1	4.293	4.289	0.004	138248	0.5000	0.8416	
1	4.417	4.414	0.003	77895	0.5000	0.8327	
1	4.599	4.595	0.004	58754	0.5000	0.7545	
1	5.031	5.028	0.003	81124	0.5000	0.7689	
		Average of Peak Amounts =				0.8015	
2	5.021	5.019	0.002	75717	0.5000	0.6874	
2	5.339	5.337	0.002	58463	0.5000	0.6368	
2	5.407	5.405	0.002	44984	0.5000	0.6539	
2	5.472	5.470	0.002	153116	0.5000	0.6273	
2	5.829	5.827	0.002	100841	0.5000	0.6283	
		Average of Peak Amounts =				0.6467	
						RPD = 21.37	
$ 15 DCB Decachlorobiphenyl							
1	6.045	6.041	0.004	81282	0.0200	0.0290	
2	7.053	7.049	0.004	75084	0.0200	0.0266	
						RPD = 8.51	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

COPPER_00070	Amount Added: 1.00	Units: g	Run Reagent
PCB IS 1B2NB_00037	Amount Added: 10.00	Units: uL	Run Reagent

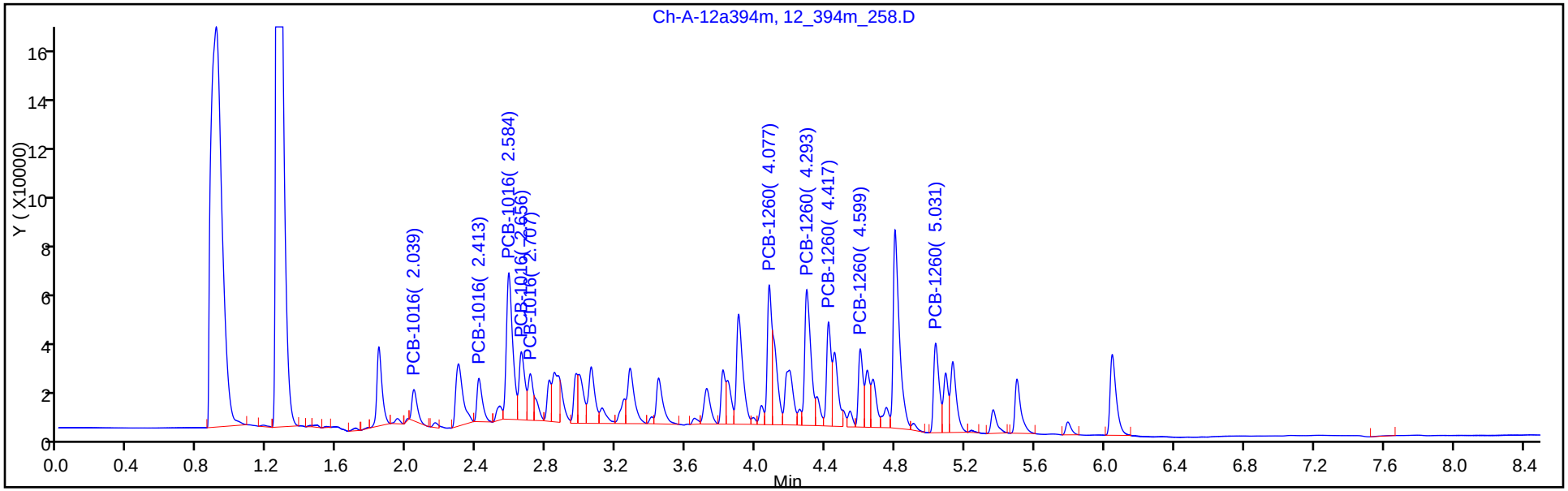
Report Date: 21-Jul-2017 10:27:13 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

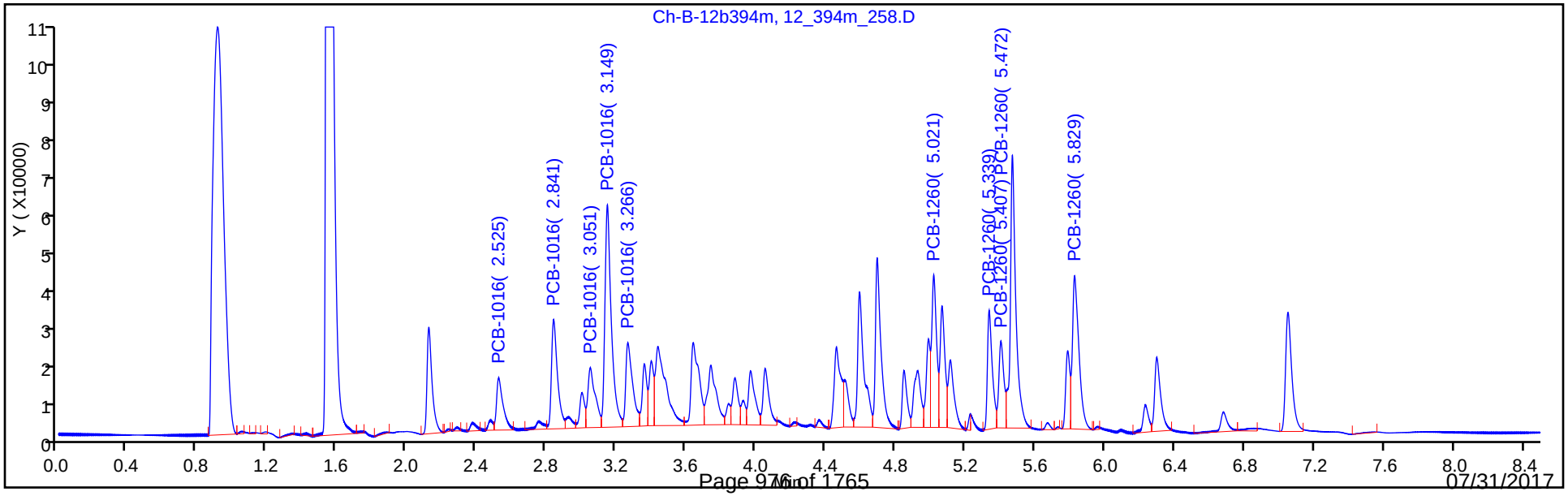
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Injection Date:	20-Jul-2017 17:56:59	Instrument ID:	HP5890-12	Operator ID:	BufTCHROM
Lims ID:	LCS 480-367916/2-A			Worklist Smp#:	19
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	5890-12 PCB IS	Limit Group:	GC - 8082A PCB IS ICAL		

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



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



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121321-1

SDG No.:

Client Sample ID: TP-04 MS | Lab Sample ID: 480-121321-4 MS

Matrix: Solid | Lab File ID: 12_394m_259.D

Analysis Method: 8082A | Date Collected: 07/19/2017 13:00

Extraction Method: 3550C | Date Extracted: 07/20/2017 10:58

Sample wt/vol: 2.31(g) | Date Analyzed: 07/20/2017 18:12

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-5 ID: 0.53(mm)

% Moisture: 17.9 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 367887 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	3.72		0.26	0.052
11104-28-2	PCB-1221	ND		0.26	0.052
11141-16-5	PCB-1232	ND		0.26	0.052
53469-21-9	PCB-1242	ND		0.26	0.052
12672-29-6	PCB-1248	ND		0.26	0.052
11097-69-1	PCB-1254	ND		0.26	0.12
11096-82-5	PCB-1260	4.08		0.26	0.12
37324-23-5	PCB-1262	ND		0.26	0.12
11100-14-4	PCB-1268	ND		0.26	0.12

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	150		60-154
2051-24-3	DCB Decachlorobiphenyl	137		65-174

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170720-64197.b\12_394m_259.D
Lims ID: 480-121321-B-4-A MS
Client ID: TP-04
Sample Type: MS
Inject. Date: 20-Jul-2017 18:12:20 ALS Bottle#: 0 Worklist Smp#: 20
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP5890-12

Method: \\ChromNA\Buffalo\ChromData\HP5890-12\20170720-64197.b\5890-12 PCB IS.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 21-Jul-2017 10:29:22 Calib Date: 13-May-2017 13:35:27
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170513-62487.b\12_390m_257.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK010

First Level Reviewer: owenj Date: 21-Jul-2017 10:29:22

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.258	1.258	0.000	1039076	0.5000	0.5000	
2	1.545	1.546	-0.001	1017898	0.5000	0.5000	
						RPD = 0.00	
$ 6 Tetrachloro-m-xylene							M
1	1.837	1.837	0.000	62965	0.0200	0.0300	M
2	2.125	2.125	0.000	51964	0.0200	0.0285	
						RPD = 5.25	
9 PCB-1016							M
1	2.039	2.039	0.000	39261	0.5000	0.6947	
1	2.411	2.410	0.001	36373	0.5000	0.6044	M
1	2.583	2.582	0.001	144230	0.5000	0.7026	M
1	2.654	2.653	0.001	63027	0.5000	0.7950	M
1	2.705	2.705	0.000	36033	0.5000	0.7325	M
		Average of Peak Amounts =				0.7058	
2	2.525	2.525	0.000	32113	0.5000	0.7737	
2	2.839	2.839	0.000	60611	0.5000	0.7103	
2	3.051	3.049	0.002	41189	0.5000	0.7787	
2	3.149	3.147	0.002	131919	0.5000	0.8051	
2	3.265	3.265	0.000	54400	0.5000	0.7978	
		Average of Peak Amounts =				0.7731	
						RPD = 9.10	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
12 PCB-1260							M
1	4.075	4.074	0.001	97943	0.5000	0.8367	M
1	4.290	4.289	0.001	127351	0.5000	0.7973	M
1	4.415	4.414	0.001	73054	0.5000	0.8036	M
1	4.597	4.595	0.002	55213	0.5000	0.7298	M
1	5.030	5.028	0.002	71933	0.5000	0.7008	
		Average of Peak Amounts =				0.7737	
2	5.019	5.019	0.000	69612	0.5000	0.6532	
2	5.338	5.337	0.001	53510	0.5000	0.6021	
2	5.405	5.405	0.000	41219	0.5000	0.6190	
2	5.471	5.470	0.001	137097	0.5000	0.5803	
2	5.827	5.827	0.000	89024	0.5000	0.5734	
		Average of Peak Amounts =				0.6056	
						RPD = 24.37	
2 1260 Res 1							
1	5.030	5.028	0.002	71933		NC	
2	5.338	5.337	0.001	53510		NC	
4 1260 Res 2							
1	5.087	5.085	0.002	41078		NC	
2	5.405	5.405	-0.001	41219		NC	
3 1260 Res 3							
1	5.128	5.126	0.002	61577		NC	
2	5.471	5.470	0.001	137097		NC	
$ 15 DCB Decachlorobiphenyl							
1	6.042	6.041	0.001	74596	0.0200	0.0273	
2	7.051	7.049	0.002	71647	0.0200	0.0262	
						RPD = 4.16	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

COPPER_00070	Amount Added: 1.00	Units: g	Run Reagent
PCB IS 1B2NB_00037	Amount Added: 10.00	Units: uL	Run Reagent

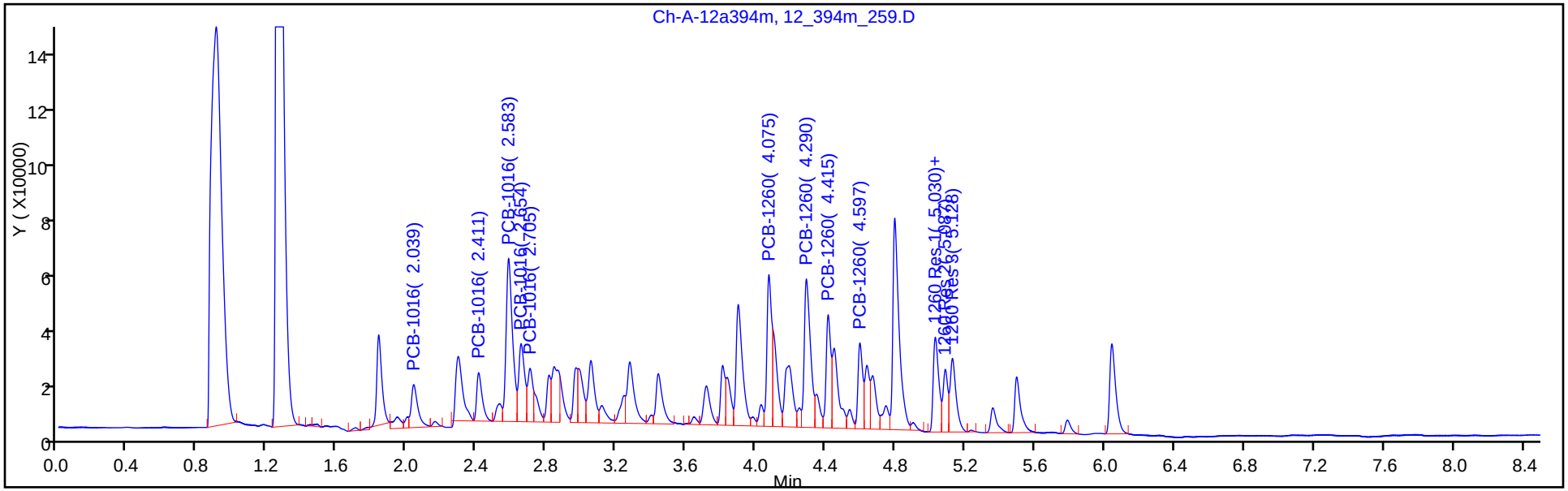
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TestAmerica Buffalo

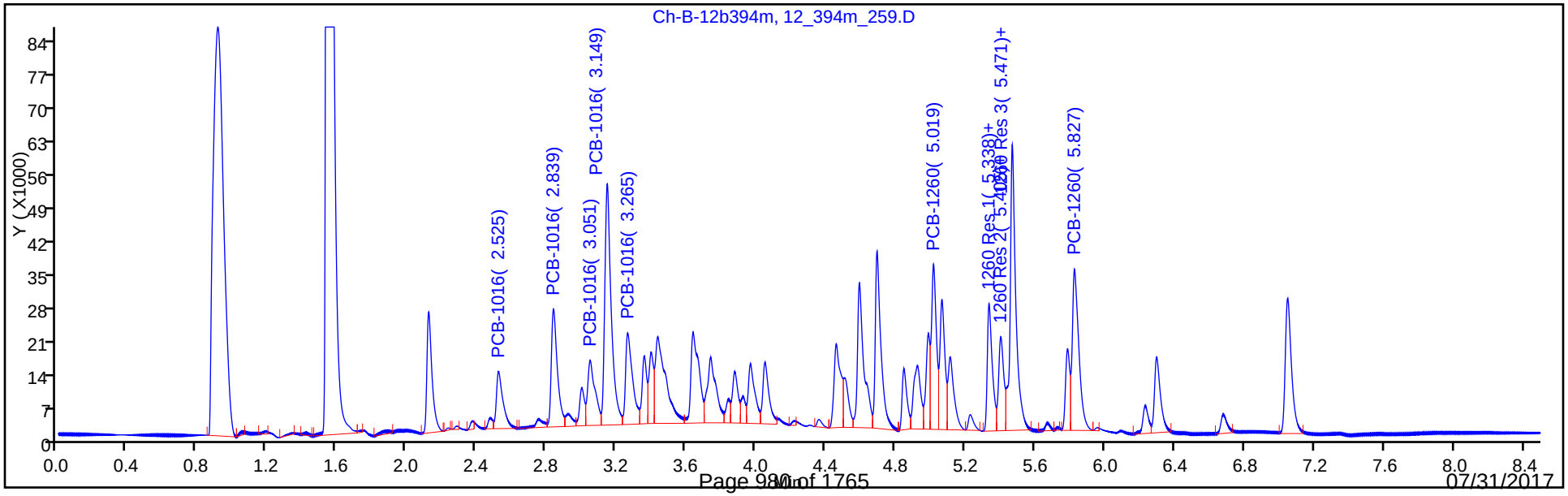
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Injection Date:	20-Jul-2017 18:12:20	Instrument ID:	HP5890-12	Operator ID:	BufTCHROM
Lims ID:	480-121321-B-4-A MS			Worklist Smp#:	20
Client ID:	TP-04				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	5890-12 PCB IS	Limit Group:	GC - 8082A PCB IS ICAL		

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



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



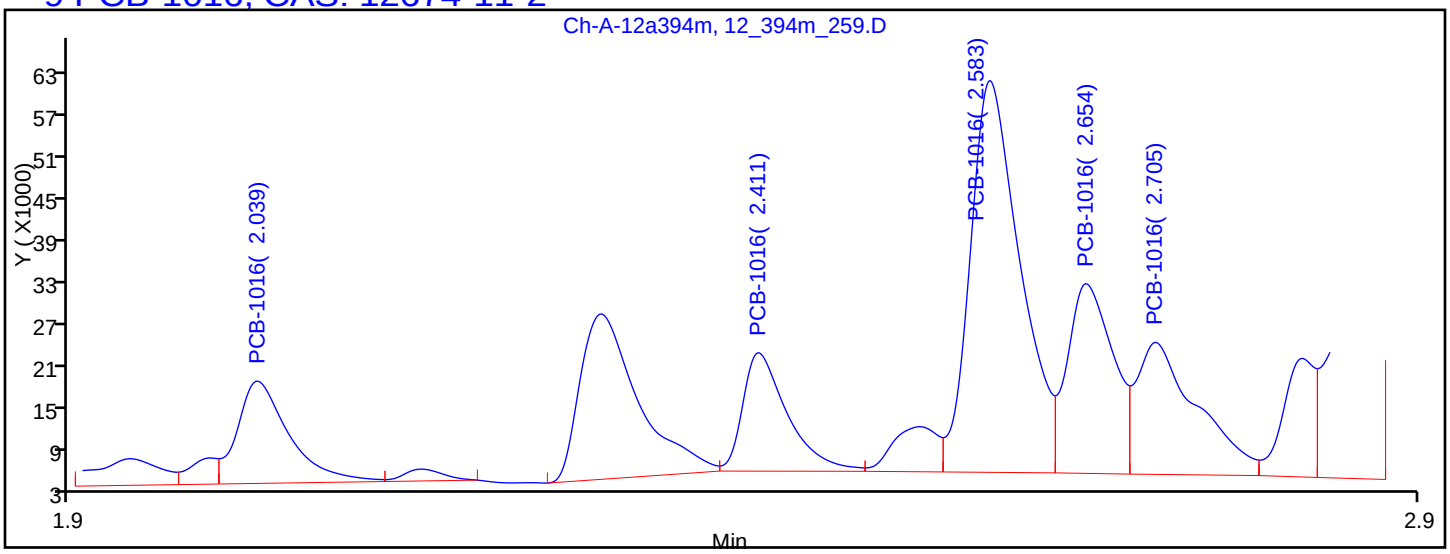
Report Date: 21-Jul-2017 10:29:22 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

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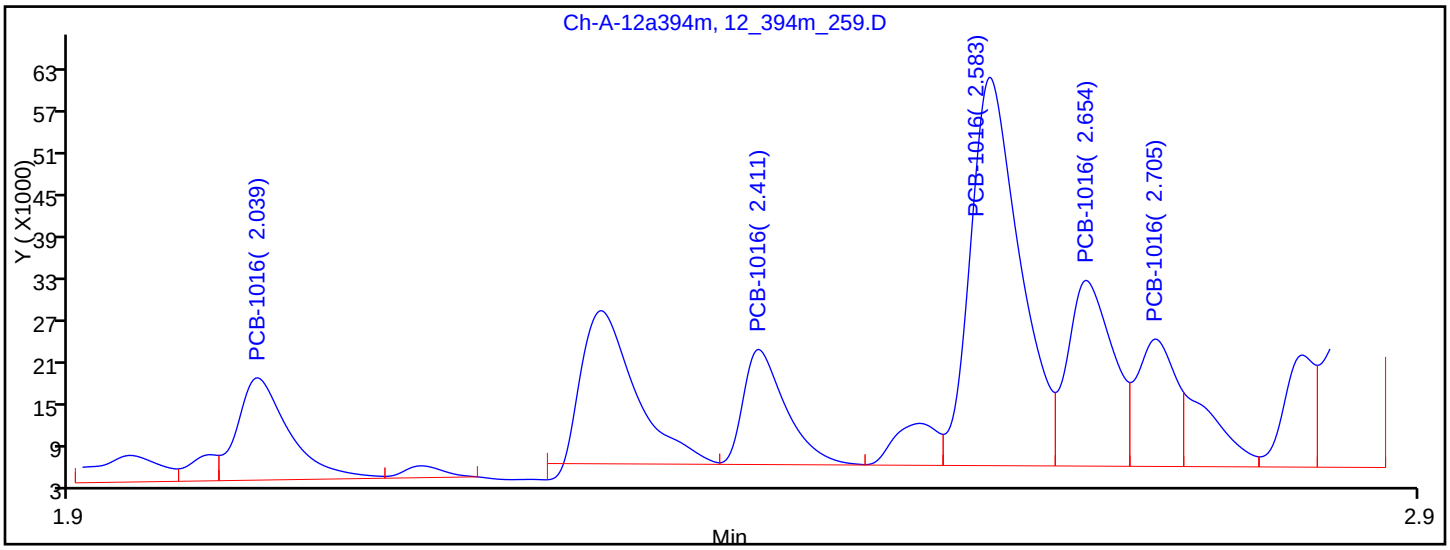
Injection Date:	20-Jul-2017 18:12:20	Instrument ID:	HP5890-12		
Lims ID:	480-121321-B-4-A MS				
Client ID:	TP-04				
Operator ID:	BufTCHROM	ALS Bottle#:	0	Worklist Smp#:	20
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	5890-12 PCB IS	Limit Group:	GC - 8082A PCB IS ICAL		
Column:		Detector	Ch-A-7A136		

9 PCB-1016, CAS: 12674-11-2



Processing Integration Results

2.039	Response = 39261
2.411	Response = 39370
2.583	Response = 146703
2.654	Response = 64967
2.705	Response = 59580



Manual Integration Results

2.039	Response = 39261	
2.411	Response = 36373	M
2.583	Response = 144230	M
2.654	Response = 63027	M
2.705	Response = 36033	M

Reviewer: owenj, 21-Jul-2017 10:28:29

Audit Action: Assigned New Baseline Audit Reason: Split Peak

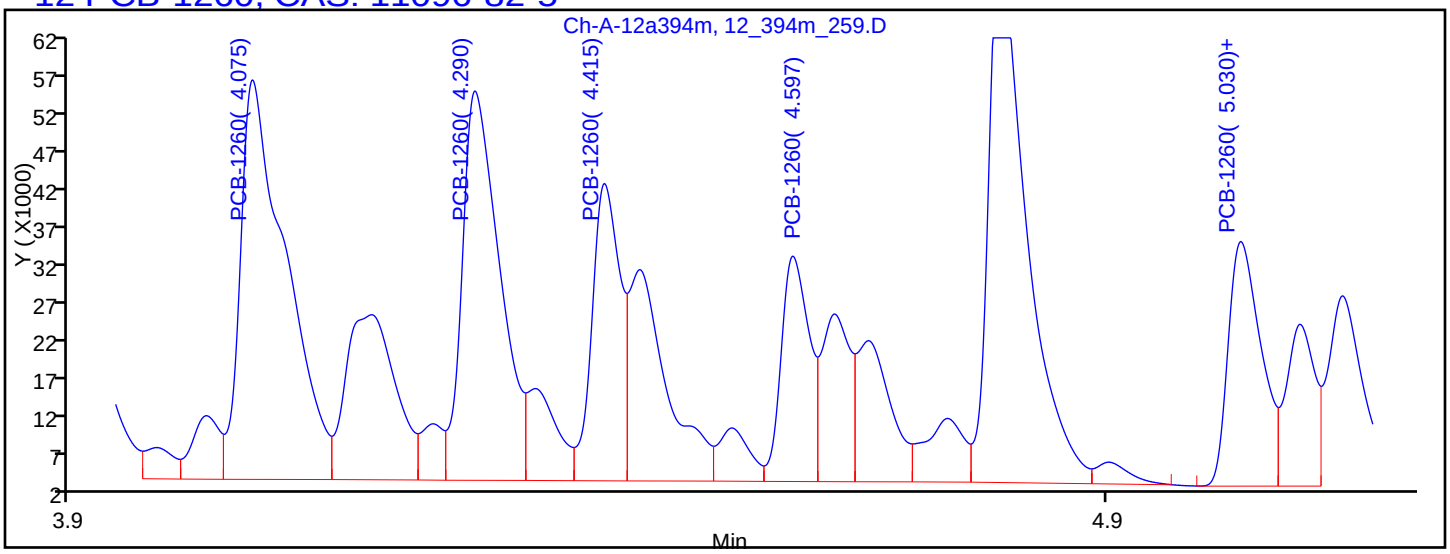
Report Date: 21-Jul-2017 10:29:22 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

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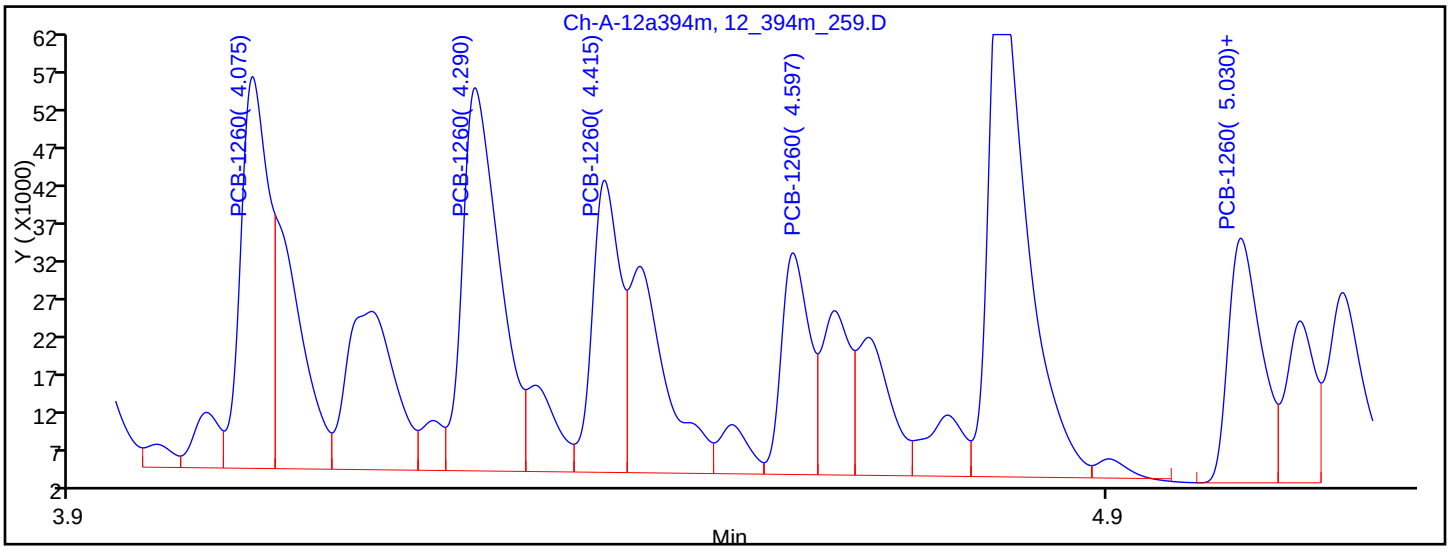
Injection Date:	20-Jul-2017 18:12:20	Instrument ID:	HP5890-12		
Lims ID:	480-121321-B-4-A MS				
Client ID:	TP-04				
Operator ID:	BufTCHROM	ALS Bottle#:	0	Worklist Smp#:	20
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	5890-12 PCB IS	Limit Group:	GC - 8082A PCB IS ICAL		
Column:		Detector	Ch-A-7A136		

12 PCB-1260, CAS: 11096-82-5



Processing Integration Results

4.075	Response = 163170
4.290	Response = 131072
4.415	Response = 75182
4.597	Response = 56764
5.030	Response = 71933



Manual Integration Results

4.075	Response = 97943	M
4.290	Response = 127351	M
4.415	Response = 73054	M
4.597	Response = 55213	M
5.030	Response = 71933	

Reviewer: owenj, 21-Jul-2017 10:28:31

Audit Action: Assigned New Baseline Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

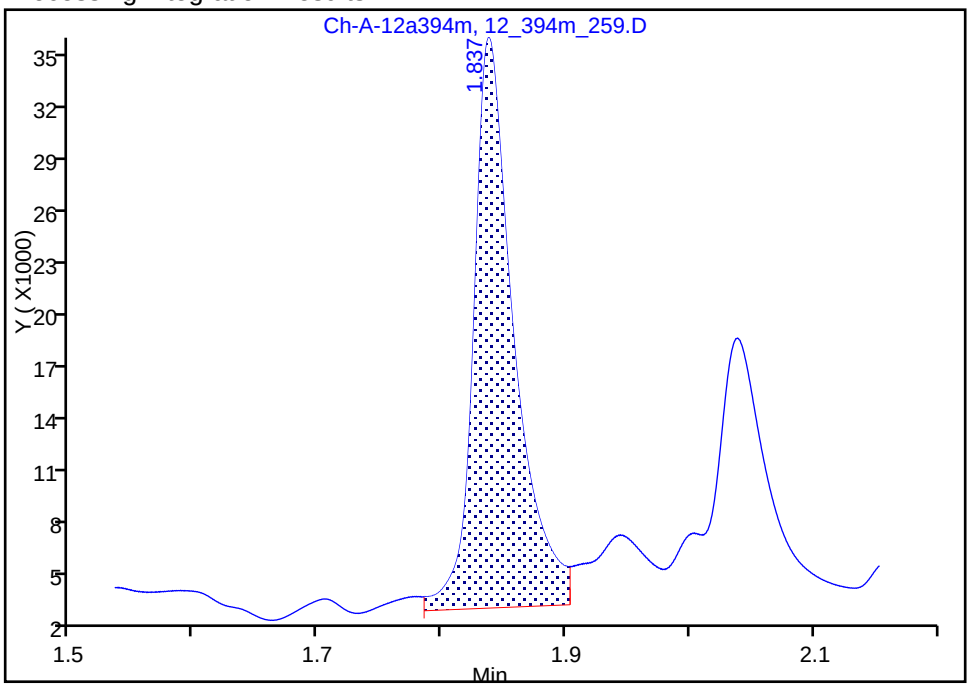
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Injection Date:	20-Jul-2017 18:12:20	Instrument ID:	HP5890-12		
Lims ID:	480-121321-B-4-A MS				
Client ID:	TP-04				
Operator ID:	BufTCHROM	ALS Bottle#:	0	Worklist Smp#:	20
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	5890-12 PCB IS	Limit Group:	GC - 8082A PCB IS ICAL		
Column:		Detector	Ch-A-7A136		

$ 6 Tetrachloro-m-xylene, CAS: 877-09-8

Signal: 1

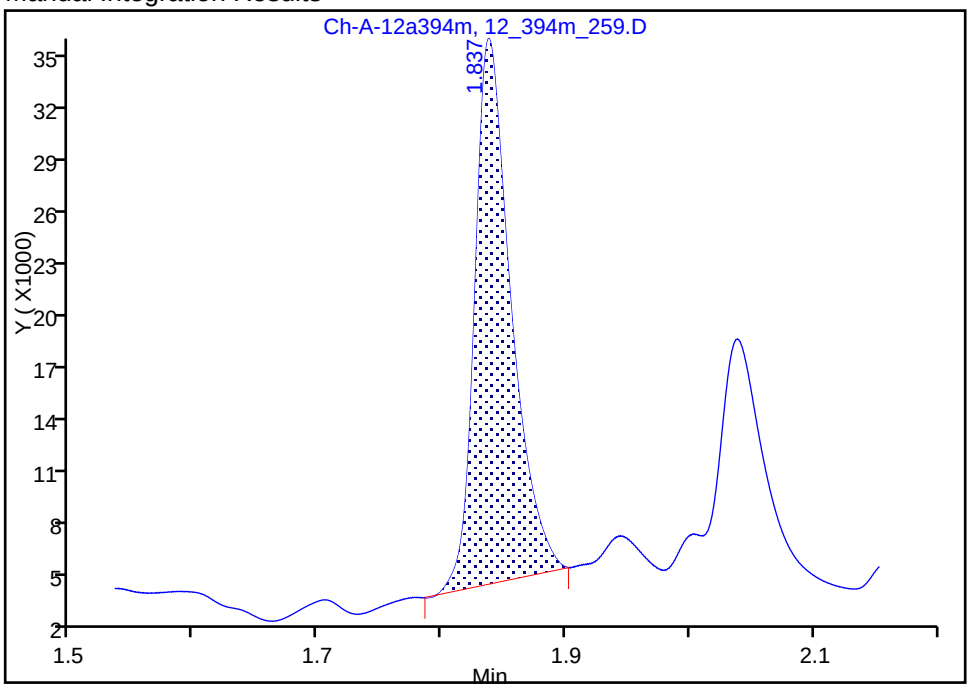
Processing Integration Results

RT: 1.84
Area: 73473
Amount: 0.034976
Amount Units: ng/uL



Manual Integration Results

RT: 1.84
Area: 62965
Amount: 0.029999
Amount Units: ng/uL



Reviewer: owenj, 21-Jul-2017 10:28:37

Audit Action: Manually Integrated Audit Reason: Split Peak

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121321-1

SDG No.:

Client Sample ID: TP-04 MS | Lab Sample ID: 480-121321-4 MS

Matrix: Solid | Lab File ID: 12_394m_259.D

Analysis Method: 8082A | Date Collected: 07/19/2017 13:00

Extraction Method: 3550C | Date Extracted: 07/20/2017 10:58

Sample wt/vol: 2.31(g) | Date Analyzed: 07/20/2017 18:12

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 17.9 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 367887 | Units: mg/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	142		60-154
2051-24-3	DCB Decachlorobiphenyl	131		65-174

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170720-64197.b\12_394m_259.D
Lims ID: 480-121321-B-4-A MS
Client ID: TP-04
Sample Type: MS
Inject. Date: 20-Jul-2017 18:12:20 ALS Bottle#: 0 Worklist Smp#: 20
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP5890-12

Method: \\ChromNA\Buffalo\ChromData\HP5890-12\20170720-64197.b\5890-12 PCB IS.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 21-Jul-2017 10:29:22 Calib Date: 13-May-2017 13:35:27
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170513-62487.b\12_390m_257.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK010

First Level Reviewer: owenj Date: 21-Jul-2017 10:29:22

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.258	1.258	0.000	1039076	0.5000	0.5000	
2	1.545	1.546	-0.001	1017898	0.5000	0.5000	
						RPD = 0.00	
$ 6 Tetrachloro-m-xylene							M
1	1.837	1.837	0.000	62965	0.0200	0.0300	M
2	2.125	2.125	0.000	51964	0.0200	0.0285	
						RPD = 5.25	
9 PCB-1016							M
1	2.039	2.039	0.000	39261	0.5000	0.6947	
1	2.411	2.410	0.001	36373	0.5000	0.6044	M
1	2.583	2.582	0.001	144230	0.5000	0.7026	M
1	2.654	2.653	0.001	63027	0.5000	0.7950	M
1	2.705	2.705	0.000	36033	0.5000	0.7325	M
		Average of Peak Amounts =				0.7058	
2	2.525	2.525	0.000	32113	0.5000	0.7737	
2	2.839	2.839	0.000	60611	0.5000	0.7103	
2	3.051	3.049	0.002	41189	0.5000	0.7787	
2	3.149	3.147	0.002	131919	0.5000	0.8051	
2	3.265	3.265	0.000	54400	0.5000	0.7978	
		Average of Peak Amounts =				0.7731	
						RPD = 9.10	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
12 PCB-1260							M
1	4.075	4.074	0.001	97943	0.5000	0.8367	M
1	4.290	4.289	0.001	127351	0.5000	0.7973	M
1	4.415	4.414	0.001	73054	0.5000	0.8036	M
1	4.597	4.595	0.002	55213	0.5000	0.7298	M
1	5.030	5.028	0.002	71933	0.5000	0.7008	
		Average of Peak Amounts =				0.7737	
2	5.019	5.019	0.000	69612	0.5000	0.6532	
2	5.338	5.337	0.001	53510	0.5000	0.6021	
2	5.405	5.405	0.000	41219	0.5000	0.6190	
2	5.471	5.470	0.001	137097	0.5000	0.5803	
2	5.827	5.827	0.000	89024	0.5000	0.5734	
		Average of Peak Amounts =				0.6056	
						RPD = 24.37	
2 1260 Res 1							
1	5.030	5.028	0.002	71933		NC	
2	5.338	5.337	0.001	53510		NC	
4 1260 Res 2							
1	5.087	5.085	0.002	41078		NC	
2	5.405	5.405	-0.001	41219		NC	
3 1260 Res 3							
1	5.128	5.126	0.002	61577		NC	
2	5.471	5.470	0.001	137097		NC	
$ 15 DCB Decachlorobiphenyl							
1	6.042	6.041	0.001	74596	0.0200	0.0273	
2	7.051	7.049	0.002	71647	0.0200	0.0262	
						RPD = 4.16	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

COPPER_00070	Amount Added: 1.00	Units: g	Run Reagent
PCB IS 1B2NB_00037	Amount Added: 10.00	Units: uL	Run Reagent

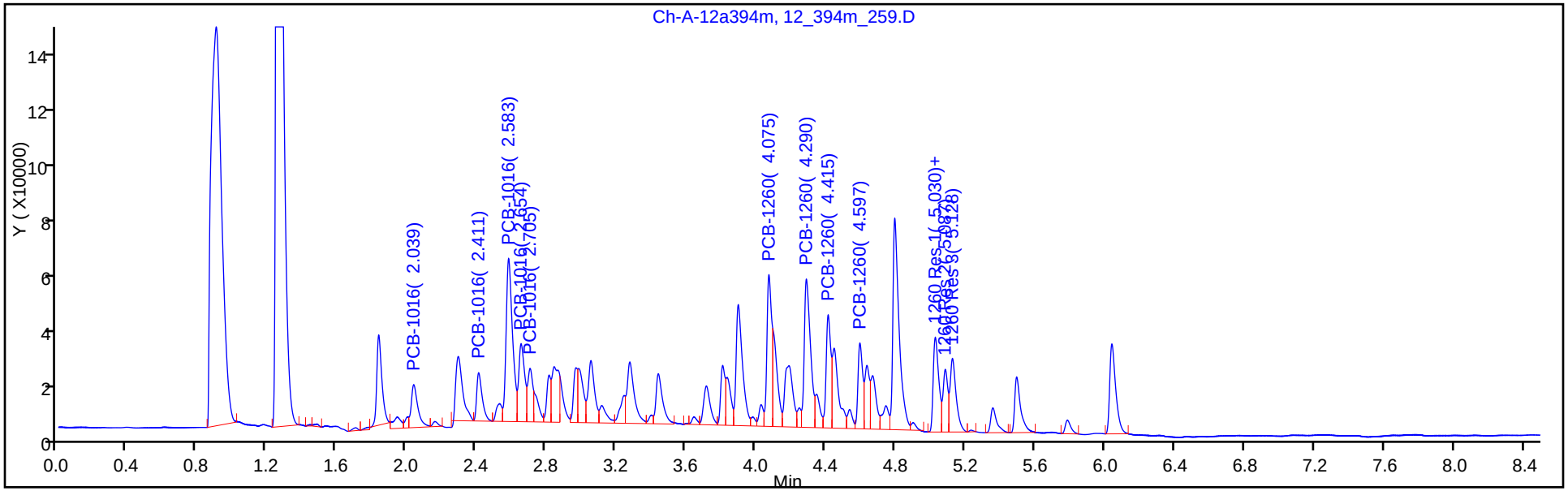
Report Date: 21-Jul-2017 10:29:23 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

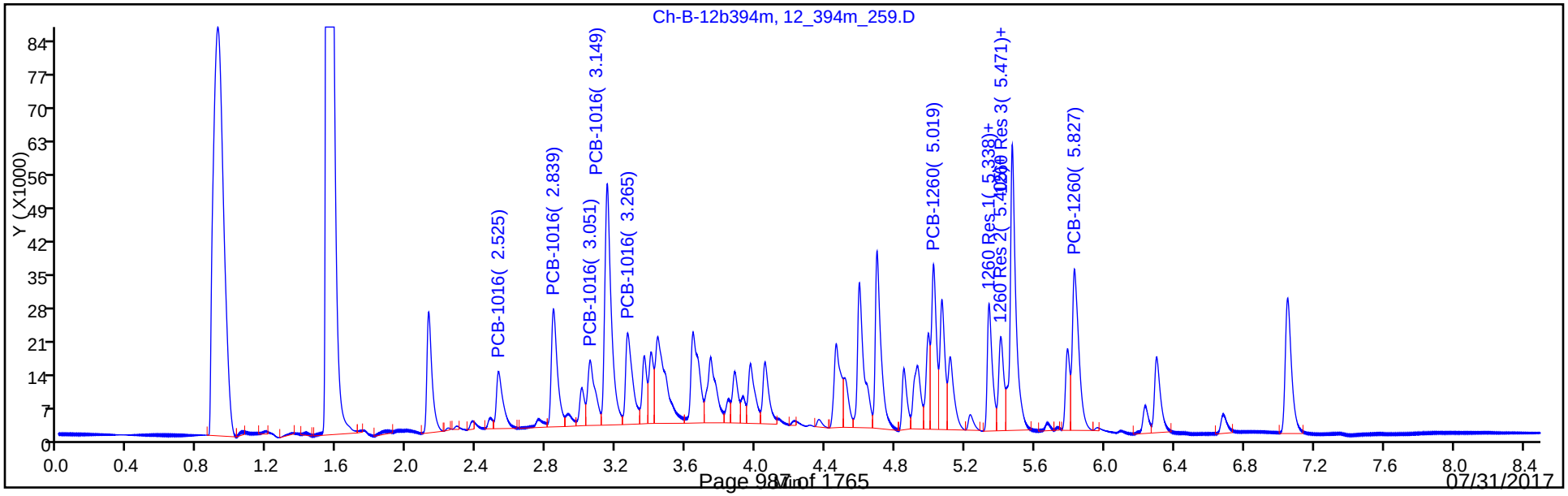
Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170720-64197.b\12_394m_259.D

Injection Date:	20-Jul-2017 18:12:20	Instrument ID:	HP5890-12	Operator ID:	BufTCHROM
Lims ID:	480-121321-B-4-A MS			Worklist Smp#:	20
Client ID:	TP-04				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	5890-12 PCB IS	Limit Group:	GC - 8082A PCB IS ICAL		

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



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



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121321-1

SDG No.:

Client Sample ID: TP-04 MSD | Lab Sample ID: 480-121321-4 MSD

Matrix: Solid | Lab File ID: 12_394m_260.D

Analysis Method: 8082A | Date Collected: 07/19/2017 13:00

Extraction Method: 3550C | Date Extracted: 07/20/2017 10:58

Sample wt/vol: 2.84(g) | Date Analyzed: 07/20/2017 18:27

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-5 ID: 0.53(mm)

% Moisture: 17.9 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 367887 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	3.05		0.21	0.042
11104-28-2	PCB-1221	ND		0.21	0.042
11141-16-5	PCB-1232	ND		0.21	0.042
53469-21-9	PCB-1242	ND		0.21	0.042
12672-29-6	PCB-1248	ND		0.21	0.042
11097-69-1	PCB-1254	ND		0.21	0.10
11096-82-5	PCB-1260	3.19		0.21	0.10
37324-23-5	PCB-1262	ND		0.21	0.10
11100-14-4	PCB-1268	ND		0.21	0.10

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	170	*X*	60-154
2051-24-3	DCB Decachlorobiphenyl	133		65-174

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170720-64197.b\12_394m_260.D
Lims ID: 480-121321-B-4-B MSD
Client ID: TP-04
Sample Type: MSD
Inject. Date: 20-Jul-2017 18:27:41 ALS Bottle#: 0 Worklist Smp#: 21
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP5890-12

Method: \\ChromNA\Buffalo\ChromData\HP5890-12\20170720-64197.b\5890-12 PCB IS.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 21-Jul-2017 10:30:01 Calib Date: 13-May-2017 13:35:27
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170513-62487.b\12_390m_257.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK010

First Level Reviewer: owenj Date: 21-Jul-2017 10:30:01

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.259	1.258	0.001	947520	0.5000	0.5000	
2	1.546	1.546	0.000	922741	0.5000	0.5000	
						RPD = 0.00	
$ 6 Tetrachloro-m-xylene							
1	1.837	1.837	0.000	65090	0.0200	0.0340	
2	2.125	2.125	0.000	45769	0.0200	0.0277	
						RPD = 20.53	
9 PCB-1016							M
1	2.039	2.039	0.000	36233	0.5000	0.7031	
1	2.411	2.410	0.001	32986	0.5000	0.6011	
1	2.583	2.582	0.001	129651	0.5000	0.6927	
1	2.654	2.653	0.001	55747	0.5000	0.7708	
1	2.705	2.705	0.000	35515	0.5000	0.7923	M
		Average of Peak Amounts =				0.7120	
2	2.525	2.525	0.000	28949	0.5000	0.7693	
2	2.840	2.839	0.001	54304	0.5000	0.7019	
2	3.049	3.049	0.000	36984	0.5000	0.7713	
2	3.148	3.147	0.001	122189	0.5000	0.8227	
2	3.266	3.265	0.001	49629	0.5000	0.8029	
		Average of Peak Amounts =				0.7736	
						RPD = 8.30	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
12 PCB-1260							M
1	4.075	4.074	0.001	80672	0.5000	0.7535	M
1	4.291	4.289	0.002	114022	0.5000	0.7827	
1	4.415	4.414	0.001	63970	0.5000	0.7717	
1	4.597	4.595	0.002	48566	0.5000	0.7041	
1	5.029	5.028	0.001	65947	0.5000	0.7046	
		Average of Peak Amounts =				0.7433	
2	5.019	5.019	0.000	60837	0.5000	0.6295	
2	5.337	5.337	0.000	49080	0.5000	0.6093	
2	5.405	5.405	0.000	38181	0.5000	0.6327	
2	5.471	5.470	0.001	126356	0.5000	0.5901	
2	5.827	5.827	0.000	81089	0.5000	0.5762	
		Average of Peak Amounts =				0.6076	
						RPD = 20.10	
2 1260 Res 1							
1	5.029	5.028	0.001	65947		NC	
2	5.337	5.337	0.001	49080		NC	
4 1260 Res 2							
1	5.087	5.085	0.002	37790		NC	
2	5.405	5.405	0.000	38181		NC	
3 1260 Res 3							
1	5.128	5.126	0.002	55258		NC	
2	5.471	5.470	0.001	126356		NC	
$ 15 DCB Decachlorobiphenyl							
1	6.042	6.041	0.001	66365	0.0200	0.0267	
2	7.049	7.049	0.000	61886	0.0200	0.0250	
						RPD = 6.54	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

COPPER_00070	Amount Added: 1.00	Units: g	Run Reagent
PCB IS 1B2NB_00037	Amount Added: 10.00	Units: uL	Run Reagent

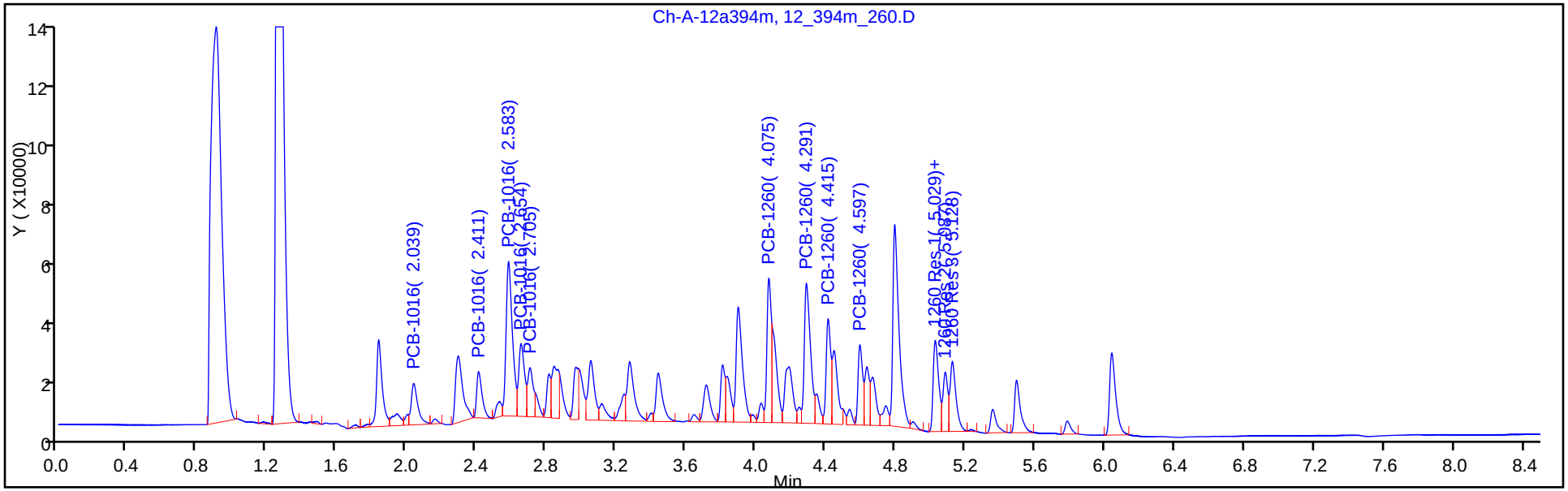
Report Date: 21-Jul-2017 10:30:02 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

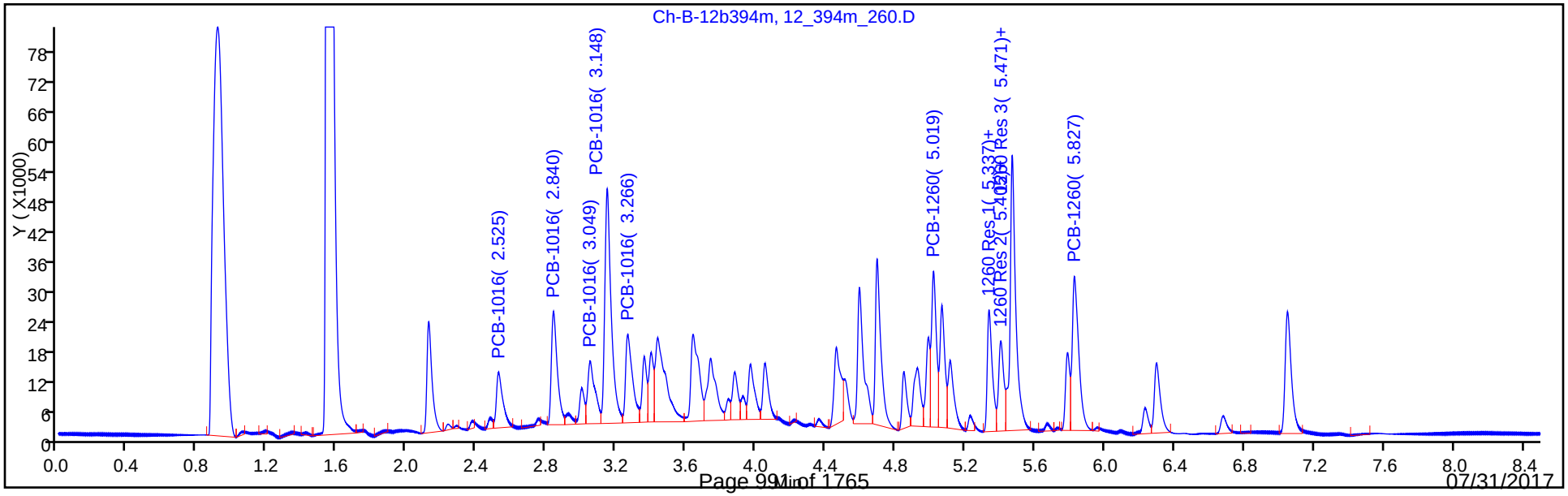
Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170720-64197.b\12_394m_260.D

Injection Date:	20-Jul-2017 18:27:41	Instrument ID:	HP5890-12	Operator ID:	BufTCHROM
Lims ID:	480-121321-B-4-B MSD			Worklist Smp#:	21
Client ID:	TP-04				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	5890-12 PCB IS	Limit Group:	GC - 8082A PCB IS ICAL		

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



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



Report Date: 21-Jul-2017 10:30:02 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170720-64197.b\12_394m_260.D

Injection Date: 20-Jul-2017 18:27:41 Instrument ID: HP5890-12

Lims ID: 480-121321-B-4-B MSD

Client ID: TP-04

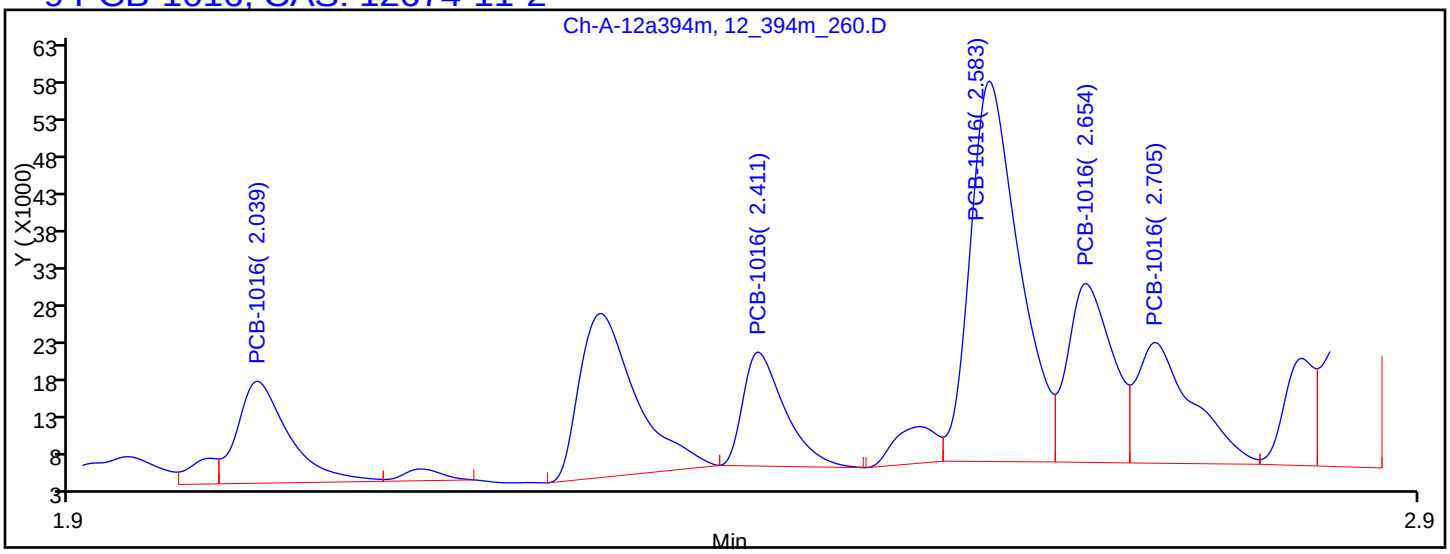
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 21

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 5890-12 PCB IS Limit Group: GC - 8082A PCB IS ICAL

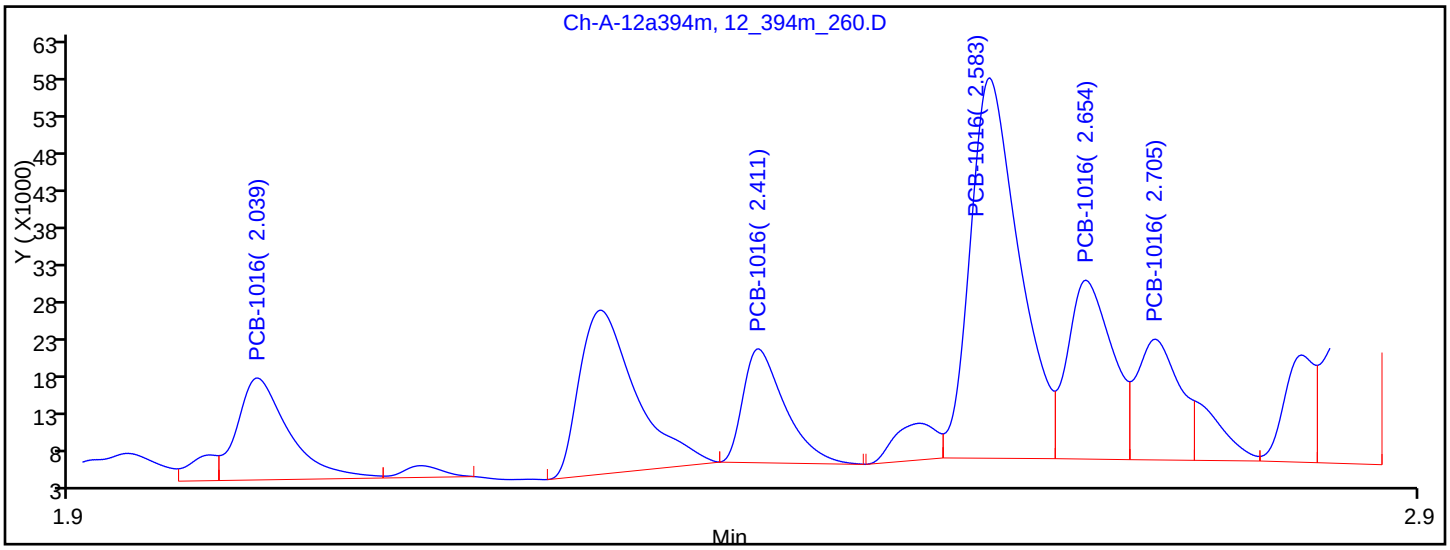
Column: Detector Ch-A-7A136

9 PCB-1016, CAS: 12674-11-2



Processing Integration Results

2.039	Response = 36233
2.411	Response = 32986
2.583	Response = 129651
2.654	Response = 55747
2.705	Response = 46837



Manual Integration Results

2.039	Response = 36233	
2.411	Response = 32986	
2.583	Response = 129651	
2.654	Response = 55747	
2.705	Response = 35515	M

Reviewer: owenj, 21-Jul-2017 10:29:39

Audit Action: Split an Integrated Peak Audit Reason: Split Peak

Report Date: 21-Jul-2017 10:30:02 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170720-64197.b\12_394m_260.D

Injection Date: 20-Jul-2017 18:27:41 Instrument ID: HP5890-12

Lims ID: 480-121321-B-4-B MSD

Client ID: TP-04

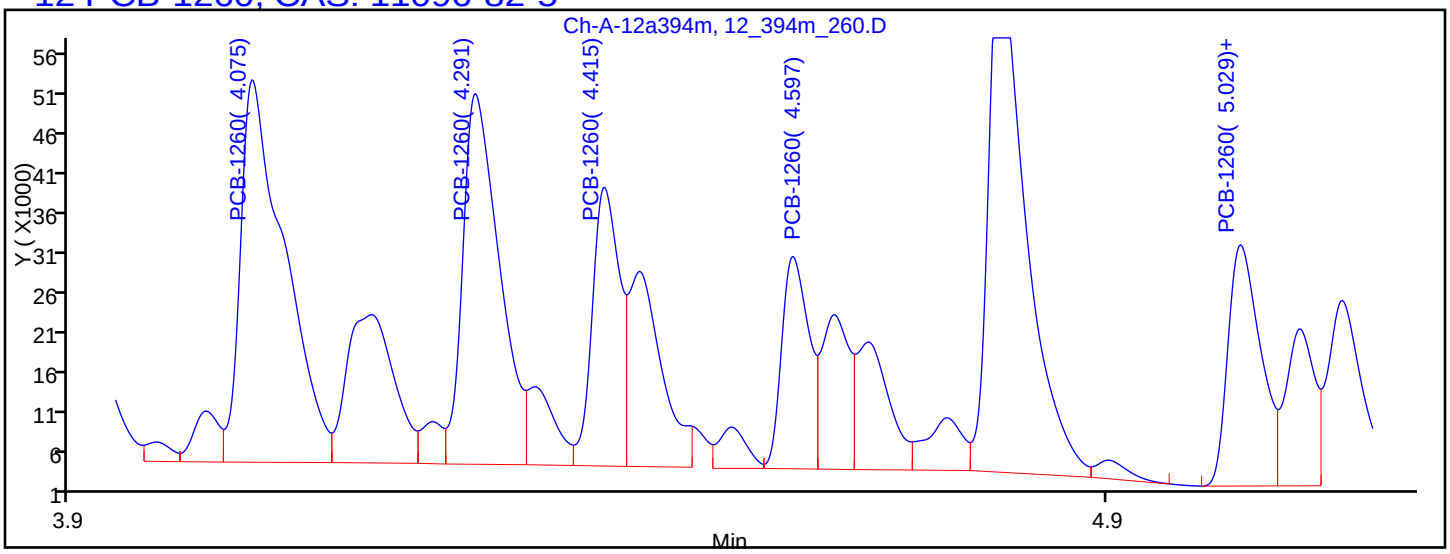
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 21

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 5890-12 PCB IS Limit Group: GC - 8082A PCB IS ICAL

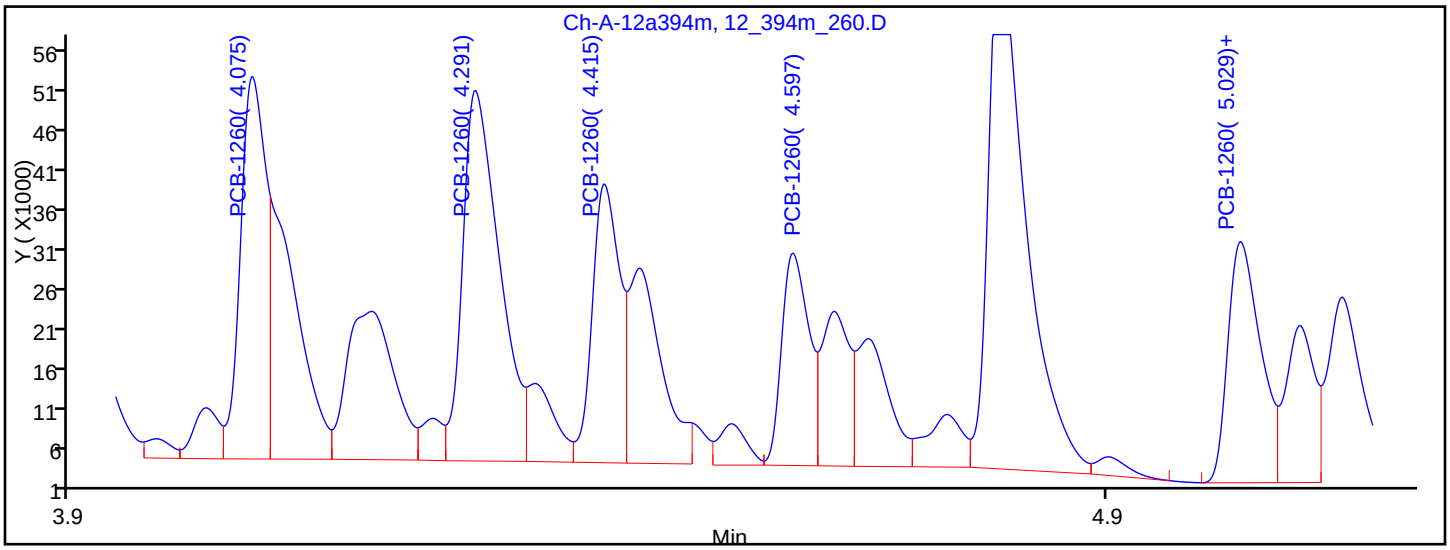
Column: Detector Ch-A-7A136

12 PCB-1260, CAS: 11096-82-5



Processing Integration Results

4.075	Response = 141423
4.291	Response = 114022
4.415	Response = 63970
4.597	Response = 48566
5.029	Response = 65947



Manual Integration Results

4.075	Response = 80672	M
4.291	Response = 114022	
4.415	Response = 63970	
4.597	Response = 48566	
5.029	Response = 65947	

Reviewer: owenj, 21-Jul-2017 10:29:42

Audit Action: Split an Integrated Peak Audit Reason: Split Peak

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121321-1

SDG No.:

Client Sample ID: TP-04 MSD | Lab Sample ID: 480-121321-4 MSD

Matrix: Solid | Lab File ID: 12_394m_260.D

Analysis Method: 8082A | Date Collected: 07/19/2017 13:00

Extraction Method: 3550C | Date Extracted: 07/20/2017 10:58

Sample wt/vol: 2.84(g) | Date Analyzed: 07/20/2017 18:27

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 17.9 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 367887 | Units: mg/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	138		60-154
2051-24-3	DCB Decachlorobiphenyl	125		65-174

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170720-64197.b\12_394m_260.D
Lims ID: 480-121321-B-4-B MSD
Client ID: TP-04
Sample Type: MSD
Inject. Date: 20-Jul-2017 18:27:41 ALS Bottle#: 0 Worklist Smp#: 21
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP5890-12

Method: \\ChromNA\Buffalo\ChromData\HP5890-12\20170720-64197.b\5890-12 PCB IS.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 21-Jul-2017 10:30:01 Calib Date: 13-May-2017 13:35:27
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170513-62487.b\12_390m_257.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK010

First Level Reviewer: owenj Date: 21-Jul-2017 10:30:01

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.259	1.258	0.001	947520	0.5000	0.5000	
2	1.546	1.546	0.000	922741	0.5000	0.5000	
						RPD = 0.00	
$ 6 Tetrachloro-m-xylene							
1	1.837	1.837	0.000	65090	0.0200	0.0340	
2	2.125	2.125	0.000	45769	0.0200	0.0277	
						RPD = 20.53	
9 PCB-1016							M
1	2.039	2.039	0.000	36233	0.5000	0.7031	
1	2.411	2.410	0.001	32986	0.5000	0.6011	
1	2.583	2.582	0.001	129651	0.5000	0.6927	
1	2.654	2.653	0.001	55747	0.5000	0.7708	
1	2.705	2.705	0.000	35515	0.5000	0.7923	M
		Average of Peak Amounts =				0.7120	
2	2.525	2.525	0.000	28949	0.5000	0.7693	
2	2.840	2.839	0.001	54304	0.5000	0.7019	
2	3.049	3.049	0.000	36984	0.5000	0.7713	
2	3.148	3.147	0.001	122189	0.5000	0.8227	
2	3.266	3.265	0.001	49629	0.5000	0.8029	
		Average of Peak Amounts =				0.7736	
						RPD = 8.30	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
12 PCB-1260							M
1	4.075	4.074	0.001	80672	0.5000	0.7535	M
1	4.291	4.289	0.002	114022	0.5000	0.7827	
1	4.415	4.414	0.001	63970	0.5000	0.7717	
1	4.597	4.595	0.002	48566	0.5000	0.7041	
1	5.029	5.028	0.001	65947	0.5000	0.7046	
		Average of Peak Amounts =				0.7433	
2	5.019	5.019	0.000	60837	0.5000	0.6295	
2	5.337	5.337	0.000	49080	0.5000	0.6093	
2	5.405	5.405	0.000	38181	0.5000	0.6327	
2	5.471	5.470	0.001	126356	0.5000	0.5901	
2	5.827	5.827	0.000	81089	0.5000	0.5762	
		Average of Peak Amounts =				0.6076	
						RPD = 20.10	
2 1260 Res 1							
1	5.029	5.028	0.001	65947		NC	
2	5.337	5.337	0.001	49080		NC	
4 1260 Res 2							
1	5.087	5.085	0.002	37790		NC	
2	5.405	5.405	0.000	38181		NC	
3 1260 Res 3							
1	5.128	5.126	0.002	55258		NC	
2	5.471	5.470	0.001	126356		NC	
$ 15 DCB Decachlorobiphenyl							
1	6.042	6.041	0.001	66365	0.0200	0.0267	
2	7.049	7.049	0.000	61886	0.0200	0.0250	
						RPD = 6.54	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

COPPER_00070	Amount Added: 1.00	Units: g	Run Reagent
PCB IS 1B2NB_00037	Amount Added: 10.00	Units: uL	Run Reagent

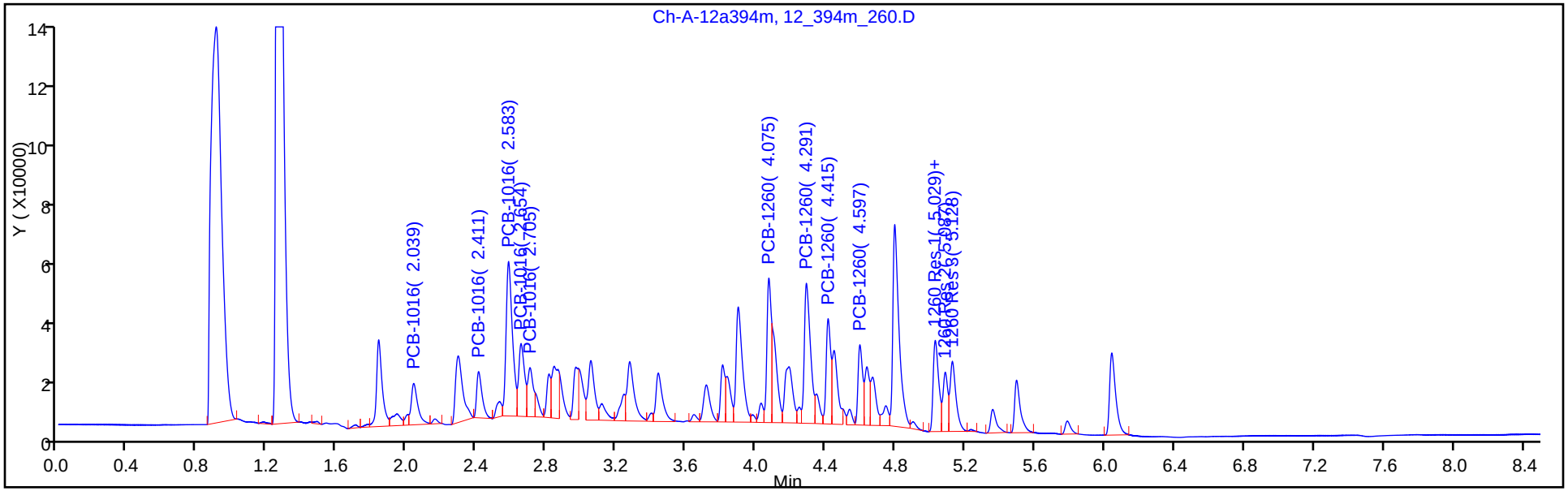
Report Date: 21-Jul-2017 10:30:03 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

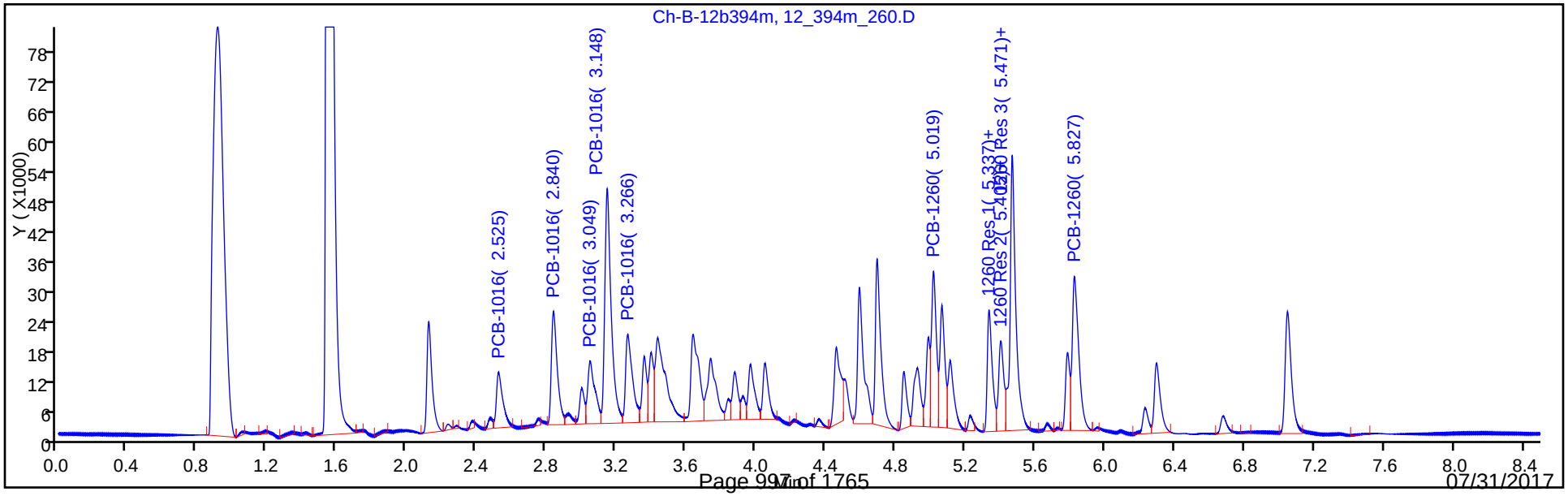
Data File: \\ChromNA\Buffalo\ChromData\HP5890-12\20170720-64197.b\12_394m_260.D

Injection Date:	20-Jul-2017 18:27:41	Instrument ID:	HP5890-12	Operator ID:	BufTCHROM
Lims ID:	480-121321-B-4-B MSD			Worklist Smp#:	21
Client ID:	TP-04				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	5890-12 PCB IS	Limit Group:	GC - 8082A PCB IS ICAL		

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



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



PCBS ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1

SDG No.:

Instrument ID: HP5890-12 Start Date: 05/11/2017 15:46

Analysis Batch Number: 356902 End Date: 05/11/2017 21:39

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
IC 480-356902/17		05/11/2017 15:46	1	12_390m_214.D	ZB-5 0.53(mm)
IC 480-356902/17		05/11/2017 15:46	1	12_390m_214.D	ZB-35 0.53(mm)
IC 480-356902/18		05/11/2017 16:01	1	12_390m_215.D	ZB-5 0.53(mm)
IC 480-356902/18		05/11/2017 16:01	1	12_390m_215.D	ZB-35 0.53(mm)
ICIS 480-356902/19		05/11/2017 16:17	1	12_390m_216.D	ZB-5 0.53(mm)
ICIS 480-356902/19		05/11/2017 16:17	1	12_390m_216.D	ZB-35 0.53(mm)
IC 480-356902/20		05/11/2017 16:32	1	12_390m_217.D	ZB-5 0.53(mm)
IC 480-356902/20		05/11/2017 16:32	1	12_390m_217.D	ZB-35 0.53(mm)
IC 480-356902/21		05/11/2017 17:07	1	12_390m_218.D	ZB-5 0.53(mm)
IC 480-356902/21		05/11/2017 17:07	1	12_390m_218.D	ZB-35 0.53(mm)
IC 480-356902/22		05/11/2017 17:22	1	12_390m_219.D	ZB-5 0.53(mm)
IC 480-356902/22		05/11/2017 17:22	1	12_390m_219.D	ZB-35 0.53(mm)
IC 480-356902/23		05/11/2017 18:19	1	12_390m_220.D	ZB-5 0.53(mm)
IC 480-356902/23		05/11/2017 18:19	1	12_390m_220.D	ZB-35 0.53(mm)
ICV 480-356902/24		05/11/2017 18:35	1		ZB-5 0.53(mm)
ICV 480-356902/24		05/11/2017 18:35	1		ZB-35 0.53(mm)
CCV 480-356902/25		05/11/2017 18:50	1		ZB-5 0.53(mm)
CCV 480-356902/25		05/11/2017 18:50	1		ZB-35 0.53(mm)
ZZZZZ		05/11/2017 19:21	1		ZB-5 0.53(mm)
ZZZZZ		05/11/2017 19:21	1		ZB-35 0.53(mm)
CCVL 480-356902/28		05/11/2017 19:36	0.02		ZB-5 0.53(mm)
CCVL 480-356902/28		05/11/2017 19:36	0.02		ZB-35 0.53(mm)
IC 480-356902/29		05/11/2017 19:52	1	12_390m_226.D	ZB-5 0.53(mm)
IC 480-356902/29		05/11/2017 19:52	1	12_390m_226.D	ZB-35 0.53(mm)
IC 480-356902/30		05/11/2017 20:07	1	12_390m_227.D	ZB-5 0.53(mm)
IC 480-356902/30		05/11/2017 20:07	1	12_390m_227.D	ZB-35 0.53(mm)
IC 480-356902/31		05/11/2017 20:22	1	12_390m_228.D	ZB-5 0.53(mm)
IC 480-356902/31		05/11/2017 20:22	1	12_390m_228.D	ZB-35 0.53(mm)
ICV 480-356902/32		05/11/2017 20:38	1		ZB-5 0.53(mm)
ICV 480-356902/32		05/11/2017 20:38	1		ZB-35 0.53(mm)
IC 480-356902/33		05/11/2017 20:53	1	12_390m_230.D	ZB-5 0.53(mm)
IC 480-356902/33		05/11/2017 20:53	1	12_390m_230.D	ZB-35 0.53(mm)
IC 480-356902/34		05/11/2017 21:08	1	12_390m_231.D	ZB-5 0.53(mm)
IC 480-356902/34		05/11/2017 21:08	1	12_390m_231.D	ZB-35 0.53(mm)
IC 480-356902/35		05/11/2017 21:24	1	12_390m_232.D	ZB-5 0.53(mm)
IC 480-356902/35		05/11/2017 21:24	1	12_390m_232.D	ZB-35 0.53(mm)
ICV 480-356902/36		05/11/2017 21:39	1		ZB-5 0.53(mm)
ICV 480-356902/36		05/11/2017 21:39	1		ZB-35 0.53(mm)

PCBS ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1

SDG No.:

Instrument ID: HP5890-12 Start Date: 05/13/2017 11:27

Analysis Batch Number: 357246 End Date: 05/13/2017 13:50

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
IC 480-357246/4		05/13/2017 11:27	1	12_390m_251.D	ZB-5 0.53(mm)
IC 480-357246/4		05/13/2017 11:27	1	12_390m_251.D	ZB-35 0.53(mm)
IC 480-357246/5		05/13/2017 11:42	1	12_390m_252.D	ZB-5 0.53(mm)
IC 480-357246/5		05/13/2017 11:42	1	12_390m_252.D	ZB-35 0.53(mm)
IC 480-357246/6		05/13/2017 12:34	1	12_390m_253.D	ZB-5 0.53(mm)
IC 480-357246/6		05/13/2017 12:34	1	12_390m_253.D	ZB-35 0.53(mm)
ICV 480-357246/7		05/13/2017 12:49	1		ZB-5 0.53(mm)
ICV 480-357246/7		05/13/2017 12:49	1		ZB-35 0.53(mm)
IC 480-357246/8		05/13/2017 13:04	1	12_390m_255.D	ZB-5 0.53(mm)
IC 480-357246/8		05/13/2017 13:04	1	12_390m_255.D	ZB-35 0.53(mm)
IC 480-357246/9		05/13/2017 13:20	1	12_390m_256.D	ZB-5 0.53(mm)
IC 480-357246/9		05/13/2017 13:20	1	12_390m_256.D	ZB-35 0.53(mm)
IC 480-357246/10		05/13/2017 13:35	1	12_390m_257.D	ZB-5 0.53(mm)
IC 480-357246/10		05/13/2017 13:35	1	12_390m_257.D	ZB-35 0.53(mm)
ICV 480-357246/11		05/13/2017 13:50	1		ZB-5 0.53(mm)
ICV 480-357246/11		05/13/2017 13:50	1		ZB-35 0.53(mm)

PCBS ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1

SDG No.:

Instrument ID: HP5890-12 Start Date: 07/20/2017 10:25

Analysis Batch Number: 367887 End Date: 07/20/2017 22:17

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCVIS 480-367887/4		07/20/2017 10:25	1	12_394m_243.D	ZB-5 0.53(mm)
CCVIS 480-367887/4		07/20/2017 10:25	1	12_394m_243.D	ZB-35 0.53(mm)
CCV 480-367887/5		07/20/2017 10:40	1	12_394m_244.D	ZB-5 0.53(mm)
CCV 480-367887/5		07/20/2017 10:40	1	12_394m_244.D	ZB-35 0.53(mm)
CCV 480-367887/6		07/20/2017 10:56	1	12_394m_245.D	ZB-5 0.53(mm)
CCV 480-367887/6		07/20/2017 10:56	1	12_394m_245.D	ZB-35 0.53(mm)
CCV 480-367887/7		07/20/2017 11:11	1	12_394m_246.D	ZB-5 0.53(mm)
CCV 480-367887/7		07/20/2017 11:11	1	12_394m_246.D	ZB-35 0.53(mm)
CCV 480-367887/8		07/20/2017 11:26	1	12_394m_247.D	ZB-5 0.53(mm)
CCV 480-367887/8		07/20/2017 11:26	1	12_394m_247.D	ZB-35 0.53(mm)
ZZZZZ		07/20/2017 11:57	1		ZB-5 0.53(mm)
ZZZZZ		07/20/2017 11:57	1		ZB-35 0.53(mm)
ZZZZZ		07/20/2017 12:12	1		ZB-5 0.53(mm)
ZZZZZ		07/20/2017 12:12	1		ZB-35 0.53(mm)
ZZZZZ		07/20/2017 12:28	1		ZB-5 0.53(mm)
ZZZZZ		07/20/2017 12:28	1		ZB-35 0.53(mm)
ZZZZZ		07/20/2017 12:43	1		ZB-5 0.53(mm)
ZZZZZ		07/20/2017 12:43	1		ZB-35 0.53(mm)
ZZZZZ		07/20/2017 12:58	1		ZB-5 0.53(mm)
ZZZZZ		07/20/2017 12:58	1		ZB-35 0.53(mm)
ZZZZZ		07/20/2017 13:14	1		ZB-5 0.53(mm)
ZZZZZ		07/20/2017 13:14	1		ZB-35 0.53(mm)
ZZZZZ		07/20/2017 13:29	1		ZB-5 0.53(mm)
ZZZZZ		07/20/2017 13:29	1		ZB-35 0.53(mm)
ZZZZZ		07/20/2017 13:44	1		ZB-5 0.53(mm)
ZZZZZ		07/20/2017 13:44	1		ZB-35 0.53(mm)
MB 480-367916/1-A		07/20/2017 17:41	1	12_394m_257.D	ZB-5 0.53(mm)
MB 480-367916/1-A		07/20/2017 17:41	1	12_394m_257.D	ZB-35 0.53(mm)
LCS 480-367916/2-A		07/20/2017 17:56	1	12_394m_258.D	ZB-5 0.53(mm)
LCS 480-367916/2-A		07/20/2017 17:56	1	12_394m_258.D	ZB-35 0.53(mm)
480-121321-4 MS		07/20/2017 18:12	1	12_394m_259.D	ZB-5 0.53(mm)
480-121321-4 MS		07/20/2017 18:12	1	12_394m_259.D	ZB-35 0.53(mm)
480-121321-4 MSD		07/20/2017 18:27	1	12_394m_260.D	ZB-5 0.53(mm)
480-121321-4 MSD		07/20/2017 18:27	1	12_394m_260.D	ZB-35 0.53(mm)
480-121321-4		07/20/2017 18:43	1	12_394m_261.D	ZB-5 0.53(mm)
480-121321-4		07/20/2017 18:43	1	12_394m_261.D	ZB-35 0.53(mm)
480-121321-1		07/20/2017 18:58	1	12_394m_262.D	ZB-5 0.53(mm)
480-121321-1		07/20/2017 18:58	1	12_394m_262.D	ZB-35 0.53(mm)
480-121321-2		07/20/2017 19:13	1	12_394m_263.D	ZB-5 0.53(mm)
480-121321-2		07/20/2017 19:13	1	12_394m_263.D	ZB-35 0.53(mm)
480-121321-3		07/20/2017 19:29	1	12_394m_264.D	ZB-5 0.53(mm)
480-121321-3		07/20/2017 19:29	1	12_394m_264.D	ZB-35 0.53(mm)
480-121321-5		07/20/2017 19:44	1	12_394m_265.D	ZB-5 0.53(mm)
480-121321-5		07/20/2017 19:44	1	12_394m_265.D	ZB-35 0.53(mm)
480-121321-6		07/20/2017 19:59	1	12_394m_266.D	ZB-5 0.53(mm)

PCBS ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1

SDG No.:

Instrument ID: HP5890-12 Start Date: 07/20/2017 10:25

Analysis Batch Number: 367887 End Date: 07/20/2017 22:17

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
480-121321-6		07/20/2017 19:59	1	12_394m_266.D	ZB-35 0.53(mm)
ZZZZZ		07/20/2017 20:15	1		ZB-5 0.53(mm)
ZZZZZ		07/20/2017 20:15	1		ZB-35 0.53(mm)
ZZZZZ		07/20/2017 20:30	1		ZB-5 0.53(mm)
ZZZZZ		07/20/2017 20:30	1		ZB-35 0.53(mm)
CCV 480-367887/30		07/20/2017 20:45	1		ZB-5 0.53(mm)
CCV 480-367887/30		07/20/2017 20:45	1		ZB-35 0.53(mm)
ZZZZZ		07/20/2017 21:16	1		ZB-5 0.53(mm)
ZZZZZ		07/20/2017 21:16	1		ZB-35 0.53(mm)
ZZZZZ		07/20/2017 21:31	1		ZB-5 0.53(mm)
ZZZZZ		07/20/2017 21:31	1		ZB-35 0.53(mm)
ZZZZZ		07/20/2017 21:47	1		ZB-5 0.53(mm)
ZZZZZ		07/20/2017 21:47	1		ZB-35 0.53(mm)
ZZZZZ		07/20/2017 22:02	1		ZB-5 0.53(mm)
ZZZZZ		07/20/2017 22:02	1		ZB-35 0.53(mm)
ZZZZZ		07/20/2017 22:17	1		ZB-5 0.53(mm)
ZZZZZ		07/20/2017 22:17	1		ZB-35 0.53(mm)

PCBS BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1

SDG No.:

Batch Number: 367916 Batch Start Date: 07/20/17 10:58 Batch Analyst: Kelly, Breannon E

Batch Method: 3550C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	CalcMsg	InitialAmount	FinalAmount	O_8081/82surr 00100	O_8082spike 00059	AnalysisComment
MB 480-367916/1		3550C, 8082A		CALC NOT SET TO RUN	2.86 g	10 mL	1 mL		
LCS 480-367916/2		3550C, 8082A		CALC NOT SET TO RUN	2.89 g	10 mL	1 mL	1 mL	
480-121321-B-4 MS	TP-04	3550C, 8082A	T	CALC NOT SET TO RUN	2.31 g	10 mL	1 mL	1 mL	Clay/Sand
480-121321-B-4 MSD	TP-04	3550C, 8082A	T	CALC NOT SET TO RUN	2.84 g	10 mL	1 mL	1 mL	Clay/Sand
480-121321-B-4	TP-04	3550C, 8082A	T	CALC NOT SET TO RUN	2.36 g	10 mL	1 mL		Clay/Sand
480-121321-B-1	TP-01	3550C, 8082A	T	CALC NOT SET TO RUN	2.36 g	10 mL	1 mL		Clay/Sand
480-121321-B-2	TP-03	3550C, 8082A	T	CALC NOT SET TO RUN	2.86 g	10 mL	1 mL		Clay/Sand
480-121321-B-3	TP-18	3550C, 8082A	T	CALC NOT SET TO RUN	2.69 g	10 mL	1 mL		Clay/Sand
480-121321-B-5	TP-05	3550C, 8082A	T	CALC NOT SET TO RUN	2.51 g	10 mL	1 mL		Clay/Sand
480-121321-B-6	DUP	3550C, 8082A	T	CALC NOT SET TO RUN	2.80 g	10 mL	1 mL		Clay/Sand

Batch Notes	
Acid used for Clean Up ID	Sulfuric;3829042
Blank Soil Lot Number	3934401
Analyst ID - Concentration	BK
Analyst ID - Clean Up	BK 7/20/17
Na2SO4 ID	3934401
Nominal Amount Used	30 g
Prep Solvent ID	4123568/4084683
Prep Solvent Name	Hexane/Acetone
Prep Solvent Volume Used	10mL
Analyst ID - Reagent Drop Witness	BK
Perform Calculation (0=No, 1=Yes)	0

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

PCBS BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1

SDG No.:

Batch Number: 367916 Batch Start Date: 07/20/17 10:58 Batch Analyst: Kelly, Breannon E

Batch Method: 3550C Batch End Date:

Basis	Basis Description
T	Total/NA

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

METALS

COVER PAGE
METALS

Lab Name: TestAmerica Buffalo Job Number: 480-121321-1

SDG No.:

Project: Nash Rd. Wheatfield #932054

Client Sample ID	Lab Sample ID
TP-01	480-121321-1
TP-03	480-121321-2
TP-18	480-121321-3
TP-04	480-121321-4
TP-05	480-121321-5
DUP	480-121321-6

Comments:

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: TP-01 | Lab Sample ID: 480-121321-1

Lab Name: TestAmerica Buffalo | Job No.: 480-121321-1

SDG ID.:

Matrix: Solid | Date Sampled: 07/19/2017 09:00

Reporting Basis: DRY | Date Received: 07/19/2017 17:00

% Solids: 79.8

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	17800	11.2	4.9	mg/Kg			1	6010C
7440-36-0	Antimony	ND	16.8	0.45	mg/Kg			1	6010C
7440-38-2	Arsenic	3.8	2.2	0.45	mg/Kg			1	6010C
7440-39-3	Barium	82.0	0.56	0.12	mg/Kg			1	6010C
7440-41-7	Beryllium	0.90	0.22	0.031	mg/Kg			1	6010C
7440-43-9	Cadmium	ND	0.22	0.034	mg/Kg			1	6010C
7440-70-2	Calcium	4210	55.9	3.7	mg/Kg		B	1	6010C
7440-47-3	Chromium	22.5	0.56	0.22	mg/Kg			1	6010C
7440-48-4	Cobalt	6.8	0.56	0.056	mg/Kg			1	6010C
7440-50-8	Copper	19.9	1.1	0.23	mg/Kg			1	6010C
7439-89-6	Iron	26800	11.2	3.9	mg/Kg			1	6010C
7439-92-1	Lead	14.2	1.1	0.27	mg/Kg			1	6010C
7439-95-4	Magnesium	2800	22.4	1.0	mg/Kg			1	6010C
7439-96-5	Manganese	119	0.22	0.036	mg/Kg		B ^	1	6010C
7440-02-0	Nickel	18.4	5.6	0.26	mg/Kg			1	6010C
7440-09-7	Potassium	1710	33.5	22.4	mg/Kg			1	6010C
7782-49-2	Selenium	ND	4.5	0.45	mg/Kg			1	6010C
7440-22-4	Silver	ND	0.67	0.22	mg/Kg			1	6010C
7440-23-5	Sodium	98.6	157	14.5	mg/Kg	J	B	1	6010C
7440-28-0	Thallium	ND	6.7	0.34	mg/Kg			1	6010C
7440-62-2	Vanadium	41.2	0.56	0.12	mg/Kg			1	6010C
7440-66-6	Zinc	54.7	2.2	0.72	mg/Kg			1	6010C
7439-97-6	Mercury	0.059	0.026	0.010	mg/Kg			1	7471B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: TP-03 | Lab Sample ID: 480-121321-2

Lab Name: TestAmerica Buffalo | Job No.: 480-121321-1

SDG ID.:

Matrix: Solid | Date Sampled: 07/19/2017 10:00

Reporting Basis: DRY | Date Received: 07/19/2017 17:00

% Solids: 82.6

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	14600	11.3	5.0	mg/Kg			1	6010C
7440-36-0	Antimony	ND	16.9	0.45	mg/Kg			1	6010C
7440-38-2	Arsenic	2.2	2.3	0.45	mg/Kg	J		1	6010C
7440-39-3	Barium	66.5	0.56	0.12	mg/Kg			1	6010C
7440-41-7	Beryllium	0.42	0.23	0.032	mg/Kg			1	6010C
7440-43-9	Cadmium	ND	0.23	0.034	mg/Kg			1	6010C
7440-70-2	Calcium	8920	56.4	3.7	mg/Kg		B	1	6010C
7440-47-3	Chromium	16.3	0.56	0.23	mg/Kg			1	6010C
7440-48-4	Cobalt	4.2	0.56	0.056	mg/Kg			1	6010C
7440-50-8	Copper	5.9	1.1	0.24	mg/Kg			1	6010C
7439-89-6	Iron	10500	11.3	3.9	mg/Kg			1	6010C
7439-92-1	Lead	7.0	1.1	0.27	mg/Kg			1	6010C
7439-95-4	Magnesium	2280	22.6	1.0	mg/Kg			1	6010C
7439-96-5	Manganese	56.8	0.23	0.036	mg/Kg		B ^	1	6010C
7440-02-0	Nickel	12.6	5.6	0.26	mg/Kg			1	6010C
7440-09-7	Potassium	1440	33.8	22.6	mg/Kg			1	6010C
7782-49-2	Selenium	ND	4.5	0.45	mg/Kg			1	6010C
7440-22-4	Silver	ND	0.68	0.23	mg/Kg			1	6010C
7440-23-5	Sodium	201	158	14.7	mg/Kg		B	1	6010C
7440-28-0	Thallium	ND	6.8	0.34	mg/Kg			1	6010C
7440-62-2	Vanadium	28.0	0.56	0.12	mg/Kg			1	6010C
7440-66-6	Zinc	38.1	2.3	0.72	mg/Kg			1	6010C
7439-97-6	Mercury	0.036	0.024	0.0098	mg/Kg			1	7471B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: TP-18 | Lab Sample ID: 480-121321-3

Lab Name: TestAmerica Buffalo | Job No.: 480-121321-1

SDG ID.:

Matrix: Solid | Date Sampled: 07/19/2017 11:00

Reporting Basis: DRY | Date Received: 07/19/2017 17:00

% Solids: 78.1

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	10500	12.3	5.4	mg/Kg			1	6010C
7440-36-0	Antimony	ND	18.4	0.49	mg/Kg			1	6010C
7440-38-2	Arsenic	3.7	2.5	0.49	mg/Kg			1	6010C
7440-39-3	Barium	55.2	0.61	0.14	mg/Kg			1	6010C
7440-41-7	Beryllium	0.37	0.25	0.034	mg/Kg			1	6010C
7440-43-9	Cadmium	1.4	0.25	0.037	mg/Kg			1	6010C
7440-70-2	Calcium	38300	61.5	4.1	mg/Kg		B	1	6010C
7440-47-3	Chromium	16.7	0.61	0.25	mg/Kg			1	6010C
7440-48-4	Cobalt	5.5	0.61	0.061	mg/Kg			1	6010C
7440-50-8	Copper	39.2	1.2	0.26	mg/Kg			1	6010C
7439-89-6	Iron	15500	12.3	4.3	mg/Kg			1	6010C
7439-92-1	Lead	27.9	1.2	0.30	mg/Kg			1	6010C
7439-95-4	Magnesium	13300	24.6	1.1	mg/Kg			1	6010C
7439-96-5	Manganese	302	0.25	0.039	mg/Kg		B ^	1	6010C
7440-02-0	Nickel	16.6	6.1	0.28	mg/Kg			1	6010C
7440-09-7	Potassium	1940	36.9	24.6	mg/Kg			1	6010C
7782-49-2	Selenium	ND	4.9	0.49	mg/Kg			1	6010C
7440-22-4	Silver	ND	0.74	0.25	mg/Kg			1	6010C
7440-23-5	Sodium	165	172	16.0	mg/Kg	J	B	1	6010C
7440-28-0	Thallium	ND	7.4	0.37	mg/Kg			1	6010C
7440-62-2	Vanadium	24.7	0.61	0.14	mg/Kg			1	6010C
7440-66-6	Zinc	104	2.5	0.79	mg/Kg			1	6010C
7439-97-6	Mercury	0.091	0.026	0.011	mg/Kg			1	7471B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: TP-04 | Lab Sample ID: 480-121321-4

Lab Name: TestAmerica Buffalo | Job No.: 480-121321-1

SDG ID.:

Matrix: Solid | Date Sampled: 07/19/2017 13:00

Reporting Basis: DRY | Date Received: 07/19/2017 17:00

% Solids: 82.1

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	9820	11.9	5.2	mg/Kg			1	6010C
7440-36-0	Antimony	ND	17.8	0.48	mg/Kg			1	6010C
7440-38-2	Arsenic	2.4	2.4	0.48	mg/Kg			1	6010C
7440-39-3	Barium	43.7	0.59	0.13	mg/Kg			1	6010C
7440-41-7	Beryllium	0.25	0.24	0.033	mg/Kg			1	6010C
7440-43-9	Cadmium	0.16	0.24	0.036	mg/Kg	J		1	6010C
7440-70-2	Calcium	13600	59.5	3.9	mg/Kg		F2 B	1	6010C
7440-47-3	Chromium	11.1	0.59	0.24	mg/Kg			1	6010C
7440-48-4	Cobalt	2.6	0.59	0.059	mg/Kg			1	6010C
7440-50-8	Copper	16.1	1.2	0.25	mg/Kg			1	6010C
7439-89-6	Iron	7460	11.9	4.2	mg/Kg		F1	1	6010C
7439-92-1	Lead	12.6	1.2	0.29	mg/Kg			1	6010C
7439-95-4	Magnesium	5500	23.8	1.1	mg/Kg		F1 F2	1	6010C
7439-96-5	Manganese	106	0.24	0.038	mg/Kg		F1 F2 B ^	1	6010C
7440-02-0	Nickel	9.7	5.9	0.27	mg/Kg			1	6010C
7440-09-7	Potassium	1220	35.7	23.8	mg/Kg		F1	1	6010C
7782-49-2	Selenium	ND	4.8	0.48	mg/Kg			1	6010C
7440-22-4	Silver	ND	0.71	0.24	mg/Kg			1	6010C
7440-23-5	Sodium	352	167	15.5	mg/Kg		B	1	6010C
7440-28-0	Thallium	ND	7.1	0.36	mg/Kg			1	6010C
7440-62-2	Vanadium	18.3	0.59	0.13	mg/Kg			1	6010C
7440-66-6	Zinc	50.5	2.4	0.76	mg/Kg		F1	1	6010C
7439-97-6	Mercury	0.023	0.024	0.0099	mg/Kg	J		1	7471B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: TP-05 | Lab Sample ID: 480-121321-5

Lab Name: TestAmerica Buffalo | Job No.: 480-121321-1

SDG ID.:

Matrix: Solid | Date Sampled: 07/19/2017 14:00

Reporting Basis: DRY | Date Received: 07/19/2017 17:00

% Solids: 79.0

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	9420	12.3	5.4	mg/Kg			1	6010C
7440-36-0	Antimony	ND	18.5	0.49	mg/Kg			1	6010C
7440-38-2	Arsenic	2.5	2.5	0.49	mg/Kg			1	6010C
7440-39-3	Barium	39.0	0.62	0.14	mg/Kg			1	6010C
7440-41-7	Beryllium	0.35	0.25	0.035	mg/Kg			1	6010C
7440-43-9	Cadmium	0.073	0.25	0.037	mg/Kg	J		1	6010C
7440-70-2	Calcium	21500	61.6	4.1	mg/Kg		B	1	6010C
7440-47-3	Chromium	13.0	0.62	0.25	mg/Kg			1	6010C
7440-48-4	Cobalt	4.0	0.62	0.062	mg/Kg			1	6010C
7440-50-8	Copper	9.1	1.2	0.26	mg/Kg			1	6010C
7439-89-6	Iron	11400	12.3	4.3	mg/Kg			1	6010C
7439-92-1	Lead	9.1	1.2	0.30	mg/Kg			1	6010C
7439-95-4	Magnesium	9500	24.6	1.1	mg/Kg			1	6010C
7439-96-5	Manganese	189	0.25	0.039	mg/Kg		B ^	1	6010C
7440-02-0	Nickel	10.8	6.2	0.28	mg/Kg			1	6010C
7440-09-7	Potassium	1350	37.0	24.6	mg/Kg			1	6010C
7782-49-2	Selenium	ND	4.9	0.49	mg/Kg			1	6010C
7440-22-4	Silver	ND	0.74	0.25	mg/Kg			1	6010C
7440-23-5	Sodium	268	173	16.0	mg/Kg		B	1	6010C
7440-28-0	Thallium	ND	7.4	0.37	mg/Kg			1	6010C
7440-62-2	Vanadium	25.0	0.62	0.14	mg/Kg			1	6010C
7440-66-6	Zinc	41.6	2.5	0.79	mg/Kg			1	6010C
7439-97-6	Mercury	0.032	0.025	0.010	mg/Kg			1	7471B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: DUP
Lab Sample ID: 480-121321-6
Lab Name: TestAmerica Buffalo
Job No.: 480-121321-1
SDG ID.:
Matrix: Solid
Date Sampled: 07/19/2017 00:00
Reporting Basis: DRY
Date Received: 07/19/2017 17:00
% Solids: 82.4

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	12600	11.0	4.9	mg/Kg			1	6010C
7440-36-0	Antimony	ND	16.6	0.44	mg/Kg			1	6010C
7440-38-2	Arsenic	3.3	2.2	0.44	mg/Kg			1	6010C
7440-39-3	Barium	55.0	0.55	0.12	mg/Kg			1	6010C
7440-41-7	Beryllium	0.37	0.22	0.031	mg/Kg			1	6010C
7440-43-9	Cadmium	0.053	0.22	0.033	mg/Kg	J		1	6010C
7440-70-2	Calcium	11500	55.2	3.6	mg/Kg		B	1	6010C
7440-47-3	Chromium	15.2	0.55	0.22	mg/Kg			1	6010C
7440-48-4	Cobalt	4.2	0.55	0.055	mg/Kg			1	6010C
7440-50-8	Copper	10.0	1.1	0.23	mg/Kg			1	6010C
7439-89-6	Iron	13700	11.0	3.9	mg/Kg			1	6010C
7439-92-1	Lead	9.8	1.1	0.27	mg/Kg			1	6010C
7439-95-4	Magnesium	5890	22.1	1.0	mg/Kg			1	6010C
7439-96-5	Manganese	264	0.22	0.035	mg/Kg		B ^	1	6010C
7440-02-0	Nickel	12.6	5.5	0.25	mg/Kg			1	6010C
7440-09-7	Potassium	1360	33.1	22.1	mg/Kg			1	6010C
7782-49-2	Selenium	ND	4.4	0.44	mg/Kg			1	6010C
7440-22-4	Silver	ND	0.66	0.22	mg/Kg			1	6010C
7440-23-5	Sodium	304	155	14.4	mg/Kg		B	1	6010C
7440-28-0	Thallium	ND	6.6	0.33	mg/Kg			1	6010C
7440-62-2	Vanadium	27.5	0.55	0.12	mg/Kg			1	6010C
7440-66-6	Zinc	44.0	2.2	0.71	mg/Kg			1	6010C
7439-97-6	Mercury	0.027	0.024	0.0097	mg/Kg			1	7471B

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1

SDG No.:

ICV Source: MEI_04_ICV_00338 Concentration Units: mg/L

CCV Source: MEI_09_CCV_00254

Analyte	ICV 480-368738/5 07/25/2017 11:08				CCV 480-368738/17 07/25/2017 14:45				CCV 480-368738/28 07/25/2017 15:26			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Aluminum	18.81		18.8	100	24.57		25.0	98	24.68		25.0	99
Antimony	0.373		0.375	99	0.487		0.500	97	0.490		0.500	98
Arsenic	0.375		0.375	100	0.505		0.500	101	0.504		0.500	101
Barium	0.374		0.375	100	0.477		0.500	95	0.477		0.500	95
Beryllium	0.379		0.375	101	0.481		0.500	96	0.486		0.500	97
Cadmium	0.375		0.375	100	0.493		0.500	99	0.494		0.500	99
Calcium	18.72		18.8	100	24.20		25.0	97	24.52		25.0	98
Chromium	0.384		0.375	102	0.535		0.500	107	0.534		0.500	107
Cobalt	0.368		0.375	98	0.488		0.500	98	0.489		0.500	98
Copper	0.376		0.375	100	0.477		0.500	95	0.479		0.500	96
Iron	18.49		18.8	99	23.17		25.0	93	23.50		25.0	94
Lead	0.371		0.375	99	0.496		0.500	99	0.498		0.500	100
Magnesium	18.93		18.8	101	24.81		25.0	99	24.80		25.0	99
Manganese	0.386		0.375	103	0.505		0.500	101	0.504		0.500	101
Nickel	0.372		0.375	99	0.491		0.500	98	0.493		0.500	99
Potassium	18.63		18.8	99	23.57		25.0	94	24.00		25.0	96
Selenium	0.372		0.375	99	0.502		0.500	100	0.503		0.500	101
Silver	0.371		0.375	99	0.518		0.500	104	0.517		0.500	103
Sodium	18.60		18.8	99	24.14		25.0	97	24.43		25.0	98
Thallium	0.379		0.375	101	0.507		0.500	101	0.507		0.500	101
Vanadium	0.378		0.375	101	0.519		0.500	104	0.517		0.500	103
Zinc	0.382		0.375	102	0.521		0.500	104	0.519		0.500	104

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

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1

SDG No.:

ICV Source: MEI_04_ICV_00338 Concentration Units: mg/L

CCV Source: MEI_09_CCV_00254

Analyte	CCV 480-368738/40 07/25/2017 16:12											
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Aluminum	24.60		25.0	98								
Antimony	0.487		0.500	97								
Arsenic	0.506		0.500	101								
Barium	0.479		0.500	96								
Beryllium	0.486		0.500	97								
Cadmium	0.494		0.500	99								
Calcium	24.51		25.0	98								
Chromium	0.532		0.500	106								
Cobalt	0.488		0.500	98								
Copper	0.477		0.500	95								
Iron	23.46		25.0	94								
Lead	0.498		0.500	100								
Magnesium	24.93		25.0	100								
Manganese	0.506		0.500	101								
Nickel	0.493		0.500	99								
Potassium	23.96		25.0	96								
Selenium	0.503		0.500	101								
Silver	0.516		0.500	103								
Sodium	24.38		25.0	98								
Thallium	0.506		0.500	101								
Vanadium	0.518		0.500	104								
Zinc	0.522		0.500	104								

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

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1

SDG No.:

ICV Source: MEI_10_CCVL_00149 Concentration Units: mg/L

CCV Source: MEI_10_CCVL_00149

Analyte	ICVL 480-368738/7 07/25/2017 11:15				CCVL 480-368738/19 07/25/2017 14:52				CCVL 480-368738/30 07/25/2017 15:33			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Aluminum	0.205		0.200	103	0.211		0.200	106	0.211		0.200	105
Antimony	0.0199	J	0.0200	100	0.0193	J	0.0200	97	0.0204		0.0200	102
Arsenic	0.0157		0.0150	105	0.0156		0.0150	104	0.0164		0.0150	109
Barium	0.00208		0.00200	104	0.00206		0.00200	103	0.00205		0.00200	103
Beryllium	0.00201		0.00200	101	0.00200		0.00200	100	0.00203		0.00200	102
Cadmium	0.00192	J	0.00200	96	0.00199	J	0.00200	100	0.00186	J	0.00200	93
Calcium	0.498	J	0.500	100	0.495	J	0.500	99	0.499	J	0.500	100
Chromium	0.00420		0.00400	105	0.00434		0.00400	109	0.00418		0.00400	105
Cobalt	0.00380	J	0.00400	95	0.00384	J	0.00400	96	0.00382	J	0.00400	96
Copper	0.0103		0.0100	103	0.00987	J	0.0100	99	0.00917	J	0.0100	92
Iron	0.0509		0.0500	102	0.0510		0.0500	102	0.0513		0.0500	103
Lead	0.00866	J	0.0100	87	0.00938	J	0.0100	94	0.00970	J	0.0100	97
Magnesium	0.199	J	0.200	99	0.196	J	0.200	98	0.200		0.200	100
Manganese	0.00315		0.00300	105	0.00324		0.00300	108	0.00386		0.00300	129
Nickel	0.00993	J	0.0100	99	0.00987	J	0.0100	99	0.00973	J	0.0100	97
Potassium	0.510		0.500	102	0.505		0.500	101	0.480	J	0.500	96
Selenium	0.0253		0.0250	101	0.0224	J	0.0250	90	0.0229	J	0.0250	92
Silver	0.00547	J	0.00600	91	0.00558	J	0.00600	93	0.00609		0.00600	102
Sodium	0.988	J	1.00	99	1.05		1.00	105	1.01		1.00	101
Thallium	0.0202		0.0200	101	0.0212		0.0200	106	0.0196	J	0.0200	98
Vanadium	0.00541		0.00500	108	0.00575		0.00500	115	0.00518		0.00500	104
Zinc	0.0110		0.0100	110	0.0112		0.0100	112	0.0114		0.0100	114

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.: 480-121321-1

SDG No.:

ICV Source: MEI_10_CCVL_00149 Concentration Units: mg/L

CCV Source: MEI_10_CCVL_00149

Analyte	CCVL 480-368738/42 07/25/2017 16:21											
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Aluminum	0.215		0.200	107								
Antimony	0.0196	J	0.0200	98								
Arsenic	0.0148	J	0.0150	99								
Barium	0.00210		0.00200	105								
Beryllium	0.00210		0.00200	105								
Cadmium	0.00193	J	0.00200	97								
Calcium	0.514		0.500	103								
Chromium	0.00423		0.00400	106								
Cobalt	0.00396	J	0.00400	99								
Copper	0.00966	J	0.0100	97								
Iron	0.0573		0.0500	115								
Lead	0.00827	J	0.0100	83								
Magnesium	0.201		0.200	100								
Manganese	0.00440		0.00300	147								
Nickel	0.00992	J	0.0100	99								
Potassium	0.492	J	0.500	98								
Selenium	0.0221	J	0.0250	89								
Silver	0.00586	J	0.00600	98								
Sodium	1.00		1.00	100								
Thallium	0.0205		0.0200	102								
Vanadium	0.00480	J	0.00500	96								
Zinc	0.0111		0.0100	111								

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.: 480-121321-1

SDG No.:

ICV Source: MEH_HG1_WKG_01536 Concentration Units: mg/L

CCV Source: MEH_HG1_WKG_01536

Analyte	ICV 480-368435/1 07/24/2017 14:38				ICVL 480-368435/3 07/24/2017 14:42				CCV 480-368435/4 07/24/2017 14:43			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury	0.00283		0.00300	94	0.000202		0.000200	101	0.00195		0.00200	98

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.: 480-121321-1

SDG No.:

ICV Source: MEH_HG1_WKG_01536 Concentration Units: mg/L

CCV Source: MEH_HG1_WKG_01536

Analyte	CCV 480-368435/16 07/24/2017 15:02				CCV 480-368435/28 07/24/2017 15:21				CCVL 480-368435/37 07/24/2017 15:37			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury	0.00191		0.00200	96	0.00190		0.00200	95	0.000173	J	0.000200	87

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.: 480-121321-1

SDG No.:

Concentration Units: mg/L

Analyte	RL	ICB 480-368738/6 07/25/2017 11:11		CCB 480-368738/18 07/25/2017 14:49		CCB 480-368738/29 07/25/2017 15:29		CCB 480-368738/41 07/25/2017 16:15	
		Found	C	Found	C	Found	C	Found	C
Aluminum	0.20	ND		ND		ND		ND	
Antimony	0.020	ND		ND		ND		ND	
Arsenic	0.015	ND		ND		ND		ND	
Barium	0.0020	ND		ND		ND		ND	
Beryllium	0.0020	ND		ND		ND		ND	
Cadmium	0.0020	ND		ND		ND		ND	
Calcium	0.50	ND		ND		ND		ND	
Chromium	0.0040	ND		ND		ND		ND	
Cobalt	0.0040	ND		ND		ND		ND	
Copper	0.010	ND		ND		ND		ND	
Iron	0.050	ND		ND		0.0212	J	ND	
Lead	0.010	ND		ND		ND		ND	
Magnesium	0.20	ND		ND		ND		ND	
Manganese	0.0030	ND		ND		0.0106		ND	
Nickel	0.010	ND		ND		ND		ND	
Potassium	0.50	ND		ND		ND		ND	
Selenium	0.025	ND		ND		ND		ND	
Silver	0.0060	ND		ND		ND		ND	
Sodium	1.0	ND		ND		ND		ND	
Thallium	0.020	ND		ND		ND		ND	
Vanadium	0.0050	ND		ND		ND		ND	
Zinc	0.010	ND		ND		ND		ND	

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1

SDG No.:

Concentration Units: mg/L

Analyte	RL	ICB 480-368435/2 07/24/2017 14:40		CCB 480-368435/5 07/24/2017 14:45		CCB 480-368435/17 07/24/2017 15:04		CCB 480-368435/29 07/24/2017 15:23	
		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.: 480-121321-1

SDG No.:

Concentration Units: mg/Kg Lab Sample ID: MB 480-368424/1-A

Instrument Code: ICAP2 Batch No.: 368738

CAS No.	Analyte	Concentration	C	Q	Method
7429-90-5	Aluminum	ND			6010C
7440-36-0	Antimony	ND			6010C
7440-38-2	Arsenic	ND			6010C
7440-39-3	Barium	ND			6010C
7440-41-7	Beryllium	ND			6010C
7440-43-9	Cadmium	ND			6010C
7440-70-2	Calcium	5.62	J		6010C
7440-47-3	Chromium	ND			6010C
7440-48-4	Cobalt	ND			6010C
7440-50-8	Copper	ND			6010C
7439-89-6	Iron	ND			6010C
7439-92-1	Lead	ND			6010C
7439-95-4	Magnesium	ND			6010C
7439-96-5	Manganese	0.0745	J		6010C
7440-02-0	Nickel	ND			6010C
7440-09-7	Potassium	ND			6010C
7782-49-2	Selenium	ND			6010C
7440-22-4	Silver	ND			6010C
7440-23-5	Sodium	29.78	J		6010C
7440-28-0	Thallium	ND			6010C
7440-62-2	Vanadium	ND			6010C
7440-66-6	Zinc	ND			6010C

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1

SDG No.:

Concentration Units: mg/Kg Lab Sample ID: MB 480-368382/1-A

Instrument Code: LEEMAN2 Batch No.: 368435

CAS No.	Analyte	Concentration	C	Q	Method
7439-97-6	Mercury	ND			7471B

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1

SDG No.:

Lab Sample ID: ICSA 480-368738/8 Instrument ID: ICAP2

Lab File ID: I2072517A-7.asc ICS Source: MEI_07_ICSA_00101

Concentration Units: mg/L

Analyte	True Solution A	Found Solution A	Percent Recovery
Aluminum	**500**	**507**	**101**
Antimony		**-0.0002**	
Arsenic		**0.0005**	
Barium		**0.0007**	
Beryllium		**-0.0001**	
Cadmium		**-0.0005**	
Calcium	**500**	**468**	**94**
Chromium		**-0.0002**	
Cobalt		**-0.0008**	
Copper		**-0.0048**	
Iron	**200**	**187**	**94**
Lead		**-0.0027**	
Magnesium	**500**	**520**	**104**
Manganese		**0.0003**	
Nickel		**-0.0014**	
Potassium		**-0.0368**	
Selenium		**0.0006**	
Silver		**-0.0008**	
Sodium		**0.0183**	
Thallium		**-0.0014**	
Vanadium		**0.0016**	
Zinc		**0.0042**	
Boron		*-0.0014*	
Lithium		*-0.0165*	
Molybdenum		*-0.0014*	
Tin		*0.0021*	
Titanium		*-0.0009*	

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.: 480-121321-1

SDG No.:

Lab Sample ID: ICSAB 480-368738/9 Instrument ID: ICAP2

Lab File ID: I2072517A-7.asc ICS Source: MEI_08_ICSAB_00114

Concentration Units: mg/L

Analyte	True Solution AB	Found Solution AB	Percent Recovery
Aluminum	**500**	**533**	**107**
Antimony	**0.600**	**0.589**	**98**
Arsenic	**0.100**	**0.110**	**110**
Barium	**0.500**	**0.489**	**98**
Beryllium	**0.501**	**0.503**	**100**
Cadmium	**1.00**	**1.00**	**100**
Calcium	**500**	**472**	**94**
Chromium	**0.500**	**0.497**	**99**
Cobalt	**0.500**	**0.490**	**98**
Copper	**0.501**	**0.512**	**102**
Iron	**100**	**95.3**	**95**
Lead	**0.0501**	**0.0469**	**94**
Magnesium	**500**	**540**	**108**
Manganese	**0.501**	**0.500**	**100**
Nickel	**1.00**	**0.966**	**97**
Potassium		**0.0478**	
Selenium	**0.0501**	**0.0514**	**103**
Silver	**0.200**	**0.225**	**112**
Sodium		**0.131**	
Thallium	**0.100**	**0.0987**	**99**
Vanadium	**0.501**	**0.516**	**103**
Zinc	**1.00**	**0.947**	**95**
Boron		*0.0017*	
Lithium	*0.501*	*0.490*	*98*
Molybdenum		*-0.0003*	
Strontium	*0.500*	*0.485*	*97*
Tin		*0.0022*	
Titanium		*0.0009*	

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

FORM IVA-IN

5A-IN
MATRIX SPIKE SAMPLE RECOVERY
METALS

Client ID: TP-04 MS | Lab ID: 480-121321-4 MS

Lab Name: TestAmerica Buffalo | Job No.: 480-121321-1

SDG No.:

Matrix: Solid | Concentration Units: mg/Kg

% Solids: 82.1

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Aluminum	15390		9820		2390	233	75-125	4	6010C
Antimony	36.12		ND		47.9	75	75-125		6010C
Arsenic	45.47		2.4		47.9	90	75-125		6010C
Barium	99.83		43.7		47.9	117	75-125		6010C
Beryllium	41.22		0.25		47.9	86	75-125		6010C
Cadmium	42.91		0.16	J	47.9	89	75-125		6010C
Calcium	25310		13600		2390	491	75-125	4	6010C
Chromium	59.23		11.1		47.9	101	75-125		6010C
Cobalt	48.77		2.6		47.9	96	75-125		6010C
Copper	53.11		16.1		47.9	77	75-125		6010C
Iron	13180		7460		2390	239	75-125	F1	6010C
Lead	58.14		12.6		47.9	95	75-125		6010C
Magnesium	12720		5500		2390	302	75-125	F1	6010C
Manganese	231.8		106		47.9	262	75-125	F1 ^	6010C
Nickel	55.42		9.7		47.9	96	75-125		6010C
Potassium	4782		1220		2390	149	75-125	F1	6010C
Selenium	42.24		ND		47.9	88	75-125		6010C
Silver	11.00		ND		12.0	92	75-125		6010C
Sodium	2506		352		2400	90	75-125		6010C
Thallium	45.83		ND		47.9	96	75-125		6010C
Vanadium	72.96		18.3		47.9	114	75-125		6010C
Zinc	87.61		50.5		47.9	78	75-125		6010C
Mercury	0.449		0.023	J	0.414	103	80-120		7471B

SSR = Spiked Sample Result

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

FORM VA - IN

5A-IN
MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
METALS

Client ID: TP-04 MSD | Lab ID: 480-121321-4 MSD

Lab Name: TestAmerica Buffalo | Job No.: 480-121321-1

SDG No.:

Matrix: Solid | Concentration Units: mg/Kg

% Solids: 82.1

Analyte	(SDR) C		Spike Added (SA)	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Aluminum	13070		2330	139	75-125	16	20	4	6010C
Antimony	37.42		46.6	80	75-125	4	20		6010C
Arsenic	46.95		46.6	96	75-125	3	20		6010C
Barium	90.68		46.6	101	75-125	10	20		6010C
Beryllium	40.95		46.6	87	75-125	1	20		6010C
Cadmium	43.14		46.6	92	75-125	1	20		6010C
Calcium	38590		2330	1075	75-125	42	20	4 F2	6010C
Chromium	58.21		46.6	101	75-125	2	20		6010C
Cobalt	51.01		46.6	104	75-125	4	20		6010C
Copper	51.32		46.6	76	75-125	3	20		6010C
Iron	13920		2330	278	75-125	5	20	F1	6010C
Lead	56.60		46.6	94	75-125	3	20		6010C
Magnesium	16140		2330	457	75-125	24	20	F1 F2	6010C
Manganese	406.3		46.6	644	75-125	55	20	F1 F2 ^	6010C
Nickel	56.80		46.6	101	75-125	2	20		6010C
Potassium	4704		2330	149	75-125	2	20	F1	6010C
Selenium	42.48		46.6	91	75-125	1	20		6010C
Silver	11.10		11.6	95	75-125	1	20		6010C
Sodium	2530		2330	93	75-125	1	20		6010C
Thallium	46.90		46.6	101	75-125	2	20		6010C
Vanadium	73.20		46.6	118	75-125	0	20		6010C
Zinc	83.52		46.6	71	75-125	5	20	F1	6010C
Mercury	0.422		0.402	99	80-120	6	20		7471B

SDR = Sample Duplicate Result

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

FORM VD - IN

5B-IN
POST DIGESTION SPIKE SAMPLE RECOVERY
METALS

Client ID: TP-04 PDS | Lab ID: 480-121321-4 PDS

Lab Name: TestAmerica Buffalo | Job No.: 480-121321-1

SDG No.:

Matrix: Solid | Concentration Units: mg/Kg

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Aluminum	11780		9820		2380	82	80-120		6010C
Antimony	45.38		ND		47.6	95	80-120		6010C
Arsenic	48.04		2.4		47.6	96	80-120		6010C
Barium	85.60		43.7		47.6	88	80-120		6010C
Beryllium	44.22		0.25		47.6	92	80-120		6010C
Cadmium	45.46		0.16	J	47.6	95	80-120		6010C
Calcium	15350		13600		2380	76	80-120	W	6010C
Chromium	58.60		11.1		47.6	100	80-120		6010C
Cobalt	49.19		2.6		47.6	98	80-120		6010C
Copper	59.60		16.1		47.6	91	80-120		6010C
Iron	9435		7460		2380	83	80-120		6010C
Lead	61.29		12.6		47.6	102	80-120		6010C
Magnesium	7614		5500		2380	89	80-120		6010C
Manganese	147.4		106		47.6	86	80-120	^	6010C
Nickel	56.04		9.7		47.6	97	80-120		6010C
Potassium	3338		1220		2380	89	80-120		6010C
Selenium	46.03		ND		47.6	97	80-120		6010C
Silver	11.56		ND		11.9	97	80-120		6010C
Sodium	2528		352		2380	91	80-120		6010C
Thallium	48.03		ND		47.6	101	80-120		6010C
Vanadium	65.65		18.3		47.6	100	80-120		6010C
Zinc	95.60		50.5		47.6	95	80-120		6010C

SSR = Spiked Sample Result

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

FORM VB - IN

7A-IN
LCS-CERTIFIED REFERENCE MATERIAL
METALS

Lab ID: LCSSRM 480-368424/2-A

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1

Sample Matrix: Solid LCS Source: MED_SRM_D087_00004

Analyte	Solid(mg/Kg)							
	True	Found	C	%R	Limits		Q	Method
Aluminum	8200	9478		115.6	40.0	159.8		6010C
Antimony	105	74.75		71.2	19.6	254.3		6010C
Arsenic	221	190.7		86.3	71.0	133.5		6010C
Barium	428	360.5		84.2	74.3	125.5		6010C
Beryllium	112	95.44		85.2	75.0	125.0		6010C
Cadmium	126	109.6		87.0	73.3	126.2		6010C
Calcium	6160	5307		86.2	73.9	126.1		6010C
Chromium	74.7	73.06		97.8	68.5	131.3		6010C
Cobalt	198	208.6		105.3	74.7	125.8		6010C
Copper	83.3	71.56		85.9	73.8	130.9		6010C
Iron	14600	14020		96.0	36.1	163.7		6010C
Lead	76.9	77.58		100.9	68.8	131.3		6010C
Magnesium	3180	2820		88.7	67.0	133.3		6010C
Manganese	452	396.4		87.7	76.5	123.5		6010C
Nickel	178	193.0		108.4	73.6	128.7		6010C
Potassium	2820	2779		98.5	62.1	137.9		6010C
Selenium	111	95.07		85.6	65.7	134.2		6010C
Silver	59.6	53.04		89.0	66.8	133.1		6010C
Sodium	643	594.4		92.4	54.9	145.1		6010C
Thallium	151	152.7		101.1	68.2	131.1		6010C
Vanadium	150	148.4		98.9	70.7	129.3		6010C
Zinc	338	307.4		90.9	71.9	127.8		6010C

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

FORM VIIA - IN

7A-IN
LCS-CERTIFIED REFERENCE MATERIAL
METALS

Lab ID: LCSSRM 480-368382/2-A ^10

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1

Sample Matrix: Solid LCS Source: MED_SRM_D087_00006

Analyte	Solid(mg/Kg)							
	True	Found	C	%R	Limits		Q	Method
Mercury	12.6	11.60		92.1	44.4	128.6		7471B

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

FORM VIIA - IN

7D-IN
LCSD - CERTIFIED REFERENCE MATERIAL
METALS

Lab ID: LCDSRM 480-368382/3-A ^10

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1

Sample Matrix: Solid LCS Source: MED_SRM_D087_00006

Analyte	(SDR)	C	Spike Added	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Mercury	11.43		12.6	90.7	4-128.6	1	20		7471B

SDR = Spike Duplicate Results
Calculations are performed before rounding to avoid round-off errors in calculated results.

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

Lab ID: 480-121321-4

SDG No:

Lab Name: TestAmerica Buffalo Job No: 480-121321-1

Matrix: Solid Concentration Units: mg/Kg

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	Method
Aluminum	9820		9565		2.6		6010C
Antimony	ND		ND		NC		6010C
Arsenic	2.4		ND		NC		6010C
Barium	43.7		41.89		4.0		6010C
Beryllium	0.25		0.274	J	NC		6010C
Cadmium	0.16	J	ND		NC		6010C
Calcium	13600		13290		2.0		6010C
Chromium	11.1		10.54		4.8		6010C
Cobalt	2.6		2.40	J	8.5		6010C
Copper	16.1		14.58		9.4		6010C
Iron	7460		7338		1.6		6010C
Lead	12.6		10.51		17	V	6010C
Magnesium	5500		5410		1.6		6010C
Manganese	106		105.5		0.65		6010C
Nickel	9.7		9.04	J	6.7		6010C
Potassium	1220		1180		3.4		6010C
Selenium	ND		ND		NC		6010C
Silver	ND		ND		NC		6010C
Sodium	352		357.2	J	NC		6010C
Thallium	ND		ND		NC		6010C
Vanadium	18.3		17.79		2.6		6010C
Zinc	50.5		51.44		1.8		6010C

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

FORM VIII-IN

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

Lab ID: 480-121321-4

SDG No:

Lab Name: TestAmerica Buffalo Job No: 480-121321-1

Matrix: Solid Concentration Units: mg/Kg

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	Method
Mercury	0.023	J	ND		NC		7471B

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

FORM VIII-IN

9-IN
DETECTION LIMITS
METALS

Lab Name: TestAmerica Buffalo Job Number: 480-121321-1

SDG Number:

Matrix: Solid Instrument ID: ICAP2

Method: 6010C MDL Date: 06/04/2015 15:22

Prep Method: 3050B

Analyte	Wavelength/ Mass	RL (mg/Kg)	MDL (mg/Kg)
Aluminum	308.215	10	4.4
Antimony	206.833	15	0.4
Arsenic	189.042	2	0.4
Barium	455.403	0.5	0.11
Beryllium	313.042	0.2	0.028
Cadmium	228.802	0.2	0.03
Calcium	317.933	50	3.3
Chromium	267.716	0.5	0.2
Cobalt	228.616	0.5	0.05
Copper	327.396	1	0.21
Iron	259.940	10	3.5
Lead	220.353	1	0.24
Magnesium	279.079	20	0.927
Manganese	257.610	0.2	0.032
Nickel	231.604	5	0.23
Potassium	766.490	30	20
Selenium	196.090	4	0.4
Silver	328.068	0.6	0.2
Sodium	589.592	140	13
Thallium	190.856	6	0.3
Vanadium	292.402	0.5	0.11
Zinc	206.200	2	0.64

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS

Lab Name: TestAmerica Buffalo Job Number: 480-121321-1

SDG Number:

Matrix: Solid Instrument ID: ICAP2

Method: 6010C XMDL Date: 07/17/2013 10:53

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Aluminum	308.215	0.2	0.06
Antimony	206.833	0.02	0.00679
Arsenic	189.042	0.015	0.00555
Barium	455.403	0.002	0.0007
Beryllium	313.042	0.002	0.0003
Cadmium	228.802	0.002	0.0005
Calcium	317.933	0.5	0.1
Chromium	267.716	0.004	0.001
Cobalt	228.616	0.004	0.00063
Copper	327.396	0.01	0.0016
Iron	259.940	0.05	0.0193
Lead	220.353	0.01	0.003
Magnesium	279.079	0.2	0.0434
Manganese	257.610	0.003	0.0004
Nickel	231.604	0.01	0.00126
Potassium	766.490	0.5	0.1
Selenium	196.090	0.025	0.0087
Silver	328.068	0.006	0.0017
Sodium	589.592	1	0.324
Thallium	190.856	0.02	0.01024
Vanadium	292.402	0.005	0.0015
Zinc	206.200	0.01	0.0015

9-IN
DETECTION LIMITS
METALS

Lab Name: TestAmerica Buffalo Job Number: 480-121321-1

SDG Number:

Matrix: Solid Instrument ID: LEEMAN2

Method: 7471B MDL Date: 01/29/2010 00:00

Prep Method: 7471B

Analyte	Wavelength/ Mass	RL (mg/Kg)	MDL (mg/Kg)
Mercury	253.7	0.02	0.0081

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS

Lab Name: TestAmerica Buffalo Job Number: 480-121321-1

SDG Number:

Matrix: Solid Instrument ID: LEEMAN2

Method: 7471B XMDL Date: 01/29/2010 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: 480-121321-1

SDG No.:

ICP-AES Instrument ID: ICAP2 Date: 02/16/2017

Analyte	Wave Length	Al	As	Be	Ca	Cd	Co	Cr	Cu	Fe	Mg	Mn	Mo	Ni	Se
Aluminum	308.215												0.021502		
Antimony	206.833							0.015259		-0.000068					
Arsenic	189.042	-0.000017						-0.016071					-0.005260		
Barium	455.403														
Beryllium	313.042														
Boron	208.959												0.043278		
Cadmium	228.802		0.010934							-0.000006					
Calcium	317.933														
Chromium	267.716									-0.000010		0.000052			
Cobalt	228.616									-0.000003			-0.001257		
Copper	327.396				0.000030					-0.000034					
Iron	259.940														
Lead	220.353	-0.000020							0.000134	0.000031			-0.002133		
Lithium	670.784				0.000078										
Magnesium	279.079											-0.003617			
Manganese	257.610	0.000007								0.000008					
Molybdenum	202.030														
Nickel	231.604									0.000018					
Potassium	766.490														
Selenium	196.090	-0.000180										0.000419			
Silicon	288.158							-0.000713							
Silver	328.068											0.000149			
Sodium	589.592														
Strontium	407.771														
Sulfur	182.034	-0.000327			-0.000197										
Thallium	190.856						0.001873					0.000754			
Tin	189.989														
Titanium	334.904				0.000010			0.000294					0.000785		
Vanadium	292.402									0.000020		0.000057	-0.009464		
Zinc	206.200							-0.000300							

X-IN

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: TestAmerica Buffalo Job Number: 480-121321-1

SDG No.:

ICP-AES Instrument ID: ICAP2 Date: 02/16/2017

Analyte	Wave Length	Si	Sn	Ti	Tl	V									
Aluminum	308.215														
Antimony	206.833														
Arsenic	189.042														
Barium	455.403														
Beryllium	313.042			-0.00065367											
Boron	208.959														
Cadmium	228.802														
Calcium	317.933														
Chromium	267.716														
Cobalt	228.616			0.002032											
Copper	327.396			-0.00018661											
Iron	259.940														
Lead	220.353			-0.00070612											
Lithium	670.784														
Magnesium	279.079														
Manganese	257.610					00080073									
Molybdenum	202.030														
Nickel	231.604														
Potassium	766.490														
Selenium	196.090														
Silicon	288.158														
Silver	328.068														
Sodium	589.592														
Strontium	407.771														
Sulfur	182.034														
Thallium	190.856					-0.006240									
Tin	189.989			-0.00012256											

X-IN

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: TestAmerica Buffalo Job Number: 480-121321-1

SDG No.:

ICP-AES Instrument ID: ICAP2 Date: 02/16/2017

Analyte	Wave Length	Si	Sn	Ti	Tl	V									
Titanium	334.904														
Vanadium	292.402			0.000751											
Zinc	206.200														

11-IN
LINEAR RANGES
METALS

Lab Name: TestAmerica Buffalo Job No: 480-121321-1

SDG No.:

Instrument ID: ICAP2 Date: 02/16/2017 09:13

Analyte	Integ. Time (Sec.)	Concentration (mg/L)	Method
Aluminum	15	600	6010C
Antimony	15	10	6010C
Arsenic	15	5	6010C
Barium	15	10	6010C
Beryllium	15	25	6010C
Cadmium	15	5	6010C
Calcium	15	1000	6010C
Chromium	15	10	6010C
Cobalt	15	20	6010C
Copper	15	25	6010C
Iron	15	600	6010C
Lead	15	120	6010C
Magnesium	15	500	6010C
Manganese	15	50	6010C
Nickel	15	10	6010C
Potassium	15	600	6010C
Selenium	15	60	6010C
Silver	15	3	6010C
Sodium	15	5000	6010C
Thallium	15	20	6010C
Vanadium	15	5	6010C
Zinc	15	20	6010C

11-IN
LINEAR RANGES
METALS

Lab Name: TestAmerica Buffalo Job No: 480-121321-1

SDG No.:

Instrument ID: LEEMAN2 Date: 10/13/2015 15:08

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	Method
Mercury	10	10	7471B

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1

SDG No.:

Prep Method: 3050B

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight (g)	Initial Volume	Final Volume (mL)
MB 480-368424/1-A	07/24/2017 17:04	368424	+0.5434		50
LCSSRM 480-368424/2-A	07/24/2017 17:04	368424	+0.4917		50
480-121321-1	07/24/2017 17:04	368424	+0.5606		50
480-121321-2	07/24/2017 17:04	368424	+0.5370		50
480-121321-3	07/24/2017 17:04	368424	+0.5209		50
480-121321-4	07/24/2017 17:04	368424	+0.5119		50
480-121321-4 MS	07/24/2017 17:04	368424	+0.5089		50
480-121321-4 MSD	07/24/2017 17:04	368424	+0.5229		50
480-121321-5	07/24/2017 17:04	368424	+0.5136		50
480-121321-6	07/24/2017 17:04	368424	+0.5496		50

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1

SDG No.:

Prep Method: 7471B

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight (g)	Initial Volume	Final Volume (mL)
MB 480-368382/1-A	07/24/2017 12:35	368382	+0.6137		50
LCSSRM 480-368382/2-A ^10	07/24/2017 12:35	368382	+0.1599		50
LCDSRM 480-368382/3-A ^10	07/24/2017 12:35	368382	+0.1601		50
480-121321-1	07/24/2017 12:35	368382	+0.5878		50
480-121321-2	07/24/2017 12:35	368382	+0.5996		50
480-121321-3	07/24/2017 12:35	368382	+0.5805		50
480-121321-4	07/24/2017 12:35	368382	+0.5983		50
480-121321-4 MS	07/24/2017 12:35	368382	+0.5884		50
480-121321-4 MSD	07/24/2017 12:35	368382	+0.6066		50
480-121321-5	07/24/2017 12:35	368382	+0.6098		50
480-121321-6	07/24/2017 12:35	368382	+0.6093		50

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1

SDG No.:

Instrument ID: ICAP2 Method: 6010C

Start Date: 07/25/2017 10:55 End Date: 07/25/2017 16:21

Lab Sample ID	D/F	Type	Time	Analytes																			
				Ag	Al	As	Ba	Be	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Na	Ni	Pb	Sb	Se	Tl
ICIS 480-368738/1	1		10:55	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
IC 480-368738/2			10:58	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
IC 480-368738/3			11:02	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
IC 480-368738/4			11:05	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICV 480-368738/5	1		11:08	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICB 480-368738/6	1		11:11	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICVL 480-368738/7	1		11:15	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICSA 480-368738/8	1		11:18	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICSAB 480-368738/9	1		11:22	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ZZZZZZ			11:25																				
ZZZZZZ			11:29																				
ZZZZZZ			11:32																				
ZZZZZZ			11:38																				
ZZZZZZ			11:42																				
CCV 480-368738/15			11:45																				
CCB 480-368738/16			11:49																				
CCV 480-368738/17	1		14:45	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB 480-368738/18	1		14:49	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCVL 480-368738/19	1		14:52	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
MB 480-368424/1-A	1	T	14:59	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
LCSSRM 480-368424/2-A	1	T	15:02	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ZZZZZZ			15:06																				
480-121321-1	1	T	15:09	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
480-121321-2	1	T	15:13	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
480-121321-3	1	T	15:16	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
480-121321-4	1	T	15:19	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
480-121321-4 SD	5	T	15:23	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCV 480-368738/28	1		15:26	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB 480-368738/29	1		15:29	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCVL 480-368738/30	1		15:33	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
480-121321-4 PDS	1	T	15:36	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
480-121321-4 MS	1	T	15:40	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
480-121321-4 MSD	1	T	15:43	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
480-121321-5	1	T	15:46	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
480-121321-6	1	T	15:50	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ZZZZZZ			15:53																				
ZZZZZZ			15:57																				
ZZZZZZ			16:00																				
ZZZZZZ			16:03																				
CCV 480-368738/40	1		16:12	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB 480-368738/41	1		16:15	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCVL 480-368738/42	1		16:21	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1

SDG No.:

Instrument ID: ICAP2 Method: 6010C

Start Date: 07/25/2017 10:55 End Date: 07/25/2017 16:21

Lab Sample ID	D / F	Type	Time	Analytes																			
				V	Zn																		
ICIS 480-368738/1	1		10:55	X	X																		
IC 480-368738/2			10:58	X	X																		
IC 480-368738/3			11:02	X	X																		
IC 480-368738/4			11:05	X	X																		
ICV 480-368738/5	1		11:08	X	X																		
ICB 480-368738/6	1		11:11	X	X																		
ICVL 480-368738/7	1		11:15	X	X																		
ICSA 480-368738/8	1		11:18	X	X																		
ICSAB 480-368738/9	1		11:22	X	X																		
ZZZZZZ			11:25																				
ZZZZZZ			11:29																				
ZZZZZZ			11:32																				
ZZZZZZ			11:38																				
ZZZZZZ			11:42																				
CCV 480-368738/15			11:45																				
CCB 480-368738/16			11:49																				
CCV 480-368738/17	1		14:45	X	X																		
CCB 480-368738/18	1		14:49	X	X																		
CCVL 480-368738/19	1		14:52	X	X																		
MB 480-368424/1-A	1	T	14:59	X	X																		
LCSSRM 480-368424/2-A	1	T	15:02	X	X																		
ZZZZZZ			15:06																				
480-121321-1	1	T	15:09	X	X																		
480-121321-2	1	T	15:13	X	X																		
480-121321-3	1	T	15:16	X	X																		
480-121321-4	1	T	15:19	X	X																		
480-121321-4 SD	5	T	15:23	X	X																		
CCV 480-368738/28	1		15:26	X	X																		
CCB 480-368738/29	1		15:29	X	X																		
CCVL 480-368738/30	1		15:33	X	X																		
480-121321-4 PDS	1	T	15:36	X	X																		
480-121321-4 MS	1	T	15:40	X	X																		
480-121321-4 MSD	1	T	15:43	X	X																		
480-121321-5	1	T	15:46	X	X																		
480-121321-6	1	T	15:50	X	X																		
ZZZZZZ			15:53																				
ZZZZZZ			15:57																				
ZZZZZZ			16:00																				
ZZZZZZ			16:03																				
CCV 480-368738/40	1		16:12	X	X																		
CCB 480-368738/41	1		16:15	X	X																		
CCVL 480-368738/42	1		16:21	X	X																		

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1

SDG No.:

Instrument ID: ICAP2 Method: 6010C

Start Date: 07/25/2017 10:55 End Date: 07/25/2017 16:21

Prep Types
T = Total/NA

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1

SDG No.:

Instrument ID: LEEMAN2 Method: 7471B

Start Date: 07/24/2017 14:38 End Date: 07/24/2017 15:37

Lab Sample ID	D/F	Type	Time	Analytes																			
				Hg																			
ICV 480-368435/1	1		14:38	X																			
ICB 480-368435/2	1		14:40	X																			
ICVL 480-368435/3	1		14:42	X																			
CCV 480-368435/4	1		14:43	X																			
CCB 480-368435/5	1		14:45	X																			
MB 480-368382/1-A	1	T	14:47	X																			
LCSSRM 480-368382/2-A ^10	10	T	14:48	X																			
LCDSRM 480-368382/3-A ^10	10	T	14:50	X																			
480-121321-1	1	T	14:52	X																			
480-121321-2	1	T	14:53	X																			
480-121321-3	1	T	14:54	X																			
480-121321-4	1	T	14:56	X																			
480-121321-4 SD	5	T	14:57	X																			
480-121321-4 MS	1	T	14:59	X																			
480-121321-4 MSD	1	T	15:01	X																			
CCV 480-368435/16	1		15:02	X																			
CCB 480-368435/17	1		15:04	X																			
480-121321-5	1	T	15:06	X																			
480-121321-6	1	T	15:07	X																			
ZZZZZZ			15:09																				
ZZZZZZ			15:11																				
ZZZZZZ			15:12																				
ZZZZZZ			15:14																				
ZZZZZZ			15:15																				
ZZZZZZ			15:16																				
ZZZZZZ			15:18																				
ZZZZZZ			15:20																				
CCV 480-368435/28	1		15:21	X																			
CCB 480-368435/29	1		15:23	X																			
ZZZZZZ			15:25																				
ZZZZZZ			15:26																				
ZZZZZZ			15:28																				
ZZZZZZ			15:29																				
ZZZZZZ			15:32																				
CCV 480-368435/35			15:34																				
CCB 480-368435/36			15:35																				
CCVL 480-368435/37	1		15:37	X																			

Prep Types

T = Total/NA

Run File: I2072517A

Instrument: ICAP2

Analyst: JRK JR 7/26/17

Data Review: 7/26/17

Spikes Ids: 4027863(W1), 3903387(W2), 4076679(Sn), 4076667(Ag), 3900427(Si), 3885452(TCLP)

Pipette IDs: 06/16/17-(1-9, 11)
Internal Standard: 4147891

Seq#	Run File ID	Sample ID	Date / Time	Type
1	I2072517A	ICIS-4130963	07/25/17 10:55 AM	Standard
2	I2072517A	IC-4130962	07/25/17 10:58 AM	Standard
3	I2072517A	IC-4121446	07/25/17 11:02 AM	Standard
4	I2072517A	IC-4121445	07/25/17 11:05 AM	Standard
5	I2072517A	ICV-4147886	07/25/17 11:08 AM	QC
6	I2072517A	ICB-4130963	07/25/17 11:11 AM	QC
7	I2072517A	ICVL-4147888	07/25/17 11:15 AM	QC
8	I2072517A	ICSA-4090634	07/25/17 11:18 AM	QC
9	I2072517A	ICSAB-4093406	07/25/17 11:22 AM	QC
10	I2072517A	ICEX1	07/25/17 11:25 AM	Unknown
11	I2072517A	ICEX2	07/25/17 11:29 AM	Unknown
12	I2072517A	ICEX3	07/25/17 11:32 AM	Unknown
13	I2072517A	ICEX4	07/25/17 11:38 AM	Unknown
14	I2072517A	ICEX5	07/25/17 11:42 AM	Unknown
15	I2072517A	CCV-4147885	07/25/17 11:45 AM	QC
16	I2072517A	CCB-4130963	07/25/17 11:49 AM	QC
17	I2072517A	CCVL-4147888	07/25/17 12:00 PM	QC
18	I2072517A	480-121460-a-1-a	07/25/17 12:03 PM	Unknown
19	I2072517A	480-121460-a-1-aSD@5	07/25/17 12:07 PM	Unknown
20	I2072517A	480-121460-a-1-a PDS	07/25/17 12:10 PM	Unknown
21	I2072517A	480-121460-a-1-b ms	07/25/17 12:13 PM	Unknown
22	I2072517A	480-121460-a-1-c msd	07/25/17 12:17 PM	Unknown
23	I2072517A	480-121460-a-2-a	07/25/17 12:20 PM	Unknown
24	I2072517A	480-121460-a-3-a	07/25/17 12:24 PM	Unknown
25	I2072517A	BLANK	07/25/17 12:27 PM	Unknown
26	I2072517A	BLANK	07/25/17 12:31 PM	Unknown
27	I2072517A	CCV-4147885	07/25/17 12:34 PM	QC
28	I2072517A	CCB-4130963	07/25/17 12:38 PM	QC
29	I2072517A	CCVL-4147888	07/25/17 12:41 PM	QC
30	I2072517A	480-121453-m-1-a@5	07/25/17 12:44 PM	Unknown
31	I2072517A	480-121453-m-2-a@5	07/25/17 12:48 PM	Unknown
32	I2072517A	480-121453-m-2-a@10	07/25/17 12:52 PM	Unknown
33	I2072517A	480-121274-c-1-b	07/25/17 12:55 PM	Unknown
34	I2072517A	blank	07/25/17 12:59 PM	Unknown
35	I2072517A	480-121453-m-1-a@10	07/25/17 01:08 PM	Unknown
36	I2072517A	480-121453-m-2-a@100	07/25/17 01:12 PM	Unknown
37	I2072517A	LB 480-367816/1-D	07/25/17 01:15 PM	Unknown
38	I2072517A	MB 480-368495/2-A	07/25/17 01:19 PM	Unknown
39	I2072517A	CCV-4147885	07/25/17 01:22 PM	QC
40	I2072517A	CCB-4130963	07/25/17 01:26 PM	QC
41	I2072517A	CCVL-4147888	07/25/17 01:29 PM	QC
42	I2072517A	LCS 480-368495/3-A	07/25/17 01:33 PM	Unknown

43	I2072517A	LCSD 480-368495/4-A	07/25/17 01:36 PM Unknown
44	I2072517A	480-121254-A-1-D	07/25/17 01:39 PM Unknown
45	I2072517A	480-121254-A-1-D@10	07/25/17 01:43 PM Unknown
46	I2072517A	480-121254-A-2-D	07/25/17 01:46 PM Unknown
47	I2072517A	480-121254-A-2-D@10	07/25/17 01:50 PM Unknown
48	I2072517A	480-121348-A-1-D	07/25/17 01:53 PM Unknown
49	I2072517A	480-121348-A-1-D@20	07/25/17 01:57 PM Unknown
50	I2072517A	480-121348-A-1-D@100	07/25/17 02:01 PM Unknown
51	I2072517A	CCV-4147885	07/25/17 02:04 PM QC
52	I2072517A	CCB-4130963	07/25/17 02:07 PM QC
53	I2072517A	CCVL-4147888	07/25/17 02:11 PM QC
54	I2072517A	480-121332-A-1-L	07/25/17 02:14 PM Unknown
55	I2072517A	480-121332-A-1-Lsd@5	07/25/17 02:18 PM Unknown
56	I2072517A	480-121332-A-1-L pds	07/25/17 02:21 PM Unknown
57	I2072517A	LB 480-367814/1-F	07/25/17 02:25 PM Unknown
58	I2072517A	MB 480-368493/2-A	07/25/17 02:28 PM Unknown
59	I2072517A	LCS 480-368493/3-A	07/25/17 02:32 PM Unknown
60	I2072517A	LCSD 480-368493/4-A	07/25/17 02:35 PM Unknown
61	I2072517A	480-121246-A-1-K	07/25/17 02:38 PM Unknown
62	I2072517A	480-121246-A-1-Ksd@5	07/25/17 02:42 PM Unknown
63	I2072517A	CCV-4147885	07/25/17 02:45 PM QC
64	I2072517A	CCB-4130963	07/25/17 02:49 PM QC
65	I2072517A	CCVL-4147888	07/25/17 02:52 PM QC
66	I2072517A	480-121246-A-1-K	07/25/17 02:56 PM Unknown
67	I2072517A	MB 480-368424/1-A	07/25/17 02:59 PM Unknown
68	I2072517A	LCSSRM 480-368424/2-	07/25/17 03:02 PM Unknown
69	I2072517A	480-121420-D-1-B	07/25/17 03:06 PM Unknown
70	I2072517A	480-121321-B-1-C	07/25/17 03:09 PM Unknown
71	I2072517A	480-121321-A-2-E	07/25/17 03:13 PM Unknown
72	I2072517A	480-121321-A-3-E	07/25/17 03:16 PM Unknown
73	I2072517A	480-121321-A-4-I	07/25/17 03:19 PM Unknown
74	I2072517A	480-121321-A-4-Isd@5	07/25/17 03:23 PM Unknown
75	I2072517A	CCV-4147885	07/25/17 03:26 PM QC
76	I2072517A	CCB-4130963	07/25/17 03:29 PM QC
77	I2072517A	CCVL-4147888	07/25/17 03:33 PM QC
78	I2072517A	480-121321-A-4-I pds	07/25/17 03:36 PM Unknown
79	I2072517A	480-121321-B-4-H MS	07/25/17 03:40 PM Unknown
80	I2072517A	480-121321-B-4-I MSD	07/25/17 03:43 PM Unknown
81	I2072517A	480-121321-B-5-D	07/25/17 03:46 PM Unknown
82	I2072517A	480-121321-B-6-D	07/25/17 03:50 PM Unknown
83	I2072517A	480-121419-C-1-B	07/25/17 03:53 PM Unknown
84	I2072517A	480-121419-C-2-B	07/25/17 03:57 PM Unknown
85	I2072517A	480-121419-C-3-B	07/25/17 04:00 PM Unknown
86	I2072517A	480-121419-D-4-B	07/25/17 04:03 PM Unknown
87	I2072517A	ccv-4147885	07/25/17 04:12 PM QC
88	I2072517A	ccb-4130963	07/25/17 04:15 PM QC
89	I2072517A	CCVL-4147888	07/25/17 04:21 PM QC
90	I2072517A	mb 480-368532/1-a	07/25/17 04:25 PM Unknown
91	I2072517A	lcs 480-368532/2-a	07/25/17 04:28 PM Unknown
92	I2072517A	480-121296-d-1-a	07/25/17 04:31 PM Unknown
93	I2072517A	480-121296-d-1-aSD@5	07/25/17 04:35 PM Unknown
94	I2072517A	480-121296-d-1-a PDS	07/25/17 04:38 PM Unknown

95	I2072517A	480-121296-d-1-b ms	07/25/17 04:41 PM Unknown
96	I2072517A	480-121296-d-1-c msd	07/25/17 04:45 PM Unknown
97	I2072517A	BLANK	07/25/17 04:48 PM Unknown
98	I2072517A	mb 480-368485/1-a	07/25/17 04:51 PM Unknown
99	I2072517A	CCV-4147885	07/25/17 04:55 PM QC
100	I2072517A	CCB-4130963	07/25/17 04:58 PM QC
101	I2072517A	CCVL-4147888	07/25/17 05:02 PM QC
102	I2072517A	lcs 480-368485/2-a	07/25/17 05:05 PM Unknown
103	I2072517A	480-121468-b-1-a	07/25/17 05:08 PM Unknown
104	I2072517A	480-121468-b-1-aSD@5	07/25/17 05:12 PM Unknown
105	I2072517A	480-121468-b-1-a PDS	07/25/17 05:15 PM Unknown
106	I2072517A	480-121468-b-1-b ms	07/25/17 05:18 PM Unknown
107	I2072517A	480-121468-b-1-c msd	07/25/17 05:22 PM Unknown
108	I2072517A	480-121514-d-1-a	07/25/17 05:25 PM Unknown
109	I2072517A	480-121514-d-4-a	07/25/17 05:28 PM Unknown
110	I2072517A	480-121514-d-6-a	07/25/17 05:32 PM Unknown
111	I2072517A	CCV-4147885	07/25/17 05:35 PM QC
112	I2072517A	CCB-4130963	07/25/17 05:38 PM QC
113	I2072517A	CCVL-4147888	07/25/17 05:42 PM QC
114	I2072517A	480-121514-d-7-a	07/25/17 05:45 PM Unknown
115	I2072517A	480-121557-a-2-a	07/25/17 05:49 PM Unknown
116	I2072517A	480-121557-b-3-a	07/25/17 05:52 PM Unknown
117	I2072517A	480-121464-b-1-a	07/25/17 05:56 PM Unknown
118	I2072517A	480-121464-b-2-a	07/25/17 05:59 PM Unknown
119	I2072517A	480-121464-b-3-a	07/25/17 06:02 PM Unknown
120	I2072517A	480-121464-b-4-a	07/25/17 06:06 PM Unknown
121	I2072517A	480-121464-b-5-a	07/25/17 06:09 PM Unknown
122	I2072517A	480-121464-b-6-a	07/25/17 06:13 PM Unknown
123	I2072517A	CCV-4147885	07/25/17 06:16 PM QC
124	I2072517A	CCB-4130963	07/25/17 06:19 PM QC
125	I2072517A	CCVL-4147888	07/25/17 06:23 PM QC
126	I2072517A	480-121464-b-7-a	07/25/17 06:26 PM Unknown
127	I2072517A	480-121464-b-8-a	07/25/17 06:30 PM Unknown
128	I2072517A	480-121464-b-9-a	07/25/17 06:33 PM Unknown
129	I2072517A	480-121464-b-10-a	07/25/17 06:36 PM Unknown
130	I2072517A	480-121464-b-11-a	07/25/17 06:40 PM Unknown
131	I2072517A	480-121464-b-12-a	07/25/17 06:43 PM Unknown
132	I2072517A	480-121464-b-13-a	07/25/17 06:47 PM Unknown
133	I2072517A	lcsd 480-368485/25-a	07/25/17 06:50 PM Unknown
134	I2072517A	BLANK	07/25/17 06:53 PM Unknown
135	I2072517A	CCV-4147885	07/25/17 06:57 PM QC
136	I2072517A	CCB-4130963	07/25/17 07:00 PM QC
137	I2072517A	CCVL-4147888	07/25/17 07:03 PM QC
138	I2072517A	mb 480-368490/1-a	07/25/17 07:07 PM Unknown
139	I2072517A	lcs 480-368490/2-a	07/25/17 07:10 PM Unknown
140	I2072517A	480-120292-h-6-d	07/25/17 07:14 PM Unknown
141	I2072517A	480-120292-h-6-dSD@5	07/25/17 07:17 PM Unknown
142	I2072517A	480-120292-h-6-d PDS	07/25/17 07:21 PM Unknown
143	I2072517A	480-120292-h-6-e ms	07/25/17 07:24 PM Unknown
144	I2072517A	480-120292-h-6-f msd	07/25/17 07:28 PM Unknown
145	I2072517A	480-121507-c-1-a	07/25/17 07:31 PM Unknown
146	I2072517A	480-121415-b-1-a	07/25/17 07:35 PM Unknown

147	I2072517A	CCV-4147885	07/25/17 07:38 PM QC
148	I2072517A	CCB-4130963	07/25/17 07:41 PM QC
149	I2072517A	CCVL-4147888	07/25/17 07:45 PM QC
150	I2072517A	480-121415-b-2-a	07/25/17 07:48 PM Unknown
151	I2072517A	480-121415-b-3-a	07/25/17 07:52 PM Unknown
152	I2072517A	480-121415-b-4-a	07/25/17 07:55 PM Unknown
153	I2072517A	480-121415-b-5-a	07/25/17 07:58 PM Unknown
154	I2072517A	480-121482-e-1-a	07/25/17 08:02 PM Unknown
155	I2072517A	480-121485-f-1-a	07/25/17 08:05 PM Unknown
156	I2072517A	480-121361-a-2-b	07/25/17 08:09 PM Unknown
157	I2072517A	480-121361-a-2-c ms	07/25/17 08:12 PM Unknown
158	I2072517A	480-121361-a-2-d msd	07/25/17 08:16 PM Unknown
159	I2072517A	CCV-4147885	07/25/17 08:20 PM QC
160	I2072517A	CCB-4130963	07/25/17 08:23 PM QC
161	I2072517A	CCVL-4147888	07/25/17 08:27 PM QC
162	I2072517A	480-121439-k-1-d	07/25/17 08:30 PM Unknown
163	I2072517A	480-121440-k-1-b	07/25/17 08:34 PM Unknown
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165	I2072517A	480-121440-k-3-b	07/25/17 08:41 PM Unknown
166	I2072517A	480-121340-a-1-b	07/25/17 08:44 PM Unknown
167	I2072517A	480-121369-b-1-a	07/25/17 08:48 PM Unknown
168	I2072517A	480-121403-c-1-a	07/25/17 08:51 PM Unknown
169	I2072517A	BLANK	07/25/17 08:55 PM Unknown
170	I2072517A	mb 480-368491/1-a	07/25/17 08:58 PM Unknown
171	I2072517A	CCV-4147885	07/25/17 09:02 PM QC
172	I2072517A	CCB-4130963	07/25/17 09:05 PM QC
173	I2072517A	CCVL-4147888	07/25/17 09:08 PM QC
174	I2072517A	lcs 480-368491/2-a	07/25/17 09:12 PM Unknown
175	I2072517A	480-121551-c-1-a	07/25/17 09:15 PM Unknown
176	I2072517A	480-121551-c-1-aSD@5	07/25/17 09:19 PM Unknown
177	I2072517A	480-121551-c-1-a PDS	07/25/17 09:22 PM Unknown
178	I2072517A	480-121551-c-1-b ms	07/25/17 09:26 PM Unknown
179	I2072517A	480-121551-c-1-c msd	07/25/17 09:29 PM Unknown
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181	I2072517A	480-121551-c-3-a	07/25/17 09:36 PM Unknown
182	I2072517A	480-121551-c-4-a	07/25/17 09:39 PM Unknown
183	I2072517A	CCV-4147885	07/25/17 09:43 PM QC
184	I2072517A	CCB-4130963	07/25/17 09:46 PM QC
185	I2072517A	CCVL-4147888	07/25/17 09:50 PM QC
186	I2072517A	480-121551-c-5-a	07/25/17 09:53 PM Unknown
187	I2072517A	480-121295-c-1-a	07/25/17 09:57 PM Unknown
188	I2072517A	480-121295-c-2-a	07/25/17 10:00 PM Unknown
189	I2072517A	480-121295-c-3-a	07/25/17 10:04 PM Unknown
190	I2072517A	480-121295-c-4-a	07/25/17 10:07 PM Unknown
191	I2072517A	480-121295-c-5-a	07/25/17 10:10 PM Unknown
192	I2072517A	480-121295-c-6-a	07/25/17 10:14 PM Unknown
193	I2072517A	480-121386-a-2-b	07/25/17 10:17 PM Unknown
194	I2072517A	480-121370-f-8-c	07/25/17 10:21 PM Unknown
195	I2072517A	CCV-4147885	07/25/17 10:24 PM QC
196	I2072517A	CCB-4130963	07/25/17 10:28 PM QC
197	I2072517A	CCVL-4147888	07/25/17 10:31 PM QC
198	I2072517A	mb 480-368427/1-a	07/25/17 10:35 PM Unknown

199	I2072517A	lcssrm 480-368427/2-	07/25/17 10:38 PM Unknown
200	I2072517A	480-121394-a-1-b	07/25/17 10:41 PM Unknown
201	I2072517A	480-121394-a-2-b	07/25/17 10:45 PM Unknown
202	I2072517A	480-121394-a-2-bSD@5	07/25/17 10:48 PM Unknown
203	I2072517A	480-121394-a-2-b PDS	07/25/17 10:51 PM Unknown
204	I2072517A	480-121394-a-2-c ms	07/25/17 10:55 PM Unknown
205	I2072517A	480-121394-a-2-d msd	07/25/17 10:58 PM Unknown
206	I2072517A	480-121394-a-3-b	07/25/17 11:01 PM Unknown
207	I2072517A	CCV-4147885	07/25/17 11:05 PM QC
208	I2072517A	CCB-4130963	07/25/17 11:08 PM QC
209	I2072517A	CCVL-4147888	07/25/17 11:11 PM QC
210	I2072517A	480-121394-a-4-b	07/25/17 11:15 PM Unknown
211	I2072517A	480-121394-a-5-a	07/25/17 11:18 PM Unknown
212	I2072517A	480-121394-a-6-a	07/25/17 11:22 PM Unknown
213	I2072517A	480-121394-a-7-a	07/25/17 11:25 PM Unknown
214	I2072517A	480-121394-a-8-b	07/25/17 11:29 PM Unknown
215	I2072517A	480-121394-a-9-a	07/25/17 11:32 PM Unknown
216	I2072517A	480-121394-a-10-a	07/25/17 11:36 PM Unknown
217	I2072517A	480-121394-a-11-b	07/25/17 11:39 PM Unknown
218	I2072517A	480-121394-c-12-a	07/25/17 11:42 PM Unknown
219	I2072517A	CCV-4147885	07/25/17 11:46 PM QC
220	I2072517A	CCB-4130963	07/25/17 11:49 PM QC
221	I2072517A	CCVL-4147888	07/25/17 11:53 PM QC
222	I2072517A	480-121394-a-13-a	07/25/17 11:56 PM Unknown
223	I2072517A	480-121394-a-14-a	07/26/17 12:00 AM Unknown
224	I2072517A	BLANK	07/26/17 12:03 AM Unknown
225	I2072517A	CCVL-4147888	07/26/17 12:07 AM QC
226	I2072517A	CCV-4147885	07/26/17 12:10 AM QC
227	I2072517A	CCB-4130963	07/26/17 12:13 AM QC

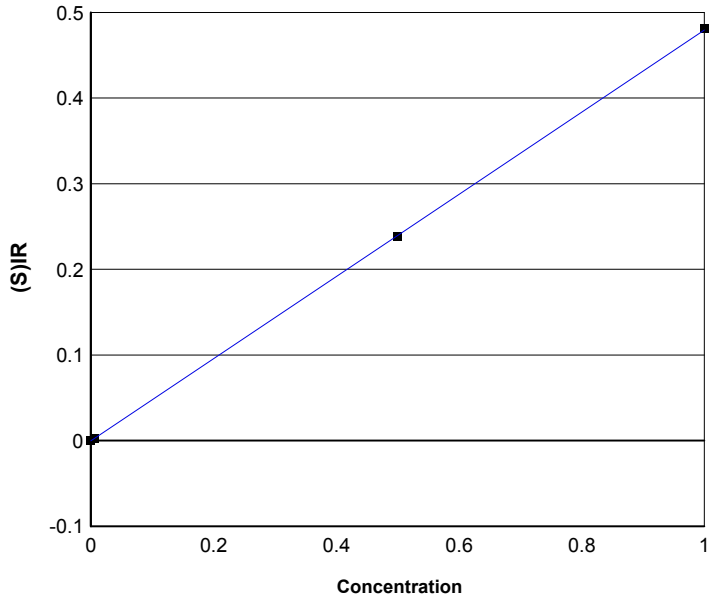
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Author: JRK

Published: 7/26/2017 7:20:23AM

Instrument Name: iCAP2 Serial Number: 20094602

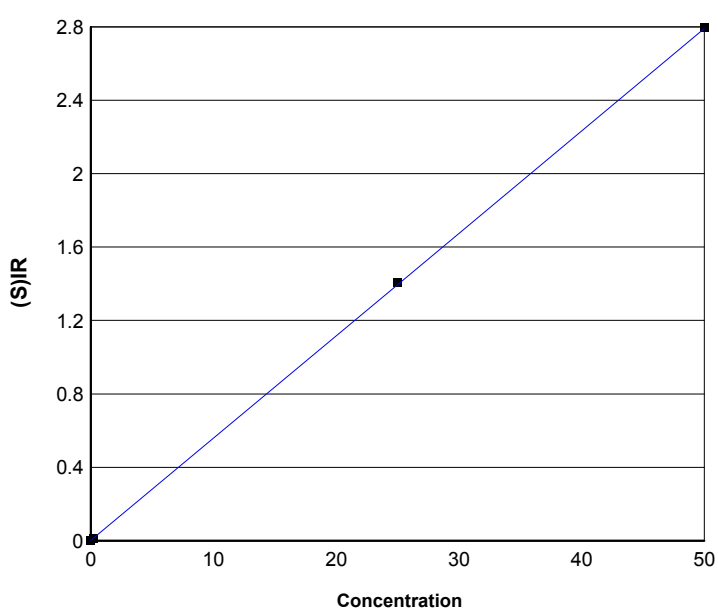
Method Name: ICAP2 June 2017 (59)



Element Name:	Ag
Element Wavelength:	Ag 328.068 nm
Concentration Units:	ppm
Date of Calibration:	7/25/2017 11:08:28AM
Date of Fit:	7/25/2017 11:56:27AM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	-0.00013073
A1 (Gain):	0.47979
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

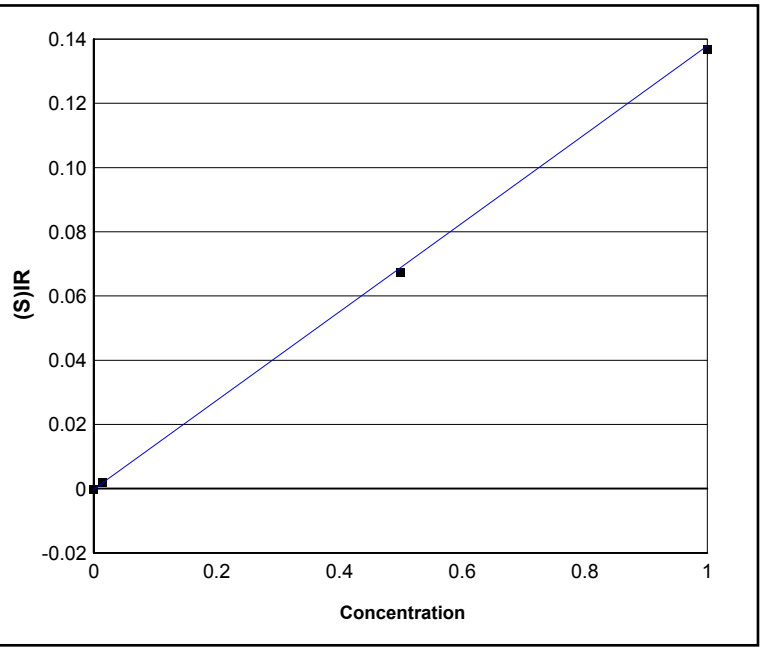
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.00000	0.0000002232	0.0000002232	0.00000	-0.00013062	0.00025410	1
IC-4130962	0.0060000	0.0057965	-0.00020350	-3.3916	0.0026505	0.00018851	1
IC-4121446	0.50000	0.49651	-0.0034906	-0.69811	0.23811	0.00010049	1
IC-4121445	1.0000	1.0037	0.0036941	0.36941	0.48147	0.0022007	1



Element Name:	Al
Element Wavelength:	Al 308.215 nm
Concentration Units:	ppm
Date of Calibration:	7/25/2017 11:08:28AM
Date of Fit:	7/25/2017 11:56:27AM
Type of Fit:	Linear
Correlation:	1.00000
A0 (Offset):	0.0017280
A1 (Gain):	0.055773
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

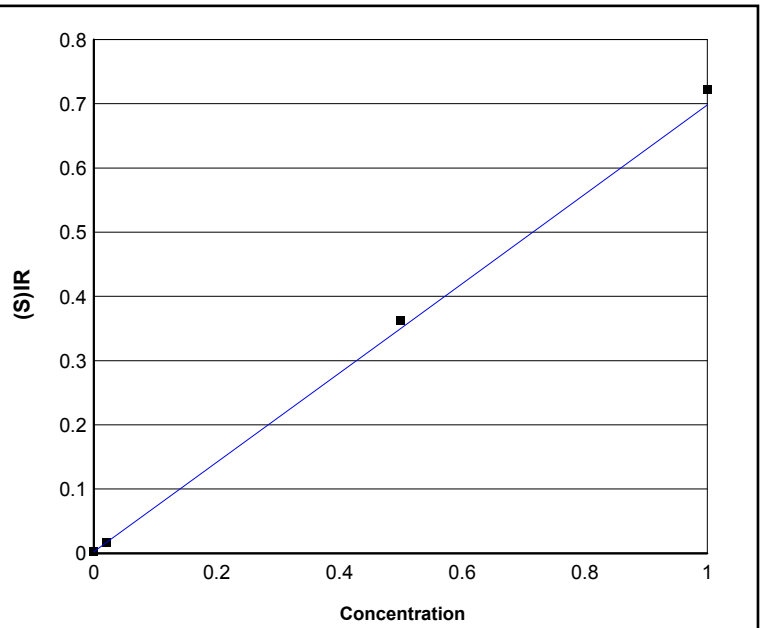
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.00000	0.0000082116	-0.0000082116	0.00000	0.0017276	0.00027839	1
IC-4130962	0.20000	0.20800	0.0080022	4.0011	0.013390	0.00089711	1
IC-4121446	25.000	25.060	0.060362	0.24145	1.4056	0.010440	1
IC-4121445	50.000	49.932	-0.068373	-0.13675	2.7989	0.0066045	1



Element Name:	As
Element Wavelength:	As 189.042 nm
Concentration Units:	ppm
Date of Calibration:	7/25/2017 11:08:28AM
Date of Fit:	7/25/2017 11:56:27AM
Type of Fit:	Linear
Correlation:	0.99997
A0 (Offset):	-0.00012809
A1 (Gain):	0.13805
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

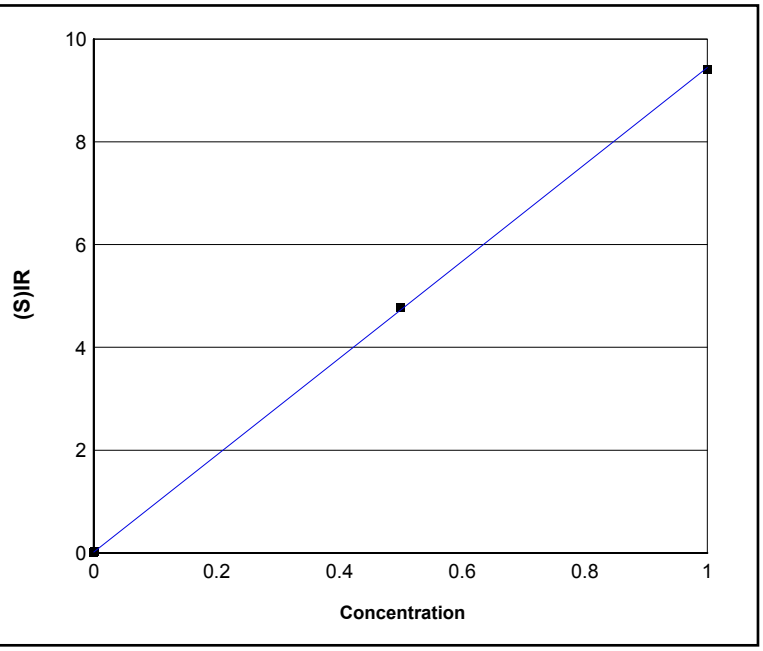
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
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IC-4130962	0.015000	0.015413	0.00041347	2.7565	0.0019931	0.00030182	1
IC-4121446	0.50000	0.49497	-0.0050262	-1.0052	0.067375	0.00030988	1
IC-4121445	1.0000	1.0046	0.0046091	0.46091	0.13690	0.00014356	1



Element Name:	B
Element Wavelength:	B 208.959 nm
Concentration Units:	ppm
Date of Calibration:	7/25/2017 11:08:28AM
Date of Fit:	7/25/2017 11:56:27AM
Type of Fit:	Linear
Correlation:	1.00000
A0 (Offset):	0.0023690
A1 (Gain):	0.69573
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

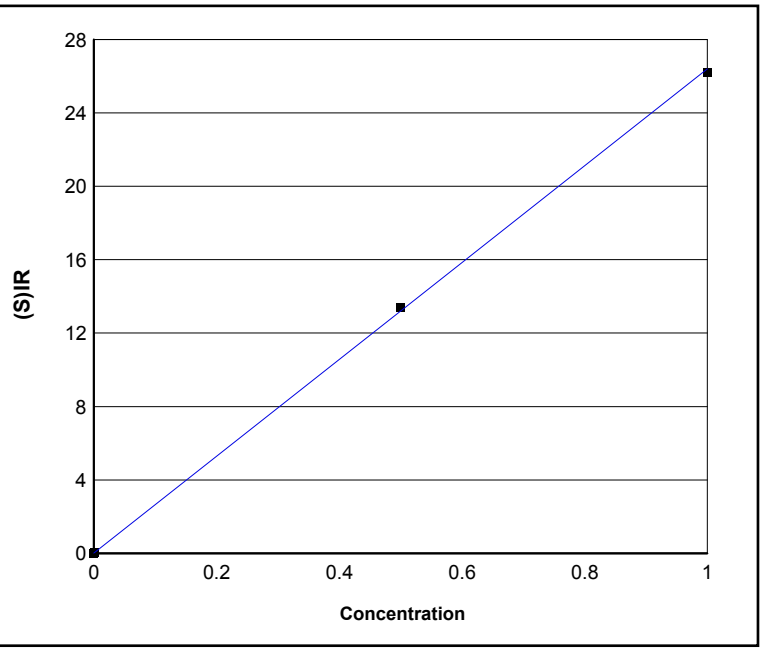
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
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IC-4130962	0.020000	0.019972	-0.000028010	-0.14005	0.016505	0.00019219	1
IC-4121446	0.50000	0.50100	0.00099758	0.19952	0.36296	0.0010733	1
IC-4121445	1.0000	0.99903	-0.00097004	-0.097004	0.72148	0.0013006	1



Element Name:	Ba
Element Wavelength:	Ba 455.403 nm
Concentration Units:	ppm
Date of Calibration:	7/25/2017 11:08:28AM
Date of Fit:	7/25/2017 11:56:27AM
Type of Fit:	Linear
Correlation:	0.99998
A0 (Offset):	0.016155
A1 (Gain):	9.4307
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

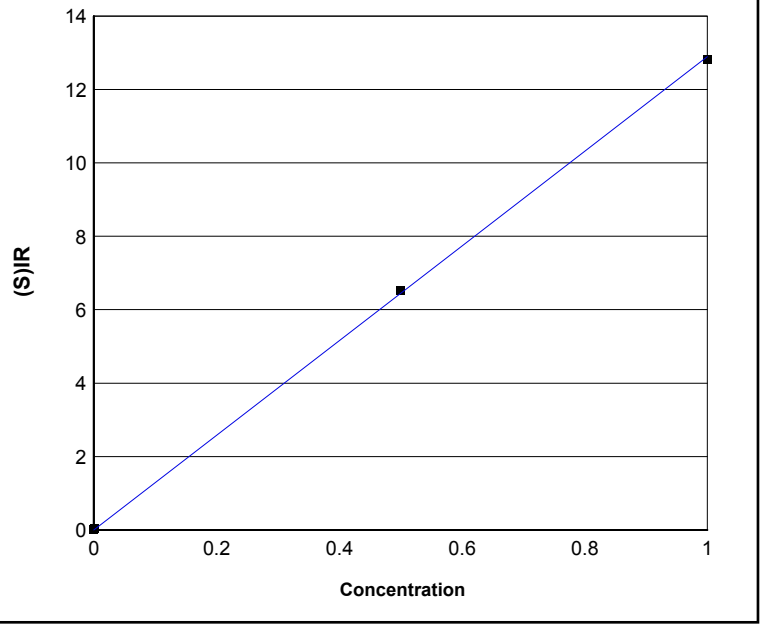
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.00000	0.0000001293	-0.0000001293	0.00000	0.016154	0.0012059	1
IC-4130962	0.0020000	0.0021207	0.00012066	6.0328	0.036154	0.00012379	1
IC-4121446	0.50000	0.50442	0.0044214	0.88428	4.7732	0.034526	1
IC-4121445	1.0000	0.99546	-0.0045421	-0.45421	9.4041	0.028903	1



Element Name:	Ba
Element Wavelength:	Ba 455.403 nm
Concentration Units:	ppm
Date of Calibration:	7/25/2017 11:08:28AM
Date of Fit:	7/25/2017 11:56:27AM
Type of Fit:	Linear
Correlation:	0.99993
A0 (Offset):	0.0066325
A1 (Gain):	26.399
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

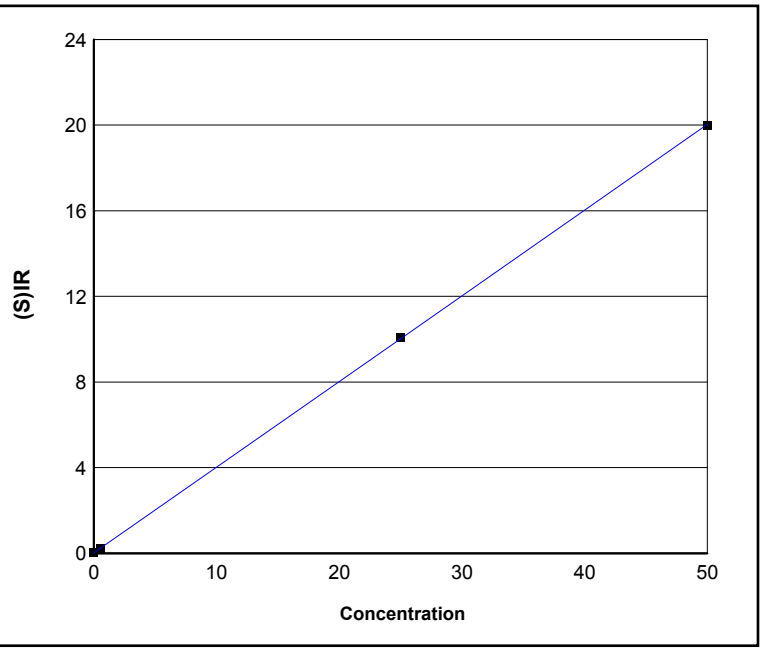
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.00000	0.0000001395	-0.0000001395	0.00000	0.0066288	0.0010953	1
IC-4130962	0.0020000	0.0021239	0.00012389	6.1943	0.062702	0.00041518	1
IC-4121446	0.50000	0.50791	0.0079135	1.5827	13.415	0.015909	1
IC-4121445	1.0000	0.99196	-0.0080374	-0.80374	26.194	0.11603	1



Element Name:	Be
Element Wavelength:	Be 313.042 nm
Concentration Units:	ppm
Date of Calibration:	7/25/2017 11:08:28AM
Date of Fit:	7/25/2017 11:56:27AM
Type of Fit:	Linear
Correlation:	0.99996
A0 (Offset):	0.00042758
A1 (Gain):	12.897
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

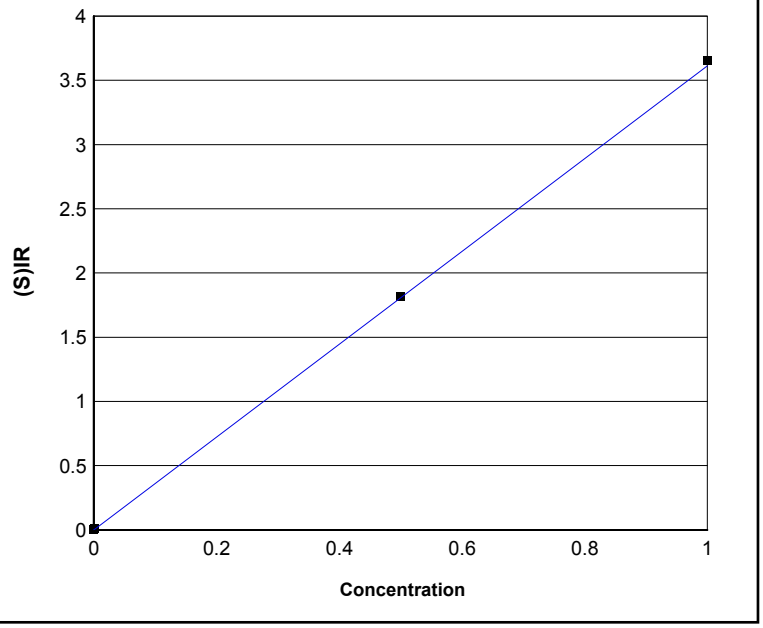
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.00000	0.0000000436	-0.0000000436	0.00000	0.00042702	0.00099365	1
IC-4130962	0.0020000	0.0020311	0.000031073	1.5537	0.026582	0.00069797	1
IC-4121446	0.50000	0.50629	0.0062891	1.2578	6.5261	0.038960	1
IC-4121445	1.0000	0.99368	-0.0063202	-0.63202	12.808	0.043230	1



Element Name:	Ca
Element Wavelength:	Ca 317.933 nm
Concentration Units:	ppm
Date of Calibration:	7/25/2017 11:08:28AM
Date of Fit:	7/25/2017 11:56:27AM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	0.013625
A1 (Gain):	0.40030
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

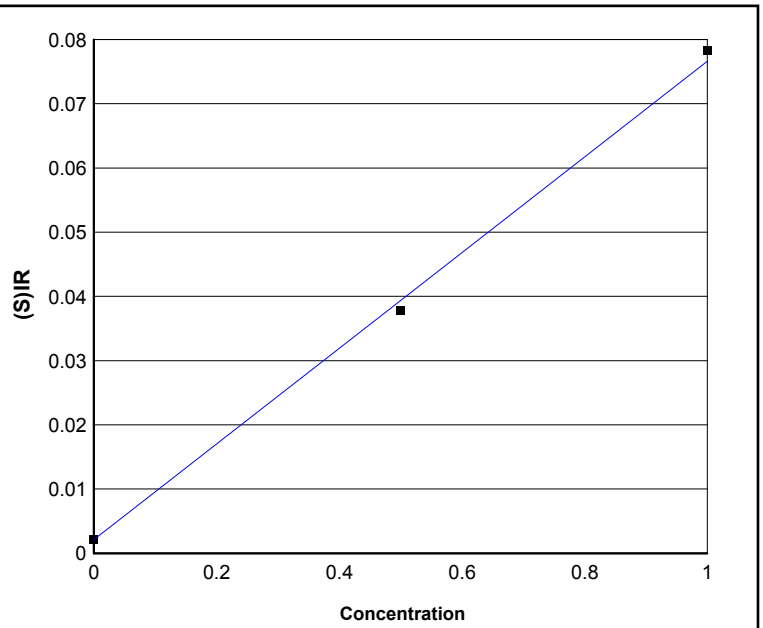
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.00000	0.0000027140	-0.0000027140	0.00000	0.013624	0.0011523	1
IC-4130962	0.50000	0.50116	0.0011593	0.23186	0.21424	0.00098046	1
IC-4121446	25.000	25.157	0.15663	0.62653	10.084	0.044917	1
IC-4121445	50.000	49.842	-0.15779	-0.31558	19.966	0.086630	1



Element Name:	Cd
Element Wavelength:	Cd 228.802 nm
Concentration Units:	ppm
Date of Calibration:	7/25/2017 11:08:28AM
Date of Fit:	7/25/2017 11:56:27AM
Type of Fit:	Linear
Correlation:	1.00000
A0 (Offset):	0.00098657
A1 (Gain):	3.6119
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

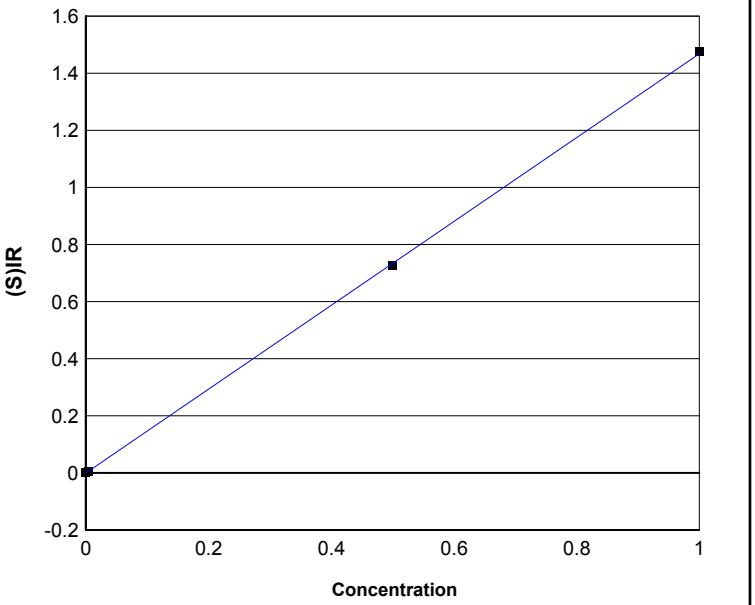
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.00000	0.0000000642	0.0000000642	0.00000	0.00098680	0.00025879	1
IC-4130962	0.0020000	0.0019378	-0.000062156	-3.1078	0.0084854	0.00027262	1
IC-4121446	0.50000	0.49893	-0.0010654	-0.21308	1.8196	0.00076914	1
IC-4121445	1.0000	1.0011	0.0011313	0.11313	3.6501	0.00085330	1



Element Name:	Ce
Element Wavelength:	Ce 404.076 nm
Concentration Units:	ppm
Date of Calibration:	7/25/2017 11:08:28AM
Date of Fit:	7/25/2017 11:56:27AM
Type of Fit:	Linear
Correlation:	0.9995
A0 (Offset):	0.002139
A1 (Gain):	0.07450
A2 (Curvature):	0.0000
n (Exponent):	1.000

Reslope		QC Normalize	
Slope:	1.000	**Slope factor:**	1.000
Y Int:	0.0000	**Offset:**	0.0000

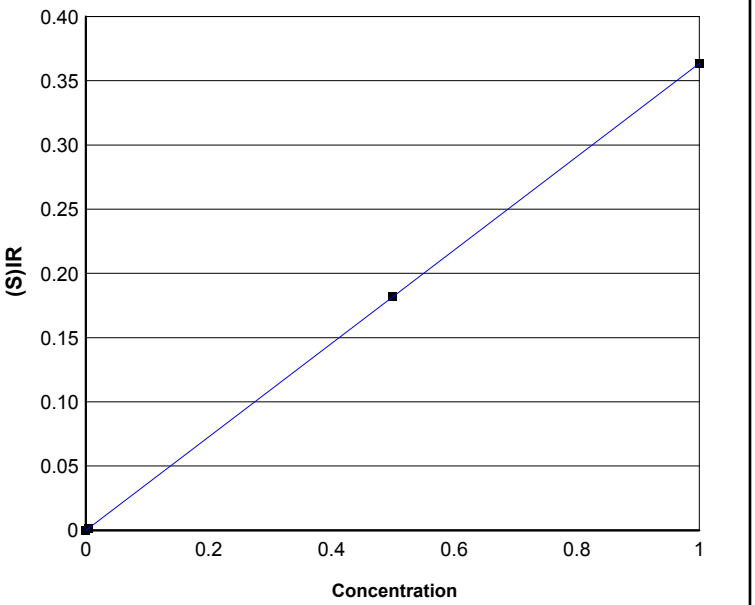
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.0000	0.00001069	0.00001069	0.0000	0.002140	0.001589	1
IC-4121446	0.5000	0.4786	-0.02137	-4.275	0.03780	0.0008755	1
IC-4121445	1.000	1.021	0.02137	2.137	0.07823	0.001723	1



Element Name:	Co
Element Wavelength:	Co 228.616 nm
Concentration Units:	ppm
Date of Calibration:	7/25/2017 11:08:28AM
Date of Fit:	7/25/2017 11:56:27AM
Type of Fit:	Linear
Correlation:	0.99997
A0 (Offset):	-0.000094158
A1 (Gain):	1.4685
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

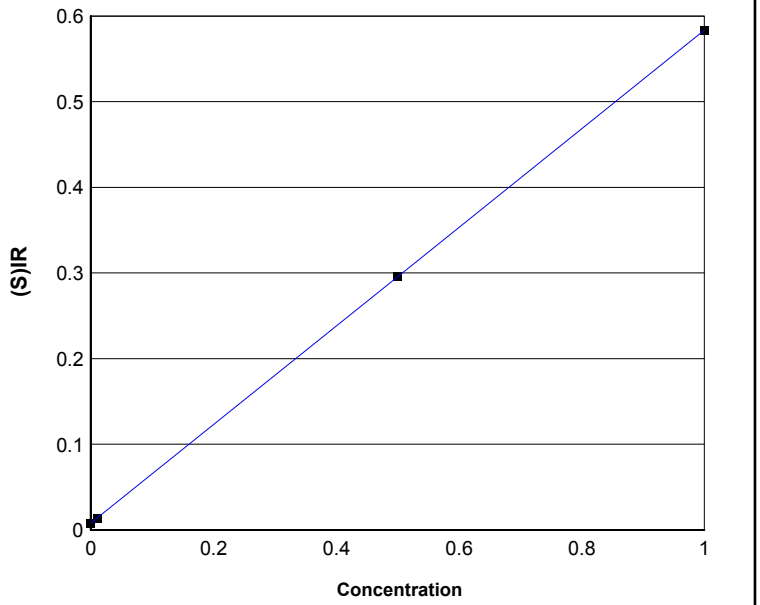
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.00000	0.0000000553	0.0000000553	0.00000	-0.000094077	0.00022071	1
IC-4130962	0.0040000	0.0039651	-0.000034943	-0.87358	0.0057263	0.00011278	1
IC-4121446	0.50000	0.49487	-0.0051253	-1.0251	0.72726	0.0010411	1
IC-4121445	1.0000	1.0052	0.0051602	0.51602	1.4772	0.00072082	1



Element Name:	Cr
Element Wavelength:	Cr 267.716 nm
Concentration Units:	ppm
Date of Calibration:	7/25/2017 11:08:28AM
Date of Fit:	7/25/2017 11:56:27AM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	0.000033618
A1 (Gain):	0.36343
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

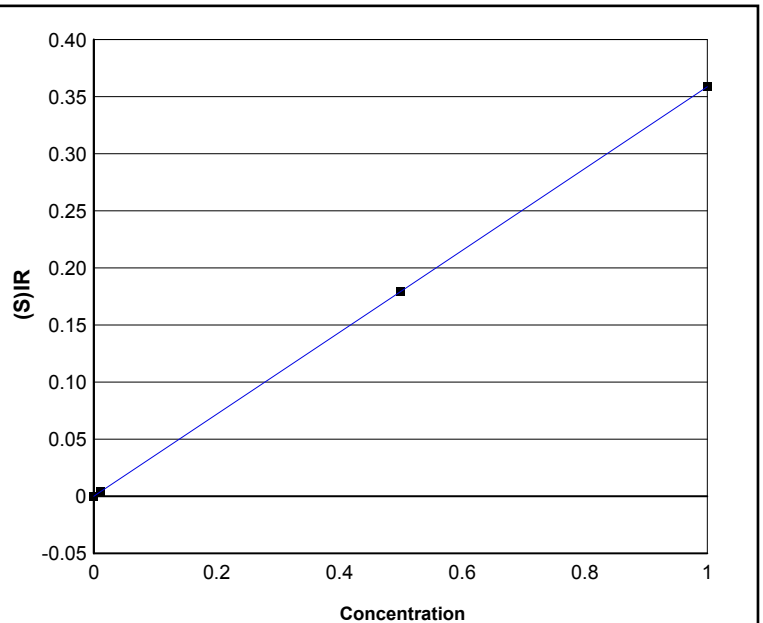
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.00000	0.0000003268	-0.0000003268	0.00000	0.000033499	0.00017721	1
IC-4130962	0.0040000	0.0043258	0.00032585	8.1461	0.0016057	0.00019513	1
IC-4121446	0.50000	0.50057	0.00057217	0.11443	0.18191	0.0016682	1
IC-4121445	1.0000	0.99910	-0.00089808	-0.089808	0.36305	0.00045402	1



Element Name:	Cu
Element Wavelength:	Cu 324.754 nm
Concentration Units:	ppm
Date of Calibration:	7/25/2017 11:08:28AM
Date of Fit:	7/25/2017 11:56:27AM
Type of Fit:	Linear
Correlation:	1.00000
A0 (Offset):	0.0079221
A1 (Gain):	0.57553
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

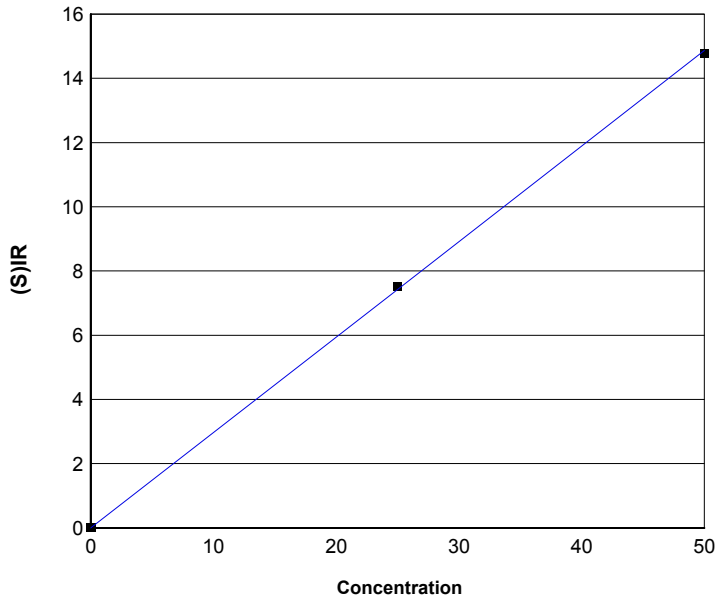
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.00000	0.0000002560	-0.0000002560	0.00000	0.0079219	0.000067328	1
IC-4130962	0.010000	0.010251	0.00025131	2.5131	0.013822	0.00017116	1
IC-4121446	0.50000	0.50072	0.00072139	0.14428	0.29610	0.00038140	1
IC-4121445	1.0000	0.99903	-0.00097269	-0.097269	0.58290	0.0033963	1



Element Name:	Cu
Element Wavelength:	Cu 327.396 nm
Concentration Units:	ppm
Date of Calibration:	7/25/2017 11:08:28AM
Date of Fit:	7/25/2017 11:56:27AM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	-0.000012586
A1 (Gain):	0.35868
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

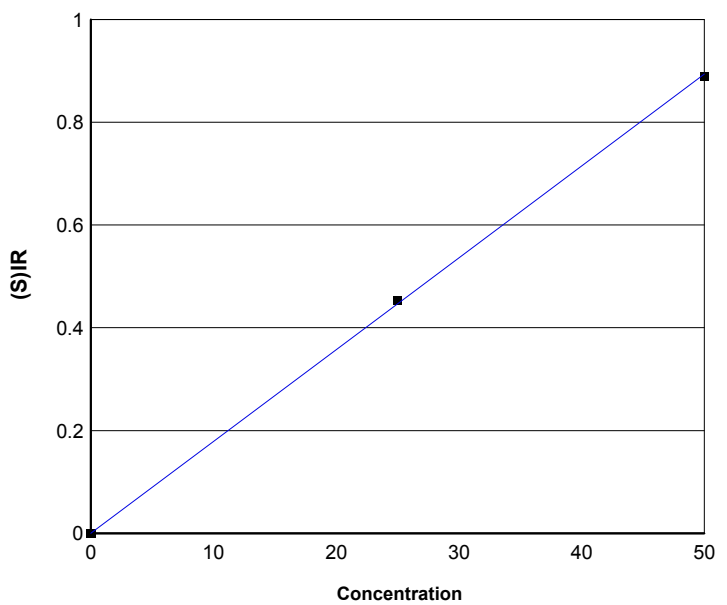
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.00000	0.0000006548	-0.0000006548	0.00000	-0.000012821	0.00014849	1
IC-4130962	0.010000	0.010656	0.00065635	6.5635	0.0038141	0.00017315	1
IC-4121446	0.50000	0.50050	0.00050153	0.10031	0.17968	0.00032162	1
IC-4121445	1.0000	0.99884	-0.0011580	-0.11580	0.35860	0.00092840	1



Element Name:	Fe
Element Wavelength:	Fe 259.940 nm
Concentration Units:	ppm
Date of Calibration:	7/25/2017 11:08:28AM
Date of Fit:	7/25/2017 11:56:27AM
Type of Fit:	Linear
Correlation:	0.99996
A0 (Offset):	0.00039402
A1 (Gain):	0.29724
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

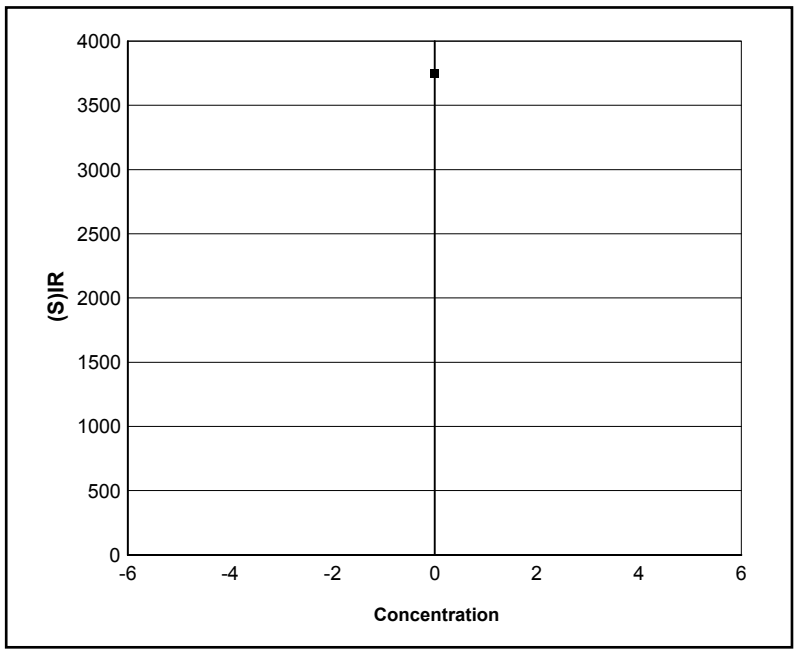
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.00000	0.0000067159	-0.0000067159	0.00000	0.00039202	0.00039402	1
IC-4130962	0.050000	0.056416	0.0064159	12.832	0.017163	0.0010292	1
IC-4121446	25.000	25.306	0.30640	1.2256	7.5224	0.047121	1
IC-4121445	50.000	49.687	-0.31281	-0.62562	14.769	0.073972	1



Element Name:	Fe
Element Wavelength:	Fe 271.441 nm
Concentration Units:	ppm
Date of Calibration:	7/25/2017 11:08:28AM
Date of Fit:	7/25/2017 11:56:27AM
Type of Fit:	Linear
Correlation:	0.99974
A0 (Offset):	0.000071150
A1 (Gain):	0.017874
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

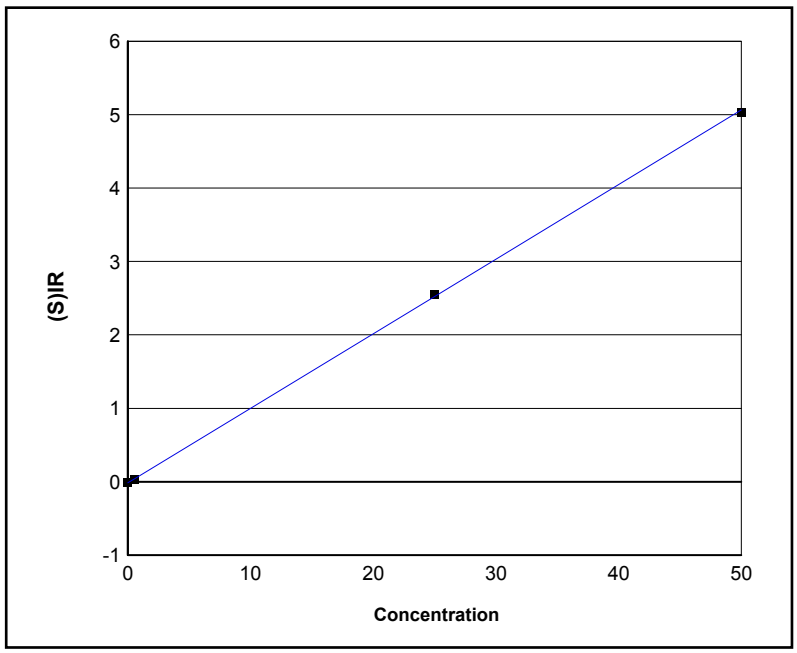
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.00000	0.000040268	0.000040268	0.00000	0.000071869	0.0010600	1
IC-4130962	0.050000	0.0093624	-0.040638	-81.275	0.00023849	0.000096979	1
IC-4121446	25.000	25.329	0.32915	1.3166	0.45281	0.0044087	1
IC-4121445	50.000	49.711	-0.28852	-0.57703	0.88862	0.0032328	1



Element Name:	In
Element Wavelength:	In 230.606 nm
Concentration Units:	ppm
Date of Calibration:	7/25/2017 10:58:32AM
Date of Fit:	7/25/2017 11:56:27AM
Type of Fit:	Linear
Correlation:	0.0000
A0 (Offset):	0.0000
A1 (Gain):	0.0000
A2 (Curvature):	0.0000
n (Exponent):	1.000

Reslope		**QC Normalize**	
Slope:	1.000	**Slope factor:**	1.000
Y Int:	0.0000	**Offset:**	0.0000

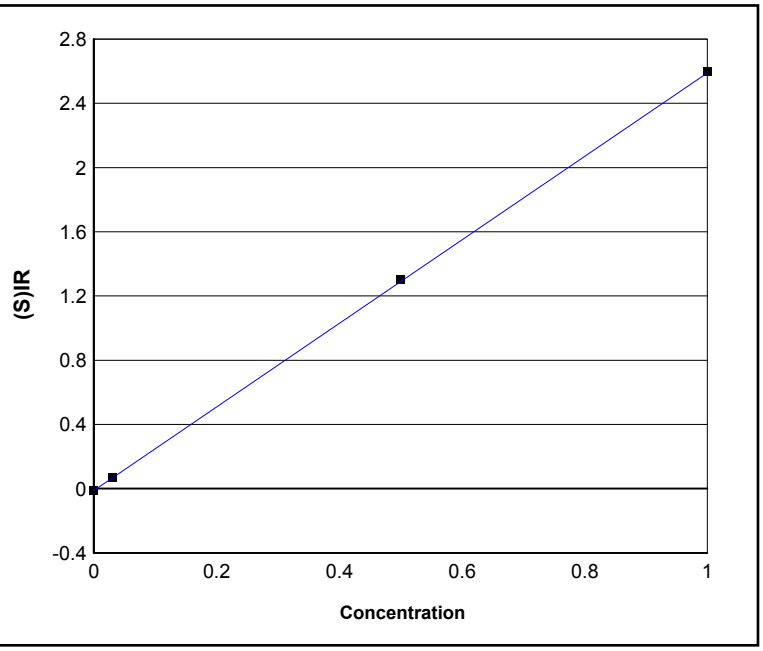
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.0000			0.0000	3,750	3.192	1



Element Name:	K
Element Wavelength:	K 766.490 nm
Concentration Units:	ppm
Date of Calibration:	7/25/2017 11:08:28AM
Date of Fit:	7/25/2017 11:56:27AM
Type of Fit:	Linear
Correlation:	0.99996
A0 (Offset):	-0.015961
A1 (Gain):	0.10162
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

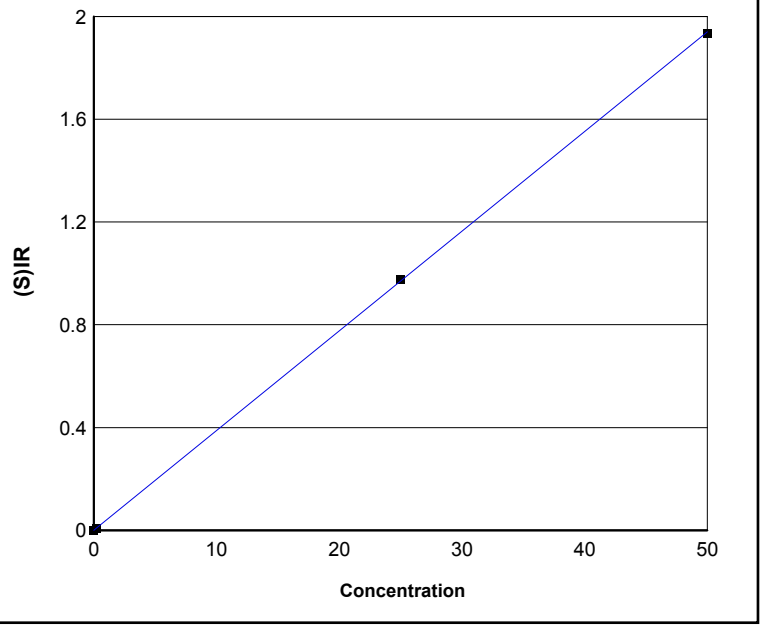
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.00000	-0.000018447	-0.000018447	0.00000	-0.015963	0.0019354	1
IC-4130962	0.50000	0.51572	0.015720	3.1440	0.036448	0.00022317	1
IC-4121446	25.000	25.288	0.28848	1.1539	2.5539	0.019075	1
IC-4121445	50.000	49.696	-0.30420	-0.60840	5.0343	0.025390	1



Element Name:	Li
Element Wavelength:	Li 670.784 nm
Concentration Units:	ppm
Date of Calibration:	7/25/2017 11:08:28AM
Date of Fit:	7/25/2017 11:56:27AM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	-0.011027
A1 (Gain):	2.6011
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

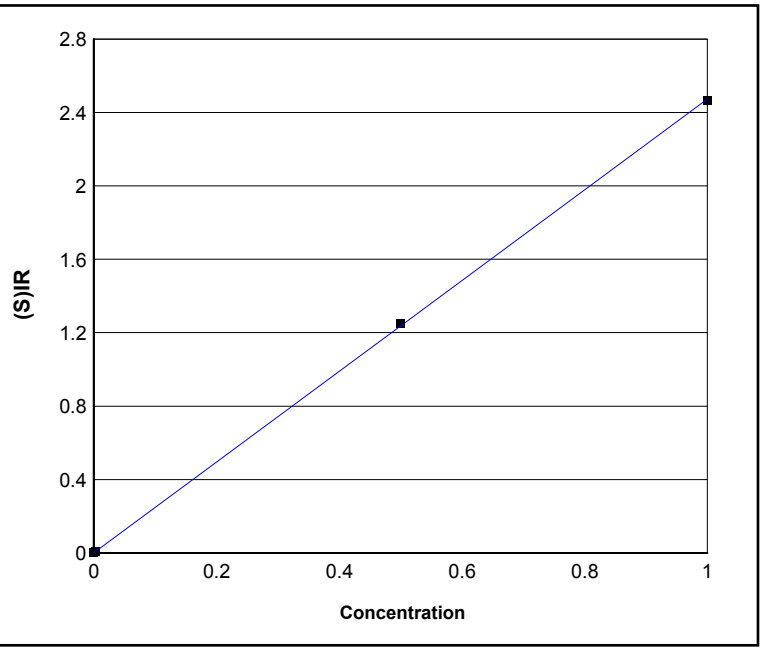
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.00000	0.0000003847	-0.0000003847	0.00000	-0.011028	0.00056725	1
IC-4130962	0.030000	0.030314	0.00031411	1.0470	0.067954	0.0066314	1
IC-4121446	0.50000	0.50266	0.0026648	0.53297	1.3030	0.0018690	1
IC-4121445	1.0000	0.99702	-0.0029779	-0.29779	2.5953	0.0082443	1



Element Name:	Mg
Element Wavelength:	Mg 279.079 nm
Concentration Units:	ppm
Date of Calibration:	7/25/2017 11:08:28AM
Date of Fit:	7/25/2017 11:56:27AM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	0.00015680
A1 (Gain):	0.038812
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

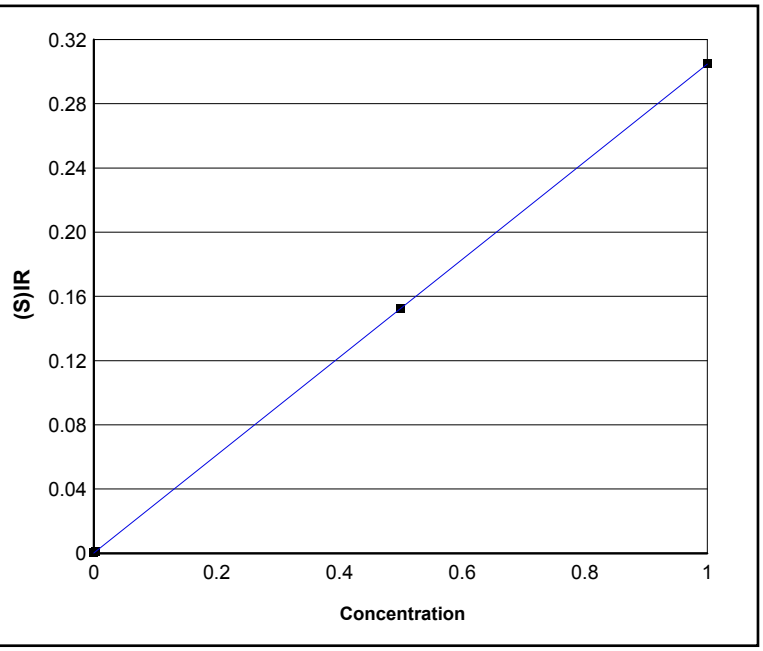
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.00000	0.0000031460	-0.0000031460	0.00000	0.00015668	0.00018834	1
IC-4130962	0.20000	0.20259	0.0025944	1.2972	0.0080197	0.00022930	1
IC-4121446	25.000	25.141	0.14051	0.56204	0.97587	0.00043959	1
IC-4121445	50.000	49.857	-0.14310	-0.28621	1.9351	0.0027591	1



Element Name:	Mn
Element Wavelength:	Mn 257.610 nm
Concentration Units:	ppm
Date of Calibration:	7/25/2017 11:08:28AM
Date of Fit:	7/25/2017 11:56:27AM
Type of Fit:	Linear
Correlation:	0.99998
A0 (Offset):	0.00066433
A1 (Gain):	2.4716
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

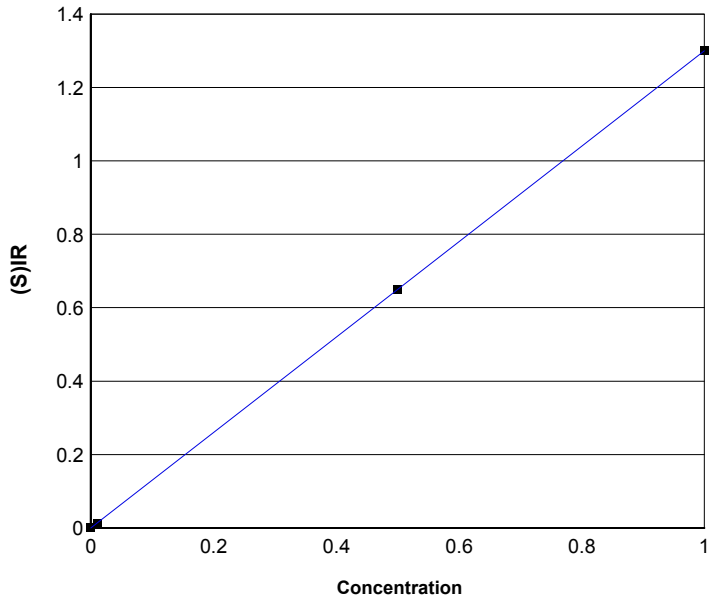
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.00000	0.0000002140	-0.0000002140	0.00000	0.00066380	0.000085476	1
IC-4130962	0.0030000	0.0032017	0.00020175	6.7250	0.0085808	0.000022672	1
IC-4121446	0.50000	0.50429	0.0042944	0.85889	1.2482	0.00029831	1
IC-4121445	1.0000	0.99550	-0.0044961	-0.44961	2.4634	0.0012314	1



Element Name:	Mn
Element Wavelength:	Mn 257.610 nm
Concentration Units:	ppm
Date of Calibration:	7/25/2017 11:08:28AM
Date of Fit:	7/25/2017 11:56:27AM
Type of Fit:	Linear
Correlation:	0.99998
A0 (Offset):	0.00025031
A1 (Gain):	0.30448
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

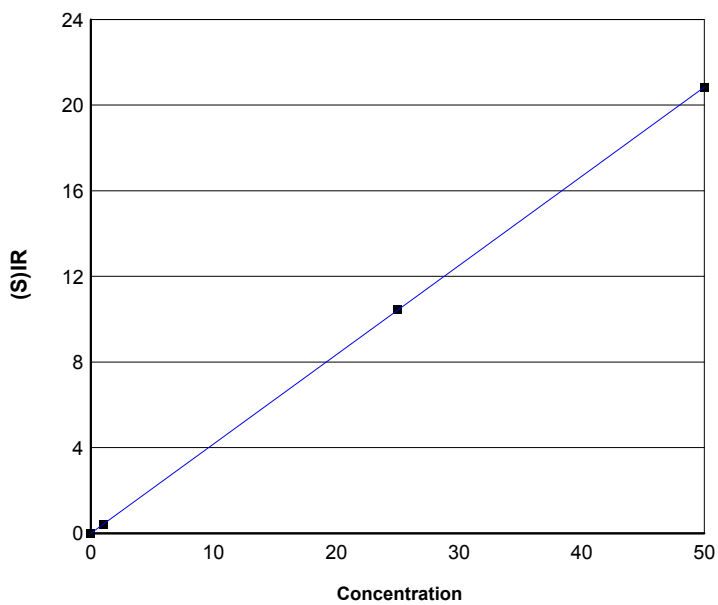
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.00000	0.0000003767	0.0000003767	0.00000	0.00025042	0.000034906	1
IC-4130962	0.0030000	0.0026217	-0.00037835	-12.612	0.0010489	0.000030072	1
IC-4121446	0.50000	0.50018	0.00017586	0.035171	0.15268	0.00064284	1
IC-4121445	1.0000	1.0002	0.00020231	0.020231	0.30506	0.0013438	1



Element Name:	Mo
Element Wavelength:	Mo 202.030 nm
Concentration Units:	ppm
Date of Calibration:	7/25/2017 11:08:28AM
Date of Fit:	7/25/2017 11:56:27AM
Type of Fit:	Linear
Correlation:	1.00000
A0 (Offset):	0.00029462
A1 (Gain):	1.2997
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

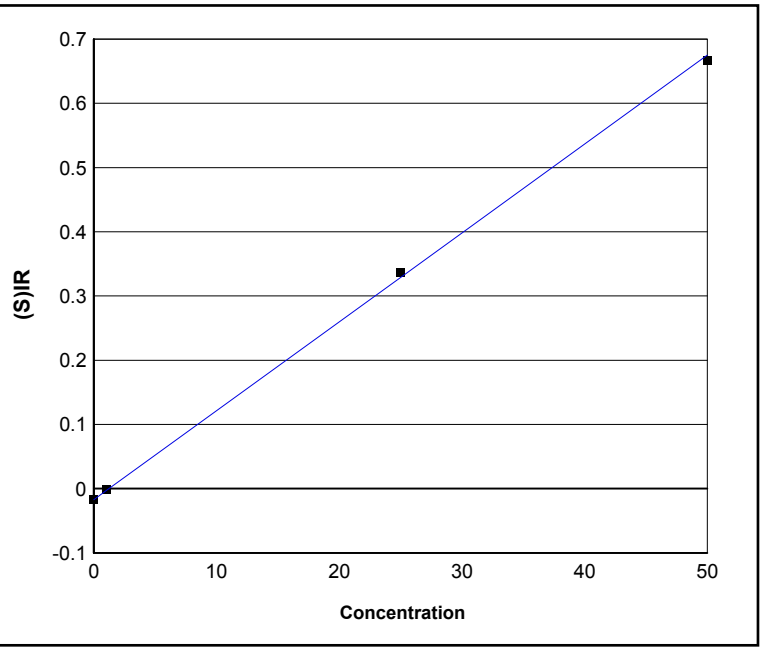
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.00000	0.0000000549	-0.0000000549	0.00000	0.00029455	0.000092450	1
IC-4130962	0.010000	0.010060	0.000059820	0.59820	0.013369	0.000088892	1
IC-4121446	0.50000	0.49957	-0.00043304	-0.086608	0.64957	0.00056878	1
IC-4121445	1.0000	1.0004	0.00037322	0.037322	1.3005	0.0034019	1



Element Name:	Na
Element Wavelength:	Na 589.592 nm
Concentration Units:	ppm
Date of Calibration:	7/25/2017 11:08:28AM
Date of Fit:	7/25/2017 11:56:27AM
Type of Fit:	Linear
Correlation:	1.00000
A0 (Offset):	0.0021309
A1 (Gain):	0.41680
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

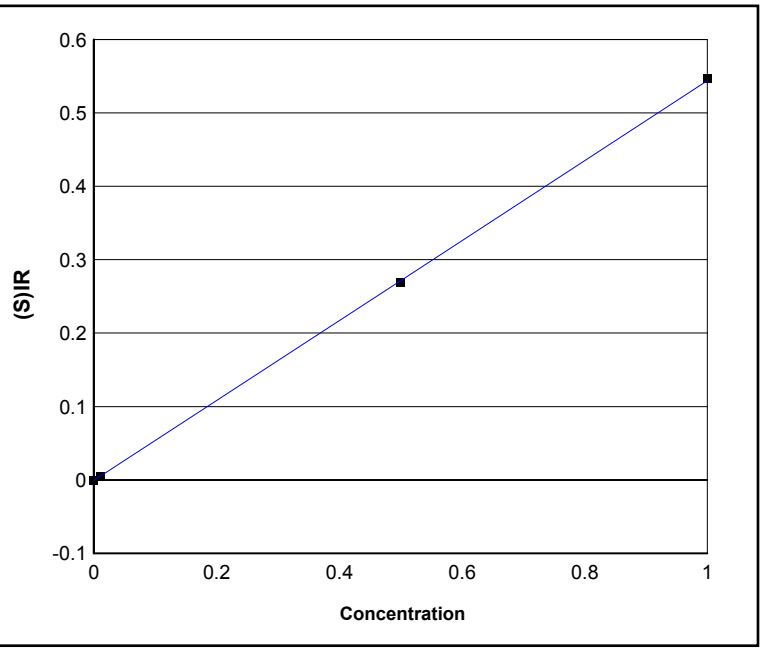
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.00000	0.0000071285	-0.0000071285	0.00000	0.0021280	0.0072155	1
IC-4130962	1.0000	1.0063	0.0063109	0.63109	0.42156	0.0051745	1
IC-4121446	25.000	25.047	0.047191	0.18876	10.442	0.054077	1
IC-4121445	50.000	49.946	-0.053501	-0.10700	20.820	0.061079	1



Element Name:	Na
Element Wavelength:	Na 818.326 nm
Concentration Units:	ppm
Date of Calibration:	7/25/2017 11:08:28AM
Date of Fit:	7/25/2017 11:56:27AM
Type of Fit:	Linear
Correlation:	0.99985
A0 (Offset):	-0.016922
A1 (Gain):	0.013840
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

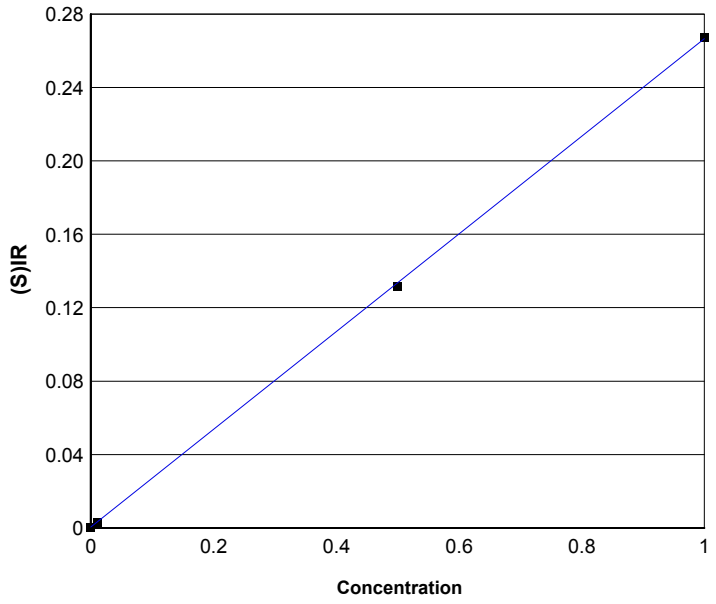
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.00000	-0.000084075	-0.000084075	0.00000	-0.016923	0.0029004	1
IC-4130962	1.0000	1.0757	0.075670	7.5670	-0.0020347	0.0028440	1
IC-4121446	25.000	25.496	0.49591	1.9837	0.33593	0.0021621	1
IC-4121445	50.000	49.428	-0.57158	-1.1432	0.66715	0.0041755	1



Element Name:	Ni
Element Wavelength:	Ni 231.604 nm
Concentration Units:	ppm
Date of Calibration:	7/25/2017 11:08:28AM
Date of Fit:	7/25/2017 11:56:27AM
Type of Fit:	Linear
Correlation:	0.99998
A0 (Offset):	-0.00071689
A1 (Gain):	0.54465
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

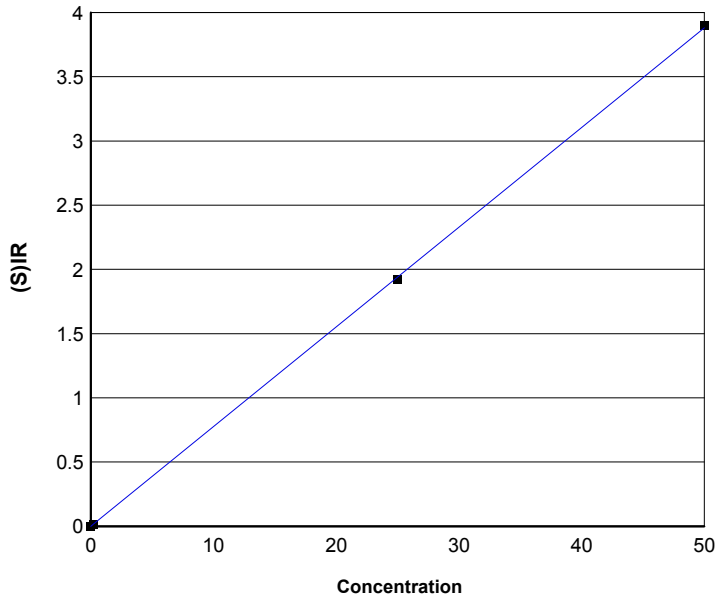
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.00000	0.0000001205	0.0000001205	0.00000	-0.00071682	0.00020020	1
IC-4130962	0.010000	0.0099232	-0.000076753	-0.76753	0.0046884	0.000079866	1
IC-4121446	0.50000	0.49555	-0.0044496	-0.88992	0.26948	0.00010712	1
IC-4121445	1.0000	1.0045	0.0045263	0.45263	0.54698	0.00020025	1



Element Name:	Pb
Element Wavelength:	Pb 220.353 nm
Concentration Units:	ppm
Date of Calibration:	7/25/2017 11:08:28AM
Date of Fit:	7/25/2017 11:56:27AM
Type of Fit:	Linear
Correlation:	0.99997
A0 (Offset):	0.00046630
A1 (Gain):	0.26617
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

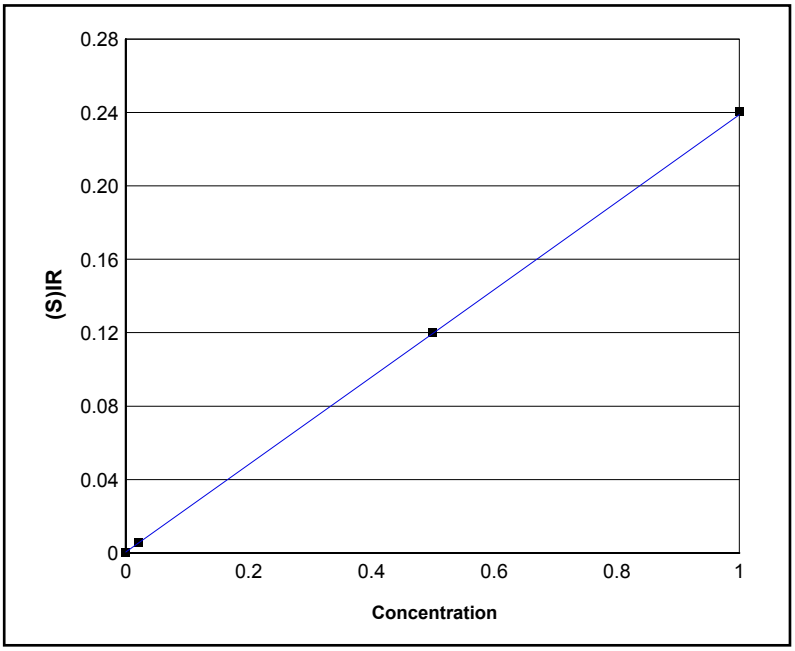
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.00000	0.0000003165	-0.0000003165	0.00000	0.00046621	0.00014112	1
IC-4130962	0.010000	0.010375	0.00037492	3.7492	0.0032221	0.00018675	1
IC-4121446	0.50000	0.49453	-0.0054689	-1.0938	0.13182	0.00035598	1
IC-4121445	1.0000	1.0051	0.0050940	0.50940	0.26744	0.00075781	1



Element Name:	S
Element Wavelength:	S 182.034 nm
Concentration Units:	ppm
Date of Calibration:	7/25/2017 11:08:28AM
Date of Fit:	7/25/2017 11:56:27AM
Type of Fit:	Linear
Correlation:	0.99998
A0 (Offset):	0.00019895
A1 (Gain):	0.077602
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

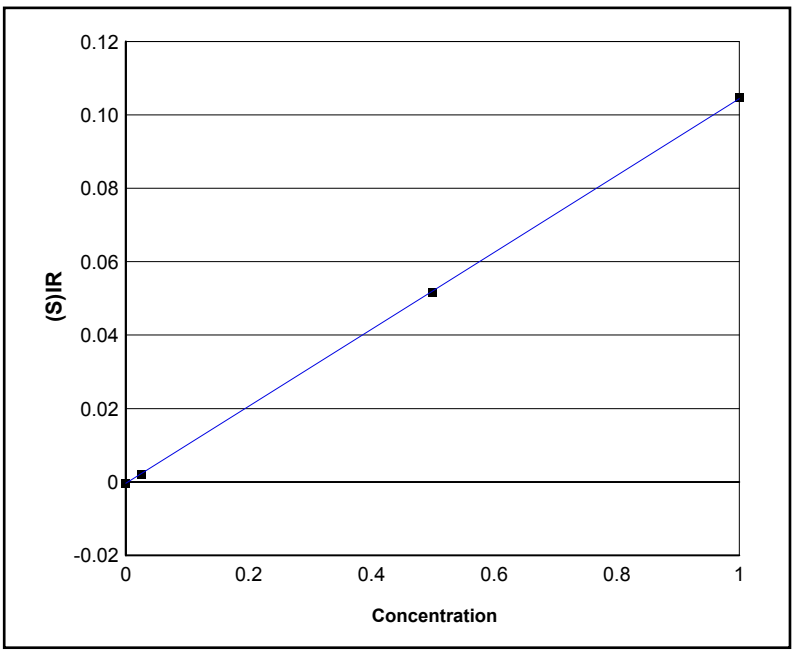
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.00000	0.0000075054	0.0000075054	0.00000	0.00019953	0.00013477	1
IC-4130962	0.20000	0.19336	-0.0066380	-3.3190	0.015204	0.0000016528	1
IC-4121446	25.000	24.777	-0.22350	-0.89399	1.9229	0.0011412	1
IC-4121445	50.000	50.230	0.23014	0.46027	3.8982	0.0025628	1



Element Name:	Sb
Element Wavelength:	Sb 206.833 nm
Concentration Units:	ppm
Date of Calibration:	7/25/2017 11:08:28AM
Date of Fit:	7/25/2017 11:56:27AM
Type of Fit:	Linear
Correlation:	0.99998
A0 (Offset):	0.00044206
A1 (Gain):	0.23837
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

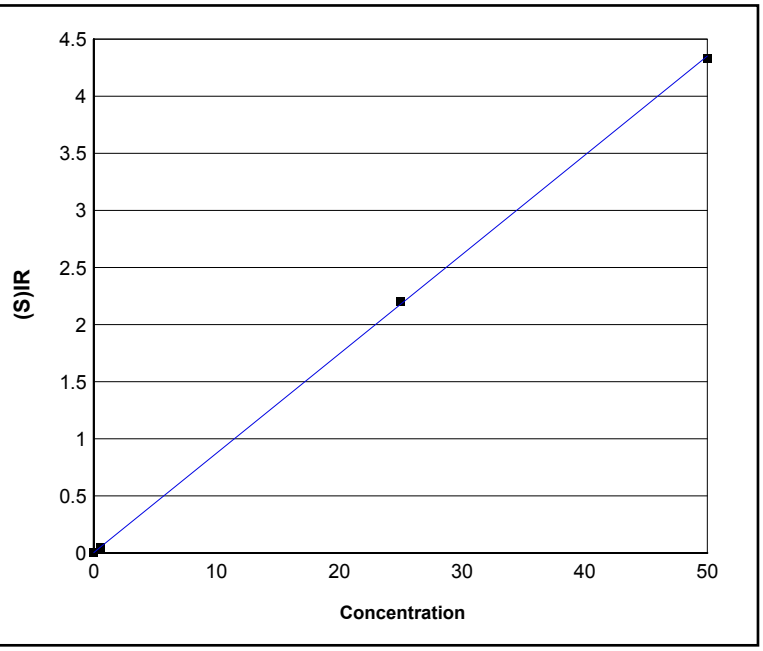
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.00000	0.0000010272	-0.0000010272	0.00000	0.00044182	0.000038793	1
IC-4130962	0.020000	0.021070	0.0010700	5.3499	0.0054755	0.000032225	1
IC-4121446	0.50000	0.49892	-0.0010777	-0.21554	0.12038	0.000076896	1
IC-4121445	1.0000	1.0000	0.000014243	0.0014243	0.24083	0.00016191	1



Element Name:	Se
Element Wavelength:	Se 196.090 nm
Concentration Units:	ppm
Date of Calibration:	7/25/2017 11:08:28AM
Date of Fit:	7/25/2017 11:56:27AM
Type of Fit:	Linear
Correlation:	0.99991
A0 (Offset):	-0.00037552
A1 (Gain):	0.10478
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

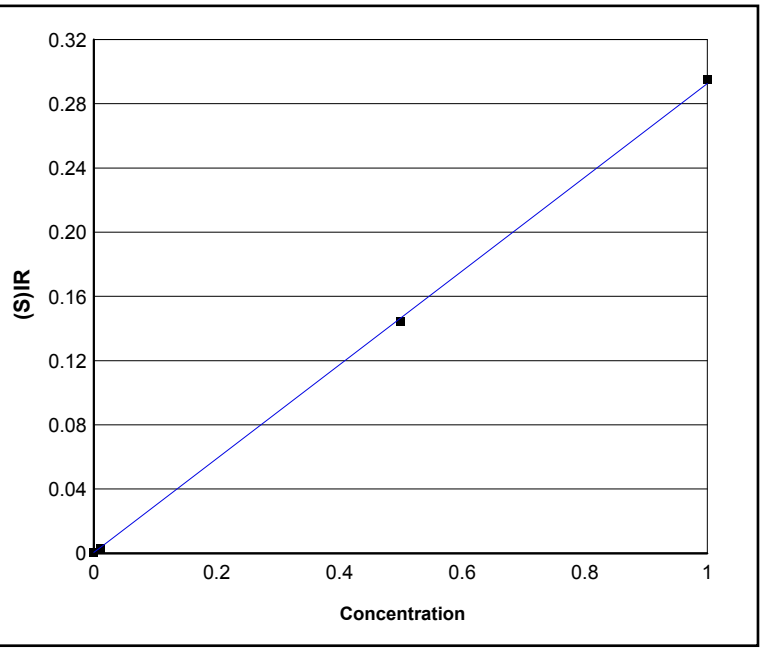
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.00000	0.0000024390	0.0000024390	0.00000	-0.00037527	0.00025067	1
IC-4130962	0.025000	0.022545	-0.0024551	-9.8203	0.0019859	0.000041370	1
IC-4121446	0.50000	0.49819	-0.0018143	-0.36285	0.051728	0.00037118	1
IC-4121445	1.0000	1.0043	0.0042730	0.42730	0.10466	0.00028668	1



Element Name:	Si
Element Wavelength:	Si 288.158 nm
Concentration Units:	ppm
Date of Calibration:	7/25/2017 11:08:28AM
Date of Fit:	7/25/2017 11:56:27AM
Type of Fit:	Linear
Correlation:	0.99998
A0 (Offset):	0.0036416
A1 (Gain):	0.086960
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

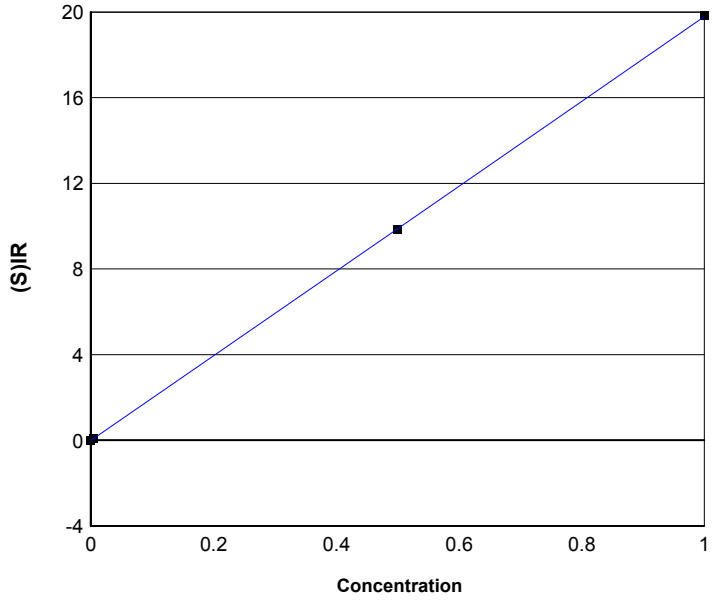
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.00000	0.0000079710	-0.0000079710	0.00000	0.0036409	0.00099574	1
IC-4130962	0.50000	0.50558	0.0055834	1.1167	0.047607	0.00072738	1
IC-4121446	25.000	25.244	0.24435	0.97740	2.1989	0.024319	1
IC-4121445	50.000	49.750	-0.24993	-0.49987	4.3299	0.020027	1



Element Name:	Sn
Element Wavelength:	Sn 189.989 nm
Concentration Units:	ppm
Date of Calibration:	7/25/2017 11:08:28AM
Date of Fit:	7/25/2017 11:56:27AM
Type of Fit:	Linear
Correlation:	0.99993
A0 (Offset):	0.00051143
A1 (Gain):	0.29199
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

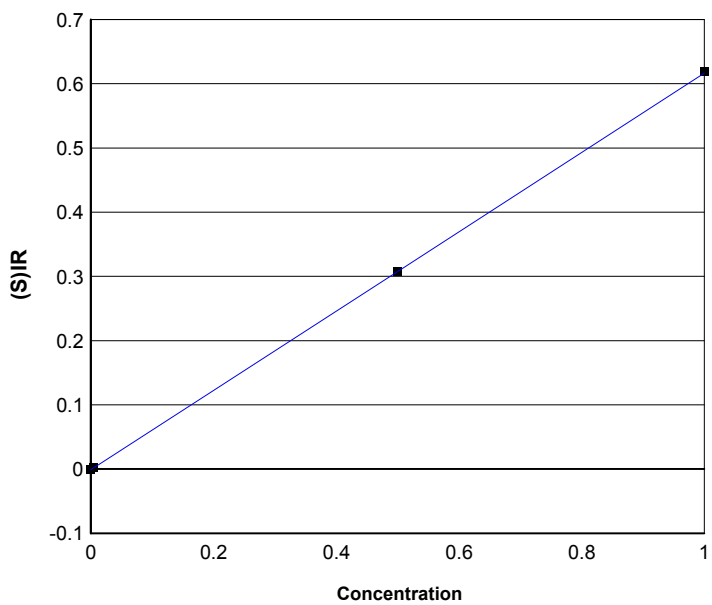
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.00000	0.0000006553	0.0000006553	0.00000	0.00051162	0.00011211	1
IC-4130962	0.010000	0.0094135	-0.00058647	-5.8647	0.0032601	0.000087861	1
IC-4121446	0.50000	0.49253	-0.0074686	-1.4937	0.14433	0.00037849	1
IC-4121445	1.0000	1.0081	0.0080550	0.80550	0.29486	0.00070444	1



Element Name:	Sr
Element Wavelength:	Sr 407.771 nm
Concentration Units:	ppm
Date of Calibration:	7/25/2017 11:08:28AM
Date of Fit:	7/25/2017 11:56:27AM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	-0.0039876
A1 (Gain):	19.787
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

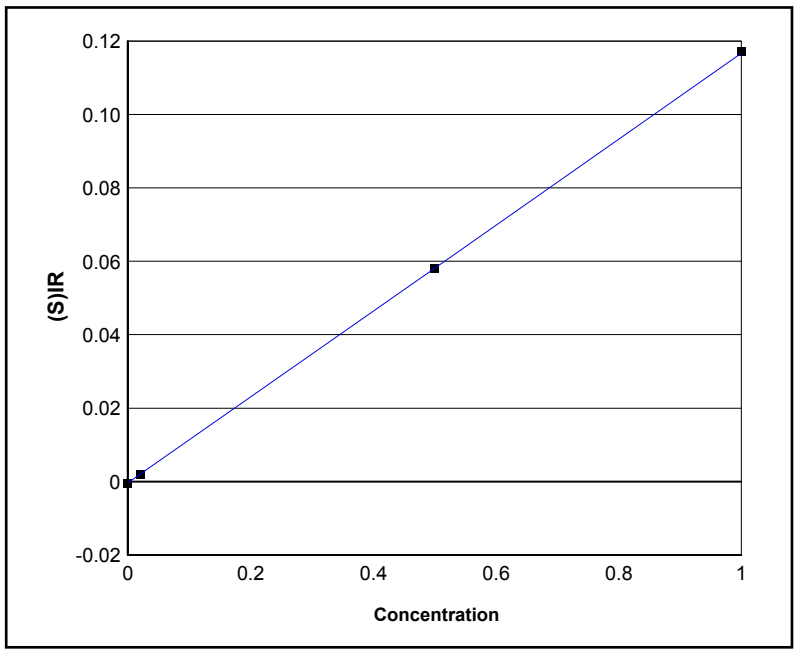
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.00000	0.0000000107	-0.0000000107	0.00000	-0.0039879	0.000082642	1
IC-4130962	0.0050000	0.0050225	0.000022484	0.44968	0.095393	0.00042172	1
IC-4121446	0.50000	0.49766	-0.0023366	-0.46733	9.8433	0.053882	1
IC-4121445	1.0000	1.0023	0.0023142	0.23142	19.829	0.023874	1



Element Name:	Ti
Element Wavelength:	Ti 334.904 nm
Concentration Units:	ppm
Date of Calibration:	7/25/2017 11:08:28AM
Date of Fit:	7/25/2017 11:56:27AM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	-0.00091494
A1 (Gain):	0.61749
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

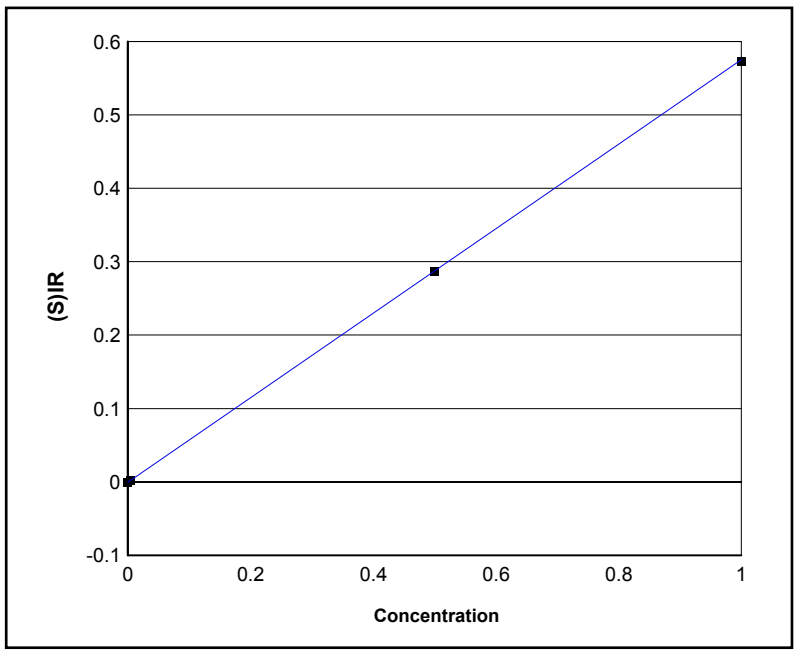
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.00000	0.0000003368	0.0000003368	0.00000	-0.00091473	0.00058359	1
IC-4130962	0.0050000	0.0046688	-0.00033123	-6.6245	0.0019757	0.00014229	1
IC-4121446	0.50000	0.49854	-0.0014563	-0.29125	0.30736	0.00024369	1
IC-4121445	1.0000	1.0018	0.0017878	0.17878	0.61854	0.00065510	1



Element Name:	Tl
Element Wavelength:	Tl 190.856 nm
Concentration Units:	ppm
Date of Calibration:	7/25/2017 11:08:28AM
Date of Fit:	7/25/2017 11:56:27AM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	-0.00040798
A1 (Gain):	0.11709
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

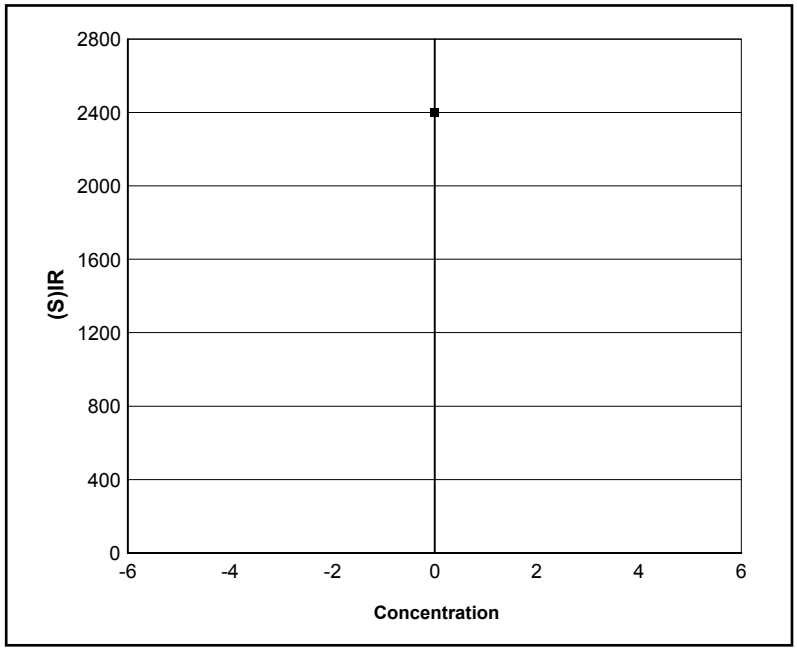
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.00000	0.0000007720	0.0000007720	0.00000	-0.00040789	0.000051111	1
IC-4130962	0.020000	0.019242	-0.00075805	-3.7903	0.0018452	0.00017181	1
IC-4121446	0.50000	0.49854	-0.0014555	-0.29110	0.058058	0.00043551	1
IC-4121445	1.0000	1.0022	0.0022124	0.22124	0.11712	0.00045114	1



Element Name:	V
Element Wavelength:	V 292.402 nm
Concentration Units:	ppm
Date of Calibration:	7/25/2017 11:08:28AM
Date of Fit:	7/25/2017 11:56:27AM
Type of Fit:	Linear
Correlation:	1.00000
A0 (Offset):	-0.00036435
A1 (Gain):	0.57537
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

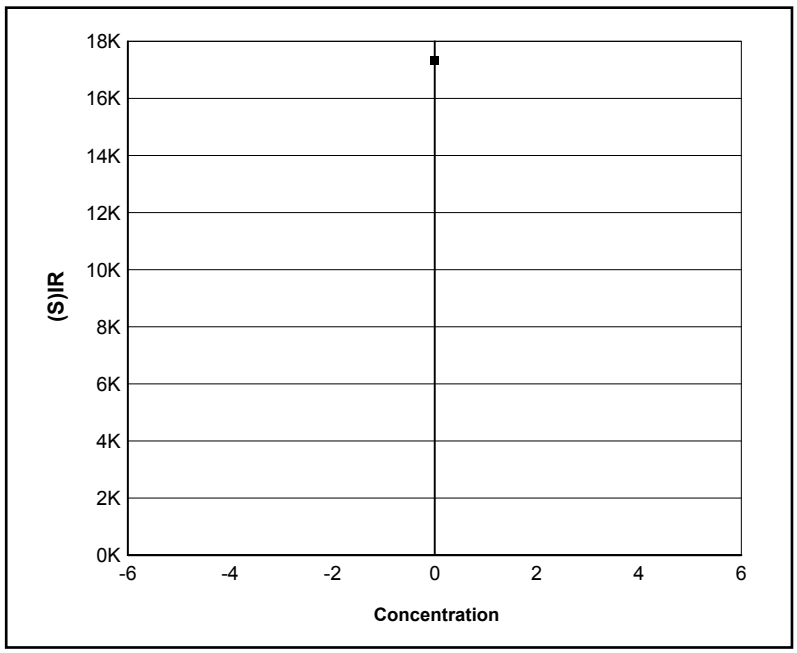
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.00000	0.0000001152	0.0000001152	0.00000	-0.00036429	0.000039782	1
IC-4130962	0.0050000	0.0048812	-0.00011885	-2.3770	0.0024147	0.00024583	1
IC-4121446	0.50000	0.50060	0.00060470	0.12094	0.28646	0.00054928	1
IC-4121445	1.0000	0.99951	-0.00048656	-0.048656	0.57232	0.0012994	1



Element Name:	Y
Element Wavelength:	Y 224.306 nm
Concentration Units:	ppm
Date of Calibration:	7/25/2017 10:58:32AM
Date of Fit:	7/25/2017 11:56:27AM
Type of Fit:	Linear
Correlation:	0.0000
A0 (Offset):	0.0000
A1 (Gain):	0.0000
A2 (Curvature):	0.0000
n (Exponent):	1.000

Reslope		QC Normalize	
Slope:	1.000	**Slope factor:**	1.000
Y Int:	0.0000	**Offset:**	0.0000

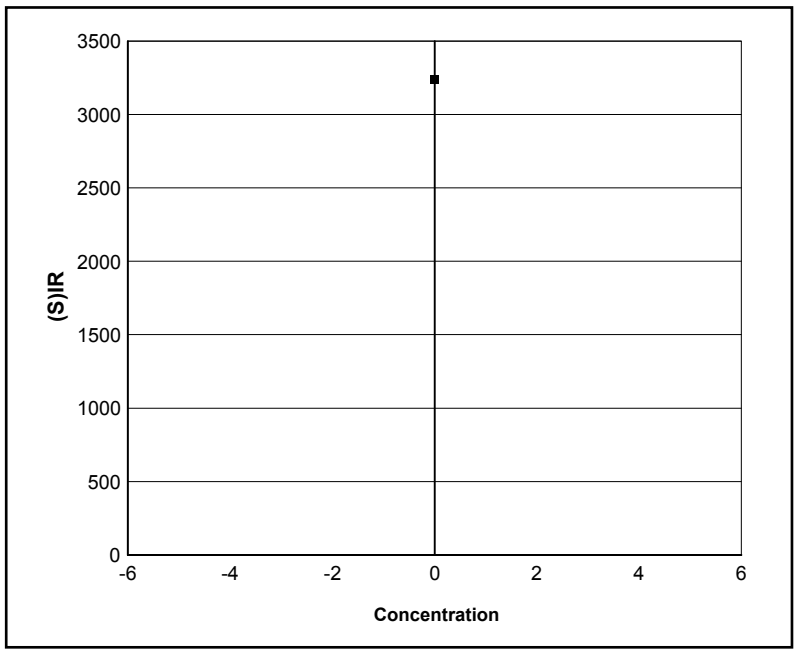
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.0000			0.0000	2,403	0.4795	1



Element Name:	Y
Element Wavelength:	Y 360.073 nm
Concentration Units:	ppm
Date of Calibration:	7/25/2017 10:58:32AM
Date of Fit:	7/25/2017 11:56:27AM
Type of Fit:	Linear
Correlation:	0.0000
A0 (Offset):	0.0000
A1 (Gain):	0.0000
A2 (Curvature):	0.0000
n (Exponent):	1.000

Reslope		QC Normalize	
Slope:	1.000	**Slope factor:**	1.000
Y Int:	0.0000	**Offset:**	0.0000

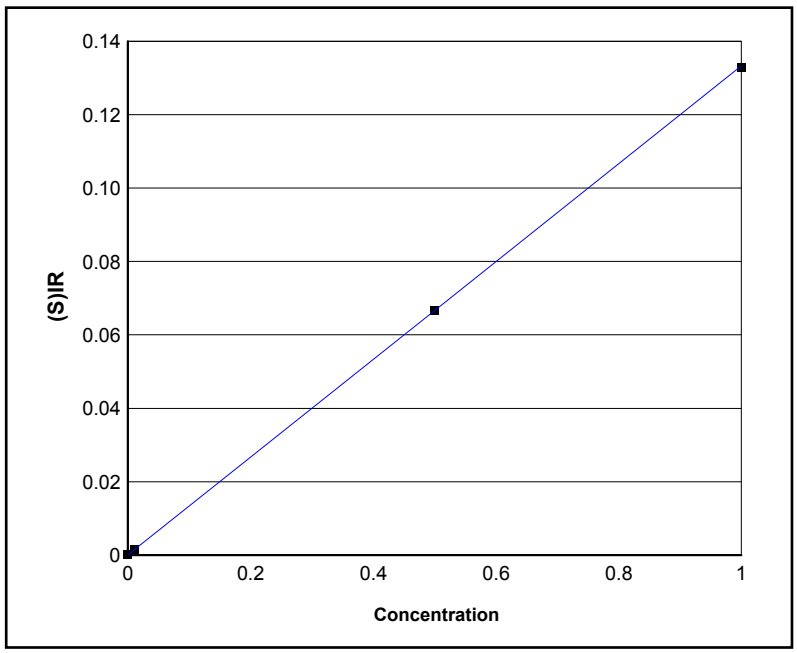
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.0000			0.0000	17,310	59.53	1



Element Name:	Y
Element Wavelength:	Y 377.433 nm
Concentration Units:	ppm
Date of Calibration:	7/25/2017 10:58:32AM
Date of Fit:	7/25/2017 11:56:27AM
Type of Fit:	Linear
Correlation:	0.0000
A0 (Offset):	0.0000
A1 (Gain):	0.0000
A2 (Curvature):	0.0000
n (Exponent):	1.000

Reslope		**QC Normalize**	
Slope:	1.000	**Slope factor:**	1.000
Y Int:	0.0000	**Offset:**	0.0000

Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.0000			0.0000	3,236	14.33	1



Element Name:	Zn
Element Wavelength:	Zn 206.200 nm
Concentration Units:	ppm
Date of Calibration:	7/25/2017 11:08:28AM
Date of Fit:	7/25/2017 11:56:27AM
Type of Fit:	Linear
Correlation:	0.99996
A0 (Offset):	0.000024876
A1 (Gain):	0.13323
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.00000	0.0000010913	-0.0000010913	0.00000	0.000024730	0.000024727	1
IC-4130962	0.010000	0.011098	0.0010977	10.977	0.0015025	0.000062299	1
IC-4121446	0.50000	0.50046	0.00046398	0.092797	0.066583	0.00020888	1
IC-4121445	1.0000	0.99844	-0.0015628	-0.15628	0.13281	0.00030046	1

Sample Name: ICIS-4130963 Acquired: 7/25/2017 10:55:06 Type: Cal
Method: ICAP2 June 2017(v59) Mode: IR Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.00013**	**.00173**	**-.00013**	**.00237**	**.01615**
Stddev	.00025	.00028	.00005	.00007	.00121
%RSD	194.53	16.114	36.741	2.9302	7.4649
#1	-.00031	.00153	-.00016	.00232	.01530
#2	.00005	.00192	-.00009	.00242	.01701

Elem	Ba4554-2	Be3130	Ca3179	Cd2288	**Ce4040
Line	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00663**	**.00043**	**.01362**	**.00099**	**.0021**
Stddev	.00110	.00099	.00115	.00026	.0016
%RSD	16.524	232.69	8.4580	26.225	74.28
#1	.00740	.00113	.01281	.00080	.0033
#2	.00585	-.00028	.01444	.00117	.0010

Elem	Co2286	Cr2677	Cu3273	Fe2599	Fe2714
Line	228.616 {447}	267.716 {126}	327.396 {103}	259.940 {130}	271.441 {124}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.00009**	**.00003**	**-.00001**	**.00039**	**.00007**
Stddev	.00022	.00018	.00015	.00039	.00106
%RSD	234.61	529.01	1158.2	100.51	1474.9
#1	.00006	.00016	.00009	.00011	-.00068
#2	-.00025	-.00009	-.00012	.00067	.00082

Elem	K_7664	Li6707	Mg2790	Mn2576	Mn2576-2
Line	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.01596**	**-.01103**	**.00016**	**.00066**	**.00025**
Stddev	.00194	.00057	.00019	.00009	.00003
%RSD	12.124	5.1438	120.20	12.877	13.939
#1	-.01733	-.01063	.00002	.00060	.00023
#2	-.01459	-.01143	.00029	.00072	.00028

Sample Name: ICIS-4130963 Acquired: 7/25/2017 10:55:06 Type: Cal
Method: ICAP2 June 2017(v59) Mode: IR Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Na8183	Ni2316	Pb2203
Line	202.030 {467}	589.592 { 57}	818.326 { 41}	231.604 {446}	220.353 {453}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00029**	**.00213**	**-.01692**	**-.00072**	**.00047**
Stddev	.00009	.00722	.00290	.00020	.00014
%RSD	31.387	339.08	17.139	27.929	30.269
#1	.00036	.00723	-.01487	-.00058	.00057
#2	.00023	-.00297	-.01897	-.00086	.00037

Elem	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00020**	**.00044**	**-.00038**	**.00364**	**.00051**
Stddev	.00013	.00004	.00025	.00100	.00011
%RSD	67.541	8.7803	66.798	27.348	21.912
#1	.00010	.00041	-.00055	.00435	.00043
#2	.00029	.00047	-.00020	.00294	.00059

Elem	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.00399**	**-.00091**	**-.00041**	**-.00036**	**.00002**
Stddev	.00008	.00058	.00005	.00004	.00002
%RSD	2.0723	63.800	12.531	10.920	99.988
#1	-.00405	-.00133	-.00037	-.00034	.00001
#2	-.00393	-.00050	-.00044	-.00039	.00004

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3749.9**	**2402.5**	**17308.**	**3236.4**
Stddev	3.2	.5	60.	14.3
%RSD	.08513	.01996	.34391	.44293
#1	3752.1	2402.2	17350.	3246.5
#2	3747.6	2402.9	17266.	3226.3

Sample Name: IC-4130962 Acquired: 7/25/2017 10:58:35 Type: Cal
Method: ICAP2 June 2017(v59) Mode: IR Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00265**	**.01339**	**.00199**	**.01650**	**.03615**
Stddev	.00019	.00090	.00030	.00019	.00012
%RSD	7.1121	6.6997	15.143	1.1645	.34239
#1	.00252	.01276	.00221	.01664	.03624
#2	.00278	.01402	.00178	.01637	.03607

Elem	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.06270**	**.02658**	**.21424**	**.00849**	**.00573**
Stddev	.00042	.00070	.00098	.00027	.00011
%RSD	.66215	2.6257	.45764	3.2128	1.9695
#1	.06241	.02708	.21355	.00868	.00565
#2	.06300	.02609	.21493	.00829	.00581

Elem	Cr2677	Cu3273	Fe2599	Fe2714	K_7664
Line	267.716 {126}	327.396 {103}	259.940 {130}	271.441 {124}	766.490 { 44}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00161**	**.00381**	**.01716**	**.00024**	**.03645**
Stddev	.00020	.00017	.00103	.00010	.00022
%RSD	12.152	4.5398	5.9968	40.663	.61231
#1	.00147	.00369	.01644	.00031	.03661
#2	.00174	.00394	.01789	.00017	.03629

Elem	Li6707	Mg2790	Mn2576	Mn2576-2	Mo2020
Line	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2	202.030 {467}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.06795**	**.00802**	**.00858**	**.00105**	**.01337**
Stddev	.00663	.00023	.00002	.00003	.00009
%RSD	9.7587	2.8592	.26421	2.8669	.66491
#1	.06326	.00786	.00856	.00103	.01343
#2	.07264	.00818	.00860	.00107	.01331

Sample Name: IC-4130962 Acquired: 7/25/2017 10:58:35 Type: Cal
Method: ICAP2 June 2017(v59) Mode: IR Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Na5895	Na8183	Ni2316	Pb2203	S_1820
Line	589.592 { 57}	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.42156**	**-.00203**	**.00469**	**.00322**	**.01520**
Stddev	.00517	.00284	.00008	.00019	.00000
%RSD	1.2275	139.77	1.7035	5.7957	.01087
#1	.41791	-.00002	.00463	.00309	.01521
#2	.42522	-.00405	.00474	.00335	.01520

Elem	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00548**	**.00199**	**.04761**	**.00326**	**.09539**
Stddev	.00003	.00004	.00073	.00009	.00042
%RSD	.58853	2.0832	1.5279	2.6950	.44209
#1	.00550	.00196	.04812	.00320	.09569
#2	.00545	.00202	.04709	.00332	.09509

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00198**	**.00185**	**.00241**	**.00150**
Stddev	.00014	.00017	.00025	.00006
%RSD	7.2022	9.3113	10.181	4.1463
#1	.00188	.00172	.00259	.00155
#2	.00208	.00197	.00224	.00146

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3780.7**	**2430.1**	**17377.**	**3246.7**
Stddev	.5	1.9	127.	14.0
%RSD	.01317	.07725	.73321	.43068
#1	3781.0	2431.4	17467.	3256.6
#2	3780.3	2428.7	17287.	3236.8

Sample Name: IC-4121446 Acquired: 7/25/2017 11:02:04 Type: Cal
Method: ICAP2 June 2017(v59) Mode: IR Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.23811**	**1.4056**	**.06738**	**.36296**	**4.7732**
Stddev	.00010	.0104	.00031	.00107	.0345
%RSD	.04220	.74276	.45993	.29570	.72332
#1	.23818	1.3982	.06716	.36220	4.7488
#2	.23804	1.4129	.06759	.36372	4.7976

Elem	Ba4554-2	Be3130	Ca3179	Cd2288	**Ce4040
Line	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**13.415**	**6.5261**	**10.084**	**1.8196**	**.0378**
Stddev	.016	.0390	.045	.0008	.0009
%RSD	.11859	.59698	.44543	.04227	2.316
#1	13.404	6.4986	10.052	1.8191	.0372
#2	13.426	6.5537	10.116	1.8202	.0384

Elem	Co2286	Cr2677	Cu3273	Fe2599	Fe2714
Line	228.616 {447}	267.716 {126}	327.396 {103}	259.940 {130}	271.441 {124}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.72726**	**.18191**	**.17968**	**7.5224**	**.45281**
Stddev	.00104	.00167	.00032	.0471	.00441
%RSD	.14315	.91701	.17899	.62640	.97364
#1	.72653	.18309	.17946	7.4891	.44969
#2	.72800	.18073	.17991	7.5557	.45592

Elem	K_7664	Li6707	Mg2790	Mn2576	Mn2576-2
Line	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2.5539**	**1.3030**	**.97587**	**1.2482**	**.15268**
Stddev	.0191	.0019	.00044	.0003	.00064
%RSD	.74689	.14344	.04505	.02390	.42104
#1	2.5404	1.3016	.97556	1.2484	.15223
#2	2.5674	1.3043	.97618	1.2480	.15313

Sample Name: IC-4121446 Acquired: 7/25/2017 11:02:04 Type: Cal
Method: ICAP2 June 2017(v59) Mode: IR Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Na8183	Ni2316	Pb2203
Line	202.030 {467}	589.592 { 57}	818.326 { 41}	231.604 {446}	220.353 {453}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.64957**	**10.442**	**.33593**	**.26948**	**.13182**
Stddev	.00057	.054	.00216	.00011	.00036
%RSD	.08756	.51789	.64360	.03975	.27005
#1	.64997	10.404	.33440	.26955	.13157
#2	.64917	10.480	.33746	.26940	.13207

Elem	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1.9229**	**.12038**	**.05173**	**2.1989**	**.14433**
Stddev	.0011	.00008	.00037	.0243	.00038
%RSD	.05935	.06388	.71756	1.1060	.26224
#1	1.9237	.12043	.05199	2.1817	.14406
#2	1.9221	.12032	.05147	2.2161	.14460

Elem	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**9.8433**	**.30736**	**.05806**	**.28646**	**.06658**
Stddev	.0539	.00024	.00044	.00055	.00021
%RSD	.54740	.07928	.75014	.19175	.31371
#1	9.8052	.30719	.05775	.28685	.06673
#2	9.8814	.30753	.05837	.28608	.06644

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3427.0**	**2376.3**	**16894.**	**3250.2**
Stddev	.9	2.6	24.	10.0
%RSD	.02484	.10907	.14179	.30840
#1	3426.4	2374.5	16911.	3257.3
#2	3427.6	2378.1	16877.	3243.1

Sample Name: IC-4121445 Acquired: 7/25/2017 11:05:17 Type: Cal
Method: ICAP2 June 2017(v59) Mode: IR Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.48147**	**2.7989**	**.13690**	**.72148**	**9.4041**
Stddev	.00220	.0066	.00014	.00130	.0289
%RSD	.45707	.23597	.10486	.18027	.30735
#1	.47992	2.7942	.13700	.72056	9.3836
#2	.48303	2.8035	.13680	.72240	9.4245

Elem	Ba4554-2	Be3130	Ca3179	Cd2288	**Ce4040
Line	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**26.194**	**12.808**	**19.966**	**3.6501**	**.0782**
Stddev	.116	.043	.087	.0008	.0017
%RSD	.44298	.33753	.43390	.02338	2.203
#1	26.276	12.778	19.904	3.6495	.0794
#2	26.112	12.839	20.027	3.6507	.0770

Elem	Co2286	Cr2677	Cu3273	Fe2599	Fe2714
Line	228.616 {447}	267.716 {126}	327.396 {103}	259.940 {130}	271.441 {124}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1.4772**	**.36305**	**.35860**	**14.769**	**.88862**
Stddev	.0007	.00045	.00093	.074	.00323
%RSD	.04879	.12506	.25889	.50085	.36379
#1	1.4778	.36273	.35795	14.717	.88633
#2	1.4767	.36337	.35926	14.822	.89091

Elem	K_7664	Li6707	Mg2790	Mn2576	Mn2576-2
Line	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5.0343**	**2.5953**	**1.9351**	**2.4634**	**.30506**
Stddev	.0254	.0082	.0028	.0012	.00134
%RSD	.50435	.31766	.14258	.04999	.44050
#1	5.0163	2.5895	1.9332	2.4642	.30601
#2	5.0522	2.6012	1.9371	2.4625	.30411

Sample Name: IC-4121445 Acquired: 7/25/2017 11:05:17 Type: Cal
Method: ICAP2 June 2017(v59) Mode: IR Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Na8183	Ni2316	Pb2203
Line	202.030 {467}	589.592 { 57}	818.326 { 41}	231.604 {446}	220.353 {453}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1.3005**	**20.820**	**.66715**	**.54698**	**.26744**
Stddev	.0034	.061	.00418	.00020	.00076
%RSD	.26160	.29337	.62587	.03661	.28335
#1	1.2980	20.777	.66419	.54712	.26798
#2	1.3029	20.863	.67010	.54684	.26691

Elem	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3.8982**	**.24083**	**.10466**	**4.3299**	**.29486**
Stddev	.0026	.00016	.00029	.0200	.00070
%RSD	.06574	.06723	.27392	.46253	.23891
#1	3.8964	.24094	.10446	4.3157	.29436
#2	3.9000	.24071	.10486	4.3441	.29536

Elem	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**19.829**	**.61854**	**.11712**	**.57232**	**.13281**
Stddev	.024	.00066	.00045	.00130	.00030
%RSD	.12040	.10591	.38518	.22704	.22623
#1	19.812	.61808	.11680	.57140	.13302
#2	19.846	.61900	.11744	.57324	.13260

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3252.8**	**2332.3**	**16610.**	**3257.2**
Stddev	.8	2.4	31.	20.9
%RSD	.02540	.10231	.18869	.64270
#1	3253.4	2334.0	16588.	3272.0
#2	3252.2	2330.6	16632.	3242.4

Sample Name: ICV-4147886 Acquired: 7/25/2017 11:08:32 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.37077**	**18.807**	**.37460**	**.37793**	**.37353**
Stddev	.00039	.065	.00278	.00155	.00060
%RSD	.10629	.34551	.74138	.41134	.15995
#1	.37105	18.853	.37264	.37684	.37311
#2	.37050	18.761	.37656	.37903	.37395
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.37869**	**18.724**	**.37537**	**.0090**	**.36797**
Stddev	.00072	.026	.00048	.0056	.00021
%RSD	.18938	.14115	.12828	62.93	.05748
#1	.37920	18.705	.37503	.0050	.36782
#2	.37818	18.743	.37571	.0130	.36812
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.38351**	**.37649**	**18.489**	**18.633**	**.37101**
Stddev	.00046	.00330	.014	.040	.00310
%RSD	.12003	.87575	.07589	.21256	.83541
#1	.38384	.37416	18.479	18.605	.37321
#2	.38319	.37882	18.498	18.661	.36882
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: ICV-4147886 Acquired: 7/25/2017 11:08:32 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**18.932**	**.38632**	**.37816**	**18.601**	**.37225**
Stddev	.053	.00027	.00075	.008	.00056
%RSD	.27740	.06960	.19731	.04045	.15070
#1	18.895	.38613	.37763	18.606	.37185
#2	18.969	.38651	.37868	18.595	.37265
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.37070**	**18.432**	**.37311**	**.37222**	**18.334**
Stddev	.00052	.015	.00359	.00236	.021
%RSD	.14038	.08098	.96223	.63529	.11503
#1	.37107	18.422	.37565	.37389	18.319
#2	.37033	18.443	.37057	.37055	18.349
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.37551**	**.37127**	**.37659**	**.37911**	**.37772**
Stddev	.00008	.00041	.00047	.00034	.00032
%RSD	.02014	.10911	.12528	.08949	.08543
#1	.37557	.37155	.37626	.37935	.37795
#2	.37546	.37098	.37693	.37887	.37749
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: ICV-4147886 Acquired: 7/25/2017 11:08:32 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.38232
Stddev	.00027
%RSD	.07097
#1	.38213
#2	.38252
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3489.3	2390.1	16922.	3279.1
Stddev	2.1	3.0	36.	5.5
%RSD	.06054	.12368	.21186	.16656
#1	3490.8	2392.2	16947.	3282.9
#2	3487.8	2388.1	16896.	3275.2

Sample Name: ICB-4130963 Acquired: 7/25/2017 11:11:45 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00033**	**.01075**	**.00033**	**.00044**	**.00003**
Stddev	.00032	.02073	.00038	.00038	.00003
%RSD	96.215	192.88	115.01	86.644	104.00
#1	-.00056	.02541	.00006	.00072	.00004
#2	-.00011	-.00391	.00060	.00017	.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**-.00017**	**-.00012**	**.0078**	**.00003**
Stddev	.00004	.00356	.00010	.0059	.00008
%RSD	288.41	2052.0	82.175	75.20	242.92
#1	-.00004	-.00269	-.00005	.0037	-.00002
#2	.00001	.00234	-.00019	.0120	.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00020**	**-.00047**	**.00322**	**.01677**	**.00148**
Stddev	.00027	.00033	.00367	.02524	.00042
%RSD	137.39	68.799	114.08	150.54	28.346
#1	.00001	-.00024	.00581	-.00108	.00178
#2	.00039	-.00070	.00062	.03462	.00118
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICB-4130963 Acquired: 7/25/2017 11:11:45 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00486**	**.00005**	**.00020**	**-.01144**	**.00050**
Stddev	.00091	.00000	.00024	.00059	.00023
%RSD	18.839	.01120	119.24	5.1365	44.674
#1	-.00550	.00005	.00003	-.01102	.00066
#2	-.00421	.00005	.00037	-.01185	.00035
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00175**	**-.00121**	**-.00011**	**-.00224**	**.00146**
Stddev	.00006	.00003	.00074	.00279	.00769
%RSD	3.6495	2.5522	649.39	124.49	527.52
#1	-.00171	-.00124	.00041	-.00027	-.00398
#2	-.00180	-.00119	-.00064	-.00421	.00690
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00022**	**.00001**	**.00054**	**.00032**	**.00029**
Stddev	.00011	.00006	.00038	.00094	.00065
%RSD	48.727	1141.8	70.972	294.24	221.67
#1	-.00015	-.00004	.00027	-.00035	.00075
#2	-.00030	.00005	.00081	.00099	-.00017
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICB-4130963 Acquired: 7/25/2017 11:11:45 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	-.00001
Stddev	.00012
%RSD	1393.0
#1	.00008
#2	-.00009
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3756.8	2407.1	17229.	3265.3
Stddev	1.2	1.4	86.	12.4
%RSD	.03289	.05970	.50076	.38108
#1	3755.9	2406.0	17168.	3256.5
#2	3757.6	2408.1	17290.	3274.1

Sample Name: ICVL-4147888 Acquired: 7/25/2017 11:15:13 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00547**	**.20510**	**.01570**	**.01999**	**.00208**
Stddev	.00025	.01646	.00153	.00006	.00001
%RSD	4.6192	8.0253	9.7689	.28340	.37976
#1	.00529	.21674	.01678	.01995	.00208
#2	.00565	.19346	.01461	.02003	.00207
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00201**	**.49761**	**.00192**	**-.0060**	**.00380**
Stddev	.00001	.00721	.00014	.0025	.00004
%RSD	.34646	1.4484	7.0560	41.75	1.1638
#1	.00200	.50271	.00183	-.0042	.00377
#2	.00201	.49252	.00202	-.0078	.00383
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00420**	**.01025**	**.05090**	**.51015**	**.02824**
Stddev	.00076	.00055	.00188	.00085	.00057
%RSD	18.183	5.3283	3.7033	.16600	2.0022
#1	.00366	.00987	.04956	.50955	.02784
#2	.00474	.01064	.05223	.51075	.02864
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: ICVL-4147888 Acquired: 7/25/2017 11:15:13 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19871**	**.00315**	**.01032**	**.98772**	**.00993**
Stddev	.00506	.00015	.00007	.00289	.00014
%RSD	2.5478	4.6454	.69751	.29281	1.3612
#1	.20229	.00326	.01037	.98976	.01002
#2	.19513	.00305	.01027	.98567	.00983
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00866**	**.19041**	**.01990**	**.02527**	**.50024**
Stddev	.00006	.00313	.00273	.00094	.00622
%RSD	.74953	1.6449	13.698	3.7121	1.2431
#1	.00870	.19262	.02182	.02461	.50463
#2	.00861	.18819	.01797	.02594	.49584
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00888**	**.00489**	**.00471**	**.02018**	**.00541**
Stddev	.00008	.00001	.00012	.00018	.00040
%RSD	.92196	.22216	2.5429	.87590	7.3780
#1	.00894	.00489	.00480	.02030	.00513
#2	.00882	.00490	.00463	.02005	.00570
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: ICVL-4147888 Acquired: 7/25/2017 11:15:13 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.01098
Stddev	.00002
%RSD	.17438
#1	.01099
#2	.01096
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3772.5	2427.4	17367.	3278.7
Stddev	8.0	4.8	53.	6.1
%RSD	.21153	.19569	.30490	.18636
#1	3778.2	2430.8	17329.	3274.4
#2	3766.9	2424.1	17404.	3283.0

Sample Name: ICSA-4090634 Acquired: 7/25/2017 11:18:41 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00080**	**506.75**	**.00052**	**-.00143**	**.00074**
Stddev	.00056	2.31	.00376	.00093	.00005
%RSD	69.535	.45541	722.67	65.110	6.9391
#1	-.00120	505.12	-.00214	-.00209	.00078
#2	-.00041	508.38	.00318	-.00077	.00071
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00008**	**468.23**	**-.00052**	**.0008**	**-.00084**
Stddev	.00011	1.00	.00009	.0068	.00007
%RSD	138.55	.21390	16.915	869.9	8.3626
#1	-.00015	468.94	-.00059	.0056	-.00079
#2	-.00000	467.52	-.00046	-.0040	-.00089
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00022**	**-.00480**	**187.16**	**-.03681**	**-.01652**
Stddev	.00056	.00066	.63	.00020	.00061
%RSD	254.83	13.776	.33680	.54368	3.6796
#1	-.00061	-.00433	186.72	-.03667	-.01695
#2	.00018	-.00527	187.61	-.03696	-.01609
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICSA-4090634 Acquired: 7/25/2017 11:18:41 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**520.44**	**.00026**	**-.00144**	**.01826**	**-.00142**
Stddev	.47	.00010	.00004	.00452	.00056
%RSD	.09001	39.881	2.9221	24.774	39.310
#1	520.77	.00033	-.00147	.02146	-.00103
#2	520.11	.00018	-.00141	.01506	-.00182
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00266**	**.04672**	**-.00016**	**.00055**	**.02211**
Stddev	.00094	.00341	.00266	.00382	.01202
%RSD	35.267	7.2925	1611.8	697.56	54.377
#1	-.00332	.04431	.00171	-.00216	.03062
#2	-.00200	.04913	-.00204	.00325	.01361
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00208**	**.03114**	**-.00086**	**-.00143**	**.00159**
Stddev	.00058	.00024	.00031	.00230	.00011
%RSD	27.788	.78651	36.453	161.12	6.8087
#1	.00167	.03097	-.00109	-.00305	.00151
#2	.00249	.03131	-.00064	.00020	.00166
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICSA-4090634 Acquired: 7/25/2017 11:18:41 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	**.00415**
Stddev	.00016
%RSD	3.8540
#1	.00427
#2	.00404
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2763.4**	**2183.8**	**15120.**	**3183.9**
Stddev	.2	6.3	72.	2.7
%RSD	.00841	.28694	.47343	.08585
#1	2763.6	2188.3	15069.	3185.8
#2	2763.3	2179.4	15171.	3182.0

Sample Name: ICSAB-4093406 Acquired: 7/25/2017 11:22:11 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.22485**	**533.10**	**.10960**	**.00167**	**.48887**
Stddev	.00110	1.13	.00202	.00020	.00076
%RSD	.48722	.21108	1.8414	11.861	.15483
#1	.22563	532.30	.10817	.00153	.48940
#2	.22408	533.89	.11102	.00181	.48833
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50308**	**472.26**	**1.0008**	**.0131**	**.49019**
Stddev	.00055	.72	.0001	.0150	.00028
%RSD	.10844	.15294	.00497	115.0	.05809
#1	.50346	471.75	1.0009	.0024	.49039
#2	.50269	472.77	1.0008	.0237	.48999
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49681**	**.51171**	**95.272**	**.04777**	**.48976**
Stddev	.00241	.00182	.023	.00258	.00012
%RSD	.48490	.35638	.02368	5.3961	.02552
#1	.49851	.51300	95.288	.04595	.48967
#2	.49510	.51042	95.256	.04960	.48985
Check ?	Chk Pass	Chk Pass	Chk Pass	None	None
Value					
Range					

Sample Name: ICSAB-4093406 Acquired: 7/25/2017 11:22:11 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**540.15**	**.49963**	**-.00032**	**.13142**	**.96623**
Stddev	1.13	.00045	.00041	.00270	.00179
%RSD	.20946	.08950	130.27	2.0521	.18574
#1	540.95	.49995	-.00003	.13333	.96496
#2	539.35	.49932	-.00061	.12951	.96750
Check ?	Chk Pass	Chk Pass	None	None	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04694**	**1.0211**	**.58931**	**.05139**	**1.0001**
Stddev	.00063	.0022	.00225	.00059	.0056
%RSD	1.3399	.21635	.38151	1.1522	.55780
#1	.04650	1.0226	.59090	.05097	1.0041
#2	.04739	1.0195	.58772	.05180	.99619
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00217**	**.48510**	**.00090**	**.09871**	**.51619**
Stddev	.00096	.00098	.00020	.00157	.00133
%RSD	44.095	.20136	22.034	1.5892	.25858
#1	.00285	.48441	.00104	.09982	.51714
#2	.00149	.48579	.00076	.09760	.51525
Check ?	None	None	None	Chk Pass	Chk Pass
Value					
Range					

Sample Name: ICSAB-4093406 Acquired: 7/25/2017 11:22:11 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	**.94729**
Stddev	.00504
%RSD	.53221
#1	.95086
#2	.94373
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2774.6**	**2188.3**	**15008.**	**3230.9**
Stddev	2.3	.3	59.	8.9
%RSD	.08343	.01425	.38996	.27630
#1	2776.3	2188.5	14966.	3224.5
#2	2773.0	2188.1	15049.	3237.2

Sample Name: ICEX1 Acquired: 7/25/2017 11:25:32 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00071**	**.08501**	**4.9868**	**-.00076**	**.00020**
Stddev	.00011	.03510	.0095	.00003	.00000
%RSD	15.828	41.294	.19121	3.4005	1.4979
#1	-.00078	.06019	4.9801	-.00078	.00020
#2	-.00063	.10983	4.9936	-.00074	.00020
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00035**	**.08739**	**.00039**	**-.0121**	**.00019**
Stddev	.00003	.00273	.00003	.0326	.00004
%RSD	7.4394	3.1207	7.0318	269.3	19.703
#1	.00034	.08932	.00041	.0110	.00022
#2	.00037	.08546	.00037	-.0352	.00016
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00013**	**25.798**	**.01808**	**.04529**	**.00026**
Stddev	.00044	.006	.00346	.02255	.00005
%RSD	330.78	.02423	19.146	49.788	19.163
#1	-.00018	25.802	.01563	.06123	.00029
#2	.00044	25.794	.02053	.02935	.00022
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX1 Acquired: 7/25/2017 11:25:32 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04064**	**.00045**	**.00043**	**-.00313**	**.00035**
Stddev	.00109	.00010	.00003	.00418	.00001
%RSD	2.6862	21.510	7.4530	133.47	2.4527
#1	.04142	.00038	.00045	-.00018	.00034
#2	.03987	.00052	.00041	-.00608	.00036
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**.00376**	**.00036**	**-.00082**	**.04817**
Stddev	.00069	.00049	.00116	.00005	.00751
%RSD	8368.3	13.026	320.83	6.3428	15.594
#1	.00048	.00410	-.00046	-.00078	.04286
#2	-.00050	.00341	.00118	-.00085	.05348
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00041**	**.00003**	**.00041**	**.01507**	**5.1447**
Stddev	.00018	.00002	.00030	.00122	.0129
%RSD	44.893	56.981	73.007	8.1119	.24985
#1	-.00053	.00002	.00063	.01421	5.1356
#2	-.00028	.00005	.00020	.01594	5.1538
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX1 Acquired: 7/25/2017 11:25:32 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.00322**
Stddev	.00036
%RSD	11.228
#1	.00348
#2	.00297
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3782.0**	**2439.0**	**17349.**	**3308.9**
Stddev	11.2	12.3	45.	13.0
%RSD	.29587	.50264	.25859	.39384
#1	3789.9	2447.7	17381.	3318.1
#2	3774.1	2430.3	17318.	3299.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	100.86%	101.52%	100.24%	102.24%
Range				

Sample Name: ICEX2 Acquired: 7/25/2017 11:29:02 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00224**	**.08491**	**.00329**	**.01025**	**.00011**
Stddev	.00090	.03154	.00055	.00015	.00003
%RSD	40.390	37.142	16.682	1.4880	24.412
#1	-.00160	.06261	.00368	.01036	.00009
#2	-.00287	.10721	.00291	.01014	.00013
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00160**	**.04659**	**.00034**	**-.0032**	**.00178**
Stddev	.00004	.00264	.00005	.0018	.00003
%RSD	2.4203	5.6729	14.087	54.90	1.8036
#1	-.00157	.04846	.00038	-.0044	.00181
#2	-.00163	.04472	.00031	-.0020	.00176
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00037**	**-.00704**	**.00789**	**.03466**	**-.00105**
Stddev	.00007	.00146	.00023	.01164	.00071
%RSD	19.655	20.752	2.9692	33.591	67.913
#1	.00042	-.00600	.00805	.02643	-.00054
#2	.00032	-.00807	.00772	.04289	-.00155
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX2 Acquired: 7/25/2017 11:29:02 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01926**	**.00190**	**.00002**	**.01852**	**.00443**
Stddev	.00307	.00004	.00011	.00291	.00003
%RSD	15.923	2.1912	566.98	15.736	.63109
#1	.02143	.00193	-.00006	.01646	.00441
#2	.01709	.00187	.00010	.02058	.00445
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00158**	**.01737**	**.00738**	**-.00286**	**.26189**
Stddev	.00051	.00020	.00216	.00177	.01302
%RSD	32.520	1.1542	29.282	61.728	4.9718
#1	.00194	.01751	.00586	-.00411	.25269
#2	.00121	.01723	.00891	-.00161	.27110
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00398**	**.00006**	**20.049**	**20.312**	**-.00358**
Stddev	.00032	.00010	.023	.044	.00016
%RSD	8.0964	162.86	.11630	.21671	4.4276
#1	-.00421	-.00001	20.066	20.343	-.00370
#2	-.00375	.00013	20.033	20.281	-.00347
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX2 Acquired: 7/25/2017 11:29:02 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.00313**
Stddev	.00025
%RSD	7.9549
#1	.00331
#2	.00296
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3776.3**	**2452.5**	**17424.**	**3334.0**
Stddev	2.5	3.3	32.	24.9
%RSD	.06686	.13343	.18609	.74670
#1	3778.1	2454.8	17447.	3316.4
#2	3774.6	2450.2	17401.	3351.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	100.71%	102.08%	100.67%	103.02%
Range				

Sample Name: ICEX3 Acquired: 7/25/2017 11:32:27 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00286**	**.05479**	**.00372**	**-.00120**	**.00015**
Stddev	.00074	.01264	.00004	.00007	.00001
%RSD	25.799	23.076	1.0611	6.1575	8.7228
#1	-.00338	.04585	.00369	-.00125	.00016
#2	-.00233	.06374	.00375	-.00115	.00014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**.03230**	**.00003**	**-.1849**	**.00005**
Stddev	.00001	.00375	.00023	.0231	.00002
%RSD	189.85	11.604	781.06	12.52	38.034
#1	.00000	.02965	-.00013	-.2013	.00006
#2	-.00002	.03495	.00019	-.1686	.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00136**	**.00280**	**.00539**	**.02601**	**-.00043**
Stddev	.00011	.00075	.00082	.00431	.00083
%RSD	8.1182	26.756	15.179	16.587	195.07
#1	-.00144	.00227	.00481	.02296	.00016
#2	-.00128	.00333	.00597	.02907	-.00101
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX3 Acquired: 7/25/2017 11:32:27 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576-2	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}2	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.09429**	**50.526**	**-.00224**	**-.01939**	**.00122**
Stddev	.00446	.196	.00031	.00281	.00023
%RSD	4.7312	.38869	13.931	14.481	19.257
#1	-.09745	50.387	-.00202	-.02137	.00138
#2	-.09114	50.665	-.00246	-.01740	.00105
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00444**	**95.822**	**-.00344**	**-.01365**	**-.00529**
Stddev	.00059	.043	.00036	.00149	.00905
%RSD	13.293	.04491	10.523	10.890	171.12
#1	.00402	95.852	-.00319	-.01259	.00111
#2	.00486	95.791	-.00370	-.01470	-.01169
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00092**	**.00007**	**.00249**	**.00413**	**-.00114**
Stddev	.00041	.00001	.00006	.00030	.00029
%RSD	44.041	11.294	2.4225	7.2756	25.655
#1	-.00121	.00008	.00245	.00392	-.00094
#2	-.00064	.00007	.00254	.00434	-.00135
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX3 Acquired: 7/25/2017 11:32:27 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00116
Stddev	.00017
%RSD	14.325
#1	.00104
#2	.00128
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3762.7	2450.3	17378.	3322.2
Stddev	2.3	2.6	75.	2.5
%RSD	.06092	.10460	.42896	.07440
#1	3761.1	2448.5	17431.	3320.4
#2	3764.3	2452.2	17326.	3323.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	100.34%	101.99%	100.40%	102.65%
Range				

Sample Name: ICEX4 Acquired: 7/25/2017 11:38:53 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00069**	**-.07492**	**-.00978**	**-.00283**	**.00011**
Stddev	.00022	.02372	.00098	.00033	.00001
%RSD	32.097	31.658	9.9922	11.681	10.818
#1	-.00053	-.05814	-.00909	-.00259	.00012
#2	-.00084	-.09169	-.01048	-.00306	.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00005**	**.00759**	**.00021**	**.0041**	**19.564**
Stddev	.00007	.00342	.00021	.0118	.001
%RSD	149.46	45.026	99.783	285.4	.00325
#1	-.00009	.00517	.00035	-.0042	19.564
#2	.00000	.01000	.00006	.0125	19.564
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.662**	**.00782**	**.00365**	**-.02061**	**-.00183**
Stddev	.016	.00035	.00150	.00753	.00011
%RSD	.15209	4.4689	41.173	36.523	6.1366
#1	10.651	.00807	.00471	-.02593	-.00191
#2	10.674	.00757	.00259	-.01529	-.00175
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX4 Acquired: 7/25/2017 11:38:53 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.01298**	**.00057**	**.00012**	**.00304**	**-.00349**
Stddev	.00090	.00013	.00003	.01015	.00013
%RSD	6.8981	22.349	29.306	334.50	3.5957
#1	-.01235	.00066	.00014	.01021	-.00358
#2	-.01362	.00048	.00009	-.00414	-.00340
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00398**	**.01034**	**.01143**	**-.00347**	**-.03592**
Stddev	.00070	.00039	.00068	.00191	.00007
%RSD	17.544	3.7549	5.9340	55.131	.20376
#1	-.00348	.01061	.01095	-.00482	-.03587
#2	-.00447	.01006	.01191	-.00212	-.03597
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00079**	**.00009**	**-.00064**	**-.00506**	**-.00032**
Stddev	.00089	.00003	.00018	.00018	.00061
%RSD	112.54	31.546	28.365	3.4635	192.57
#1	-.00016	.00007	-.00077	-.00518	-.00075
#2	-.00142	.00011	-.00051	-.00493	.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX4 Acquired: 7/25/2017 11:38:53 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.00143**
Stddev	.00036
%RSD	25.502
#1	.00168
#2	.00117
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3807.5**	**2432.5**	**17491.**	**3340.4**
Stddev	2.7	1.4	43.	10.1
%RSD	.07202	.05656	.24367	.30367
#1	3805.6	2433.5	17461.	3347.6
#2	3809.5	2431.5	17521.	3333.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	101.54%	101.25%	101.05%	103.21%
Range				

Sample Name: ICEX5 Acquired: 7/25/2017 11:42:20 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00032**	**.07479**	**.00090**	**-.01388**	**-.00002**
Stddev	.00110	.00421	.00080	.00072	.00001
%RSD	345.61	5.6309	88.799	5.2172	59.036
#1	.00109	.07182	.00146	-.01337	-.00003
#2	-.00046	.07777	.00033	-.01439	-.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00012**	**.00419**	**-.00012**	**.0064**	**-.00008**
Stddev	.00006	.00155	.00002	.0098	.00021
%RSD	49.253	36.915	19.957	152.8	252.13
#1	-.00008	.00309	-.00010	.0133	.00006
#2	-.00016	.00528	-.00014	-.0005	-.00023
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00040**	**-.00198**	**-.00009**	**.02795**	**.00196**
Stddev	.00029	.00066	.00403	.00282	.00098
%RSD	72.147	33.109	4262.0	10.077	49.647
#1	.00020	-.00152	.00275	.02595	.00127
#2	.00061	-.00245	-.00294	.02994	.00265
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX5 Acquired: 7/25/2017 11:42:20 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.08035**	**.00065**	**5.1240**	**.00141**	**.00018**
Stddev	.00332	.00005	.0073	.00946	.00022
%RSD	4.1321	7.5618	.14245	672.87	120.16
#1	-.08270	.00069	5.1188	.00810	.00003
#2	-.07801	.00062	5.1291	-.00529	.00034
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**-.01357**	**.00141**	**-.00016**	**-.01906**
Stddev	.00030	.00014	.00064	.00052	.00760
%RSD	743.52	1.0192	45.196	324.70	39.851
#1	.00017	-.01367	.00096	.00021	-.01369
#2	-.00025	-.01347	.00186	-.00053	-.02443
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00043**	**.00004**	**.00012**	**.00102**	**-.00419**
Stddev	.00022	.00008	.00043	.00016	.00002
%RSD	51.917	185.64	359.17	15.596	.44467
#1	-.00059	.00010	.00042	.00113	-.00418
#2	-.00027	-.00001	-.00018	.00091	-.00420
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX5 Acquired: 7/25/2017 11:42:20 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00068
Stddev	.00001
%RSD	1.5650
#1	.00067
#2	.00069
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3795.1	2453.3	17421.	3335.5
Stddev	6.2	5.2	108.	7.8
%RSD	.16229	.21069	.61968	.23483
#1	3790.7	2449.6	17345.	3330.0
#2	3799.4	2456.9	17498.	3341.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	101.21%	102.11%	100.65%	103.06%
Range				

Sample Name: CCV-4147885 Acquired: 7/25/2017 11:45:47 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50634**	**24.764**	**.49968**	**.49259**	**.48176**
Stddev	.00054	.193	.00079	.00082	.00042
%RSD	.10710	.78006	.15901	.16685	.08634
#1	.50596	24.627	.49912	.49201	.48147
#2	.50672	24.900	.50024	.49317	.48206
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49072**	**24.395**	**.49273**	**-.0211**	**.48605**
Stddev	.00393	.206	.00048	.0062	.00020
%RSD	.80044	.84368	.09687	29.50	.04062
#1	.48794	24.250	.49239	-.0256	.48619
#2	.49350	24.541	.49306	-.0167	.48591
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51994**	**.48663**	**23.725**	**23.818**	**.48725**
Stddev	.00238	.00044	.205	.211	.00303
%RSD	.45832	.09082	.86440	.88414	.62219
#1	.51825	.48632	23.580	23.669	.48511
#2	.52162	.48694	23.870	23.967	.48939
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4147885 Acquired: 7/25/2017 11:45:47 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.770**	**.50517**	**.50190**	**24.039**	**.49165**
Stddev	.002	.00140	.00054	.181	.00098
%RSD	.00985	.27802	.10787	.75323	.20011
#1	24.772	.50417	.50151	23.911	.49095
#2	24.768	.50616	.50228	24.167	.49235
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49516**	**24.379**	**.48771**	**.49687**	**23.784**
Stddev	.00116	.082	.00219	.00054	.184
%RSD	.23460	.33706	.44869	.10964	.77484
#1	.49598	24.321	.48926	.49725	23.653
#2	.49433	24.437	.48616	.49648	23.914
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49822**	**.48805**	**.50580**	**.50319**	**.51013**
Stddev	.00135	.00222	.00035	.00093	.00326
%RSD	.27143	.45398	.07005	.18470	.63971
#1	.49727	.48648	.50555	.50385	.50782
#2	.49918	.48961	.50605	.50253	.51243
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4147885 Acquired: 7/25/2017 11:45:47 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.51007
Stddev	.00078
%RSD	.15333
#1	.50952
#2	.51063
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3450.6	2397.7	16791.	3324.4
Stddev	3.4	.0	8.	28.8
%RSD	.09833	.00083	.04475	.86665
#1	3448.2	2397.7	16797.	3344.7
#2	3453.0	2397.8	16786.	3304.0

Sample Name: CCB-4130963 Acquired: 7/25/2017 11:49:00 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00053**	**.00765**	**.00073**	**-.00034**	**.00003**
Stddev	.00014	.00348	.00042	.00002	.00001
%RSD	26.388	45.476	57.891	6.3019	17.869
#1	-.00043	.00519	.00043	-.00033	.00004
#2	-.00062	.01011	.00103	-.00036	.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00002**	**.00313**	**-.00010**	**.0144**	**.00006**
Stddev	.00008	.00516	.00007	.0064	.00004
%RSD	499.98	164.74	74.518	44.14	70.903
#1	.00004	.00679	-.00015	.0099	.00003
#2	-.00008	-.00052	-.00005	.0189	.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00000**	**.00151**	**.00452**	**.03032**	**-.00132**
Stddev	.00081	.00067	.00160	.07027	.00072
%RSD	61573.	44.282	35.431	231.76	54.608
#1	-.00057	.00198	.00339	.08000	-.00081
#2	.00057	.00104	.00566	-.01937	-.00183
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4130963 Acquired: 7/25/2017 11:49:00 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00486**	**.00017**	**.00037**	**-.01139**	**.00042**
Stddev	.00208	.00018	.00018	.00446	.00018
%RSD	42.714	106.65	49.071	39.177	43.575
#1	-.00633	.00030	.00024	-.00824	.00029
#2	-.00339	.00004	.00050	-.01455	.00055
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00151**	**.00196**	**.00090**	**-.00196**	**.00188**
Stddev	.00073	.00117	.00167	.00227	.00088
%RSD	48.277	59.910	185.95	115.38	47.092
#1	-.00100	.00279	.00208	-.00036	.00125
#2	-.00203	.00113	-.00028	-.00357	.00250
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00039**	**.00013**	**.00004**	**.00132**	**.00049**
Stddev	.00071	.00002	.00013	.00130	.00051
%RSD	182.57	12.689	308.60	97.778	104.73
#1	-.00090	.00015	-.00005	.00224	.00013
#2	.00011	.00012	.00013	.00041	.00085
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4130963 Acquired: 7/25/2017 11:49:00 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.00059
Stddev	.00005
%RSD	8.9144
#1	.00056
#2	.00063
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3771.8	2425.4	17304.	3319.3
Stddev	1.5	3.9	89.	35.1
%RSD	.04002	.15906	.51640	1.0577
#1	3772.8	2428.1	17240.	3294.5
#2	3770.7	2422.7	17367.	3344.1

Sample Name: CCVL-4147888 Acquired: 7/25/2017 12:00:06 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00638**	**.22121**	**.01304**	**.01868**	**.00204**
Stddev	.00083	.02060	.00155	.00026	.00003
%RSD	13.011	9.3115	11.914	1.3869	1.4892
#1	.00696	.20664	.01414	.01850	.00202
#2	.00579	.23577	.01194	.01886	.00207
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00203**	**.49079**	**.00197**	**.0115**	**.00389**
Stddev	.00002	.00396	.00001	.0162	.00014
%RSD	.96376	.80768	.52134	140.5	3.5333
#1	.00202	.48798	.00198	.0001	.00399
#2	.00204	.49359	.00196	.0230	.00379
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00384**	**.00938**	**.05097**	**.48124**	**.02942**
Stddev	.00013	.00039	.00106	.00106	.00099
%RSD	3.4892	4.1967	2.0727	.21983	3.3761
#1	.00375	.00966	.05022	.48199	.02872
#2	.00394	.00910	.05172	.48050	.03012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4147888 Acquired: 7/25/2017 12:00:06 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19282**	**.00317**	**.01034**	**.97600**	**.00980**
Stddev	.00176	.00002	.00006	.00156	.00004
%RSD	.91522	.75412	.57300	.15956	.41803
#1	.19157	.00315	.01029	.97710	.00977
#2	.19406	.00319	.01038	.97490	.00983
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00839**	**.19047**	**.02058**	**.02435**	**.50660**
Stddev	.00057	.00244	.00112	.00115	.00226
%RSD	6.7947	1.2826	5.4517	4.7335	.44570
#1	.00799	.19220	.02137	.02353	.50500
#2	.00880	.18875	.01978	.02516	.50819
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00885**	**.00491**	**.00518**	**.02122**	**.00521**
Stddev	.00012	.00007	.00070	.00022	.00023
%RSD	1.3100	1.4741	13.495	1.0207	4.4867
#1	.00893	.00486	.00468	.02137	.00505
#2	.00876	.00496	.00567	.02107	.00538
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4147888 Acquired: 7/25/2017 12:00:06 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.01088
Stddev	.00016
%RSD	1.5101
#1	.01099
#2	.01076
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3800.8	2448.6	17471.	3337.7
Stddev	4.5	2.9	42.	7.3
%RSD	.11763	.12034	.23905	.21734
#1	3797.7	2446.5	17501.	3342.9
#2	3804.0	2450.7	17442.	3332.6

Sample Name: 480-121460-a-1-a Acquired: 7/25/2017 12:03:33 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00084**	**.95624**	**.00121**	**.28163**	**1.9654**
Stddev	.00088	.00072	.00079	.00132	.0067
%RSD	105.29	.07528	64.860	.46985	.33932
#1	-.00021	.95674	.00066	.28070	1.9606
#2	-.00146	.95573	.00177	.28257	1.9701
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**205.88**	**.00025**	**-.0103**	**.00347**
Stddev	.00000	.69	.00005	.0403	.00006
%RSD	13.935	.33725	18.440	390.3	1.6463
#1	.00003	205.39	.00028	-.0388	.00351
#2	.00003	206.38	.00021	.0182	.00342
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00277**	**.00988**	**4.1838**	**4.2190**	**.02275**
Stddev	.00015	.00074	.0172	.0013	.00101
%RSD	5.5728	7.4882	.41104	.03018	4.4246
#1	.00266	.00936	4.1717	4.2199	.02347
#2	.00288	.01040	4.1960	4.2181	.02204
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121460-a-1-a Acquired: 7/25/2017 12:03:33 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**57.050**	**7.5832**	**.00001**	**116.12**	**.02761**
Stddev	.254	.0068	.00010	.11	.00019
%RSD	.44550	.08921	822.76	.09689	.70362
#1	57.230	7.5880	-.00006	116.04	.02774
#2	56.870	7.5784	.00008	116.20	.02747
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00317**	**2.4282**	**-.00060**	**-.00494**	**9.3116**
Stddev	.00027	.0040	.00066	.00034	.0217
%RSD	8.3812	.16554	110.37	6.8607	.23298
#1	.00335	2.4254	-.00107	-.00470	9.3270
#2	.00298	2.4310	-.00013	-.00518	9.2963
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00095**	**.30853**	**.01772**	**-.00024**	**.00147**
Stddev	.00003	.00003	.00152	.00139	.00029
%RSD	3.5250	.01035	8.5566	565.91	19.987
#1	.00092	.30851	.01665	-.00122	.00127
#2	.00097	.30856	.01879	.00073	.00168
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121460-a-1-a Acquired: 7/25/2017 12:03:33 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**3.8985**
Stddev	.0035
%RSD	.09003
#1	3.8960
#2	3.9009
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3186.8**	**2294.8**	**16378.**	**3351.9**
Stddev	5.0	1.3	13.	2.5
%RSD	.15626	.05643	.08221	.07338
#1	3190.3	2295.7	16368.	3353.7
#2	3183.2	2293.9	16387.	3350.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	84.983%	95.517%	94.624%	103.57%
Range				

Sample Name: 480-121460-a-1-aSD@5 Acquired: 7/25/2017 12:07:06 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00074**	**.20355**	**.00225**	**.05703**	**.40071**
Stddev	.00030	.01381	.00033	.00010	.00142
%RSD	40.195	6.7835	14.667	.18143	.35358
#1	-.00095	.19378	.00248	.05695	.39971
#2	-.00053	.21331	.00201	.05710	.40171
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	**41.361**	**-.00013**	**.0212**	**.00067**
Stddev	.00002	.129	.00009	.0145	.00011
%RSD	95.384	.31160	67.117	68.28	16.612
#1	.00001	41.452	-.00019	.0110	.00059
#2	.00003	41.270	-.00007	.0315	.00075
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00019**	**.00255**	**.85660**	**.83605**	**.00431**
Stddev	.00027	.00152	.00776	.00196	.00204
%RSD	136.65	59.377	.90558	.23391	47.264
#1	.00001	.00148	.86209	.83467	.00575
#2	.00038	.00362	.85112	.83743	.00287
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121460-a-1-aSD@5 Acquired: 7/25/2017 12:07:06 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**11.472**	**1.5755**	**-.00002**	**23.696**	**.00532**
Stddev	.005	.0017	.00004	.032	.00035
%RSD	.04181	.10532	183.06	.13591	6.4860
#1	11.469	1.5743	.00001	23.719	.00557
#2	11.476	1.5767	-.00005	23.673	.00508
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00098**	**.45701**	**.00047**	**-.00481**	**1.8654**
Stddev	.00062	.00122	.00042	.00322	.0195
%RSD	63.445	.26638	89.225	67.029	1.0446
#1	.00143	.45615	.00017	-.00709	1.8792
#2	.00054	.45787	.00077	-.00253	1.8516
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00011**	**.06230**	**.00318**	**.00054**	**-.00003**
Stddev	.00027	.00021	.00050	.00108	.00071
%RSD	257.49	.34475	15.601	199.38	2529.9
#1	-.00009	.06245	.00283	.00130	.00047
#2	.00030	.06215	.00353	-.00022	-.00053
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121460-a-1-aSD@5 Acquired: 7/25/2017 12:07:06 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.80251
Stddev	.00074
%RSD	.09197
#1	.80199
#2	.80303
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3533.9	2385.5	16934.	3332.7
Stddev	1.8	3.9	17.	17.3
%RSD	.05020	.16546	.10191	.51839
#1	3535.2	2388.3	16922.	3320.5
#2	3532.7	2382.7	16946.	3344.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	94.241%	99.290%	97.836%	102.98%
Range				

Sample Name: 480-121460-a-1-a PDS Acquired: 7/25/2017 12:10:30 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05146**	**11.040**	**.21282**	**.47911**	**2.1212**
Stddev	.00074	.102	.00045	.00020	.0106
%RSD	1.4305	.92379	.20993	.04234	.49913
#1	.05198	10.968	.21251	.47897	2.1137
#2	.05094	11.112	.21314	.47925	2.1287
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20212**	**209.99**	**.20956**	**-.0101**	**.20215**
Stddev	.00034	.56	.00000	.0362	.00017
%RSD	.16837	.26598	.00129	359.1	.08190
#1	.20188	209.59	.20956	-.0357	.20227
#2	.20236	210.38	.20956	.0155	.20204
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21067**	**.20909**	**14.078**	**14.010**	**.22381**
Stddev	.00063	.00012	.057	.025	.00074
%RSD	.29960	.05795	.40599	.17493	.33145
#1	.21112	.20918	14.038	13.993	.22434
#2	.21022	.20901	14.118	14.027	.22329
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121460-a-1-a PDS Acquired: 7/25/2017 12:10:30 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**65.854**	**7.5813**	**.20019**	**123.17**	**.22706**
Stddev	.103	.0369	.00023	.90	.00024
%RSD	.15666	.48609	.11285	.73164	.10544
#1	65.781	7.6074	.20035	122.53	.22689
#2	65.927	7.5552	.20003	123.80	.22723
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21385**	**12.258**	**.20890**	**.20714**	**20.767**
Stddev	.00143	.003	.00037	.00266	.015
%RSD	.67040	.02829	.17645	1.2832	.07296
#1	.21486	12.256	.20916	.20902	20.756
#2	.21284	12.261	.20864	.20526	20.777
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20826**	**.50074**	**.22231**	**.20572**	**.20961**
Stddev	.00070	.00186	.00226	.00023	.00028
%RSD	.33391	.37191	1.0170	.11315	.13266
#1	.20777	.49942	.22071	.20588	.20941
#2	.20875	.50205	.22391	.20555	.20980
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121460-a-1-a PDS Acquired: 7/25/2017 12:10:30 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**3.9779**
Stddev	.0026
%RSD	.06501
#1	3.9760
#2	3.9797
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3133.0**	**2296.8**	**16328.**	**3333.8**
Stddev	.1	.3	34.	10.4
%RSD	.00267	.01311	.20555	.31217
#1	3133.0	2296.6	16352.	3326.4
#2	3132.9	2297.0	16304.	3341.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	83.548%	95.598%	94.337%	103.01%
Range				

Sample Name: 480-121460-a-1-b ms Acquired: 7/25/2017 12:13:56 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05196**	**11.520**	**.21540**	**.49408**	**2.2120**
Stddev	.00003	.047	.00109	.00134	.0052
%RSD	.05699	.40708	.50405	.27027	.23434
#1	.05198	11.486	.21463	.49313	2.2157
#2	.05194	11.553	.21617	.49502	2.2083
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20224**	**219.66**	**.21022**	**-.0319**	**.20352**
Stddev	.00015	.34	.00016	.0048	.00002
%RSD	.07609	.15274	.07725	14.92	.01114
#1	.20214	219.89	.21033	-.0285	.20351
#2	.20235	219.42	.21010	-.0352	.20354
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21228**	**.21186**	**14.304**	**14.239**	**.22390**
Stddev	.00062	.00045	.050	.047	.00099
%RSD	.28982	.21292	.34758	.32830	.44050
#1	.21272	.21218	14.339	14.206	.22320
#2	.21185	.21155	14.269	14.272	.22460
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121460-a-1-b ms Acquired: 7/25/2017 12:13:56 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**68.802**	**7.9523**	**.20089**	**128.88**	**.22979**
Stddev	.113	.0262	.00068	.15	.00030
%RSD	.16439	.32967	.33933	.11923	.12961
#1	68.722	7.9708	.20041	128.77	.23000
#2	68.882	7.9337	.20137	128.99	.22958
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21695**	**13.020**	**.20994**	**.20882**	**20.193**
Stddev	.00026	.033	.00057	.00017	.069
%RSD	.11871	.25293	.27181	.08356	.34403
#1	.21713	12.997	.21035	.20894	20.242
#2	.21677	13.043	.20954	.20870	20.144
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21122**	**.51683**	**.22335**	**.20497**	**.21149**
Stddev	.00038	.00137	.00156	.00089	.00174
%RSD	.18195	.26434	.69768	.43275	.82160
#1	.21095	.51586	.22225	.20559	.21026
#2	.21150	.51780	.22446	.20434	.21272
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121460-a-1-b ms Acquired: 7/25/2017 12:13:56 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**4.1871**
Stddev	.0047
%RSD	.11315
#1	4.1905
#2	4.1838
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3113.9**	**2289.2**	**16231.**	**3350.9**
Stddev	.9	4.8	43.	2.6
%RSD	.02846	.20789	.26694	.07774
#1	3114.5	2292.6	16201.	3349.1
#2	3113.3	2285.9	16262.	3352.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	83.041%	95.284%	93.776%	103.54%
Range				

Sample Name: 480-121460-a-1-c msd Acquired: 7/25/2017 12:17:23 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05269**	**11.491**	**.21553**	**.49216**	**2.2168**
Stddev	.00054	.004	.00118	.00197	.0050
%RSD	1.0255	.03531	.54831	.40003	.22787
#1	.05307	11.488	.21470	.49077	2.2132
#2	.05231	11.494	.21637	.49355	2.2204
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20317**	**218.44**	**.21149**	**-.0245**	**.20532**
Stddev	.00079	.07	.00054	.0153	.00004
%RSD	.38773	.03278	.25549	62.71	.01749
#1	.20261	218.39	.21111	-.0136	.20529
#2	.20372	218.49	.21188	-.0353	.20534
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21241**	**.21437**	**14.287**	**14.323**	**.22490**
Stddev	.00157	.00096	.014	.037	.00015
%RSD	.73683	.44986	.09629	.26158	.06597
#1	.21130	.21368	14.296	14.296	.22501
#2	.21351	.21505	14.277	14.349	.22480
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121460-a-1-c msd Acquired: 7/25/2017 12:17:23 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**68.991**	**7.9603**	**.20157**	**128.39**	**.23127**
Stddev	.025	.0566	.00023	.41	.00030
%RSD	.03622	.71139	.11249	.32035	.12855
#1	69.009	8.0004	.20173	128.69	.23106
#2	68.974	7.9203	.20141	128.10	.23148
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21957**	**13.064**	**.21130**	**.20372**	**20.013**
Stddev	.00042	.005	.00326	.00155	.012
%RSD	.19212	.03471	1.5407	.76247	.06112
#1	.21927	13.061	.20900	.20262	20.022
#2	.21987	13.067	.21360	.20482	20.005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21308**	**.51526**	**.22415**	**.20658**	**.21435**
Stddev	.00161	.00112	.00091	.00103	.00055
%RSD	.75410	.21679	.40644	.50068	.25803
#1	.21195	.51447	.22480	.20731	.21395
#2	.21422	.51605	.22351	.20585	.21474
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121460-a-1-c msd Acquired: 7/25/2017 12:17:23 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**4.2664**
Stddev	.0037
%RSD	.08546
#1	4.2690
#2	4.2639
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3109.6**	**2289.5**	**16228.**	**3352.1**
Stddev	.1	.1	20.	2.5
%RSD	.00248	.00596	.12536	.07449
#1	3109.5	2289.6	16214.	3353.8
#2	3109.6	2289.4	16243.	3350.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	82.925%	95.294%	93.759%	103.57%
Range				

Sample Name: 480-121460-a-2-a Acquired: 7/25/2017 12:20:50 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00093**	**.09269**	**.00310**	**.29162**	**.97259**
Stddev	.00065	.01570	.00201	.00101	.00014
%RSD	69.332	16.941	64.628	.34518	.01425
#1	-.00048	.08158	.00169	.29091	.97268
#2	-.00139	.10379	.00452	.29233	.97249
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**216.14**	**.00013**	**-.0045**	**.00481**
Stddev	.00006	1.03	.00019	.0160	.00002
%RSD	217.53	.47769	146.20	352.6	.37368
#1	-.00001	216.87	.00026	.0068	.00482
#2	.00007	215.41	-.00000	-.0159	.00480
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00090**	**-.00024**	**3.4549**	**2.8241**	**.00989**
Stddev	.00012	.00033	.0022	.0175	.00189
%RSD	13.838	138.03	.06275	.62039	19.135
#1	.00081	-.00047	3.4534	2.8118	.01123
#2	.00099	-.00001	3.4565	2.8365	.00855
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121460-a-2-a Acquired: 7/25/2017 12:20:50 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**53.933**	**7.1988**	**-.00044**	**141.94**	**.03142**
Stddev	.141	.0011	.00007	.12	.00087
%RSD	.26183	.01494	16.630	.08796	2.7724
#1	53.833	7.1996	-.00049	142.03	.03080
#2	54.033	7.1980	-.00039	141.85	.03204
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00178**	**1.8471**	**-.00208**	**-.00344**	**7.4091**
Stddev	.00051	.0107	.00048	.00207	.0162
%RSD	28.430	.57762	22.907	60.104	.21839
#1	.00214	1.8396	-.00175	-.00490	7.4205
#2	.00142	1.8547	-.00242	-.00198	7.3976
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00105**	**.34806**	**.00249**	**.00017**	**-.00053**
Stddev	.00042	.00239	.00021	.00320	.00024
%RSD	39.614	.68733	8.2909	1884.4	44.611
#1	.00076	.34975	.00234	.00243	-.00036
#2	.00135	.34637	.00264	-.00209	-.00070
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121460-a-2-a Acquired: 7/25/2017 12:20:50 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.48019**
Stddev	.00015
%RSD	.03189
#1	.48030
#2	.48008
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3160.7**	**2276.9**	**16252.**	**3328.2**
Stddev	8.0	7.9	119.	23.5
%RSD	.25288	.34885	.73122	.70519
#1	3166.3	2282.5	16336.	3311.6
#2	3155.0	2271.3	16168.	3344.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	84.288%	94.770%	93.897%	102.84%
Range				

Sample Name: 480-121460-a-3-a Acquired: 7/25/2017 12:24:18 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00103**	**.11421**	**.00112**	**.30712**	**1.0020**
Stddev	.00051	.00676	.00210	.00009	.0038
%RSD	49.196	5.9171	188.18	.02914	.37517
#1	-.00139	.11899	-.00037	.30718	1.0047
#2	-.00067	.10943	.00261	.30706	.99938
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**224.18**	**.00034**	**-.0156**	**.00496**
Stddev	.00011	.72	.00016	.0017	.00001
%RSD	1190.6	.32092	47.004	10.95	.24477
#1	.00007	224.69	.00045	-.0144	.00497
#2	-.00009	223.67	.00023	-.0168	.00495
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00137**	**.00109**	**3.5218**	**2.8109**	**.01001**
Stddev	.00030	.00024	.0176	.0329	.00155
%RSD	21.612	22.279	.50078	1.1689	15.489
#1	.00158	.00092	3.5343	2.7877	.00891
#2	.00116	.00126	3.5093	2.8341	.01110
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121460-a-3-a Acquired: 7/25/2017 12:24:18 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**55.663**	**7.3463**	**-.00035**	**149.89**	**.03324**
Stddev	.271	.0628	.00001	1.07	.00032
%RSD	.48628	.85461	3.4651	.71253	.97253
#1	55.472	7.3019	-.00034	150.65	.03347
#2	55.854	7.3907	-.00036	149.14	.03301
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00125**	**1.9131**	**-.00104**	**-.00614**	**7.6573**
Stddev	.00027	.0015	.00073	.00141	.0111
%RSD	21.591	.07850	70.363	22.907	.14484
#1	.00106	1.9141	-.00052	-.00515	7.6495
#2	.00144	1.9120	-.00155	-.00714	7.6651
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00127**	**.36200**	**.00292**	**.00184**	**.00029**
Stddev	.00024	.00137	.00019	.00023	.00027
%RSD	18.775	.37895	6.3955	12.249	95.131
#1	.00110	.36297	.00279	.00200	.00009
#2	.00144	.36103	.00305	.00168	.00048
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121460-a-3-a Acquired: 7/25/2017 12:24:18 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.52989**
Stddev	.00300
%RSD	.56527
#1	.52777
#2	.53201
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3138.0**	**2263.9**	**16275.**	**3325.2**
Stddev	3.1	2.8	137.	3.0
%RSD	.09907	.12550	.84163	.08954
#1	3140.2	2265.9	16372.	3327.3
#2	3135.8	2261.9	16178.	3323.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	83.683%	94.230%	94.028%	102.74%
Range				

Sample Name: BLANK Acquired: 7/25/2017 12:27:53 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00005**	**.00142**	**-.00173**	**.00201**	**.00177**
Stddev	.00090	.01759	.00067	.00011	.00000
%RSD	1965.2	1234.1	38.624	5.7128	.12793
#1	-.00059	-.01101	-.00220	.00193	.00177
#2	.00068	.01386	-.00126	.00209	.00177
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00005**	**.01403**	**.00048**	**.0159**	**-.00041**
Stddev	.00010	.00142	.00021	.0186	.00007
%RSD	176.77	10.101	43.536	116.6	18.314
#1	.00001	.01503	.00033	.0028	-.00046
#2	-.00012	.01303	.00063	.0291	-.00035
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00050**	**.00095**	**.00403**	**.00223**	**.00084**
Stddev	.00026	.00021	.00016	.00898	.00042
%RSD	51.416	22.063	3.9130	402.90	50.631
#1	.00032	.00081	.00392	-.00412	.00054
#2	.00069	.00110	.00414	.00857	.00114
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: BLANK Acquired: 7/25/2017 12:27:53 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00777**	**.00021**	**.00034**	**.03487**	**-.00040**
Stddev	.00021	.00012	.00022	.01704	.00001
%RSD	2.7469	56.351	65.607	48.870	1.8038
#1	-.00762	.00013	.00018	.04692	-.00041
#2	-.00792	.00030	.00050	.02282	-.00040
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00030**	**-.00804**	**.00243**	**.00174**	**.02637**
Stddev	.00020	.00063	.00053	.00259	.00665
%RSD	66.417	7.8890	21.997	149.18	25.238
#1	.00016	-.00759	.00280	-.00010	.02166
#2	.00044	-.00849	.00205	.00357	.03107
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00090**	**.00079**	**-.00001**	**-.00338**	**-.00027**
Stddev	.00028	.00003	.00049	.00064	.00022
%RSD	30.858	4.1249	4312.0	19.013	78.965
#1	.00070	.00077	.00034	-.00384	-.00043
#2	.00110	.00082	-.00036	-.00293	-.00012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: BLANK Acquired: 7/25/2017 12:27:53 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00298
Stddev	.00009
%RSD	2.9564
#1	.00291
#2	.00304
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3519.7	2133.1	16140.	3234.8
Stddev	5.5	8.4	22.	.4
%RSD	.15678	.39590	.13636	.01302
#1	3515.8	2127.1	16125.	3235.1
#2	3523.6	2139.1	16156.	3234.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	93.861%	88.786%	93.250%	99.951%
Range				

Sample Name: BLANK Acquired: 7/25/2017 12:31:21 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00013**	**.00598**	**-.00098**	**.00036**	**.00006**
Stddev	.00009	.00872	.00068	.00022	.00002
%RSD	68.643	145.93	69.353	60.421	35.707
#1	.00006	.01215	-.00146	.00051	.00008
#2	.00019	-.00019	-.00050	.00021	.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**.01879**	**-.00003**	**-.0121**	**-.00021**
Stddev	.00009	.00183	.00012	.0100	.00006
%RSD	1679.9	9.7215	343.78	82.35	30.875
#1	-.00007	.02008	-.00012	-.0192	-.00025
#2	.00006	.01750	.00005	-.0051	-.00016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00079**	**.00132**	**.01050**	**-.01861**	**-.00125**
Stddev	.00027	.00001	.00075	.01851	.00098
%RSD	33.714	.58845	7.1195	99.469	78.562
#1	.00097	.00133	.00998	-.03170	-.00194
#2	.00060	.00132	.01103	-.00552	-.00056
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: BLANK Acquired: 7/25/2017 12:31:21 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00572**	**.00045**	**.00009**	**.01505**	**.00050**
Stddev	.00212	.00004	.00003	.00431	.00008
%RSD	37.025	9.0253	29.692	28.678	15.789
#1	-.00422	.00042	.00011	.01199	.00044
#2	-.00722	.00048	.00007	.01810	.00056
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**.00085**	**.00061**	**.00068**	**.01024**
Stddev	.00001	.00338	.00058	.00187	.00230
%RSD	21.295	396.05	95.169	275.56	22.474
#1	-.00004	.00325	.00101	-.00064	.01187
#2	-.00005	-.00154	.00020	.00200	.00862
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01665**	**.00006**	**.00015**	**-.00135**	**-.00005**
Stddev	.00009	.00012	.00010	.00102	.00043
%RSD	.54831	201.86	71.830	75.397	775.73
#1	.01671	.00015	.00022	-.00063	.00025
#2	.01659	-.00003	.00007	-.00207	-.00036
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: BLANK Acquired: 7/25/2017 12:31:21 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.00270**
Stddev	.00002
%RSD	.71310
#1	.00268
#2	.00271
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3695.8**	**2362.9**	**17053.**	**3278.0**
Stddev	1.6	2.2	2.	18.0
%RSD	.04321	.09438	.01122	.54992
#1	3694.7	2364.5	17052.	3290.7
#2	3697.0	2361.3	17054.	3265.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	98.559%	98.349%	98.524%	101.29%
Range				

Sample Name: CCV-4147885 Acquired: 7/25/2017 12:34:50 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50623**	**24.683**	**.50068**	**.48885**	**.47867**
Stddev	.00013	.131	.00255	.00008	.00098
%RSD	.02543	.53163	.50923	.01706	.20478
#1	.50614	24.590	.49887	.48891	.47936
#2	.50632	24.775	.50248	.48879	.47797
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.48754**	**24.387**	**.49085**	**-.0329**	**.48641**
Stddev	.00223	.037	.00030	.0085	.00138
%RSD	.45755	.15013	.06074	25.67	.28418
#1	.48596	24.361	.49064	-.0270	.48543
#2	.48911	24.413	.49106	-.0389	.48739
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.52327**	**.47970**	**23.595**	**23.547**	**.47967**
Stddev	.00067	.00206	.013	.046	.00230
%RSD	.12876	.42877	.05509	.19710	.47950
#1	.52374	.48116	23.585	23.514	.47804
#2	.52279	.47825	23.604	23.579	.48129
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4147885 Acquired: 7/25/2017 12:34:50 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.561**	**.50268**	**.50126**	**24.000**	**.49073**
Stddev	.041	.00010	.00036	.028	.00185
%RSD	.16869	.01894	.07106	.11461	.37665
#1	24.590	.50261	.50152	23.980	.48943
#2	24.531	.50274	.50101	24.019	.49204
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49244**	**24.210**	**.48565**	**.49343**	**23.819**
Stddev	.00062	.041	.00070	.00492	.067
%RSD	.12565	.17136	.14441	.99628	.28247
#1	.49288	24.181	.48615	.49690	23.771
#2	.49200	24.239	.48515	.48995	23.866
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49745**	**.48867**	**.50372**	**.50131**	**.50973**
Stddev	.00096	.00023	.00081	.00181	.00070
%RSD	.19333	.04771	.16115	.36044	.13651
#1	.49677	.48850	.50430	.50003	.51023
#2	.49813	.48883	.50315	.50259	.50924
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4147885 Acquired: 7/25/2017 12:34:50 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	**.50933**
Stddev	.00128
%RSD	.25185
#1	.51024
#2	.50842
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3450.2**	**2402.6**	**16873.**	**3339.0**
Stddev	9.5	2.4	15.	17.0
%RSD	.27633	.10031	.09136	.50947
#1	3456.9	2404.3	16884.	3351.1
#2	3443.5	2400.9	16862.	3327.0

Sample Name: CCB-4130963 Acquired: 7/25/2017 12:38:02 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00040**	**.01054**	**.00031**	**.00012**	**.00008**
Stddev	.00039	.01177	.00062	.00019	.00000
%RSD	98.501	111.73	204.78	163.00	3.9632
#1	-.00068	.01886	-.00014	.00025	.00008
#2	-.00012	.00221	.00075	-.00002	.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00003**	**.00279**	**-.00007**	**-.0114**	**.00002**
Stddev	.00007	.00594	.00015	.0072	.00004
%RSD	243.45	212.77	203.97	63.00	211.39
#1	.00002	-.00141	-.00018	-.0063	-.00001
#2	-.00008	.00699	.00003	-.0164	.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00035**	**.00035**	**.00377**	**.01967**	**-.00041**
Stddev	.00038	.00106	.00002	.06859	.00030
%RSD	108.31	300.75	.48144	348.78	74.341
#1	-.00063	.00110	.00375	-.02883	-.00019
#2	-.00008	-.00040	.00378	.06817	-.00062
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4130963 Acquired: 7/25/2017 12:38:02 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00313**	**.00015**	**.00021**	**.00145**	**.00062**
Stddev	.00283	.00006	.00014	.00656	.00002
%RSD	90.275	37.828	65.744	451.92	3.4987
#1	-.00513	.00019	.00011	.00609	.00064
#2	-.00113	.00011	.00030	-.00319	.00061
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00124**	**-.00058**	**.00043**	**-.00214**	**.02148**
Stddev	.00091	.00050	.00005	.00191	.00962
%RSD	73.290	86.444	12.124	88.970	44.804
#1	-.00188	-.00022	.00039	-.00349	.02829
#2	-.00060	-.00093	.00047	-.00079	.01468
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00032**	**.00014**	**.00067**	**.00060**	**.00035**
Stddev	.00069	.00003	.00002	.00129	.00074
%RSD	214.06	18.475	3.6132	215.79	208.99
#1	.00016	.00012	.00068	-.00031	-.00017
#2	-.00081	.00016	.00065	.00151	.00088
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4130963 Acquired: 7/25/2017 12:38:02 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.00019
Stddev	.00008
%RSD	45.394
#1	.00013
#2	.00025
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3753.2	2413.0	17157.	3301.0
Stddev	1.2	1.7	18.	13.7
%RSD	.03256	.07045	.10503	.41601
#1	3752.4	2411.8	17170.	3291.3
#2	3754.1	2414.2	17145.	3310.7

Sample Name: CCVL-4147888 Acquired: 7/25/2017 12:41:31 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00551**	**.20049**	**.01394**	**.01939**	**.00212**
Stddev	.00010	.00433	.00019	.00033	.00001
%RSD	1.8900	2.1602	1.3957	1.6940	.33088
#1	.00558	.20355	.01408	.01916	.00213
#2	.00544	.19743	.01381	.01963	.00212
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00209**	**.50413**	**.00196**	**-.0084**	**.00388**
Stddev	.00001	.00252	.00007	.0042	.00016
%RSD	.65628	.50036	3.3339	49.70	4.0489
#1	.00208	.50235	.00192	-.0054	.00376
#2	.00210	.50592	.00201	-.0113	.00399
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00417**	**.01083**	**.05165**	**.53552**	**.03007**
Stddev	.00002	.00024	.00090	.00329	.00068
%RSD	.42794	2.1731	1.7382	.61353	2.2694
#1	.00418	.01100	.05229	.53785	.02959
#2	.00416	.01067	.05102	.53320	.03055
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4147888 Acquired: 7/25/2017 12:41:31 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20486**	**.00360**	**.01027**	**.98107**	**.00997**
Stddev	.00003	.00011	.00019	.00064	.00017
%RSD	.01322	2.9965	1.8120	.06573	1.6924
#1	.20484	.00353	.01040	.98062	.00985
#2	.20488	.00368	.01014	.98153	.01008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00888**	**.19331**	**.01861**	**.02359**	**.50254**
Stddev	.00042	.00250	.00050	.00290	.00154
%RSD	4.7223	1.2953	2.6714	12.290	.30567
#1	.00859	.19508	.01825	.02154	.50145
#2	.00918	.19154	.01896	.02564	.50362
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00901**	**.00492**	**.00495**	**.01956**	**.00550**
Stddev	.00049	.00004	.00023	.00073	.00003
%RSD	5.4452	.75446	4.6413	3.7215	.57958
#1	.00936	.00494	.00479	.02008	.00547
#2	.00867	.00489	.00511	.01905	.00552
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4147888 Acquired: 7/25/2017 12:41:31 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.01126
Stddev	.00041
%RSD	3.6260
#1	.01155
#2	.01097
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3784.5	2444.4	17464.	3344.3
Stddev	5.5	.1	25.	11.6
%RSD	.14633	.00351	.14589	.34589
#1	3788.4	2444.5	17482.	3336.1
#2	3780.6	2444.4	17446.	3352.5

Sample Name: 480-121453-m-1-a@5 Acquired: 7/25/2017 12:44:59 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00382**	**.41958**	**.00724**	**.22111**	**.03814**
Stddev	.00073	.02162	.00085	.00091	.00004
%RSD	19.186	5.1528	11.695	.41119	.10204
#1	-.00433	.43487	.00664	.22047	.03817
#2	-.00330	.40429	.00784	.22175	.03811
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00007**	**50.355**	**.00018**	**-.2546**	**.00012**
Stddev	.00003	.141	.00006	.0368	.00006
%RSD	35.318	.27983	32.517	14.47	46.606
#1	.00009	50.454	.00022	-.2806	.00008
#2	.00006	50.255	.00014	-.2286	.00016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00281**	**.00437**	**1.5744**	**2.9523**	**-.00106**
Stddev	.00046	.00056	.0157	.0115	.00148
%RSD	16.311	12.839	.99844	.39069	140.41
#1	.00249	.00476	1.5855	2.9441	-.00211
#2	.00313	.00397	1.5632	2.9604	-.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121453-m-1-a@5 Acquired: 7/25/2017 12:44:59 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576-2	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}2	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**6.5040**	F **59.672**	**-.00232**	**38.042**	**.00289**
Stddev	.0398	.135	.00001	.176	.00015
%RSD	.61192	.22561	.60050	.46202	5.1961
#1	6.5322	59.767	-.00233	38.166	.00278
#2	6.4759	59.577	-.00231	37.917	.00299
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		45.000			
Low Limit		-.00300			

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00545**	**16.182**	**-.00407**	**-.01812**	**2.2446**
Stddev	.00005	.010	.00092	.00035	.0023
%RSD	.82634	.05938	22.609	1.9150	.10376
#1	.00542	16.188	-.00472	-.01787	2.2463
#2	.00548	16.175	-.00342	-.01836	2.2430
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00236**	**.16762**	**.01501**	**-.00084**	**.00171**
Stddev	.00028	.00082	.00119	.00159	.00052
%RSD	12.023	.49104	7.9362	188.62	30.277
#1	.00216	.16820	.01416	-.00197	.00208
#2	.00256	.16704	.01585	.00028	.00134
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121453-m-1-a@5 Acquired: 7/25/2017 12:44:59 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.04030**
Stddev	.00032
%RSD	.79269
#1	.04053
#2	.04007
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3455.6**	**2384.4**	**16664.**	**3314.3**
Stddev	9.0	6.7	18.	9.6
%RSD	.26132	.28071	.10603	.28974
#1	3449.2	2379.6	16677.	3321.0
#2	3462.0	2389.1	16652.	3307.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.152%	99.243%	96.278%	102.41%
Range				

Sample Name: 480-121453-m-2-a@5 Acquired: 7/25/2017 12:48:34 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	k **.02119**	k **1.3703**	k **.12039**	**2.2113**	**1.3604**
Stddev	.00028	.0096	.00185	.0032	.0049
%RSD	1.3414	.70178	1.5345	.14431	.35817
#1	k .02099	k 1.3635	k .11908	2.2090	1.3570
#2	k .02139	k 1.3771	k .12169	2.2135	1.3639
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	k **.00059**	**74.736**	k **.00314**	F **-2.467**	k **.00213**
Stddev	.00009	.168	.00010	.002	.00020
%RSD	15.522	.22447	3.1474	.0721	9.3145
#1	k .00053	74.617	k .00321	-2.468	k .00227
#2	k .00066	74.855	k .00307	-2.465	k .00199
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				3.000	
Low Limit				-.5000	

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	k **.11294**	k **.01681**	**3.8611**	**18.808**	**.00213**
Stddev	.00172	.00037	.0119	.086	.00019
%RSD	1.5267	2.2097	.30857	.45642	8.9317
#1	k .11172	k .01655	3.8526	18.748	.00227
#2	k .11416	k .01708	3.8695	18.869	.00200
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121453-m-2-a@5 Acquired: 7/25/2017 12:48:34 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	k **14.639**	^ *****	F **-.02526**	**247.03**	**.01306**
Stddev	.011	-----	.00020	1.22	.00023
%RSD	.07706	-----	.79696	.49520	1.7330
#1	k 14.647	^ -----	-.02511	246.16	.01290
#2	k 14.631	^ -----	-.02540	247.89	.01322
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			4.5000		
Low Limit			-.01000		

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	k **.06016**	**60.580**	kF **-.02739**	k **.25199**	**4.2428**
Stddev	.00092	.008	.00066	.00124	.0081
%RSD	1.5222	.01351	2.4232	.49100	.18987
#1	k .05951	60.575	k -.02692	k .25111	4.2485
#2	k .06080	60.586	k -.02786	k .25286	4.2371
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			9.0000		
Low Limit			-.02000		

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.07116**	**1.3371**	k **.09072**	k **.28190**	k **.06783**
Stddev	.00034	.0037	.00053	.00174	.00151
%RSD	.47919	.27997	.58313	.61845	2.2293
#1	.07092	1.3344	k .09110	k .28067	k .06676
#2	.07140	1.3397	k .09035	k .28313	k .06890
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121453-m-2-a@5 Acquired: 7/25/2017 12:48:34 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	k .00433
Stddev	.00074
%RSD	17.122
#1	k .00486
#2	k .00381
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3047.5	2363.9	16010.	3233.6
Stddev	.3	1.0	12.	2.9
%RSD	.00907	.04293	.07765	.09044
#1	3047.3	2363.2	16001.	3231.5
#2	3047.7	2364.6	16019.	3235.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	81.271%	98.390%	92.497%	99.914%
Range				

Sample Name: 480-121453-m-2-a@10 Acquired: 7/25/2017 12:52:17 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	k **.01104**	k **.74251**	k **.06528**	**1.2469**	**.73642**
Stddev	.00021	.00055	.00263	.0012	.00244
%RSD	1.8788	.07385	4.0278	.09771	.33192
#1	k .01119	k .74213	k .06342	1.2460	.73469
#2	k .01090	k .74290	k .06713	1.2477	.73815
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	k **.00034**	**40.978**	k **.00170**	F **-1.338**	k **.00124**
Stddev	.00012	.064	.00014	.004	.00003
%RSD	36.407	.15577	8.0606	.2764	2.3698
#1	k .00043	40.933	k .00179	-1.335	k .00126
#2	k .00025	41.023	k .00160	-1.340	k .00122
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				3.000	
Low Limit				-.5000	

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	k **.06325**	k **.01065**	**2.1368**	**10.131**	**.00059**
Stddev	.00062	.00018	.0139	.033	.00019
%RSD	.97503	1.6701	.65111	.32228	32.263
#1	k .06282	k .01077	2.1270	10.108	.00073
#2	k .06369	k .01052	2.1467	10.154	.00046
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121453-m-2-a@10 Acquired: 7/25/2017 12:52:17 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	k **8.2711**	^ *****	F **-.01440**	**133.54**	**.00727**
Stddev	.0454	-----	.00012	.89	.00017
%RSD	.54852	-----	.80254	.66937	2.3513
#1	k 8.2390	136.13	-.01448	132.91	.00715
#2	k 8.3031	^ -----	-.01432	134.17	.00740
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			4.5000		
Low Limit			-.01000		

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	k **.03418**	**33.481**	k **-.01517**	k **.14390**	**2.3027**
Stddev	.00017	.087	.00157	.00577	.0134
%RSD	.48840	.25910	10.326	4.0107	.58361
#1	k .03406	33.419	k -.01628	k .13982	2.2932
#2	k .03430	33.542	k -.01406	k .14798	2.3122
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.03749**	**.72451**	k **.04927**	k **.15333**	k **.03786**
Stddev	.00052	.00224	.00027	.00040	.00004
%RSD	1.3799	.30876	.55389	.26092	.10013
#1	.03713	.72293	k .04946	k .15361	k .03784
#2	.03786	.72609	k .04907	k .15305	k .03789
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121453-m-2-a@10 Acquired: 7/25/2017 12:52:17 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	k .00294
Stddev	.00006
%RSD	2.0056
#1	k .00298
#2	k .00290
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3214.7	2377.4	16349.	3280.6
Stddev	4.5	4.6	2.	3.0
%RSD	.13856	.19431	.01024	.09278
#1	3217.8	2380.7	16350.	3282.8
#2	3211.5	2374.2	16347.	3278.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	85.727%	98.954%	94.454%	101.37%
Range				

Sample Name: 480-121274-c-1-b Acquired: 7/25/2017 12:55:55 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00011	5.8290	.38882	10.613	.93155
Stddev	.00001	.0355	.00119	.013	.00476
%RSD	9.4482	.60832	.30672	.12147	.51129
#1	.00010	5.8540	.38967	10.604	.93492
#2	.00012	5.8039	.38798	10.622	.92819
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00033	108.22	.00055	-.0032	.04981
Stddev	.00002	.69	.00010	.0275	.00017
%RSD	6.6935	.63849	18.442	859.0	.34074
#1	.00034	108.71	.00048	-.0227	.04969
#2	.00031	107.73	.00062	.0163	.04993
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.32245	.04332	28.197	472.15	.25597
Stddev	.00164	.00000	.091	3.05	.00065
%RSD	.50877	.00159	.32289	.64612	.25509
#1	.32361	.04332	28.261	474.30	.25551
#2	.32129	.04332	28.133	469.99	.25643
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121274-c-1-b Acquired: 7/25/2017 12:55:55 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**87.038**	**1.8340**	**.03760**	**1678.8**	**.21672**
Stddev	.275	.0065	.00010	8.4	.00046
%RSD	.31622	.35417	.26956	.50153	.21040
#1	87.232	1.8386	.03752	1684.8	.21640
#2	86.843	1.8294	.03767	1672.9	.21704
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.03432**	**74.552**	**.02436**	**.00703**	**34.517**
Stddev	.00144	.010	.00047	.00051	.159
%RSD	4.2040	.01406	1.9136	7.2728	.46113
#1	.03534	74.559	.02469	.00667	34.629
#2	.03330	74.545	.02403	.00740	34.404
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05184**	**1.1970**	**.24810**	**-.00176**	**.08769**
Stddev	.00077	.0074	.00030	.00209	.00045
%RSD	1.4767	.62098	.11907	118.86	.51012
#1	.05130	1.2022	.24831	-.00028	.08737
#2	.05238	1.1917	.24790	-.00324	.08800
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121274-c-1-b Acquired: 7/25/2017 12:55:55 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.17992
Stddev	.00189
%RSD	1.0487
#1	.18126
#2	.17859
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2661.1	2113.6	14725.	3277.7
Stddev	5.8	5.0	7.	16.7
%RSD	.21837	.23515	.04569	.50891
#1	2665.2	2117.1	14720.	3265.9
#2	2657.0	2110.0	14730.	3289.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	70.965%	87.972%	85.075%	101.28%
Range				

Sample Name: blank Acquired: 7/25/2017 12:59:26 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00024**	**.03636**	**.00042**	**.03363**	**.00014**
Stddev	.00144	.00893	.00088	.00357	.00002
%RSD	607.58	24.576	207.01	10.618	14.130
#1	.00078	.03004	.00104	.03616	.00013
#2	-.00125	.04267	-.00020	.03111	.00016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00006**	**.02197**	**.00064**	**-.0096**	**-.00045**
Stddev	.00004	.00104	.00018	.0068	.00006
%RSD	68.062	4.7122	28.393	71.33	13.537
#1	.00008	.02271	.00051	-.0144	-.00049
#2	.00003	.02124	.00076	-.0047	-.00041
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00305**	**.00086**	**.01359**	**.09210**	**.00032**
Stddev	.00037	.00080	.00167	.01822	.00061
%RSD	11.989	93.463	12.312	19.786	190.99
#1	.00280	.00029	.01241	.10498	.00075
#2	.00331	.00142	.01477	.07921	-.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: blank Acquired: 7/25/2017 12:59:26 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00114**	**.00055**	**.00066**	**.12033**	**-.00029**
Stddev	.00587	.00011	.00003	.00494	.00034
%RSD	515.98	19.822	4.8920	4.1053	116.63
#1	.00528	.00063	.00064	.12382	-.00054
#2	-.00301	.00047	.00068	.11683	-.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00012**	**.01623**	**.00253**	**-.00057**	**.37010**
Stddev	.00064	.00457	.00149	.00059	.01391
%RSD	547.49	28.190	58.861	102.37	3.7594
#1	.00057	.01299	.00148	-.00099	.37994
#2	-.00033	.01946	.00359	-.00016	.36026
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01797**	**.00008**	**-.00000**	**-.00355**	**.00021**
Stddev	.00022	.00004	.00049	.00113	.00066
%RSD	1.2490	42.933	38080.	31.761	313.90
#1	.01781	.00006	-.00035	-.00435	-.00026
#2	.01812	.00011	.00035	-.00275	.00068
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: blank Acquired: 7/25/2017 12:59:26 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00169
Stddev	.00078
%RSD	45.933
#1	.00224
#2	.00114
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3464.5	2087.8	16014.	3264.6
Stddev	1.0	1.4	46.	13.7
%RSD	.02755	.06790	.28726	.41848
#1	3465.2	2086.8	15982.	3254.9
#2	3463.8	2088.8	16047.	3274.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.390%	86.899%	92.524%	100.87%
Range				

Sample Name: 480-121453-m-1-a@10 Acquired: 7/25/2017 13:08:53 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00157**	**.22397**	**.00470**	**.12345**	**.02055**
Stddev	.00049	.00056	.00123	.00057	.00014
%RSD	30.982	.24831	26.211	.46431	.69563
#1	-.00191	.22358	.00557	.12305	.02065
#2	-.00123	.22437	.00383	.12386	.02045
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00006**	**26.825**	**-.00003**	**-.1092**	**-.00001**
Stddev	.00006	.175	.00016	.0216	.00013
%RSD	96.449	.65139	491.44	19.76	1180.6
#1	-.00010	26.948	.00008	-.1244	.00008
#2	-.00002	26.701	-.00015	-.0939	-.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00104**	**.00439**	**.83802**	**1.5669**	**-.00164**
Stddev	.00012	.00012	.01087	.0223	.00119
%RSD	11.109	2.6899	1.2969	1.4242	72.580
#1	.00095	.00431	.84570	1.5827	-.00080
#2	.00112	.00448	.83033	1.5511	-.00248
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121453-m-1-a@10 Acquired: 7/25/2017 13:08:53 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576-2	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}2	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**3.5006**	**31.963**	**-.00136**	**20.034**	**.00170**
Stddev	.0133	.169	.00005	.104	.00014
%RSD	.37951	.52926	3.4583	.51983	8.3755
#1	3.5100	32.083	-.00133	20.108	.00180
#2	3.4912	31.844	-.00139	19.961	.00160
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00279**	**8.5908**	**-.00115**	**-.01263**	**1.2048**
Stddev	.00040	.0035	.00083	.00021	.0280
%RSD	14.462	.04046	72.143	1.6236	2.3272
#1	.00251	8.5933	-.00174	-.01248	1.2247
#2	.00308	8.5884	-.00057	-.01277	1.1850
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00092**	**.08898**	**.00831**	**-.00089**	**.00122**
Stddev	.00027	.00057	.00019	.00066	.00037
%RSD	28.980	.64148	2.3313	74.498	30.156
#1	.00073	.08938	.00817	-.00135	.00147
#2	.00111	.08858	.00844	-.00042	.00096
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121453-m-1-a@10 Acquired: 7/25/2017 13:08:53 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.02174
Stddev	.00086
%RSD	3.9628
#1	.02113
#2	.02235
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3578.4	2417.3	17003.	3342.5
Stddev	3.9	1.8	45.	16.2
%RSD	.11035	.07437	.26748	.48353
#1	3581.2	2418.5	16971.	3331.1
#2	3575.6	2416.0	17035.	3353.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	95.427%	100.61%	98.236%	103.28%
Range				

Sample Name: 480-121453-m-2-a@100 Acquired: 7/25/2017 13:12:23 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00100**	**.10899**	**.00727**	**.13423**	**.07473**
Stddev	.00078	.01413	.00005	.00009	.00003
%RSD	77.725	12.960	.73531	.06607	.03901
#1	-.00045	.09901	.00730	.13417	.07475
#2	-.00155	.11898	.00723	.13430	.07471
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**4.1802**	**-.00003**	**-.1179**	**.00006**
Stddev	.00009	.0264	.00006	.0088	.00006
%RSD	290.89	.63202	201.12	7.450	92.966
#1	-.00003	4.1988	.00001	-.1117	.00010
#2	.00010	4.1615	-.00007	-.1241	.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00435**	**.00123**	**.21649**	**1.0212**	**.00074**
Stddev	.00016	.00051	.00039	.0086	.00063
%RSD	3.7446	41.628	.18187	.83859	85.763
#1	.00423	.00159	.21676	1.0151	.00029
#2	.00446	.00087	.21621	1.0273	.00118
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121453-m-2-a@100 Acquired: 7/25/2017 13:12:23 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576-2	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}2	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.94629**	**34.904**	**-.00164**	**13.624**	**.00124**
Stddev	.00183	.165	.00002	.084	.00019
%RSD	.19300	.47336	1.3492	.61598	15.363
#1	.94500	35.021	-.00163	13.683	.00138
#2	.94758	34.787	-.00166	13.564	.00111
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00217**	**3.3267**	**-.00253**	**-.01113**	**.23636**
Stddev	.00091	.0013	.00011	.00173	.01005
%RSD	42.115	.03918	4.1839	15.531	4.2531
#1	.00153	3.3258	-.00245	-.01236	.24347
#2	.00282	3.3276	-.00260	-.00991	.22925
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00315**	**.07274**	**.00514**	**-.00125**	**.00113**
Stddev	.00050	.00050	.00004	.00028	.00039
%RSD	15.854	.68181	.84446	22.228	34.729
#1	.00279	.07309	.00511	-.00105	.00085
#2	.00350	.07239	.00517	-.00144	.00140
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121453-m-2-a@100 Acquired: 7/25/2017 13:12:23 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00089
Stddev	.00028
%RSD	31.055
#1	.00108
#2	.00069
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3610.9	2411.8	16830.	3299.6
Stddev	.5	1.8	19.	5.0
%RSD	.01398	.07583	.11571	.15195
#1	3611.2	2413.1	16817.	3296.0
#2	3610.5	2410.5	16844.	3303.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	96.293%	100.38%	97.239%	101.95%
Range				

Sample Name: LB 480-367816/1-D Acquired: 7/25/2017 13:15:54 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00026**	**.02461**	**.00333**	**.03989**	**.05372**
Stddev	.00056	.00917	.00105	.00013	.00002
%RSD	211.21	37.280	31.508	.31929	.03306
#1	.00013	.03109	.00407	.03998	.05373
#2	-.00066	.01812	.00259	.03980	.05370
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**.77313**	**-.00018**	**.0118**	**-.00031**
Stddev	.00004	.00030	.00008	.0113	.00003
%RSD	405.06	.03921	43.201	95.80	8.2449
#1	-.00004	.77335	-.00013	.0199	-.00029
#2	.00002	.77292	-.00024	.0038	-.00032
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00140**	**.00164**	**.01311**	**.37955**	**.00044**
Stddev	.00030	.00077	.00003	.00220	.00118
%RSD	21.540	46.770	.20787	.58008	272.07
#1	.00119	.00218	.01313	.38111	.00127
#2	.00162	.00110	.01309	.37799	-.00040
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: LB 480-367816/1-D Acquired: 7/25/2017 13:15:54 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.06934**	**.00307**	**.00360**	F **1037.4**	**-.00018**
Stddev	.00054	.00017	.00038	3.1	.00012
%RSD	.77650	5.4411	10.567	.29980	68.747
#1	.06896	.00319	.00333	1035.2	-.00026
#2	.06972	.00295	.00387	1039.6	-.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				1.0000	
Low Limit				-1.0000	

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00040**	**.02238**	**.00025**	**.00392**	**.05144**
Stddev	.00103	.00078	.00046	.00035	.01890
%RSD	259.39	3.4868	188.41	9.0327	36.739
#1	-.00112	.02293	.00057	.00367	.06480
#2	.00033	.02183	-.00008	.00417	.03808
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00000**	F **.01436**	**.00048**	**-.00321**	**-.00038**
Stddev	.00023	.00007	.00006	.00047	.00040
%RSD	5450.7	.51765	13.084	14.538	105.17
#1	.00016	.01431	.00053	-.00355	-.00066
#2	-.00016	.01441	.00044	-.00288	-.00010
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		.01000			
Low Limit		-.01000			

Sample Name: LB 480-367816/1-D Acquired: 7/25/2017 13:15:54 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.01060**
Stddev	.00062
%RSD	5.8403
#1	.01104
#2	.01017
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2936.8**	**2211.5**	**15342.**	**3277.7**
Stddev	1.2	3.8	.	15.5
%RSD	.04038	.17013	.00257	.47197
#1	2935.9	2214.2	15342.	3288.7
#2	2937.6	2208.8	15343.	3266.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	78.316%	92.048%	88.641%	101.28%
Range				

Sample Name: MB 480-368495/2-A Acquired: 7/25/2017 13:19:27 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00019**	**-.00023**	**.00051**	**.00273**	**.00008**
Stddev	.00037	.03880	.00046	.00024	.00001
%RSD	192.13	16773.	91.210	8.6198	16.814
#1	.00007	-.02766	.00083	.00256	.00007
#2	-.00046	.02720	.00018	.00289	.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00007**	**.00961**	**-.00028**	**-.0012**	**-.00009**
Stddev	.00002	.00190	.00003	.0084	.00003
%RSD	31.905	19.819	11.869	698.1	33.480
#1	.00005	.00826	-.00025	-.0071	-.00007
#2	.00009	.01096	-.00030	.0047	-.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00003**	**.00058**	**.00595**	**.05271**	**-.00096**
Stddev	.00031	.00028	.00025	.03774	.00031
%RSD	896.17	47.983	4.2299	71.596	32.755
#1	-.00025	.00078	.00577	.02603	-.00074
#2	.00018	.00038	.00613	.07940	-.00118
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-368495/2-A Acquired: 7/25/2017 13:19:27 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00750**	**.00640**	**.00003**	**.10863**	**.00028**
Stddev	.00296	.00002	.00003	.01137	.00001
%RSD	39.427	.38608	105.56	10.469	2.5878
#1	-.00541	.00638	.00001	.11667	.00027
#2	-.00959	.00641	.00006	.10059	.00028
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00094**	**-.00052**	**.00026**	**-.00158**	**.01832**
Stddev	.00116	.00259	.00063	.00068	.00191
%RSD	123.55	495.32	242.49	43.341	10.448
#1	-.00175	.00131	.00070	-.00109	.01968
#2	-.00012	-.00236	-.00019	-.00206	.01697
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00073**	**.00004**	**.00022**	**.00094**	**-.00002**
Stddev	.00005	.00000	.00063	.00116	.00031
%RSD	7.2959	3.7801	291.53	123.44	1474.2
#1	-.00077	.00004	.00066	.00012	.00020
#2	-.00069	.00004	-.00023	.00176	-.00024
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-368495/2-A Acquired: 7/25/2017 13:19:27 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**-.00002**
Stddev	.00039
%RSD	1937.4
#1	.00025
#2	-.00029
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3831.2**	**2472.6**	**17511.**	**3363.2**
Stddev	2.8	4.5	18.	35.2
%RSD	.07315	.18025	.09999	1.0463
#1	3833.2	2475.8	17499.	3338.3
#2	3829.2	2469.5	17523.	3388.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	102.17%	102.92%	101.17%	103.92%
Range				

Sample Name: CCV-4147885 Acquired: 7/25/2017 13:22:56 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51254**	**24.671**	**.50126**	**.48974**	**.47610**
Stddev	.00256	.066	.00088	.00021	.00196
%RSD	.49917	.26631	.17632	.04378	.41165
#1	.51435	24.625	.50189	.48959	.47748
#2	.51073	24.718	.50064	.48989	.47471
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.48535**	**24.408**	**.48950**	**-.0060**	**.48630**
Stddev	.00050	.007	.00105	.0076	.00015
%RSD	.10373	.02905	.21550	126.5	.03029
#1	.48499	24.403	.49025	-.0114	.48641
#2	.48570	24.413	.48876	-.0006	.48620
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.52946**	**.47184**	**23.545**	**23.451**	**.47939**
Stddev	.00105	.00302	.054	.032	.00213
%RSD	.19744	.64105	.22754	.13724	.44356
#1	.52872	.47398	23.507	23.473	.47789
#2	.53020	.46970	23.583	23.428	.48090
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4147885 Acquired: 7/25/2017 13:22:56 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.594**	**.50487**	**.50284**	**23.951**	**.49113**
Stddev	.028	.00210	.00076	.002	.00017
%RSD	.11553	.41516	.15043	.00707	.03379
#1	24.614	.50635	.50338	23.949	.49101
#2	24.573	.50339	.50231	23.952	.49125
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49625**	**24.181**	**.48500**	**.49618**	**23.817**
Stddev	.00105	.005	.00058	.00513	.026
%RSD	.21127	.02118	.12056	1.0335	.11096
#1	.49550	24.178	.48541	.49981	23.799
#2	.49699	24.185	.48459	.49256	23.836
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49782**	**.48923**	**.50868**	**.50190**	**.51602**
Stddev	.00031	.00054	.00316	.00027	.00321
%RSD	.06167	.11127	.62100	.05372	.62124
#1	.49760	.48884	.51092	.50209	.51829
#2	.49803	.48961	.50645	.50171	.51375
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4147885 Acquired: 7/25/2017 13:22:56 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.51686
Stddev	.00001
%RSD	.00288
#1	.51687
#2	.51685
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3433.9	2394.5	16737.	3305.4
Stddev	1.1	2.8	75.	14.6
%RSD	.03296	.11511	.44778	.44232
#1	3433.1	2392.5	16684.	3315.8
#2	3434.7	2396.4	16790.	3295.1

Sample Name: CCB-4130963 Acquired: 7/25/2017 13:26:08 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00006**	**.01958**	**.00076**	**.00203**	**.00006**
Stddev	.00021	.01288	.00041	.00019	.00001
%RSD	339.21	65.802	54.279	9.4223	8.8647
#1	.00008	.02869	.00105	.00216	.00006
#2	-.00021	.01047	.00047	.00189	.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**.00118**	**-.00019**	**.0243**	**-.00008**
Stddev	.00009	.00085	.00018	.0305	.00005
%RSD	273.68	71.491	93.033	125.3	59.487
#1	.00010	.00059	-.00032	.0459	-.00012
#2	-.00003	.00178	-.00007	.0028	-.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00036**	**.00055**	**.00414**	**.03454**	**.00019**
Stddev	.00008	.00066	.00139	.01172	.00225
%RSD	23.212	120.41	33.530	33.936	1200.7
#1	.00030	.00008	.00513	.02625	.00178
#2	.00042	.00102	.00316	.04282	-.00140
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4130963 Acquired: 7/25/2017 13:26:08 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00090**	**.00260**	**.00015**	**.04162**	**.00002**
Stddev	.00040	.00008	.00018	.00750	.00017
%RSD	44.830	3.1166	125.46	18.027	1003.7
#1	.00119	.00255	.00028	.03631	-.00010
#2	.00062	.00266	.00002	.04692	.00014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00042**	**-.00132**	**-.00018**	**.00055**	**.02317**
Stddev	.00068	.00010	.00096	.00013	.00332
%RSD	162.95	7.4414	521.45	23.477	14.333
#1	.00006	-.00125	-.00086	.00046	.02082
#2	-.00090	-.00139	.00050	.00064	.02552
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00018**	**.00007**	**-.00034**	**.00014**	**.00026**
Stddev	.00014	.00001	.00002	.00035	.00013
%RSD	78.034	21.099	7.3014	249.64	51.366
#1	-.00008	.00006	-.00032	.00039	.00035
#2	-.00028	.00008	-.00036	-.00011	.00016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4130963 Acquired: 7/25/2017 13:26:08 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	**.00028**
Stddev	.00025
%RSD	91.304
#1	.00045
#2	.00010
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3760.4**	**2430.0**	**17165.**	**3306.7**
Stddev	3.0	3.3	9.	10.2
%RSD	.08012	.13774	.05492	.30939
#1	3762.5	2432.4	17158.	3313.9
#2	3758.3	2427.6	17171.	3299.4

Sample Name: CCVL-4147888 Acquired: 7/25/2017 13:29:37 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00580**	**.19628**	**.01552**	**.02094**	**.00205**
Stddev	.00043	.02116	.00020	.00006	.00001
%RSD	7.3878	10.779	1.2610	.29682	.52112
#1	.00550	.18132	.01538	.02099	.00204
#2	.00611	.21124	.01566	.02090	.00206
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00210**	**.49960**	**.00193**	**-.0088**	**.00391**
Stddev	.00005	.00291	.00005	.0117	.00002
%RSD	2.2941	.58174	2.4434	133.6	.44897
#1	.00213	.49754	.00190	-.0170	.00392
#2	.00206	.50165	.00197	-.0005	.00390
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00411**	**.00927**	**.05142**	**.47724**	**.03027**
Stddev	.00044	.00010	.00127	.01020	.00210
%RSD	10.628	1.0674	2.4639	2.1382	6.9236
#1	.00380	.00920	.05052	.48446	.02879
#2	.00442	.00934	.05231	.47003	.03175
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4147888 Acquired: 7/25/2017 13:29:37 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19835**	F **.00533**	**.01041**	**1.0070**	**.00978**
Stddev	.00210	.00012	.00009	.0193	.00040
%RSD	1.0608	2.2892	.82606	1.9127	4.1180
#1	.19984	.00541	.01035	.99338	.01007
#2	.19687	.00524	.01047	1.0206	.00950
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
Value		.00300			
Range		50.000%			

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00933**	**.19164**	**.01923**	**.02380**	**.49351**
Stddev	.00065	.00092	.00033	.00321	.02493
%RSD	6.9123	.47917	1.7190	13.470	5.0517
#1	.00979	.19099	.01900	.02153	.47588
#2	.00888	.19229	.01947	.02606	.51114
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00921**	**.00501**	**.00543**	**.02064**	**.00549**
Stddev	.00002	.00016	.00008	.00009	.00000
%RSD	.21534	3.1726	1.4826	.43878	.08745
#1	.00922	.00490	.00549	.02058	.00549
#2	.00919	.00512	.00537	.02071	.00549
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4147888 Acquired: 7/25/2017 13:29:37 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.01133
Stddev	.00021
%RSD	1.8541
#1	.01118
#2	.01148
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3788.8	2456.9	17405.	3310.0
Stddev	8.7	2.7	25.	28.5
%RSD	.22864	.10937	.14543	.85965
#1	3782.7	2455.0	17423.	3330.1
#2	3794.9	2458.8	17387.	3289.9

Sample Name: LCS 480-368495/3-A Acquired: 7/25/2017 13:33:05 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0246**	**.01174**	**1.0332**	**.03370**	**.95890**
Stddev	.0053	.00836	.0032	.00051	.00437
%RSD	.51478	71.191	.30922	1.5221	.45567
#1	1.0208	.01765	1.0354	.03334	.95581
#2	1.0283	.00583	1.0309	.03407	.96199
Check ?	Chk Pass	None	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.92665**	**.88704**	**.99348**	**-.0130**	**.96401**
Stddev	.00191	.00038	.00154	.0157	.00007
%RSD	.20584	.04301	.15528	120.8	.00711
#1	.92530	.88677	.99457	-.0019	.96396
#2	.92800	.88731	.99239	-.0241	.96406
Check ?	Chk Pass	None	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0133**	**.91102**	**.01102**	**.40212**	**.00049**
Stddev	.0016	.00521	.00213	.01286	.00185
%RSD	.16089	.57195	19.340	3.1983	378.24
#1	1.0121	.91470	.01253	.39303	-.00082
#2	1.0144	.90733	.00951	.41122	.00180
Check ?	Chk Pass	Chk Pass	None	None	None
High Limit					
Low Limit					

Sample Name: LCS 480-368495/3-A Acquired: 7/25/2017 13:33:05 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05068**	**.93652**	**.94809**	**1006.7**	**.97852**
Stddev	.00373	.00318	.00005	3.5	.00041
%RSD	7.3586	.33931	.00479	.34564	.04184
#1	.05331	.93877	.94812	1004.3	.97881
#2	.04804	.93428	.94806	1009.2	.97823
Check ?	None	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.99455**	**.03305**	**.93977**	**1.0304**	**.06154**
Stddev	.00151	.00184	.00049	.0001	.00926
%RSD	.15226	5.5725	.05185	.00500	15.049
#1	.99562	.03174	.93942	1.0304	.06809
#2	.99348	.03435	.94011	1.0304	.05499
Check ?	Chk Pass	None	Chk Pass	Chk Pass	None
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00021**	**.95160**	**-.00020**	**.92176**	**.99210**
Stddev	.00061	.00061	.00026	.00368	.00051
%RSD	291.31	.06369	128.98	.39935	.05094
#1	-.00022	.95203	-.00002	.91916	.99174
#2	.00064	.95117	-.00038	.92436	.99245
Check ?	None	None	None	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: LCS 480-368495/3-A Acquired: 7/25/2017 13:33:05 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	1.0943
Stddev	.0058
%RSD	.52699
#1	1.0984
#2	1.0902
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2939.3	2219.6	15412.	3264.3
Stddev	.8	2.2	21.	10.6
%RSD	.02556	.10005	.13877	.32575
#1	2939.8	2218.0	15397.	3271.8
#2	2938.7	2221.1	15427.	3256.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	78.383%	92.384%	89.044%	100.86%
Range				

Sample Name: LCSD 480-368495/4-A Acquired: 7/25/2017 13:36:31 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0941**	**.01463**	**1.0972**	**.03575**	**1.0179**
Stddev	.0038	.03375	.0041	.00029	.0014
%RSD	.34957	230.77	.37345	.81334	.13708
#1	1.0968	-.00924	1.0943	.03555	1.0189
#2	1.0914	.03849	1.1001	.03596	1.0169
Check ?	Chk Pass	None	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.97812**	**.76783**	**1.0571**	**-.0580**	**1.0237**
Stddev	.00099	.00495	.0011	.0200	.0010
%RSD	.10172	.64507	.10776	34.40	.09754
#1	.97742	.76433	1.0563	-.0722	1.0244
#2	.97882	.77133	1.0579	-.0439	1.0230
Check ?	Chk Pass	None	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0764**	**.96870**	**.01419**	**.39774**	**.00155**
Stddev	.0008	.00822	.00402	.01013	.00081
%RSD	.07047	.84900	28.350	2.5467	52.377
#1	1.0769	.97452	.01135	.39058	.00097
#2	1.0758	.96288	.01703	.40491	.00212
Check ?	Chk Pass	Chk Pass	None	None	None
High Limit					
Low Limit					

Sample Name: LCSD 480-368495/4-A Acquired: 7/25/2017 13:36:31 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.05803	1.0018	1.0037	1065.9	1.0386
Stddev	.00029	.0071	.0008	1.3	.0017
%RSD	.50060	.71135	.08260	.12186	.16034
#1	.05824	.99676	1.0031	1066.8	1.0398
#2	.05783	1.0068	1.0043	1065.0	1.0374
Check ?	None	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	1.0551	.02912	.99932	1.0915	.09387
Stddev	.0005	.00052	.00183	.0041	.01035
%RSD	.04341	1.7718	.18354	.37903	11.031
#1	1.0554	.02875	.99802	1.0886	.08655
#2	1.0547	.02948	1.0006	1.0945	.10119
Check ?	Chk Pass	None	Chk Pass	Chk Pass	None
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00028	1.0061	.00011	.97951	1.0516
Stddev	.00041	.0019	.00024	.00380	.0008
%RSD	146.83	.19315	209.63	.38835	.07535
#1	.00057	1.0048	.00028	.98220	1.0510
#2	-.00001	1.0075	-.00005	.97682	1.0521
Check ?	None	None	None	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: LCSD 480-368495/4-A Acquired: 7/25/2017 13:36:31 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**1.1284**
Stddev	.0032
%RSD	.27989
#1	1.1307
#2	1.1262
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2929.0**	**2221.1**	**15264.**	**3265.9**
Stddev	8.6	8.4	53.	2.3
%RSD	.29202	.37706	.34562	.07184
#1	2935.0	2227.0	15226.	3267.6
#2	2922.9	2215.2	15301.	3264.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	78.109%	92.447%	88.187%	100.91%
Range				

Sample Name: 480-121254-A-1-D Acquired: 7/25/2017 13:39:58 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00563**	**.05487**	**.00226**	**.01063**	**.06322**
Stddev	.00005	.00984	.00075	.00012	.00021
%RSD	.87585	17.940	33.466	1.1477	.33542
#1	.00559	.06183	.00172	.01072	.06307
#2	.00566	.04791	.00279	.01055	.06337
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**34.538**	**-.00012**	**-.0265**	**.00253**
Stddev	.00001	.131	.00005	.0077	.00048
%RSD	233.48	.37827	44.459	29.10	19.075
#1	-.00002	34.631	-.00008	-.0319	.00287
#2	.00000	34.446	-.00016	-.0210	.00219
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00055**	**4.6805**	**.13487**	**.24531**	**.00258**
Stddev	.00016	.0163	.00058	.00982	.00022
%RSD	28.836	.34811	.43177	4.0032	8.4042
#1	.00044	4.6690	.13528	.25226	.00243
#2	.00066	4.6920	.13446	.23837	.00273
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121254-A-1-D Acquired: 7/25/2017 13:39:58 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.52626**	**.47764**	**.00115**	**408.76**	**.01017**
Stddev	.00022	.00001	.00008	2.28	.00055
%RSD	.04238	.00170	7.0495	.55699	5.3693
#1	.52610	.47764	.00109	410.37	.00979
#2	.52641	.47765	.00121	407.15	.01056
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05855**	**.05547**	**.00119**	**.00348**	**.26855**
Stddev	.00118	.00024	.00026	.00146	.00081
%RSD	2.0128	.43532	22.072	41.898	.30074
#1	.05772	.05530	.00137	.00245	.26912
#2	.05938	.05564	.00100	.00451	.26798
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00138**	**.08016**	**.00085**	**-.00084**	**.00049**
Stddev	.00030	.00012	.00001	.00009	.00016
%RSD	21.497	.15210	1.7411	10.607	32.769
#1	.00117	.08007	.00086	-.00078	.00061
#2	.00159	.08024	.00084	-.00090	.00038
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121254-A-1-D Acquired: 7/25/2017 13:39:58 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.01810**
Stddev	.00006
%RSD	.30763
#1	.01814
#2	.01806
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2865.3**	**5620.5**	**39103.**	**8430.6**
Stddev	1.8	3.8	135.	64.7
%RSD	.06337	.06745	.34475	.76752
#1	2864.0	5617.8	39198.	8384.9
#2	2866.6	5623.2	39008.	8476.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	76.411%	233.94%	225.92%	260.50%
Range				

Sample Name: 480-121254-A-1-D@10 Acquired: 7/25/2017 13:43:28 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00071**	**.02498**	**.00015**	**.00591**	**.01484**
Stddev	.00081	.00834	.00095	.00014	.00003
%RSD	113.91	33.402	622.55	2.4269	.19735
#1	.00129	.03088	-.00052	.00601	.01486
#2	.00014	.01908	.00082	.00581	.01482
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**7.9088**	**-.00014**	**.0004**	**.00020**
Stddev	.00010	.0264	.00004	.0024	.00019
%RSD	229.26	.33424	27.244	546.1	99.455
#1	.00003	7.9275	-.00016	.0021	.00033
#2	-.00011	7.8901	-.00011	-.0013	.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00023**	**1.0345**	**.03200**	**.07396**	**.00036**
Stddev	.00021	.0007	.00012	.00451	.00121
%RSD	87.935	.06366	.37039	6.0971	334.90
#1	.00038	1.0340	.03191	.07077	-.00049
#2	.00009	1.0350	.03208	.07715	.00122
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121254-A-1-D@10 Acquired: 7/25/2017 13:43:28 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.12195**	**.10965**	**.00041**	**91.818**	**.00140**
Stddev	.00040	.00000	.00005	.167	.00004
%RSD	.33005	.00212	11.164	.18237	2.8512
#1	.12223	.10965	.00038	91.937	.00137
#2	.12166	.10965	.00045	91.700	.00143
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00302**	**.00952**	**.00088**	**-.00154**	**.07262**
Stddev	.00016	.00102	.00039	.00077	.00161
%RSD	5.4527	10.755	44.069	50.358	2.2207
#1	.00290	.01024	.00115	-.00208	.07148
#2	.00314	.00880	.00060	-.00099	.07376
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00044**	**.01861**	**.00015**	**.00070**	**.00000**
Stddev	.00013	.00006	.00090	.00046	.00050
%RSD	28.891	.32553	606.54	65.112	22331.
#1	-.00052	.01865	-.00049	.00102	.00035
#2	-.00035	.01856	.00078	.00038	-.00035
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121254-A-1-D@10 Acquired: 7/25/2017 13:43:28 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.00424**
Stddev	.00010
%RSD	2.2606
#1	.00417
#2	.00430
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3419.1**	**2737.3**	**19125.**	**3799.7**
Stddev	2.1	2.3	81.	7.6
%RSD	.06077	.08503	.42280	.20097
#1	3420.5	2735.7	19068.	3805.1
#2	3417.6	2738.9	19182.	3794.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	91.178%	113.93%	110.50%	117.41%
Range				

Sample Name: 480-121254-A-2-D Acquired: 7/25/2017 13:46:53 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00804**	**.07215**	**.00240**	**.01843**	**.11395**
Stddev	.00043	.00960	.00019	.00007	.00010
%RSD	5.2867	13.309	7.7610	.37555	.08880
#1	.00774	.07894	.00227	.01838	.11388
#2	.00834	.06536	.00253	.01848	.11402
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00008**	**9.3750**	**-.00022**	**-.0147**	**.00064**
Stddev	.00000	.0197	.00001	.0006	.00000
%RSD	6.3724	.20974	3.2052	4.400	.59551
#1	-.00007	9.3889	-.00021	-.0152	.00063
#2	-.00008	9.3611	-.00022	-.0142	.00064
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00039**	**.47720**	**.01947**	**.24009**	**.00312**
Stddev	.00006	.00053	.00014	.00786	.00007
%RSD	15.650	.11046	.72723	3.2753	2.2447
#1	.00035	.47683	.01957	.23453	.00317
#2	.00043	.47758	.01937	.24565	.00307
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121254-A-2-D Acquired: 7/25/2017 13:46:53 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.28595**	**.01817**	**.00045**	**301.31**	**.00545**
Stddev	.00084	.00005	.00006	.17	.00008
%RSD	.29391	.27128	12.507	.05538	1.3879
#1	.28655	.01813	.00041	301.19	.00550
#2	.28536	.01820	.00049	301.43	.00539
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.02415**	**.05845**	**-.00039**	**.00348**	**.18788**
Stddev	.00067	.00007	.00005	.00014	.00270
%RSD	2.7929	.11864	12.889	4.0417	1.4392
#1	.02367	.05840	-.00036	.00338	.18596
#2	.02463	.05850	-.00043	.00358	.18979
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00049**	**.06593**	**.00102**	**-.00272**	**.00045**
Stddev	.00016	.00001	.00025	.00338	.00007
%RSD	32.759	.01201	24.237	124.11	15.316
#1	.00061	.06593	.00084	-.00033	.00049
#2	.00038	.06594	.00119	-.00511	.00040
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121254-A-2-D Acquired: 7/25/2017 13:46:53 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00706
Stddev	.00005
%RSD	.70750
#1	.00709
#2	.00702
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2895.9	7651.5	53265.	11398.
Stddev	5.5	11.5	94.	36.
%RSD	.18855	.15020	.17701	.31663
#1	2892.0	7643.4	53332.	11373.
#2	2899.8	7659.6	53198.	11424.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	77.227%	318.47%	307.74%	352.20%
Range				

Sample Name: 480-121254-A-2-D@10 Acquired: 7/25/2017 13:50:23 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00173**	**.06156**	**-.00017**	**.00763**	**.03260**
Stddev	.00024	.01703	.00200	.00004	.00003
%RSD	13.765	27.658	1175.6	.48450	.09757
#1	.00190	.04952	-.00159	.00760	.03263
#2	.00156	.07360	.00125	.00766	.03258
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00006**	**2.6992**	**-.00018**	**.0139**	**.00003**
Stddev	.00003	.0118	.00004	.0049	.00004
%RSD	54.786	.43830	23.708	35.43	146.50
#1	-.00008	2.6909	-.00015	.0104	.00006
#2	-.00004	2.7076	-.00021	.0174	-.00000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00021**	**.13232**	**.00509**	**.06207**	**.00153**
Stddev	.00005	.00226	.00012	.00080	.00087
%RSD	26.716	1.7072	2.2699	1.2831	56.940
#1	.00017	.13392	.00518	.06151	.00092
#2	.00024	.13073	.00501	.06263	.00215
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121254-A-2-D@10 Acquired: 7/25/2017 13:50:23 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.08342**	**.00526**	**.00018**	**84.018**	**.00070**
Stddev	.00296	.00008	.00018	.006	.00015
%RSD	3.5521	1.5269	101.68	.00753	21.880
#1	.08132	.00520	.00030	84.023	.00081
#2	.08551	.00532	.00005	84.014	.00059
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00133**	**.01394**	**-.00011**	**-.00103**	**.05022**
Stddev	.00087	.00105	.00190	.00156	.01332
%RSD	65.197	7.5264	1694.3	151.28	26.530
#1	.00072	.01468	.00123	-.00214	.05964
#2	.00195	.01320	-.00145	.00007	.04080
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00106**	**.01885**	**.00015**	**-.00008**	**.00010**
Stddev	.00029	.00006	.00026	.00105	.00018
%RSD	27.005	.31209	167.59	1324.8	190.89
#1	-.00086	.01889	-.00003	-.00082	-.00003
#2	-.00126	.01881	.00033	.00066	.00023
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121254-A-2-D@10 Acquired: 7/25/2017 13:50:23 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00242
Stddev	.00023
%RSD	9.5591
#1	.00226
#2	.00258
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3423.8	2945.6	20587.	4085.3
Stddev	3.2	1.2	32.	19.6
%RSD	.09415	.04220	.15678	.48058
#1	3426.0	2946.4	20610.	4099.1
#2	3421.5	2944.7	20565.	4071.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	91.304%	122.60%	118.94%	126.23%
Range				

Sample Name: 480-121348-A-1-D Acquired: 7/25/2017 13:53:49 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00018**	**-.02462**	**.00311**	**.14328**	**.33852**
Stddev	.00006	.00080	.00007	.00018	.00197
%RSD	36.315	3.2420	2.1876	.12701	.58069
#1	.00022	-.02518	.00306	.14315	.33713
#2	.00013	-.02405	.00316	.14341	.33991
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00009**	**29.301**	**.00048**	**-.0230**	**.00770**
Stddev	.00000	.175	.00000	.0009	.00014
%RSD	.51935	.59805	.63610	3.728	1.8182
#1	-.00009	29.177	.00047	-.0236	.00780
#2	-.00009	29.425	.00048	-.0224	.00760
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00013**	**.26403**	**.00402**	**.31546**	**.00362**
Stddev	.00002	.00196	.00005	.00046	.00011
%RSD	13.372	.74345	1.1359	.14699	3.0876
#1	-.00014	.26265	.00399	.31578	.00370
#2	-.00012	.26542	.00405	.31513	.00354
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121348-A-1-D Acquired: 7/25/2017 13:53:49 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.18679**	**.05920**	**.00065**	**74.968**	**.47184**
Stddev	.00118	.00022	.00000	.057	.00091
%RSD	.63395	.36621	.67021	.07556	.19262
#1	.18595	.05904	.00065	74.928	.47120
#2	.18762	.05935	.00065	75.009	.47248
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01549**	**.41074**	**.04926**	**.00384**	**.28903**
Stddev	.00127	.00028	.00009	.00012	.00035
%RSD	8.2069	.06784	.17666	3.0404	.12099
#1	.01639	.41094	.04919	.00392	.28928
#2	.01459	.41054	.04932	.00376	.28878
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00074**	**1.3481**	**.00132**	**-.00389**	**.00064**
Stddev	.00088	.0003	.00002	.00082	.00000
%RSD	118.81	.02087	1.5597	21.100	.00489
#1	.00136	1.3483	.00131	-.00447	.00064
#2	.00012	1.3479	.00134	-.00331	.00064
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121348-A-1-D Acquired: 7/25/2017 13:53:49 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.06862
Stddev	.00045
%RSD	.65073
#1	.06830
#2	.06893
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2713.8	29954.	209020.	46959.
Stddev	6.0	46.	1916.	165.
%RSD	.22062	.15523	.91642	.35201
#1	2718.0	29987.	210380.	47076.
#2	2709.5	29922.	207670.	46842.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	72.370%	1246.8%	1207.6%	1451.0%
Range				

Sample Name: 480-121348-A-1-D@20 Acquired: 7/25/2017 13:57:38 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00015**	**-.00609**	**.00199**	**.06486**	**.15884**
Stddev	.00076	.01180	.00091	.00009	.00044
%RSD	521.06	193.84	45.969	.13708	.27390
#1	-.00069	-.01444	.00134	.06492	.15914
#2	.00039	.00226	.00263	.06480	.15853
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00005**	**13.246**	**.00015**	**-.0177**	**.00031**
Stddev	.00000	.059	.00013	.0126	.00019
%RSD	9.2542	.44827	83.308	71.21	60.275
#1	-.00006	13.288	.00024	-.0266	.00044
#2	-.00005	13.204	.00006	-.0088	.00018
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00007**	**.11027**	**.00310**	**.15684**	**.00100**
Stddev	.00062	.00021	.00184	.03688	.00097
%RSD	951.90	.19278	59.394	23.516	97.432
#1	.00037	.11012	.00180	.18292	.00169
#2	-.00050	.11042	.00440	.13076	.00031
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121348-A-1-D@20 Acquired: 7/25/2017 13:57:38 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.08281**	**.02648**	**.00030**	**33.267**	**.02306**
Stddev	.00068	.00001	.00005	.137	.00023
%RSD	.82697	.04551	18.457	.41315	1.0100
#1	.08233	.02647	.00026	33.364	.02323
#2	.08330	.02649	.00034	33.170	.02290
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00097**	**.15931**	**.01996**	**-.00203**	**.13526**
Stddev	.00081	.00011	.00127	.00143	.00192
%RSD	83.972	.06770	6.3661	70.588	1.4168
#1	-.00154	.15923	.01906	-.00304	.13662
#2	-.00039	.15939	.02085	-.00101	.13391
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00018**	**.61575**	**.00056**	**.00168**	**.00051**
Stddev	.00029	.00276	.00006	.00014	.00002
%RSD	161.15	.44890	10.969	8.4159	3.5989
#1	.00002	.61771	.00060	.00178	.00050
#2	-.00038	.61380	.00051	.00158	.00052
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121348-A-1-D@20 Acquired: 7/25/2017 13:57:38 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.03098**
Stddev	.00039
%RSD	1.2489
#1	.03070
#2	.03125
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3473.0**	**3958.4**	**27774.**	**5487.4**
Stddev	3.3	3.5	35.	6.6
%RSD	.09542	.08888	.12557	.11948
#1	3475.4	3960.9	27749.	5492.0
#2	3470.7	3955.9	27799.	5482.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.617%	164.76%	160.47%	169.55%
Range				

Sample Name: 480-121348-A-1-D@100 Acquired: 7/25/2017 14:01:02 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00042**	**.01980**	**.00179**	**.02009**	**.04629**
Stddev	.00065	.01093	.00216	.00010	.00019
%RSD	153.01	55.234	120.30	.49549	.41225
#1	.00003	.01206	.00027	.02002	.04643
#2	-.00088	.02753	.00332	.02016	.04616
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00000**	**3.8861**	**-.00001**	**-.0113**	**.00003**
Stddev	.00001	.0220	.00005	.0078	.00011
%RSD	1023.7	.56504	822.73	68.87	430.82
#1	-.00001	3.9017	.00003	-.0058	-.00005
#2	.00001	3.8706	-.00005	-.0169	.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**.03294**	**.00209**	**.02656**	**-.00015**
Stddev	.00003	.00075	.00235	.01566	.00164
%RSD	356.39	2.2657	112.27	58.945	1124.1
#1	.00001	.03347	.00375	.01549	-.00130
#2	-.00003	.03242	.00043	.03763	.00101
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121348-A-1-D@100 Acquired: 7/25/2017 14:01:02 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.02304**	**.00782**	**.00007**	**9.7367**	**.00506**
Stddev	.00001	.00010	.00021	.0483	.00039
%RSD	.04374	1.2843	305.00	.49655	7.7631
#1	.02304	.00789	.00021	9.7709	.00534
#2	.02305	.00775	-.00008	9.7025	.00479
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**.04280**	**.00544**	**-.00064**	**.04125**
Stddev	.00146	.00259	.00053	.00033	.00325
%RSD	3994.0	6.0483	9.6875	51.425	7.8826
#1	-.00107	.04464	.00507	-.00041	.04355
#2	.00100	.04097	.00581	-.00087	.03896
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00055**	**.17865**	**.00037**	**.00074**	**-.00010**
Stddev	.00071	.00035	.00003	.00098	.00013
%RSD	129.13	.19314	8.3619	132.19	134.47
#1	-.00005	.17890	.00039	.00005	-.00000
#2	-.00106	.17841	.00035	.00144	-.00019
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121348-A-1-D@100 Acquired: 7/25/2017 14:01:02 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.01381
Stddev	.00066
%RSD	4.7577
#1	.01428
#2	.01335
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3668.1	2717.2	19289.	3689.7
Stddev	.6	1.6	40.	22.6
%RSD	.01617	.05843	.20626	.61306
#1	3668.5	2718.3	19261.	3673.7
#2	3667.7	2716.1	19317.	3705.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	97.819%	113.10%	111.44%	114.01%
Range				

Sample Name: CCV-4147885 Acquired: 7/25/2017 14:04:30 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51607**	**24.604**	**.50676**	**.49505**	**.47909**
Stddev	.00013	.026	.00262	.00101	.00143
%RSD	.02590	.10556	.51606	.20384	.29863
#1	.51598	24.623	.50861	.49577	.47808
#2	.51616	24.586	.50492	.49434	.48010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.48435**	**24.324**	**.49397**	**-.0234**	**.48765**
Stddev	.00107	.016	.00069	.0462	.00026
%RSD	.22160	.06592	.13927	197.9	.05267
#1	.48511	24.336	.49446	-.0560	.48783
#2	.48359	24.313	.49349	.0093	.48746
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.53161**	**.47981**	**23.340**	**23.489**	**.48353**
Stddev	.00333	.00102	.009	.009	.00139
%RSD	.62681	.21362	.04016	.03661	.28781
#1	.53396	.47908	23.347	23.483	.48451
#2	.52925	.48053	23.334	23.495	.48254
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4147885 Acquired: 7/25/2017 14:04:30 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.788**	**.50390**	**.50537**	**24.049**	**.49200**
Stddev	.039	.00186	.00129	.036	.00059
%RSD	.15864	.36880	.25468	.14866	.11922
#1	24.760	.50259	.50628	24.074	.49158
#2	24.816	.50521	.50446	24.023	.49241
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49640**	**24.427**	**.49215**	**.49976**	**23.671**
Stddev	.00032	.066	.00155	.00070	.028
%RSD	.06405	.27062	.31479	.14104	.11961
#1	.49618	24.474	.49325	.50025	23.691
#2	.49663	24.381	.49105	.49926	23.651
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49988**	**.49191**	**.51146**	**.50656**	**.51883**
Stddev	.00028	.00171	.00139	.00074	.00073
%RSD	.05688	.34826	.27251	.14591	.14100
#1	.50008	.49312	.51047	.50708	.51831
#2	.49968	.49070	.51244	.50604	.51935
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4147885 Acquired: 7/25/2017 14:04:30 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.51771
Stddev	.00027
%RSD	.05216
#1	.51752
#2	.51790
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3431.7	2384.9	16691.	3303.6
Stddev	4.2	6.1	20.	5.5
%RSD	.12185	.25601	.11971	.16647
#1	3428.7	2380.6	16705.	3307.5
#2	3434.6	2389.2	16677.	3299.7

Sample Name: CCB-4130963 Acquired: 7/25/2017 14:07:42 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00029**	**.01354**	**.00004**	**.00119**	**.00010**
Stddev	.00153	.01150	.00218	.00035	.00002
%RSD	523.81	84.905	5842.7	28.936	20.638
#1	.00079	.02167	.00158	.00144	.00011
#2	-.00137	.00541	-.00150	.00095	.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**-.00226**	**-.00014**	**-.0060**	**.00005**
Stddev	.00001	.00136	.00031	.0050	.00019
%RSD	23.673	60.121	225.20	83.41	396.95
#1	.00002	-.00322	-.00035	-.0095	.00018
#2	.00003	-.00130	.00008	-.0025	-.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00006**	**.00044**	**.00348**	**-.00909**	**-.00232**
Stddev	.00042	.00002	.00022	.00059	.00086
%RSD	748.64	5.1715	6.3577	6.4639	37.231
#1	.00024	.00043	.00332	-.00867	-.00293
#2	-.00036	.00046	.00363	-.00951	-.00171
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4130963 Acquired: 7/25/2017 14:07:42 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00612**	**.00016**	**.00016**	**.02514**	**.00053**
Stddev	.00200	.00009	.00004	.00606	.00011
%RSD	32.729	57.179	23.831	24.097	20.992
#1	-.00470	.00023	.00013	.02942	.00045
#2	-.00753	.00010	.00018	.02086	.00060
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00060**	**.00258**	**.00067**	**.00039**	**.02008**
Stddev	.00010	.00083	.00066	.00409	.01122
%RSD	15.826	32.151	98.567	1056.4	55.867
#1	-.00067	.00200	.00020	-.00251	.01215
#2	-.00054	.00317	.00113	.00328	.02801
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00043**	**.00013**	**.00000**	**-.00025**	**.00012**
Stddev	.00007	.00003	.00073	.00081	.00042
%RSD	16.636	24.121	25496.	326.19	356.04
#1	-.00048	.00011	-.00051	-.00083	-.00018
#2	-.00038	.00016	.00052	.00033	.00041
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4130963 Acquired: 7/25/2017 14:07:42 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	**-.00035**
Stddev	.00015
%RSD	42.466
#1	-.00045
#2	-.00024
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3749.1**	**2409.6**	**17105.**	**3257.9**
Stddev	5.5	1.8	36.	27.9
%RSD	.14658	.07620	.20972	.85584
#1	3752.9	2410.9	17079.	3238.2
#2	3745.2	2408.3	17130.	3277.6

Sample Name: CCVL-4147888 Acquired: 7/25/2017 14:11:11 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00554**	**.22206**	**.01540**	**.02014**	**.00208**
Stddev	.00107	.00871	.00082	.00022	.00002
%RSD	19.274	3.9241	5.3322	1.0926	.84759
#1	.00479	.22822	.01482	.02030	.00209
#2	.00630	.21590	.01598	.01999	.00207
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00205**	**.49391**	**.00181**	**.0234**	**.00393**
Stddev	.00001	.00706	.00027	.0142	.00018
%RSD	.34741	1.4291	14.804	60.71	4.7008
#1	.00205	.48892	.00200	.0134	.00380
#2	.00206	.49890	.00162	.0334	.00406
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00435**	**.01031**	**.04999**	**.49175**	**.03122**
Stddev	.00004	.00088	.00183	.01824	.00223
%RSD	.96882	8.5762	3.6648	3.7099	7.1445
#1	.00432	.00969	.04870	.47885	.02964
#2	.00438	.01094	.05129	.50465	.03280
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4147888 Acquired: 7/25/2017 14:11:11 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19760**	**.00321**	**.01026**	**1.0027**	**.01008**
Stddev	.00167	.00005	.00009	.0071	.00013
%RSD	.84337	1.4723	.89946	.71097	1.3170
#1	.19642	.00324	.01019	.99771	.00998
#2	.19878	.00318	.01032	1.0078	.01017
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00843**	**.19177**	**.01871**	**.02193**	**.50717**
Stddev	.00031	.00119	.00047	.00087	.00122
%RSD	3.6213	.61925	2.5215	3.9727	.24042
#1	.00864	.19261	.01904	.02132	.50803
#2	.00821	.19093	.01838	.02255	.50631
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00862**	**.00507**	**.00543**	**.02076**	**.00501**
Stddev	.00065	.00006	.00004	.00170	.00009
%RSD	7.5069	1.1104	.70882	8.1822	1.8123
#1	.00816	.00503	.00546	.01956	.00495
#2	.00907	.00511	.00541	.02196	.00508
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4147888 Acquired: 7/25/2017 14:11:11 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.01147
Stddev	.00013
%RSD	1.1565
#1	.01138
#2	.01157
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3781.0	2443.8	17224.	3292.6
Stddev	2.9	1.0	6.	12.4
%RSD	.07638	.04226	.03202	.37670
#1	3783.0	2444.5	17220.	3301.4
#2	3778.9	2443.1	17228.	3283.9

Sample Name: 480-121332-A-1-L Acquired: 7/25/2017 14:14:39 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00026**	**.11610**	**.00550**	**.08135**	**.40575**
Stddev	.00130	.01803	.00009	.00016	.00006
%RSD	494.10	15.532	1.5859	.19882	.01595
#1	-.00118	.10335	.00556	.08124	.40580
#2	.00066	.12885	.00544	.08147	.40571
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00020**	**209.21**	**.00136**	**-.0046**	**.01203**
Stddev	.00008	.24	.00011	.0158	.00013
%RSD	41.286	.11641	7.8529	344.8	1.0396
#1	.00014	209.04	.00143	.0066	.01212
#2	.00026	209.39	.00128	-.0158	.01195
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00017**	**.00401**	**.07029**	**2.2082**	**-.00480**
Stddev	.00008	.00174	.00137	.0142	.00103
%RSD	47.750	43.332	1.9483	.64199	21.418
#1	.00022	.00524	.07126	2.1982	-.00408
#2	.00011	.00278	.06932	2.2182	-.00553
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121332-A-1-L Acquired: 7/25/2017 14:14:39 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**36.649**	**2.9294**	**.00145**	**1009.3**	**.01460**
Stddev	.027	.0025	.00014	5.0	.00020
%RSD	.07499	.08509	9.3546	.49295	1.3704
#1	36.629	2.9311	.00155	1005.8	.01474
#2	36.668	2.9276	.00136	1012.8	.01446
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01918**	**1.6761**	**.00148**	**.00009**	**1.0641**
Stddev	.00170	.0036	.00138	.00155	.0125
%RSD	8.8479	.21308	93.850	1808.4	1.1779
#1	.01798	1.6736	.00050	.00118	1.0730
#2	.02038	1.6787	.00245	-.00101	1.0553
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00015**	**.26858**	**.00041**	**-.00275**	**.00178**
Stddev	.00084	.00006	.00006	.00114	.00059
%RSD	560.90	.02392	15.078	41.513	33.260
#1	-.00044	.26853	.00046	-.00356	.00136
#2	.00074	.26863	.00037	-.00194	.00220
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121332-A-1-L Acquired: 7/25/2017 14:14:39 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.09288
Stddev	.00047
%RSD	.50954
#1	.09322
#2	.09255
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2795.9	2150.1	14958.	3224.2
Stddev	.8	.1	14.	22.1
%RSD	.02978	.00386	.09475	.68557
#1	2795.3	2150.1	14948.	3239.8
#2	2796.5	2150.0	14968.	3208.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	74.559%	89.492%	86.423%	99.623%
Range				

Sample Name: 480-121332-A-1-Lsd@5 Acquired: 7/25/2017 14:18:10 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00097**	**.03167**	**.00012**	**.01717**	**.08258**
Stddev	.00069	.00834	.00176	.00047	.00003
%RSD	71.220	26.328	1425.2	2.7216	.03231
#1	-.00147	.03757	.00137	.01750	.08260
#2	-.00048	.02577	-.00112	.01684	.08256
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00009**	**41.746**	**.00008**	**-.0223**	**.00236**
Stddev	.00000	.228	.00004	.0037	.00005
%RSD	3.8108	.54572	49.764	16.68	1.9208
#1	.00009	41.907	.00005	-.0250	.00232
#2	.00009	41.585	.00011	-.0197	.00239
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00080**	**.00010**	**.01569**	**.44582**	**-.00079**
Stddev	.00031	.00121	.00327	.03189	.00033
%RSD	39.184	1242.1	20.869	7.1529	41.636
#1	-.00102	.00095	.01337	.42327	-.00102
#2	-.00058	-.00076	.01800	.46837	-.00056
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121332-A-1-Lsd@5 Acquired: 7/25/2017 14:18:10 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**7.5380**	**.58931**	**.00024**	**199.62**	**.00291**
Stddev	.0138	.00178	.00021	.81	.00038
%RSD	.18295	.30264	85.863	.40520	13.207
#1	7.5282	.58804	.00009	200.19	.00264
#2	7.5478	.59057	.00039	199.05	.00319
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00357**	**.31289**	**-.00196**	**-.00147**	**.23538**
Stddev	.00011	.00117	.00224	.00188	.00976
%RSD	3.2023	.37488	114.18	127.82	4.1474
#1	.00349	.31206	-.00354	-.00014	.22848
#2	.00365	.31372	-.00038	-.00280	.24228
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00072**	**.05400**	**-.00054**	**-.00005**	**.00046**
Stddev	.00070	.00019	.00027	.00003	.00011
%RSD	96.560	.34554	50.501	65.252	23.293
#1	-.00023	.05413	-.00035	-.00008	.00039
#2	-.00122	.05386	-.00073	-.00003	.00054
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121332-A-1-Lsd@5 Acquired: 7/25/2017 14:18:10 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.01903
Stddev	.00012
%RSD	.62940
#1	.01895
#2	.01912
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3223.3	2293.6	16048.	3243.1
Stddev	2.9	2.9	81.	18.0
%RSD	.08984	.12797	.50414	.55555
#1	3221.2	2291.5	16105.	3230.4
#2	3225.3	2295.6	15990.	3255.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	85.957%	95.464%	92.715%	100.21%
Range				

Sample Name: 480-121332-A-1-L pds Acquired: 7/25/2017 14:21:35 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.1160**	**.11695**	**1.1316**	**.07801**	**1.4141**
Stddev	.0007	.02802	.0001	.00006	.0072
%RSD	.06361	23.956	.01108	.07553	.50849
#1	1.1165	.13676	1.1317	.07797	1.4090
#2	1.1155	.09714	1.1315	.07805	1.4192
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.99224**	**208.59**	**1.0859**	**-.0411**	**1.0546**
Stddev	.00417	.75	.0008	.0351	.0010
%RSD	.42053	.35751	.07298	85.34	.08985
#1	.98929	208.06	1.0853	-.0163	1.0539
#2	.99519	209.11	1.0864	-.0659	1.0552
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0767**	**.99997**	**.07136**	**2.2021**	**-.00652**
Stddev	.0002	.00431	.00004	.0177	.00071
%RSD	.02109	.43080	.05394	.80297	10.935
#1	1.0766	1.0030	.07133	2.1896	-.00703
#2	1.0769	.99692	.07139	2.2146	-.00602
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121332-A-1-L pds Acquired: 7/25/2017 14:21:35 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**36.386**	**3.8963**	**1.0261**	**1014.9**	**1.0687**
Stddev	.074	.0026	.0019	5.5	.0016
%RSD	.20326	.06549	.18235	.54569	.15272
#1	36.438	3.8981	1.0248	1011.0	1.0675
#2	36.334	3.8945	1.0274	1018.8	1.0698
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.1007**	**1.6718**	**1.0379**	**1.1365**	**1.0656**
Stddev	.0020	.0067	.0023	.0021	.0038
%RSD	.18495	.39881	.21897	.18368	.35600
#1	1.1021	1.6671	1.0395	1.1380	1.0683
#2	1.0992	1.6765	1.0363	1.1350	1.0629
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00082**	**.26755**	**.00018**	**1.0079**	**1.0746**
Stddev	.00020	.00014	.00005	.0020	.0006
%RSD	23.957	.05221	29.199	.19592	.05339
#1	.00096	.26745	.00014	1.0093	1.0750
#2	.00068	.26765	.00022	1.0065	1.0742
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121332-A-1-L pds Acquired: 7/25/2017 14:21:35 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	1.1722
Stddev	.0009
%RSD	.07850
#1	1.1716
#2	1.1729
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2793.1	2148.9	15141.	3224.3
Stddev	7.6	4.5	45.	18.5
%RSD	.27087	.21147	.29891	.57287
#1	2798.4	2152.1	15109.	3237.4
#2	2787.7	2145.7	15173.	3211.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	74.485%	89.444%	87.478%	99.628%
Range				

Sample Name: LB 480-367814/1-F Acquired: 7/25/2017 14:25:00 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00020**	**.03376**	**.00300**	**.01969**	**.05968**
Stddev	.00113	.01274	.00026	.00011	.00018
%RSD	559.21	37.729	8.7786	.57135	.30628
#1	-.00100	.04276	.00318	.01961	.05955
#2	.00060	.02475	.00281	.01977	.05981
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00030**	**.26958**	**.00009**	**-.0020**	**-.00008**
Stddev	.00002	.00051	.00008	.0328	.00006
%RSD	8.1906	.18766	88.525	1647.	73.284
#1	.00032	.26922	.00014	-.0252	-.00013
#2	.00028	.26994	.00003	.0212	-.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00224**	**.00196**	**.01549**	**.28230**	**.00106**
Stddev	.00035	.00168	.00183	.00214	.00038
%RSD	15.616	85.578	11.839	.75849	35.970
#1	.00199	.00315	.01679	.28382	.00079
#2	.00249	.00078	.01420	.28079	.00133
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: LB 480-367814/1-F Acquired: 7/25/2017 14:25:00 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04670**	**.00234**	**.00373**	**1045.8**	**.00096**
Stddev	.00453	.00002	.00010	2.4	.00016
%RSD	9.7088	1.0373	2.5574	.23419	16.365
#1	.04349	.00232	.00366	1044.1	.00085
#2	.04991	.00236	.00380	1047.5	.00107
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00087**	**.02083**	**.00056**	**.00090**	**.05806**
Stddev	.00028	.00229	.00110	.00016	.01176
%RSD	31.527	10.976	196.63	18.274	20.248
#1	-.00107	.01922	.00134	.00101	.04975
#2	-.00068	.02245	-.00022	.00078	.06637
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00016**	**.02097**	**-.00036**	**-.00070**	**.00077**
Stddev	.00052	.00015	.00033	.00023	.00044
%RSD	315.06	.72503	92.618	32.996	57.117
#1	.00053	.02086	-.00012	-.00053	.00108
#2	-.00020	.02108	-.00059	-.00086	.00046
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: LB 480-367814/1-F Acquired: 7/25/2017 14:25:00 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.01203**
Stddev	.00013
%RSD	1.0476
#1	.01212
#2	.01194
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2928.6**	**2200.1**	**15140.**	**3276.5**
Stddev	7.8	7.4	54.	3.4
%RSD	.26466	.33475	.35504	.10278
#1	2923.1	2194.9	15178.	3278.9
#2	2934.1	2205.3	15102.	3274.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	78.099%	91.573%	87.473%	101.24%
Range				

Sample Name: MB 480-368493/2-A Acquired: 7/25/2017 14:28:33 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00021**	**.02780**	**-.00134**	**.00099**	**.00011**
Stddev	.00060	.02343	.00022	.00029	.00001
%RSD	282.25	84.264	16.682	29.473	5.1384
#1	-.00064	.01124	-.00118	.00120	.00010
#2	.00021	.04437	-.00150	.00078	.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00008**	**.02915**	**-.00005**	**-.0016**	**.00002**
Stddev	.00011	.00223	.00015	.0123	.00010
%RSD	142.74	7.6408	308.55	790.3	413.47
#1	-.00000	.02758	.00006	-.0103	-.00005
#2	.00016	.03073	-.00016	.0072	.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00043**	**.00092**	**.00359**	**.02315**	**.00138**
Stddev	.00096	.00158	.00006	.02174	.00007
%RSD	222.24	172.26	1.6051	93.916	5.0239
#1	-.00025	.00204	.00363	.00778	.00133
#2	.00111	-.00020	.00355	.03852	.00143
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-368493/2-A Acquired: 7/25/2017 14:28:33 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00295**	**.00072**	**-.00001**	**.17200**	**.00033**
Stddev	.00009	.00004	.00000	.00468	.00018
%RSD	2.9042	5.2461	23.445	2.7185	55.306
#1	-.00288	.00069	-.00001	.16869	.00046
#2	-.00301	.00074	-.00001	.17531	.00020
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00125**	**-.00356**	**-.00032**	**-.00102**	**.03615**
Stddev	.00137	.00247	.00085	.00271	.01859
%RSD	109.18	69.392	268.95	265.54	51.435
#1	-.00222	-.00531	-.00092	-.00294	.02300
#2	-.00029	-.00182	.00028	.00090	.04930
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00035**	**.00018**	**.00028**	**.00138**	**.00031**
Stddev	.00042	.00007	.00045	.00132	.00004
%RSD	117.86	35.393	158.71	95.260	14.064
#1	-.00065	.00023	-.00003	.00232	.00028
#2	-.00006	.00014	.00060	.00045	.00034
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-368493/2-A Acquired: 7/25/2017 14:28:33 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00125
Stddev	.00058
%RSD	46.946
#1	.00083
#2	.00166
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3824.3	2455.8	17374.	3334.0
Stddev	3.5	1.9	93.	.5
%RSD	.09250	.07883	.53641	.01644
#1	3826.8	2457.2	17308.	3334.4
#2	3821.8	2454.4	17439.	3333.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	101.99%	102.22%	100.38%	103.02%
Range				

Sample Name: LCS 480-368493/3-A Acquired: 7/25/2017 14:32:01 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0481**	**.01301**	**1.0503**	**.01571**	**.97898**
Stddev	.0056	.01201	.0028	.00016	.00375
%RSD	.52990	92.312	.26292	.99553	.38325
#1	1.0520	.00452	1.0522	.01582	.98163
#2	1.0441	.02151	1.0483	.01560	.97633
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.92635**	**.25939**	**1.0051**	**-.0134**	**.96776**
Stddev	.00031	.00091	.0011	.0209	.00000
%RSD	.03382	.34987	.10679	155.5	.00010
#1	.92657	.25875	1.0044	-.0282	.96777
#2	.92613	.26003	1.0059	.0013	.96776
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0287**	**.92251**	**.01025**	**.29989**	**.00064**
Stddev	.0046	.00202	.00163	.02925	.00059
%RSD	.44592	.21867	15.936	9.7524	93.608
#1	1.0320	.92394	.00910	.27921	.00021
#2	1.0255	.92108	.01141	.32057	.00106
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: LCS 480-368493/3-A Acquired: 7/25/2017 14:32:01 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.02576**	**.94218**	**.95566**	**1029.1**	**.98358**
Stddev	.00115	.00103	.00099	2.5	.00104
%RSD	4.4612	.10925	.10375	.24237	.10597
#1	.02494	.94291	.95496	1030.9	.98432
#2	.02657	.94145	.95637	1027.4	.98284
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.99735**	**.02327**	**.94993**	**1.0504**	**.09152**
Stddev	.00124	.00229	.00096	.0023	.00367
%RSD	.12451	9.8554	.10117	.22046	4.0069
#1	.99647	.02165	.94926	1.0521	.08893
#2	.99823	.02489	.95061	1.0488	.09411
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00030**	**.96834**	**-.00009**	**.93201**	**1.0046**
Stddev	.00031	.00176	.00049	.00069	.0019
%RSD	104.40	.18156	562.55	.07385	.18675
#1	.00051	.96710	-.00043	.93250	1.0059
#2	.00008	.96958	.00026	.93153	1.0033
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: LCS 480-368493/3-A Acquired: 7/25/2017 14:32:01 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**1.0749**
Stddev	.0019
%RSD	.17674
#1	1.0735
#2	1.0762
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2922.4**	**2204.0**	**15237.**	**3256.1**
Stddev	1.4	3.4	33.	2.8
%RSD	.04832	.15592	.21946	.08507
#1	2923.4	2206.5	15213.	3258.0
#2	2921.4	2201.6	15260.	3254.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	77.933%	91.737%	88.031%	100.61%
Range				

Sample Name: LCSD 480-368493/4-A Acquired: 7/25/2017 14:35:28 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0503**	**.00243**	**1.0621**	**.01565**	**.98759**
Stddev	.0039	.00609	.0006	.00097	.00066
%RSD	.36973	250.56	.05602	6.1899	.06719
#1	1.0531	.00673	1.0626	.01497	.98806
#2	1.0476	-.00187	1.0617	.01634	.98712
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.93221**	**.25536**	**1.0126**	**-.0241**	**.97668**
Stddev	.00280	.00195	.0010	.0183	.00232
%RSD	.30025	.76330	.09345	75.92	.23707
#1	.93418	.25674	1.0133	-.0112	.97832
#2	.93023	.25398	1.0120	-.0370	.97504
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0291**	**.92829**	**.01165**	**.25498**	**.00047**
Stddev	.0001	.00002	.00111	.02104	.00034
%RSD	.00849	.00206	9.5276	8.2520	73.201
#1	1.0290	.92827	.01243	.24010	.00071
#2	1.0292	.92830	.01086	.26985	.00023
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: LCSD 480-368493/4-A Acquired: 7/25/2017 14:35:28 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.02497**	**.94692**	**.96600**	**1037.1**	**.99133**
Stddev	.00285	.00010	.00162	2.2	.00007
%RSD	11.412	.01033	.16776	.21170	.00657
#1	.02296	.94685	.96714	1038.7	.99138
#2	.02699	.94698	.96485	1035.6	.99129
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0099**	**.02011**	**.96163**	**1.0621**	**.22594**
Stddev	.0031	.00062	.00155	.0039	.00937
%RSD	.30806	3.1072	.16070	.36877	4.1478
#1	1.0121	.02055	.96054	1.0649	.23257
#2	1.0077	.01967	.96273	1.0593	.21932
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00019**	**.97698**	**-.00008**	**.94060**	**1.0093**
Stddev	.00035	.00454	.00034	.00414	.0030
%RSD	188.44	.46433	439.48	.44018	.29728
#1	.00044	.98019	.00016	.94353	1.0115
#2	-.00006	.97378	-.00032	.93767	1.0072
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: LCSD 480-368493/4-A Acquired: 7/25/2017 14:35:28 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**1.0819**
Stddev	.0059
%RSD	.54269
#1	1.0860
#2	1.0777
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2918.7**	**2202.4**	**15277.**	**3240.2**
Stddev	2.4	2.3	28.	1.4
%RSD	.08227	.10641	.18053	.04345
#1	2920.4	2204.1	15257.	3239.2
#2	2917.0	2200.7	15296.	3241.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	77.834%	91.669%	88.261%	100.12%
Range				

Sample Name: 480-121246-A-1-K Acquired: 7/25/2017 14:38:55 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00030**	**.06338**	**-.00320**	**.43373**	**.08320**
Stddev	.00020	.00297	.00003	.00022	.00007
%RSD	68.246	4.6824	.86948	.05162	.08375
#1	-.00015	.06128	-.00319	.43389	.08324
#2	-.00044	.06548	-.00322	.43357	.08315
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00006**	**6.2884**	**.00220**	**-.0288**	**.01459**
Stddev	.00005	.0047	.00003	.0129	.00021
%RSD	75.919	.07463	1.3687	44.73	1.4088
#1	.00009	6.2917	.00222	-.0197	.01474
#2	.00003	6.2850	.00218	-.0379	.01445
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.94599**	**.06396**	**.34165**	**29.840**	**.03404**
Stddev	.00086	.00058	.00010	.073	.00181
%RSD	.09132	.90268	.03007	.24371	5.3311
#1	.94660	.06356	.34158	29.789	.03276
#2	.94538	.06437	.34172	29.891	.03533
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121246-A-1-K Acquired: 7/25/2017 14:38:55 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**19.964**	**.33132**	**.02921**	**2552.1**	**1.2355**
Stddev	.047	.00085	.00012	.4	.0000
%RSD	.23650	.25757	.42115	.01634	.00039
#1	19.997	.33192	.02930	2552.4	1.2355
#2	19.930	.33071	.02913	2551.8	1.2356
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.10710**	F **321.38**	**-.00370**	**.01191**	F **406.27**
Stddev	.00030	.17	.00058	.00216	.31
%RSD	.27599	.05373	15.637	18.130	.07559
#1	.10731	321.50	-.00411	.01038	406.05
#2	.10689	321.26	-.00329	.01344	406.48
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Fail
High Limit		90.000			50.000
Low Limit		-.20000			-.50000

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00274**	**.02860**	**.00189**	**-.00841**	**.00273**
Stddev	.00046	.00011	.00087	.00144	.00046
%RSD	16.594	.37847	46.111	17.138	16.761
#1	.00307	.02868	.00250	-.00739	.00241
#2	.00242	.02852	.00127	-.00943	.00306
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121246-A-1-K Acquired: 7/25/2017 14:38:55 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.24532**
Stddev	.00107
%RSD	.43735
#1	.24608
#2	.24456
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2658.0**	**2096.1**	**14364.**	**3196.2**
Stddev	2.1	4.4	51.	13.2
%RSD	.08055	.20818	.35265	.41404
#1	2656.5	2093.0	14328.	3186.9
#2	2659.6	2099.2	14400.	3205.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	70.884%	87.245%	82.990%	98.759%
Range				

Sample Name: 480-121246-A-1-Ksd@5 Acquired: 7/25/2017 14:42:22 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00015**	**.02262**	**.00011**	**.09157**	**.01736**
Stddev	.00042	.00229	.00037	.00005	.00009
%RSD	289.90	10.130	343.52	.05708	.50346
#1	-.00045	.02424	.00037	.09161	.01729
#2	.00015	.02100	-.00015	.09154	.01742
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**1.3116**	**.00046**	**.0173**	**.00267**
Stddev	.00009	.0021	.00003	.0212	.00004
%RSD	244.11	.15707	7.0251	122.2	1.5339
#1	.00010	1.3101	.00048	.0024	.00270
#2	-.00003	1.3130	.00043	.0323	.00264
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19098**	**.01346**	**.07375**	**6.0401**	**.00536**
Stddev	.00067	.00034	.00168	.0382	.00097
%RSD	.34916	2.5305	2.2795	.63161	18.154
#1	.19050	.01370	.07256	6.0131	.00467
#2	.19145	.01322	.07494	6.0671	.00604
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121246-A-1-Ksd@5 Acquired: 7/25/2017 14:42:22 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.2720**	**.06821**	**.00603**	**514.44**	**.24266**
Stddev	.0007	.00000	.00020	2.00	.00035
%RSD	.01577	.00545	3.3794	.38809	.14362
#1	4.2715	.06821	.00588	515.85	.24291
#2	4.2724	.06820	.00617	513.02	.24242
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01729**	**62.760**	**-.00076**	**.00051**	F **83.024**
Stddev	.00044	.027	.00031	.00020	.041
%RSD	2.5444	.04274	41.158	39.757	.04939
#1	.01761	62.779	-.00099	.00065	83.053
#2	.01698	62.741	-.00054	.00036	82.995
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit					50.000
Low Limit					-.50000

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00089**	**.00601**	**.00035**	**-.00137**	**.00069**
Stddev	.00038	.00001	.00045	.00084	.00007
%RSD	42.325	.10356	128.96	61.460	10.381
#1	.00116	.00600	.00066	-.00197	.00064
#2	.00062	.00601	.00003	-.00078	.00075
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121246-A-1-Ksd@5 Acquired: 7/25/2017 14:42:22 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.04952
Stddev	.00024
%RSD	.47993
#1	.04935
#2	.04969
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3091.0	2270.2	15698.	3214.6
Stddev	.6	.7	62.	8.9
%RSD	.02088	.03185	.39648	.27835
#1	3090.6	2269.7	15742.	3208.3
#2	3091.5	2270.7	15653.	3221.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	82.431%	94.491%	90.693%	99.328%
Range				

Sample Name: CCV-4147885 Acquired: 7/25/2017 14:45:53 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51766**	**24.570**	**.50541**	**.49233**	**.47712**
Stddev	.00289	.028	.00205	.00050	.00126
%RSD	.55735	.11535	.40568	.10231	.26433
#1	.51562	24.550	.50396	.49197	.47623
#2	.51970	24.590	.50686	.49269	.47801
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.48147**	**24.202**	**.49265**	**-.0173**	**.48753**
Stddev	.00102	.049	.00004	.0138	.00057
%RSD	.21178	.20197	.00851	79.80	.11592
#1	.48219	24.236	.49268	-.0270	.48713
#2	.48075	24.167	.49262	-.0075	.48793
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.53516**	**.47720**	**23.169**	**23.568**	**.48501**
Stddev	.00168	.00188	.034	.099	.00104
%RSD	.31384	.39445	.14659	.42085	.21482
#1	.53634	.47586	23.193	23.638	.48428
#2	.53397	.47853	23.145	23.498	.48575
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4147885 Acquired: 7/25/2017 14:45:53 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.809**	**.50457**	**.50529**	**24.136**	**.49108**
Stddev	.057	.00065	.00044	.041	.00006
%RSD	.22800	.12872	.08777	.16975	.01191
#1	24.769	.50411	.50498	24.165	.49104
#2	24.849	.50503	.50560	24.107	.49112
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49596**	**24.439**	**.48712**	**.50189**	**24.201**
Stddev	.00092	.026	.00073	.00290	.056
%RSD	.18504	.10738	.14925	.57763	.23231
#1	.49661	24.457	.48660	.50394	24.241
#2	.49531	24.420	.48763	.49984	24.161
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49938**	**.49167**	**.51266**	**.50731**	**.51911**
Stddev	.00010	.00088	.00273	.00222	.00315
%RSD	.01938	.17872	.53216	.43734	.60653
#1	.49931	.49229	.51074	.50888	.51688
#2	.49945	.49105	.51459	.50574	.52134
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4147885 Acquired: 7/25/2017 14:45:53 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	**.52148**
Stddev	.00299
%RSD	.57354
#1	.51937
#2	.52360
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3449.3**	**2401.4**	**16631.**	**3280.4**
Stddev	.2	1.1	29.	2.1
%RSD	.00574	.04720	.17274	.06439
#1	3449.1	2400.6	16652.	3281.9
#2	3449.4	2402.2	16611.	3278.9

Sample Name: CCB-4130963 Acquired: 7/25/2017 14:49:05 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00063**	**.01879**	**.00027**	**.00057**	**.00007**
Stddev	.00091	.00333	.00078	.00065	.00001
%RSD	143.98	17.717	292.76	112.63	9.1314
#1	.00001	.02114	-.00028	.00103	.00006
#2	-.00127	.01643	.00082	.00012	.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**.00207**	**-.00012**	**.0018**	**.00004**
Stddev	.00005	.00015	.00019	.0052	.00007
%RSD	142.09	7.1316	159.32	292.8	189.74
#1	-.00000	.00217	.00001	-.0019	.00009
#2	.00007	.00196	-.00025	.0054	-.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00034**	**-.00007**	**.00186**	**.02329**	**-.00065**
Stddev	.00007	.00073	.00007	.03028	.00117
%RSD	19.658	1098.9	3.5036	130.03	178.59
#1	-.00038	.00045	.00190	.04470	-.00148
#2	-.00029	-.00059	.00181	.00187	.00017
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4130963 Acquired: 7/25/2017 14:49:05 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00636**	**.00022**	**.00025**	**.10249**	**.00022**
Stddev	.00407	.00009	.00002	.00928	.00014
%RSD	63.939	42.374	6.6491	9.0593	62.390
#1	-.00349	.00029	.00026	.09592	.00012
#2	-.00924	.00016	.00023	.10906	.00032
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00099**	**.00384**	**.00101**	**.00018**	**.08289**
Stddev	.00031	.00088	.00088	.00386	.00067
%RSD	30.918	22.817	87.609	2158.8	.81352
#1	-.00078	.00446	.00163	.00291	.08337
#2	-.00121	.00322	.00038	-.00255	.08242
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00042**	**.00002**	**.00008**	**.00125**	**-.00008**
Stddev	.00034	.00005	.00030	.00042	.00066
%RSD	82.606	297.49	367.11	33.933	836.47
#1	-.00017	.00006	.00030	.00095	.00039
#2	-.00066	-.00002	-.00013	.00155	-.00054
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4130963 Acquired: 7/25/2017 14:49:05 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	**.00016**
Stddev	.00012
%RSD	72.557
#1	.00008
#2	.00025
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3771.0**	**2423.6**	**17100.**	**3248.5**
Stddev	3.5	2.1	71.	22.0
%RSD	.09406	.08757	.41261	.67578
#1	3768.5	2422.1	17150.	3264.0
#2	3773.5	2425.1	17050.	3232.9

Sample Name: CCVL-4147888 Acquired: 7/25/2017 14:52:34 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00558**	**.21123**	**.01560**	**.01976**	**.00206**
Stddev	.00082	.01881	.00163	.00005	.00001
%RSD	14.732	8.9037	10.438	.23823	.46631
#1	.00616	.22453	.01675	.01979	.00205
#2	.00500	.19793	.01445	.01973	.00206
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00200**	**.49502**	**.00199**	**.0068**	**.00384**
Stddev	.00013	.00085	.00030	.0209	.00006
%RSD	6.4413	.17175	14.877	306.7	1.5742
#1	.00210	.49442	.00220	-.0079	.00380
#2	.00191	.49562	.00178	.0215	.00388
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00434**	**.00987**	**.05104**	**.50478**	**.03002**
Stddev	.00008	.00021	.00011	.02833	.00011
%RSD	1.9544	2.1664	.21825	5.6123	.37509
#1	.00440	.01002	.05111	.52482	.02994
#2	.00428	.00972	.05096	.48475	.03010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4147888 Acquired: 7/25/2017 14:52:34 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19607**	**.00324**	**.01024**	**1.0477**	**.00987**
Stddev	.00168	.00001	.00005	.0033	.00018
%RSD	.85439	.23782	.48715	.31223	1.8040
#1	.19725	.00324	.01027	1.0500	.00975
#2	.19489	.00323	.01020	1.0454	.01000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00938**	**.19522**	**.01932**	**.02240**	**.51323**
Stddev	.00012	.00186	.00074	.00097	.00097
%RSD	1.2578	.95314	3.8377	4.3189	.18895
#1	.00930	.19653	.01985	.02308	.51255
#2	.00946	.19390	.01880	.02171	.51392
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00907**	**.00496**	**.00518**	**.02121**	**.00575**
Stddev	.00013	.00011	.00081	.00045	.00042
%RSD	1.4707	2.2410	15.539	2.1061	7.3011
#1	.00916	.00489	.00461	.02089	.00605
#2	.00898	.00504	.00575	.02152	.00546
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4147888 Acquired: 7/25/2017 14:52:34 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.01118
Stddev	.00014
%RSD	1.2179
#1	.01128
#2	.01109
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3792.1	2451.6	17227.	3274.3
Stddev	5.8	.7	100.	4.9
%RSD	.15411	.02917	.57938	.14965
#1	3796.3	2452.2	17156.	3270.8
#2	3788.0	2451.1	17297.	3277.7

Sample Name: 480-121246-A-1-K Acquired: 7/25/2017 14:56:02 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.1606**	**.03707**	**1.1169**	**.42772**	**1.0457**
Stddev	.0054	.01369	.0058	.00049	.0017
%RSD	.46469	36.941	.52116	.11490	.16009
#1	1.1644	.04675	1.1211	.42738	1.0469
#2	1.1568	.02739	1.1128	.42807	1.0445
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.97171**	**6.2783**	**1.0806**	**-.0193**	**1.0464**
Stddev	.00378	.0037	.0007	.0155	.0003
%RSD	.38888	.05809	.06744	80.46	.02511
#1	.97438	6.2809	1.0800	-.0083	1.0462
#2	.96904	6.2757	1.0811	-.0303	1.0465
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.0177**	**1.0398**	**.34357**	**29.561**	**.03277**
Stddev	.0132	.0014	.00400	.106	.00077
%RSD	.65187	.12951	1.1645	.35771	2.3487
#1	2.0270	1.0388	.34074	29.635	.03223
#2	2.0084	1.0407	.34640	29.486	.03331
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121246-A-1-K Acquired: 7/25/2017 14:56:02 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**19.772**	**1.3100**	**1.0068**	**2530.2**	**2.2743**
Stddev	.003	.0006	.0013	8.7	.0011
%RSD	.01380	.04395	.13116	.34406	.04790
#1	19.774	1.3104	1.0078	2536.3	2.2751
#2	19.770	1.3096	1.0059	2524.0	2.2736
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.1483**	F **318.78**	**1.0117**	**1.1424**	F **406.32**
Stddev	.0022	.16	.0016	.0035	.22
%RSD	.19584	.04892	.15606	.30253	.05292
#1	1.1467	318.67	1.0106	1.1399	406.47
#2	1.1499	318.89	1.0128	1.1448	406.17
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Fail
High Limit		90.000			50.000
Low Limit		-.20000			-.50000

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00323**	**.02830**	**.00202**	**.95888**	**1.0521**
Stddev	.00022	.00011	.00062	.00133	.0037
%RSD	6.8297	.37423	30.722	.13861	.35358
#1	.00338	.02837	.00246	.95982	1.0547
#2	.00307	.02822	.00158	.95794	1.0495
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121246-A-1-K Acquired: 7/25/2017 14:56:02 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**1.3756**
Stddev	.0093
%RSD	.67295
#1	1.3821
#2	1.3690
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2656.5**	**2103.9**	**14431.**	**3182.8**
Stddev	4.3	.7	38.	22.0
%RSD	.16032	.03477	.26092	.69261
#1	2653.5	2103.4	14404.	3167.2
#2	2659.6	2104.4	14457.	3198.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	70.844%	87.571%	83.374%	98.344%
Range				

Sample Name: MB 480-368424/1-A Acquired: 7/25/2017 14:59:26 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00046**	**.00451**	**.00006**	**.00150**	**.00027**
Stddev	.00035	.01795	.00044	.00053	.00002
%RSD	76.009	398.16	670.14	35.181	5.8310
#1	-.00071	.01720	.00037	.00113	.00028
#2	-.00021	-.00819	-.00024	.00188	.00025
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00011**	**.06104**	**.00014**	**.0069**	**.00004**
Stddev	.00003	.00279	.00006	.0000	.00008
%RSD	24.407	4.5760	42.369	.5038	230.79
#1	.00013	.06302	.00010	.0069	.00009
#2	.00009	.05906	.00018	.0069	-.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00121**	**.00081**	**.01727**	**.09382**	**-.00012**
Stddev	.00047	.00077	.00150	.03193	.00069
%RSD	38.714	95.348	8.6980	34.029	596.56
#1	.00088	.00026	.01621	.07125	.00037
#2	.00153	.00136	.01833	.11640	-.00061
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-368424/1-A Acquired: 7/25/2017 14:59:26 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00380**	**.00081**	**.00065**	**.32367**	**.00098**
Stddev	.00868	.00003	.00000	.00792	.00045
%RSD	228.23	4.2098	.50603	2.4478	45.624
#1	.00994	.00084	.00065	.32927	.00129
#2	-.00234	.00079	.00065	.31806	.00066
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00085**	**.04472**	**.00027**	**.00071**	F **1.2283**
Stddev	.00019	.00336	.00141	.00363	.1063
%RSD	22.507	7.5100	524.91	508.78	8.6560
#1	-.00098	.04709	-.00073	-.00185	1.3035
#2	-.00071	.04234	.00127	.00328	1.1531
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit					.50000
Low Limit					-.50000

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **.04748**	**.00017**	**.00061**	**-.00002**	**.00009**
Stddev	.00044	.00005	.00073	.00023	.00005
%RSD	.92821	28.686	119.92	1484.9	50.363
#1	.04717	.00014	.00113	-.00018	.00013
#2	.04780	.00021	.00009	.00015	.00006
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.01000				
Low Limit	-.01000				

Sample Name: MB 480-368424/1-A Acquired: 7/25/2017 14:59:26 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00181
Stddev	.00079
%RSD	43.626
#1	.00237
#2	.00125
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3786.8	2409.3	17224.	3299.0
Stddev	7.5	2.9	64.	5.6
%RSD	.19778	.12166	.37089	.17098
#1	3781.5	2407.2	17179.	3295.1
#2	3792.1	2411.4	17269.	3303.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	100.99%	100.28%	99.512%	101.94%
Range				

Sample Name: LCSSRM 480-368424/2- Acquired: 7/25/2017 15:02:54 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.52164	93.206	1.8749	.66393	3.5448
Stddev	.00018	.751	.0001	.00086	.0216
%RSD	.03483	.80589	.00400	.12882	.60930
#1	.52177	92.675	1.8748	.66454	3.5295
#2	.52151	93.737	1.8749	.66333	3.5600
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.93854	52.192	1.0781	1.520	2.0511
Stddev	.00507	.302	.0019	.033	.0000
%RSD	.54059	.57918	.17376	2.175	.00183
#1	.93495	51.978	1.0794	1.497	2.0512
#2	.94213	52.406	1.0768	1.544	2.0511
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.71848	.70374	137.85	27.328	.06875
Stddev	.00277	.00216	.72	.175	.00119
%RSD	.38614	.30731	.52525	.64091	1.7309
#1	.71651	.70221	137.34	27.205	.06791
#2	.72044	.70527	138.36	27.452	.06959
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
High Limit					
Low Limit					

Sample Name: LCSSRM 480-368424/2- Acquired: 7/25/2017 15:02:54 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**27.729**	**3.8981**	**.57176**	**5.8450**	**1.8975**
Stddev	.050	.0088	.00115	.0227	.0008
%RSD	.18188	.22498	.20142	.38926	.04239
#1	27.694	3.8919	.57258	5.8289	1.8969
#2	27.765	3.9043	.57095	5.8611	1.8981
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.76294**	**1.3510**	**.73510**	**.93487**	**4.9845**
Stddev	.00086	.0011	.00330	.00207	.0993
%RSD	.11220	.08208	.44953	.22089	1.9929
#1	.76233	1.3502	.73276	.93341	4.9143
#2	.76354	1.3517	.73743	.93633	5.0547
Check ?	Chk Pass	None	Chk Pass	Chk Pass	None
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.97474**	**1.3678**	**4.5992**	**1.5012**	**1.4596**
Stddev	.00155	.0060	.0085	.0002	.0023
%RSD	.15898	.44251	.18551	.01534	.15795
#1	.97584	1.3635	4.5931	1.5011	1.4580
#2	.97365	1.3721	4.6052	1.5014	1.4613
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: LCSSRM 480-368424/2- Acquired: 7/25/2017 15:02:54 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**3.0227**
Stddev	.0065
%RSD	.21571
#1	3.0181
#2	3.0273
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3273.8**	**2758.8**	**19378.**	**3864.4**
Stddev	1.0	3.5	35.	26.1
%RSD	.03099	.12811	.18133	.67568
#1	3273.1	2756.3	19402.	3882.9
#2	3274.5	2761.3	19353.	3846.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	87.304%	114.83%	111.96%	119.41%
Range				

Sample Name: 480-121420-D-1-B Acquired: 7/25/2017 15:06:09 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00125**	**105.00**	**.05857**	**.13102**	**.68627**
Stddev	.00001	.33	.00128	.00134	.00261
%RSD	.82033	.30968	2.1834	1.0235	.38061
#1	-.00124	104.77	.05766	.13197	.68443
#2	-.00126	105.23	.05947	.13007	.68812
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00427**	**251.43**	**.00238**	**.3483**	**.05716**
Stddev	.00005	1.91	.00001	.0003	.00010
%RSD	1.2686	.75772	.33463	.0857	.18281
#1	.00431	250.08	.00237	.3485	.05708
#2	.00423	252.78	.00238	.3480	.05723
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.17985**	**.16355**	**115.09**	**26.823**	**.17066**
Stddev	.00068	.00120	.42	.106	.00188
%RSD	.37645	.73207	.36850	.39438	1.1036
#1	.18033	.16270	114.79	26.749	.17200
#2	.17937	.16440	115.39	26.898	.16933
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121420-D-1-B Acquired: 7/25/2017 15:06:09 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**64.087**	**3.2169**	**.01146**	**.98185**	**.13875**
Stddev	.218	.0070	.00001	.00278	.00012
%RSD	.33976	.21894	.12003	.28309	.08879
#1	63.933	3.2119	.01147	.98381	.13883
#2	64.241	3.2219	.01145	.97988	.13866
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19398**	**5.3502**	**.00234**	**.00102**	**9.6229**
Stddev	.00023	.0102	.00160	.00101	.0124
%RSD	.11626	.19047	68.187	99.079	.12875
#1	.19382	5.3574	.00121	.00031	9.6141
#2	.19414	5.3430	.00347	.00174	9.6316
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.06479**	**.37068**	**1.4416**	**-.00121**	**.20974**
Stddev	.00027	.00095	.0115	.00216	.00034
%RSD	.41436	.25540	.79706	178.31	.16275
#1	.06460	.37001	1.4335	-.00274	.20998
#2	.06498	.37135	1.4497	.00032	.20950
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121420-D-1-B Acquired: 7/25/2017 15:06:09 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.45958**
Stddev	.00148
%RSD	.32289
#1	.45853
#2	.46063
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3091.9**	**2575.5**	**18000.**	**3688.0**
Stddev	.4	2.8	80.	22.3
%RSD	.01374	.10890	.44394	.60539
#1	3091.6	2573.5	18057.	3703.8
#2	3092.2	2577.5	17944.	3672.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	82.454%	107.20%	104.00%	113.96%
Range				

Sample Name: 480-121321-B-1-C Acquired: 7/25/2017 15:09:39 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00174**	**159.66**	**.03431**	**.07514**	**.73390**
Stddev	.00056	.14	.00068	.00008	.00040
%RSD	31.847	.09022	1.9836	.10296	.05488
#1	-.00135	159.56	.03383	.07509	.73418
#2	-.00214	159.76	.03479	.07520	.73361
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00808**	**37.661**	**.00029**	**.3998**	**.06070**
Stddev	.00009	.136	.00009	.0139	.00023
%RSD	1.1473	.36203	30.424	3.482	.38358
#1	.00814	37.565	.00023	.4096	.06054
#2	.00801	37.758	.00035	.3899	.06087
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20105**	**.17784**	**239.40**	**15.253**	**.13151**
Stddev	.00118	.00223	.42	.030	.00192
%RSD	.58501	1.2514	.17407	.19640	1.4608
#1	.20188	.17942	239.11	15.274	.13287
#2	.20021	.17627	239.70	15.232	.13015
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121321-B-1-C Acquired: 7/25/2017 15:09:39 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.045**	**1.0689**	**.00563**	**.88163**	**.16427**
Stddev	.047	.0040	.00003	.02181	.00031
%RSD	.18758	.37883	.46849	2.4739	.19034
#1	25.078	1.0718	.00564	.89705	.16404
#2	25.012	1.0661	.00561	.86621	.16449
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.12698**	**.80096**	**-.00007**	**.00324**	**6.0306**
Stddev	.00074	.00137	.00054	.00095	.0253
%RSD	.58270	.17134	784.94	29.347	.42002
#1	.12646	.80193	.00031	.00391	6.0485
#2	.12751	.79999	-.00045	.00257	6.0127
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.06393**	**.18255**	**1.8947**	**-.00144**	**.36877**
Stddev	.00028	.00019	.0097	.00357	.00023
%RSD	.43754	.10332	.51164	247.73	.06273
#1	.06373	.18242	1.9015	-.00396	.36893
#2	.06413	.18268	1.8878	.00108	.36860
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121321-B-1-C Acquired: 7/25/2017 15:09:39 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.48922**
Stddev	.00032
%RSD	.06616
#1	.48945
#2	.48899
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3246.0**	**2748.4**	**19099.**	**3844.2**
Stddev	2.9	1.3	7.	1.0
%RSD	.08837	.04599	.03491	.02703
#1	3244.0	2747.5	19094.	3845.0
#2	3248.0	2749.3	19104.	3843.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	86.563%	114.40%	110.35%	118.78%
Range				

Sample Name: 480-121321-A-2-E Acquired: 7/25/2017 15:13:02 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00250**	**129.60**	**.01944**	**.06898**	**.58957**
Stddev	.00099	.09	.00048	.00125	.00215
%RSD	39.802	.06746	2.4665	1.8113	.36524
#1	-.00320	129.67	.01910	.06809	.58804
#2	-.00179	129.54	.01978	.06986	.59109
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00370**	**79.085**	**.00020**	**.3057**	**.03704**
Stddev	.00007	.098	.00000	.0030	.00006
%RSD	1.9583	.12357	.61120	.9834	.16218
#1	.00375	79.016	.00020	.3078	.03708
#2	.00365	79.154	.00020	.3035	.03700
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.14448**	**.05256**	**93.287**	**12.752**	**.12940**
Stddev	.00076	.00061	.023	.055	.00104
%RSD	.52577	1.1567	.02424	.43310	.80019
#1	.14394	.05299	93.271	12.713	.12867
#2	.14502	.05213	93.303	12.791	.13013
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121321-A-2-E Acquired: 7/25/2017 15:13:02 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**20.180**	**.50328**	**.00185**	**1.7845**	**.11205**
Stddev	.047	.00205	.00012	.0065	.00034
%RSD	.23488	.40773	6.2289	.36547	.29902
#1	20.146	.50183	.00177	1.7891	.11182
#2	20.213	.50473	.00194	1.7799	.11229
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.06229**	**.98600**	**.00145**	**-.00207**	**7.9520**
Stddev	.00144	.00028	.00161	.00004	.1094
%RSD	2.3085	.02835	111.45	2.0734	1.3762
#1	.06127	.98619	.00259	-.00204	8.0294
#2	.06331	.98580	.00031	-.00210	7.8746
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05829**	**.16621**	**2.3441**	**-.00028**	**.24826**
Stddev	.00085	.00051	.0188	.00064	.00294
%RSD	1.4624	.30704	.80352	230.78	1.1846
#1	.05769	.16657	2.3308	-.00073	.24618
#2	.05890	.16585	2.3574	.00017	.25033
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121321-A-2-E Acquired: 7/25/2017 15:13:02 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.33757**
Stddev	.00585
%RSD	1.7329
#1	.33343
#2	.34170
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3304.3**	**2630.0**	**18137.**	**3701.5**
Stddev	9.4	3.4	185.	2.0
%RSD	.28407	.12913	1.0174	.05459
#1	3297.6	2627.6	18268.	3700.1
#2	3310.9	2632.4	18007.	3703.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	88.117%	109.47%	104.79%	114.37%
Range				

Sample Name: 480-121321-A-3-E Acquired: 7/25/2017 15:16:30 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00180**	**85.748**	**.03020**	**.08025**	**.44908**
Stddev	.00131	.059	.00133	.00003	.00070
%RSD	73.027	.06836	4.4104	.03440	.15617
#1	-.00087	85.790	.02926	.08023	.44958
#2	-.00273	85.707	.03114	.08027	.44859
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00303**	**311.13**	**.01102**	**.3256**	**.04504**
Stddev	.00003	.65	.00003	.0062	.00013
%RSD	1.1084	.21027	.29893	1.909	.28861
#1	.00305	311.59	.01100	.3300	.04495
#2	.00300	310.67	.01105	.3212	.04513
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.13583**	**.31883**	**125.94**	**15.740**	**.08592**
Stddev	.00048	.00387	.28	.084	.00023
%RSD	.35347	1.2152	.22369	.53647	.26781
#1	.13549	.32157	126.14	15.800	.08576
#2	.13617	.31609	125.74	15.680	.08608
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121321-A-3-E Acquired: 7/25/2017 15:16:30 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**108.48**	**2.4575**	**.00554**	**1.3434**	**.13475**
Stddev	.19	.0040	.00045	.0021	.00107
%RSD	.17361	.16284	8.0493	.15966	.79099
#1	108.61	2.4603	.00522	1.3450	.13399
#2	108.34	2.4547	.00585	1.3419	.13550
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.22689**	**2.5929**	**.00105**	**-.00041**	**8.7674**
Stddev	.00072	.0099	.00051	.00242	.0200
%RSD	.31600	.38272	48.742	596.07	.22814
#1	.22740	2.6000	.00141	-.00212	8.7816
#2	.22639	2.5859	.00069	.00131	8.7533
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20557**	**.43889**	**1.9461**	**-.00172**	**.20126**
Stddev	.00107	.00026	.0074	.00185	.00048
%RSD	.51970	.05824	.38020	107.51	.23654
#1	.20481	.43871	1.9409	-.00041	.20160
#2	.20632	.43907	1.9513	-.00303	.20092
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121321-A-3-E Acquired: 7/25/2017 15:16:30 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.84931
Stddev	.00213
%RSD	.25036
#1	.85081
#2	.84781
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3019.7	2490.7	17542.	3590.1
Stddev	1.8	.9	38.	23.6
%RSD	.05820	.03518	.21925	.65676
#1	3020.9	2491.3	17515.	3573.4
#2	3018.4	2490.1	17570.	3606.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	80.528%	103.67%	101.35%	110.93%
Range				

Sample Name: 480-121321-A-4-I Acquired: 7/25/2017 15:19:53 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00084**	**82.524**	**.02003**	**.08186**	**.36690**
Stddev	.00006	.206	.00120	.00014	.00039
%RSD	6.9520	.24972	6.0030	.16749	.10725
#1	-.00088	82.378	.01918	.08177	.36662
#2	-.00080	82.670	.02088	.08196	.36718
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00206**	**113.92**	**.00137**	**.2074**	**.02202**
Stddev	.00009	.10	.00006	.0071	.00011
%RSD	4.1283	.09115	4.2919	3.432	.51421
#1	.00212	113.99	.00132	.2023	.02210
#2	.00200	113.84	.00141	.2124	.02194
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.09310**	**.13526**	**62.661**	**10.265**	**.08984**
Stddev	.00040	.00120	.034	.049	.00016
%RSD	.43135	.88565	.05397	.48187	.17678
#1	.09282	.13611	62.685	10.300	.08972
#2	.09339	.13442	62.637	10.230	.08995
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121321-A-4-I Acquired: 7/25/2017 15:19:53 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**46.194**	**.89282**	**.00258**	**2.9546**	**.08137**
Stddev	.061	.00045	.00045	.0018	.00019
%RSD	.13305	.05037	17.621	.06176	.23897
#1	46.237	.89314	.00226	2.9559	.08151
#2	46.150	.89251	.00290	2.9533	.08124
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.10581**	**3.2803**	**.00203**	**.00267**	**6.7804**
Stddev	.00174	.0036	.00053	.00011	.0142
%RSD	1.6414	.10920	26.349	4.2444	.20946
#1	.10458	3.2778	.00241	.00259	6.7905
#2	.10704	3.2829	.00165	.00275	6.7704
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05849**	**.20587**	**1.2873**	**-.00212**	**.15354**
Stddev	.00086	.00015	.0010	.00044	.00058
%RSD	1.4745	.07204	.07662	20.805	.37575
#1	.05910	.20577	1.2866	-.00244	.15313
#2	.05788	.20598	1.2880	-.00181	.15394
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121321-A-4-I Acquired: 7/25/2017 15:19:53 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.42447**
Stddev	.00112
%RSD	.26365
#1	.42368
#2	.42526
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3293.3**	**2499.3**	**17355.**	**3514.6**
Stddev	2.3	2.2	61.	39.0
%RSD	.06874	.08835	.35346	1.1110
#1	3291.7	2497.8	17398.	3487.0
#2	3294.9	2500.9	17311.	3542.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	87.825%	104.03%	100.27%	108.60%
Range				

Sample Name: 480-121321-A-4-Isd@5 Acquired: 7/25/2017 15:23:14 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00026**	**16.078**	**.00281**	**.02057**	**.07041**
Stddev	.00017	.019	.00090	.00028	.00017
%RSD	65.567	.11903	31.915	1.3524	.23947
#1	.00037	16.065	.00217	.02037	.07052
#2	.00014	16.092	.00344	.02076	.07029
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00046**	**22.336**	**.00014**	**.0417**	**.00403**
Stddev	.00002	.139	.00016	.0191	.00017
%RSD	5.2030	.62244	108.25	45.82	4.3443
#1	.00048	22.435	.00026	.0282	.00415
#2	.00045	22.238	.00003	.0552	.00390
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01772**	**.02451**	**12.334**	**1.9831**	**.01850**
Stddev	.00020	.00089	.081	.0440	.00116
%RSD	1.1097	3.6387	.65424	2.2175	6.2955
#1	.01758	.02388	12.391	2.0141	.01768
#2	.01786	.02514	12.277	1.9520	.01933
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121321-A-4-Isd@5 Acquired: 7/25/2017 15:23:14 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.0931**	**.17741**	**.00034**	**.60037**	**.01519**
Stddev	.0396	.00079	.00010	.00503	.00052
%RSD	.43523	.44782	28.792	.83721	3.4236
#1	9.1211	.17797	.00041	.60393	.01556
#2	9.0651	.17685	.00027	.59682	.01483
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01766**	**.63452**	**-.00046**	**-.00034**	**1.3132**
Stddev	.00033	.00587	.00414	.00015	.0042
%RSD	1.8835	.92502	896.62	43.620	.31716
#1	.01790	.63867	-.00339	-.00044	1.3102
#2	.01743	.63037	.00247	-.00023	1.3161
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01009**	**.04075**	**.24565**	**.00079**	**.02990**
Stddev	.00020	.00016	.00011	.00206	.00060
%RSD	2.0010	.40139	.04603	260.03	2.0064
#1	.01023	.04086	.24557	-.00066	.03032
#2	.00995	.04063	.24573	.00225	.02947
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121321-A-4-Isd@5 Acquired: 7/25/2017 15:23:14 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.08646
Stddev	.00004
%RSD	.04532
#1	.08649
#2	.08643
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3616.9	2460.6	17148.	3334.8
Stddev	5.4	4.8	7.	16.9
%RSD	.14976	.19424	.04064	.50623
#1	3620.7	2464.0	17143.	3322.9
#2	3613.1	2457.2	17153.	3346.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	96.454%	102.42%	99.071%	103.04%
Range				

Sample Name: CCV-4147885 Acquired: 7/25/2017 15:26:39 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51686**	**24.681**	**.50359**	**.49265**	**.47724**
Stddev	.00122	.068	.00384	.00089	.00061
%RSD	.23629	.27436	.76304	.18148	.12838
#1	.51600	24.633	.50088	.49201	.47681
#2	.51773	24.729	.50631	.49328	.47768
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.48614**	**24.515**	**.49405**	**-.0217**	**.48871**
Stddev	.00111	.045	.00072	.0018	.00064
%RSD	.22743	.18175	.14660	8.122	.13135
#1	.48536	24.484	.49353	-.0205	.48916
#2	.48692	24.547	.49456	-.0230	.48826
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.53358**	**.47914**	**23.499**	**23.999**	**.49155**
Stddev	.00178	.00083	.047	.054	.00288
%RSD	.33276	.17321	.19879	.22321	.58619
#1	.53233	.47855	23.532	23.962	.48951
#2	.53484	.47972	23.466	24.037	.49359
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4147885 Acquired: 7/25/2017 15:26:39 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.799**	**.50425**	**.50546**	**24.428**	**.49342**
Stddev	.095	.00057	.00095	.030	.00020
%RSD	.38407	.11282	.18872	.12202	.04140
#1	24.732	.50385	.50478	24.407	.49357
#2	24.867	.50466	.50613	24.449	.49328
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49806**	**24.441**	**.49000**	**.50273**	**23.957**
Stddev	.00020	.024	.00050	.00024	.102
%RSD	.03921	.09848	.10205	.04803	.42682
#1	.49793	24.424	.48965	.50290	23.884
#2	.49820	24.458	.49036	.50255	24.029
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49972**	**.49379**	**.51047**	**.50738**	**.51730**
Stddev	.00181	.00202	.00142	.00160	.00218
%RSD	.36172	.40993	.27750	.31468	.42178
#1	.50100	.49235	.50947	.50625	.51576
#2	.49844	.49522	.51147	.50851	.51885
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4147885 Acquired: 7/25/2017 15:26:39 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	**.51851**
Stddev	.00227
%RSD	.43774
#1	.51690
#2	.52011
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3461.5**	**2408.7**	**16856.**	**3241.6**
Stddev	3.4	2.3	79.	8.4
%RSD	.09749	.09701	.46956	.25834
#1	3459.1	2410.3	16912.	3247.6
#2	3463.9	2407.0	16800.	3235.7

Sample Name: CCB-4130963 Acquired: 7/25/2017 15:29:52 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00046**	**.02060**	**.00053**	**.00030**	**.00049**
Stddev	.00084	.00097	.00004	.00000	.00004
%RSD	181.70	4.6859	7.3854	.83968	7.9534
#1	.00013	.02129	.00050	.00029	.00052
#2	-.00106	.01992	.00056	.00030	.00046
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00006**	**.04556**	**.00005**	**-.0077**	**.00015**
Stddev	.00008	.01410	.00006	.0250	.00018
%RSD	125.28	30.953	115.93	323.8	120.19
#1	.00001	.03559	.00009	-.0254	.00027
#2	.00012	.05554	.00001	.0100	.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00053**	**.00152**	**.02115**	**.00504**	**.00004**
Stddev	.00096	.00033	.00685	.04283	.00080
%RSD	179.80	21.827	32.388	849.94	2074.5
#1	.00121	.00128	.01631	-.02525	-.00053
#2	-.00014	.00175	.02599	.03533	.00060
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4130963 Acquired: 7/25/2017 15:29:52 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.02394**	F **.01062**	**.00014**	**.17307**	**.00026**
Stddev	.00238	.00058	.00015	.05516	.00005
%RSD	9.9435	5.4169	111.59	31.870	18.191
#1	.02226	.01103	.00025	.13407	.00030
#2	.02563	.01021	.00003	.21207	.00023
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		.00300			
Low Limit		-.00300			

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00041**	**.00636**	**.00085**	**-.00172**	**.03549**
Stddev	.00038	.00803	.00097	.00046	.00295
%RSD	94.238	126.21	114.87	26.505	8.3176
#1	-.00068	.01204	.00153	-.00205	.03757
#2	-.00014	.00068	.00016	-.00140	.03340
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00059**	**.00040**	**.00018**	**-.00026**	**.00061**
Stddev	.00002	.00018	.00067	.00053	.00040
%RSD	2.9701	45.883	371.09	202.37	65.162
#1	-.00060	.00027	.00066	-.00064	.00033
#2	-.00058	.00053	-.00029	.00011	.00089
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4130963 Acquired: 7/25/2017 15:29:52 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.00088
Stddev	.00004
%RSD	4.4746
#1	.00091
#2	.00085
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3782.6	2437.0	17204.	3246.2
Stddev	3.9	.8	67.	10.9
%RSD	.10219	.03229	.39054	.33461
#1	3779.9	2436.4	17156.	3238.5
#2	3785.3	2437.5	17251.	3253.8

Sample Name: CCVL-4147888 Acquired: 7/25/2017 15:33:21 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00609**	**.21083**	**.01638**	**.01915**	**.00205**
Stddev	.00094	.00714	.00054	.00003	.00002
%RSD	15.433	3.3857	3.2694	.14601	.80299
#1	.00542	.20579	.01676	.01913	.00206
#2	.00675	.21588	.01600	.01917	.00204
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00203**	**.49862**	**.00186**	**.0084**	**.00382**
Stddev	.00001	.00203	.00016	.0056	.00010
%RSD	.59764	.40762	8.5673	66.25	2.5570
#1	.00202	.50005	.00174	.0123	.00389
#2	.00204	.49718	.00197	.0045	.00376
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00418**	**.00917**	**.05133**	**.48048**	**.03040**
Stddev	.00014	.00004	.00306	.00703	.00113
%RSD	3.2570	.44295	5.9602	1.4625	3.7303
#1	.00408	.00914	.05349	.47551	.02960
#2	.00427	.00920	.04917	.48545	.03120
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4147888 Acquired: 7/25/2017 15:33:21 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19978**	**.00386**	**.01040**	**1.0113**	**.00973**
Stddev	.00272	.00001	.00005	.0081	.00004
%RSD	1.3603	.32050	.43538	.79824	.36640
#1	.19785	.00387	.01037	1.0056	.00976
#2	.20170	.00385	.01044	1.0170	.00971
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00970**	**.19214**	**.02035**	**.02290**	**.51513**
Stddev	.00089	.00023	.00103	.00328	.00270
%RSD	9.1425	.11877	5.0377	14.321	.52327
#1	.00907	.19198	.02107	.02522	.51323
#2	.01032	.19230	.01962	.02058	.51704
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00882**	**.00504**	**.00449**	**.01959**	**.00518**
Stddev	.00014	.00007	.00027	.00117	.00021
%RSD	1.6208	1.3987	6.0025	5.9591	3.9876
#1	.00872	.00509	.00468	.02041	.00533
#2	.00892	.00499	.00430	.01876	.00504
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4147888 Acquired: 7/25/2017 15:33:21 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.01140
Stddev	.00021
%RSD	1.8598
#1	.01155
#2	.01125
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3811.8	2462.9	17293.	3276.0
Stddev	3.7	3.1	135.	1.3
%RSD	.09715	.12409	.77834	.03831
#1	3809.2	2460.7	17198.	3276.9
#2	3814.4	2465.0	17388.	3275.1

Sample Name: 480-121321-A-4-I pds Acquired: 7/25/2017 15:36:49 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.09717	99.015	.40372	.43459	.71945
Stddev	.00069	.319	.00036	.00006	.00463
%RSD	.71000	.32205	.08810	.01457	.64393
#1	.09765	99.240	.40347	.43463	.72272
#2	.09668	98.789	.40397	.43454	.71617
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.37163	129.04	.38205	.2007	.41345
Stddev	.00107	.66	.00033	.0122	.00010
%RSD	.28843	.50793	.08710	6.100	.02450
#1	.37239	129.50	.38228	.1920	.41338
#2	.37087	128.58	.38181	.2093	.41352
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.49252	.50086	79.292	28.053	.46497
Stddev	.00289	.00330	.388	.071	.00294
%RSD	.58712	.65884	.48885	.25338	.63207
#1	.49457	.50319	79.566	28.104	.46705
#2	.49048	.49852	79.018	28.003	.46289
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121321-A-4-I pds Acquired: 7/25/2017 15:36:49 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**63.992**	**1.2387**	**.37950**	**21.245**	**.47100**
Stddev	.408	.0060	.00016	.087	.00091
%RSD	.63820	.48009	.04248	.41009	.19369
#1	64.281	1.2429	.37939	21.306	.47164
#2	63.704	1.2345	.37962	21.183	.47035
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51507**	**3.2390**	**.38139**	**.38685**	**6.6691**
Stddev	.00244	.0058	.00201	.00225	.0876
%RSD	.47353	.17953	.52703	.58177	1.3129
#1	.51334	3.2349	.38282	.38845	6.7310
#2	.51679	3.2431	.37997	.38526	6.6072
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05804**	**.57914**	**1.6413**	**.40368**	**.55174**
Stddev	.00012	.00183	.0337	.00042	.00240
%RSD	.21295	.31646	2.0539	.10470	.43474
#1	.05813	.58044	1.6651	.40338	.55343
#2	.05796	.57785	1.6174	.40398	.55004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121321-A-4-I pds Acquired: 7/25/2017 15:36:49 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.80347**
Stddev	.00326
%RSD	.40519
#1	.80577
#2	.80116
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3191.3**	**2464.3**	**17155.**	**3495.6**
Stddev	2.9	2.2	74.	7.4
%RSD	.08992	.08756	.42872	.21208
#1	3189.2	2462.8	17103.	3490.4
#2	3193.3	2465.8	17207.	3500.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	85.103%	102.57%	99.114%	108.01%
Range				

Sample Name: 480-121321-B-4-H MS Acquired: 7/25/2017 15:40:07 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.09194**	**128.58**	**.37988**	**.45029**	**.83405**
Stddev	.00113	.30	.00103	.00062	.00789
%RSD	1.2312	.23064	.27084	.13716	.94627
#1	.09274	128.79	.38061	.44985	.83963
#2	.09114	128.37	.37916	.45073	.82847
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.34442**	**211.44**	**.35851**	**.2853**	**.40745**
Stddev	.00204	.92	.00040	.0276	.00012
%RSD	.59174	.43359	.11153	9.661	.02857
#1	.34587	212.09	.35879	.3048	.40753
#2	.34298	210.80	.35822	.2658	.40736
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49483**	**.44375**	**110.13**	**39.957**	**.45300**
Stddev	.00018	.00065	.65	.362	.00300
%RSD	.03544	.14576	.59459	.90682	.66244
#1	.49495	.44420	110.60	40.214	.45512
#2	.49470	.44329	109.67	39.701	.45087
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121321-B-4-H MS Acquired: 7/25/2017 15:40:07 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**106.25**	**1.9364**	**.34680**	**20.941**	**.46305**
Stddev	.13	.0027	.00004	.127	.00100
%RSD	.12085	.14111	.01265	.60760	.21559
#1	106.16	1.9345	.34677	21.031	.46375
#2	106.34	1.9383	.34683	20.851	.46234
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.48574**	**19.636**	**.30181**	**.35289**	**6.6056**
Stddev	.00028	.036	.00174	.00714	.0134
%RSD	.05858	.18393	.57667	2.0241	.20218
#1	.48594	19.661	.30304	.34784	6.5961
#2	.48554	19.610	.30058	.35794	6.6150
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.45871**	**.65036**	**3.4379**	**.38295**	**.60961**
Stddev	.00027	.00138	.0028	.00280	.00144
%RSD	.05829	.21230	.08027	.73021	.23603
#1	.45852	.65134	3.4360	.38097	.60860
#2	.45890	.64938	3.4399	.38492	.61063
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121321-B-4-H MS Acquired: 7/25/2017 15:40:07 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.73200
Stddev	.00032
%RSD	.04419
#1	.73223
#2	.73177
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3061.7	2503.7	17433.	3582.4
Stddev	4.5	3.9	70.	26.8
%RSD	.14736	.15438	.40048	.74877
#1	3058.5	2501.0	17384.	3563.4
#2	3064.9	2506.4	17483.	3601.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	81.648%	104.21%	100.72%	110.69%
Range				

Sample Name: 480-121321-B-4-I MSD Acquired: 7/25/2017 15:43:25 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.09525**	**112.17**	**.40309**	**.46215**	**.77849**
Stddev	.00037	.65	.00093	.00074	.00176
%RSD	.39084	.57728	.23169	.16061	.22586
#1	.09499	111.71	.40375	.46163	.77724
#2	.09551	112.63	.40243	.46268	.77973
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.35158**	**331.30**	**.37035**	**.3362**	**.43793**
Stddev	.00258	3.18	.00115	.0204	.00009
%RSD	.73263	.96011	.31038	6.071	.02145
#1	.34976	329.05	.36953	.3218	.43786
#2	.35340	333.55	.37116	.3506	.43799
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49969**	**.44062**	**119.51**	**40.381**	**.45047**
Stddev	.00128	.00280	.97	.264	.00167
%RSD	.25636	.63630	.80767	.65472	.37090
#1	.49878	.43864	118.82	40.194	.44928
#2	.50059	.44260	120.19	40.568	.45165
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121321-B-4-I MSD Acquired: 7/25/2017 15:43:25 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**138.56**	**3.4878**	**.35637**	**21.721**	**.48764**
Stddev	.38	.0088	.00001	.109	.00033
%RSD	.27071	.25257	.00287	.50339	.06830
#1	138.29	3.4816	.35636	21.644	.48740
#2	138.82	3.4940	.35638	21.798	.48787
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.48588**	**19.794**	**.32123**	**.36465**	**6.7010**
Stddev	.00035	.024	.00308	.00134	.0140
%RSD	.07287	.12270	.95802	.36788	.20836
#1	.48613	19.777	.31905	.36371	6.6911
#2	.48563	19.812	.32340	.36560	6.7109
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.48453**	**.78243**	**3.7792**	**.40267**	**.62843**
Stddev	.00198	.00096	.0071	.00010	.00023
%RSD	.40948	.12250	.18699	.02567	.03588
#1	.48312	.78175	3.7742	.40275	.62859
#2	.48593	.78311	3.7842	.40260	.62827
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121321-B-4-I MSD Acquired: 7/25/2017 15:43:25 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.71700
Stddev	.00003
%RSD	.00405
#1	.71698
#2	.71702
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2954.9	2507.8	17566.	3638.3
Stddev	.0	.1	15.	44.6
%RSD	.00047	.00201	.08371	1.2256
#1	2954.9	2507.7	17577.	3669.8
#2	2954.9	2507.8	17556.	3606.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	78.799%	104.38%	101.49%	112.42%
Range				

Sample Name: 480-121321-B-5-D Acquired: 7/25/2017 15:46:48 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00207**	**76.477**	**.02042**	**.06945**	**.31629**
Stddev	.00026	.164	.00259	.00040	.00131
%RSD	12.487	.21419	12.689	.57117	.41564
#1	-.00189	76.361	.02225	.06973	.31722
#2	-.00226	76.593	.01859	.06917	.31537
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00283**	**174.13**	**.00059**	**.3324**	**.03240**
Stddev	.00001	.40	.00008	.0109	.00017
%RSD	.19000	.23195	13.540	3.289	.52588
#1	.00283	173.84	.00064	.3246	.03228
#2	.00283	174.41	.00053	.3401	.03252
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.10510**	**.07410**	**92.546**	**10.967**	**.08435**
Stddev	.00027	.00017	.644	.041	.00011
%RSD	.25849	.22732	.69609	.37093	.13548
#1	.10491	.07398	92.090	10.938	.08443
#2	.10530	.07422	93.001	10.995	.08427
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121321-B-5-D Acquired: 7/25/2017 15:46:48 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**77.057**	**1.5333**	**.00211**	**2.1775**	**.08786**
Stddev	.137	.0036	.00009	.0229	.00045
%RSD	.17744	.23755	4.4503	1.0497	.51510
#1	77.153	1.5359	.00217	2.1613	.08818
#2	76.960	1.5307	.00204	2.1936	.08754
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.07374**	**1.0438**	**.00112**	**-.00056**	**5.6969**
Stddev	.00154	.0016	.00148	.00497	.0010
%RSD	2.0919	.15363	132.40	886.11	.01799
#1	.07483	1.0427	.00007	.00295	5.6977
#2	.07264	1.0450	.00217	-.00408	5.6962
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05769**	**.22537**	**2.2512**	**-.00225**	**.20302**
Stddev	.00032	.00112	.0013	.00087	.00183
%RSD	.55626	.49517	.05934	38.710	.90206
#1	.05792	.22459	2.2522	-.00163	.20172
#2	.05746	.22616	2.2503	-.00286	.20431
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121321-B-5-D Acquired: 7/25/2017 15:46:48 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.33760
Stddev	.00115
%RSD	.33929
#1	.33679
#2	.33841
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3166.9	2597.1	18252.	3680.4
Stddev	.7	1.5	5.	3.2
%RSD	.02314	.05626	.02676	.08780
#1	3166.4	2596.1	18248.	3678.1
#2	3167.4	2598.2	18255.	3682.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	84.453%	108.10%	105.45%	113.72%
Range				

Sample Name: 480-121321-B-6-D Acquired: 7/25/2017 15:50:10 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00176**	**113.98**	**.02997**	**.07943**	**.49824**
Stddev	.00009	.79	.00162	.00059	.00589
%RSD	4.8312	.69429	5.3963	.74872	1.1827
#1	-.00170	113.42	.03111	.07985	.50241
#2	-.00182	114.54	.02882	.07901	.49407
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00333**	**103.83**	**.00048**	**.3377**	**.03815**
Stddev	.00013	.55	.00003	.0161	.00000
%RSD	3.9248	.53305	7.1481	4.778	.00039
#1	.00324	103.44	.00045	.3263	.03815
#2	.00343	104.22	.00050	.3491	.03815
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.13768**	**.09094**	**123.68**	**12.358**	**.11464**
Stddev	.00093	.00088	.42	.010	.00100
%RSD	.67545	.96449	.33667	.08383	.86811
#1	.13702	.09156	123.38	12.365	.11394
#2	.13834	.09032	123.97	12.351	.11535
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121321-B-6-D Acquired: 7/25/2017 15:50:10 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**53.356**	**2.3949**	**.00247**	**2.7484**	**.11448**
Stddev	.166	.0028	.00020	.0063	.00074
%RSD	.31046	.11504	8.1927	.22918	.64338
#1	53.238	2.3929	.00232	2.7439	.11396
#2	53.473	2.3968	.00261	2.7528	.11501
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.08841**	**1.3864**	**.00120**	**.00358**	**5.8094**
Stddev	.00363	.0002	.00115	.00210	.0427
%RSD	4.1114	.01636	95.787	58.864	.73473
#1	.08584	1.3866	.00039	.00209	5.7792
#2	.09098	1.3863	.00201	.00506	5.8395
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.06030**	**.18890**	**1.8529**	**-.00177**	**.24885**
Stddev	.00008	.00130	.0169	.00232	.00257
%RSD	.12938	.68901	.91015	130.71	1.0312
#1	.06035	.18798	1.8410	-.00013	.24704
#2	.06024	.18982	1.8649	-.00341	.25067
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121321-B-6-D Acquired: 7/25/2017 15:50:10 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.39853
Stddev	.00055
%RSD	.13734
#1	.39814
#2	.39892
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3229.7	2598.3	18141.	3661.6
Stddev	3.4	1.5	11.	15.1
%RSD	.10462	.05655	.06041	.41259
#1	3232.1	2597.3	18149.	3672.3
#2	3227.3	2599.4	18133.	3650.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	86.128%	108.15%	104.81%	113.14%
Range				

Sample Name: 480-121419-C-1-B Acquired: 7/25/2017 15:53:36 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00122**	**48.337**	**.02788**	**.06224**	**.25450**
Stddev	.00087	.107	.00035	.00002	.00122
%RSD	71.498	.22078	1.2646	.03199	.48027
#1	-.00184	48.262	.02763	.06225	.25363
#2	-.00060	48.413	.02813	.06222	.25536
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00203**	**331.84**	**.00049**	**.3197**	**.04226**
Stddev	.00000	2.07	.00016	.0028	.00001
%RSD	.22328	.62480	33.364	.8608	.03229
#1	.00202	330.38	.00061	.3178	.04227
#2	.00203	333.31	.00038	.3217	.04225
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.07349**	**.20121**	**69.697**	**12.272**	**.08300**
Stddev	.00018	.00000	.315	.035	.00097
%RSD	.24776	.00187	.45217	.28849	1.1713
#1	.07336	.20121	69.475	12.247	.08232
#2	.07362	.20121	69.920	12.297	.08369
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121419-C-1-B Acquired: 7/25/2017 15:53:36 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**70.317**	**2.5036**	**.00372**	**.59728**	**.07974**
Stddev	.117	.0007	.00012	.00151	.00034
%RSD	.16622	.02678	3.2760	.25251	.42710
#1	70.234	2.5032	.00364	.59835	.07950
#2	70.400	2.5041	.00381	.59622	.07998
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.08525**	**2.2430**	**-.00025**	**-.00237**	**10.631**
Stddev	.00061	.0037	.00030	.00071	.029
%RSD	.71862	.16463	120.00	29.744	.27647
#1	.08482	2.2404	-.00004	-.00187	10.651
#2	.08568	2.2456	-.00046	-.00287	10.610
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05191**	**.43623**	**.94543**	**-.00209**	**.10322**
Stddev	.00047	.00078	.01385	.00049	.00001
%RSD	.90939	.17828	1.4653	23.599	.01033
#1	.05224	.43568	.93564	-.00244	.10321
#2	.05157	.43678	.95523	-.00174	.10323
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121419-C-1-B Acquired: 7/25/2017 15:53:36 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.21571
Stddev	.00206
%RSD	.95386
#1	.21716
#2	.21425
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3091.6	2532.9	17740.	3635.2
Stddev	.1	.7	116.	22.8
%RSD	.00250	.02929	.65317	.62643
#1	3091.7	2532.4	17658.	3651.3
#2	3091.6	2533.4	17822.	3619.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	82.447%	105.43%	102.49%	112.32%
Range				

Sample Name: 480-121419-C-2-B Acquired: 7/25/2017 15:57:03 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00183**	**73.804**	**.04060**	**.08342**	**.51592**
Stddev	.00039	.082	.00080	.00021	.00116
%RSD	21.501	.11123	1.9686	.25221	.22528
#1	-.00211	73.746	.04117	.08357	.51510
#2	-.00155	73.862	.04004	.08327	.51675
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00320**	**125.35**	**.00195**	**.2700**	**.04749**
Stddev	.00010	.25	.00018	.0204	.00021
%RSD	3.0280	.19551	9.2989	7.552	.44570
#1	.00313	125.18	.00207	.2556	.04734
#2	.00327	125.53	.00182	.2844	.04764
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.12162**	**.15462**	**95.479**	**17.269**	**.13248**
Stddev	.00168	.00096	.120	.044	.00242
%RSD	1.3805	.61894	.12545	.25516	1.8281
#1	.12281	.15530	95.564	17.238	.13419
#2	.12043	.15395	95.394	17.300	.13077
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121419-C-2-B Acquired: 7/25/2017 15:57:03 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**39.879**	**2.9794**	**.00971**	**.67561**	**.11034**
Stddev	.231	.0133	.00042	.00238	.00024
%RSD	.57977	.44569	4.3650	.35216	.21484
#1	40.043	2.9888	.01001	.67393	.11050
#2	39.716	2.9700	.00941	.67729	.11017
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.15976**	**4.3733**	**.00393**	**.00171**	**13.253**
Stddev	.00051	.0080	.00050	.00320	.038
%RSD	.31692	.18396	12.675	186.82	.28840
#1	.16012	4.3676	.00358	.00397	13.281
#2	.15940	4.3789	.00428	-.00055	13.226
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.06055**	**.20223**	**.93333**	**-.00137**	**.14751**
Stddev	.00039	.00031	.00045	.00167	.00055
%RSD	.63757	.15439	.04834	121.41	.37487
#1	.06028	.20245	.93301	-.00019	.14712
#2	.06082	.20201	.93365	-.00255	.14790
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121419-C-2-B Acquired: 7/25/2017 15:57:03 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.39167
Stddev	.00038
%RSD	.09733
#1	.39194
#2	.39140
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3256.2	2564.7	17940.	3648.5
Stddev	8.0	6.4	65.	33.1
%RSD	.24573	.24891	.36155	.90772
#1	3250.6	2560.2	17894.	3672.0
#2	3261.9	2569.2	17986.	3625.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	86.836%	106.75%	103.65%	112.74%
Range				

Sample Name: 480-121419-C-3-B Acquired: 7/25/2017 16:00:28 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00121**	**93.190**	**.03507**	**.11839**	**.58846**
Stddev	.00069	.434	.00060	.00066	.00060
%RSD	57.158	.46587	1.7177	.55986	.10270
#1	-.00169	92.883	.03465	.11792	.58888
#2	-.00072	93.497	.03550	.11886	.58803
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00366**	**113.77**	**.00162**	**.2690**	**.05114**
Stddev	.00000	.17	.00009	.0126	.00042
%RSD	.11208	.15358	5.4133	4.674	.81513
#1	.00366	113.64	.00168	.2779	.05143
#2	.00366	113.89	.00155	.2601	.05084
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.13790**	**.15946**	**101.60**	**26.052**	**.15554**
Stddev	.00046	.00019	.11	.125	.00121
%RSD	.33182	.12007	.10502	.48089	.78001
#1	.13757	.15933	101.67	25.963	.15640
#2	.13822	.15960	101.52	26.140	.15469
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121419-C-3-B Acquired: 7/25/2017 16:00:28 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**48.021**	**2.9571**	**.00709**	**.87472**	**.11636**
Stddev	.055	.0002	.00006	.00651	.00022
%RSD	.11545	.00740	.80598	.74413	.18519
#1	47.982	2.9569	.00705	.87932	.11651
#2	48.060	2.9572	.00713	.87011	.11621
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.16644**	**3.1569**	**.00265**	**.00122**	**11.083**
Stddev	.00026	.0040	.00142	.00055	.193
%RSD	.15664	.12615	53.709	44.864	1.7378
#1	.16625	3.1541	.00164	.00160	11.219
#2	.16662	3.1597	.00365	.00083	10.946
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.06910**	**.20261**	**1.2258**	**-.00162**	**.17798**
Stddev	.00153	.00043	.0087	.00039	.00007
%RSD	2.2205	.21374	.71238	23.893	.03722
#1	.07019	.20231	1.2320	-.00190	.17794
#2	.06802	.20292	1.2196	-.00135	.17803
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121419-C-3-B Acquired: 7/25/2017 16:00:28 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.38245
Stddev	.00032
%RSD	.08359
#1	.38268
#2	.38222
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3254.8	2589.6	18062.	3635.5
Stddev	7.2	3.0	12.	7.9
%RSD	.22099	.11778	.06454	.21705
#1	3249.7	2587.5	18054.	3641.1
#2	3259.9	2591.8	18070.	3629.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	86.797%	107.79%	104.36%	112.33%
Range				

Sample Name: 480-121419-D-4-B Acquired: 7/25/2017 16:03:52 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00110**	**98.705**	**.04300**	**.14178**	**.65466**
Stddev	.00086	.058	.00045	.00070	.00486
%RSD	78.576	.05865	1.0359	.49385	.74178
#1	-.00171	98.746	.04332	.14129	.65809
#2	-.00049	98.664	.04269	.14228	.65122
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00357**	**248.55**	**.00229**	**.3073**	**.05712**
Stddev	.00012	.79	.00011	.0103	.00006
%RSD	3.2723	.31587	4.7291	3.365	.10973
#1	.00365	248.00	.00237	.3000	.05717
#2	.00349	249.11	.00221	.3146	.05708
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.69772**	**.23840**	**129.41**	**25.142**	**.16847**
Stddev	.00125	.00194	.10	.113	.00161
%RSD	.17902	.81218	.07707	.44878	.95747
#1	.69683	.23977	129.34	25.222	.16961
#2	.69860	.23703	129.48	25.062	.16733
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121419-D-4-B Acquired: 7/25/2017 16:03:52 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**98.163**	**6.2139**	**.01276**	**.90095**	**.13723**
Stddev	.425	.0270	.00013	.00073	.00012
%RSD	.43252	.43447	1.0402	.08098	.08492
#1	98.464	6.2329	.01267	.90146	.13715
#2	97.863	6.1948	.01285	.90043	.13731
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19910**	**2.8289**	**.00249**	**.00042**	**10.761**
Stddev	.00118	.0029	.00002	.00151	.022
%RSD	.59253	.10253	.73273	358.68	.20845
#1	.19993	2.8310	.00248	-.00065	10.777
#2	.19827	2.8269	.00250	.00149	10.745
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.06590**	**.33379**	**1.7406**	**-.00225**	**.24665**
Stddev	.00081	.00027	.0065	.00163	.00039
%RSD	1.2341	.08129	.37290	72.527	.15885
#1	.06647	.33360	1.7452	-.00341	.24693
#2	.06532	.33398	1.7360	-.00110	.24637
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121419-D-4-B Acquired: 7/25/2017 16:03:52 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.52125
Stddev	.00133
%RSD	.25475
#1	.52219
#2	.52031
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3066.6	2544.2	17974.	3693.1
Stddev	4.6	6.9	68.	4.6
%RSD	.15101	.27025	.37643	.12455
#1	3063.3	2539.3	17926.	3696.4
#2	3069.8	2549.1	18022.	3689.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	81.778%	105.90%	103.84%	114.11%
Range				

Sample Name: ccv-4147885 Acquired: 7/25/2017 16:12:35 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51582**	**24.601**	**.50607**	**.49265**	**.47930**
Stddev	.00306	.017	.00151	.00026	.00066
%RSD	.59301	.06802	.29817	.05222	.13874
#1	.51799	24.589	.50500	.49247	.47883
#2	.51366	24.613	.50714	.49283	.47977
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.48616**	**24.511**	**.49373**	**.0036**	**.48819**
Stddev	.00097	.057	.00127	.0395	.00022
%RSD	.19939	.23210	.25751	1110.	.04438
#1	.48547	24.471	.49283	.0315	.48803
#2	.48684	24.551	.49463	-.0244	.48834
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.53187**	**.47744**	**23.459**	**23.960**	**.49002**
Stddev	.00031	.00198	.060	.050	.00420
%RSD	.05863	.41405	.25684	.21072	.85754
#1	.53209	.47884	23.416	23.924	.48705
#2	.53165	.47604	23.501	23.995	.49299
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: ccv-4147885 Acquired: 7/25/2017 16:12:35 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.929**	**.50555**	**.50501**	**24.384**	**.49312**
Stddev	.052	.00066	.00118	.089	.00154
%RSD	.20938	.13009	.23383	.36372	.31232
#1	24.892	.50509	.50585	24.321	.49203
#2	24.966	.50602	.50418	24.447	.49421
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49781**	**24.406**	**.48707**	**.50286**	**23.873**
Stddev	.00091	.034	.00115	.00183	.063
%RSD	.18180	.14045	.23711	.36480	.26214
#1	.49717	24.382	.48626	.50156	23.829
#2	.49845	24.430	.48789	.50416	23.917
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49998**	**.49195**	**.51241**	**.50579**	**.51825**
Stddev	.00048	.00252	.00013	.00013	.00085
%RSD	.09679	.51194	.02563	.02504	.16421
#1	.49964	.49017	.51250	.50588	.51764
#2	.50032	.49373	.51232	.50570	.51885
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: ccv-4147885 Acquired: 7/25/2017 16:12:35 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	**.52235**
Stddev	.00265
%RSD	.50794
#1	.52047
#2	.52422
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3477.8**	**2420.1**	**16856.**	**3262.7**
Stddev	8.2	6.3	12.	2.3
%RSD	.23523	.26146	.07262	.06963
#1	3483.6	2424.6	16865.	3261.1
#2	3472.1	2415.7	16848.	3264.3

Sample Name: ccb-4130963 Acquired: 7/25/2017 16:15:45 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00036**	**.00799**	**.00008**	**-.00035**	**.00006**
Stddev	.00035	.02216	.00080	.00034	.00003
%RSD	96.008	277.50	1028.8	98.173	40.717
#1	-.00012	-.00768	-.00049	-.00011	.00008
#2	-.00061	.02365	.00065	-.00059	.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00003**	**.00517**	**-.00017**	**.0068**	**.00005**
Stddev	.00001	.00420	.00005	.0164	.00001
%RSD	30.766	81.296	26.537	242.6	25.210
#1	-.00002	.00220	-.00020	-.0048	.00004
#2	-.00003	.00814	-.00014	.0184	.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00039**	**.00043**	**.00357**	**-.01835**	**.00070**
Stddev	.00005	.00021	.00065	.01654	.00047
%RSD	13.309	49.270	18.289	90.133	67.047
#1	.00043	.00058	.00311	-.03004	.00037
#2	.00035	.00028	.00403	-.00665	.00103
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ccb-4130963 Acquired: 7/25/2017 16:15:45 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00756**	**.00020**	**.00008**	**.00442**	**.00042**
Stddev	.00302	.00002	.00005	.00617	.00016
%RSD	39.915	12.262	65.160	139.70	39.493
#1	-.00969	.00022	.00011	.00878	.00030
#2	-.00543	.00018	.00004	.00005	.00053
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00080**	**.00111**	**-.00009**	**-.00314**	**.01628**
Stddev	.00088	.00204	.00059	.00111	.00184
%RSD	110.09	183.91	686.00	35.392	11.315
#1	-.00018	-.00033	.00033	-.00236	.01498
#2	-.00143	.00256	-.00051	-.00393	.01759
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00048**	**.00006**	**.00039**	**.00070**	**-.00008**
Stddev	.00006	.00001	.00038	.00039	.00039
%RSD	11.810	10.953	98.543	55.946	487.95
#1	-.00044	.00007	.00012	.00042	.00019
#2	-.00052	.00006	.00066	.00098	-.00035
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ccb-4130963 Acquired: 7/25/2017 16:15:45 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.00121
Stddev	.00021
%RSD	17.231
#1	.00106
#2	.00135
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3794.6	2440.7	17199.	3254.8
Stddev	.3	.4	67.	12.2
%RSD	.00801	.01661	.39095	.37585
#1	3794.8	2440.4	17151.	3246.1
#2	3794.4	2441.0	17246.	3263.4

Sample Name: CCVL-4147888 Acquired: 7/25/2017 16:21:33 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00586**	**.21467**	**.01484**	**.01902**	**.00210**
Stddev	.00017	.00491	.00214	.00014	.00001
%RSD	2.8186	2.2877	14.419	.75922	.67298
#1	.00598	.21119	.01332	.01891	.00209
#2	.00574	.21814	.01635	.01912	.00211
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00210**	**.51367**	**.00193**	**-.0113**	**.00396**
Stddev	.00006	.00496	.00001	.0046	.00009
%RSD	2.6944	.96575	.51465	40.81	2.2457
#1	.00206	.51016	.00192	-.0080	.00390
#2	.00214	.51718	.00194	-.0145	.00403
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00423**	**.00966**	**.05729**	**.49186**	**.02943**
Stddev	.00018	.00089	.00222	.00717	.00107
%RSD	4.2453	9.2505	3.8690	1.4584	3.6484
#1	.00435	.01029	.05572	.49693	.03018
#2	.00410	.00903	.05886	.48678	.02867
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4147888 Acquired: 7/25/2017 16:21:33 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20098**	W **.00440**	**.01025**	**1.0000**	**.00992**
Stddev	.00136	.00000	.00015	.0066	.00011
%RSD	.67678	.07436	1.4864	.66367	1.1413
#1	.20002	.00440	.01036	.99535	.00984
#2	.20194	.00440	.01014	1.0047	.01000
Check ?	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass
Value		.00300			
Range		30.000%			

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00827**	**.19064**	**.01960**	**.02213**	**.49753**
Stddev	.00113	.00095	.00159	.00261	.00435
%RSD	13.704	.49678	8.1290	11.808	.87459
#1	.00747	.19131	.02072	.02029	.50060
#2	.00907	.18997	.01847	.02398	.49445
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00879**	**.00498**	**.00557**	**.02048**	**.00480**
Stddev	.00009	.00002	.00011	.00096	.00008
%RSD	1.0110	.48164	1.9023	4.6913	1.6095
#1	.00885	.00499	.00550	.01980	.00486
#2	.00873	.00496	.00565	.02116	.00475
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4147888 Acquired: 7/25/2017 16:21:33 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.01110
Stddev	.00065
%RSD	5.8733
#1	.01064
#2	.01156
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3812.2	2464.9	17268.	3245.1
Stddev	.2	2.8	70.	5.4
%RSD	.00517	.11452	.40809	.16595
#1	3812.0	2466.9	17318.	3248.9
#2	3812.3	2462.9	17218.	3241.2

Sample Name: mb 480-368532/1-a Acquired: 7/25/2017 16:25:01 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00120**	**.02717**	**.00205**	**.00249**	**.00008**
Stddev	.00036	.00197	.00011	.00004	.00002
%RSD	30.165	7.2328	5.2442	1.7629	21.406
#1	-.00146	.02578	.00197	.00246	.00006
#2	-.00094	.02856	.00212	.00252	.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**.04047**	**.00001**	**-.0248**	**-.00001**
Stddev	.00004	.00124	.00004	.0476	.00014
%RSD	141.12	3.0594	627.90	191.7	2303.3
#1	.00000	.03959	-.00002	.0088	-.00010
#2	.00006	.04134	.00003	-.0584	.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00015**	**-.00061**	**.00921**	**.01943**	**.00099**
Stddev	.00007	.00120	.00100	.00949	.00048
%RSD	48.694	197.73	10.881	48.839	47.945
#1	-.00020	-.00145	.00991	.01272	.00133
#2	-.00010	.00024	.00850	.02614	.00066
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: mb 480-368532/1-a Acquired: 7/25/2017 16:25:01 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00177**	**.00087**	**.00007**	**.00774**	**.00038**
Stddev	.00261	.00002	.00015	.00745	.00025
%RSD	147.32	2.8279	201.13	96.132	66.515
#1	.00007	.00089	-.00003	.01301	.00055
#2	-.00362	.00085	.00018	.00248	.00020
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00122**	**.00020**	**-.00139**	**-.00266**	**.00317**
Stddev	.00100	.00377	.00028	.00076	.00316
%RSD	81.641	1876.1	19.865	28.419	99.932
#1	-.00052	-.00247	-.00120	-.00213	.00093
#2	-.00193	.00287	-.00159	-.00319	.00540
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00075**	**.00026**	**.00001**	**.00102**	**.00048**
Stddev	.00025	.00002	.00010	.00012	.00032
%RSD	32.664	9.4106	901.67	11.950	66.255
#1	-.00093	.00024	.00008	.00111	.00025
#2	-.00058	.00027	-.00006	.00093	.00070
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: mb 480-368532/1-a Acquired: 7/25/2017 16:25:01 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00085
Stddev	.00046
%RSD	53.914
#1	.00117
#2	.00053
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3884.0	2493.7	17601.	3320.5
Stddev	.6	.2	22.	19.9
%RSD	.01632	.00900	.12544	.59995
#1	3883.5	2493.5	17585.	3334.6
#2	3884.4	2493.8	17616.	3306.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	103.58%	103.79%	101.69%	102.60%
Range				

Sample Name: lcs 480-368532/2-a Acquired: 7/25/2017 16:28:28 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05011**	**9.9135**	**.20519**	**.20678**	**.19972**
Stddev	.00119	.0288	.00226	.00027	.00009
%RSD	2.3658	.29007	1.0999	.12950	.04352
#1	.04927	9.8932	.20359	.20697	.19978
#2	.05095	9.9339	.20678	.20659	.19966
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19841**	**9.9665**	**.20502**	**-.0191**	**.19224**
Stddev	.00038	.0088	.00019	.0001	.00041
%RSD	.19317	.08870	.09426	.6253	.21418
#1	.19868	9.9603	.20488	-.0190	.19253
#2	.19814	9.9728	.20516	-.0191	.19195
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21752**	**.19810**	**9.9784**	**9.5773**	**.20100**
Stddev	.00072	.00043	.0087	.0083	.00257
%RSD	.32915	.21562	.08711	.08631	1.2772
#1	.21702	.19779	9.9846	9.5715	.19919
#2	.21803	.19840	9.9723	9.5832	.20282
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: lcs 480-368532/2-a Acquired: 7/25/2017 16:28:28 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.436**	**.20842**	**.20300**	**9.7500**	**.19388**
Stddev	.011	.00004	.00060	.0341	.00030
%RSD	.10659	.02130	.29789	.34963	.15502
#1	10.428	.20845	.20257	9.7259	.19409
#2	10.444	.20839	.20343	9.7741	.19367
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20610**	**9.8594**	**.20667**	**.20513**	**10.019**
Stddev	.00129	.0099	.00150	.00358	.044
%RSD	.62548	.10040	.72607	1.7458	.43632
#1	.20701	9.8524	.20773	.20766	10.050
#2	.20518	9.8664	.20561	.20259	9.9880
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19751**	**.20203**	**.20677**	**.20937**	**.21412**
Stddev	.00061	.00008	.00096	.00060	.00084
%RSD	.30997	.03719	.46606	.28822	.39228
#1	.19794	.20198	.20745	.20894	.21353
#2	.19708	.20208	.20608	.20979	.21471
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: lcs 480-368532/2-a Acquired: 7/25/2017 16:28:28 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.21868
Stddev	.00043
%RSD	.19578
#1	.21838
#2	.21898
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3667.4	2465.6	17269.	3349.3
Stddev	6.8	.9	5.	2.6
%RSD	.18512	.03478	.02881	.07882
#1	3662.6	2466.2	17272.	3347.5
#2	3672.2	2465.0	17265.	3351.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	97.801%	102.62%	99.769%	103.49%
Range				

Sample Name: 480-121296-d-1-a Acquired: 7/25/2017 16:31:44 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00045**	**.02452**	**.00373**	**.25534**	**.04623**
Stddev	.00029	.00081	.00059	.00005	.00027
%RSD	66.015	3.2864	15.856	.01865	.58950
#1	-.00024	.02395	.00331	.25530	.04604
#2	-.00065	.02509	.00415	.25537	.04642
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00005**	**70.787**	**.00003**	**-.0193**	**.00013**
Stddev	.00001	.217	.00007	.0107	.00004
%RSD	12.110	.30709	237.25	55.75	26.806
#1	-.00005	70.941	.00008	-.0269	.00011
#2	-.00006	70.633	-.00002	-.0117	.00016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00016**	**.00154**	**.02582**	**8.0345**	**.00686**
Stddev	.00008	.00036	.00311	.0064	.00116
%RSD	47.466	23.055	12.047	.07952	16.930
#1	.00021	.00129	.02362	8.0390	.00768
#2	.00011	.00180	.02802	8.0299	.00604
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121296-d-1-a Acquired: 7/25/2017 16:31:44 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**21.985**	**.02007**	**.00675**	**21.652**	**.00543**
Stddev	.128	.00012	.00024	.008	.00009
%RSD	.58395	.59723	3.4858	.03670	1.5953
#1	21.894	.01998	.00692	21.657	.00537
#2	22.076	.02015	.00659	21.646	.00549
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00177**	**52.368**	**.00083**	**.00083**	**.25980**
Stddev	.00018	.020	.00090	.00020	.01269
%RSD	10.146	.03764	107.88	24.197	4.8853
#1	-.00165	52.354	.00020	.00069	.25083
#2	-.00190	52.382	.00146	.00097	.26878
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00065**	**.46239**	**.00047**	**.00142**	**-.00010**
Stddev	.00046	.00026	.00008	.00223	.00076
%RSD	71.579	.05678	17.009	157.59	752.88
#1	-.00032	.46220	.00041	-.00016	-.00064
#2	-.00098	.46257	.00052	.00299	.00044
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121296-d-1-a Acquired: 7/25/2017 16:31:44 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.00477**
Stddev	.00074
%RSD	15.548
#1	.00424
#2	.00529
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3519.8**	**2393.0**	**16906.**	**3315.5**
Stddev	2.5	2.5	101.	1.0
%RSD	.07194	.10524	.59533	.02997
#1	3521.6	2394.8	16977.	3316.2
#2	3518.0	2391.3	16835.	3314.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	93.866%	99.604%	97.674%	102.44%
Range				

Sample Name: 480-121296-d-1-aSD@5 Acquired: 7/25/2017 16:35:08 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00028**	**.05887**	**.00159**	**.05134**	**.00947**
Stddev	.00004	.00076	.00267	.00015	.00007
%RSD	13.244	1.2911	168.26	.29750	.78659
#1	-.00025	.05833	.00347	.05123	.00941
#2	-.00031	.05941	-.00030	.05145	.00952
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**14.143**	**-.00026**	**.0049**	**.00007**
Stddev	.00001	.077	.00019	.0052	.00002
%RSD	153.01	.54179	73.420	107.5	35.545
#1	.00002	14.089	-.00039	.0012	.00008
#2	-.00000	14.197	-.00012	.0086	.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00007**	**.00126**	**.00667**	**1.6173**	**.00366**
Stddev	.00008	.00107	.00175	.0406	.00065
%RSD	105.07	84.480	26.213	2.5075	17.664
#1	-.00002	.00202	.00790	1.5886	.00320
#2	-.00013	.00051	.00543	1.6459	.00411
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121296-d-1-aSD@5 Acquired: 7/25/2017 16:35:08 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.3596**	**.00425**	**.00133**	**4.2671**	**.00123**
Stddev	.0072	.00004	.00030	.0060	.00016
%RSD	.16500	.85422	22.718	.14092	13.120
#1	4.3646	.00428	.00111	4.2628	.00134
#2	4.3545	.00423	.00154	4.2713	.00111
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00005**	**10.061**	**.00005**	**-.00288**	**.06389**
Stddev	.00040	.010	.00052	.00089	.00052
%RSD	890.36	.10404	1148.6	30.758	.81853
#1	-.00024	10.069	.00041	-.00226	.06352
#2	.00033	10.054	-.00032	-.00351	.06426
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00076**	**.09233**	**.00001**	**.00075**	**.00011**
Stddev	.00051	.00018	.00039	.00103	.00058
%RSD	66.401	.19297	2688.7	137.74	554.84
#1	-.00112	.09220	-.00026	.00002	.00052
#2	-.00040	.09245	.00029	.00147	-.00031
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121296-d-1-aSD@5 Acquired: 7/25/2017 16:35:08 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00859
Stddev	.00029
%RSD	3.3791
#1	.00880
#2	.00839
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3706.3	2433.1	17070.	3294.2
Stddev	4.8	4.0	36.	.5
%RSD	.13025	.16591	.20973	.01632
#1	3709.7	2436.0	17045.	3293.8
#2	3702.9	2430.3	17096.	3294.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	98.839%	101.27%	98.625%	101.79%
Range				

Sample Name: 480-121296-d-1-a PDS Acquired: 7/25/2017 16:38:34 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05361**	**10.333**	**.22258**	**.46008**	**.24808**
Stddev	.00021	.068	.00191	.00067	.00064
%RSD	.40066	.65361	.85663	.14517	.25597
#1	.05346	10.286	.22392	.45961	.24853
#2	.05376	10.381	.22123	.46055	.24763
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20355**	**78.502**	**.21382**	**-.0200**	**.20083**
Stddev	.00011	.016	.00019	.0166	.00033
%RSD	.05169	.02093	.08762	82.87	.16626
#1	.20348	78.513	.21395	-.0317	.20106
#2	.20362	78.490	.21369	-.0083	.20059
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.22406**	**.20192**	**10.169**	**17.635**	**.21441**
Stddev	.00113	.00031	.007	.116	.00114
%RSD	.50608	.15511	.06428	.65907	.53357
#1	.22326	.20214	10.173	17.718	.21522
#2	.22486	.20170	10.164	17.553	.21360
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121296-d-1-a PDS Acquired: 7/25/2017 16:38:34 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**31.854**	**.22930**	**.21711**	**30.931**	**.20730**
Stddev	.111	.00006	.00046	.028	.00041
%RSD	.34701	.02581	.21230	.09051	.19651
#1	31.933	.22935	.21678	30.951	.20759
#2	31.776	.22926	.21744	30.911	.20701
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21559**	**61.260**	**.21492**	**.21653**	**10.972**
Stddev	.00109	.025	.00071	.00205	.010
%RSD	.50684	.04081	.33224	.94839	.08742
#1	.21636	61.278	.21441	.21798	10.965
#2	.21482	61.243	.21542	.21507	10.979
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21189**	**.65751**	**.21380**	**.21553**	**.22243**
Stddev	.00066	.00147	.00078	.00012	.00053
%RSD	.31331	.22375	.36449	.05788	.23783
#1	.21142	.65647	.21325	.21544	.22280
#2	.21236	.65855	.21435	.21562	.22205
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121296-d-1-a PDS Acquired: 7/25/2017 16:38:34 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.22654
Stddev	.00119
%RSD	.52738
#1	.22738
#2	.22569
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3420.0	2379.9	16732.	3337.5
Stddev	4.0	.2	92.	8.2
%RSD	.11621	.00752	.54833	.24626
#1	3417.2	2380.0	16667.	3343.4
#2	3422.8	2379.8	16796.	3331.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	91.204%	99.058%	96.667%	103.13%
Range				

Sample Name: 480-121296-d-1-b ms Acquired: 7/25/2017 16:41:50 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05159**	**10.048**	**.21543**	**.44977**	**.24330**
Stddev	.00069	.008	.00059	.00061	.00071
%RSD	1.3334	.08398	.27478	.13456	.29359
#1	.05207	10.054	.21501	.44935	.24381
#2	.05110	10.042	.21585	.45020	.24280
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20025**	**76.859**	**.20955**	**-.0342**	**.19712**
Stddev	.00030	.194	.00055	.0006	.00017
%RSD	.15090	.25246	.26154	1.729	.08803
#1	.20046	76.996	.20916	-.0346	.19700
#2	.20004	76.722	.20993	-.0338	.19724
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21699**	**.19861**	**10.020**	**17.272**	**.21050**
Stddev	.00066	.00043	.017	.041	.00082
%RSD	.30311	.21420	.16572	.23675	.38896
#1	.21746	.19831	10.031	17.301	.21108
#2	.21653	.19891	10.008	17.244	.20992
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121296-d-1-b ms Acquired: 7/25/2017 16:41:50 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**31.164**	**.22441**	**.21240**	**30.293**	**.20295**
Stddev	.051	.00083	.00049	.119	.00075
%RSD	.16222	.36952	.22837	.39365	.36777
#1	31.199	.22500	.21206	30.377	.20242
#2	31.128	.22382	.21275	30.209	.20348
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21154**	**59.968**	**.21018**	**.21746**	**10.378**
Stddev	.00051	.014	.00051	.00309	.035
%RSD	.24142	.02301	.24139	1.4193	.33461
#1	.21190	59.978	.21054	.21964	10.403
#2	.21118	59.958	.20982	.21528	10.354
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20631**	**.64047**	**.20912**	**.21105**	**.21643**
Stddev	.00038	.00327	.00007	.00039	.00214
%RSD	.18289	.51010	.03237	.18701	.98820
#1	.20658	.64278	.20917	.21077	.21795
#2	.20605	.63816	.20907	.21133	.21492
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121296-d-1-b ms Acquired: 7/25/2017 16:41:50 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.22083
Stddev	.00144
%RSD	.65098
#1	.22184
#2	.21981
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3420.7	2379.5	16778.	3312.8
Stddev	2.9	2.6	57.	17.3
%RSD	.08403	.10936	.33916	.52072
#1	3422.7	2381.4	16737.	3300.6
#2	3418.6	2377.7	16818.	3325.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	91.221%	99.042%	96.934%	102.36%
Range				

Sample Name: 480-121296-d-1-c msd Acquired: 7/25/2017 16:45:06 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05134**	**10.137**	**.21879**	**.45547**	**.24546**
Stddev	.00004	.025	.00298	.00038	.00048
%RSD	.08401	.25149	1.3602	.08254	.19516
#1	.05137	10.155	.21668	.45573	.24580
#2	.05131	10.119	.22089	.45520	.24512
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20148**	**78.612**	**.21054**	**-.0072**	**.19841**
Stddev	.00080	.128	.00053	.0061	.00046
%RSD	.39844	.16301	.25103	84.87	.23270
#1	.20205	78.703	.21091	-.0116	.19874
#2	.20091	78.522	.21017	-.0029	.19809
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21855**	**.20321**	**10.092**	**17.557**	**.21132**
Stddev	.00072	.00195	.036	.058	.00126
%RSD	.32849	.96132	.35849	.32843	.59415
#1	.21804	.20459	10.117	17.598	.21221
#2	.21906	.20183	10.066	17.517	.21043
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121296-d-1-c msd Acquired: 7/25/2017 16:45:06 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**31.709**	**.22630**	**.21533**	**30.827**	**.20422**
Stddev	.009	.00064	.00042	.098	.00076
%RSD	.02991	.28369	.19374	.31885	.37260
#1	31.702	.22676	.21563	30.897	.20475
#2	31.715	.22585	.21504	30.758	.20368
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21333**	**61.160**	**.21389**	**.21471**	**10.482**
Stddev	.00006	.020	.00070	.00703	.018
%RSD	.03034	.03229	.32746	3.2747	.17449
#1	.21337	61.174	.21439	.21968	10.495
#2	.21328	61.146	.21340	.20974	10.469
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20754**	**.65248**	**.20919**	**.21444**	**.21752**
Stddev	.00028	.00152	.00057	.00138	.00043
%RSD	.13419	.23341	.27254	.64492	.19896
#1	.20734	.65356	.20960	.21346	.21783
#2	.20774	.65140	.20879	.21541	.21721
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121296-d-1-c msd Acquired: 7/25/2017 16:45:06 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.22338
Stddev	.00006
%RSD	.02583
#1	.22342
#2	.22334
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3414.0	2376.7	16777.	3310.4
Stddev	.3	2.3	61.	17.1
%RSD	.01011	.09761	.36323	.51786
#1	3414.2	2375.1	16734.	3298.3
#2	3413.7	2378.3	16820.	3322.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	91.042%	98.924%	96.930%	102.29%
Range				

Sample Name: BLANK Acquired: 7/25/2017 16:48:22 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00021**	**.00088**	**.00002**	**.00158**	**.00008**
Stddev	.00022	.01612	.00103	.00001	.00003
%RSD	104.90	1836.1	6581.1	.46034	34.833
#1	.00005	-.01052	.00074	.00158	.00010
#2	.00036	.01227	-.00071	.00159	.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00007**	**.01046**	**.00020**	**.0268**	**-.00020**
Stddev	.00006	.00240	.00014	.0510	.00001
%RSD	90.749	22.965	70.964	189.9	4.4667
#1	.00002	.01216	.00010	-.0092	-.00019
#2	.00011	.00876	.00031	.0629	-.00021
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00167**	**-.00065**	**.00695**	**.00863**	**.00042**
Stddev	.00015	.00044	.00125	.00106	.00140
%RSD	9.2123	67.352	17.932	12.237	337.68
#1	.00157	-.00096	.00606	.00937	.00141
#2	.00178	-.00034	.00783	.00788	-.00058
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: BLANK Acquired: 7/25/2017 16:48:22 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00384**	**.00021**	**.00037**	**.02962**	**-.00011**
Stddev	.00474	.00000	.00016	.00259	.00000
%RSD	123.46	2.2612	42.553	8.7414	.24473
#1	-.00049	.00021	.00048	.03145	-.00011
#2	-.00719	.00022	.00026	.02779	-.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00081**	**.00821**	**.00195**	**-.00274**	**.02704**
Stddev	.00000	.00085	.00028	.00122	.00201
%RSD	.25199	10.301	14.492	44.469	7.4402
#1	-.00081	.00881	.00175	-.00360	.02846
#2	-.00081	.00761	.00215	-.00188	.02562
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00503**	**.00010**	**-.00024**	**-.00202**	**.00018**
Stddev	.00018	.00006	.00017	.00024	.00054
%RSD	3.5437	63.288	69.039	11.736	299.27
#1	.00490	.00006	-.00012	-.00185	.00056
#2	.00515	.00014	-.00036	-.00219	-.00020
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: BLANK Acquired: 7/25/2017 16:48:22 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00039
Stddev	.00027
%RSD	69.059
#1	.00058
#2	.00020
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3632.8	2280.4	16581.	3205.8
Stddev	8.3	3.8	28.	3.6
%RSD	.22880	.16460	.16682	.11299
#1	3626.9	2277.8	16601.	3203.2
#2	3638.7	2283.1	16562.	3208.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	96.877%	94.916%	95.799%	99.055%
Range				

Sample Name: mb 480-368485/1-a Acquired: 7/25/2017 16:51:51 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00021**	**.02257**	**.00085**	**.00301**	**.00008**
Stddev	.00055	.00950	.00258	.00002	.00001
%RSD	261.53	42.077	304.07	.81106	6.5870
#1	-.00060	.01585	-.00097	.00303	.00007
#2	.00018	.02928	.00267	.00299	.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00005**	**.03646**	**-.00011**	**-.0065**	**.00003**
Stddev	.00006	.00034	.00014	.0055	.00000
%RSD	112.14	.93857	125.85	84.56	11.197
#1	.00001	.03671	-.00021	-.0026	.00003
#2	.00009	.03622	-.00001	-.0103	.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00043**	**.00121**	**.00350**	**.01556**	**-.00025**
Stddev	.00025	.00018	.00076	.00774	.00209
%RSD	58.592	14.980	21.644	49.737	850.27
#1	-.00025	.00109	.00403	.01009	-.00172
#2	-.00061	.00134	.00296	.02103	.00123
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: mb 480-368485/1-a Acquired: 7/25/2017 16:51:51 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00378**	**.00010**	**.00011**	**.01020**	**.00029**
Stddev	.00300	.00011	.00004	.00876	.00061
%RSD	79.349	115.18	35.515	85.878	211.06
#1	-.00166	.00018	.00013	.00400	.00072
#2	-.00589	.00002	.00008	.01639	-.00014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00132**	**.00265**	**.00040**	**.00069**	**.00258**
Stddev	.00019	.00012	.00037	.00105	.00997
%RSD	14.621	4.6896	94.181	151.23	385.92
#1	-.00118	.00274	.00066	.00143	.00963
#2	-.00146	.00257	.00013	-.00005	-.00447
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00064**	**.00021**	**-.00017**	**.00063**	**.00017**
Stddev	.00007	.00006	.00000	.00056	.00074
%RSD	11.217	29.375	.64068	89.356	439.11
#1	-.00059	.00017	-.00017	.00103	.00069
#2	-.00069	.00026	-.00017	.00023	-.00035
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: mb 480-368485/1-a Acquired: 7/25/2017 16:51:51 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00089
Stddev	.00053
%RSD	59.942
#1	.00127
#2	.00051
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3900.0	2507.9	17641.	3328.2
Stddev	13.1	11.7	75.	9.3
%RSD	.33672	.46585	.42670	.27885
#1	3909.2	2516.2	17695.	3334.8
#2	3890.7	2499.7	17588.	3321.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	104.00%	104.39%	101.92%	102.84%
Range				

Sample Name: CCV-4147885 Acquired: 7/25/2017 16:55:21 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.52073**	**24.796**	**.51139**	**.49572**	**.47815**
Stddev	.00126	.127	.00346	.00072	.00087
%RSD	.24241	.51321	.67634	.14528	.18149
#1	.51984	24.706	.50894	.49522	.47753
#2	.52163	24.886	.51383	.49623	.47876
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.48614**	**24.540**	**.49664**	**.0085**	**.49189**
Stddev	.00403	.268	.00013	.0188	.00072
%RSD	.82888	1.0932	.02649	220.8	.14676
#1	.48329	24.351	.49654	-.0048	.49240
#2	.48899	24.730	.49673	.0218	.49138
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.53951**	**.47697**	**23.407**	**23.923**	**.49433**
Stddev	.00235	.00208	.294	.258	.00380
%RSD	.43570	.43633	1.2561	1.0803	.76945
#1	.53784	.47550	23.199	23.740	.49164
#2	.54117	.47844	23.615	24.105	.49702
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4147885 Acquired: 7/25/2017 16:55:21 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.002**	**.50710**	**.50971**	**24.434**	**.49625**
Stddev	.041	.00027	.00059	.186	.00014
%RSD	.16421	.05319	.11533	.76182	.02758
#1	24.973	.50691	.51013	24.302	.49616
#2	25.031	.50729	.50929	24.566	.49635
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50095**	**24.615**	**.49042**	**.50178**	**23.954**
Stddev	.00068	.011	.00359	.00066	.209
%RSD	.13650	.04532	.73278	.13191	.87213
#1	.50144	24.623	.48788	.50131	23.806
#2	.50047	24.607	.49296	.50225	24.101
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50550**	**.49535**	**.51752**	**.51226**	**.52350**
Stddev	.00085	.00363	.00176	.00331	.00224
%RSD	.16828	.73216	.33952	.64600	.42727
#1	.50611	.49279	.51628	.50992	.52191
#2	.50490	.49791	.51876	.51460	.52508
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4147885 Acquired: 7/25/2017 16:55:21 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	**.52866**
Stddev	.00100
%RSD	.18966
#1	.52795
#2	.52936
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3457.0**	**2406.4**	**16709.**	**3246.4**
Stddev	2.7	3.8	75.	25.6
%RSD	.07811	.15891	.44897	.78787
#1	3459.0	2409.1	16762.	3264.4
#2	3455.1	2403.7	16656.	3228.3

Sample Name: CCB-4130963 Acquired: 7/25/2017 16:58:32 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00019**	**.01141**	**.00007**	**.00002**	**.00001**
Stddev	.00074	.01944	.00021	.00021	.00001
%RSD	388.99	170.29	292.44	1237.3	90.555
#1	.00033	-.00233	.00022	.00017	.00000
#2	-.00071	.02516	-.00008	-.00013	.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00000**	**.00244**	**-.00016**	**.0009**	**.00002**
Stddev	.00004	.00202	.00015	.0100	.00023
%RSD	2355.0	83.010	89.253	1174.	1076.5
#1	-.00003	.00101	-.00027	-.0062	.00018
#2	.00003	.00387	-.00006	.0080	-.00014
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00006**	**-.00074**	**.00156**	**.03714**	**.00060**
Stddev	.00048	.00011	.00144	.08844	.00088
%RSD	835.89	15.198	92.135	238.13	146.03
#1	.00028	-.00082	.00054	-.02540	-.00002
#2	-.00039	-.00066	.00258	.09968	.00123
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4130963 Acquired: 7/25/2017 16:58:32 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00382**	**.00005**	**.00028**	**.00268**	**.00051**
Stddev	.00618	.00005	.00021	.00627	.00003
%RSD	161.84	92.461	74.147	233.74	5.6300
#1	-.00819	.00002	.00013	.00712	.00053
#2	.00055	.00009	.00043	-.00175	.00049
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00040**	**.00174**	**-.00022**	**-.00105**	**.01400**
Stddev	.00037	.00218	.00000	.00014	.00906
%RSD	92.704	125.27	1.8230	13.316	64.674
#1	-.00014	.00020	-.00022	-.00095	.00760
#2	-.00067	.00328	-.00022	-.00115	.02041
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00038**	**.00002**	**-.00008**	**.00092**	**-.00044**
Stddev	.00059	.00002	.00004	.00007	.00028
%RSD	155.61	131.42	48.880	7.5592	63.656
#1	-.00080	.00003	-.00005	.00087	-.00064
#2	.00004	.00000	-.00010	.00097	-.00024
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4130963 Acquired: 7/25/2017 16:58:32 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.00049
Stddev	.00014
%RSD	27.893
#1	.00058
#2	.00039
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3774.1	2437.6	17133.	3233.2
Stddev	1.6	4.6	33.	21.1
%RSD	.04126	.18760	.19027	.65303
#1	3775.2	2440.9	17109.	3248.1
#2	3773.0	2434.4	17156.	3218.2

Sample Name: CCVL-4147888 Acquired: 7/25/2017 17:02:02 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00664**	**.19836**	**.01520**	**.01974**	**.00202**
Stddev	.00029	.03152	.00145	.00059	.00000
%RSD	4.2967	15.889	9.5139	3.0018	.07321
#1	.00684	.17607	.01622	.01932	.00202
#2	.00644	.22065	.01418	.02016	.00202
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00202**	**.49580**	**.00206**	**-.0101**	**.00404**
Stddev	.00004	.00656	.00021	.0067	.00001
%RSD	1.9550	1.3233	10.396	66.58	.21042
#1	.00205	.49116	.00221	-.0148	.00403
#2	.00199	.50044	.00191	-.0053	.00404
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00434**	**.01033**	**.04774**	**.44501**	**.02926**
Stddev	.00026	.00035	.00179	.01182	.00128
%RSD	6.0360	3.3669	3.7590	2.6567	4.3683
#1	.00415	.01058	.04901	.45337	.02836
#2	.00452	.01009	.04647	.43665	.03017
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4147888 Acquired: 7/25/2017 17:02:02 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20186**	**.00312**	**.01028**	**.97896**	**.00993**
Stddev	.00215	.00013	.00011	.01524	.00012
%RSD	1.0637	4.1896	1.0952	1.5569	1.2041
#1	.20338	.00303	.01021	.96818	.01001
#2	.20034	.00321	.01036	.98974	.00985
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00927**	**.19278**	**.02042**	**.02261**	**.50671**
Stddev	.00002	.00002	.00048	.00082	.00071
%RSD	.19131	.01282	2.3532	3.6436	.14096
#1	.00926	.19280	.02076	.02202	.50721
#2	.00928	.19277	.02008	.02319	.50620
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00896**	**.00493**	**.00518**	**.02092**	**.00512**
Stddev	.00014	.00007	.00038	.00070	.00045
%RSD	1.5098	1.3524	7.4064	3.3462	8.7986
#1	.00905	.00498	.00491	.02141	.00480
#2	.00886	.00488	.00545	.02042	.00544
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4147888 Acquired: 7/25/2017 17:02:02 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.01163
Stddev	.00038
%RSD	3.2901
#1	.01136
#2	.01190
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3811.4	2468.8	17258.	3282.5
Stddev	7.4	.8	113.	19.4
%RSD	.19464	.03108	.65185	.59229
#1	3816.7	2469.4	17338.	3296.3
#2	3806.2	2468.3	17179.	3268.8

Sample Name: lcs 480-368485/2-a Acquired: 7/25/2017 17:05:29 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05107**	**9.9493**	**.20383**	**.20386**	**.19925**
Stddev	.00069	.0198	.00206	.00025	.00039
%RSD	1.3505	.19907	1.0114	.12197	.19683
#1	.05156	9.9353	.20529	.20403	.19898
#2	.05058	9.9633	.20237	.20368	.19953
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19825**	**9.9670**	**.20509**	**.0041**	**.19239**
Stddev	.00043	.0095	.00017	.0005	.00007
%RSD	.21630	.09567	.08233	11.45	.03822
#1	.19795	9.9737	.20521	.0038	.19244
#2	.19856	9.9603	.20497	.0045	.19234
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21741**	**.19464**	**10.058**	**9.6045**	**.20041**
Stddev	.00013	.00054	.031	.0313	.00084
%RSD	.06170	.27990	.31221	.32618	.41748
#1	.21732	.19426	10.080	9.5823	.19982
#2	.21751	.19503	10.036	9.6266	.20100
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: lcs 480-368485/2-a Acquired: 7/25/2017 17:05:29 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.439**	**.20697**	**.20350**	**9.7711**	**.19421**
Stddev	.002	.00002	.00007	.0146	.00000
%RSD	.01996	.01138	.03429	.14929	.00069
#1	10.441	.20696	.20355	9.7814	.19421
#2	10.438	.20699	.20345	9.7608	.19421
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20655**	**9.8023**	**.20612**	**.20652**	**10.087**
Stddev	.00166	.0098	.00000	.00036	.011
%RSD	.80284	.09988	.00070	.17278	.10542
#1	.20772	9.8092	.20612	.20677	10.095
#2	.20537	9.7954	.20611	.20626	10.079
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19961**	**.20177**	**.20620**	**.21105**	**.21499**
Stddev	.00024	.00069	.00107	.00146	.00023
%RSD	.12007	.34388	.52022	.69016	.10727
#1	.19978	.20128	.20696	.21208	.21516
#2	.19944	.20226	.20544	.21002	.21483
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: lcs 480-368485/2-a Acquired: 7/25/2017 17:05:29 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.21826
Stddev	.00072
%RSD	.32852
#1	.21775
#2	.21877
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3658.1	2460.4	17252.	3322.2
Stddev	2.4	.2	4.	10.9
%RSD	.06535	.00716	.02506	.32767
#1	3659.8	2460.5	17255.	3314.5
#2	3656.4	2460.2	17249.	3329.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	97.554%	102.41%	99.674%	102.65%
Range				

Sample Name: 480-121468-b-1-a Acquired: 7/25/2017 17:08:46 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00027**	**.00968**	**-.00006**	**.02178**	**.03465**
Stddev	.00051	.01467	.00062	.00011	.00021
%RSD	185.28	151.56	1106.9	.50968	.59728
#1	.00009	-.00069	.00038	.02186	.03480
#2	-.00063	.02005	-.00049	.02170	.03450
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00003**	**127.99**	**.00001**	**.0176**	**-.00009**
Stddev	.00002	.29	.00002	.0156	.00002
%RSD	82.870	.22277	110.36	88.74	21.934
#1	-.00001	128.19	.00000	.0286	-.00007
#2	-.00004	127.79	.00002	.0065	-.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00044**	**-.00072**	**.00438**	**1.4177**	**-.00348**
Stddev	.00115	.00005	.00220	.0271	.00029
%RSD	259.43	6.5084	50.209	1.9111	8.3108
#1	.00037	-.00069	.00283	1.3985	-.00368
#2	-.00125	-.00076	.00594	1.4369	-.00327
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121468-b-1-a Acquired: 7/25/2017 17:08:46 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.993**	**.00011**	**.00021**	**9.5330**	**.00020**
Stddev	.083	.00010	.00023	.0095	.00019
%RSD	.33265	93.879	113.41	.09993	95.468
#1	25.052	.00018	.00004	9.5263	.00007
#2	24.934	.00004	.00037	9.5398	.00034
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**2.5444**	**.00003**	**-.00091**	**5.6994**
Stddev	.00022	.0142	.00103	.00052	.0143
%RSD	566.30	.55705	3593.7	57.075	.25069
#1	.00012	2.5344	-.00070	-.00128	5.7095
#2	-.00019	2.5544	.00076	-.00054	5.6893
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00085**	**.22640**	**-.00004**	**.00196**	**-.00014**
Stddev	.00066	.00036	.00020	.00011	.00002
%RSD	76.833	.15880	461.01	5.8422	10.707
#1	-.00039	.22666	-.00019	.00204	-.00015
#2	-.00132	.22615	.00010	.00188	-.00013
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121468-b-1-a Acquired: 7/25/2017 17:08:46 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00267
Stddev	.00062
%RSD	23.102
#1	.00310
#2	.00223
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3445.3	2367.9	16722.	3281.8
Stddev	.7	2.6	85.	27.4
%RSD	.02131	.10967	.50620	.83554
#1	3445.9	2369.7	16662.	3262.4
#2	3444.8	2366.1	16782.	3301.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	91.879%	98.558%	96.614%	101.40%
Range				

Sample Name: 480-121468-b-1-aSD@5 Acquired: 7/25/2017 17:12:11 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00081**	**.03387**	**-.00062**	**.00419**	**.00674**
Stddev	.00014	.00959	.00022	.00000	.00004
%RSD	16.881	28.306	35.288	.00501	.59916
#1	-.00090	.04065	-.00077	.00419	.00677
#2	-.00071	.02709	-.00046	.00419	.00671
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**24.560**	**-.00010**	**.0126**	**.00001**
Stddev	.00005	.089	.00013	.0366	.00002
%RSD	707.65	.36147	132.11	291.9	189.76
#1	-.00004	24.622	-.00001	.0385	-.00000
#2	.00003	24.497	-.00019	-.0134	.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00038**	**.00096**	**.00238**	**.23969**	**-.00088**
Stddev	.00027	.00052	.00018	.04941	.00056
%RSD	72.174	54.242	7.6685	20.615	63.505
#1	-.00019	.00059	.00251	.27464	-.00048
#2	-.00057	.00133	.00225	.20475	-.00127
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121468-b-1-aSD@5 Acquired: 7/25/2017 17:12:11 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.7553**	**.00009**	**.00004**	**1.8354**	**.00044**
Stddev	.0122	.00008	.00005	.0141	.00003
%RSD	.25684	85.073	132.88	.76595	7.0470
#1	4.7639	.00015	.00000	1.8454	.00042
#2	4.7466	.00004	.00008	1.8255	.00046
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00090**	**.46609**	**.00048**	**-.00403**	**1.0869**
Stddev	.00099	.00131	.00024	.00111	.0097
%RSD	110.24	.28111	49.325	27.586	.89230
#1	-.00020	.46517	.00031	-.00482	1.0937
#2	-.00159	.46702	.00064	-.00325	1.0800
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00059**	**.04410**	**-.00016**	**.00033**	**-.00013**
Stddev	.00007	.00013	.00000	.00127	.00017
%RSD	12.535	.29507	2.0520	387.83	125.41
#1	-.00053	.04419	-.00015	-.00057	-.00002
#2	-.00064	.04401	-.00016	.00123	-.00025
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121468-b-1-aSD@5 Acquired: 7/25/2017 17:12:11 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00089
Stddev	.00002
%RSD	1.7422
#1	.00090
#2	.00088
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3672.1	2421.3	17019.	3257.3
Stddev	.5	2.8	15.	6.1
%RSD	.01438	.11460	.08792	.18860
#1	3671.7	2419.4	17008.	3261.6
#2	3672.5	2423.3	17029.	3252.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	97.926%	100.78%	98.326%	100.65%
Range				

Sample Name: 480-121468-b-1-a PDS Acquired: 7/25/2017 17:15:37 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05224**	**9.9777**	**.20932**	**.22243**	**.22991**
Stddev	.00018	.0269	.00030	.00031	.00076
%RSD	.35412	.26975	.14320	.13946	.32859
#1	.05210	9.9587	.20911	.22265	.22937
#2	.05237	9.9967	.20953	.22221	.23044
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19730**	**134.05**	**.20497**	**-.0128**	**.19379**
Stddev	.00099	.57	.00033	.0348	.00036
%RSD	.50255	.42843	.16107	271.4	.18328
#1	.19659	133.64	.20473	-.0374	.19404
#2	.19800	134.45	.20520	.0118	.19354
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21629**	**.19420**	**9.7639**	**10.919**	**.19636**
Stddev	.00212	.00225	.0611	.055	.00136
%RSD	.98176	1.1590	.62556	.50094	.69109
#1	.21479	.19261	9.7208	10.880	.19540
#2	.21779	.19579	9.8071	10.957	.19732
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121468-b-1-a PDS Acquired: 7/25/2017 17:15:37 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**34.638**	**.20195**	**.20169**	**19.052**	**.19474**
Stddev	.195	.00058	.00001	.099	.00024
%RSD	.56238	.28737	.00441	.51812	.12385
#1	34.500	.20154	.20168	18.982	.19457
#2	34.776	.20236	.20169	19.122	.19491
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21039**	**12.343**	**.20478**	**.20720**	**15.576**
Stddev	.00016	.001	.00182	.00013	.013
%RSD	.07637	.01087	.88770	.06424	.08188
#1	.21028	12.342	.20607	.20710	15.567
#2	.21051	12.344	.20350	.20729	15.585
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20375**	**.42075**	**.20757**	**.20879**	**.21418**
Stddev	.00181	.00196	.00040	.00148	.00001
%RSD	.88976	.46593	.19287	.70992	.00577
#1	.20503	.41937	.20728	.20983	.21417
#2	.20247	.42214	.20785	.20774	.21418
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121468-b-1-a PDS Acquired: 7/25/2017 17:15:37 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.21558**
Stddev	.00083
%RSD	.38612
#1	.21500
#2	.21617
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3362.8**	**2380.0**	**16603.**	**3300.4**
Stddev	1.8	.6	147.	6.2
%RSD	.05238	.02628	.88301	.18807
#1	3361.5	2380.4	16707.	3304.8
#2	3364.0	2379.6	16499.	3296.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.677%	99.062%	95.924%	101.98%
Range				

Sample Name: 480-121468-b-1-b ms Acquired: 7/25/2017 17:18:53 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05125**	**9.8819**	**.20880**	**.22240**	**.23002**
Stddev	.00031	.0454	.00197	.00052	.00133
%RSD	.60106	.45958	.94490	.23371	.57956
#1	.05103	9.9140	.21019	.22276	.23096
#2	.05147	9.8498	.20740	.22203	.22907
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19821**	**139.08**	**.20365**	**-.0091**	**.19218**
Stddev	.00104	.77	.00008	.0365	.00016
%RSD	.52560	.55531	.03692	399.6	.08272
#1	.19894	139.63	.20360	-.0349	.19207
#2	.19747	138.53	.20371	.0167	.19230
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21135**	**.19289**	**9.8287**	**11.027**	**.19572**
Stddev	.00053	.00155	.0500	.089	.00028
%RSD	.25216	.80269	.50869	.80823	.14539
#1	.21097	.19398	9.8641	11.090	.19552
#2	.21173	.19179	9.7934	10.964	.19592
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121468-b-1-b ms Acquired: 7/25/2017 17:18:53 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**35.275**	**.20106**	**.20052**	**19.489**	**.19319**
Stddev	.187	.00093	.00021	.117	.00041
%RSD	.52879	.46075	.10249	.60184	.21328
#1	35.407	.20172	.20066	19.572	.19348
#2	35.143	.20040	.20037	19.406	.19290
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20827**	**12.561**	**.20365**	**.20712**	**15.750**
Stddev	.00091	.014	.00107	.00424	.052
%RSD	.43764	.10986	.52636	2.0461	.33041
#1	.20892	12.571	.20441	.20413	15.787
#2	.20763	12.551	.20289	.21012	15.714
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20306**	**.42700**	**.20501**	**.20734**	**.21155**
Stddev	.00098	.00120	.00043	.00253	.00017
%RSD	.48281	.28219	.20999	1.2179	.08267
#1	.20237	.42785	.20531	.20913	.21143
#2	.20375	.42615	.20470	.20556	.21168
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121468-b-1-b ms Acquired: 7/25/2017 17:18:53 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.21058**
Stddev	.00105
%RSD	.50040
#1	.21132
#2	.20983
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3359.8**	**2379.5**	**16655.**	**3281.4**
Stddev	.1	1.7	69.	20.9
%RSD	.00257	.07285	.41386	.63733
#1	3359.7	2378.3	16606.	3266.6
#2	3359.8	2380.7	16704.	3296.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.597%	99.041%	96.225%	101.39%
Range				

Sample Name: 480-121468-b-1-c msd Acquired: 7/25/2017 17:22:10 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05090**	**9.7767**	**.20628**	**.22042**	**.22589**
Stddev	.00140	.0278	.00362	.00052	.00018
%RSD	2.7567	.28461	1.7551	.23764	.07900
#1	.04991	9.7964	.20372	.22005	.22577
#2	.05190	9.7571	.20884	.22079	.22602
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19391**	**133.50**	**.20216**	**.0071**	**.19076**
Stddev	.00065	.20	.00019	.0081	.00019
%RSD	.33656	.15092	.09313	114.4	.10149
#1	.19345	133.36	.20230	.0128	.19062
#2	.19437	133.64	.20203	.0013	.19089
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21146**	**.19014**	**9.5372**	**10.637**	**.19282**
Stddev	.00128	.00199	.0246	.028	.00025
%RSD	.60495	1.0466	.25768	.26597	.13123
#1	.21055	.18873	9.5198	10.617	.19264
#2	.21236	.19155	9.5546	10.657	.19300
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121468-b-1-c msd Acquired: 7/25/2017 17:22:10 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**34.342**	**.19859**	**.19969**	**18.759**	**.19184**
Stddev	.016	.00001	.00030	.065	.00019
%RSD	.04553	.00273	.14921	.34602	.09811
#1	34.331	.19859	.19990	18.713	.19170
#2	34.353	.19860	.19948	18.805	.19197
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20711**	**12.371**	**.20169**	**.20163**	**15.347**
Stddev	.00075	.013	.00064	.00121	.053
%RSD	.36209	.10788	.31657	.60063	.34466
#1	.20658	12.361	.20215	.20077	15.309
#2	.20764	12.380	.20124	.20249	15.384
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20044**	**.41721**	**.20316**	**.20675**	**.20983**
Stddev	.00004	.00192	.00057	.00075	.00028
%RSD	.01879	.45913	.27883	.36214	.13463
#1	.20047	.41585	.20276	.20622	.21003
#2	.20041	.41856	.20356	.20728	.20963
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121468-b-1-c msd Acquired: 7/25/2017 17:22:10 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.21077**
Stddev	.00000
%RSD	.00008
#1	.21077
#2	.21077
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3367.0**	**2382.9**	**16647.**	**3334.1**
Stddev	3.1	1.9	9.	1.9
%RSD	.09154	.07953	.05644	.05559
#1	3364.8	2381.5	16654.	3335.4
#2	3369.2	2384.2	16641.	3332.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.790%	99.181%	96.181%	103.02%
Range				

Sample Name: 480-121514-d-1-a Acquired: 7/25/2017 17:25:27 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00005**	**.14403**	**.00137**	**.02060**	**.04071**
Stddev	.00062	.00466	.00063	.00024	.00007
%RSD	1254.2	3.2350	46.094	1.1513	.16868
#1	.00049	.14733	.00092	.02044	.04076
#2	-.00039	.14074	.00182	.02077	.04066
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00006**	**7.8084**	**-.00014**	**.0245**	**.00069**
Stddev	.00018	.0091	.00003	.0257	.00010
%RSD	273.03	.11685	17.938	105.0	14.189
#1	-.00006	7.8148	-.00012	.0426	.00062
#2	.00019	7.8019	-.00016	.0063	.00075
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00141**	**.00062**	**2.3544**	**2.2001**	**.00129**
Stddev	.00028	.00018	.0107	.0086	.00211
%RSD	20.142	28.471	.45237	.38886	163.06
#1	.00161	.00075	2.3619	2.1941	.00278
#2	.00121	.00050	2.3468	2.2062	-.00020
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121514-d-1-a Acquired: 7/25/2017 17:25:27 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.7253**	**.07244**	**.00024**	**84.338**	**.00245**
Stddev	.0177	.00003	.00001	.558	.00005
%RSD	1.0265	.04021	4.6394	.66185	2.0227
#1	1.7378	.07242	.00023	84.733	.00242
#2	1.7128	.07246	.00025	83.943	.00249
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00307**	**2.6354**	**-.00060**	**.00318**	**2.0024**
Stddev	.00120	.0026	.00069	.00029	.0299
%RSD	38.967	.10009	114.80	9.1206	1.4936
#1	.00391	2.6373	-.00109	.00338	1.9812
#2	.00222	2.6335	-.00011	.00297	2.0235
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00020**	**.04334**	**.00043**	**-.00027**	**.00366**
Stddev	.00063	.00009	.00039	.00049	.00032
%RSD	317.91	.21246	89.644	183.79	8.7016
#1	.00025	.04341	.00016	.00008	.00389
#2	-.00064	.04328	.00071	-.00061	.00344
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121514-d-1-a Acquired: 7/25/2017 17:25:27 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.02401**
Stddev	.00000
%RSD	.01866
#1	.02401
#2	.02400
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3514.3**	**2418.8**	**16919.**	**3340.2**
Stddev	5.5	2.5	37.	14.8
%RSD	.15711	.10235	.21710	.44309
#1	3510.4	2417.1	16893.	3329.8
#2	3518.2	2420.6	16945.	3350.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	93.718%	100.68%	97.752%	103.21%
Range				

Sample Name: 480-121514-d-4-a Acquired: 7/25/2017 17:28:52 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00044**	**.03051**	**.00351**	**.02928**	**.02017**
Stddev	.00045	.00670	.00213	.00002	.00004
%RSD	101.08	21.950	60.816	.07435	.20299
#1	-.00076	.03525	.00502	.02926	.02014
#2	-.00013	.02578	.00200	.02929	.02020
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00006**	**18.505**	**.00010**	**.0217**	**.00118**
Stddev	.00001	.070	.00013	.0093	.00013
%RSD	12.929	.37638	123.96	42.98	10.625
#1	.00005	18.554	.00019	.0151	.00127
#2	.00007	18.456	.00001	.0283	.00109
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00025**	**.00044**	**4.6609**	**5.9742**	**-.00035**
Stddev	.00003	.00057	.0197	.0070	.00092
%RSD	12.221	129.52	.42205	.11706	261.43
#1	-.00023	.00084	4.6748	5.9692	-.00100
#2	-.00027	.00004	4.6469	5.9791	.00030
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121514-d-4-a Acquired: 7/25/2017 17:28:52 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.8364**	**.08483**	**.00096**	**112.85**	**.00062**
Stddev	.0010	.00003	.00019	.71	.00019
%RSD	.05731	.03009	19.328	.62634	30.149
#1	1.8371	.08481	.00110	113.35	.00075
#2	1.8356	.08484	.00083	112.35	.00049
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00579**	**7.5189**	**-.00067**	**-.00250**	**3.4361**
Stddev	.00177	.0059	.00059	.00256	.0238
%RSD	30.614	.07875	87.296	102.40	.69235
#1	.00454	7.5230	-.00109	-.00430	3.4529
#2	.00704	7.5147	-.00026	-.00069	3.4193
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00057**	**.08716**	**.00003**	**.00158**	**.00135**
Stddev	.00013	.00003	.00008	.00014	.00050
%RSD	23.352	.03861	269.72	8.9411	37.441
#1	-.00066	.08718	-.00003	.00148	.00170
#2	-.00047	.08714	.00009	.00168	.00099
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121514-d-4-a Acquired: 7/25/2017 17:28:52 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00932
Stddev	.00017
%RSD	1.8531
#1	.00920
#2	.00944
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3447.6	2394.6	16768.	3324.5
Stddev	2.3	4.1	15.	12.0
%RSD	.06631	.17253	.08727	.36139
#1	3446.0	2391.7	16779.	3316.0
#2	3449.2	2397.6	16758.	3333.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	91.939%	99.671%	96.880%	102.72%
Range				

Sample Name: 480-121514-d-6-a Acquired: 7/25/2017 17:32:16 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00156**	**.41483**	**.00042**	**.02272**	**.05778**
Stddev	.00020	.01695	.00110	.00036	.00008
%RSD	12.849	4.0859	263.02	1.5922	.14339
#1	-.00170	.42681	-.00036	.02247	.05772
#2	-.00142	.40284	.00120	.02298	.05784
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00034**	**9.0902**	**.00092**	**.1370**	**.00340**
Stddev	.00002	.0325	.00012	.0011	.00005
%RSD	6.0726	.35782	12.705	.8191	1.3997
#1	.00033	9.0672	.00084	.1362	.00336
#2	.00036	9.1132	.00101	.1378	.00343
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00021**	**.00264**	**.03182**	**4.3581**	**-.00009**
Stddev	.00045	.00067	.00090	.0541	.00144
%RSD	214.91	25.157	2.8285	1.2423	1558.3
#1	-.00052	.00217	.03246	4.3198	-.00111
#2	.00011	.00311	.03119	4.3964	.00093
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121514-d-6-a Acquired: 7/25/2017 17:32:16 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.6435**	**.07056**	**.00026**	**128.90**	**.00146**
Stddev	.0139	.00013	.00004	.85	.00016
%RSD	.84318	.17859	15.894	.66060	10.975
#1	1.6337	.07047	.00029	128.30	.00135
#2	1.6533	.07065	.00023	129.50	.00157
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00180**	**4.5329**	**-.00084**	**-.00073**	**2.9561**
Stddev	.00049	.0030	.00014	.00181	.0206
%RSD	27.182	.06606	16.167	248.04	.69702
#1	.00145	4.5308	-.00074	.00055	2.9415
#2	.00215	4.5350	-.00093	-.00201	2.9707
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00058**	**.04399**	**.00027**	**-.00043**	**.00051**
Stddev	.00031	.00026	.00034	.00059	.00017
%RSD	52.681	.59536	124.28	137.18	34.389
#1	-.00080	.04418	.00051	-.00085	.00038
#2	-.00037	.04380	.00003	-.00001	.00063
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121514-d-6-a Acquired: 7/25/2017 17:32:16 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.02058**
Stddev	.00030
%RSD	1.4413
#1	.02037
#2	.02079
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3433.0**	**2460.8**	**17252.**	**3417.1**
Stddev	1.3	.6	13.	10.1
%RSD	.03689	.02265	.07515	.29691
#1	3432.1	2461.2	17261.	3424.3
#2	3433.9	2460.4	17243.	3409.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	91.550%	102.43%	99.674%	105.58%
Range				

Sample Name: CCV-4147885 Acquired: 7/25/2017 17:35:43 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.52275**	**24.869**	**.51291**	**.49538**	**.47652**
Stddev	.00095	.089	.00414	.00058	.00120
%RSD	.18082	.35738	.80720	.11802	.25093
#1	.52342	24.931	.50998	.49496	.47737
#2	.52208	24.806	.51584	.49579	.47568
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.48563**	**24.574**	**.49569**	**-.0100**	**.49225**
Stddev	.00029	.026	.00060	.0209	.00043
%RSD	.05947	.10644	.12005	209.1	.08674
#1	.48543	24.556	.49611	.0048	.49255
#2	.48584	24.593	.49527	-.0247	.49195
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.54294**	**.47303**	**23.444**	**23.719**	**.49111**
Stddev	.00175	.00379	.049	.065	.00075
%RSD	.32154	.80022	.20893	.27219	.15357
#1	.54417	.47571	23.410	23.765	.49165
#2	.54170	.47035	23.479	23.674	.49058
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4147885 Acquired: 7/25/2017 17:35:43 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.936**	**.50493**	**.51107**	**24.366**	**.49486**
Stddev	.082	.00112	.00006	.003	.00001
%RSD	.32880	.22105	.01115	.01319	.00144
#1	24.994	.50572	.51111	24.368	.49487
#2	24.878	.50414	.51103	24.364	.49486
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50290**	**24.648**	**.48897**	**.50611**	**24.004**
Stddev	.00045	.030	.00055	.00148	.069
%RSD	.08970	.12240	.11163	.29338	.28807
#1	.50322	24.627	.48936	.50506	23.955
#2	.50258	24.670	.48858	.50716	24.053
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50377**	**.49667**	**.51760**	**.51283**	**.52668**
Stddev	.00130	.00057	.00025	.00202	.00200
%RSD	.25715	.11376	.04909	.39477	.37986
#1	.50285	.49707	.51777	.51140	.52809
#2	.50468	.49627	.51742	.51426	.52526
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4147885 Acquired: 7/25/2017 17:35:43 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.52734
Stddev	.00109
%RSD	.20587
#1	.52657
#2	.52810
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3454.6	2405.8	16779.	3260.9
Stddev	.0	.1	21.	10.5
%RSD	.00131	.00497	.12766	.32153
#1	3454.7	2405.7	16794.	3253.5
#2	3454.6	2405.9	16764.	3268.3

Sample Name: CCB-4130963 Acquired: 7/25/2017 17:38:55 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00049**	**.01417**	**-.00096**	**-.00005**	**.00007**
Stddev	.00085	.03314	.00132	.00020	.00004
%RSD	173.00	233.89	137.73	392.52	64.800
#1	.00011	-.00926	-.00002	-.00019	.00010
#2	-.00109	.03760	-.00189	.00009	.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00000**	**.00413**	**-.00011**	**.0006**	**.00013**
Stddev	.00004	.00360	.00009	.0264	.00006
%RSD	1947.9	87.132	80.732	4073.	45.614
#1	-.00003	.00668	-.00017	-.0180	.00017
#2	.00002	.00159	-.00005	.0193	.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00012**	**.00017**	**.00291**	**.02120**	**.00054**
Stddev	.00017	.00119	.00013	.00745	.00113
%RSD	138.62	695.76	4.5044	35.131	210.47
#1	.00000	-.00067	.00282	.01594	.00134
#2	.00024	.00101	.00300	.02647	-.00026
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4130963 Acquired: 7/25/2017 17:38:55 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00294**	**.00008**	**.00017**	**.01006**	**.00018**
Stddev	.00275	.00004	.00003	.01357	.00026
%RSD	93.545	46.633	20.336	134.93	140.38
#1	-.00099	.00005	.00014	.00046	.00037
#2	-.00488	.00011	.00019	.01965	.00000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00014**	**-.00080**	**-.00156**	**-.00022**	**.02308**
Stddev	.00138	.00183	.00102	.00033	.00595
%RSD	958.32	227.43	65.640	151.51	25.796
#1	-.00112	.00049	-.00083	-.00045	.01887
#2	.00083	-.00210	-.00228	.00002	.02729
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00052**	**.00002**	**.00028**	**.00118**	**.00006**
Stddev	.00032	.00000	.00035	.00024	.00044
%RSD	62.662	22.399	122.95	20.676	743.71
#1	-.00029	.00002	.00004	.00136	.00037
#2	-.00074	.00002	.00053	.00101	-.00025
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4130963 Acquired: 7/25/2017 17:38:55 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.00057
Stddev	.00041
%RSD	71.775
#1	.00086
#2	.00028
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3780.5	2433.7	17196.	3270.4
Stddev	8.9	3.4	20.	40.0
%RSD	.23503	.13856	.11651	1.2224
#1	3774.2	2431.3	17210.	3298.7
#2	3786.8	2436.1	17182.	3242.1

Sample Name: CCVL-4147888 Acquired: 7/25/2017 17:42:25 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00633**	**.19819**	**.01575**	**.01889**	**.00202**
Stddev	.00058	.02287	.00123	.00029	.00002
%RSD	9.1080	11.538	7.8112	1.5144	1.1987
#1	.00673	.18202	.01662	.01909	.00201
#2	.00592	.21436	.01488	.01868	.00204
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00204**	**.49994**	**.00202**	**.0005**	**.00384**
Stddev	.00012	.00589	.00002	.0148	.00013
%RSD	5.9596	1.1777	.96612	2888.	3.3402
#1	.00196	.49577	.00204	.0110	.00375
#2	.00213	.50410	.00201	-.0099	.00393
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00435**	**.00991**	**.05086**	**.51276**	**.03123**
Stddev	.00014	.00068	.00151	.07224	.00168
%RSD	3.1506	6.8784	2.9665	14.088	5.3764
#1	.00425	.01039	.05192	.46168	.03242
#2	.00445	.00943	.04979	.56384	.03004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4147888 Acquired: 7/25/2017 17:42:25 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19605**	**.00319**	**.01010**	**.98760**	**.00999**
Stddev	.00361	.00002	.00005	.00456	.00056
%RSD	1.8407	.64024	.44834	.46130	5.6465
#1	.19860	.00317	.01007	.99082	.01039
#2	.19350	.00320	.01014	.98437	.00959
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00963**	**.18950**	**.01805**	**.02459**	**.52599**
Stddev	.00168	.00206	.00138	.00138	.00745
%RSD	17.425	1.0877	7.6234	5.6160	1.4163
#1	.00844	.18804	.01708	.02557	.52072
#2	.01081	.19096	.01903	.02361	.53126
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00889**	**.00497**	**.00510**	**.02077**	**.00470**
Stddev	.00061	.00006	.00039	.00049	.00045
%RSD	6.8043	1.3007	7.5655	2.3620	9.4750
#1	.00846	.00492	.00537	.02042	.00439
#2	.00932	.00501	.00482	.02111	.00502
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4147888 Acquired: 7/25/2017 17:42:25 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.01181
Stddev	.00091
%RSD	7.7074
#1	.01246
#2	.01117
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3801.0	2460.1	17297.	3260.0
Stddev	3.7	.3	98.	25.3
%RSD	.09655	.01231	.56372	.77655
#1	3803.6	2460.3	17366.	3277.9
#2	3798.4	2459.9	17228.	3242.1

Sample Name: 480-121514-d-7-a Acquired: 7/25/2017 17:45:52 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00041**	**.81990**	**.00180**	**.01729**	**.00880**
Stddev	.00005	.00824	.00173	.00046	.00003
%RSD	12.550	1.0055	96.298	2.6323	.30614
#1	-.00045	.82573	.00057	.01761	.00882
#2	-.00038	.81407	.00302	.01696	.00879
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**1.4104**	**.00015**	**-.0051**	**.00057**
Stddev	.00003	.0006	.00010	.0312	.00002
%RSD	253.31	.04355	61.989	606.1	3.1807
#1	-.00001	1.4100	.00022	.0169	.00058
#2	.00003	1.4108	.00009	-.0272	.00055
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00137**	**.00514**	**1.1115**	**.64492**	**.00149**
Stddev	.00040	.00080	.0064	.01479	.00232
%RSD	28.953	15.537	.57977	2.2939	156.07
#1	.00109	.00458	1.1069	.65538	-.00015
#2	.00165	.00571	1.1160	.63446	.00313
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121514-d-7-a Acquired: 7/25/2017 17:45:52 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.41302**	**.02647**	**.00092**	**47.575**	**.00111**
Stddev	.00564	.00014	.00011	.327	.00017
%RSD	1.3645	.53740	11.493	.68692	15.687
#1	.41700	.02657	.00100	47.344	.00124
#2	.40903	.02637	.00085	47.806	.00099
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00246**	**2.0047**	**.00020**	**-.00420**	**2.2552**
Stddev	.00104	.0056	.00021	.00117	.0209
%RSD	42.373	.28030	107.49	27.942	.92619
#1	.00320	2.0086	.00005	-.00337	2.2404
#2	.00172	2.0007	.00034	-.00503	2.2700
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00030**	**.00904**	**.03416**	**-.00012**	**.00434**
Stddev	.00013	.00011	.00058	.00011	.00064
%RSD	43.015	1.2533	1.6844	88.380	14.797
#1	-.00040	.00896	.03457	-.00020	.00479
#2	-.00021	.00912	.03375	-.00005	.00389
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121514-d-7-a Acquired: 7/25/2017 17:45:52 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.01264
Stddev	.00010
%RSD	.80910
#1	.01257
#2	.01271
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3633.3	2443.7	17178.	3357.1
Stddev	1.1	.0	2.	24.9
%RSD	.02928	.00179	.01036	.74206
#1	3634.1	2443.7	17177.	3374.7
#2	3632.6	2443.6	17179.	3339.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	96.893%	101.71%	99.247%	103.73%
Range				

Sample Name: 480-121557-a-2-a Acquired: 7/25/2017 17:49:19 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00029**	**.04303**	**.00212**	**.22077**	**.14402**
Stddev	.00044	.01590	.00418	.00061	.00001
%RSD	154.69	36.955	197.18	.27610	.00945
#1	-.00060	.03178	.00507	.22033	.14401
#2	.00003	.05427	-.00084	.22120	.14403
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00005**	**113.64**	**.00011**	**.0203**	**.00123**
Stddev	.00010	.99	.00014	.0070	.00026
%RSD	193.18	.86978	128.52	34.38	20.868
#1	.00002	112.94	.00001	.0153	.00141
#2	-.00012	114.34	.00021	.0252	.00105
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00030**	**-.00027**	**.24498**	**2.3298**	**.00702**
Stddev	.00053	.00000	.00677	.0138	.00179
%RSD	176.81	.25510	2.7631	.59467	25.462
#1	.00008	-.00027	.24020	2.3200	.00828
#2	-.00068	-.00027	.24977	2.3396	.00576
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121557-a-2-a Acquired: 7/25/2017 17:49:19 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**62.868**	**.01601**	**.00345**	**22.447**	**.00690**
Stddev	.240	.00017	.00024	.156	.00018
%RSD	.38204	1.0590	7.0537	.69316	2.6394
#1	62.699	.01589	.00362	22.337	.00678
#2	63.038	.01613	.00328	22.557	.00703
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00008**	**31.325**	**.00108**	**-.00344**	**6.4916**
Stddev	.00001	.047	.00001	.00415	.0525
%RSD	10.908	.14851	1.1932	120.40	.80911
#1	.00007	31.292	.00109	-.00638	6.4545
#2	.00008	31.358	.00107	-.00051	6.5287
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00042**	**.67415**	**.00048**	**.00092**	**.00032**
Stddev	.00027	.00398	.00023	.00024	.00070
%RSD	64.768	.59076	46.493	26.128	218.03
#1	-.00023	.67133	.00033	.00075	.00081
#2	-.00062	.67696	.00064	.00109	-.00017
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121557-a-2-a Acquired: 7/25/2017 17:49:19 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00918
Stddev	.00050
%RSD	5.4203
#1	.00953
#2	.00882
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3381.5	2348.8	16583.	3305.0
Stddev	7.6	8.2	19.	24.4
%RSD	.22437	.34849	.11658	.73923
#1	3386.9	2354.6	16597.	3322.2
#2	3376.1	2343.0	16569.	3287.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	90.177%	97.764%	95.809%	102.12%
Range				

Sample Name: 480-121557-b-3-a Acquired: 7/25/2017 17:52:43 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00020**	**.02066**	**.00451**	**.28420**	**.18575**
Stddev	.00009	.03276	.00020	.00043	.00048
%RSD	42.220	158.55	4.3264	.15000	.25603
#1	.00014	.04383	.00437	.28389	.18609
#2	.00026	-.00250	.00465	.28450	.18541
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00002**	**138.24**	**.00032**	**.0231**	**-.00030**
Stddev	.00002	.32	.00006	.0084	.00011
%RSD	103.48	.23478	17.072	36.25	36.545
#1	-.00004	138.47	.00028	.0290	-.00037
#2	-.00001	138.01	.00036	.0172	-.00022
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00029**	**-.00166**	**2.2744**	**2.7950**	**.01437**
Stddev	.00020	.00035	.0058	.0227	.00155
%RSD	69.944	21.052	.25503	.81411	10.805
#1	-.00015	-.00142	2.2785	2.8111	.01328
#2	-.00043	-.00191	2.2703	2.7789	.01547
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121557-b-3-a Acquired: 7/25/2017 17:52:43 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**81.965**	**.05046**	**.00568**	**49.899**	**.00578**
Stddev	.216	.00002	.00005	.115	.00025
%RSD	.26403	.04866	.80871	.23089	4.2976
#1	82.118	.05045	.00565	49.981	.00561
#2	81.812	.05048	.00572	49.818	.00596
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00146**	**24.092**	**-.00028**	**-.00165**	**10.030**
Stddev	.00124	.114	.00135	.00020	.049
%RSD	85.411	.47353	482.93	12.414	.48549
#1	.00058	24.012	-.00123	-.00150	10.064
#2	.00233	24.173	.00067	-.00179	9.9956
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00030**	**.61087**	**.00046**	**-.00033**	**-.00042**
Stddev	.00033	.00248	.00067	.00092	.00022
%RSD	107.80	.40647	147.29	281.67	51.268
#1	.00007	.61263	-.00002	-.00098	-.00058
#2	.00053	.60912	.00093	.00032	-.00027
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121557-b-3-a Acquired: 7/25/2017 17:52:43 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00400
Stddev	.00024
%RSD	6.0916
#1	.00383
#2	.00418
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3281.0	2316.2	16421.	3265.3
Stddev	3.8	1.9	34.	8.7
%RSD	.11714	.08037	.20547	.26627
#1	3278.3	2317.5	16397.	3259.1
#2	3283.7	2314.9	16445.	3271.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	87.496%	96.405%	94.875%	100.89%
Range				

Sample Name: 480-121464-b-1-a Acquired: 7/25/2017 17:56:06 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00037**	**.02853**	**.00104**	**.00252**	**.00011**
Stddev	.00041	.00834	.00228	.00004	.00002
%RSD	110.84	29.237	218.28	1.5430	20.510
#1	-.00008	.02263	.00265	.00254	.00009
#2	-.00066	.03443	-.00057	.00249	.00012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	**.04302**	**-.00008**	**-.0095**	**-.00002**
Stddev	.00008	.00125	.00008	.0057	.00003
%RSD	422.51	2.9151	107.15	59.67	131.36
#1	-.00004	.04213	-.00002	-.0135	-.00000
#2	.00008	.04391	-.00013	-.0055	-.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00013**	**.00038**	**.01530**	**.00209**	**.00141**
Stddev	.00042	.00045	.00153	.04792	.00027
%RSD	314.88	118.62	9.9860	2296.5	19.034
#1	-.00043	.00006	.01638	.03597	.00122
#2	.00016	.00069	.01422	-.03180	.00160
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121464-b-1-a Acquired: 7/25/2017 17:56:06 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00204**	**.00077**	**.00002**	**.00617**	**.00028**
Stddev	.00160	.00021	.00021	.00014	.00021
%RSD	78.302	27.443	973.94	2.2641	76.812
#1	.00091	.00092	-.00013	.00627	.00013
#2	.00317	.00062	.00017	.00607	.00043
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00094**	**.00507**	**-.00057**	**-.00333**	**.00760**
Stddev	.00035	.00001	.00059	.00076	.01319
%RSD	37.500	.20004	104.17	22.788	173.50
#1	-.00069	.00506	-.00015	-.00386	-.00172
#2	-.00119	.00507	-.00099	-.00279	.01692
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00090**	**.00029**	**.00050**	**.00093**	**-.00009**
Stddev	.00006	.00001	.00005	.00039	.00024
%RSD	6.9408	4.4927	10.254	41.695	255.56
#1	-.00086	.00030	.00054	.00121	.00007
#2	-.00094	.00028	.00046	.00066	-.00026
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121464-b-1-a Acquired: 7/25/2017 17:56:06 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.00080**
Stddev	.00008
%RSD	9.7797
#1	.00085
#2	.00074
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3858.0**	**2479.0**	**17477.**	**3346.4**
Stddev	3.7	2.0	35.	14.1
%RSD	.09479	.07972	.20169	.42169
#1	3860.6	2480.4	17452.	3336.5
#2	3855.4	2477.6	17502.	3356.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	102.88%	103.18%	100.98%	103.40%
Range				

Sample Name: 480-121464-b-2-a Acquired: 7/25/2017 17:59:34 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00017**	**.01114**	**.00033**	**.03511**	**.07778**
Stddev	.00005	.00313	.00339	.00039	.00015
%RSD	28.229	28.067	1024.2	1.0980	.19840
#1	-.00014	.00893	.00273	.03483	.07789
#2	-.00021	.01335	-.00207	.03538	.07767
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00007**	**154.58**	**.00043**	**.0126**	**.00051**
Stddev	.00011	.74	.00003	.0097	.00018
%RSD	159.64	.48020	7.3899	77.07	35.412
#1	.00001	155.11	.00045	.0195	.00038
#2	-.00014	154.06	.00041	.0058	.00064
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00007**	**.00156**	**.52566**	**2.0267**	**.00710**
Stddev	.00020	.00074	.00776	.0519	.00038
%RSD	279.79	47.544	1.4756	2.5614	5.3399
#1	-.00007	.00104	.53114	2.0634	.00683
#2	.00021	.00209	.52018	1.9900	.00736
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121464-b-2-a Acquired: 7/25/2017 17:59:34 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**65.324**	**.11154**	**.00061**	**5.1956**	**.00219**
Stddev	.102	.00028	.00011	.0228	.00039
%RSD	.15633	.24920	17.300	.43926	17.858
#1	65.396	.11174	.00068	5.2117	.00246
#2	65.252	.11135	.00054	5.1794	.00191
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00105**	**16.575**	**-.00261**	**-.00347**	**7.9346**
Stddev	.00209	.001	.00217	.00295	.0441
%RSD	198.29	.00474	83.362	84.943	.55530
#1	.00253	16.575	-.00107	-.00138	7.9658
#2	-.00042	16.574	-.00414	-.00555	7.9035
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00063**	**.17662**	**-.00025**	**.00016**	**-.00071**
Stddev	.00036	.00041	.00041	.00064	.00004
%RSD	57.380	.23222	164.52	397.66	6.2216
#1	-.00037	.17691	.00004	-.00029	-.00074
#2	-.00088	.17633	-.00055	.00062	-.00068
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121464-b-2-a Acquired: 7/25/2017 17:59:34 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.64183
Stddev	.00306
%RSD	.47739
#1	.64400
#2	.63967
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3356.7	2330.7	16522.	3286.3
Stddev	4.2	2.2	11.	7.1
%RSD	.12386	.09312	.06465	.21459
#1	3359.7	2332.2	16515.	3281.3
#2	3353.8	2329.1	16530.	3291.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.516%	97.009%	95.459%	101.54%
Range				

Sample Name: 480-121464-b-3-a Acquired: 7/25/2017 18:02:57 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00041**	**.00938**	**.00086**	**.01926**	**.05866**
Stddev	.00037	.00881	.00190	.00031	.00012
%RSD	90.140	93.861	220.97	1.5940	.19774
#1	-.00015	.00316	.00221	.01948	.05858
#2	-.00068	.01561	-.00048	.01904	.05874
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00010**	**89.552**	**.00222**	**-.0044**	**.00009**
Stddev	.00006	.009	.00006	.0143	.00010
%RSD	61.812	.01057	2.8766	323.1	105.94
#1	-.00014	89.546	.00217	-.0146	.00016
#2	-.00005	89.559	.00226	.0057	.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**-.00056**	**.00319**	**1.0702**	**.00257**
Stddev	.00026	.00061	.00292	.0184	.00015
%RSD	596.74	108.46	91.609	1.7152	5.9284
#1	.00014	-.00013	.00112	1.0832	.00268
#2	-.00022	-.00099	.00526	1.0572	.00246
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121464-b-3-a Acquired: 7/25/2017 18:02:57 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**30.230**	**.03303**	**.00498**	**3.9291**	**.00365**
Stddev	.075	.00012	.00009	.0062	.00031
%RSD	.24853	.35647	1.7690	.15644	8.6073
#1	30.177	.03312	.00492	3.9335	.00388
#2	30.283	.03295	.00505	3.9248	.00343
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00266**	**8.7263**	**-.00055**	**-.00299**	**5.5876**
Stddev	.00023	.0136	.00012	.00243	.0114
%RSD	8.8361	.15590	22.202	81.199	.20437
#1	.00283	8.7167	-.00064	-.00470	5.5957
#2	.00249	8.7359	-.00047	-.00127	5.5795
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00041**	**.09669**	**-.00015**	**.00157**	**-.00056**
Stddev	.00024	.00018	.00032	.00123	.00015
%RSD	60.287	.18960	211.38	77.994	26.325
#1	-.00058	.09682	.00007	.00244	-.00067
#2	-.00023	.09656	-.00038	.00071	-.00046
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121464-b-3-a Acquired: 7/25/2017 18:02:57 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**4.5193**
Stddev	.0079
%RSD	.17554
#1	4.5137
#2	4.5249
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3505.1**	**2383.5**	**16805.**	**3318.7**
Stddev	2.5	.9	31.	.0
%RSD	.07084	.03652	.18688	.00077
#1	3503.4	2382.9	16827.	3318.7
#2	3506.9	2384.1	16782.	3318.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	93.473%	99.206%	97.089%	102.54%
Range				

Sample Name: 480-121464-b-4-a Acquired: 7/25/2017 18:06:21 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00048**	**.01588**	**.01218**	**.04112**	**.10154**
Stddev	.00020	.00719	.00107	.00007	.00027
%RSD	41.539	45.282	8.8188	.16852	.26813
#1	-.00062	.01080	.01142	.04107	.10173
#2	-.00034	.02097	.01294	.04117	.10135
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**106.07**	**.00016**	**-.0050**	**-.00011**
Stddev	.00006	.88	.00001	.0368	.00007
%RSD	171.08	.83029	5.7287	729.6	67.473
#1	-.00008	106.69	.00015	.0210	-.00006
#2	.00001	105.45	.00017	-.0311	-.00016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00020**	**-.00122**	**3.2074**	**1.5893**	**.00195**
Stddev	.00003	.00035	.0187	.0756	.00056
%RSD	16.380	28.694	.58290	4.7546	28.531
#1	-.00022	-.00146	3.2206	1.6428	.00234
#2	-.00018	-.00097	3.1941	1.5359	.00156
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121464-b-4-a Acquired: 7/25/2017 18:06:21 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**37.509**	**.04373**	**.00191**	**32.307**	**.00319**
Stddev	.045	.00006	.00007	.168	.00034
%RSD	.12096	.12868	3.5401	.52016	10.578
#1	37.541	.04377	.00186	32.425	.00342
#2	37.477	.04369	.00196	32.188	.00295
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00070**	**9.8313**	**-.00241**	**-.00270**	**6.8706**
Stddev	.00042	.0038	.00234	.00322	.0531
%RSD	60.426	.03820	97.310	119.22	.77230
#1	-.00099	9.8287	-.00075	-.00042	6.9082
#2	-.00040	9.8340	-.00407	-.00498	6.8331
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00060**	**.15567**	**.00031**	**.00117**	**-.00060**
Stddev	.00059	.00103	.00033	.00054	.00048
%RSD	98.583	.66155	107.25	46.219	79.075
#1	-.00018	.15640	.00054	.00155	-.00094
#2	-.00102	.15494	.00007	.00079	-.00027
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121464-b-4-a Acquired: 7/25/2017 18:06:21 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.07646**
Stddev	.00119
%RSD	1.5574
#1	.07730
#2	.07562
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3402.0**	**2359.5**	**16706.**	**3308.2**
Stddev	3.4	.7	58.	5.0
%RSD	.10111	.03003	.34578	.15260
#1	3399.6	2359.0	16665.	3304.6
#2	3404.4	2360.0	16747.	3311.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	90.724%	98.209%	96.521%	102.22%
Range				

Sample Name: 480-121464-b-5-a Acquired: 7/25/2017 18:09:45 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00148**	**.02614**	**.00103**	**.15936**	**.07821**
Stddev	.00066	.00616	.00043	.00013	.00030
%RSD	44.872	23.567	41.500	.08332	.38353
#1	-.00101	.02179	.00073	.15945	.07842
#2	-.00194	.03050	.00134	.15927	.07800
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	**140.92**	**.00022**	**-.0015**	**.00136**
Stddev	.00003	.86	.00009	.0111	.00005
%RSD	154.56	.61358	41.599	755.8	3.6916
#1	-.00000	140.31	.00015	-.0093	.00139
#2	.00004	141.53	.00028	.0064	.00132
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00081**	**.00040**	**.01469**	**2.8405**	**-.00269**
Stddev	.00021	.00132	.00128	.0237	.00009
%RSD	25.945	327.48	8.7086	.83444	3.2402
#1	-.00096	.00134	.01378	2.8237	-.00276
#2	-.00066	-.00053	.01559	2.8572	-.00263
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121464-b-5-a Acquired: 7/25/2017 18:09:45 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**33.885**	**1.3713**	**.00010**	**12.484**	**.00894**
Stddev	.061	.0031	.00001	.046	.00013
%RSD	.18119	.22801	5.7052	.36604	1.4953
#1	33.928	1.3735	.00009	12.451	.00903
#2	33.841	1.3691	.00010	12.516	.00884
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00119**	**8.7362**	**-.00268**	**-.00109**	**6.7678**
Stddev	.00074	.0141	.00188	.00064	.0192
%RSD	62.515	.16082	70.293	59.266	.28384
#1	.00066	8.7461	-.00135	-.00154	6.7542
#2	.00171	8.7263	-.00401	-.00063	6.7814
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00027**	**.23452**	**-.00012**	**.00172**	**-.00039**
Stddev	.00023	.00078	.00004	.00095	.00055
%RSD	86.288	.33089	35.772	55.314	140.82
#1	-.00011	.23397	-.00009	.00105	-.00000
#2	-.00043	.23507	-.00015	.00240	-.00078
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121464-b-5-a Acquired: 7/25/2017 18:09:45 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00230
Stddev	.00055
%RSD	23.719
#1	.00269
#2	.00191
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3395.5	2348.6	16646.	3321.2
Stddev	6.6	5.3	73.	27.6
%RSD	.19408	.22625	.43637	.83109
#1	3390.9	2344.9	16594.	3340.7
#2	3400.2	2352.4	16697.	3301.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	90.550%	97.756%	96.172%	102.62%
Range				

Sample Name: 480-121464-b-6-a Acquired: 7/25/2017 18:13:08 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00077**	**.02848**	**.00036**	**.04589**	**.05420**
Stddev	.00056	.00082	.00308	.00009	.00010
%RSD	71.748	2.8931	854.43	.20011	.18395
#1	-.00117	.02790	-.00182	.04582	.05413
#2	-.00038	.02906	.00254	.04595	.05427
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**153.85**	**.00011**	**.0074**	**-.00023**
Stddev	.00002	.54	.00009	.0173	.00006
%RSD	38.607	.35187	79.876	233.9	25.392
#1	.00006	153.47	.00005	-.0048	-.00028
#2	.00003	154.24	.00018	.0196	-.00019
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00023**	**-.00159**	**.12767**	**1.5187**	**-.00190**
Stddev	.00045	.00095	.00159	.0264	.00120
%RSD	192.43	59.393	1.2488	1.7376	62.827
#1	.00008	-.00226	.12654	1.5000	-.00106
#2	-.00055	-.00092	.12879	1.5374	-.00275
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121464-b-6-a Acquired: 7/25/2017 18:13:08 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**41.645**	**.12888**	**.00009**	**7.5215**	**.00156**
Stddev	.162	.00061	.00011	.0081	.00006
%RSD	.38835	.47211	129.89	.10829	4.0672
#1	41.531	.12845	.00001	7.5158	.00152
#2	41.760	.12931	.00017	7.5273	.00161
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00022**	**4.8184**	**-.00032**	**-.00250**	**7.7735**
Stddev	.00016	.0053	.00080	.00125	.0473
%RSD	73.557	.10924	250.88	50.033	.60884
#1	-.00011	4.8221	-.00088	-.00339	7.7400
#2	-.00034	4.8146	.00025	-.00162	7.8069
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00037**	**.20182**	**.00009**	**.00099**	**-.00035**
Stddev	.00001	.00002	.00000	.00195	.00004
%RSD	1.4208	.01201	3.2017	197.87	10.597
#1	-.00037	.20184	.00008	.00236	-.00032
#2	-.00037	.20180	.00009	-.00039	-.00037
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121464-b-6-a Acquired: 7/25/2017 18:13:08 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**1.5763**
Stddev	.0153
%RSD	.97179
#1	1.5654
#2	1.5871
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3383.7**	**2346.4**	**16556.**	**3294.5**
Stddev	8.5	4.8	131.	20.7
%RSD	.25129	.20596	.79390	.62906
#1	3389.7	2349.8	16649.	3309.1
#2	3377.7	2343.0	16464.	3279.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	90.235%	97.664%	95.656%	101.80%
Range				

Sample Name: CCV-4147885 Acquired: 7/25/2017 18:16:33 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.52477**	**24.836**	**.51291**	**.49588**	**.47799**
Stddev	.00155	.086	.00081	.00045	.00110
%RSD	.29550	.34792	.15700	.09080	.23106
#1	.52587	24.897	.51235	.49557	.47721
#2	.52367	24.775	.51348	.49620	.47878
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.48703**	**24.609**	**.49646**	**-.0158**	**.49225**
Stddev	.00077	.064	.00029	.0110	.00076
%RSD	.15859	.26091	.05927	69.39	.15343
#1	.48757	24.654	.49625	-.0080	.49172
#2	.48648	24.563	.49667	-.0235	.49278
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.54175**	**.47495**	**23.500**	**23.950**	**.49255**
Stddev	.00010	.00109	.141	.102	.00221
%RSD	.01913	.22940	.59911	.42744	.44770
#1	.54168	.47417	23.600	24.023	.49411
#2	.54182	.47572	23.401	23.878	.49099
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4147885 Acquired: 7/25/2017 18:16:33 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.977**	**.50591**	**.51096**	**24.416**	**.49628**
Stddev	.072	.00057	.00062	.030	.00029
%RSD	.28758	.11313	.12088	.12426	.05817
#1	24.926	.50551	.51053	24.438	.49649
#2	25.028	.50632	.51140	24.395	.49608
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50325**	**24.694**	**.49401**	**.50888**	**23.988**
Stddev	.00012	.037	.00088	.00076	.056
%RSD	.02394	.14884	.17802	.14983	.23369
#1	.50334	24.668	.49463	.50942	24.028
#2	.50317	24.720	.49339	.50834	23.948
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50380**	**.49603**	**.51791**	**.51465**	**.52608**
Stddev	.00131	.00017	.00328	.00206	.00020
%RSD	.25943	.03472	.63280	.40013	.03753
#1	.50288	.49591	.51559	.51319	.52621
#2	.50473	.49615	.52023	.51611	.52594
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4147885 Acquired: 7/25/2017 18:16:33 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.52676
Stddev	.00003
%RSD	.00484
#1	.52678
#2	.52674
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3438.1	2394.9	16690.	3260.6
Stddev	5.4	5.1	29.	5.8
%RSD	.15739	.21148	.17300	.17919
#1	3441.9	2398.4	16710.	3256.5
#2	3434.2	2391.3	16670.	3264.8

Sample Name: CCB-4130963 Acquired: 7/25/2017 18:19:45 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00062**	**.01913**	**.00018**	**.00033**	**.00003**
Stddev	.00106	.02341	.00288	.00010	.00001
%RSD	171.82	122.39	1627.4	29.313	32.410
#1	-.00137	.00257	-.00186	.00026	.00003
#2	.00013	.03568	.00221	.00039	.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**.00700**	**.00004**	**.0154**	**.00012**
Stddev	.00001	.00087	.00005	.0030	.00020
%RSD	17.853	12.436	152.34	19.74	161.51
#1	.00005	.00639	.00007	.0176	.00027
#2	.00004	.00762	-.00000	.0133	-.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00029**	**.00012**	**.00356**	**.00914**	**.00082**
Stddev	.00002	.00030	.00115	.04149	.00084
%RSD	7.3138	249.60	32.317	453.97	102.48
#1	-.00027	-.00009	.00275	-.02020	.00023
#2	-.00030	.00033	.00437	.03848	.00141
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4130963 Acquired: 7/25/2017 18:19:45 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00139**	**.00019**	**.00012**	**-.00073**	**.00052**
Stddev	.00100	.00004	.00010	.00698	.00010
%RSD	71.939	22.240	85.751	955.01	19.960
#1	-.00209	.00016	.00005	.00420	.00045
#2	-.00068	.00022	.00019	-.00567	.00059
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00159**	**-.00023**	**-.00007**	**-.00245**	**.01636**
Stddev	.00086	.00007	.00008	.00015	.02456
%RSD	54.186	29.484	113.71	6.2306	150.09
#1	-.00220	-.00027	-.00012	-.00255	-.00100
#2	-.00098	-.00018	-.00001	-.00234	.03373
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00020**	**.00009**	**.00074**	**.00071**	**.00007**
Stddev	.00008	.00006	.00018	.00023	.00061
%RSD	38.728	61.285	24.648	32.879	825.98
#1	-.00014	.00013	.00087	.00087	.00051
#2	-.00025	.00005	.00061	.00054	-.00036
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4130963 Acquired: 7/25/2017 18:19:45 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.00131
Stddev	.00025
%RSD	19.224
#1	.00149
#2	.00113
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3768.1	2426.5	17161.	3254.4
Stddev	3.6	3.0	87.	1.9
%RSD	.09601	.12251	.50657	.05965
#1	3765.6	2424.4	17223.	3253.0
#2	3770.7	2428.6	17100.	3255.8

Sample Name: CCVL-4147888 Acquired: 7/25/2017 18:23:15 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00494**	**.19377**	**.01476**	**.01900**	**.00206**
Stddev	.00053	.00303	.00078	.00001	.00007
%RSD	10.821	1.5630	5.3174	.07672	3.3844
#1	.00532	.19591	.01421	.01901	.00201
#2	.00457	.19162	.01532	.01899	.00211
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00211**	**.49536**	**.00185**	**.0012**	**.00396**
Stddev	.00005	.00026	.00013	.0116	.00000
%RSD	2.2997	.05166	6.9843	961.5	.01422
#1	.00214	.49554	.00194	.0094	.00396
#2	.00207	.49518	.00175	-.0070	.00396
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00417**	**.01007**	**.05093**	**.47824**	**.03025**
Stddev	.00037	.00074	.00250	.01611	.00162
%RSD	8.9560	7.3528	4.9175	3.3678	5.3589
#1	.00444	.01059	.05270	.46685	.03139
#2	.00391	.00954	.04916	.48963	.02910
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4147888 Acquired: 7/25/2017 18:23:15 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20626**	**.00319**	**.01045**	**.98356**	**.00977**
Stddev	.00467	.00005	.00023	.00224	.00024
%RSD	2.2653	1.7178	2.2171	.22737	2.5046
#1	.20957	.00323	.01061	.98514	.00994
#2	.20296	.00315	.01028	.98198	.00960
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00842**	**.19255**	**.01722**	**.02421**	**.49631**
Stddev	.00158	.00002	.00164	.00098	.01504
%RSD	18.789	.01016	9.5250	4.0619	3.0294
#1	.00954	.19256	.01606	.02490	.48568
#2	.00730	.19254	.01838	.02351	.50694
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00896**	**.00499**	**.00511**	**.02128**	**.00522**
Stddev	.00036	.00012	.00022	.00050	.00021
%RSD	4.0486	2.3312	4.2488	2.3571	4.1071
#1	.00922	.00491	.00496	.02164	.00537
#2	.00870	.00508	.00527	.02093	.00507
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4147888 Acquired: 7/25/2017 18:23:15 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.01188
Stddev	.00048
%RSD	4.0232
#1	.01221
#2	.01154
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3800.0	2455.6	17321.	3282.8
Stddev	4.0	1.5	5.	14.8
%RSD	.10609	.06287	.02754	.45215
#1	3802.9	2454.5	17324.	3293.2
#2	3797.2	2456.7	17318.	3272.3

Sample Name: 480-121464-b-7-a Acquired: 7/25/2017 18:26:43 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00049**	**-.00120**	**.01605**	**.04408**	**.05222**
Stddev	.00142	.01228	.00066	.00011	.00027
%RSD	291.99	1025.2	4.1344	.24044	.51205
#1	.00052	.00748	.01558	.04401	.05203
#2	-.00149	-.00988	.01652	.04416	.05241
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00002**	**135.40**	**.00016**	**.0008**	**.00054**
Stddev	.00007	.00	.00004	.0156	.00015
%RSD	354.37	.00243	21.850	1843.	27.953
#1	.00003	135.40	.00014	-.0102	.00044
#2	-.00007	135.40	.00019	.0119	.00065
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00038**	**.00045**	**5.6497**	**.80316**	**.00139**
Stddev	.00000	.00064	.0151	.04506	.00029
%RSD	.97168	141.90	.26761	5.6097	21.045
#1	-.00037	.00091	5.6604	.83502	.00160
#2	-.00038	-.00000	5.6390	.77131	.00118
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121464-b-7-a Acquired: 7/25/2017 18:26:43 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**41.341**	**.26573**	**.00314**	**5.3261**	**.00598**
Stddev	.116	.00145	.00024	.0151	.00004
%RSD	.27963	.54710	7.6047	.28334	.63248
#1	41.259	.26470	.00298	5.3154	.00595
#2	41.423	.26676	.00331	5.3367	.00600
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00115**	**1.4857**	**.00140**	**-.00286**	**12.457**
Stddev	.00003	.0088	.00097	.00500	.027
%RSD	2.9674	.59281	69.105	174.70	.21308
#1	.00112	1.4920	.00208	-.00640	12.438
#2	.00117	1.4795	.00072	.00067	12.476
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00022**	**.16232**	**-.00028**	**-.00034**	**.00001**
Stddev	.00004	.00016	.00058	.00150	.00030
%RSD	16.135	.10053	205.50	438.85	2163.2
#1	-.00020	.16220	-.00069	-.00140	.00022
#2	-.00025	.16243	.00013	.00072	-.00020
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121464-b-7-a Acquired: 7/25/2017 18:26:43 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**1.7615**
Stddev	.0007
%RSD	.04222
#1	1.7620
#2	1.7609
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3414.5**	**2366.1**	**16733.**	**3292.0**
Stddev	10.0	4.7	8.	2.4
%RSD	.29278	.19808	.04748	.07397
#1	3421.5	2369.4	16727.	3290.3
#2	3407.4	2362.8	16739.	3293.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	91.056%	98.484%	96.675%	101.72%
Range				

Sample Name: 480-121464-b-8-a Acquired: 7/25/2017 18:30:06 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00086**	**.00929**	**.01615**	**.03354**	**.08825**
Stddev	.00010	.00046	.00002	.00014	.00006
%RSD	11.132	4.9002	.11563	.40566	.06421
#1	-.00080	.00961	.01613	.03344	.08829
#2	-.00093	.00896	.01616	.03364	.08821
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**98.839**	**.00279**	**-.0050**	**.00065**
Stddev	.00004	.372	.00002	.0046	.00012
%RSD	94.831	.37607	.63534	92.32	18.409
#1	.00007	99.102	.00278	-.0082	.00073
#2	.00001	98.576	.00281	-.0017	.00056
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00045**	**-.00095**	**2.8830**	**1.9989**	**-.00228**
Stddev	.00004	.00101	.0032	.0075	.00027
%RSD	9.2074	106.59	.11086	.37311	11.780
#1	-.00048	-.00023	2.8853	1.9936	-.00209
#2	-.00043	-.00167	2.8808	2.0042	-.00246
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121464-b-8-a Acquired: 7/25/2017 18:30:06 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**20.324**	**.30202**	**.00071**	**3.5889**	**.00159**
Stddev	.027	.00037	.00007	.0267	.00010
%RSD	.13188	.12100	10.222	.74549	6.1889
#1	20.343	.30176	.00066	3.6078	.00166
#2	20.305	.30228	.00076	3.5700	.00152
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00323**	**5.4347**	**-.00109**	**-.00055**	**4.1464**
Stddev	.00001	.0058	.00232	.00022	.0293
%RSD	.30832	.10657	212.55	40.119	.70563
#1	.00324	5.4388	-.00274	-.00071	4.1671
#2	.00322	5.4306	.00055	-.00039	4.1257
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00025**	**.10198**	**-.00031**	**-.00028**	**.00004**
Stddev	.00004	.00017	.00029	.00001	.00011
%RSD	14.937	.16772	95.874	4.3451	247.31
#1	-.00028	.10186	-.00010	-.00029	-.00003
#2	-.00022	.10210	-.00051	-.00028	.00012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121464-b-8-a Acquired: 7/25/2017 18:30:06 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.93650
Stddev	.00236
%RSD	.25168
#1	.93483
#2	.93816
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3507.6	2387.3	16859.	3300.1
Stddev	4.6	2.4	12.	4.0
%RSD	.13203	.10238	.07116	.12202
#1	3510.9	2389.0	16851.	3303.0
#2	3504.3	2385.6	16868.	3297.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	93.539%	99.365%	97.404%	101.97%
Range				

Sample Name: 480-121464-b-9-a Acquired: 7/25/2017 18:33:30 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00034**	**.01799**	**.01189**	**.02558**	**.12323**
Stddev	.00012	.00929	.00077	.00029	.00000
%RSD	34.388	51.638	6.4929	1.1310	.00112
#1	-.00026	.02456	.01243	.02578	.12323
#2	-.00043	.01142	.01134	.02537	.12323
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**114.32**	**-.00007**	**-.0215**	**.00346**
Stddev	.00001	.18	.00010	.0267	.00014
%RSD	70.254	.15410	142.15	124.2	3.9211
#1	.00001	114.20	.00000	-.0026	.00336
#2	.00000	114.45	-.00013	-.0404	.00356
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00093**	**-.00069**	**13.463**	**1.5972**	**-.00264**
Stddev	.00007	.00016	.043	.0110	.00006
%RSD	7.9632	23.469	.32083	.68674	2.2380
#1	-.00098	-.00058	13.432	1.5895	-.00260
#2	-.00088	-.00081	13.493	1.6050	-.00268
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121464-b-9-a Acquired: 7/25/2017 18:33:30 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**33.671**	**3.0801**	**.00045**	**2.6456**	**.00264**
Stddev	.004	.0078	.00010	.0112	.00028
%RSD	.01162	.25488	21.152	.42432	10.482
#1	33.674	3.0857	.00052	2.6376	.00244
#2	33.669	3.0746	.00038	2.6535	.00283
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00089**	**4.8979**	**.00150**	**-.00357**	**7.2500**
Stddev	.00016	.0034	.00247	.00018	.0369
%RSD	17.813	.06838	164.25	5.1172	.50969
#1	.00077	4.9003	-.00024	-.00344	7.2238
#2	.00100	4.8956	.00325	-.00370	7.2761
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00005**	**.27033**	**-.00060**	**.00108**	**-.00052**
Stddev	.00016	.00053	.00008	.00003	.00021
%RSD	327.31	.19605	13.470	2.4546	39.569
#1	.00006	.26996	-.00065	.00106	-.00037
#2	-.00016	.27071	-.00054	.00110	-.00066
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121464-b-9-a Acquired: 7/25/2017 18:33:30 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.16890**
Stddev	.00137
%RSD	.81102
#1	.16987
#2	.16794
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3446.2**	**2370.6**	**16782.**	**3313.5**
Stddev	3.8	1.8	2.	14.7
%RSD	.11035	.07492	.01150	.44231
#1	3443.5	2369.4	16783.	3303.1
#2	3448.9	2371.9	16780.	3323.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	91.902%	98.672%	96.957%	102.38%
Range				

Sample Name: 480-121464-b-10-a Acquired: 7/25/2017 18:36:53 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00059**	**.01985**	**.00922**	**.03219**	**.07525**
Stddev	.00051	.00130	.00184	.00025	.00039
%RSD	87.376	6.5367	19.905	.78538	.51945
#1	-.00095	.02077	.00792	.03201	.07497
#2	-.00022	.01893	.01052	.03237	.07553
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**56.108**	**.00026**	**-.0279**	**.00020**
Stddev	.00000	.540	.00005	.0122	.00005
%RSD	10.524	.96210	17.580	43.76	24.702
#1	-.00004	55.726	.00029	-.0365	.00024
#2	-.00005	56.489	.00023	-.0193	.00017
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00042**	**-.00045**	**4.4555**	**2.7811**	**-.00123**
Stddev	.00023	.00042	.0325	.0363	.00150
%RSD	54.881	93.902	.72845	1.3056	122.11
#1	-.00025	-.00015	4.4325	2.7554	-.00229
#2	-.00058	-.00075	4.4784	2.8067	-.00017
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121464-b-10-a Acquired: 7/25/2017 18:36:53 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**17.927**	**.64600**	**.00335**	**2.8011**	**.00124**
Stddev	.166	.00385	.00004	.0116	.00004
%RSD	.92531	.59525	1.0575	.41477	2.8906
#1	17.810	.64328	.00333	2.7929	.00127
#2	18.044	.64872	.00338	2.8093	.00122
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00064**	**5.9038**	**-.00093**	**-.00114**	**5.5796**
Stddev	.00039	.0086	.00008	.00001	.0830
%RSD	61.521	.14583	9.1263	.90802	1.4883
#1	.00036	5.9099	-.00099	-.00114	5.5209
#2	.00092	5.8977	-.00087	-.00115	5.6383
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00020**	**.16690**	**.00003**	**-.00016**	**-.00020**
Stddev	.00027	.00167	.00035	.00067	.00040
%RSD	136.47	1.0026	1045.6	421.54	200.90
#1	-.00038	.16571	-.00021	.00031	.00008
#2	-.00001	.16808	.00028	-.00063	-.00048
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121464-b-10-a Acquired: 7/25/2017 18:36:53 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.16854
Stddev	.00183
%RSD	1.0848
#1	.16724
#2	.16983
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3601.3	2426.4	17162.	3353.1
Stddev	9.0	4.0	126.	24.6
%RSD	.24924	.16303	.73611	.73363
#1	3607.6	2429.2	17252.	3370.5
#2	3594.9	2423.6	17073.	3335.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	96.038%	100.99%	99.156%	103.61%
Range				

Sample Name: 480-121464-b-11-a Acquired: 7/25/2017 18:40:17 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00066**	**.02933**	**.00129**	**.02073**	**.04461**
Stddev	.00057	.01534	.00179	.00004	.00010
%RSD	86.407	52.302	138.63	.16888	.23461
#1	-.00026	.01848	.00256	.02071	.04454
#2	-.00107	.04017	.00003	.02076	.04469
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00000**	**161.54**	**.00028**	**.0079**	**-.00008**
Stddev	.00010	.43	.00006	.0294	.00012
%RSD	2221.8	.26794	20.748	370.5	156.84
#1	.00007	161.23	.00032	-.0129	.00001
#2	-.00008	161.85	.00024	.0287	-.00016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00037**	**-.00206**	**.00488**	**1.8064**	**-.00267**
Stddev	.00114	.00037	.00085	.0334	.00149
%RSD	304.35	18.198	17.452	1.8474	55.705
#1	-.00043	-.00232	.00548	1.8300	-.00373
#2	.00118	-.00179	.00428	1.7828	-.00162
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121464-b-11-a Acquired: 7/25/2017 18:40:17 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**39.307**	**.15241**	**-.00005**	**4.1097**	**.00126**
Stddev	.155	.00017	.00001	.0016	.00012
%RSD	.39473	.11090	24.530	.03890	9.6499
#1	39.198	.15229	-.00006	4.1108	.00134
#2	39.417	.15253	-.00004	4.1085	.00117
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00073**	**11.490**	**.00136**	**-.00275**	**9.8897**
Stddev	.00094	.027	.00086	.00129	.0613
%RSD	129.31	.23413	62.879	46.964	.61981
#1	.00006	11.471	.00076	-.00366	9.8464
#2	.00140	11.509	.00197	-.00184	9.9331
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00034**	**.22525**	**.00024**	**.00141**	**-.00006**
Stddev	.00010	.00021	.00084	.00039	.00018
%RSD	29.304	.09234	347.75	27.801	284.00
#1	-.00041	.22510	.00083	.00114	.00006
#2	-.00027	.22540	-.00035	.00169	-.00019
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121464-b-11-a Acquired: 7/25/2017 18:40:17 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00326
Stddev	.00021
%RSD	6.3423
#1	.00311
#2	.00340
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3386.5	2343.7	16666.	3294.5
Stddev	4.5	8.5	4.	14.7
%RSD	.13242	.36178	.02660	.44708
#1	3389.7	2349.7	16669.	3304.9
#2	3383.4	2337.7	16662.	3284.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	90.311%	97.552%	96.286%	101.80%
Range				

Sample Name: 480-121464-b-12-a Acquired: 7/25/2017 18:43:41 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00033**	**.01727**	**.00065**	**.04753**	**.09741**
Stddev	.00039	.01050	.00025	.00027	.00003
%RSD	116.75	60.824	38.688	.57633	.02731
#1	-.00006	.02469	.00083	.04733	.09743
#2	-.00061	.00984	.00047	.04772	.09739
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00007**	**118.71**	**.00016**	**.0157**	**.00052**
Stddev	.00005	.17	.00009	.0151	.00021
%RSD	73.270	.13956	54.046	95.86	40.461
#1	-.00004	118.83	.00010	.0263	.00037
#2	-.00011	118.59	.00022	.0051	.00066
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00013**	**-.00045**	**.80438**	**3.0286**	**-.00200**
Stddev	.00009	.00158	.00857	.0532	.00092
%RSD	71.625	353.19	1.0650	1.7572	45.872
#1	.00019	.00067	.79832	3.0662	-.00135
#2	.00006	-.00156	.81044	2.9909	-.00265
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121464-b-12-a Acquired: 7/25/2017 18:43:41 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**26.403**	**.70196**	**.00020**	**9.7546**	**.00245**
Stddev	.011	.00161	.00005	.0007	.00042
%RSD	.04105	.22949	22.407	.00681	16.995
#1	26.395	.70310	.00017	9.7550	.00216
#2	26.410	.70082	.00024	9.7541	.00275
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00047**	**16.112**	**.00002**	**-.00359**	**6.2186**
Stddev	.00078	.016	.00197	.00356	.0058
%RSD	164.31	.09730	9148.2	98.994	.09264
#1	.00102	16.101	.00141	-.00108	6.2226
#2	-.00008	16.123	-.00137	-.00610	6.2145
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00029**	**.18141**	**-.00040**	**.00061**	**.00003**
Stddev	.00129	.00001	.00031	.00119	.00080
%RSD	448.41	.00763	77.130	197.40	2895.3
#1	.00062	.18142	-.00062	.00145	-.00054
#2	-.00120	.18140	-.00018	-.00024	.00060
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121464-b-12-a Acquired: 7/25/2017 18:43:41 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.01047**
Stddev	.00000
%RSD	.00044
#1	.01047
#2	.01047
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3445.7**	**2359.9**	**16629.**	**3293.8**
Stddev	2.6	.1	19.	20.7
%RSD	.07566	.00450	.11537	.62808
#1	3447.6	2359.8	16642.	3279.2
#2	3443.9	2360.0	16615.	3308.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	91.890%	98.224%	96.072%	101.77%
Range				

Sample Name: 480-121464-b-13-a Acquired: 7/25/2017 18:47:05 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00046**	**.01002**	**.00285**	**.02625**	**.06774**
Stddev	.00089	.00567	.00008	.00036	.00007
%RSD	194.34	56.571	2.6687	1.3548	.11031
#1	.00017	.01404	.00290	.02600	.06769
#2	-.00109	.00601	.00279	.02650	.06779
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00003**	**180.70**	**.00013**	**.0075**	**-.00019**
Stddev	.00003	.57	.00008	.0051	.00021
%RSD	111.10	.31776	60.181	68.74	107.06
#1	-.00005	180.30	.00007	.0111	-.00034
#2	-.00001	181.11	.00019	.0038	-.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00003**	**-.00190**	**.00451**	**1.2705**	**-.00029**
Stddev	.00042	.00045	.00190	.0213	.00062
%RSD	1233.8	23.464	42.174	1.6765	211.85
#1	-.00033	-.00159	.00317	1.2855	.00015
#2	.00026	-.00222	.00586	1.2554	-.00073
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121464-b-13-a Acquired: 7/25/2017 18:47:05 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**43.687**	**.00074**	**-.00004**	**3.2322**	**.00076**
Stddev	.028	.00007	.00014	.0102	.00015
%RSD	.06434	8.8633	367.51	.31696	20.186
#1	43.706	.00079	-.00014	3.2249	.00065
#2	43.667	.00070	.00006	3.2394	.00087
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00017**	**17.134**	**-.00105**	**-.00520**	**8.7185**
Stddev	.00011	.022	.00057	.00023	.0722
%RSD	64.831	.12826	54.117	4.3985	.82835
#1	.00009	17.119	-.00145	-.00536	8.6674
#2	.00025	17.150	-.00065	-.00504	8.7695
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00069**	**.19380**	**.00025**	**.00170**	**-.00012**
Stddev	.00068	.00168	.00030	.00080	.00027
%RSD	98.173	.86746	118.13	46.998	220.08
#1	-.00117	.19261	.00004	.00113	-.00031
#2	-.00021	.19498	.00047	.00226	.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121464-b-13-a Acquired: 7/25/2017 18:47:05 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00241
Stddev	.00002
%RSD	.95357
#1	.00242
#2	.00239
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3363.5	2330.6	16440.	3282.0
Stddev	.3	1.1	60.	2.6
%RSD	.00807	.04866	.36656	.07820
#1	3363.7	2329.8	16482.	3280.2
#2	3363.3	2331.4	16397.	3283.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.696%	97.004%	94.981%	101.41%
Range				

Sample Name: lcsd 480-368485/25-a Acquired: 7/25/2017 18:50:30 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05095**	**9.8450**	**.20535**	**.20370**	**.19826**
Stddev	.00118	.0283	.00137	.00030	.00110
%RSD	2.3195	.28776	.66732	.14857	.55670
#1	.05178	9.8651	.20632	.20348	.19904
#2	.05011	9.8250	.20438	.20391	.19748
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19670**	**9.8718**	**.20437**	**-.0171**	**.19166**
Stddev	.00005	.0213	.00047	.0206	.00047
%RSD	.02470	.21579	.23010	120.4	.24360
#1	.19674	9.8869	.20404	-.0317	.19133
#2	.19667	9.8568	.20470	-.0025	.19199
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21729**	**.19611**	**9.9173**	**9.4980**	**.19899**
Stddev	.00055	.00057	.0012	.0010	.00051
%RSD	.25119	.29058	.01231	.01050	.25485
#1	.21767	.19571	9.9181	9.4987	.19863
#2	.21690	.19652	9.9164	9.4973	.19935
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: lcsd 480-368485/25-a Acquired: 7/25/2017 18:50:30 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.355**	**.20658**	**.20424**	**9.6650**	**.19440**
Stddev	.033	.00047	.00014	.0021	.00008
%RSD	.31953	.22887	.07036	.02188	.04359
#1	10.378	.20692	.20414	9.6635	.19434
#2	10.331	.20625	.20434	9.6665	.19446
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20646**	**9.8456**	**.20471**	**.20465**	**9.0821**
Stddev	.00165	.0404	.00031	.00109	.0124
%RSD	.79750	.41020	.15226	.53492	.13695
#1	.20529	9.8170	.20449	.20542	9.0733
#2	.20762	9.8742	.20493	.20387	9.0909
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19827**	**.20055**	**.20661**	**.20988**	**.21416**
Stddev	.00000	.00001	.00143	.00033	.00188
%RSD	.00182	.00411	.69409	.15817	.87687
#1	.19826	.20056	.20763	.20965	.21549
#2	.19827	.20054	.20560	.21012	.21283
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: lcsd 480-368485/25-a Acquired: 7/25/2017 18:50:30 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.21722
Stddev	.00187
%RSD	.86204
#1	.21855
#2	.21590
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3643.3	2449.8	17238.	3355.6
Stddev	.0	1.2	31.	6.1
%RSD	.00031	.04773	.17996	.18275
#1	3643.3	2450.6	17216.	3359.9
#2	3643.3	2449.0	17260.	3351.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	97.159%	101.97%	99.595%	103.68%
Range				

Sample Name: BLANK Acquired: 7/25/2017 18:53:46 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00067**	**.02230**	**-.00029**	**.00213**	**.00029**
Stddev	.00045	.00066	.00223	.00022	.00001
%RSD	66.597	2.9710	757.34	10.249	4.8191
#1	.00036	.02277	-.00187	.00198	.00028
#2	.00099	.02183	.00128	.00229	.00030
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00003**	**.03611**	**.00057**	**-.0181**	**-.00047**
Stddev	.00012	.00288	.00014	.0170	.00001
%RSD	342.89	7.9797	24.128	93.78	1.8900
#1	-.00012	.03407	.00067	-.0061	-.00047
#2	.00005	.03814	.00047	-.0302	-.00046
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00283**	**-.00028**	**.01418**	**.00299**	**-.00011**
Stddev	.00019	.00029	.00071	.01037	.00081
%RSD	6.7721	102.23	5.0336	346.48	714.23
#1	.00297	-.00008	.01368	-.00434	-.00069
#2	.00270	-.00049	.01469	.01033	.00046
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: BLANK Acquired: 7/25/2017 18:53:46 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00072**	**.00119**	**.00076**	**.05247**	**.00006**
Stddev	.00252	.00006	.00000	.00456	.00005
%RSD	351.46	5.4092	.33189	8.6853	84.891
#1	.00250	.00114	.00076	.05569	.00009
#2	-.00107	.00123	.00076	.04925	.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00030**	**.00417**	**.00199**	**-.00195**	**.04365**
Stddev	.00026	.00230	.00094	.00025	.01136
%RSD	88.607	55.331	47.163	12.947	26.028
#1	-.00049	.00254	.00132	-.00213	.03562
#2	-.00011	.00580	.00265	-.00177	.05169
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00752**	**.00026**	**.00073**	**-.00326**	**.00008**
Stddev	.00031	.00000	.00075	.00067	.00069
%RSD	4.0990	1.1861	102.33	20.551	883.12
#1	.00730	.00027	.00126	-.00374	-.00041
#2	.00773	.00026	.00020	-.00279	.00056
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: BLANK Acquired: 7/25/2017 18:53:46 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00338
Stddev	.00014
%RSD	4.2039
#1	.00348
#2	.00328
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3534.2	2148.7	16232.	3215.1
Stddev	3.0	5.0	9.	17.9
%RSD	.08596	.23160	.05645	.55804
#1	3532.0	2145.2	16226.	3202.4
#2	3536.3	2152.2	16239.	3227.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	94.248%	89.435%	93.781%	99.341%
Range				

Sample Name: CCV-4147885 Acquired: 7/25/2017 18:57:15 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.52167**	**25.004**	**.51495**	**.49341**	**.48019**
Stddev	.00129	.059	.00202	.00100	.00084
%RSD	.24728	.23437	.39257	.20334	.17551
#1	.52258	25.045	.51352	.49270	.47960
#2	.52076	24.963	.51638	.49412	.48079
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49029**	**24.876**	**.49549**	**.0103**	**.49422**
Stddev	.00196	.065	.00119	.0357	.00073
%RSD	.39984	.25979	.24004	345.1	.14797
#1	.49167	24.921	.49633	-.0149	.49474
#2	.48890	24.830	.49465	.0356	.49370
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.54347**	**.47701**	**23.676**	**24.135**	**.49351**
Stddev	.00031	.00361	.009	.064	.00041
%RSD	.05795	.75615	.03802	.26413	.08273
#1	.54325	.47446	23.670	24.090	.49322
#2	.54370	.47956	23.682	24.180	.49380
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4147885 Acquired: 7/25/2017 18:57:15 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.276**	**.51139**	**.51105**	**24.585**	**.49776**
Stddev	.076	.00083	.00045	.012	.00050
%RSD	.30266	.16214	.08876	.04910	.10062
#1	25.222	.51080	.51073	24.593	.49811
#2	25.330	.51198	.51137	24.576	.49741
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50232**	**24.553**	**.48993**	**.50803**	**24.137**
Stddev	.00248	.007	.00395	.00442	.050
%RSD	.49345	.02755	.80644	.87059	.20635
#1	.50408	24.548	.49273	.51115	24.173
#2	.50057	24.557	.48714	.50490	24.102
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50592**	**.49774**	**.51805**	**.51332**	**.52472**
Stddev	.00069	.00092	.00046	.00049	.00327
%RSD	.13691	.18508	.08951	.09611	.62290
#1	.50543	.49839	.51837	.51297	.52703
#2	.50641	.49709	.51772	.51367	.52240
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4147885 Acquired: 7/25/2017 18:57:15 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.53315
Stddev	.00047
%RSD	.08723
#1	.53348
#2	.53282
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3484.1	2431.5	16903.	3244.0
Stddev	4.5	4.4	17.	25.3
%RSD	.12992	.18193	.10291	.77975
#1	3487.3	2434.6	16891.	3261.8
#2	3480.9	2428.3	16915.	3226.1

Sample Name: CCB-4130963 Acquired: 7/25/2017 19:00:28 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00084**	**.00453**	**.00019**	**-.00051**	**.00005**
Stddev	.00117	.00042	.00028	.00007	.00003
%RSD	139.60	9.3275	145.25	13.186	58.107
#1	-.00001	.00423	-.00001	-.00055	.00008
#2	-.00167	.00483	.00039	-.00046	.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**.00458**	**-.00000**	**-.0067**	**-.00009**
Stddev	.00002	.00404	.00016	.0152	.00010
%RSD	158.13	88.269	4062.3	226.6	115.30
#1	.00002	.00744	-.00012	-.0175	-.00002
#2	-.00000	.00172	.00011	.0040	-.00016
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00024**	**-.00073**	**.00235**	**.00097**	**-.00007**
Stddev	.00051	.00085	.00041	.07517	.00005
%RSD	217.58	116.43	17.351	7740.3	73.705
#1	.00060	-.00013	.00207	-.05218	-.00010
#2	-.00013	-.00132	.00264	.05412	-.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4130963 Acquired: 7/25/2017 19:00:28 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00220**	**.00011**	**.00008**	**.00746**	**.00044**
Stddev	.00433	.00003	.00001	.00114	.00039
%RSD	196.83	26.127	17.302	15.241	90.269
#1	-.00527	.00013	.00009	.00827	.00071
#2	.00086	.00009	.00007	.00666	.00016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00187**	**-.00004**	**-.00169**	**-.00039**	**.02220**
Stddev	.00088	.00203	.00071	.00185	.00268
%RSD	46.759	5479.8	42.228	473.22	12.064
#1	-.00125	.00140	-.00119	.00092	.02410
#2	-.00249	-.00147	-.00220	-.00170	.02031
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00066**	**.00007**	**-.00015**	**.00090**	**.00007**
Stddev	.00012	.00007	.00045	.00023	.00014
%RSD	18.733	102.56	296.32	25.722	198.36
#1	-.00057	.00012	.00017	.00074	.00017
#2	-.00075	.00002	-.00047	.00107	-.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4130963 Acquired: 7/25/2017 19:00:28 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.00100
Stddev	.00013
%RSD	12.983
#1	.00109
#2	.00091
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3784.1	2436.3	17205.	3252.8
Stddev	.3	4.8	46.	9.1
%RSD	.00905	.19684	.26535	.27889
#1	3783.9	2433.0	17237.	3246.4
#2	3784.4	2439.7	17173.	3259.2

Sample Name: CCVL-4147888 Acquired: 7/25/2017 19:03:56 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00584**	**.19630**	**.01561**	**.01890**	**.00202**
Stddev	.00099	.00339	.00209	.00010	.00000
%RSD	16.916	1.7285	13.398	.54828	.13991
#1	.00514	.19870	.01709	.01897	.00202
#2	.00654	.19390	.01413	.01883	.00202
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00208**	**.49789**	**.00200**	**.0117**	**.00381**
Stddev	.00008	.00463	.00011	.0188	.00017
%RSD	3.6318	.92969	5.7003	160.8	4.3978
#1	.00203	.49461	.00192	.0250	.00369
#2	.00214	.50116	.00208	-.0016	.00393
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00431**	**.01002**	**.05051**	**.51430**	**.03006**
Stddev	.00032	.00120	.00109	.01264	.00081
%RSD	7.3411	12.016	2.1531	2.4580	2.6783
#1	.00453	.00917	.05128	.50537	.02949
#2	.00409	.01088	.04974	.52324	.03063
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4147888 Acquired: 7/25/2017 19:03:56 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19868**	**.00305**	**.01052**	**.98693**	**.01018**
Stddev	.00888	.00005	.00022	.02035	.00023
%RSD	4.4686	1.8042	2.0800	2.0615	2.2546
#1	.19240	.00301	.01036	.97254	.01034
#2	.20495	.00309	.01067	1.0013	.01002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00910**	**.19091**	**.01975**	**.02365**	**.50527**
Stddev	.00043	.00101	.00072	.00325	.00489
%RSD	4.7606	.52762	3.6422	13.764	.96872
#1	.00941	.19020	.01924	.02135	.50873
#2	.00879	.19162	.02025	.02595	.50181
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00898**	**.00492**	**.00467**	**.02012**	**.00548**
Stddev	.00062	.00010	.00059	.00064	.00023
%RSD	6.9165	2.0353	12.723	3.1843	4.1242
#1	.00942	.00499	.00425	.01966	.00564
#2	.00854	.00485	.00509	.02057	.00532
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4147888 Acquired: 7/25/2017 19:03:56 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.01196
Stddev	.00021
%RSD	1.7685
#1	.01181
#2	.01210
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3805.4	2461.6	17320.	3285.6
Stddev	1.1	1.7	58.	8.9
%RSD	.02815	.06963	.33635	.27014
#1	3806.2	2462.8	17279.	3291.9
#2	3804.7	2460.4	17361.	3279.4

Sample Name: mb 480-368490/1-a Acquired: 7/25/2017 19:07:24 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00038**	**.03508**	**-.00129**	**.00189**	**.00005**
Stddev	.00045	.01690	.00001	.00008	.00003
%RSD	119.68	48.169	.77983	4.1241	58.486
#1	-.00070	.04703	-.00128	.00183	.00003
#2	-.00006	.02313	-.00130	.00194	.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**.03646**	**-.00008**	**-.0132**	**.00014**
Stddev	.00003	.00378	.00031	.0061	.00004
%RSD	120.68	10.355	383.20	45.89	27.973
#1	.00005	.03379	-.00030	-.0089	.00017
#2	.00000	.03913	.00014	-.0175	.00012
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00038**	**-.00005**	**.00090**	**.02338**	**-.00053**
Stddev	.00006	.00086	.00279	.04967	.00138
%RSD	16.549	1857.9	308.64	212.40	259.94
#1	.00042	-.00065	.00288	-.01174	.00045
#2	.00033	.00056	-.00107	.05851	-.00151
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: mb 480-368490/1-a Acquired: 7/25/2017 19:07:24 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00232**	**.00040**	**.00015**	**.00754**	**.00065**
Stddev	.00078	.00001	.00026	.01459	.00003
%RSD	33.354	3.6652	174.31	193.44	4.3079
#1	.00287	.00039	-.00004	-.00277	.00063
#2	.00178	.00041	.00034	.01786	.00067
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00083**	**-.00143**	**-.00112**	**-.00117**	**.00178**
Stddev	.00162	.00015	.00013	.00018	.00357
%RSD	196.50	10.372	11.197	15.542	201.14
#1	.00032	-.00154	-.00120	-.00130	.00430
#2	-.00197	-.00133	-.00103	-.00104	-.00075
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00058**	**.00027**	**.00029**	**.00108**	**-.00017**
Stddev	.00027	.00004	.00009	.00168	.00041
%RSD	45.622	12.942	31.188	154.90	232.43
#1	-.00077	.00025	.00023	.00227	.00011
#2	-.00039	.00030	.00035	-.00010	-.00046
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: mb 480-368490/1-a Acquired: 7/25/2017 19:07:24 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00136
Stddev	.00005
%RSD	3.6582
#1	.00140
#2	.00133
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3866.2	2484.6	17561.	3343.4
Stddev	5.5	2.2	105.	7.0
%RSD	.14315	.09003	.59864	.20895
#1	3870.1	2486.2	17486.	3338.4
#2	3862.3	2483.0	17635.	3348.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	103.10%	103.42%	101.46%	103.31%
Range				

Sample Name: lcs 480-368490/2-a Acquired: 7/25/2017 19:10:52 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05119**	**9.7997**	**.20449**	**.19938**	**.19437**
Stddev	.00116	.0094	.00165	.00087	.00009
%RSD	2.2688	.09593	.80763	.43756	.04498
#1	.05037	9.7931	.20566	.19877	.19431
#2	.05201	9.8064	.20332	.20000	.19443
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19393**	**9.7842**	**.20080**	**-.0003**	**.18868**
Stddev	.00036	.0669	.00020	.0099	.00001
%RSD	.18679	.68376	.09826	3121.	.00308
#1	.19418	9.8315	.20066	.0067	.18868
#2	.19367	9.7369	.20094	-.0073	.18868
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21516**	**.19077**	**9.8531**	**9.4764**	**.19886**
Stddev	.00128	.00093	.0261	.0223	.00322
%RSD	.59634	.48609	.26523	.23489	1.6185
#1	.21426	.19143	9.8716	9.4921	.20114
#2	.21607	.19012	9.8346	9.4606	.19659
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: lcs 480-368490/2-a Acquired: 7/25/2017 19:10:52 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.198**	**.20388**	**.19975**	**9.5193**	**.19059**
Stddev	.001	.00028	.00002	.0190	.00076
%RSD	.01067	.13786	.00877	.19932	.39677
#1	10.199	.20408	.19976	9.5328	.19113
#2	10.197	.20368	.19973	9.5059	.19006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20201**	**9.6549**	**.20277**	**.20584**	**9.8807**
Stddev	.00087	.0084	.00024	.00182	.0301
%RSD	.43313	.08757	.11979	.88446	.30502
#1	.20139	9.6608	.20294	.20455	9.9020
#2	.20263	9.6489	.20260	.20712	9.8594
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19447**	**.19744**	**.20306**	**.20684**	**.21095**
Stddev	.00061	.00089	.00043	.00094	.00078
%RSD	.31603	.45141	.20966	.45566	.37186
#1	.19403	.19807	.20276	.20617	.21040
#2	.19490	.19681	.20336	.20750	.21151
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: lcs 480-368490/2-a Acquired: 7/25/2017 19:10:52 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.21567
Stddev	.00128
%RSD	.59286
#1	.21476
#2	.21657
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3659.6	2458.7	17283.	3348.6
Stddev	4.0	3.4	82.	14.9
%RSD	.10961	.13808	.47384	.44384
#1	3656.8	2456.3	17341.	3338.1
#2	3662.5	2461.1	17225.	3359.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	97.594%	102.34%	99.855%	103.47%
Range				

Sample Name: 480-120292-h-6-d Acquired: 7/25/2017 19:14:08 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00135**	**.08377**	**.00155**	**.55646**	**.00521**
Stddev	.00017	.00408	.00035	.00179	.00001
%RSD	12.240	4.8695	22.353	.32176	.24863
#1	-.00123	.08665	.00130	.55772	.00520
#2	-.00147	.08088	.00179	.55519	.00522
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00007**	**530.71**	**.00025**	**.0036**	**-.00017**
Stddev	.00004	7.21	.00002	.0152	.00022
%RSD	58.968	1.3583	8.6299	423.5	134.33
#1	-.00009	535.81	.00027	.0144	-.00032
#2	-.00004	525.61	.00024	-.0072	-.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00038**	**-.00373**	**.45074**	**8.6116**	**.03354**
Stddev	.00096	.00097	.00529	.0791	.00127
%RSD	254.19	25.934	1.1746	.91847	3.8000
#1	-.00030	-.00304	.45449	8.6676	.03264
#2	.00106	-.00441	.44700	8.5557	.03444
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-120292-h-6-d Acquired: 7/25/2017 19:14:08 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**51.599**	**.02046**	**.00145**	**69.505**	**.00201**
Stddev	.124	.00005	.00027	.690	.00021
%RSD	.24023	.23904	18.802	.99325	10.304
#1	51.686	.02050	.00164	69.993	.00216
#2	51.511	.02043	.00126	69.016	.00186
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00142**	F **461.20**	**.00067**	**-.00438**	**4.2392**
Stddev	.00072	.85	.00148	.00369	.0550
%RSD	50.769	.18458	219.47	84.255	1.2977
#1	-.00091	461.80	-.00037	-.00699	4.2781
#2	-.00192	460.60	.00172	-.00177	4.2003
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		90.000			
Low Limit		-.20000			

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00026**	F **14.472**	**.00226**	**.00142**	**-.00014**
Stddev	.00002	.181	.00054	.00048	.00011
%RSD	8.6863	1.2497	24.007	34.269	75.673
#1	-.00027	14.600	.00265	.00107	-.00021
#2	-.00024	14.344	.00188	.00176	-.00006
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		9.0000			
Low Limit		-.00500			

Sample Name: 480-120292-h-6-d Acquired: 7/25/2017 19:14:08 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.01067**
Stddev	.00075
%RSD	6.9889
#1	.01014
#2	.01120
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3047.4**	**2207.6**	**15706.**	**3229.2**
Stddev	.7	2.2	38.	25.4
%RSD	.02228	.09902	.24473	.78722
#1	3047.9	2209.2	15733.	3211.2
#2	3046.9	2206.1	15678.	3247.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	81.267%	91.887%	90.740%	99.779%
Range				

Sample Name: 480-120292-h-6-dSD@5 Acquired: 7/25/2017 19:17:44 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00108**	**.01116**	**.00090**	**.10632**	**.00111**
Stddev	.00014	.01102	.00099	.00089	.00002
%RSD	13.116	98.789	109.82	.83445	1.8658
#1	-.00118	.01895	.00020	.10695	.00113
#2	-.00098	.00336	.00160	.10570	.00110
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	**106.51**	**-.00002**	**.0173**	**.00010**
Stddev	.00002	.07	.00004	.0099	.00009
%RSD	109.45	.06499	155.60	57.39	86.762
#1	.00000	106.46	-.00005	.0103	.00016
#2	.00004	106.56	.00000	.0243	.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00016**	**-.00137**	**.09344**	**1.7066**	**.00797**
Stddev	.00036	.00102	.00438	.0232	.00059
%RSD	226.99	74.896	4.6883	1.3617	7.4359
#1	.00010	-.00064	.09034	1.7230	.00755
#2	-.00042	-.00209	.09654	1.6902	.00839
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-120292-h-6-dSD@5 Acquired: 7/25/2017 19:17:44 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.219**	**.00401**	**.00018**	**13.984**	**.00075**
Stddev	.013	.00011	.00003	.023	.00027
%RSD	.12448	2.8630	15.219	.16127	36.868
#1	10.210	.00409	.00020	13.968	.00055
#2	10.228	.00393	.00016	14.000	.00094
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00014**	**85.053**	**-.00198**	**-.00111**	**.82674**
Stddev	.00006	.682	.00007	.00314	.00054
%RSD	43.598	.80226	3.3173	282.92	.06525
#1	-.00010	85.536	-.00193	.00111	.82712
#2	-.00018	84.571	-.00203	-.00334	.82636
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00036**	**2.8980**	**.00019**	**.00137**	**-.00047**
Stddev	.00051	.0025	.00045	.00038	.00013
%RSD	141.70	.08635	237.62	27.684	26.936
#1	.00000	2.8998	-.00013	.00110	-.00038
#2	-.00072	2.8963	.00050	.00164	-.00056
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-120292-h-6-dSD@5 Acquired: 7/25/2017 19:17:44 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00222
Stddev	.00039
%RSD	17.577
#1	.00250
#2	.00195
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3454.5	2349.6	16578.	3272.9
Stddev	.5	.8	28.	17.4
%RSD	.01410	.03597	.16757	.53067
#1	3454.9	2349.0	16597.	3285.2
#2	3454.2	2350.2	16558.	3260.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.124%	97.794%	95.777%	101.13%
Range				

Sample Name: 480-120292-h-6-d PDS Acquired: 7/25/2017 19:21:10 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05440**	**10.122**	**.22308**	**.75048**	**.19762**
Stddev	.00056	.069	.00054	.00117	.00098
%RSD	1.0372	.68092	.24302	.15629	.49826
#1	.05480	10.073	.22346	.74965	.19692
#2	.05400	10.171	.22269	.75131	.19831
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19468**	**523.78**	**.21365**	**-.0007**	**.19967**
Stddev	.00083	5.64	.00020	.0327	.00065
%RSD	.42431	1.0761	.09527	4570.	.32377
#1	.19410	519.80	.21379	.0224	.20013
#2	.19527	527.77	.21350	-.0238	.19921
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21514**	**.19296**	**10.114**	**18.110**	**.23714**
Stddev	.00062	.00206	.055	.020	.00002
%RSD	.29009	1.0694	.54207	.10879	.00793
#1	.21470	.19150	10.075	18.096	.23713
#2	.21558	.19442	10.152	18.124	.23716
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-120292-h-6-d PDS Acquired: 7/25/2017 19:21:10 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**60.470**	**.22004**	**.20630**	**77.511**	**.20198**
Stddev	.218	.00034	.00037	.176	.00013
%RSD	.36056	.15316	.17711	.22666	.06244
#1	60.316	.21981	.20604	77.387	.20189
#2	60.625	.22028	.20656	77.635	.20207
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20986**	F **461.23**	**.21558**	**.22325**	**14.095**
Stddev	.00165	.26	.00214	.00072	.104
%RSD	.78393	.05540	.99160	.32314	.74134
#1	.21102	461.41	.21407	.22274	14.021
#2	.20870	461.05	.21709	.22376	14.168
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		90.000			
Low Limit		-.20000			

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20992**	F **14.275**	**.20971**	**.20621**	**.21672**
Stddev	.00059	.099	.00178	.00036	.00060
%RSD	.28283	.69142	.84930	.17545	.27761
#1	.21034	14.206	.20845	.20596	.21714
#2	.20950	14.345	.21097	.20647	.21629
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		9.0000			
Low Limit		-.00500			

Sample Name: 480-120292-h-6-d PDS Acquired: 7/25/2017 19:21:10 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.21849**
Stddev	.00040
%RSD	.18294
#1	.21877
#2	.21820
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3017.1**	**2213.4**	**15730.**	**3257.1**
Stddev	3.4	2.6	28.	3.9
%RSD	.11156	.11627	.17919	.12053
#1	3019.5	2215.2	15750.	3259.9
#2	3014.7	2211.6	15710.	3254.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	80.458%	92.127%	90.881%	100.64%
Range				

Sample Name: 480-120292-h-6-e ms Acquired: 7/25/2017 19:24:38 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.05413	10.187	.22229	.77649	.19666
Stddev	.00053	.021	.00111	.00254	.00039
%RSD	.98326	.20820	.49741	.32697	.19714
#1	.05450	10.172	.22150	.77470	.19638
#2	.05375	10.202	.22307	.77829	.19693
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.19444	553.88	.21256	.0140	.19849
Stddev	.00053	2.37	.00019	.0141	.00012
%RSD	.27251	.42723	.08782	101.0	.06126
#1	.19481	555.56	.21243	.0239	.19858
#2	.19407	552.21	.21269	.0040	.19841
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.21218	.19568	10.006	19.570	.23852
Stddev	.00284	.00092	.025	.002	.00096
%RSD	1.3387	.47099	.25220	.01128	.40351
#1	.21419	.19503	9.9878	19.568	.23784
#2	.21017	.19633	10.023	19.572	.23920
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-120292-h-6-e ms Acquired: 7/25/2017 19:24:38 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**62.466**	**.21746**	**.20576**	**80.036**	**.20052**
Stddev	.035	.00002	.00028	.085	.00023
%RSD	.05583	.01067	.13620	.10570	.11632
#1	62.491	.21748	.20556	79.976	.20035
#2	62.442	.21745	.20596	80.096	.20068
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20967**	F **485.94**	**.21342**	**.22099**	**14.461**
Stddev	.00139	.62	.00050	.00395	.024
%RSD	.66152	.12752	.23336	1.7888	.16912
#1	.20869	485.50	.21377	.21819	14.479
#2	.21065	486.37	.21307	.22378	14.444
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		90.000			
Low Limit		-.20000			

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20892**	F **15.189**	**.20835**	**.20249**	**.21486**
Stddev	.00091	.267	.00097	.00077	.00038
%RSD	.43779	1.7610	.46415	.38111	.17643
#1	.20957	15.378	.20904	.20194	.21513
#2	.20827	15.000	.20767	.20303	.21459
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		9.0000			
Low Limit		-.00500			

Sample Name: 480-120292-h-6-e ms Acquired: 7/25/2017 19:24:38 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.21237
Stddev	.00018
%RSD	.08629
#1	.21250
#2	.21224
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2991.9	2195.2	15653.	3215.3
Stddev	2.4	.2	27.	19.8
%RSD	.08080	.00950	.17255	.61664
#1	2990.2	2195.4	15634.	3201.2
#2	2993.6	2195.1	15672.	3229.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	79.786%	91.370%	90.437%	99.347%
Range				

Sample Name: 480-120292-h-6-f msd Acquired: 7/25/2017 19:28:06 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05283**	**9.9983**	**.22291**	**.74147**	**.19261**
Stddev	.00060	.0156	.00123	.00105	.00053
%RSD	1.1337	.15551	.55340	.14204	.27718
#1	.05325	9.9874	.22378	.74072	.19223
#2	.05241	10.009	.22203	.74221	.19298
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19014**	**522.80**	**.20764**	**.0101**	**.19400**
Stddev	.00008	1.60	.00024	.0081	.00041
%RSD	.04315	.30522	.11319	80.31	.21191
#1	.19009	523.93	.20748	.0158	.19429
#2	.19020	521.67	.20781	.0044	.19371
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21122**	**.18473**	**9.8774**	**17.717**	**.23026**
Stddev	.00138	.00053	.0179	.014	.00208
%RSD	.65151	.28761	.18166	.07725	.90521
#1	.21025	.18511	9.8900	17.727	.22878
#2	.21220	.18436	9.8647	17.707	.23173
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-120292-h-6-f msd Acquired: 7/25/2017 19:28:06 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**59.817**	**.21552**	**.20117**	**75.796**	**.19618**
Stddev	.321	.00079	.00070	.304	.00053
%RSD	.53715	.36674	.34998	.40098	.26792
#1	59.590	.21496	.20167	76.011	.19655
#2	60.044	.21608	.20068	75.581	.19581
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20752**	F **456.33**	**.20872**	**.21553**	**14.175**
Stddev	.00147	.01	.00144	.00390	.034
%RSD	.70998	.00210	.69194	1.8089	.24297
#1	.20856	456.34	.20770	.21829	14.151
#2	.20648	456.32	.20975	.21278	14.200
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		90.000			
Low Limit		-.20000			

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20496**	F **14.205**	**.20840**	**.20236**	**.21185**
Stddev	.00080	.270	.00058	.00288	.00064
%RSD	.39204	1.8972	.27840	1.4232	.30153
#1	.20440	14.395	.20799	.20439	.21230
#2	.20553	14.014	.20881	.20032	.21140
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		9.0000			
Low Limit		-.00500			

Sample Name: 480-120292-h-6-f msd Acquired: 7/25/2017 19:28:06 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.21084**
Stddev	.00119
%RSD	.56522
#1	.20999
#2	.21168
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3005.2**	**2201.7**	**15663.**	**3226.9**
Stddev	1.1	2.4	93.	8.9
%RSD	.03794	.10822	.59125	.27609
#1	3006.1	2203.4	15729.	3220.6
#2	3004.4	2200.0	15598.	3233.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	80.143%	91.639%	90.494%	99.707%
Range				

Sample Name: 480-121507-c-1-a Acquired: 7/25/2017 19:31:35 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00025**	**.02437**	**.00415**	**.00654**	**.00764**
Stddev	.00061	.03303	.00236	.00002	.00000
%RSD	245.28	135.54	56.967	.26902	.06312
#1	-.00068	.04772	.00248	.00655	.00764
#2	.00018	.00101	.00582	.00653	.00764
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00007**	**43.074**	**-.00010**	**-.0064**	**-.00011**
Stddev	.00002	.079	.00017	.0450	.00005
%RSD	22.008	.18225	175.99	702.7	46.724
#1	.00009	43.130	.00002	-.0382	-.00015
#2	.00006	43.019	-.00022	.0254	-.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00021**	**.00003**	**.00535**	**3.7305**	**.00410**
Stddev	.00023	.00051	.00163	.0480	.00065
%RSD	109.41	1600.5	30.485	1.2871	15.933
#1	-.00005	-.00033	.00420	3.6965	.00364
#2	-.00038	.00039	.00650	3.7644	.00456
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121507-c-1-a Acquired: 7/25/2017 19:31:35 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**7.4818**	**.00204**	**.00010**	**128.72**	**.00068**
Stddev	.0028	.00003	.00005	.17	.00013
%RSD	.03793	1.3620	52.374	.13235	19.356
#1	7.4798	.00202	.00014	128.60	.00078
#2	7.4838	.00206	.00007	128.85	.00059
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00035**	**12.720**	**-.00131**	**-.00156**	**6.0697**
Stddev	.00021	.010	.00140	.00173	.0298
%RSD	58.996	.07490	106.95	111.12	.49135
#1	.00021	12.713	-.00229	-.00033	6.0908
#2	.00050	12.727	-.00032	-.00278	6.0487
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00019**	**.29440**	**.00034**	**.00049**	**-.00024**
Stddev	.00004	.00022	.00023	.00036	.00055
%RSD	20.340	.07421	68.731	74.481	229.39
#1	-.00021	.29425	.00050	.00074	-.00063
#2	-.00016	.29456	.00017	.00023	.00015
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121507-c-1-a Acquired: 7/25/2017 19:31:35 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00227
Stddev	.00025
%RSD	10.954
#1	.00210
#2	.00245
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3365.8	2355.3	16499.	3337.4
Stddev	5.0	.2	10.	3.1
%RSD	.14775	.00652	.05799	.09252
#1	3362.3	2355.4	16506.	3335.2
#2	3369.4	2355.2	16492.	3339.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.759%	98.034%	95.325%	103.12%
Range				

Sample Name: 480-121415-b-1-a Acquired: 7/25/2017 19:35:00 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00051**	**.17115**	**.00369**	**.07123**	**.01583**
Stddev	.00089	.01373	.00344	.00086	.00002
%RSD	176.32	8.0210	93.252	1.2015	.12792
#1	.00114	.18086	.00612	.07063	.01584
#2	-.00013	.16144	.00126	.07184	.01581
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**49.062**	**-.00013**	**.0112**	**.00005**
Stddev	.00001	.207	.00010	.0049	.00016
%RSD	78.728	.42199	75.797	43.75	291.13
#1	.00001	49.208	-.00006	.0077	.00017
#2	.00002	48.916	-.00020	.0146	-.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00034**	**.00327**	**.01398**	**1.8948**	**.00332**
Stddev	.00006	.00103	.00205	.0455	.00095
%RSD	18.778	31.616	14.681	2.4027	28.540
#1	.00038	.00254	.01543	1.9270	.00399
#2	.00029	.00400	.01253	1.8626	.00265
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121415-b-1-a Acquired: 7/25/2017 19:35:00 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**21.157**	**.00329**	**.00021**	**34.253**	**.00103**
Stddev	.011	.00002	.00001	.148	.00019
%RSD	.05387	.75082	5.4542	.43165	18.796
#1	21.165	.00327	.00022	34.357	.00117
#2	21.149	.00330	.00020	34.148	.00089
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00018**	**14.324**	**-.00190**	**-.00301**	**2.9005**
Stddev	.00137	.002	.00043	.00234	.0243
%RSD	757.58	.01144	22.651	77.732	.83756
#1	-.00079	14.326	-.00220	-.00136	2.9177
#2	.00115	14.323	-.00159	-.00467	2.8833
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00063**	**.07046**	**.00018**	**.00038**	**.00143**
Stddev	.00034	.00032	.00051	.00095	.00044
%RSD	53.611	.45663	278.89	252.11	30.616
#1	-.00039	.07069	.00055	.00105	.00112
#2	-.00086	.07023	-.00018	-.00029	.00174
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121415-b-1-a Acquired: 7/25/2017 19:35:00 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.00703**
Stddev	.00039
%RSD	5.5141
#1	.00675
#2	.00730
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3531.8**	**2405.6**	**16985.**	**3384.9**
Stddev	1.4	.2	8.	21.4
%RSD	.03994	.01012	.04551	.63276
#1	3532.8	2405.7	16991.	3369.8
#2	3530.8	2405.4	16980.	3400.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	94.184%	100.13%	98.133%	104.59%
Range				

Sample Name: CCV-4147885 Acquired: 7/25/2017 19:38:26 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.52993**	**24.849**	**.51405**	**.49654**	**.47914**
Stddev	.00467	.035	.00266	.00070	.00175
%RSD	.88218	.14070	.51679	.14112	.36560
#1	.52662	24.824	.51217	.49703	.47791
#2	.53323	24.874	.51593	.49604	.48038
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.48328**	**24.492**	**.49585**	**.0165**	**.49247**
Stddev	.00050	.018	.00066	.0014	.00077
%RSD	.10380	.07294	.13321	8.515	.15717
#1	.48293	24.479	.49632	.0155	.49302
#2	.48364	24.504	.49539	.0174	.49193
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.54595**	**.47605**	**23.331**	**23.635**	**.49137**
Stddev	.00140	.00452	.076	.084	.00239
%RSD	.25553	.94985	.32430	.35564	.48671
#1	.54497	.47285	23.277	23.576	.48968
#2	.54694	.47924	23.384	23.694	.49306
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4147885 Acquired: 7/25/2017 19:38:26 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.991**	**.50726**	**.51344**	**24.136**	**.49569**
Stddev	.109	.00247	.00060	.043	.00092
%RSD	.43552	.48771	.11754	.17647	.18657
#1	24.914	.50551	.51302	24.106	.49634
#2	25.068	.50901	.51387	24.166	.49503
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50309**	**24.733**	**.49286**	**.51078**	**23.831**
Stddev	.00000	.013	.00385	.00044	.055
%RSD	.00014	.05379	.78029	.08686	.22983
#1	.50309	24.742	.49558	.51110	23.792
#2	.50309	24.723	.49014	.51047	23.869
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50465**	**.49567**	**.52139**	**.51708**	**.52849**
Stddev	.00042	.00007	.00196	.00127	.00312
%RSD	.08261	.01438	.37628	.24638	.58956
#1	.50435	.49572	.52000	.51618	.52628
#2	.50494	.49562	.52278	.51798	.53069
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4147885 Acquired: 7/25/2017 19:38:26 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.53147
Stddev	.00227
%RSD	.42801
#1	.52987
#2	.53308
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3443.7	2399.6	16600.	3281.5
Stddev	4.7	5.0	83.	15.3
%RSD	.13662	.20974	.50156	.46753
#1	3440.4	2396.0	16659.	3270.7
#2	3447.0	2403.2	16541.	3292.4

Sample Name: CCB-4130963 Acquired: 7/25/2017 19:41:38 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00000**	**.01191**	**.00038**	**.00098**	**.00006**
Stddev	.00003	.02196	.00115	.00032	.00001
%RSD	730.97	184.34	307.54	32.373	9.0587
#1	.00003	.02744	.00119	.00120	.00006
#2	-.00002	-.00361	-.00044	.00075	.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**.02290**	**-.00012**	**-.0076**	**.00013**
Stddev	.00001	.00156	.00021	.0020	.00002
%RSD	52.405	6.8334	180.65	27.01	14.195
#1	.00001	.02179	-.00027	-.0061	.00011
#2	.00001	.02400	.00003	-.0090	.00014
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00019**	**.00003**	**.00279**	**.02740**	**.00193**
Stddev	.00018	.00076	.00173	.01456	.00031
%RSD	93.451	2420.4	62.008	53.148	16.078
#1	.00006	-.00051	.00157	.01710	.00215
#2	.00031	.00057	.00401	.03770	.00171
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4130963 Acquired: 7/25/2017 19:41:38 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00084**	**.00006**	**.00022**	**.00612**	**.00052**
Stddev	.00632	.00004	.00011	.00066	.00005
%RSD	757.23	69.317	51.819	10.788	9.6043
#1	-.00364	.00003	.00014	.00659	.00048
#2	.00531	.00008	.00030	.00566	.00055
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00140**	**.03478**	**.00078**	**-.00004**	**.02776**
Stddev	.00021	.00072	.00143	.00277	.00997
%RSD	15.079	2.0802	182.86	6391.1	35.911
#1	-.00155	.03530	-.00023	-.00200	.02071
#2	-.00125	.03427	.00179	.00192	.03480
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00065**	**.00053**	**.00028**	**.00049**	**-.00013**
Stddev	.00002	.00005	.00022	.00120	.00040
%RSD	3.3472	9.9917	77.343	245.69	295.80
#1	-.00063	.00049	.00044	-.00036	.00015
#2	-.00066	.00057	.00013	.00134	-.00042
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4130963 Acquired: 7/25/2017 19:41:38 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.00144
Stddev	.00031
%RSD	21.369
#1	.00166
#2	.00122
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3763.1	2425.2	17089.	3271.0
Stddev	4.2	2.4	2.	20.0
%RSD	.11220	.09850	.01115	.61290
#1	3760.1	2423.5	17091.	3256.8
#2	3766.0	2426.9	17088.	3285.2

Sample Name: CCVL-4147888 Acquired: 7/25/2017 19:45:07 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00665**	**.23565**	**.01507**	**.01965**	**.00199**
Stddev	.00057	.03079	.00306	.00015	.00001
%RSD	8.6147	13.065	20.285	.76090	.60676
#1	.00706	.25742	.01723	.01976	.00199
#2	.00625	.21388	.01291	.01954	.00200
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00210**	**.51149**	**.00194**	**-.0145**	**.00396**
Stddev	.00003	.00058	.00001	.0288	.00003
%RSD	1.4297	.11290	.52645	198.1	.68723
#1	.00212	.51190	.00193	-.0349	.00394
#2	.00208	.51108	.00195	.0058	.00398
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00413**	**.00965**	**.04868**	**.52579**	**.03187**
Stddev	.00068	.00063	.00234	.01883	.00042
%RSD	16.468	6.4849	4.8058	3.5803	1.3257
#1	.00461	.00921	.05034	.53910	.03157
#2	.00365	.01010	.04703	.51248	.03217
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4147888 Acquired: 7/25/2017 19:45:07 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20159**	**.00315**	**.01050**	**.97561**	**.00981**
Stddev	.00356	.00006	.00005	.01789	.00007
%RSD	1.7668	1.8614	.45352	1.8337	.66524
#1	.20411	.00311	.01047	.98826	.00986
#2	.19907	.00319	.01053	.96297	.00976
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00897**	**.22045**	**.01935**	**.02273**	**.51357**
Stddev	.00058	.00283	.00055	.00200	.00179
%RSD	6.5120	1.2842	2.8194	8.7838	.34898
#1	.00856	.22245	.01896	.02415	.51230
#2	.00938	.21845	.01974	.02132	.51484
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00882**	**.00538**	**.00516**	**.02108**	**.00527**
Stddev	.00033	.00017	.00029	.00037	.00026
%RSD	3.7783	3.1057	5.6840	1.7376	4.8395
#1	.00906	.00550	.00537	.02134	.00545
#2	.00859	.00527	.00495	.02083	.00509
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4147888 Acquired: 7/25/2017 19:45:07 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.01126
Stddev	.00026
%RSD	2.3212
#1	.01144
#2	.01107
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3793.7	2456.9	17216.	3326.9
Stddev	.5	1.6	31.	22.7
%RSD	.01288	.06350	.18134	.68115
#1	3793.4	2458.0	17194.	3310.9
#2	3794.1	2455.8	17238.	3342.9

Sample Name: 480-121415-b-2-a Acquired: 7/25/2017 19:48:36 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00027**	**.15684**	**.00152**	**.07203**	**.02030**
Stddev	.00038	.00739	.00018	.00027	.00009
%RSD	141.90	4.7119	11.958	.37649	.42427
#1	.00000	.15162	.00165	.07184	.02024
#2	-.00053	.16207	.00139	.07222	.02037
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00003**	**55.810**	**.00018**	**-.0052**	**-.00000**
Stddev	.00005	.237	.00006	.0170	.00010
%RSD	187.45	.42396	34.903	328.0	26810.
#1	.00001	55.643	.00013	-.0172	-.00007
#2	-.00006	55.977	.00022	.0068	.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00012**	**.00291**	**.01831**	**2.2899**	**.00290**
Stddev	.00014	.00051	.00178	.0460	.00203
%RSD	122.72	17.628	9.7313	2.0088	70.095
#1	.00022	.00327	.01957	2.2573	.00433
#2	.00002	.00255	.01705	2.3224	.00146
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121415-b-2-a Acquired: 7/25/2017 19:48:36 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**23.376**	**.00583**	**.00026**	**55.518**	**.00073**
Stddev	.028	.00013	.00005	.027	.00027
%RSD	.12050	2.2589	17.779	.04877	36.721
#1	23.356	.00574	.00023	55.537	.00092
#2	23.395	.00593	.00029	55.499	.00054
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00068**	**10.676**	**-.00133**	**-.00088**	**3.0958**
Stddev	.00054	.007	.00120	.00272	.0176
%RSD	79.284	.06830	90.553	309.24	.56962
#1	-.00106	10.671	-.00048	.00104	3.0833
#2	-.00030	10.681	-.00218	-.00280	3.1082
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00119**	**.08224**	**.00093**	**-.00028**	**.00049**
Stddev	.00010	.00016	.00012	.00022	.00054
%RSD	8.2027	.19723	13.347	79.240	110.09
#1	-.00126	.08213	.00084	-.00044	.00011
#2	-.00112	.08236	.00101	-.00012	.00088
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121415-b-2-a Acquired: 7/25/2017 19:48:36 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00760
Stddev	.00076
%RSD	10.030
#1	.00706
#2	.00814
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3464.3	2383.3	16859.	3369.5
Stddev	6.7	2.8	36.	13.2
%RSD	.19281	.11699	.21572	.39192
#1	3469.0	2385.3	16885.	3378.8
#2	3459.6	2381.4	16834.	3360.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.384%	99.200%	97.406%	104.11%
Range				

Sample Name: 480-121415-b-3-a Acquired: 7/25/2017 19:52:01 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00006**	**.34848**	**.00170**	**.11309**	**.02022**
Stddev	.00054	.01282	.00045	.00012	.00014
%RSD	961.35	3.6801	26.714	.10394	.71102
#1	.00044	.33941	.00202	.11300	.02012
#2	-.00033	.35755	.00138	.11317	.02032
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00003**	**58.066**	**.00012**	**.0194**	**-.00015**
Stddev	.00000	.196	.00010	.0085	.00014
%RSD	2.4524	.33839	83.534	43.58	95.850
#1	-.00003	57.927	.00019	.0134	-.00025
#2	-.00003	58.205	.00005	.0254	-.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00028**	**.00441**	**.02572**	**2.2751**	**.00330**
Stddev	.00042	.00004	.00009	.0558	.00020
%RSD	150.84	.94963	.35189	2.4504	5.9499
#1	.00058	.00444	.02566	2.2356	.00316
#2	-.00002	.00438	.02579	2.3145	.00344
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121415-b-3-a Acquired: 7/25/2017 19:52:01 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.393**	**.00573**	**.00021**	**54.765**	**.00072**
Stddev	.044	.00005	.00006	.049	.00005
%RSD	.18044	.91043	31.395	.08873	7.0781
#1	24.362	.00577	.00025	54.800	.00076
#2	24.424	.00569	.00016	54.731	.00069
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00034**	**15.656**	**-.00019**	**-.00016**	**3.6060**
Stddev	.00017	.016	.00021	.00033	.0352
%RSD	48.428	.10401	109.69	207.18	.97682
#1	.00046	15.668	-.00004	.00007	3.5811
#2	.00023	15.645	-.00034	-.00039	3.6309
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00000**	**.08647**	**.00340**	**-.00063**	**.00013**
Stddev	.00020	.00014	.00031	.00091	.00009
%RSD	6676.0	.15673	9.1060	143.38	69.232
#1	.00014	.08638	.00362	-.00127	.00006
#2	-.00015	.08657	.00318	.00001	.00019
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121415-b-3-a Acquired: 7/25/2017 19:52:01 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.01219
Stddev	.00009
%RSD	.77718
#1	.01226
#2	.01213
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3462.8	2386.9	16760.	3366.5
Stddev	2.0	6.1	92.	15.4
%RSD	.05812	.25650	.55006	.45713
#1	3461.4	2382.6	16826.	3377.4
#2	3464.2	2391.2	16695.	3355.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.345%	99.349%	96.834%	104.02%
Range				

Sample Name: 480-121415-b-4-a Acquired: 7/25/2017 19:55:27 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00093**	**.23359**	**.00320**	**.09143**	**.01731**
Stddev	.00120	.01500	.00168	.00013	.00001
%RSD	128.76	6.4225	52.473	.13778	.08444
#1	-.00008	.22298	.00201	.09134	.01730
#2	-.00178	.24420	.00439	.09152	.01732
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**51.692**	**-.00001**	**-.0131**	**.00003**
Stddev	.00004	.126	.00008	.0047	.00013
%RSD	492.93	.24469	563.14	35.87	490.41
#1	.00004	51.782	-.00007	-.0097	.00011
#2	-.00002	51.603	.00004	-.0164	-.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00024**	**.00328**	**.01704**	**2.0385**	**.00289**
Stddev	.00025	.00064	.00158	.0477	.00021
%RSD	106.58	19.477	9.2608	2.3405	7.1425
#1	.00006	.00283	.01592	2.0048	.00304
#2	.00041	.00373	.01815	2.0722	.00274
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121415-b-4-a Acquired: 7/25/2017 19:55:27 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**21.944**	**.00510**	**.00016**	**49.301**	**.00076**
Stddev	.036	.00004	.00012	.154	.00019
%RSD	.16633	.72136	70.038	.31290	25.267
#1	21.970	.00507	.00008	49.410	.00063
#2	21.918	.00513	.00025	49.192	.00090
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00030**	**19.599**	**-.00092**	**-.00180**	**3.1266**
Stddev	.00167	.055	.00057	.00047	.0020
%RSD	557.46	.28258	62.142	26.150	.06359
#1	.00088	19.560	-.00132	-.00147	3.1252
#2	-.00148	19.638	-.00052	-.00213	3.1281
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00066**	**.07574**	**.00188**	**.00054**	**.00046**
Stddev	.00036	.00018	.00016	.00139	.00000
%RSD	54.993	.23881	8.7555	256.43	.59906
#1	-.00040	.07562	.00200	-.00044	.00046
#2	-.00092	.07587	.00177	.00153	.00046
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121415-b-4-a Acquired: 7/25/2017 19:55:27 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.01059**
Stddev	.00076
%RSD	7.1394
#1	.01006
#2	.01113
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3495.6**	**2401.7**	**16962.**	**3384.0**
Stddev	1.5	5.6	30.	16.8
%RSD	.04280	.23292	.17693	.49509
#1	3496.6	2405.6	16941.	3372.1
#2	3494.5	2397.7	16984.	3395.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	93.218%	99.964%	98.000%	104.56%
Range				

Sample Name: 480-121415-b-5-a Acquired: 7/25/2017 19:58:52 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00026	.13979	.00187	.08556	.01794
Stddev	.00063	.01028	.00006	.00037	.00006
%RSD	243.26	7.3505	3.0699	.43243	.35075
#1	.00070	.14706	.00191	.08529	.01799
#2	-.00019	.13252	.00183	.08582	.01790
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00005	56.953	-.00000	.0095	-.00007
Stddev	.00005	.376	.00005	.0187	.00014
%RSD	97.444	.65960	1247.8	196.3	199.84
#1	.00002	56.687	-.00004	-.0037	.00003
#2	.00009	57.218	.00003	.0228	-.00017
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00007	.00385	.01114	2.2062	.00266
Stddev	.00007	.00032	.00057	.0408	.00141
%RSD	96.040	8.2276	5.1413	1.8502	52.948
#1	.00002	.00363	.01154	2.1773	.00167
#2	.00012	.00408	.01073	2.2351	.00366
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121415-b-5-a Acquired: 7/25/2017 19:58:52 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.180**	**.00467**	**.00016**	**53.412**	**.00042**
Stddev	.134	.00006	.00004	.274	.00015
%RSD	.55537	1.3342	23.927	.51338	35.732
#1	24.275	.00471	.00013	53.218	.00052
#2	24.085	.00463	.00018	53.606	.00031
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00040**	**23.587**	**.00119**	**-.00145**	**3.3886**
Stddev	.00084	.036	.00011	.00293	.0136
%RSD	210.84	.15132	9.6005	201.44	.40163
#1	.00020	23.562	.00127	.00062	3.3790
#2	-.00099	23.613	.00111	-.00352	3.3982
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00058**	**.08109**	**.00084**	**.00110**	**.00016**
Stddev	.00045	.00033	.00026	.00084	.00042
%RSD	77.671	.40972	30.869	76.433	261.00
#1	-.00089	.08085	.00102	.00050	-.00014
#2	-.00026	.08132	.00066	.00169	.00046
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121415-b-5-a Acquired: 7/25/2017 19:58:52 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00822
Stddev	.00032
%RSD	3.8371
#1	.00799
#2	.00844
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3465.3	2384.9	16790.	3358.3
Stddev	3.1	5.3	10.	26.2
%RSD	.08880	.22288	.05759	.77917
#1	3467.5	2388.7	16783.	3376.8
#2	3463.2	2381.2	16797.	3339.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.412%	99.266%	97.004%	103.77%
Range				

Sample Name: 480-121482-e-1-a Acquired: 7/25/2017 20:02:17 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00219**	**.09723**	**.00784**	**3.3129**	**.00908**
Stddev	.00062	.01702	.00014	.0032	.00003
%RSD	28.249	17.502	1.7586	.09630	.38333
#1	.00175	.10926	.00793	3.3151	.00906
#2	.00263	.08520	.00774	3.3106	.00911
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00006**	**25.124**	**.00204**	**-.0077**	**.00115**
Stddev	.00002	.050	.00003	.0034	.00003
%RSD	31.612	.19833	1.2409	44.31	2.5415
#1	-.00008	25.088	.00205	-.0101	.00117
#2	-.00005	25.159	.00202	-.0053	.00113
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00390**	**.03715**	**.68418**	**3.3198**	**.00391**
Stddev	.00046	.00013	.00442	.0755	.00060
%RSD	11.800	.34165	.64586	2.2750	15.451
#1	.00422	.03724	.68730	3.2664	.00434
#2	.00357	.03706	.68105	3.3732	.00349
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121482-e-1-a Acquired: 7/25/2017 20:02:17 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.7263**	**.03363**	**.01099**	**112.53**	**.05477**
Stddev	.0701	.00018	.00022	.22	.00011
%RSD	.72042	.54482	2.0354	.19624	.20930
#1	9.6768	.03350	.01115	112.37	.05485
#2	9.7759	.03376	.01084	112.69	.05469
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00849**	**44.134**	**.00078**	**-.00010**	**31.110**
Stddev	.00042	.049	.00019	.00359	.119
%RSD	4.9733	.11181	24.816	3427.8	.38303
#1	.00879	44.169	.00064	-.00264	31.025
#2	.00820	44.099	.00091	.00243	31.194
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00382**	**.10673**	**.47412**	**.00136**	**.00000**
Stddev	.00054	.00051	.00059	.00005	.00049
%RSD	14.022	.47674	.12374	4.0103	32549.
#1	.00344	.10637	.47370	.00132	.00035
#2	.00420	.10709	.47453	.00140	-.00034
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121482-e-1-a Acquired: 7/25/2017 20:02:17 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.09170**
Stddev	.00053
%RSD	.57831
#1	.09133
#2	.09208
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3409.7**	**2391.8**	**16761.**	**3348.7**
Stddev	1.6	1.3	94.	15.9
%RSD	.04661	.05279	.56275	.47529
#1	3410.9	2390.9	16827.	3360.0
#2	3408.6	2392.7	16694.	3337.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	90.930%	99.553%	96.835%	103.47%
Range				

Sample Name: 480-121485-f-1-a Acquired: 7/25/2017 20:05:41 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00089**	**.50689**	**.00058**	**.02738**	**.01901**
Stddev	.00255	.02075	.00023	.00034	.00004
%RSD	286.01	4.0940	40.369	1.2436	.20944
#1	-.00270	.49222	.00074	.02762	.01904
#2	.00091	.52157	.00041	.02714	.01899
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**33.386**	**.00006**	**.0012**	**.00179**
Stddev	.00006	.193	.00005	.0234	.00009
%RSD	687.71	.57913	94.155	1956.	5.1871
#1	-.00003	33.249	.00009	-.0153	.00173
#2	.00005	33.522	.00002	.0177	.00186
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01298**	**.00657**	**.30057**	**1.5091**	**.00269**
Stddev	.00031	.00010	.00464	.0233	.00141
%RSD	2.3987	1.4676	1.5429	1.5411	52.251
#1	.01320	.00664	.29729	1.5255	.00368
#2	.01276	.00650	.30385	1.4926	.00170
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121485-f-1-a Acquired: 7/25/2017 20:05:41 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**8.5446**	**.00703**	**.00833**	**9.6584**	**.06078**
Stddev	.0037	.00000	.00008	.0568	.00007
%RSD	.04391	.06848	.95709	.58844	.12019
#1	8.5473	.00703	.00838	9.6182	.06073
#2	8.5420	.00703	.00827	9.6985	.06083
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00078**	**9.3946**	**.00032**	**-.00435**	**.21983**
Stddev	.00071	.0007	.00102	.00146	.01033
%RSD	91.689	.00708	319.96	33.452	4.6996
#1	-.00027	9.3951	.00104	-.00539	.21253
#2	-.00128	9.3941	-.00040	-.00332	.22714
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00155**	**.15729**	**.00145**	**.00144**	**.00061**
Stddev	.00049	.00093	.00006	.00020	.00013
%RSD	31.514	.59139	3.9674	13.921	21.824
#1	.00190	.15663	.00149	.00130	.00051
#2	.00121	.15794	.00141	.00158	.00070
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121485-f-1-a Acquired: 7/25/2017 20:05:41 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.01601
Stddev	.00088
%RSD	5.4892
#1	.01539
#2	.01663
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3646.1	2425.1	17056.	3327.0
Stddev	4.5	4.3	11.	13.3
%RSD	.12385	.17870	.06648	.40123
#1	3649.3	2428.2	17064.	3336.5
#2	3642.9	2422.1	17048.	3317.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	97.234%	100.94%	98.541%	102.80%
Range				

Sample Name: 480-121361-a-2-b Acquired: 7/25/2017 20:09:06 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00166**	**.81450**	**.01222**	**.15749**	**3.9481**
Stddev	.00081	.02151	.00502	.00030	.0003
%RSD	48.629	2.6407	41.071	.19284	.00734
#1	-.00109	.79929	.00867	.15728	3.9483
#2	-.00223	.82970	.01576	.15771	3.9479
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00041**	F **2398.4**	**-.00061**	**.0049**	**.00636**
Stddev	.00004	5.0	.00017	.0018	.00007
%RSD	10.747	.20666	28.569	36.59	1.1708
#1	-.00038	2394.9	-.00073	.0062	.00642
#2	-.00044	2401.9	-.00049	.0036	.00631
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		900.00			
Low Limit		-.50000			

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00047**	**.01620**	**.42171**	F **1492.3**	**.05604**
Stddev	.00046	.00084	.00135	3.7	.00029
%RSD	98.342	5.2137	.32023	.25101	.52231
#1	.00080	.01680	.42266	1495.0	.05583
#2	.00014	.01560	.42075	1489.7	.05625
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				540.00	
Low Limit				-.50000	

Sample Name: 480-121361-a-2-b Acquired: 7/25/2017 20:09:06 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.6342**	**4.0552**	**.06358**	**2519.5**	**.02628**
Stddev	.0193	.0092	.00019	.7	.00017
%RSD	.73381	.22820	.29359	.02762	.63391
#1	2.6479	4.0618	.06345	2519.0	.02616
#2	2.6205	4.0487	.06371	2520.0	.02639
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00554**	**72.547**	**.01895**	**-.00795**	**2.2912**
Stddev	.00152	.115	.00110	.00669	.0089
%RSD	27.531	.15876	5.8218	84.235	.38821
#1	-.00446	72.466	.01973	-.01268	2.2974
#2	-.00662	72.629	.01817	-.00321	2.2849
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00069**	F **21.210**	**-.00087**	**-.00271**	**.00047**
Stddev	.00113	.077	.00036	.00092	.00049
%RSD	164.32	.36142	41.224	34.119	102.38
#1	.00148	21.156	-.00062	-.00205	.00013
#2	-.00011	21.264	-.00112	-.00336	.00082
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		9.0000			
Low Limit		-.00500			

Sample Name: 480-121361-a-2-b Acquired: 7/25/2017 20:09:06 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00852
Stddev	.00093
%RSD	10.951
#1	.00786
#2	.00918
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2176.7	1831.7	12960.	2954.0
Stddev	.7	.4	9.	3.4
%RSD	.03278	.02287	.07217	.11472
#1	2176.2	1832.0	12953.	2956.4
#2	2177.2	1831.4	12966.	2951.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	58.048%	76.241%	74.875%	91.275%
Range				

Sample Name: 480-121361-a-2-c ms Acquired: 7/25/2017 20:12:58 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.06100**	**11.219**	**.25092**	**.35687**	**4.1401**
Stddev	.00088	.009	.00010	.00049	.0110
%RSD	1.4470	.08072	.03822	.13651	.26544
#1	.06037	11.213	.25085	.35722	4.1479
#2	.06162	11.226	.25099	.35653	4.1324
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.18498**	F **2388.8**	**.23552**	**.0121**	**.21782**
Stddev	.00020	13.7	.00037	.0025	.00040
%RSD	.10917	.57384	.15512	21.06	.18177
#1	.18512	2398.5	.23527	.0103	.21810
#2	.18484	2379.1	.23578	.0139	.21754
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		900.00			
Low Limit		-.50000			

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20406**	**.22058**	**9.6826**	F **1426.2**	**.26600**
Stddev	.00220	.00078	.0520	6.7	.00323
%RSD	1.0802	.35534	.53747	.47030	1.2156
#1	.20562	.22003	9.7194	1430.9	.26371
#2	.20250	.22114	9.6458	1421.4	.26828
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				540.00	
Low Limit				-.50000	

Sample Name: 480-121361-a-2-c ms Acquired: 7/25/2017 20:12:58 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**11.478**	**4.1862**	**.25511**	**2518.7**	**.23650**
Stddev	.028	.0210	.00089	7.7	.00070
%RSD	.23982	.50158	.34721	.30435	.29650
#1	11.497	4.2010	.25574	2524.1	.23700
#2	11.458	4.1713	.25448	2513.2	.23601
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21991**	**83.582**	**.24418**	**.22670**	**12.554**
Stddev	.00093	.047	.00068	.00378	.058
%RSD	.42325	.05635	.27701	1.6690	.46097
#1	.21925	83.615	.24466	.22938	12.595
#2	.22056	83.549	.24370	.22402	12.513
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.22577**	F **21.352**	**.20635**	**.19877**	**.21211**
Stddev	.00017	.112	.00186	.00087	.00152
%RSD	.07733	.52485	.90043	.43691	.71499
#1	.22565	21.432	.20766	.19938	.21319
#2	.22590	21.273	.20504	.19815	.21104
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		9.0000			
Low Limit		-.00500			

Sample Name: 480-121361-a-2-c ms Acquired: 7/25/2017 20:12:58 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.20936
Stddev	.00179
%RSD	.85359
#1	.21062
#2	.20809
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2166.6	1848.7	13080.	2983.3
Stddev	1.6	2.8	63.	21.8
%RSD	.07508	.15141	.48326	.73188
#1	2167.8	1850.6	13035.	2967.9
#2	2165.5	1846.7	13125.	2998.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	57.779%	76.946%	75.570%	92.181%
Range				

Sample Name: 480-121361-a-2-d msd Acquired: 7/25/2017 20:16:42 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.05980	11.060	.24507	.35354	4.1532
Stddev	.00064	.047	.00317	.00009	.0217
%RSD	1.0647	.42176	1.2920	.02639	.52372
#1	.05935	11.027	.24283	.35347	4.1378
#2	.06025	11.093	.24731	.35361	4.1686
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.18300	F 2394.5	.23235	.0235	.21522
Stddev	.00035	1.8	.00009	.0386	.00084
%RSD	.19387	.07476	.03947	164.1	.39240
#1	.18275	2393.2	.23241	.0508	.21462
#2	.18325	2395.8	.23228	-.0038	.21582
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		900.00			
Low Limit		-.50000			

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.20273	.22088	9.5836	F 1399.2	.26055
Stddev	.00147	.00064	.0620	2.5	.00042
%RSD	.72615	.28867	.64663	.18131	.16200
#1	.20377	.22133	9.5398	1397.4	.26085
#2	.20169	.22043	9.6274	1401.0	.26025
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				540.00	
Low Limit				-.50000	

Sample Name: 480-121361-a-2-d msd Acquired: 7/25/2017 20:16:42 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**11.429**	**4.1889**	**.25356**	**2524.5**	**.23421**
Stddev	.040	.0141	.00041	11.3	.00074
%RSD	.35013	.33758	.16278	.44813	.31729
#1	11.457	4.1989	.25327	2516.5	.23474
#2	11.401	4.1789	.25386	2532.5	.23368
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21384**	**83.623**	**.24554**	**.22723**	**12.492**
Stddev	.00327	.027	.00040	.00079	.026
%RSD	1.5290	.03261	.16322	.34630	.20756
#1	.21615	83.604	.24582	.22779	12.473
#2	.21153	83.642	.24525	.22668	12.510
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.22426**	F **21.308**	**.20512**	**.19268**	**.21076**
Stddev	.00222	.052	.00087	.00163	.00231
%RSD	.99023	.24563	.42458	.84703	1.0959
#1	.22269	21.271	.20574	.19153	.21240
#2	.22583	21.345	.20451	.19384	.20913
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		9.0000			
Low Limit		-.00500			

Sample Name: 480-121361-a-2-d msd Acquired: 7/25/2017 20:16:42 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.20912**
Stddev	.00040
%RSD	.18969
#1	.20940
#2	.20884
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2168.4**	**1848.8**	**13041.**	**2984.9**
Stddev	1.9	2.5	75.	5.4
%RSD	.08635	.13261	.57561	.18147
#1	2169.7	1850.6	12988.	2988.7
#2	2167.0	1847.1	13094.	2981.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	57.825%	76.953%	75.346%	92.228%
Range				

Sample Name: CCV-4147885 Acquired: 7/25/2017 20:20:29 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.52670**	**24.715**	**.51510**	**.49919**	**.47823**
Stddev	.00018	.038	.00140	.00080	.00076
%RSD	.03339	.15523	.27126	.16088	.15889
#1	.52658	24.687	.51411	.49976	.47877
#2	.52683	24.742	.51609	.49862	.47770
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.48313**	**24.746**	**.49689**	**-.0219**	**.49156**
Stddev	.00011	.003	.00024	.0086	.00006
%RSD	.02240	.01065	.04843	39.21	.01300
#1	.48305	24.744	.49706	-.0158	.49152
#2	.48320	24.748	.49672	-.0279	.49161
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.54228**	**.47474**	**23.212**	**24.713**	**.49188**
Stddev	.00166	.00083	.033	.022	.00002
%RSD	.30541	.17569	.14426	.08753	.00403
#1	.54345	.47533	23.188	24.728	.49189
#2	.54111	.47415	23.236	24.697	.49186
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4147885 Acquired: 7/25/2017 20:20:29 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.831**	**.50424**	**.51377**	**24.164**	**.49440**
Stddev	.159	.00251	.00005	.001	.00010
%RSD	.63853	.49689	.01067	.00576	.02042
#1	24.943	.50601	.51381	24.165	.49433
#2	24.718	.50247	.51373	24.163	.49447
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50158**	**24.769**	**.49529**	**.51036**	**23.771**
Stddev	.00063	.044	.00102	.00042	.048
%RSD	.12638	.17638	.20668	.08307	.20301
#1	.50203	24.800	.49457	.51066	23.737
#2	.50113	24.738	.49601	.51006	23.805
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50258**	**.49812**	**.51832**	**.51662**	**.52698**
Stddev	.00051	.00049	.00184	.00102	.00089
%RSD	.10246	.09840	.35542	.19802	.16830
#1	.50295	.49847	.51963	.51735	.52760
#2	.50222	.49778	.51702	.51590	.52635
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4147885 Acquired: 7/25/2017 20:20:29 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.52650
Stddev	.00186
%RSD	.35304
#1	.52781
#2	.52518
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3435.0	2387.8	16721.	3308.8
Stddev	3.7	3.3	49.	6.7
%RSD	.10757	.13813	.29281	.20156
#1	3432.4	2385.5	16686.	3313.5
#2	3437.6	2390.1	16755.	3304.1

Sample Name: CCB-4130963 Acquired: 7/25/2017 20:23:41 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00009**	**-.00679**	**.00038**	**.00100**	**.00033**
Stddev	.00028	.00232	.00065	.00008	.00002
%RSD	319.07	34.150	171.51	7.6629	5.4592
#1	-.00028	-.00515	.00084	.00094	.00032
#2	.00011	-.00842	-.00008	.00105	.00034
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**.19995**	**-.00016**	**.0018**	**.00018**
Stddev	.00004	.01152	.00012	.0174	.00006
%RSD	672.72	5.7591	74.823	995.1	33.340
#1	.00002	.20809	-.00025	-.0106	.00022
#2	-.00003	.19181	-.00008	.0141	.00014
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00015**	**-.00020**	**.00314**	F **.66169**	**.00259**
Stddev	.00021	.00043	.00106	.00699	.00097
%RSD	139.07	212.00	33.907	1.0564	37.225
#1	-.00030	.00010	.00389	.66663	.00191
#2	-.00000	-.00051	.00238	.65675	.00328
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				.50000	
Low Limit				-.50000	

Sample Name: CCB-4130963 Acquired: 7/25/2017 20:23:41 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00063**	**.00047**	**.00022**	**.42232**	**.00023**
Stddev	.00472	.00002	.00008	.02673	.00036
%RSD	745.65	4.0616	33.803	6.3293	152.51
#1	.00397	.00046	.00028	.44122	-.00002
#2	-.00271	.00048	.00017	.40341	.00049
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00076**	**.02905**	**-.00160**	**.00149**	**.02103**
Stddev	.00161	.00180	.00002	.00092	.01027
%RSD	211.00	6.1810	1.3586	61.339	48.836
#1	.00037	.03032	-.00161	.00214	.02829
#2	-.00190	.02778	-.00158	.00085	.01377
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00011**	**.00170**	**.00005**	**.00135**	**.00002**
Stddev	.00042	.00001	.00061	.00037	.00047
%RSD	381.81	.36247	1154.4	27.547	2369.5
#1	.00019	.00171	-.00038	.00161	-.00031
#2	-.00041	.00170	.00048	.00109	.00035
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4130963 Acquired: 7/25/2017 20:23:41 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.00140
Stddev	.00003
%RSD	1.9416
#1	.00138
#2	.00142
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3747.9	2411.1	17115.	3280.9
Stddev	5.2	1.5	88.	23.4
%RSD	.13773	.06034	.51679	.71464
#1	3744.2	2410.1	17053.	3264.4
#2	3751.5	2412.1	17178.	3297.5

Sample Name: CCVL-4147888 Acquired: 7/25/2017 20:27:11 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00532**	**.17935**	**.01719**	**.02040**	**.00222**
Stddev	.00069	.00002	.00072	.00043	.00003
%RSD	12.946	.01341	4.1798	2.1072	1.2949
#1	.00581	.17934	.01669	.02070	.00220
#2	.00483	.17937	.01770	.02009	.00224
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00206**	**.63018**	**.00197**	**-.0229**	**.00399**
Stddev	.00010	.00562	.00003	.0056	.00015
%RSD	4.8065	.89231	1.5001	24.25	3.6915
#1	.00213	.63415	.00195	-.0268	.00389
#2	.00199	.62620	.00199	-.0190	.00409
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00445**	**.00901**	**.05280**	F **.87615**	**.02833**
Stddev	.00011	.00030	.00005	.01581	.00095
%RSD	2.5519	3.3499	.08689	1.8050	3.3661
#1	.00437	.00880	.05277	.88733	.02900
#2	.00453	.00923	.05283	.86497	.02765
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.50000	
Range				50.000%	

Sample Name: CCVL-4147888 Acquired: 7/25/2017 20:27:11 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20227**	**.00330**	**.01042**	**1.2905**	**.00991**
Stddev	.00230	.00007	.00003	.0195	.00031
%RSD	1.1387	2.1950	.24096	1.5090	3.1674
#1	.20390	.00335	.01043	1.2767	.01013
#2	.20064	.00325	.01040	1.3043	.00969
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00925**	**.21244**	**.01948**	**.02316**	**.51291**
Stddev	.00093	.00360	.00055	.00127	.01578
%RSD	10.046	1.6939	2.8152	5.4626	3.0758
#1	.00991	.20990	.01909	.02227	.52407
#2	.00859	.21499	.01987	.02406	.50176
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00905**	**.00613**	**.00535**	**.02086**	**.00537**
Stddev	.00007	.00002	.00011	.00030	.00040
%RSD	.80872	.26031	2.0836	1.4270	7.4618
#1	.00910	.00611	.00527	.02065	.00565
#2	.00900	.00614	.00543	.02107	.00508
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4147888 Acquired: 7/25/2017 20:27:11 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.01102
Stddev	.00040
%RSD	3.6324
#1	.01130
#2	.01074
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3779.5	2440.9	17227.	3322.4
Stddev	2.9	.4	26.	3.8
%RSD	.07763	.01473	.14810	.11483
#1	3777.4	2441.2	17245.	3325.1
#2	3781.6	2440.7	17209.	3319.7

Sample Name: 480-121439-k-1-d Acquired: 7/25/2017 20:30:38 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00112**	**.03641**	**.00610**	**2.6925**	**.06589**
Stddev	.00096	.03889	.00135	.0068	.00023
%RSD	85.605	106.83	22.159	.25395	.34660
#1	-.00044	.00891	.00706	2.6973	.06605
#2	-.00179	.06391	.00515	2.6877	.06573
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**259.78**	**.00047**	**.0006**	**-.00069**
Stddev	.00002	.62	.00016	.0171	.00023
%RSD	134.89	.23894	33.037	2805.	33.910
#1	-.00002	259.34	.00036	-.0115	-.00052
#2	-.00000	260.22	.00059	.0127	-.00085
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00014**	**.09943**	**.06982**	**227.57**	**.11633**
Stddev	.00039	.00008	.00057	.49	.00097
%RSD	269.04	.08311	.82305	.21734	.83743
#1	.00013	.09937	.07022	227.22	.11564
#2	-.00042	.09948	.06941	227.92	.11702
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121439-k-1-d Acquired: 7/25/2017 20:30:38 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **741.99**	**.08646**	**.00125**	F **6158.1**	**.01153**
Stddev	5.71	.00050	.00004	20.8	.00036
%RSD	.76936	.58036	3.0457	.33752	3.0843
#1	746.02	.08681	.00122	6143.4	.01128
#2	737.95	.08611	.00127	6172.8	.01179
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	450.00			4500.0	
Low Limit	-.20000			-1.0000	

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.17235**	F **586.35**	**.00018**	**-.00709**	**3.2985**
Stddev	.00056	.45	.00020	.00687	.0174
%RSD	.32477	.07595	111.46	96.935	.52619
#1	.17275	586.66	.00033	-.00223	3.2863
#2	.17196	586.03	.00004	-.01194	3.3108
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		90.000			
Low Limit		-.20000			

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00073**	**4.6456**	**.00072**	**-.00395**	**-.00147**
Stddev	.00082	.0043	.00007	.00050	.00069
%RSD	111.73	.09158	9.3751	12.526	46.972
#1	-.00015	4.6426	.00067	-.00360	-.00098
#2	-.00131	4.6486	.00077	-.00430	-.00196
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121439-k-1-d Acquired: 7/25/2017 20:30:38 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	1.1521
Stddev	.0032
%RSD	.27454
#1	1.1543
#2	1.1499
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2168.3	1813.8	12555.	2949.7
Stddev	.0	4.7	30.	31.8
%RSD	.00072	.26126	.24075	1.0780
#1	2168.3	1810.5	12534.	2972.1
#2	2168.3	1817.2	12576.	2927.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	57.824%	75.495%	72.537%	91.141%
Range				

Sample Name: 480-121440-k-1-b Acquired: 7/25/2017 20:34:13 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00027**	**.04082**	**.00399**	**2.7337**	**.07470**
Stddev	.00139	.01862	.00104	.0055	.00021
%RSD	513.55	45.619	26.097	.20147	.27844
#1	.00071	.05399	.00473	2.7298	.07485
#2	-.00126	.02765	.00325	2.7375	.07456
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00002**	**263.75**	**.00072**	**.0108**	**-.00040**
Stddev	.00005	.04	.00006	.0368	.00010
%RSD	243.76	.01582	7.8764	341.6	25.142
#1	-.00006	263.78	.00068	.0368	-.00047
#2	.00001	263.72	.00076	-.0152	-.00033
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00028**	**.00090**	**.27663**	**231.62**	**.11903**
Stddev	.00012	.00142	.00213	.58	.00052
%RSD	44.839	157.77	.76827	.24905	.43388
#1	.00037	.00190	.27513	232.03	.11866
#2	.00019	-.00010	.27813	231.22	.11940
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121440-k-1-b Acquired: 7/25/2017 20:34:13 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **745.76**	**.09251**	**.00104**	F **6178.6**	**.00280**
Stddev	3.20	.00031	.00009	13.0	.00066
%RSD	.42954	.33969	9.0796	.21077	23.526
#1	748.02	.09273	.00097	6187.8	.00327
#2	743.49	.09228	.00111	6169.4	.00233
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	450.00			4500.0	
Low Limit	-.20000			-1.0000	

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00000**	F **594.06**	**-.00255**	**-.00362**	**3.4463**
Stddev	.00168	.98	.00015	.00345	.0001
%RSD	102630.	.16454	5.9546	95.317	.00269
#1	.00118	593.37	-.00266	-.00118	3.4463
#2	-.00119	594.75	-.00245	-.00607	3.4462
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		90.000			
Low Limit		-.20000			

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00054**	**4.6935**	**.00110**	**-.00165**	**-.00126**
Stddev	.00001	.0088	.00059	.00089	.00006
%RSD	2.7212	.18639	54.232	53.984	4.4456
#1	-.00055	4.6874	.00152	-.00228	-.00130
#2	-.00053	4.6997	.00068	-.00102	-.00122
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121440-k-1-b Acquired: 7/25/2017 20:34:13 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.03048**
Stddev	.00013
%RSD	.43494
#1	.03038
#2	.03057
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2164.4**	**1807.2**	**12551.**	**2948.4**
Stddev	.7	1.9	40.	9.1
%RSD	.03421	.10626	.31909	.30866
#1	2163.8	1808.6	12523.	2941.9
#2	2164.9	1805.9	12580.	2954.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	57.718%	75.221%	72.516%	91.101%
Range				

Sample Name: 480-121440-k-2-b Acquired: 7/25/2017 20:37:48 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00060**	**.04185**	**.00377**	**2.2834**	**.06121**
Stddev	.00063	.01647	.00001	.0005	.00034
%RSD	104.70	39.341	.21057	.02353	.54902
#1	-.00104	.05350	.00376	2.2838	.06098
#2	-.00016	.03021	.00378	2.2830	.06145
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00006**	**221.23**	**.00046**	**.0136**	**-.00078**
Stddev	.00009	.33	.00023	.0023	.00039
%RSD	159.35	.14917	48.880	17.03	49.642
#1	-.00012	221.47	.00030	.0120	-.00051
#2	.00001	221.00	.00063	.0153	-.00106
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00020**	**.00603**	**.08123**	**193.13**	**.09785**
Stddev	.00126	.00094	.00481	.25	.00129
%RSD	628.82	15.588	5.9255	.13183	1.3157
#1	.00069	.00670	.07783	192.95	.09694
#2	-.00109	.00537	.08464	193.31	.09876
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121440-k-2-b Acquired: 7/25/2017 20:37:48 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **633.76**	**.07601**	**.00079**	F **5140.7**	**.00150**
Stddev	5.78	.00020	.00012	8.0	.00017
%RSD	.91179	.26867	15.724	.15572	11.328
#1	629.67	.07586	.00088	5135.0	.00162
#2	637.84	.07615	.00070	5146.4	.00138
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	450.00			4500.0	
Low Limit	-.20000			-1.0000	

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00110**	F **499.33**	**-.00063**	**.00014**	**2.8312**
Stddev	.00061	.84	.00067	.00217	.0327
%RSD	54.876	.16858	105.95	1603.0	1.1555
#1	.00153	499.93	-.00111	-.00140	2.8544
#2	.00068	498.74	-.00016	.00167	2.8081
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		90.000			
Low Limit		-.20000			

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00062**	**3.9181**	**.00070**	**-.00162**	**-.00170**
Stddev	.00002	.0099	.00086	.00328	.00062
%RSD	3.4592	.25219	124.11	202.15	36.377
#1	-.00060	3.9111	.00009	.00070	-.00214
#2	-.00063	3.9250	.00131	-.00394	-.00126
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121440-k-2-b Acquired: 7/25/2017 20:37:48 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00918
Stddev	.00029
%RSD	3.1089
#1	.00897
#2	.00938
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2250.7	1863.0	12859.	3008.0
Stddev	.4	.3	68.	12.2
%RSD	.01932	.01454	.53101	.40398
#1	2251.0	1863.2	12907.	2999.4
#2	2250.4	1862.9	12811.	3016.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	60.022%	77.544%	74.295%	92.942%
Range				

Sample Name: 480-121440-k-3-b Acquired: 7/25/2017 20:41:23 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00221**	**.04079**	**.00489**	**2.6961**	**.06691**
Stddev	.00008	.00608	.00322	.0045	.00013
%RSD	3.4397	14.917	65.828	.16639	.19340
#1	-.00215	.03649	.00717	2.6929	.06700
#2	-.00226	.04509	.00261	2.6992	.06682
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00003**	**259.81**	**.00062**	**-.0029**	**-.00029**
Stddev	.00005	2.03	.00007	.0175	.00050
%RSD	187.86	.78047	11.801	611.4	175.33
#1	.00001	258.37	.00056	.0095	-.00064
#2	-.00006	261.24	.00067	-.0153	.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**-.00112**	**.03764**	**232.35**	**.11785**
Stddev	.00102	.00049	.00028	1.97	.00152
%RSD	6894.7	43.413	.74335	.84694	1.2871
#1	.00071	-.00146	.03783	230.95	.11892
#2	-.00074	-.00077	.03744	233.74	.11677
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121440-k-3-b Acquired: 7/25/2017 20:41:23 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **740.00**	**.08578**	**.00101**	F **6172.7**	**.00070**
Stddev	.77	.00040	.00002	63.9	.00055
%RSD	.10373	.46794	2.2421	1.0354	78.014
#1	739.45	.08606	.00099	6127.5	.00032
#2	740.54	.08550	.00103	6217.8	.00109
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	450.00			4500.0	
Low Limit	-.20000			-1.0000	

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00341**	F **588.85**	**-.00271**	**-.00883**	**3.3312**
Stddev	.00265	1.12	.00262	.00379	.0270
%RSD	77.666	.18976	96.840	42.966	.81123
#1	.00529	588.06	-.00085	-.01151	3.3121
#2	.00154	589.64	-.00457	-.00614	3.3503
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		90.000			
Low Limit		-.20000			

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00083**	**4.6423**	**.00064**	**-.00163**	**-.00153**
Stddev	.00050	.0355	.00012	.00158	.00007
%RSD	59.389	.76572	19.058	96.980	4.7466
#1	-.00048	4.6171	.00055	-.00275	-.00148
#2	-.00118	4.6674	.00072	-.00051	-.00158
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121440-k-3-b Acquired: 7/25/2017 20:41:23 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00935
Stddev	.00061
%RSD	6.5772
#1	.00891
#2	.00978
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2170.8	1813.9	12496.	2927.0
Stddev	2.3	4.1	33.	30.3
%RSD	.10683	.22852	.26208	1.0365
#1	2172.4	1816.8	12472.	2948.4
#2	2169.1	1810.9	12519.	2905.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	57.889%	75.497%	72.194%	90.440%
Range				

Sample Name: 480-121340-a-1-b Acquired: 7/25/2017 20:44:58 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00036**	**.03393**	**.00170**	**.01847**	**.04550**
Stddev	.00055	.00445	.00073	.00039	.00002
%RSD	151.85	13.110	42.927	2.1293	.04881
#1	-.00075	.03708	.00118	.01875	.04552
#2	.00003	.03079	.00222	.01820	.04549
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**29.044**	**-.00007**	**-.0106**	**-.00019**
Stddev	.00005	.091	.00000	.0010	.00020
%RSD	128.48	.31460	3.8518	9.200	105.54
#1	-.00000	29.109	-.00006	-.0113	-.00005
#2	-.00008	28.979	-.00007	-.0099	-.00033
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00022**	**.06898**	**.81759**	**3.7926**	**.00565**
Stddev	.00021	.00019	.00598	.0032	.00194
%RSD	94.899	.28123	.73177	.08321	34.410
#1	.00037	.06884	.82182	3.7903	.00428
#2	.00007	.06912	.81336	3.7948	.00703
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121340-a-1-b Acquired: 7/25/2017 20:44:58 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.7822**	**.00370**	**.00013**	**17.646**	**.00110**
Stddev	.0112	.00004	.00015	.079	.00010
%RSD	.11471	1.1196	111.63	.44812	9.4382
#1	9.7902	.00367	.00024	17.702	.00117
#2	9.7743	.00373	.00003	17.590	.00102
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.02427**	**3.9983**	**-.00130**	**-.00352**	**11.144**
Stddev	.00079	.0099	.00047	.00073	.078
%RSD	3.2620	.24799	36.083	20.759	.70066
#1	.02483	4.0053	-.00097	-.00404	11.199
#2	.02371	3.9913	-.00164	-.00300	11.089
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00233**	**.16151**	**.00018**	**.00084**	**.00032**
Stddev	.00008	.00033	.00061	.00010	.00024
%RSD	3.2232	.20632	346.71	11.731	76.819
#1	.00238	.16175	.00061	.00077	.00014
#2	.00228	.16128	-.00026	.00091	.00049
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121340-a-1-b Acquired: 7/25/2017 20:44:58 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.27377**
Stddev	.00130
%RSD	.47350
#1	.27286
#2	.27469
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3593.9**	**2406.0**	**16910.**	**3336.5**
Stddev	4.6	3.4	1.	8.3
%RSD	.12803	.13976	.00758	.25001
#1	3597.2	2408.4	16909.	3330.6
#2	3590.7	2403.6	16911.	3342.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	95.841%	100.14%	97.700%	103.09%
Range				

Sample Name: 480-121369-b-1-a Acquired: 7/25/2017 20:48:23 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00116**	**.01968**	**.01097**	**.61714**	**.16866**
Stddev	.00128	.00713	.00308	.00035	.00021
%RSD	110.79	36.248	28.060	.05741	.12199
#1	-.00025	.01463	.01314	.61689	.16880
#2	-.00207	.02472	.00879	.61739	.16851
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**152.49**	**-.00003**	**.0027**	**.00084**
Stddev	.00010	.59	.00012	.0047	.00002
%RSD	660.89	.38967	434.52	176.1	2.3007
#1	.00005	152.91	-.00011	.0060	.00085
#2	-.00008	152.07	.00006	-.0007	.00082
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00071**	**-.00182**	**16.208**	**12.798**	**.01650**
Stddev	.00054	.00007	.068	.030	.00174
%RSD	76.805	3.8553	.41892	.23764	10.544
#1	.00032	-.00187	16.256	12.820	.01527
#2	.00109	-.00177	16.160	12.777	.01773
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121369-b-1-a Acquired: 7/25/2017 20:48:23 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**45.795**	**.24650**	**-.00024**	**37.666**	**.00563**
Stddev	.179	.00069	.00024	.063	.00002
%RSD	.39054	.27866	101.64	.16761	.37337
#1	45.922	.24699	-.00007	37.710	.00561
#2	45.669	.24602	-.00041	37.621	.00564
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00106**	**.65471**	**-.00127**	**-.00401**	**9.6673**
Stddev	.00015	.00571	.00043	.00167	.0809
%RSD	14.206	.87175	34.188	41.645	.83639
#1	.00095	.65875	-.00096	-.00283	9.7245
#2	.00117	.65068	-.00157	-.00519	9.6101
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00017**	**.35995**	**.00006**	**.00162**	**-.00040**
Stddev	.00024	.00102	.00022	.00017	.00060
%RSD	142.69	.28367	365.10	10.222	149.10
#1	.00000	.36067	.00021	.00174	.00002
#2	-.00034	.35923	-.00009	.00150	-.00082
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121369-b-1-a Acquired: 7/25/2017 20:48:23 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00347
Stddev	.00067
%RSD	19.400
#1	.00300
#2	.00395
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3277.4	2314.0	16353.	3310.7
Stddev	3.2	.9	44.	6.3
%RSD	.09662	.03849	.27135	.19005
#1	3279.6	2314.7	16322.	3315.2
#2	3275.2	2313.4	16385.	3306.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	87.401%	96.315%	94.482%	102.30%
Range				

Sample Name: 480-121403-c-1-a Acquired: 7/25/2017 20:51:47 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00060**	**.05368**	**.00459**	**.10537**	**.07875**
Stddev	.00124	.01411	.00167	.00054	.00024
%RSD	205.12	26.290	36.337	.51580	.30923
#1	-.00148	.04370	.00341	.10498	.07857
#2	.00027	.06365	.00577	.10575	.07892
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00002**	**11.248**	**-.00007**	**.0149**	**.01182**
Stddev	.00004	.053	.00014	.0056	.00002
%RSD	198.17	.46839	191.19	37.69	.18856
#1	-.00005	11.211	-.00017	.0189	.01183
#2	.00001	11.285	.00003	.0109	.01180
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00737**	**.06918**	**.08814**	**2.6824**	**.00743**
Stddev	.00041	.00061	.00173	.0311	.00143
%RSD	5.4976	.88529	1.9589	1.1587	19.230
#1	.00708	.06875	.08692	2.7044	.00843
#2	.00765	.06962	.08936	2.6604	.00642
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121403-c-1-a Acquired: 7/25/2017 20:51:47 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.0419**	**.00403**	**.00030**	**40.140**	**.00391**
Stddev	.0041	.00002	.00010	.140	.00042
%RSD	.19907	.51383	34.569	.34890	10.813
#1	2.0390	.00402	.00023	40.041	.00361
#2	2.0448	.00404	.00038	40.239	.00421
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00126**	**29.151**	**-.00130**	**-.00150**	**1.1611**
Stddev	.00163	.008	.00090	.00192	.0154
%RSD	129.99	.02697	69.149	127.81	1.3216
#1	.00010	29.157	-.00067	-.00014	1.1503
#2	.00241	29.146	-.00194	-.00286	1.1720
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00053**	**.09029**	**.00108**	**.00098**	**.00045**
Stddev	.00038	.00013	.00032	.00019	.00037
%RSD	71.740	.14795	29.549	19.381	82.107
#1	.00026	.09020	.00131	.00085	.00072
#2	.00080	.09038	.00086	.00112	.00019
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121403-c-1-a Acquired: 7/25/2017 20:51:47 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.75473**
Stddev	.00502
%RSD	.66483
#1	.75119
#2	.75828
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3594.7**	**2405.0**	**16944.**	**3358.1**
Stddev	.1	1.6	112.	6.5
%RSD	.00267	.06673	.65837	.19422
#1	3594.8	2406.2	17023.	3362.7
#2	3594.6	2403.9	16865.	3353.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	95.862%	100.10%	97.895%	103.76%
Range				

Sample Name: BLANK Acquired: 7/25/2017 20:55:12 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00071**	**.00055**	**-.00039**	**.00236**	**.00004**
Stddev	.00029	.03783	.00143	.00017	.00000
%RSD	40.370	6930.3	362.16	7.3479	9.9575
#1	-.00092	-.02621	-.00141	.00248	.00005
#2	-.00051	.02730	.00062	.00224	.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**.02208**	**-.00006**	**-.0271**	**.00005**
Stddev	.00003	.00239	.00001	.0174	.00014
%RSD	363.07	10.808	23.802	64.26	284.23
#1	-.00001	.02376	-.00005	-.0148	-.00005
#2	.00003	.02039	-.00006	-.0394	.00014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00027**	**-.00014**	**.00307**	**.23158**	**.00186**
Stddev	.00054	.00040	.00127	.03455	.00092
%RSD	201.00	283.83	41.488	14.920	49.758
#1	-.00065	.00014	.00397	.25601	.00251
#2	.00011	-.00042	.00217	.20715	.00120
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: BLANK Acquired: 7/25/2017 20:55:12 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01141**	**.00004**	**-.00005**	**.45281**	**.00038**
Stddev	.00200	.00005	.00002	.01226	.00013
%RSD	17.492	128.38	34.006	2.7068	33.972
#1	.01282	.00000	-.00006	.46148	.00048
#2	.01000	.00008	-.00004	.44415	.00029
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00077**	**.04252**	**-.00104**	**-.00122**	**.02002**
Stddev	.00045	.00131	.00007	.00163	.00392
%RSD	57.763	3.0917	6.8151	133.33	19.558
#1	-.00109	.04345	-.00109	-.00007	.01725
#2	-.00046	.04159	-.00099	-.00237	.02279
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00005**	**.00023**	**-.00014**	**.00110**	**-.00020**
Stddev	.00073	.00003	.00018	.00074	.00036
%RSD	1573.1	13.132	129.05	67.366	178.67
#1	.00056	.00025	-.00001	.00057	.00005
#2	-.00047	.00020	-.00026	.00162	-.00045
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: BLANK Acquired: 7/25/2017 20:55:12 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00126
Stddev	.00003
%RSD	2.1528
#1	.00124
#2	.00128
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3737.0	2405.4	17038.	3229.9
Stddev	.0	2.7	28.	3.2
%RSD	.00004	.11330	.16412	.09762
#1	3737.0	2403.5	17058.	3232.1
#2	3737.0	2407.4	17019.	3227.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.656%	100.12%	98.440%	99.799%
Range				

Sample Name: mb 480-368491/1-a Acquired: 7/25/2017 20:58:39 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00057**	**.03956**	**.00072**	**.00461**	**.00012**
Stddev	.00004	.01470	.00027	.00001	.00003
%RSD	6.4775	37.170	36.724	.15919	24.736
#1	-.00060	.04996	.00054	.00460	.00010
#2	-.00055	.02916	.00091	.00461	.00014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**.05507**	**-.00014**	**.0157**	**.00009**
Stddev	.00005	.00154	.00004	.0214	.00011
%RSD	911.32	2.8038	30.003	136.1	127.72
#1	-.00004	.05616	-.00017	.0309	.00016
#2	.00003	.05398	-.00011	.0006	.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00027**	**-.00007**	**.00785**	**.27347**	**.00220**
Stddev	.00004	.00010	.00033	.01258	.00116
%RSD	13.341	137.65	4.2634	4.5993	52.595
#1	-.00029	-.00014	.00808	.28237	.00302
#2	-.00024	-.00000	.00761	.26458	.00138
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: mb 480-368491/1-a Acquired: 7/25/2017 20:58:39 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01206**	**.00005**	**-.00009**	**.39967**	**.00045**
Stddev	.00298	.00001	.00001	.01358	.00000
%RSD	24.729	26.507	15.043	3.3978	.98899
#1	.00995	.00005	-.00008	.39007	.00044
#2	.01417	.00004	-.00009	.40927	.00045
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00160**	**.03022**	**-.00158**	**-.00164**	**.00679**
Stddev	.00135	.00072	.00054	.00145	.00702
%RSD	84.057	2.3853	34.185	88.641	103.33
#1	-.00065	.03073	-.00120	-.00267	.00183
#2	-.00255	.02971	-.00196	-.00061	.01176
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00079**	**.00043**	**.00004**	**.00055**	**-.00003**
Stddev	.00009	.00005	.00003	.00026	.00006
%RSD	11.723	11.506	91.009	46.942	238.19
#1	-.00086	.00039	.00001	.00074	-.00007
#2	-.00073	.00046	.00006	.00037	.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: mb 480-368491/1-a Acquired: 7/25/2017 20:58:39 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00101
Stddev	.00029
%RSD	28.804
#1	.00122
#2	.00081
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3837.2	2459.3	17408.	3336.4
Stddev	7.3	7.9	109.	28.0
%RSD	.18961	.31957	.62851	.84023
#1	3842.3	2464.9	17486.	3356.2
#2	3832.0	2453.8	17331.	3316.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	102.33%	102.36%	100.58%	103.09%
Range				

Sample Name: CCV-4147885 Acquired: 7/25/2017 21:02:09 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.52878**	**24.678**	**.51384**	**.49824**	**.47877**
Stddev	.00138	.012	.00199	.00038	.00008
%RSD	.26100	.04665	.38724	.07680	.01664
#1	.52781	24.670	.51243	.49851	.47883
#2	.52976	24.686	.51525	.49796	.47871
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.48262**	**24.412**	**.49559**	**-.0120**	**.49206**
Stddev	.00058	.026	.00016	.0128	.00118
%RSD	.12007	.10612	.03181	106.1	.23976
#1	.48221	24.430	.49570	-.0211	.49289
#2	.48303	24.394	.49548	-.0030	.49122
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.54606**	**.47966**	**23.066**	**23.807**	**.49566**
Stddev	.00408	.00153	.045	.103	.00101
%RSD	.74637	.31987	.19470	.43404	.20350
#1	.54317	.47858	23.097	23.734	.49637
#2	.54894	.48075	23.034	23.880	.49495
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4147885 Acquired: 7/25/2017 21:02:09 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.005**	**.50826**	**.51226**	**24.186**	**.49536**
Stddev	.028	.00033	.00011	.000	.00020
%RSD	.11033	.06474	.02130	.00164	.04008
#1	24.985	.50803	.51234	24.187	.49522
#2	25.024	.50849	.51218	24.186	.49550
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50267**	**24.686**	**.49212**	**.50195**	**23.737**
Stddev	.00041	.025	.00056	.00179	.027
%RSD	.08238	.09966	.11405	.35685	.11502
#1	.50297	24.703	.49172	.50322	23.757
#2	.50238	24.668	.49252	.50069	23.718
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50506**	**.49646**	**.52119**	**.51707**	**.52881**
Stddev	.00017	.00079	.00228	.00059	.00318
%RSD	.03420	.15819	.43689	.11415	.60174
#1	.50518	.49701	.51958	.51665	.52656
#2	.50493	.49590	.52280	.51749	.53106
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4147885 Acquired: 7/25/2017 21:02:09 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	**.53082**
Stddev	.00209
%RSD	.39445
#1	.52934
#2	.53230
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3417.9**	**2380.9**	**16547.**	**3258.4**
Stddev	3.5	1.7	47.	6.5
%RSD	.10191	.06954	.28278	.19816
#1	3415.5	2379.7	16580.	3263.0
#2	3420.4	2382.0	16514.	3253.9

Sample Name: CCB-4130963 Acquired: 7/25/2017 21:05:21 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00027**	**.02514**	**.00106**	**.00160**	**.00005**
Stddev	.00041	.00766	.00037	.00015	.00004
%RSD	149.30	30.455	35.294	9.6408	87.266
#1	-.00056	.03056	.00132	.00149	.00008
#2	.00002	.01973	.00079	.00171	.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**.01057**	**-.00013**	**.0096**	**-.00001**
Stddev	.00005	.00156	.00016	.0253	.00009
%RSD	182.38	14.781	119.57	262.7	694.12
#1	.00007	.00947	-.00025	.0275	.00005
#2	-.00001	.01167	-.00002	-.0083	-.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00021**	**-.00007**	**.00301**	**.14925**	**.00168**
Stddev	.00012	.00074	.00136	.02511	.00049
%RSD	59.438	1005.9	45.050	16.826	29.437
#1	-.00030	.00045	.00397	.13149	.00133
#2	-.00012	-.00059	.00205	.16700	.00203
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4130963 Acquired: 7/25/2017 21:05:21 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00289**	**.00005**	**-.00003**	**.22256**	**.00032**
Stddev	.01111	.00006	.00020	.00152	.00039
%RSD	384.10	111.31	803.68	.68271	122.37
#1	.01075	.00001	-.00017	.22148	.00059
#2	-.00496	.00009	.00012	.22363	.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00090**	**.02189**	**.00048**	**-.00293**	**.01892**
Stddev	.00024	.00083	.00035	.00163	.00913
%RSD	27.040	3.8125	73.748	55.644	48.248
#1	-.00073	.02130	.00072	-.00178	.02537
#2	-.00107	.02248	.00023	-.00409	.01246
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00030**	**.00015**	**.00011**	**-.00030**	**-.00004**
Stddev	.00045	.00002	.00012	.00024	.00022
%RSD	151.80	16.506	114.86	80.229	625.21
#1	.00002	.00017	.00019	-.00047	.00012
#2	-.00061	.00013	.00002	-.00013	-.00019
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4130963 Acquired: 7/25/2017 21:05:21 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.00096
Stddev	.00038
%RSD	39.982
#1	.00069
#2	.00123
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3734.0	2403.9	17005.	3292.5
Stddev	2.4	1.6	32.	8.6
%RSD	.06516	.06840	.18782	.26260
#1	3735.7	2405.1	17028.	3286.3
#2	3732.3	2402.8	16983.	3298.6

Sample Name: CCVL-4147888 Acquired: 7/25/2017 21:08:49 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00610**	**.21107**	**.01551**	**.02049**	**.00203**
Stddev	.00004	.02918	.00165	.00054	.00001
%RSD	.66074	13.825	10.666	2.6520	.43222
#1	.00607	.19044	.01434	.02010	.00202
#2	.00612	.23170	.01668	.02087	.00203
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00197**	**.49449**	**.00197**	**.0258**	**.00381**
Stddev	.00006	.00231	.00001	.0249	.00014
%RSD	3.0123	.46639	.68269	96.37	3.5713
#1	.00201	.49612	.00198	.0435	.00371
#2	.00193	.49286	.00196	.0082	.00390
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00465**	**.00937**	**.05006**	W **.65674**	**.03198**
Stddev	.00041	.00041	.00279	.06600	.00031
%RSD	8.9324	4.4172	5.5793	10.050	.96066
#1	.00435	.00967	.05203	.61007	.03220
#2	.00494	.00908	.04808	.70341	.03176
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass
Value				.50000	
Range				30.000%	

Sample Name: CCVL-4147888 Acquired: 7/25/2017 21:08:49 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20141**	**.00314**	**.01042**	**1.1862**	**.01001**
Stddev	.00568	.00014	.00008	.0088	.00020
%RSD	2.8213	4.5149	.78049	.73817	2.0234
#1	.20543	.00324	.01047	1.1800	.00986
#2	.19739	.00304	.01036	1.1924	.01015
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00923**	**.20753**	**.01885**	**.02507**	**.49294**
Stddev	.00103	.00033	.00091	.00374	.00622
%RSD	11.198	.15870	4.8103	14.903	1.2626
#1	.00850	.20777	.01821	.02243	.49734
#2	.00997	.20730	.01950	.02772	.48854
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00863**	**.00497**	**.00524**	**.02057**	**.00538**
Stddev	.00060	.00002	.00054	.00058	.00009
%RSD	7.0008	.36320	10.322	2.8434	1.6049
#1	.00906	.00498	.00486	.02098	.00532
#2	.00820	.00496	.00562	.02015	.00544
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4147888 Acquired: 7/25/2017 21:08:49 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.01142
Stddev	.00009
%RSD	.76303
#1	.01148
#2	.01136
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3772.2	2436.3	17203.	3267.6
Stddev	13.6	12.8	13.	27.2
%RSD	.36040	.52384	.07431	.83127
#1	3781.8	2445.3	17194.	3286.8
#2	3762.6	2427.3	17212.	3248.4

Sample Name: lcs 480-368491/2-a Acquired: 7/25/2017 21:12:18 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04999**	**9.5867**	**.19966**	**.20077**	**.19348**
Stddev	.00222	.0026	.00048	.00068	.00069
%RSD	4.4343	.02700	.23836	.33865	.35551
#1	.04842	9.5886	.20000	.20125	.19299
#2	.05156	9.5849	.19933	.20029	.19396
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.18922**	**9.5940**	**.19853**	**-.0310**	**.18570**
Stddev	.00049	.0167	.00009	.0137	.00013
%RSD	.25966	.17403	.04546	44.14	.06775
#1	.18957	9.6058	.19860	-.0407	.18561
#2	.18887	9.5822	.19847	-.0213	.18579
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21294**	**.19184**	**9.4482**	**9.3070**	**.19673**
Stddev	.00011	.00137	.0644	.0951	.00155
%RSD	.05054	.71312	.68216	1.0220	.78950
#1	.21287	.19087	9.4938	9.3742	.19782
#2	.21302	.19280	9.4027	9.2397	.19563
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: lcs 480-368491/2-a Acquired: 7/25/2017 21:12:18 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.046**	**.19990**	**.19843**	**9.5217**	**.18704**
Stddev	.007	.00041	.00018	.0415	.00058
%RSD	.07013	.20447	.09240	.43618	.31208
#1	10.051	.19962	.19856	9.5511	.18662
#2	10.041	.20019	.19830	9.4923	.18745
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19975**	**9.5506**	**.20054**	**.20299**	**9.7260**
Stddev	.00084	.0048	.00072	.00164	.0316
%RSD	.41904	.05011	.35765	.80599	.32521
#1	.20035	9.5472	.20105	.20183	9.7484
#2	.19916	9.5540	.20003	.20415	9.7036
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19280**	**.19680**	**.20082**	**.20586**	**.20673**
Stddev	.00011	.00027	.00008	.00029	.00027
%RSD	.05841	.13759	.04216	.13852	.13262
#1	.19272	.19699	.20076	.20606	.20693
#2	.19288	.19661	.20088	.20566	.20654
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: lcs 480-368491/2-a Acquired: 7/25/2017 21:12:18 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.21305
Stddev	.00025
%RSD	.11800
#1	.21323
#2	.21288
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3644.2	2442.1	17180.	3339.2
Stddev	7.4	6.0	43.	31.8
%RSD	.20239	.24529	.25314	.95248
#1	3649.4	2446.3	17210.	3316.7
#2	3639.0	2437.9	17149.	3361.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	97.182%	101.65%	99.256%	103.18%
Range				

Sample Name: 480-121551-c-1-a Acquired: 7/25/2017 21:15:34 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00091**	**1.0383**	**.13794**	**.63662**	**3.9574**
Stddev	.00047	.0348	.00289	.00072	.0258
%RSD	51.900	3.3555	2.0936	.11384	.65116
#1	-.00125	1.0629	.13998	.63611	3.9756
#2	-.00058	1.0136	.13590	.63713	3.9392
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00008**	**166.21**	**.00018**	**-.0322**	**.02991**
Stddev	.00002	.97	.00004	.0073	.00003
%RSD	25.732	.58452	23.878	22.68	.09915
#1	.00006	166.90	.00021	-.0374	.02993
#2	.00009	165.52	.00015	-.0271	.02989
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00442**	**.00092**	**21.484**	**6.4716**	**.00745**
Stddev	.00045	.00090	.149	.0590	.00039
%RSD	10.175	97.224	.69401	.91229	5.2769
#1	.00474	.00156	21.589	6.5134	.00773
#2	.00410	.00029	21.378	6.4299	.00718
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121551-c-1-a Acquired: 7/25/2017 21:15:34 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**90.371**	**7.9867**	**.01283**	**218.62**	**.04787**
Stddev	.074	.0511	.00034	1.18	.00038
%RSD	.08202	.64037	2.6660	.53761	.79619
#1	90.423	8.0228	.01307	219.45	.04814
#2	90.318	7.9505	.01259	217.79	.04760
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01826**	**4.0902**	**.00024**	**-.00261**	**15.472**
Stddev	.00169	.0017	.00192	.00151	.101
%RSD	9.2299	.04213	795.66	57.795	.65265
#1	.01945	4.0914	.00160	-.00154	15.543
#2	.01707	4.0890	-.00112	-.00368	15.401
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00143**	**1.0116**	**.01697**	**.00062**	**.00133**
Stddev	.00033	.0058	.00088	.00022	.00023
%RSD	23.473	.57604	5.1827	34.978	17.034
#1	.00166	1.0158	.01759	.00078	.00117
#2	.00119	1.0075	.01635	.00047	.00149
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121551-c-1-a Acquired: 7/25/2017 21:15:34 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**2.6686**
Stddev	.0133
%RSD	.49800
#1	2.6780
#2	2.6592
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3083.1**	**2257.9**	**15970.**	**3246.9**
Stddev	.1	.7	30.	16.8
%RSD	.00431	.03313	.18776	.51612
#1	3083.2	2258.4	15949.	3235.0
#2	3083.0	2257.3	15992.	3258.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	82.220%	93.978%	92.270%	100.32%
Range				

Sample Name: 480-121551-c-1-aSD@5 Acquired: 7/25/2017 21:19:08 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00003**	**.21446**	**.02856**	**.12716**	**.77537**
Stddev	.00057	.01957	.00067	.00025	.00499
%RSD	2087.9	9.1250	2.3343	.19958	.64323
#1	.00038	.22830	.02903	.12734	.77889
#2	-.00043	.20062	.02809	.12698	.77184
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00006**	**33.078**	**-.00007**	**-.0136**	**.00577**
Stddev	.00008	.115	.00013	.0171	.00008
%RSD	132.86	.34687	177.26	125.8	1.3347
#1	.00011	33.159	.00002	-.0256	.00583
#2	.00000	32.997	-.00017	-.0015	.00572
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00129**	**-.00056**	**4.3571**	**1.3719**	**.00213**
Stddev	.00029	.00048	.0265	.0103	.00115
%RSD	22.579	85.944	.60762	.75401	54.190
#1	.00150	-.00089	4.3758	1.3793	.00294
#2	.00109	-.00022	4.3384	1.3646	.00131
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121551-c-1-aSD@5 Acquired: 7/25/2017 21:19:08 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**17.883**	**1.6513**	**.00250**	**44.192**	**.00966**
Stddev	.014	.0031	.00023	.147	.00013
%RSD	.07786	.18940	9.2941	.33278	1.3482
#1	17.893	1.6535	.00266	44.296	.00975
#2	17.873	1.6491	.00233	44.088	.00957
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00310**	**.77876**	**-.00042**	**-.00027**	**3.0673**
Stddev	.00026	.00037	.00106	.00052	.0114
%RSD	8.4318	.04712	252.98	193.10	.37087
#1	.00329	.77850	-.00117	.00010	3.0754
#2	.00292	.77902	.00033	-.00063	3.0593
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00014**	**.20052**	**.00292**	**.00084**	**-.00019**
Stddev	.00051	.00014	.00009	.00089	.00005
%RSD	350.59	.07083	2.9363	106.04	26.751
#1	-.00021	.20042	.00285	.00021	-.00015
#2	.00050	.20062	.00298	.00146	-.00022
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121551-c-1-aSD@5 Acquired: 7/25/2017 21:19:08 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.54949**
Stddev	.00061
%RSD	.11084
#1	.54906
#2	.54992
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3451.5**	**2353.5**	**16649.**	**3266.4**
Stddev	5.1	3.2	70.	19.8
%RSD	.14711	.13541	.42081	.60594
#1	3455.1	2355.8	16599.	3252.4
#2	3447.9	2351.3	16698.	3280.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.042%	97.960%	96.190%	100.93%
Range				

Sample Name: 480-121551-c-1-a PDS Acquired: 7/25/2017 21:22:38 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05326**	**10.992**	**.34876**	**.81068**	**4.0265**
Stddev	.00033	.011	.00120	.00116	.0154
%RSD	.62326	.10326	.34370	.14355	.38235
#1	.05303	11.000	.34791	.80985	4.0373
#2	.05350	10.984	.34960	.81150	4.0156
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19689**	**171.14**	**.20895**	**-.0026**	**.22999**
Stddev	.00070	.65	.00009	.0326	.00038
%RSD	.35541	.38189	.04271	1261.	.16451
#1	.19738	171.61	.20902	-.0257	.23026
#2	.19639	170.68	.20889	.0205	.22973
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21682**	**.19405**	**30.477**	**15.813**	**.20692**
Stddev	.00130	.00061	.191	.054	.00069
%RSD	.59850	.31479	.62645	.34162	.33219
#1	.21590	.19448	30.612	15.851	.20643
#2	.21773	.19362	30.342	15.775	.20740
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121551-c-1-a PDS Acquired: 7/25/2017 21:22:38 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**98.051**	**7.9710**	**.21533**	**220.79**	**.24728**
Stddev	.567	.0058	.00064	.62	.00040
%RSD	.57781	.07259	.29685	.27945	.16156
#1	98.451	7.9751	.21578	221.23	.24756
#2	97.650	7.9669	.21487	220.35	.24700
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.23287**	**13.992**	**.20621**	**.20889**	**28.882**
Stddev	.00045	.024	.00215	.00503	.240
%RSD	.19336	.17227	1.0447	2.4058	.82957
#1	.23319	13.975	.20468	.21245	29.051
#2	.23255	14.009	.20773	.20534	28.712
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20447**	**1.1822**	**.22686**	**.20665**	**.21685**
Stddev	.00004	.0015	.00250	.00019	.00100
%RSD	.01953	.12347	1.1029	.09209	.45948
#1	.20444	1.1832	.22863	.20652	.21615
#2	.20450	1.1812	.22509	.20678	.21756
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121551-c-1-a PDS Acquired: 7/25/2017 21:22:38 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**2.8111**
Stddev	.0139
%RSD	.49457
#1	2.8209
#2	2.8012
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3051.5**	**2271.0**	**15965.**	**3249.5**
Stddev	5.1	6.2	34.	.2
%RSD	.16624	.27439	.21402	.00577
#1	3055.0	2275.4	15940.	3249.6
#2	3047.9	2266.6	15989.	3249.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	81.375%	94.525%	92.236%	100.41%
Range				

Sample Name: 480-121551-c-1-b ms Acquired: 7/25/2017 21:26:04 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05223**	**11.479**	**.35368**	**.85180**	**4.2481**
Stddev	.00049	.145	.00180	.00094	.0537
%RSD	.93960	1.2600	.50953	.11086	1.2640
#1	.05258	11.377	.35240	.85114	4.2101
#2	.05189	11.582	.35495	.85247	4.2861
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19723**	**179.86**	**.20945**	**-.0304**	**.23220**
Stddev	.00149	1.36	.00072	.0496	.00011
%RSD	.75462	.75665	.34525	163.0	.04926
#1	.19618	178.90	.20894	-.0655	.23212
#2	.19828	180.83	.20997	.0046	.23228
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21807**	**.19473**	**31.572**	**16.330**	**.20730**
Stddev	.00120	.00084	.368	.223	.00219
%RSD	.55005	.42914	1.1642	1.3649	1.0580
#1	.21892	.19532	31.312	16.172	.20575
#2	.21723	.19414	31.832	16.488	.20886
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121551-c-1-b ms Acquired: 7/25/2017 21:26:04 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**102.96**	**8.3604**	**.21613**	**232.09**	**.25145**
Stddev	.31	.0275	.00044	2.58	.00012
%RSD	.30021	.32932	.20469	1.1103	.04581
#1	103.18	8.3409	.21581	230.27	.25153
#2	102.74	8.3799	.21644	233.91	.25137
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.23257**	**14.664**	**.20885**	**.21124**	**26.057**
Stddev	.00129	.026	.00157	.00161	.152
%RSD	.55333	.17648	.75002	.76230	.58230
#1	.23348	14.646	.20774	.21010	25.950
#2	.23166	14.682	.20996	.21238	26.164
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21506**	**1.2451**	**.22540**	**.20628**	**.21633**
Stddev	.00068	.0057	.00166	.00089	.00064
%RSD	.31536	.45818	.73722	.43008	.29540
#1	.21554	1.2410	.22423	.20691	.21678
#2	.21458	1.2491	.22658	.20566	.21588
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121551-c-1-b ms Acquired: 7/25/2017 21:26:04 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**2.9491**
Stddev	.0106
%RSD	.35802
#1	2.9566
#2	2.9417
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3029.3**	**2260.0**	**15930.**	**3229.8**
Stddev	4.9	8.1	42.	31.3
%RSD	.16223	.35842	.26210	.96880
#1	3032.8	2265.7	15901.	3251.9
#2	3025.8	2254.3	15960.	3207.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	80.785%	94.067%	92.037%	99.796%
Range				

Sample Name: 480-121551-c-1-c msd Acquired: 7/25/2017 21:29:30 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.05230	11.315	.35046	.82511	4.1058
Stddev	.00038	.047	.00219	.00067	.0124
%RSD	.72614	.41508	.62488	.08082	.30118
#1	.05257	11.282	.34892	.82464	4.1146
#2	.05204	11.348	.35201	.82558	4.0971
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.19675	173.82	.20881	-.0211	.23027
Stddev	.00036	.16	.00011	.0074	.00052
%RSD	.18397	.09386	.05202	35.17	.22406
#1	.19701	173.93	.20889	-.0263	.22991
#2	.19649	173.70	.20873	-.0158	.23063
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.21968	.19572	30.839	16.067	.20703
Stddev	.00010	.00016	.084	.088	.00112
%RSD	.04510	.08168	.27311	.54650	.53935
#1	.21961	.19583	30.899	16.129	.20782
#2	.21975	.19561	30.780	16.005	.20624
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121551-c-1-c msd Acquired: 7/25/2017 21:29:30 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**99.947**	**8.1455**	**.21539**	**225.33**	**.24833**
Stddev	.274	.0134	.00010	.39	.00011
%RSD	.27409	.16456	.04548	.17191	.04491
#1	99.753	8.1549	.21546	225.60	.24826
#2	100.14	8.1360	.21532	225.05	.24841
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.23295**	**14.339**	**.20923**	**.20930**	**25.367**
Stddev	.00025	.008	.00011	.00188	.009
%RSD	.10658	.05601	.05152	.89746	.03387
#1	.23313	14.334	.20930	.21062	25.373
#2	.23278	14.345	.20915	.20797	25.361
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21179**	**1.2028**	**.22387**	**.20577**	**.21648**
Stddev	.00024	.0012	.00097	.00048	.00116
%RSD	.11409	.09567	.43248	.23133	.53555
#1	.21196	1.2036	.22455	.20544	.21729
#2	.21162	1.2019	.22318	.20611	.21566
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121551-c-1-c msd Acquired: 7/25/2017 21:29:30 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**2.8745**
Stddev	.0122
%RSD	.42347
#1	2.8658
#2	2.8831
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3036.6**	**2263.8**	**15862.**	**3232.4**
Stddev	2.4	3.5	39.	13.2
%RSD	.07805	.15622	.24641	.40727
#1	3034.9	2261.3	15889.	3223.0
#2	3038.2	2266.3	15834.	3241.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	80.978%	94.224%	91.641%	99.875%
Range				

Sample Name: 480-121551-c-2-a Acquired: 7/25/2017 21:32:56 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00078**	**2.9381**	**.10020**	**.67466**	**3.3251**
Stddev	.00031	.0478	.00097	.00003	.0084
%RSD	39.772	1.6284	.96465	.00420	.25411
#1	-.00056	2.9043	.09951	.67464	3.3311
#2	-.00100	2.9719	.10088	.67468	3.3191
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00016**	**174.27**	**.00048**	**-.0110**	**.02479**
Stddev	.00001	.36	.00010	.0144	.00016
%RSD	4.4847	.20631	21.488	131.0	.65472
#1	.00015	174.52	.00055	-.0211	.02491
#2	.00016	174.01	.00040	-.0008	.02468
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00968**	**.01411**	**24.903**	**6.8814**	**.00794**
Stddev	.00037	.00140	.089	.0564	.00049
%RSD	3.7718	9.9009	.35830	.81923	6.2287
#1	.00994	.01510	24.966	6.9212	.00759
#2	.00943	.01313	24.840	6.8415	.00829
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121551-c-2-a Acquired: 7/25/2017 21:32:56 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**86.529**	**8.3704**	**.01137**	**219.27**	**.05930**
Stddev	.167	.0467	.00013	.41	.00038
%RSD	.19313	.55786	1.1638	.18719	.63881
#1	86.647	8.3374	.01128	219.56	.05904
#2	86.410	8.4034	.01147	218.98	.05957
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01758**	**4.4486**	**.00057**	**-.00700**	**19.067**
Stddev	.00101	.0125	.00093	.00191	.006
%RSD	5.7194	.28172	162.83	27.293	.02894
#1	.01830	4.4575	-.00009	-.00835	19.071
#2	.01687	4.4397	.00123	-.00565	19.063
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00170**	**.89719**	**.06717**	**.00036**	**.00568**
Stddev	.00096	.00033	.00233	.00032	.00012
%RSD	56.438	.03631	3.4629	87.796	2.0503
#1	.00102	.89696	.06881	.00058	.00576
#2	.00238	.89742	.06553	.00014	.00560
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121551-c-2-a Acquired: 7/25/2017 21:32:56 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**13.198**
Stddev	.001
%RSD	.01106
#1	13.199
#2	13.197
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3075.6**	**2269.8**	**16026.**	**3255.3**
Stddev	8.0	5.2	6.	9.1
%RSD	.26109	.22903	.03792	.27806
#1	3081.3	2273.5	16030.	3248.9
#2	3069.9	2266.2	16021.	3261.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	82.019%	94.476%	92.589%	100.59%
Range				

Sample Name: 480-121551-c-3-a Acquired: 7/25/2017 21:36:29 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00052**	**.06676**	**-.00017**	**.00719**	**.00656**
Stddev	.00006	.01038	.00075	.00056	.00001
%RSD	12.554	15.548	437.58	7.7299	.09245
#1	-.00047	.07410	.00036	.00680	.00655
#2	-.00056	.05942	-.00070	.00759	.00656
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00006**	**.77516**	**-.00015**	**-.0057**	**.00012**
Stddev	.00004	.00176	.00008	.0331	.00004
%RSD	58.165	.22735	48.460	582.5	29.716
#1	.00009	.77391	-.00010	.0177	.00010
#2	.00004	.77640	-.00021	-.0291	.00015
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00034**	**.00297**	**.06123**	**.92374**	**.00098**
Stddev	.00004	.00004	.00182	.02907	.00039
%RSD	10.418	1.2455	2.9736	3.1473	39.980
#1	-.00037	.00295	.06252	.90318	.00125
#2	-.00032	.00300	.05994	.94429	.00070
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121551-c-3-a Acquired: 7/25/2017 21:36:29 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.25531**	**.01362**	**.00016**	**2.0441**	**.00143**
Stddev	.00458	.00025	.00007	.0031	.00003
%RSD	1.7928	1.8143	41.307	.15079	2.2031
#1	.25855	.01379	.00020	2.0463	.00146
#2	.25208	.01344	.00011	2.0419	.00141
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00108**	**.06664**	**-.00060**	**-.00180**	**.08930**
Stddev	.00132	.00018	.00016	.00043	.00436
%RSD	122.90	.27364	27.411	23.992	4.8826
#1	-.00014	.06676	-.00048	-.00149	.09238
#2	-.00201	.06651	-.00071	-.00210	.08621
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00077**	**.00255**	**.00086**	**.00085**	**.00055**
Stddev	.00002	.00007	.00039	.00035	.00019
%RSD	2.0010	2.8067	45.024	40.553	33.953
#1	-.00078	.00260	.00059	.00061	.00041
#2	-.00076	.00250	.00114	.00110	.00068
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121551-c-3-a Acquired: 7/25/2017 21:36:29 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.02858
Stddev	.00086
%RSD	3.0039
#1	.02919
#2	.02797
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3823.9	2460.2	17498.	3353.5
Stddev	3.9	2.4	28.	2.8
%RSD	.10084	.09882	.16110	.08434
#1	3826.6	2461.9	17518.	3355.5
#2	3821.2	2458.5	17478.	3351.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	101.97%	102.40%	101.09%	103.62%
Range				

Sample Name: 480-121551-c-4-a Acquired: 7/25/2017 21:39:57 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00015**	**.00731**	**-.00076**	**.00534**	**.00039**
Stddev	.00038	.00714	.00036	.00021	.00001
%RSD	259.71	97.581	46.726	3.8736	1.4400
#1	-.00042	.00227	-.00051	.00548	.00039
#2	.00012	.01236	-.00102	.00519	.00040
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00006**	**.06148**	**-.00015**	**-.0031**	**.00010**
Stddev	.00004	.00013	.00004	.0253	.00029
%RSD	72.569	.21055	27.822	825.9	294.44
#1	.00009	.06139	-.00012	-.0209	.00031
#2	.00003	.06158	-.00019	.0148	-.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00018**	**.00020**	**.00696**	**.12127**	**.00045**
Stddev	.00036	.00039	.00015	.04010	.00022
%RSD	202.24	195.23	2.0901	33.069	49.994
#1	.00008	.00048	.00706	.14962	.00060
#2	-.00043	-.00008	.00686	.09291	.00029
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121551-c-4-a Acquired: 7/25/2017 21:39:57 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00770**	**.00059**	**-.00002**	**.19322**	**.00036**
Stddev	.00318	.00007	.00015	.01695	.00001
%RSD	41.247	11.188	705.93	8.7729	1.5270
#1	.00994	.00064	.00009	.18123	.00036
#2	.00545	.00055	-.00013	.20520	.00036
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00047**	**.02447**	**-.00070**	**-.00133**	**.01982**
Stddev	.00038	.00147	.00052	.00252	.00077
%RSD	80.827	6.0015	74.329	189.76	3.9018
#1	-.00074	.02550	-.00106	-.00311	.02037
#2	-.00020	.02343	-.00033	.00045	.01927
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00050**	**.00030**	**.00022**	**.00104**	**.00009**
Stddev	.00027	.00005	.00017	.00060	.00008
%RSD	53.680	15.071	80.286	58.112	91.767
#1	-.00031	.00033	.00034	.00061	.00003
#2	-.00069	.00027	.00009	.00146	.00015
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121551-c-4-a Acquired: 7/25/2017 21:39:57 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00275
Stddev	.00013
%RSD	4.8411
#1	.00284
#2	.00266
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3849.4	2467.6	17468.	3346.7
Stddev	9.6	6.3	2.	9.1
%RSD	.24887	.25661	.01306	.27246
#1	3856.2	2472.1	17470.	3353.1
#2	3842.7	2463.1	17467.	3340.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	102.66%	102.71%	100.92%	103.41%
Range				

Sample Name: CCV-4147885 Acquired: 7/25/2017 21:43:26 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.52881**	**24.861**	**.51784**	**.50171**	**.48082**
Stddev	.00054	.051	.00294	.00017	.00110
%RSD	.10163	.20337	.56693	.03325	.22813
#1	.52843	24.825	.51991	.50159	.48004
#2	.52919	24.896	.51576	.50183	.48159
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.48720**	**24.652**	**.49926**	**-.0245**	**.49520**
Stddev	.00049	.006	.00050	.0085	.00010
%RSD	.10043	.02613	.10085	34.71	.01944
#1	.48685	24.657	.49890	-.0305	.49514
#2	.48755	24.648	.49961	-.0184	.49527
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.54905**	**.47761**	**23.339**	**24.173**	**.49889**
Stddev	.00027	.00062	.076	.083	.00034
%RSD	.04979	.12999	.32641	.34272	.06907
#1	.54924	.47804	23.393	24.231	.49865
#2	.54886	.47717	23.286	24.114	.49914
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4147885 Acquired: 7/25/2017 21:43:26 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.077**	**.50871**	**.51652**	**24.594**	**.49896**
Stddev	.022	.00154	.00052	.011	.00061
%RSD	.08779	.30295	.10066	.04614	.12135
#1	25.061	.50762	.51689	24.602	.49853
#2	25.092	.50980	.51615	24.586	.49939
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50548**	**24.772**	**.49609**	**.51336**	**23.892**
Stddev	.00130	.045	.00068	.00262	.045
%RSD	.25801	.18348	.13641	.50981	.19045
#1	.50640	24.804	.49657	.51151	23.860
#2	.50456	24.739	.49561	.51521	23.924
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50655**	**.50107**	**.52594**	**.51717**	**.53091**
Stddev	.00007	.00149	.00072	.00457	.00009
%RSD	.01296	.29735	.13634	.88347	.01617
#1	.50650	.50002	.52644	.52040	.53097
#2	.50659	.50213	.52543	.51394	.53085
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4147885 Acquired: 7/25/2017 21:43:26 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.53311
Stddev	.00087
%RSD	.16275
#1	.53250
#2	.53372
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3434.0	2389.1	16690.	3238.5
Stddev	7.6	5.3	8.	14.7
%RSD	.22132	.22119	.05002	.45252
#1	3439.4	2392.9	16684.	3248.9
#2	3428.6	2385.4	16696.	3228.2

Sample Name: CCB-4130963 Acquired: 7/25/2017 21:46:39 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00018**	**.01934**	**-.00041**	**.00113**	**.00011**
Stddev	.00088	.00865	.00230	.00004	.00001
%RSD	488.75	44.727	560.07	3.3619	11.194
#1	.00044	.01323	-.00203	.00116	.00011
#2	-.00080	.02546	.00121	.00110	.00012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**.00588**	**-.00020**	**-.0122**	**-.00001**
Stddev	.00003	.00043	.00006	.0205	.00000
%RSD	72.376	7.2538	31.439	167.7	6.6496
#1	.00002	.00618	-.00015	-.0267	-.00001
#2	.00007	.00558	-.00024	.0023	-.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**-.00004**	**.00502**	**.03366**	**-.00102**
Stddev	.00012	.00108	.00028	.00216	.00227
%RSD	330.16	2511.5	5.5050	6.4061	223.53
#1	.00012	.00072	.00483	.03213	-.00262
#2	-.00005	-.00080	.00522	.03518	.00059
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4130963 Acquired: 7/25/2017 21:46:39 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00140**	**.00029**	**.00024**	**.12192**	**.00033**
Stddev	.00481	.00001	.00008	.01678	.00003
%RSD	343.59	4.9142	33.521	13.765	10.192
#1	.00200	.00030	.00030	.11005	.00030
#2	-.00480	.00028	.00018	.13378	.00035
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00043**	**.00502**	**-.00100**	**.00117**	**.00857**
Stddev	.00005	.00049	.00036	.00130	.00114
%RSD	10.991	9.8128	36.173	111.23	13.273
#1	-.00040	.00467	-.00126	.00209	.00937
#2	-.00047	.00537	-.00075	.00025	.00776
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00048**	**-.00001**	**-.00010**	**.00010**	**.00026**
Stddev	.00033	.00007	.00006	.00020	.00023
%RSD	68.211	1294.4	63.301	200.32	90.586
#1	-.00025	-.00005	-.00014	-.00004	.00009
#2	-.00071	.00004	-.00005	.00024	.00042
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4130963 Acquired: 7/25/2017 21:46:39 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.00079
Stddev	.00020
%RSD	25.458
#1	.00065
#2	.00094
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3768.9	2424.0	17102.	3237.1
Stddev	.2	.6	23.	.4
%RSD	.00521	.02667	.13537	.01321
#1	3769.1	2423.6	17118.	3236.8
#2	3768.8	2424.5	17086.	3237.4

Sample Name: CCVL-4147888 Acquired: 7/25/2017 21:50:08 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00570**	**.20226**	**.01534**	**.01994**	**.00210**
Stddev	.00117	.01265	.00046	.00018	.00001
%RSD	20.507	6.2519	3.0290	.88823	.25714
#1	.00488	.21120	.01567	.01982	.00209
#2	.00653	.19332	.01502	.02007	.00210
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00209**	**.49130**	**.00195**	**-.0008**	**.00404**
Stddev	.00005	.00165	.00009	.0327	.00023
%RSD	2.1696	.33557	4.3585	3927.	5.7552
#1	.00212	.49013	.00189	-.0239	.00420
#2	.00206	.49246	.00201	.0223	.00387
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00473**	**.00930**	**.05149**	**.58207**	**.03242**
Stddev	.00007	.00061	.00101	.04633	.00077
%RSD	1.5441	6.5359	1.9536	7.9601	2.3782
#1	.00478	.00973	.05220	.54931	.03188
#2	.00467	.00887	.05078	.61484	.03297
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4147888 Acquired: 7/25/2017 21:50:08 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19958**	**.00320**	**.01050**	**1.0794**	**.00992**
Stddev	.00482	.00005	.00003	.0034	.00030
%RSD	2.4125	1.6932	.33119	.31241	3.0130
#1	.20299	.00316	.01048	1.0818	.00971
#2	.19618	.00323	.01053	1.0770	.01013
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00919**	**.19403**	**.02027**	**.02732**	**.49845**
Stddev	.00048	.00264	.00160	.00174	.01741
%RSD	5.2768	1.3586	7.8906	6.3880	3.4929
#1	.00884	.19217	.01914	.02608	.48614
#2	.00953	.19590	.02141	.02855	.51076
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00863**	**.00496**	**.00480**	**.01982**	**.00534**
Stddev	.00016	.00012	.00003	.00013	.00040
%RSD	1.8602	2.5032	.72728	.65852	7.4355
#1	.00875	.00505	.00477	.01992	.00562
#2	.00852	.00487	.00482	.01973	.00505
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4147888 Acquired: 7/25/2017 21:50:08 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.01146
Stddev	.00044
%RSD	3.8307
#1	.01177
#2	.01115
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3786.3	2443.4	17198.	3252.0
Stddev	3.8	2.0	8.	2.2
%RSD	.10109	.08225	.04749	.06627
#1	3783.6	2444.8	17192.	3250.5
#2	3789.0	2441.9	17203.	3253.5

Sample Name: 480-121551-c-5-a Acquired: 7/25/2017 21:53:36 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00130**	**1.7233**	**.12669**	**.67488**	**3.1491**
Stddev	.00039	.0040	.00214	.00061	.0081
%RSD	30.024	.23418	1.6882	.09016	.25801
#1	-.00157	1.7204	.12820	.67445	3.1433
#2	-.00102	1.7261	.12517	.67531	3.1548
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00014**	**163.42**	**.00050**	**-.0066**	**.02444**
Stddev	.00003	1.04	.00014	.0265	.00037
%RSD	18.975	.63446	27.841	400.9	1.5111
#1	.00012	162.69	.00060	.0121	.02418
#2	.00016	164.16	.00040	-.0254	.02470
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00709**	**.02498**	**16.300**	**6.2101**	**.00799**
Stddev	.00135	.00039	.096	.0027	.00037
%RSD	19.011	1.5554	.58760	.04359	4.6698
#1	.00805	.02470	16.232	6.2120	.00825
#2	.00614	.02525	16.368	6.2082	.00773
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121551-c-5-a Acquired: 7/25/2017 21:53:36 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**79.931**	**7.9537**	**.01165**	**212.50**	**.05357**
Stddev	.301	.0601	.00009	.88	.00033
%RSD	.37637	.75546	.76688	.41467	.61878
#1	80.144	7.9962	.01159	211.88	.05333
#2	79.719	7.9112	.01171	213.13	.05380
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00985**	**4.1259**	**.00054**	**-.00401**	**16.470**
Stddev	.00115	.0109	.00118	.00338	.037
%RSD	11.685	.26286	220.26	84.222	.22393
#1	.01066	4.1183	-.00030	-.00640	16.444
#2	.00903	4.1336	.00137	-.00162	16.496
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00146**	**.81486**	**.04197**	**.00029**	**.00493**
Stddev	.00009	.00034	.00188	.00189	.00063
%RSD	6.1236	.04206	4.4799	655.18	12.711
#1	.00139	.81462	.04064	-.00105	.00537
#2	.00152	.81510	.04330	.00163	.00448
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121551-c-5-a Acquired: 7/25/2017 21:53:36 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**5.1973**
Stddev	.0051
%RSD	.09821
#1	5.2009
#2	5.1937
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3107.6**	**2275.1**	**16019.**	**3276.4**
Stddev	1.6	2.7	13.	40.5
%RSD	.05147	.11708	.07817	1.2362
#1	3106.5	2273.2	16010.	3305.0
#2	3108.7	2277.0	16027.	3247.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	82.873%	94.696%	92.548%	101.23%
Range				

Sample Name: 480-121295-c-1-a Acquired: 7/25/2017 21:57:08 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00019**	**.30178**	**.00053**	**.00581**	**.02520**
Stddev	.00022	.02143	.00168	.00003	.00006
%RSD	115.74	7.0997	315.15	.57785	.24740
#1	-.00003	.31693	.00172	.00579	.02524
#2	-.00034	.28663	-.00065	.00584	.02516
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00007**	**5.9141**	**-.00001**	**-.0065**	**-.00014**
Stddev	.00007	.0035	.00009	.0259	.00003
%RSD	91.952	.05892	642.71	397.4	21.955
#1	.00012	5.9165	-.00008	-.0249	-.00016
#2	.00003	5.9116	.00005	.0118	-.00012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00180**	**.00021**	**.24073**	**2.0585**	**.01163**
Stddev	.00104	.00059	.00159	.0478	.00171
%RSD	57.688	286.92	.66160	2.3237	14.685
#1	.00107	-.00021	.23960	2.0247	.01284
#2	.00253	.00063	.24185	2.0924	.01043
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121295-c-1-a Acquired: 7/25/2017 21:57:08 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.4126**	**.01171**	**.00017**	**7.3799**	**.00023**
Stddev	.0011	.00005	.00016	.0220	.00018
%RSD	.04416	.44773	94.342	.29788	76.538
#1	2.4118	.01167	.00029	7.3643	.00035
#2	2.4133	.01175	.00006	7.3954	.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00260**	**.07387**	**-.00044**	**-.00048**	**17.270**
Stddev	.00116	.00032	.00047	.00264	.051
%RSD	44.844	.42812	106.59	548.28	.29430
#1	.00177	.07365	-.00077	.00139	17.234
#2	.00342	.07410	-.00011	-.00235	17.306
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00050**	**.06309**	**.02242**	**.00064**	**.00347**
Stddev	.00050	.00005	.00010	.00041	.00014
%RSD	99.470	.07695	.43882	63.619	4.0830
#1	-.00086	.06305	.02249	.00035	.00337
#2	-.00015	.06312	.02235	.00093	.00357
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121295-c-1-a Acquired: 7/25/2017 21:57:08 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.00480**
Stddev	.00031
%RSD	6.3810
#1	.00501
#2	.00458
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3751.4**	**2458.3**	**17386.**	**3344.1**
Stddev	4.0	3.9	26.	12.2
%RSD	.10569	.15910	.14733	.36549
#1	3748.6	2455.5	17368.	3352.7
#2	3754.2	2461.0	17404.	3335.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	100.04%	102.32%	100.45%	103.33%
Range				

Sample Name: 480-121295-c-2-a Acquired: 7/25/2017 22:00:35 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00027**	**.08258**	**.00094**	**.00505**	**.03800**
Stddev	.00008	.01624	.00196	.00001	.00004
%RSD	31.166	19.667	207.55	.14798	.09750
#1	-.00033	.07109	.00233	.00504	.03803
#2	-.00021	.09406	-.00044	.00505	.03798
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00005**	**1.5544**	**.00001**	**.0106**	**.00002**
Stddev	.00002	.0038	.00006	.0113	.00002
%RSD	33.578	.24480	915.70	107.2	144.51
#1	.00004	1.5517	.00005	.0186	.00003
#2	.00006	1.5570	-.00004	.0026	-.00000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00026**	**.00136**	**.03817**	**1.6984**	**.00361**
Stddev	.00044	.00035	.00004	.0124	.00063
%RSD	165.01	26.065	.10510	.73175	17.360
#1	.00004	.00111	.03820	1.6897	.00405
#2	-.00057	.00161	.03814	1.7072	.00316
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121295-c-2-a Acquired: 7/25/2017 22:00:35 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.42400**	**.01042**	**-.00002**	**2.2058**	**.00069**
Stddev	.00464	.00004	.00011	.0055	.00028
%RSD	1.0952	.41214	471.69	.24921	39.871
#1	.42728	.01045	.00005	2.2019	.00050
#2	.42071	.01039	-.00010	2.2097	.00089
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00006**	**.05599**	**.00004**	**-.00201**	**5.6956**
Stddev	.00037	.00253	.00037	.00196	.0181
%RSD	670.86	4.5116	952.58	97.445	.31691
#1	.00032	.05778	-.00022	-.00340	5.6828
#2	-.00021	.05421	.00030	-.00063	5.7083
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00072**	**.01949**	**.00344**	**.00123**	**-.00017**
Stddev	.00011	.00026	.00075	.00017	.00068
%RSD	15.076	1.3460	21.687	14.092	395.91
#1	-.00080	.01931	.00292	.00111	-.00065
#2	-.00064	.01968	.00397	.00136	.00031
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121295-c-2-a Acquired: 7/25/2017 22:00:35 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00966
Stddev	.00052
%RSD	5.3609
#1	.01003
#2	.00930
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3819.2	2467.2	17411.	3328.4
Stddev	4.1	.4	18.	2.8
%RSD	.10633	.01572	.10410	.08512
#1	3822.1	2466.9	17398.	3326.4
#2	3816.3	2467.4	17424.	3330.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	101.85%	102.69%	100.59%	102.84%
Range				

Sample Name: 480-121295-c-3-a Acquired: 7/25/2017 22:04:01 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00022**	**.84170**	**.00225**	**.00516**	**.17489**
Stddev	.00018	.01108	.00010	.00015	.00041
%RSD	83.356	1.3168	4.6066	2.9100	.23404
#1	-.00009	.83386	.00218	.00527	.17518
#2	-.00034	.84953	.00233	.00505	.17460
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00177**	**22.576**	**.00029**	**.0528**	**.00727**
Stddev	.00010	.053	.00002	.0252	.00013
%RSD	5.8128	.23686	5.8683	47.67	1.8316
#1	.00185	22.539	.00030	.0350	.00717
#2	.00170	22.614	.00028	.0706	.00736
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00108**	**.00052**	**.13315**	**4.3711**	**.00431**
Stddev	.00005	.00122	.00218	.0045	.00063
%RSD	4.2074	232.04	1.6383	.10171	14.660
#1	.00105	-.00034	.13161	4.3742	.00386
#2	.00111	.00138	.13470	4.3679	.00476
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121295-c-3-a Acquired: 7/25/2017 22:04:01 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**12.653**	**.11125**	**.00002**	**21.353**	**.00289**
Stddev	.096	.00031	.00002	.059	.00013
%RSD	.75782	.28156	140.62	.27506	4.6182
#1	12.721	.11147	.00003	21.311	.00279
#2	12.586	.11103	.00000	21.394	.00298
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00209**	**50.034**	**-.00092**	**.01690**	**10.366**
Stddev	.00032	.078	.00079	.00102	.031
%RSD	15.170	.15568	86.231	6.0281	.30377
#1	.00231	50.089	-.00148	.01762	10.344
#2	.00187	49.979	-.00036	.01618	10.389
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00079**	**.14236**	**.01215**	**.00026**	**.00030**
Stddev	.00011	.00003	.00000	.00041	.00007
%RSD	13.599	.02148	.01412	155.03	23.988
#1	-.00071	.14234	.01215	-.00003	.00025
#2	-.00086	.14238	.01215	.00055	.00035
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121295-c-3-a Acquired: 7/25/2017 22:04:01 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.01527
Stddev	.00038
%RSD	2.5185
#1	.01554
#2	.01500
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3621.6	2572.7	18038.	3505.1
Stddev	5.8	.1	80.	2.4
%RSD	.15971	.00530	.44213	.06732
#1	3625.7	2572.8	17982.	3503.4
#2	3617.5	2572.6	18095.	3506.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	96.578%	107.08%	104.22%	108.30%
Range				

Sample Name: 480-121295-c-4-a Acquired: 7/25/2017 22:07:25 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00068**	**.04773**	**.00332**	**.21012**	**.01653**
Stddev	.00121	.01620	.00040	.00068	.00001
%RSD	176.72	33.929	12.117	.32159	.09054
#1	.00017	.03628	.00304	.20964	.01654
#2	-.00153	.05918	.00360	.21059	.01652
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	**50.840**	**-.00001**	**.0016**	**-.00003**
Stddev	.00011	.020	.00013	.0012	.00025
%RSD	479.01	.04000	948.28	73.74	718.81
#1	-.00005	50.855	-.00011	.0008	.00014
#2	.00010	50.826	.00008	.0025	-.00021
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00175**	**.06305**	**.05423**	**6.5534**	**.01493**
Stddev	.00018	.00132	.00029	.0341	.00083
%RSD	10.562	2.0956	.52632	.52014	5.5615
#1	.00188	.06211	.05403	6.5293	.01551
#2	.00162	.06398	.05443	6.5775	.01434
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121295-c-4-a Acquired: 7/25/2017 22:07:25 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.746**	**.03993**	**.00009**	**60.956**	**.00269**
Stddev	.019	.00005	.00002	.189	.00010
%RSD	.17841	.12901	24.793	.30977	3.7388
#1	10.759	.03989	.00010	61.089	.00277
#2	10.732	.03997	.00007	60.822	.00262
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00125**	**84.849**	**-.00175**	**.00253**	**12.551**
Stddev	.00023	.030	.00070	.00058	.007
%RSD	18.346	.03491	40.093	22.779	.05977
#1	.00109	84.828	-.00126	.00294	12.546
#2	.00141	84.870	-.00225	.00212	12.556
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00081**	**.28427**	**.00085**	**.00076**	**.00109**
Stddev	.00075	.00055	.00009	.00045	.00033
%RSD	92.020	.19254	10.885	58.490	30.597
#1	-.00134	.28388	.00078	.00108	.00086
#2	-.00028	.28465	.00092	.00045	.00133
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121295-c-4-a Acquired: 7/25/2017 22:07:25 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00797
Stddev	.00029
%RSD	3.7016
#1	.00776
#2	.00818
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3471.0	2387.9	16802.	3315.2
Stddev	1.7	.8	45.	8.3
%RSD	.04869	.03234	.26962	.25101
#1	3472.2	2388.4	16770.	3321.1
#2	3469.8	2387.3	16834.	3309.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.562%	99.388%	97.076%	102.44%
Range				

Sample Name: 480-121295-c-5-a Acquired: 7/25/2017 22:10:49 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00076**	**.07915**	**.00045**	**.00536**	**.04268**
Stddev	.00074	.03320	.00165	.00026	.00011
%RSD	97.494	41.948	369.65	4.9322	.25854
#1	-.00024	.10262	.00161	.00517	.04276
#2	-.00128	.05567	-.00072	.00554	.04261
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00003**	**6.4266**	**-.00009**	**-.0140**	**-.00024**
Stddev	.00005	.0338	.00002	.0082	.00013
%RSD	169.15	.52520	26.062	58.28	54.737
#1	.00001	6.4028	-.00007	-.0083	-.00033
#2	-.00006	6.4505	-.00010	-.0198	-.00015
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00958**	**.00021**	**.06828**	**1.4884**	**.00606**
Stddev	.00092	.00055	.00016	.0337	.00055
%RSD	9.5652	262.79	.23835	2.2634	9.0766
#1	.00893	.00060	.06816	1.4646	.00567
#2	.01023	-.00018	.06839	1.5122	.00645
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121295-c-5-a Acquired: 7/25/2017 22:10:49 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.7014**	**.00175**	**-.00015**	**5.7022**	**.00019**
Stddev	.0050	.00004	.00012	.0194	.00018
%RSD	.18646	2.1551	85.244	.34048	97.170
#1	2.6979	.00177	-.00023	5.6885	.00031
#2	2.7050	.00172	-.00006	5.7159	.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00247**	**1.0609**	**-.00132**	**-.00234**	**14.338**
Stddev	.00137	.0016	.00070	.00033	.053
%RSD	55.503	.14676	53.362	13.975	.36684
#1	.00150	1.0620	-.00182	-.00257	14.301
#2	.00344	1.0598	-.00082	-.00211	14.376
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00064**	**.06801**	**.00550**	**.00076**	**.00239**
Stddev	.00008	.00006	.00023	.00120	.00057
%RSD	12.953	.08728	4.2496	157.33	24.035
#1	-.00058	.06805	.00533	.00162	.00279
#2	-.00070	.06797	.00566	-.00009	.00198
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121295-c-5-a Acquired: 7/25/2017 22:10:49 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.00144**
Stddev	.00026
%RSD	18.293
#1	.00163
#2	.00125
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3768.2**	**2457.9**	**17351.**	**3345.0**
Stddev	7.4	5.5	45.	22.7
%RSD	.19764	.22249	.26159	.67967
#1	3773.4	2461.8	17383.	3361.1
#2	3762.9	2454.0	17319.	3328.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	100.49%	102.30%	100.25%	103.36%
Range				

Sample Name: 480-121295-c-6-a Acquired: 7/25/2017 22:14:14 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00012**	**.02016**	**.00044**	**.00307**	**.00011**
Stddev	.00014	.02253	.00052	.00035	.00002
%RSD	119.95	111.76	119.24	11.352	17.168
#1	.00002	.03609	.00007	.00331	.00009
#2	.00022	.00423	.00081	.00282	.00012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00005**	**.04757**	**-.00005**	**-.0116**	**.00006**
Stddev	.00001	.00162	.00016	.0234	.00006
%RSD	24.340	3.3994	302.13	201.4	103.26
#1	.00005	.04642	.00006	.0049	.00010
#2	.00004	.04871	-.00016	-.0282	.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00007**	**-.00056**	**.00195**	**.13455**	**.00037**
Stddev	.00005	.00208	.00024	.00159	.00107
%RSD	73.111	370.36	12.265	1.1827	284.73
#1	-.00003	-.00204	.00212	.13343	.00113
#2	-.00011	.00091	.00178	.13568	-.00038
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121295-c-6-a Acquired: 7/25/2017 22:14:14 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00127**	**.00013**	**-.00005**	**.10542**	**.00015**
Stddev	.00716	.00002	.00002	.00368	.00011
%RSD	564.79	11.577	46.071	3.4954	76.630
#1	-.00379	.00015	-.00007	.10281	.00023
#2	.00633	.00012	-.00004	.10802	.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00021**	**.00826**	**-.00061**	**-.00031**	**.00777**
Stddev	.00017	.00138	.00159	.00137	.00093
%RSD	81.244	16.773	261.11	434.49	11.910
#1	-.00009	.00923	-.00173	-.00128	.00842
#2	-.00033	.00728	.00051	.00065	.00712
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00090**	**.00029**	**.00013**	**-.00004**	**.00026**
Stddev	.00022	.00003	.00011	.00029	.00003
%RSD	24.325	10.697	80.896	673.42	11.642
#1	-.00074	.00027	.00006	.00016	.00024
#2	-.00105	.00031	.00021	-.00025	.00028
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121295-c-6-a Acquired: 7/25/2017 22:14:14 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00129
Stddev	.00040
%RSD	31.177
#1	.00157
#2	.00100
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3853.6	2466.8	17542.	3332.5
Stddev	6.3	6.5	70.	7.5
%RSD	.16351	.26325	.40126	.22487
#1	3849.2	2462.2	17592.	3337.8
#2	3858.1	2471.4	17492.	3327.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	102.77%	102.67%	101.35%	102.97%
Range				

Sample Name: 480-121386-a-2-b Acquired: 7/25/2017 22:17:42 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00297**	**.07281**	**.00305**	**.41974**	**3.0174**
Stddev	.00056	.01095	.00115	.00014	.0021
%RSD	18.920	15.038	37.891	.03315	.06873
#1	-.00257	.08055	.00386	.41984	3.0188
#2	-.00337	.06507	.00223	.41964	3.0159
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00003**	**467.28**	**.00131**	**-.1179**	**-.00064**
Stddev	.00003	1.01	.00002	.0090	.00020
%RSD	84.710	.21513	1.2188	7.662	31.837
#1	-.00001	467.99	.00132	-.1115	-.00050
#2	-.00005	466.56	.00130	-.1243	-.00079
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00049**	**-.00336**	**7.8986**	**20.998**	**-.00707**
Stddev	.00005	.00053	.0069	.076	.00032
%RSD	9.5736	15.696	.08759	.36405	4.5610
#1	-.00053	-.00373	7.8937	21.052	-.00684
#2	-.00046	-.00299	7.9035	20.944	-.00730
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121386-a-2-b Acquired: 7/25/2017 22:17:42 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576-2	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}2	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**159.15**	**36.449**	**-.00107**	**1144.8**	**.00199**
Stddev	.36	.207	.00027	2.1	.00120
%RSD	.22569	.56813	25.051	.18502	60.042
#1	158.90	36.302	-.00126	1146.3	.00284
#2	159.41	36.595	-.00088	1143.3	.00115
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00395**	**12.819**	**-.00274**	**-.01483**	**5.1424**
Stddev	.00262	.030	.00074	.00027	.0111
%RSD	66.273	.23105	26.943	1.8493	.21502
#1	.00580	12.798	-.00326	-.01464	5.1346
#2	.00210	12.840	-.00222	-.01503	5.1502
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00069**	**2.3831**	**-.00013**	**-.00247**	**-.00117**
Stddev	.00109	.0032	.00046	.00089	.00012
%RSD	156.83	.13345	343.12	35.978	10.085
#1	-.00146	2.3808	.00019	-.00310	-.00125
#2	.00008	2.3853	-.00046	-.00184	-.00109
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121386-a-2-b Acquired: 7/25/2017 22:17:42 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.00350**
Stddev	.00008
%RSD	2.3326
#1	.00356
#2	.00345
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2647.1**	**2059.0**	**14477.**	**3097.4**
Stddev	.2	1.2	79.	5.5
%RSD	.00655	.06031	.54614	.17690
#1	2647.0	2058.1	14533.	3093.5
#2	2647.3	2059.9	14421.	3101.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	70.593%	85.700%	83.642%	95.704%
Range				

Sample Name: 480-121370-f-8-c Acquired: 7/25/2017 22:21:28 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00043**	**.03183**	**-.00180**	**.00339**	**.00089**
Stddev	.00008	.01313	.00293	.00047	.00002
%RSD	18.930	41.252	162.91	13.743	2.3817
#1	-.00037	.04111	-.00388	.00372	.00090
#2	-.00049	.02254	.00027	.00306	.00087
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00000**	**.27070**	**-.00011**	**.0076**	**.00027**
Stddev	.00008	.00048	.00002	.0402	.00003
%RSD	4709.4	.17855	14.035	532.0	9.8045
#1	.00006	.27104	-.00012	.0360	.00025
#2	-.00006	.27035	-.00010	-.0209	.00029
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00050**	**.00039**	**.02644**	**.11966**	**.00202**
Stddev	.00036	.00152	.00158	.00191	.00096
%RSD	72.020	385.95	5.9631	1.5928	47.470
#1	.00076	-.00068	.02755	.12100	.00269
#2	.00025	.00147	.02532	.11831	.00134
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121370-f-8-c Acquired: 7/25/2017 22:21:28 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.03996**	**.00380**	**.00081**	**.34155**	**.00024**
Stddev	.00148	.00015	.00001	.01075	.00021
%RSD	3.6956	4.0653	.89123	3.1477	87.779
#1	.04101	.00391	.00080	.34915	.00009
#2	.03892	.00369	.00081	.33394	.00039
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00162**	**.02841**	**-.00106**	**-.00189**	**.02159**
Stddev	.00116	.00041	.00154	.00007	.00524
%RSD	71.500	1.4368	146.39	3.5916	24.281
#1	.00245	.02812	.00004	-.00194	.01789
#2	.00080	.02870	-.00215	-.00184	.02530
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00055**	**.00136**	**.00025**	**.00073**	**-.00012**
Stddev	.00017	.00001	.00029	.00081	.00013
%RSD	30.415	1.0002	118.10	110.81	101.50
#1	-.00043	.00137	.00004	.00130	-.00021
#2	-.00066	.00135	.00045	.00016	-.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121370-f-8-c Acquired: 7/25/2017 22:21:28 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00211
Stddev	.00075
%RSD	35.566
#1	.00158
#2	.00264
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3853.1	2470.7	17460.	3318.7
Stddev	7.1	3.3	32.	5.9
%RSD	.18502	.13376	.18555	.17782
#1	3858.1	2473.0	17483.	3322.9
#2	3848.0	2468.3	17437.	3314.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	102.75%	102.84%	100.88%	102.54%
Range				

Sample Name: CCV-4147885 Acquired: 7/25/2017 22:24:57 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.52687**	**24.853**	**.51644**	**.50036**	**.48312**
Stddev	.00655	.008	.00272	.00002	.00102
%RSD	1.2441	.03279	.52603	.00414	.21092
#1	.52223	24.848	.51837	.50034	.48240
#2	.53150	24.859	.51452	.50037	.48384
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.48824**	**24.672**	**.50038**	**-.0055**	**.49603**
Stddev	.00109	.067	.00111	.0035	.00059
%RSD	.22233	.27019	.22149	63.58	.11879
#1	.48901	24.719	.50117	-.0030	.49645
#2	.48748	24.624	.49960	-.0079	.49561
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.54532**	**.47890**	**23.381**	**24.344**	**.50033**
Stddev	.00324	.00008	.084	.093	.00055
%RSD	.59491	.01716	.36085	.38351	.11008
#1	.54303	.47884	23.441	24.410	.50071
#2	.54762	.47895	23.322	24.278	.49994
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4147885 Acquired: 7/25/2017 22:24:57 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.107**	**.51216**	**.51662**	**24.741**	**.49996**
Stddev	.024	.00071	.00146	.094	.00013
%RSD	.09621	.13769	.28325	.37990	.02513
#1	25.124	.51266	.51765	24.807	.50004
#2	25.089	.51166	.51558	24.674	.49987
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50533**	**24.800**	**.49732**	**.51239**	**23.875**
Stddev	.00164	.093	.00331	.00344	.017
%RSD	.32531	.37511	.66530	.67107	.07022
#1	.50649	24.866	.49966	.50996	23.887
#2	.50416	24.734	.49498	.51483	23.864
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50818**	**.50012**	**.52314**	**.51613**	**.52887**
Stddev	.00056	.00152	.00147	.00320	.00134
%RSD	.11030	.30363	.28061	.62022	.25275
#1	.50857	.50119	.52210	.51386	.52792
#2	.50778	.49905	.52418	.51839	.52981
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4147885 Acquired: 7/25/2017 22:24:57 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	**.53040**
Stddev	.00047
%RSD	.08921
#1	.53073
#2	.53006
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3428.1**	**2385.2**	**16713.**	**3243.3**
Stddev	6.3	5.0	42.	20.1
%RSD	.18412	.20875	.25055	.61939
#1	3423.7	2381.6	16684.	3229.1
#2	3432.6	2388.7	16743.	3257.5

Sample Name: CCB-4130963 Acquired: 7/25/2017 22:28:10 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00041**	**.00394**	**.00125**	**.00023**	**.00014**
Stddev	.00069	.00438	.00040	.00022	.00002
%RSD	168.43	111.21	32.338	98.876	15.969
#1	-.00089	.00084	.00153	.00039	.00012
#2	.00008	.00704	.00096	.00007	.00015
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00006**	**.01883**	**-.00021**	**-.0077**	**.00004**
Stddev	.00009	.00246	.00007	.0004	.00001
%RSD	163.23	13.063	34.160	5.355	13.100
#1	.00012	.01709	-.00026	-.0074	.00005
#2	-.00001	.02057	-.00016	-.0079	.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**.00007**	**.00435**	**.08148**	**.00098**
Stddev	.00043	.00005	.00104	.06574	.00078
%RSD	1109.0	80.267	23.863	80.689	79.952
#1	.00034	.00003	.00362	.03499	.00043
#2	-.00027	.00011	.00509	.12797	.00153
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4130963 Acquired: 7/25/2017 22:28:10 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00268**	**.00099**	**.00028**	**.14915**	**.00034**
Stddev	.00114	.00008	.00002	.00159	.00005
%RSD	42.757	8.3042	8.2809	1.0655	15.586
#1	.00187	.00105	.00029	.14803	.00038
#2	.00349	.00093	.00026	.15028	.00031
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00151**	**.00232**	**-.00029**	**-.00063**	**.01388**
Stddev	.00028	.00111	.00001	.00010	.01412
%RSD	18.437	47.713	1.7718	15.689	101.72
#1	-.00131	.00311	-.00029	-.00056	.00390
#2	-.00171	.00154	-.00029	-.00070	.02386
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00088**	**.00015**	**-.00051**	**-.00042**	**.00022**
Stddev	.00026	.00005	.00028	.00063	.00033
%RSD	29.533	33.463	55.210	148.22	151.27
#1	-.00106	.00018	-.00031	.00002	-.00002
#2	-.00069	.00011	-.00070	-.00087	.00046
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4130963 Acquired: 7/25/2017 22:28:10 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.00107
Stddev	.00032
%RSD	30.135
#1	.00084
#2	.00130
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3763.9	2421.0	17137.	3232.8
Stddev	.7	.1	65.	4.7
%RSD	.01936	.00443	.37921	.14421
#1	3763.4	2421.0	17183.	3236.1
#2	3764.4	2421.1	17091.	3229.5

Sample Name: CCVL-4147888 Acquired: 7/25/2017 22:31:38 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00546**	**.21794**	**.01421**	**.01949**	**.00209**
Stddev	.00027	.01195	.00107	.00046	.00001
%RSD	4.9196	5.4830	7.5059	2.3633	.28659
#1	.00565	.20949	.01345	.01982	.00209
#2	.00527	.22639	.01496	.01917	.00210
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00198**	**.49830**	**.00188**	**-.0090**	**.00394**
Stddev	.00015	.00150	.00009	.0229	.00001
%RSD	7.5284	.30082	4.9690	254.2	.32440
#1	.00208	.49936	.00195	.0072	.00393
#2	.00187	.49724	.00181	-.0252	.00395
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00436**	**.00961**	**.05099**	**.53372**	**.03083**
Stddev	.00037	.00073	.00154	.03672	.00101
%RSD	8.4775	7.5468	3.0294	6.8792	3.2831
#1	.00410	.00910	.05208	.50776	.03155
#2	.00463	.01012	.04990	.55969	.03012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4147888 Acquired: 7/25/2017 22:31:38 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19925**	**.00355**	**.01026**	**1.0932**	**.01000**
Stddev	.00353	.00019	.00017	.0147	.00011
%RSD	1.7701	5.4103	1.6735	1.3448	1.0995
#1	.20174	.00369	.01038	1.0828	.01008
#2	.19676	.00342	.01014	1.1036	.00992
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00965**	**.19460**	**.01978**	**.02443**	**.49692**
Stddev	.00021	.00061	.00069	.00366	.02833
%RSD	2.2017	.31513	3.4764	14.973	5.7006
#1	.00950	.19416	.01929	.02184	.47689
#2	.00980	.19503	.02026	.02702	.51695
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00905**	**.00508**	**.00563**	**.01948**	**.00487**
Stddev	.00036	.00003	.00051	.00101	.00002
%RSD	4.0219	.51838	9.1068	5.1999	.34346
#1	.00880	.00506	.00599	.02020	.00485
#2	.00931	.00510	.00527	.01877	.00488
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4147888 Acquired: 7/25/2017 22:31:38 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.01151
Stddev	.00031
%RSD	2.6758
#1	.01129
#2	.01173
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3783.5	2444.3	17293.	3256.3
Stddev	3.2	2.4	20.	6.0
%RSD	.08402	.09663	.11445	.18522
#1	3785.7	2442.6	17307.	3252.1
#2	3781.3	2445.9	17279.	3260.6

Sample Name: mb 480-368427/1-a Acquired: 7/25/2017 22:35:06 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00039**	**.02893**	**.00018**	**.00102**	**.00014**
Stddev	.00071	.00351	.00172	.00020	.00001
%RSD	179.26	12.130	953.26	19.518	6.3097
#1	-.00089	.02645	.00140	.00088	.00014
#2	.00011	.03141	-.00104	.00116	.00013
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**.02954**	**-.00004**	**-.0004**	**-.00015**
Stddev	.00006	.00257	.00010	.0283	.00009
%RSD	754.65	8.6928	252.75	6909.	58.229
#1	.00005	.03136	.00003	.0196	-.00009
#2	-.00003	.02773	-.00012	-.0204	-.00022
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00072**	F **.01004**	**.01250**	**.08181**	**.00040**
Stddev	.00006	.00058	.00206	.03486	.00126
%RSD	8.1628	5.7631	16.503	42.615	313.11
#1	.00068	.00963	.01104	.10646	.00129
#2	.00076	.01045	.01396	.05716	-.00049
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		.01000			
Low Limit		-.00400			

Sample Name: mb 480-368427/1-a Acquired: 7/25/2017 22:35:06 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00038**	**.00056**	**.00011**	**.14291**	**.00040**
Stddev	.00523	.00002	.00014	.00028	.00021
%RSD	1380.4	3.9104	124.15	.19831	52.613
#1	-.00408	.00057	.00021	.14311	.00025
#2	.00332	.00054	.00001	.14271	.00055
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00053**	**.01888**	**.00046**	**-.00155**	**.26052**
Stddev	.00092	.00054	.00204	.00287	.00566
%RSD	173.78	2.8779	446.38	185.03	2.1732
#1	-.00118	.01849	.00190	.00048	.25652
#2	.00012	.01926	-.00099	-.00358	.26452
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **.04535**	**.00038**	**.00088**	**-.00020**	**.00069**
Stddev	.00088	.00008	.00042	.00033	.00000
%RSD	1.9307	22.278	47.342	166.10	.11256
#1	.04473	.00044	.00118	-.00044	.00069
#2	.04597	.00032	.00059	.00004	.00069
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.01000				
Low Limit	-.01000				

Sample Name: mb 480-368427/1-a Acquired: 7/25/2017 22:35:06 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00704
Stddev	.00030
%RSD	4.2295
#1	.00725
#2	.00683
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3811.0	2432.8	17366.	3306.4
Stddev	5.6	1.4	61.	7.8
%RSD	.14639	.05816	.35372	.23554
#1	3807.1	2431.8	17323.	3311.9
#2	3815.0	2433.8	17410.	3300.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	101.63%	101.26%	100.33%	102.16%
Range				

Sample Name: lcssrm 480-368427/2- Acquired: 7/25/2017 22:38:34 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.52843	92.248	1.9359	.66546	3.6406
Stddev	.00023	.155	.0025	.00044	.0007
%RSD	.04347	.16764	.12982	.06563	.02007
#1	.52859	92.139	1.9341	.66515	3.6400
#2	.52827	92.358	1.9377	.66577	3.6411
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.94195	53.041	1.0626	1.409	2.0227
Stddev	.00421	.137	.0008	.016	.0007
%RSD	.44711	.25828	.08019	1.108	.03289
#1	.93897	52.944	1.0620	1.398	2.0222
#2	.94493	53.137	1.0632	1.421	2.0232
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.72524	.71009	137.80	27.513	.07086
Stddev	.00136	.00381	.16	.109	.00095
%RSD	.18739	.53599	.11426	.39585	1.3344
#1	.72427	.70740	137.69	27.436	.07019
#2	.72620	.71278	137.91	27.590	.07152
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
High Limit					
Low Limit					

Sample Name: lcssrm 480-368427/2- Acquired: 7/25/2017 22:38:34 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**28.019**	**3.8937**	**.57701**	**5.8329**	**1.8475**
Stddev	.032	.0050	.00044	.0096	.0001
%RSD	.11484	.12885	.07682	.16443	.00569
#1	27.996	3.8901	.57669	5.8261	1.8475
#2	28.041	3.8972	.57732	5.8396	1.8476
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.77108**	**1.3006**	**.72740**	**.94612**	**3.7517**
Stddev	.00176	.0013	.00112	.00400	.0126
%RSD	.22890	.09578	.15378	.42243	.33601
#1	.76983	1.3015	.72819	.94895	3.7428
#2	.77233	1.2997	.72661	.94330	3.7606
Check ?	Chk Pass	None	Chk Pass	Chk Pass	None
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.95724**	**1.3953**	**4.4994**	**1.5089**	**1.4498**
Stddev	.00031	.0047	.0050	.0010	.0022
%RSD	.03234	.33808	.11045	.06615	.15218
#1	.95745	1.3919	4.4958	1.5082	1.4482
#2	.95702	1.3986	4.5029	1.5096	1.4514
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: lcssrm 480-368427/2- Acquired: 7/25/2017 22:38:34 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**3.0058**
Stddev	.0075
%RSD	.24915
#1	3.0005
#2	3.0111
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3256.8**	**2722.0**	**19179.**	**3793.2**
Stddev	7.6	3.5	45.	11.9
%RSD	.23471	.12929	.23436	.31356
#1	3251.4	2719.5	19211.	3801.6
#2	3262.2	2724.5	19147.	3784.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	86.851%	113.30%	110.81%	117.20%
Range				

Sample Name: 480-121394-a-1-b Acquired: 7/25/2017 22:41:48 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00166**	**72.764**	**.17216**	**.09306**	**.75455**
Stddev	.00017	.813	.00003	.00051	.00552
%RSD	10.118	1.1167	.02024	.54547	.73189
#1	-.00177	73.338	.17213	.09342	.75845
#2	-.00154	72.189	.17218	.09270	.75064
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00736**	**247.28**	**.00522**	**.2699**	**.07124**
Stddev	.00004	2.05	.00003	.0251	.00002
%RSD	.60639	.82749	.65344	9.295	.03247
#1	.00739	248.73	.00519	.2521	.07123
#2	.00733	245.84	.00524	.2876	.07126
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.11345**	**.26170**	**230.49**	**12.396**	**.06593**
Stddev	.00013	.00284	1.96	.075	.00093
%RSD	.11322	1.0848	.84928	.60900	1.4105
#1	.11354	.25969	231.87	12.450	.06659
#2	.11336	.26371	229.10	12.343	.06528
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121394-a-1-b Acquired: 7/25/2017 22:41:48 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**35.313**	**3.4965**	**.01681**	**1.5730**	**.17124**
Stddev	.040	.0038	.00003	.0082	.00063
%RSD	.11308	.10816	.15173	.51937	.36662
#1	35.285	3.4938	.01682	1.5788	.17168
#2	35.342	3.4992	.01679	1.5672	.17079
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.8032**	**2.7184**	**.03467**	**.00066**	**3.2620**
Stddev	.0038	.0096	.00042	.00056	.0478
%RSD	.21119	.35469	1.2236	84.639	1.4648
#1	1.8059	2.7252	.03437	.00026	3.2958
#2	1.8005	2.7116	.03497	.00105	3.2282
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.2077**	**.52742**	**1.7965**	**-.00104**	**.21003**
Stddev	.0064	.00522	.0027	.00032	.00099
%RSD	.28934	.99001	.14987	30.817	.47118
#1	2.2122	.53111	1.7946	-.00081	.20933
#2	2.2032	.52373	1.7984	-.00126	.21073
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121394-a-1-b Acquired: 7/25/2017 22:41:48 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	1.7178
Stddev	.0032
%RSD	.18626
#1	1.7200
#2	1.7155
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3099.6	2533.0	17778.	3592.7
Stddev	1.3	1.5	2.	33.3
%RSD	.04145	.05771	.01039	.92814
#1	3098.7	2531.9	17777.	3569.1
#2	3100.5	2534.0	17779.	3616.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	82.659%	105.43%	102.71%	111.01%
Range				

Sample Name: 480-121394-a-2-b Acquired: 7/25/2017 22:45:10 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00146**	**88.662**	**.08432**	**.07143**	**.82334**
Stddev	.00020	.262	.00002	.00016	.00558
%RSD	13.422	.29595	.01781	.22267	.67773
#1	-.00160	88.477	.08433	.07154	.81939
#2	-.00132	88.848	.08431	.07131	.82728
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00615**	**179.82**	**.00303**	**.3311**	**.05922**
Stddev	.00001	.83	.00002	.0080	.00023
%RSD	.16658	.46100	.72262	2.405	.39532
#1	.00614	179.23	.00304	.3255	.05905
#2	.00616	180.40	.00301	.3367	.05938
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.14305**	**.20180**	**132.46**	**14.691**	**.09075**
Stddev	.00040	.00299	.65	.119	.00139
%RSD	.27827	1.4796	.48976	.80840	1.5268
#1	.14334	.19968	132.00	14.607	.08977
#2	.14277	.20391	132.92	14.775	.09173
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121394-a-2-b Acquired: 7/25/2017 22:45:10 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**49.307**	**3.6925**	**.01314**	**1.1507**	**.14503**
Stddev	.271	.0204	.00010	.0114	.00089
%RSD	.55032	.55163	.78836	.99299	.61106
#1	49.116	3.6781	.01307	1.1426	.14441
#2	49.499	3.7069	.01322	1.1588	.14566
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0779**	**2.1574**	**.00473**	**.00273**	**3.9582**
Stddev	.0004	.0055	.00249	.00204	.0159
%RSD	.03903	.25692	52.800	74.698	.40035
#1	1.0782	2.1613	.00649	.00418	3.9470
#2	1.0776	2.1534	.00296	.00129	3.9694
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.09654**	**.33547**	**2.0372**	**-.00097**	**.24725**
Stddev	.00004	.00131	.0047	.00132	.00071
%RSD	.04579	.39061	.23241	135.61	.28768
#1	.09651	.33455	2.0338	-.00191	.24675
#2	.09657	.33640	2.0405	-.00004	.24775
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121394-a-2-b Acquired: 7/25/2017 22:45:10 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**1.1356**
Stddev	.0059
%RSD	.51651
#1	1.1315
#2	1.1398
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3162.2**	**2550.3**	**17960.**	**3601.2**
Stddev	1.5	1.4	31.	11.6
%RSD	.04733	.05347	.17517	.32295
#1	3163.3	2549.4	17938.	3609.4
#2	3161.2	2551.3	17982.	3593.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	84.329%	106.15%	103.77%	111.27%
Range				

Sample Name: 480-121394-a-2-bSD@5 Acquired: 7/25/2017 22:48:34 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00029**	**19.172**	**.01715**	**.01716**	**.17974**
Stddev	.00018	.093	.00033	.00002	.00104
%RSD	62.038	.48690	1.8968	.09804	.57602
#1	.00042	19.238	.01692	.01717	.18047
#2	.00017	19.106	.01738	.01715	.17901
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00128**	**39.415**	**.00057**	**.0615**	**.01154**
Stddev	.00003	.222	.00009	.0194	.00013
%RSD	2.0643	.56299	15.387	31.59	1.1327
#1	.00127	39.572	.00051	.0752	.01145
#2	.00130	39.258	.00064	.0477	.01163
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.03168**	**.04032**	**29.111**	**3.1843**	**.02046**
Stddev	.00059	.00098	.244	.0697	.00055
%RSD	1.8726	2.4393	.83651	2.1898	2.6797
#1	.03210	.04101	29.283	3.2336	.02007
#2	.03126	.03962	28.938	3.1350	.02085
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121394-a-2-bSD@5 Acquired: 7/25/2017 22:48:34 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**11.012**	**.81868**	**.00271**	**.28989**	**.02892**
Stddev	.078	.00514	.00026	.01412	.00031
%RSD	.70456	.62834	9.7490	4.8715	1.0570
#1	11.067	.82232	.00290	.27990	.02871
#2	10.957	.81505	.00253	.29988	.02914
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21601**	**.46824**	**.00188**	**-.00247**	**.84521**
Stddev	.00103	.00170	.00071	.00175	.03066
%RSD	.47794	.36277	37.876	70.835	3.6272
#1	.21674	.46944	.00239	-.00371	.86688
#2	.21528	.46704	.00138	-.00123	.82353
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01849**	**.07362**	**.44484**	**.00047**	**.05417**
Stddev	.00018	.00005	.00127	.00019	.00050
%RSD	.94698	.07215	.28598	40.169	.91522
#1	.01837	.07366	.44574	.00034	.05452
#2	.01861	.07358	.44394	.00060	.05382
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121394-a-2-bSD@5 Acquired: 7/25/2017 22:48:34 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.26112
Stddev	.00303
%RSD	1.1606
#1	.26326
#2	.25897
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3550.2	2465.9	17315.	3336.5
Stddev	7.9	4.8	121.	21.1
%RSD	.22298	.19401	.69924	.63340
#1	3544.6	2462.5	17230.	3321.6
#2	3555.8	2469.3	17401.	3351.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	94.675%	102.64%	100.04%	103.09%
Range				

Sample Name: 480-121394-a-2-b PDS Acquired: 7/25/2017 22:51:58 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.09155**	**104.95**	**.44359**	**.40530**	**1.1664**
Stddev	.00047	.25	.00016	.00052	.0007
%RSD	.51265	.23844	.03699	.12782	.06027
#1	.09122	105.13	.44371	.40494	1.1669
#2	.09188	104.78	.44347	.40567	1.1659
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.35107**	**194.45**	**.36122**	**.3313**	**.44545**
Stddev	.00082	.16	.00013	.0054	.00118
%RSD	.23364	.08351	.03468	1.632	.26484
#1	.35165	194.56	.36114	.3351	.44629
#2	.35049	194.33	.36131	.3275	.44462
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51651**	**.54980**	**147.24**	**31.806**	**.44955**
Stddev	.00520	.00528	.00	.017	.00036
%RSD	1.0061	.96055	.00197	.05424	.08116
#1	.52018	.55354	147.24	31.794	.44981
#2	.51283	.54607	147.24	31.818	.44930
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121394-a-2-b PDS Acquired: 7/25/2017 22:51:58 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**66.693**	**3.9975**	**.36586**	**18.554**	**.53196**
Stddev	.448	.0262	.00016	.016	.00136
%RSD	.67099	.65671	.04356	.08429	.25500
#1	67.009	4.0161	.36575	18.565	.53292
#2	66.376	3.9789	.36598	18.543	.53100
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.4756**	**10.498**	**.36262**	**.36502**	**12.921**
Stddev	.0059	.001	.00070	.00196	.012
%RSD	.39796	.01140	.19329	.53700	.09388
#1	1.4797	10.499	.36212	.36640	12.929
#2	1.4714	10.498	.36311	.36363	12.912
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.29877**	**.68874**	**2.3794**	**.39140**	**.62053**
Stddev	.00156	.00037	.0179	.00144	.00434
%RSD	.52098	.05345	.75204	.36903	.69934
#1	.29987	.68848	2.3920	.39038	.62360
#2	.29767	.68900	2.3667	.39242	.61746
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121394-a-2-b PDS Acquired: 7/25/2017 22:51:58 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	1.4862
Stddev	.0080
%RSD	.53841
#1	1.4919
#2	1.4806
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3076.8	2521.6	17683.	3561.1
Stddev	5.0	2.5	135.	16.4
%RSD	.16297	.10050	.76302	.46120
#1	3073.2	2519.8	17587.	3549.5
#2	3080.3	2523.4	17778.	3572.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	82.050%	104.96%	102.16%	110.03%
Range				

Sample Name: 480-121394-a-2-c ms Acquired: 7/25/2017 22:55:16 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.09318	156.05	.43955	.48534	1.3391
Stddev	.00069	.13	.00158	.00127	.0020
%RSD	.74143	.08634	.35998	.26100	.14792
#1	.09269	155.95	.44067	.48623	1.3405
#2	.09367	156.14	.43843	.48444	1.3377
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.35502	166.45	.36763	.3337	.45783
Stddev	.00096	.08	.00022	.0494	.00083
%RSD	.27113	.05025	.06066	14.81	.18174
#1	.35570	166.51	.36779	.3686	.45842
#2	.35434	166.39	.36748	.2987	.45724
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.56782	.54752	140.67	46.878	.47825
Stddev	.00254	.00172	.02	.169	.00060
%RSD	.44723	.31456	.01649	.36111	.12494
#1	.56603	.54874	140.65	46.998	.47867
#2	.56962	.54630	140.69	46.759	.47783
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121394-a-2-c ms Acquired: 7/25/2017 22:55:16 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**67.343**	**4.4453**	**.37000**	**19.566**	**.55141**
Stddev	.202	.0065	.00079	.038	.00084
%RSD	.30028	.14693	.21464	.19534	.15175
#1	67.200	4.4407	.37056	19.593	.55200
#2	67.486	4.4499	.36944	19.539	.55082
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.2739**	**19.749**	**.28828**	**.36278**	**14.329**
Stddev	.0031	.042	.00002	.00084	.003
%RSD	.24139	.21417	.00754	.23031	.02180
#1	1.2761	19.779	.28826	.36337	14.327
#2	1.2717	19.719	.28829	.36219	14.331
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49751**	**.71659**	**3.9592**	**.40080**	**.71547**
Stddev	.00056	.00115	.0174	.00041	.00370
%RSD	.11299	.16108	.43874	.10352	.51723
#1	.49711	.71741	3.9469	.40109	.71285
#2	.49791	.71577	3.9715	.40050	.71809
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121394-a-2-c ms Acquired: 7/25/2017 22:55:16 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	1.3765
Stddev	.0084
%RSD	.60816
#1	1.3705
#2	1.3824
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3065.0	2532.8	17655.	3589.9
Stddev	7.5	5.6	16.	1.6
%RSD	.24451	.22264	.08786	.04512
#1	3059.7	2528.8	17666.	3591.0
#2	3070.3	2536.8	17644.	3588.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	81.736%	105.42%	102.00%	110.92%
Range				

Sample Name: 480-121394-a-2-d msd Acquired: 7/25/2017 22:58:34 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.09125	159.88	.44547	.52247	1.3633
Stddev	.00060	.15	.00263	.00173	.0019
%RSD	.65617	.09181	.59034	.33131	.13647
#1	.09083	159.98	.44733	.52125	1.3620
#2	.09168	159.78	.44361	.52370	1.3646
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.34777	205.13	.35844	.3691	.45825
Stddev	.00158	.28	.00016	.0115	.00070
%RSD	.45510	.13794	.04510	3.112	.15285
#1	.34665	204.93	.35833	.3610	.45874
#2	.34888	205.33	.35856	.3772	.45775
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.58801	.57609	147.53	51.188	.47078
Stddev	.00247	.00022	.01	.131	.00064
%RSD	.41983	.03848	.00658	.25524	.13573
#1	.58626	.57625	147.53	51.095	.47033
#2	.58975	.57594	147.52	51.280	.47123
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121394-a-2-d msd Acquired: 7/25/2017 22:58:34 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**96.752**	**6.0859**	**.36199**	**19.244**	**.56168**
Stddev	.115	.0094	.00061	.014	.00082
%RSD	.11915	.15474	.16798	.07051	.14521
#1	96.670	6.0793	.36156	19.253	.56225
#2	96.833	6.0926	.36242	19.234	.56110
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.2664**	**19.604**	**.27329**	**.35697**	**12.655**
Stddev	.0023	.046	.00168	.00310	.001
%RSD	.18169	.23598	.61642	.86762	.00705
#1	1.2648	19.571	.27210	.35478	12.655
#2	1.2680	19.637	.27448	.35916	12.654
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51160**	**.68667**	**3.9265**	**.39508**	**.75054**
Stddev	.00049	.00099	.0124	.00134	.00401
%RSD	.09501	.14430	.31634	.33920	.53434
#1	.51125	.68737	3.9177	.39413	.74770
#2	.51194	.68597	3.9353	.39603	.75337
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121394-a-2-d msd Acquired: 7/25/2017 22:58:34 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**1.4684**
Stddev	.0089
%RSD	.60796
#1	1.4621
#2	1.4747
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3005.3**	**2557.4**	**17820.**	**3609.1**
Stddev	2.9	2.9	26.	26.4
%RSD	.09599	.11475	.14688	.73238
#1	3003.2	2555.3	17838.	3627.8
#2	3007.3	2559.5	17801.	3590.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	80.144%	106.45%	102.95%	111.52%
Range				

Sample Name: 480-121394-a-3-b Acquired: 7/25/2017 23:01:51 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00053**	**20.525**	**.10310**	**.04711**	**.67076**
Stddev	.00016	.014	.00017	.00010	.00114
%RSD	29.439	.06627	.16018	.20770	.17062
#1	-.00065	20.534	.10298	.04704	.67157
#2	-.00042	20.515	.10321	.04717	.66995
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00579**	**24.489**	**.00307**	**.1044**	**.03367**
Stddev	.00000	.008	.00011	.0552	.00010
%RSD	.06711	.03268	3.5854	52.92	.29126
#1	.00579	24.483	.00315	.0653	.03374
#2	.00579	24.494	.00299	.1434	.03360
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.09940**	**.99353**	**178.42**	**3.4615**	**.02275**
Stddev	.00035	.01001	.27	.0231	.00126
%RSD	.35536	1.0072	.15364	.66830	5.5300
#1	.09915	1.0006	178.22	3.4779	.02186
#2	.09965	.98645	178.61	3.4452	.02364
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121394-a-3-b Acquired: 7/25/2017 23:01:51 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.4185**	**1.6318**	**.01121**	**.59655**	**.11734**
Stddev	.0180	.0045	.00001	.00299	.00045
%RSD	.33251	.27375	.11967	.50189	.37936
#1	5.4313	1.6350	.01122	.59443	.11765
#2	5.4058	1.6287	.01120	.59867	.11702
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**3.6590**	**6.4319**	**.15590**	**.00993**	**2.8170**
Stddev	.0036	.0088	.00038	.00111	.0351
%RSD	.09915	.13609	.24363	11.137	1.2466
#1	3.6564	6.4381	.15564	.01071	2.8418
#2	3.6616	6.4257	.15617	.00915	2.7921
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.23698**	**.31719**	**.89681**	**-.00018**	**.07879**
Stddev	.00040	.00066	.00428	.00178	.00029
%RSD	.16755	.20753	.47710	977.21	.36182
#1	.23669	.31765	.89983	.00108	.07899
#2	.23726	.31672	.89378	-.00144	.07859
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121394-a-3-b Acquired: 7/25/2017 23:01:51 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**1.1834**
Stddev	.0010
%RSD	.08857
#1	1.1842
#2	1.1827
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3634.0**	**2594.4**	**18187.**	**3513.8**
Stddev	5.9	2.1	11.	22.5
%RSD	.16349	.07902	.06248	.64041
#1	3638.2	2595.9	18195.	3529.7
#2	3629.8	2593.0	18179.	3497.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	96.911%	107.99%	105.08%	108.57%
Range				

Sample Name: CCV-4147885 Acquired: 7/25/2017 23:05:16 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.52692**	**24.803**	**.51719**	**.50123**	**.48460**
Stddev	.00085	.067	.00002	.00037	.00129
%RSD	.16089	.26866	.00432	.07360	.26658
#1	.52752	24.850	.51721	.50149	.48368
#2	.52632	24.756	.51718	.50097	.48551
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.48772**	**24.645**	**.50090**	**-.0146**	**.49815**
Stddev	.00027	.068	.00079	.0291	.00034
%RSD	.05582	.27568	.15721	198.6	.06826
#1	.48753	24.693	.50034	.0059	.49839
#2	.48791	24.597	.50145	-.0352	.49791
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.54442**	**.48246**	**23.345**	**24.326**	**.50173**
Stddev	.00106	.00248	.087	.015	.00120
%RSD	.19507	.51449	.37076	.06241	.23832
#1	.54517	.48071	23.406	24.336	.50257
#2	.54367	.48422	23.284	24.315	.50088
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4147885 Acquired: 7/25/2017 23:05:16 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.232**	**.51136**	**.51449**	**24.672**	**.50155**
Stddev	.062	.00015	.00030	.027	.00115
%RSD	.24607	.02938	.05880	.11139	.22963
#1	25.276	.51146	.51427	24.652	.50236
#2	25.188	.51125	.51470	24.691	.50073
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50541**	**24.817**	**.49491**	**.50909**	**23.887**
Stddev	.00062	.037	.00017	.00533	.009
%RSD	.12326	.15066	.03388	1.0478	.03557
#1	.50497	24.791	.49503	.50532	23.881
#2	.50585	24.844	.49479	.51286	23.893
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51015**	**.49931**	**.52328**	**.51669**	**.52883**
Stddev	.00032	.00097	.00194	.00261	.00324
%RSD	.06334	.19395	.37050	.50430	.61297
#1	.50992	.49862	.52191	.51853	.53112
#2	.51037	.49999	.52465	.51484	.52653
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4147885 Acquired: 7/25/2017 23:05:16 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.53018
Stddev	.00150
%RSD	.28234
#1	.53124
#2	.52912
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3459.5	2412.4	16861.	3271.6
Stddev	.8	3.6	53.	5.4
%RSD	.02327	.14967	.31200	.16510
#1	3458.9	2414.9	16899.	3267.8
#2	3460.1	2409.8	16824.	3275.4

Sample Name: CCB-4130963 Acquired: 7/25/2017 23:08:29 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00006**	**.02118**	**.00035**	**.00090**	**.00014**
Stddev	.00114	.01982	.00051	.00004	.00001
%RSD	2015.9	93.610	144.63	4.5801	5.9364
#1	.00086	.03519	.00071	.00092	.00014
#2	-.00075	.00716	-.00001	.00087	.00013
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**.01000**	**-.00017**	**.0012**	**.00008**
Stddev	.00005	.00265	.00000	.0060	.00012
%RSD	153.84	26.512	2.1138	487.8	145.34
#1	.00007	.01187	-.00018	-.0030	-.00000
#2	-.00000	.00812	-.00017	.0054	.00017
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00002**	**-.00000**	**.01768**	**.05027**	**.00121**
Stddev	.00004	.00027	.00147	.03144	.00038
%RSD	200.76	13573.	8.3010	62.541	31.167
#1	.00001	.00019	.01872	.02804	.00148
#2	-.00005	-.00019	.01665	.07250	.00095
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4130963 Acquired: 7/25/2017 23:08:29 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00161**	**.00048**	**.00028**	**.04022**	**.00039**
Stddev	.01184	.00002	.00019	.00546	.00004
%RSD	736.23	4.6585	68.355	13.584	11.268
#1	.00677	.00050	.00015	.04408	.00036
#2	-.00998	.00047	.00042	.03635	.00043
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00069**	**.00346**	**.00073**	**-.00181**	**.01961**
Stddev	.00008	.00034	.00105	.00078	.01575
%RSD	11.003	9.9755	144.33	43.251	80.319
#1	-.00074	.00370	.00147	-.00125	.03075
#2	-.00063	.00321	-.00002	-.00236	.00847
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00076**	**.00007**	**.00066**	**.00084**	**-.00057**
Stddev	.00018	.00006	.00035	.00044	.00021
%RSD	24.183	85.792	53.658	52.125	36.189
#1	-.00088	.00003	.00091	.00115	-.00072
#2	-.00063	.00011	.00041	.00053	-.00043
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4130963 Acquired: 7/25/2017 23:08:29 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.00096
Stddev	.00077
%RSD	80.232
#1	.00041
#2	.00150
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3794.7	2445.9	17308.	3236.1
Stddev	4.9	1.1	26.	5.9
%RSD	.12935	.04372	.14962	.18136
#1	3791.2	2445.1	17290.	3231.9
#2	3798.1	2446.6	17326.	3240.2

Sample Name: CCVL-4147888 Acquired: 7/25/2017 23:11:57 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00638**	**.21222**	**.01526**	**.01972**	**.00210**
Stddev	.00073	.01803	.00014	.00003	.00003
%RSD	11.440	8.4975	.89289	.14851	1.6321
#1	.00586	.22497	.01517	.01974	.00212
#2	.00689	.19947	.01536	.01970	.00207
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00199**	**.50011**	**.00193**	**-.0120**	**.00388**
Stddev	.00000	.00039	.00010	.0266	.00008
%RSD	.22189	.07702	5.2581	221.5	2.1812
#1	.00199	.50038	.00186	-.0308	.00394
#2	.00200	.49983	.00200	.0068	.00382
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00428**	**.01067**	**.05718**	**.54846**	**.03213**
Stddev	.00022	.00056	.00032	.01355	.00041
%RSD	5.2239	5.2776	.56272	2.4700	1.2777
#1	.00444	.01027	.05695	.53888	.03242
#2	.00412	.01107	.05740	.55804	.03184
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4147888 Acquired: 7/25/2017 23:11:57 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20006**	**.00317**	**.01023**	**1.0252**	**.01001**
Stddev	.00122	.00011	.00000	.0060	.00032
%RSD	.61057	3.3632	.00831	.58484	3.1843
#1	.20092	.00324	.01023	1.0210	.00978
#2	.19920	.00309	.01023	1.0294	.01023
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00889**	**.19515**	**.01875**	**.02495**	**.50088**
Stddev	.00054	.00118	.00010	.00310	.01470
%RSD	6.0528	.60543	.52831	12.424	2.9355
#1	.00851	.19598	.01882	.02714	.51128
#2	.00927	.19431	.01868	.02276	.49049
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00896**	**.00504**	**.00511**	**.02145**	**.00548**
Stddev	.00006	.00000	.00088	.00033	.00014
%RSD	.72160	.05337	17.228	1.5523	2.5566
#1	.00900	.00504	.00573	.02122	.00558
#2	.00891	.00504	.00449	.02169	.00538
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4147888 Acquired: 7/25/2017 23:11:57 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.01193
Stddev	.00031
%RSD	2.6090
#1	.01171
#2	.01215
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3811.8	2464.8	17368.	3272.3
Stddev	2.5	1.5	169.	11.0
%RSD	.06482	.05945	.97451	.33685
#1	3810.0	2465.8	17249.	3264.5
#2	3813.5	2463.7	17488.	3280.1

Sample Name: 480-121394-a-4-b Acquired: 7/25/2017 23:15:24 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00208**	**48.614**	**.12838**	**.12821**	**.62796**
Stddev	.00031	.215	.00134	.00051	.00401
%RSD	15.066	.44243	1.0435	.39513	.63882
#1	-.00186	48.462	.12743	.12785	.63079
#2	-.00230	48.766	.12932	.12857	.62512
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00575**	**404.40**	**.00316**	**.2416**	**.04151**
Stddev	.00005	1.25	.00015	.0105	.00021
%RSD	.91103	.31011	4.7753	4.344	.50260
#1	.00571	403.51	.00306	.2490	.04166
#2	.00578	405.29	.00327	.2342	.04137
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.12967**	**.34496**	**127.13**	**11.550**	**.04800**
Stddev	.00003	.00130	.84	.078	.00081
%RSD	.02095	.37550	.66442	.67279	1.6878
#1	.12969	.34588	126.53	11.495	.04743
#2	.12965	.34405	127.73	11.605	.04857
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121394-a-4-b Acquired: 7/25/2017 23:15:24 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**182.96**	**3.6307**	**.01333**	**1.2254**	**.12740**
Stddev	.06	.0051	.00013	.0032	.00091
%RSD	.03228	.14093	.95024	.26474	.71807
#1	183.00	3.6343	.01342	1.2231	.12805
#2	182.91	3.6271	.01324	1.2277	.12675
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0540**	**10.084**	**.02561**	**-.00001**	**12.200**
Stddev	.0020	.017	.00045	.00085	.015
%RSD	.19383	.16922	1.7518	8613.8	.12473
#1	1.0526	10.072	.02593	.00059	12.189
#2	1.0554	10.096	.02529	-.00061	12.211
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.10681**	**.41985**	**1.3172**	**.00062**	**.11174**
Stddev	.00025	.00159	.0067	.00118	.00121
%RSD	.23623	.37913	.50815	188.96	1.0820
#1	.10664	.41872	1.3219	.00146	.11260
#2	.10699	.42098	1.3124	-.00021	.11089
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121394-a-4-b Acquired: 7/25/2017 23:15:24 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.72032
Stddev	.00291
%RSD	.40375
#1	.72238
#2	.71827
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2967.5	2434.4	17173.	3556.7
Stddev	6.8	1.8	54.	1.8
%RSD	.22876	.07213	.31567	.05150
#1	2962.7	2433.1	17135.	3558.0
#2	2972.3	2435.6	17211.	3555.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	79.136%	101.32%	99.217%	109.90%
Range				

Sample Name: 480-121394-a-5-a Acquired: 7/25/2017 23:18:53 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00119**	**40.389**	**.35631**	**.06804**	**.80459**
Stddev	.00043	.121	.00078	.00006	.00013
%RSD	35.701	.29979	.22012	.08213	.01595
#1	-.00089	40.474	.35687	.06800	.80450
#2	-.00150	40.303	.35576	.06808	.80468
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00618**	**202.05**	**.00376**	**.1464**	**.04456**
Stddev	.00002	.33	.00010	.0016	.00013
%RSD	.25426	.16156	2.6099	1.103	.28427
#1	.00619	202.28	.00369	.1476	.04447
#2	.00617	201.82	.00383	.1453	.04465
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.15583**	**.63656**	**172.31**	**5.2155**	**.04533**
Stddev	.00142	.00147	.38	.0153	.00137
%RSD	.90822	.23065	.22320	.29415	3.0136
#1	.15483	.63760	172.04	5.2263	.04630
#2	.15683	.63553	172.58	5.2046	.04436
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121394-a-5-a Acquired: 7/25/2017 23:18:53 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**35.078**	**1.8469**	**.01165**	**1.2707**	**.14853**
Stddev	.096	.0044	.00006	.0104	.00054
%RSD	.27244	.23957	.51252	.81905	.36309
#1	35.145	1.8500	.01169	1.2781	.14815
#2	35.010	1.8438	.01161	1.2633	.14891
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.7106**	**7.3673**	**.08374**	**.00608**	**4.3884**
Stddev	.0044	.0043	.00045	.00263	.0033
%RSD	.16171	.05906	.53801	43.283	.07445
#1	2.7075	7.3643	.08342	.00794	4.3907
#2	2.7137	7.3704	.08405	.00422	4.3861
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20884**	**.88167**	**1.4926**	**.00004**	**.16426**
Stddev	.00099	.00387	.0024	.00095	.00014
%RSD	.47238	.43919	.15976	2280.2	.08571
#1	.20814	.88441	1.4943	-.00063	.16436
#2	.20954	.87893	1.4909	.00072	.16416
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121394-a-5-a Acquired: 7/25/2017 23:18:53 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**1.3457**
Stddev	.0039
%RSD	.28709
#1	1.3484
#2	1.3429
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3244.7**	**2513.9**	**17641.**	**3522.4**
Stddev	4.9	3.2	44.	8.9
%RSD	.15045	.12872	.24837	.25234
#1	3248.2	2516.2	17610.	3516.1
#2	3241.2	2511.6	17672.	3528.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	86.528%	104.63%	101.92%	108.84%
Range				

Sample Name: 480-121394-a-6-a Acquired: 7/25/2017 23:22:17 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00133**	**16.553**	**.08202**	**.03947**	**.81052**
Stddev	.00036	.120	.00156	.00021	.00448
%RSD	26.838	.72618	1.9018	.52420	.55225
#1	-.00159	16.468	.08313	.03962	.80736
#2	-.00108	16.638	.08092	.03933	.81369
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00551**	**66.288**	**.00320**	**.0960**	**.03010**
Stddev	.00005	.385	.00003	.0036	.00032
%RSD	.83898	.58135	1.0323	3.768	1.0782
#1	.00548	66.016	.00322	.0985	.02987
#2	.00555	66.561	.00317	.0934	.03033
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.07766**	**.54971**	**172.35**	**2.9479**	**.01919**
Stddev	.00141	.00214	1.33	.0269	.00210
%RSD	1.8216	.38868	.77003	.91186	10.934
#1	.07666	.54820	171.41	2.9289	.02067
#2	.07866	.55123	173.28	2.9669	.01770
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121394-a-6-a Acquired: 7/25/2017 23:22:17 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**19.008**	**2.5208**	**.00752**	**1.0828**	**.17156**
Stddev	.051	.0088	.00004	.0085	.00011
%RSD	.26783	.35008	.53917	.78732	.06181
#1	18.972	2.5145	.00755	1.0768	.17149
#2	19.044	2.5270	.00749	1.0889	.17164
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.4533**	**5.5269**	**.03627**	**.00671**	**3.8150**
Stddev	.0039	.0056	.00010	.00419	.0372
%RSD	.26516	.10106	.27118	62.453	.97435
#1	1.4561	5.5308	.03634	.00374	3.8413
#2	1.4506	5.5229	.03621	.00967	3.7887
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.10068**	**.44462**	**1.1156**	**-.00286**	**.07445**
Stddev	.00037	.00194	.0023	.00219	.00056
%RSD	.37170	.43638	.20736	76.649	.75170
#1	.10094	.44325	1.1140	-.00131	.07405
#2	.10041	.44599	1.1172	-.00441	.07484
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121394-a-6-a Acquired: 7/25/2017 23:22:17 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.67710**
Stddev	.00178
%RSD	.26340
#1	.67836
#2	.67583
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3468.0**	**2503.8**	**17685.**	**3441.9**
Stddev	4.2	3.8	36.	24.2
%RSD	.12041	.14989	.20336	.70385
#1	3470.9	2506.4	17659.	3459.0
#2	3465.0	2501.1	17710.	3424.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.483%	104.21%	102.17%	106.35%
Range				

Sample Name: 480-121394-a-7-a Acquired: 7/25/2017 23:25:41 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00033**	**22.154**	**.12104**	**.04738**	**.84276**
Stddev	.00056	.013	.00022	.00010	.00216
%RSD	169.07	.05687	.18214	.20201	.25578
#1	.00006	22.163	.12120	.04745	.84428
#2	-.00073	22.145	.12088	.04731	.84124
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00369**	**147.43**	**.00460**	**.0818**	**.03159**
Stddev	.00005	.81	.00001	.0176	.00003
%RSD	1.4644	.54921	.26704	21.50	.09547
#1	.00373	148.00	.00461	.0942	.03161
#2	.00365	146.86	.00459	.0693	.03156
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.36005**	**.62882**	**175.05**	**4.5605**	**.02165**
Stddev	.00218	.00150	.81	.0760	.00026
%RSD	.60685	.23810	.46367	1.6666	1.1806
#1	.36160	.62776	175.62	4.6142	.02183
#2	.35851	.62988	174.47	4.5068	.02147
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121394-a-7-a Acquired: 7/25/2017 23:25:41 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**20.306**	**2.2965**	**.02235**	**.65352**	**.18462**
Stddev	.063	.0051	.00001	.00670	.00001
%RSD	.31039	.22231	.03192	1.0247	.00277
#1	20.351	2.3001	.02235	.64879	.18463
#2	20.262	2.2929	.02236	.65826	.18462
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.9220**	**4.7554**	**.06136**	**.00285**	**3.8282**
Stddev	.0024	.0136	.00050	.00228	.0430
%RSD	.12248	.28683	.80895	79.983	1.1229
#1	1.9237	4.7458	.06171	.00447	3.8586
#2	1.9204	4.7650	.06100	.00124	3.7978
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.16292**	**.42059**	**.77213**	**.00003**	**.07556**
Stddev	.00111	.00100	.00273	.00085	.00045
%RSD	.68125	.23686	.35364	2851.9	.59964
#1	.16370	.42130	.77406	.00063	.07524
#2	.16213	.41989	.77020	-.00057	.07588
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121394-a-7-a Acquired: 7/25/2017 23:25:41 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**1.3136**
Stddev	.0040
%RSD	.30378
#1	1.3164
#2	1.3108
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3370.8**	**2493.4**	**17538.**	**3433.9**
Stddev	8.8	10.2	70.	8.5
%RSD	.26081	.40833	.39878	.24889
#1	3377.1	2500.6	17488.	3427.8
#2	3364.6	2486.2	17587.	3439.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.892%	103.78%	101.33%	106.10%
Range				

Sample Name: 480-121394-a-8-b Acquired: 7/25/2017 23:29:04 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00154**	**25.884**	**.15929**	**.05949**	**2.1907**
Stddev	.00046	.038	.00368	.00019	.0088
%RSD	29.544	.14508	2.3098	.31222	.40111
#1	-.00122	25.910	.16189	.05935	2.1969
#2	-.00186	25.857	.15669	.05962	2.1845
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00498**	**191.65**	**.00441**	**.0456**	**.08831**
Stddev	.00012	.66	.00008	.0151	.00008
%RSD	2.3623	.34286	1.9047	33.15	.08790
#1	.00490	192.11	.00435	.0563	.08826
#2	.00506	191.18	.00447	.0349	.08837
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.16190**	**.77124**	**366.53**	**5.5458**	**.02695**
Stddev	.00044	.00410	1.43	.0880	.00060
%RSD	.27047	.53217	.38968	1.5874	2.2260
#1	.16221	.76834	367.54	5.6080	.02653
#2	.16159	.77414	365.52	5.4835	.02738
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121394-a-8-b Acquired: 7/25/2017 23:29:04 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576-2	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}2	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**37.370**	**18.414**	**.01874**	**1.2723**	**.14709**
Stddev	.172	.087	.00016	.0079	.00044
%RSD	.46104	.47466	.85362	.61825	.29983
#1	37.248	18.352	.01886	1.2779	.14678
#2	37.492	18.476	.01863	1.2668	.14741
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.1795**	**6.9775**	**.10785**	**.00392**	**6.0687**
Stddev	.0031	.0108	.00189	.00080	.0658
%RSD	.14331	.15447	1.7561	20.452	1.0849
#1	2.1773	6.9699	.10919	.00449	6.1152
#2	2.1817	6.9852	.10651	.00335	6.0221
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.18100**	**1.0347**	**1.1127**	**-.00264**	**.10125**
Stddev	.00041	.0029	.0015	.00189	.00097
%RSD	.22438	.28286	.13264	71.568	.95573
#1	.18129	1.0368	1.1137	-.00130	.10194
#2	.18071	1.0326	1.1116	-.00398	.10057
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121394-a-8-b Acquired: 7/25/2017 23:29:04 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**1.4163**
Stddev	.0019
%RSD	.13440
#1	1.4150
#2	1.4177
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3158.6**	**2409.7**	**17096.**	**3411.4**
Stddev	2.4	2.8	29.	19.7
%RSD	.07560	.11577	.17254	.57733
#1	3156.9	2407.7	17117.	3397.5
#2	3160.3	2411.7	17075.	3425.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	84.232%	100.30%	98.772%	105.41%
Range				

Sample Name: 480-121394-a-9-a Acquired: 7/25/2017 23:32:40 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00096**	**17.812**	**.09256**	**.04010**	**.69787**
Stddev	.00047	.004	.00085	.00004	.00064
%RSD	48.804	.02052	.92097	.09588	.09190
#1	-.00130	17.810	.09316	.04007	.69742
#2	-.00063	17.815	.09196	.04013	.69833
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00306**	**170.51**	**.00273**	**.0715**	**.02133**
Stddev	.00007	.91	.00007	.0119	.00014
%RSD	2.1705	.53596	2.6138	16.71	.67351
#1	.00311	169.87	.00278	.0630	.02123
#2	.00302	171.16	.00268	.0799	.02143
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.10566**	**.35009**	**115.69**	**5.1337**	**.01883**
Stddev	.00073	.00229	.63	.0805	.00081
%RSD	.68941	.65444	.54160	1.5690	4.3062
#1	.10617	.34847	115.25	5.0767	.01940
#2	.10514	.35171	116.14	5.1906	.01826
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121394-a-9-a Acquired: 7/25/2017 23:32:40 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**35.372**	**1.7752**	**.00753**	**.76315**	**.07487**
Stddev	.217	.0095	.00002	.00328	.00005
%RSD	.61283	.53282	.19982	.43018	.07258
#1	35.526	1.7818	.00752	.76083	.07490
#2	35.219	1.7685	.00754	.76547	.07483
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.2805**	**3.3013**	**.05861**	**.00171**	**5.4940**
Stddev	.0004	.0050	.00161	.00284	.0580
%RSD	.02766	.15032	2.7474	165.59	1.0561
#1	1.2803	3.3048	.05975	.00372	5.5350
#2	1.2808	3.2978	.05747	-.00029	5.4530
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.09919**	**.30434**	**1.7148**	**-.00017**	**.09187**
Stddev	.00068	.00083	.0088	.00147	.00089
%RSD	.68438	.27361	.51480	866.06	.96714
#1	.09871	.30375	1.7211	-.00121	.09249
#2	.09967	.30493	1.7086	.00087	.09124
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121394-a-9-a Acquired: 7/25/2017 23:32:40 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.76911
Stddev	.00753
%RSD	.97970
#1	.77444
#2	.76379
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3355.8	2469.5	17371.	3424.7
Stddev	4.0	3.4	107.	30.0
%RSD	.11930	.13668	.61505	.87494
#1	3358.6	2471.9	17296.	3445.9
#2	3352.9	2467.1	17447.	3403.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.490%	102.79%	100.36%	105.82%
Range				

Sample Name: 480-121394-a-10-a Acquired: 7/25/2017 23:36:05 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00127**	**23.307**	**.09336**	**.05656**	**.61460**
Stddev	.00044	.084	.00113	.00007	.00341
%RSD	34.906	.36101	1.2085	.12222	.55411
#1	-.00158	23.366	.09416	.05652	.61219
#2	-.00096	23.247	.09256	.05661	.61701
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00363**	**193.21**	**.00268**	**.1036**	**.03103**
Stddev	.00005	.26	.00007	.0281	.00011
%RSD	1.3202	.13395	2.5852	27.14	.36335
#1	.00360	193.39	.00263	.1235	.03111
#2	.00366	193.03	.00273	.0837	.03096
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.15835**	**.71355**	**223.94**	**6.1038**	**.02648**
Stddev	.00102	.00377	.08	.0280	.00277
%RSD	.64504	.52890	.03630	.45900	10.447
#1	.15907	.71622	223.99	6.0840	.02844
#2	.15763	.71088	223.88	6.1236	.02453
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121394-a-10-a Acquired: 7/25/2017 23:36:05 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**36.025**	**2.2429**	**.01247**	**.64349**	**.11377**
Stddev	.122	.0085	.00012	.00144	.00131
%RSD	.33778	.37714	.92803	.22399	1.1483
#1	36.111	2.2489	.01255	.64451	.11469
#2	35.939	2.2369	.01238	.64247	.11284
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.4622**	**7.4085**	**.04784**	**.00702**	**3.9858**
Stddev	.0007	.0122	.00073	.00023	.0208
%RSD	.04585	.16483	1.5238	3.3166	.52090
#1	1.4617	7.4171	.04835	.00685	4.0005
#2	1.4626	7.3998	.04732	.00718	3.9712
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.10977**	**.47193**	**1.1874**	**-.00080**	**.08344**
Stddev	.00104	.00016	.0052	.00049	.00087
%RSD	.94396	.03485	.43896	60.866	1.0383
#1	.10904	.47205	1.1911	-.00114	.08405
#2	.11050	.47181	1.1837	-.00045	.08283
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121394-a-10-a Acquired: 7/25/2017 23:36:05 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.95508
Stddev	.00175
%RSD	.18286
#1	.95631
#2	.95384
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3303.2	2476.2	17416.	3479.0
Stddev	1.1	.8	25.	8.9
%RSD	.03437	.03327	.14604	.25494
#1	3302.4	2476.8	17398.	3472.7
#2	3304.0	2475.6	17434.	3485.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	88.089%	103.07%	100.62%	107.50%
Range				

Sample Name: 480-121394-a-11-b Acquired: 7/25/2017 23:39:29 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00117**	**32.503**	**.25333**	**.06854**	**1.0516**
Stddev	.00054	.170	.00091	.00006	.0034
%RSD	45.811	.52418	.35782	.08650	.32811
#1	-.00155	32.624	.25397	.06858	1.0541
#2	-.00079	32.383	.25269	.06850	1.0492
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00877**	**287.16**	**.00475**	**.1695**	**.04296**
Stddev	.00006	4.09	.00013	.0165	.00004
%RSD	.63186	1.4248	2.7626	9.721	.10470
#1	.00881	290.05	.00466	.1579	.04299
#2	.00873	284.26	.00484	.1812	.04293
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.10036**	**.38807**	**119.40**	**5.8816**	**.03613**
Stddev	.00032	.00253	.48	.0092	.00125
%RSD	.31425	.65227	.40611	.15717	3.4720
#1	.10059	.38986	119.74	5.8881	.03702
#2	.10014	.38628	119.06	5.8751	.03525
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121394-a-11-b Acquired: 7/25/2017 23:39:29 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**32.735**	**1.2827**	**.00910**	**1.2075**	**.11459**
Stddev	.048	.0028	.00024	.0086	.00037
%RSD	.14695	.21556	2.5831	.71532	.32280
#1	32.769	1.2847	.00927	1.2137	.11485
#2	32.701	1.2808	.00893	1.2014	.11433
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.1537**	**7.4787**	**.05703**	**.00661**	**7.4150**
Stddev	.0004	.0060	.00176	.00162	.1034
%RSD	.01614	.08079	3.0827	24.561	1.3942
#1	2.1539	7.4830	.05578	.00546	7.4881
#2	2.1534	7.4744	.05827	.00776	7.3419
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.16478**	**1.2178**	**2.2491**	**-.00033**	**.11124**
Stddev	.00059	.0043	.0003	.00128	.00015
%RSD	.35984	.35646	.01180	394.16	.13632
#1	.16436	1.2209	2.2489	.00058	.11114
#2	.16520	1.2147	2.2493	-.00123	.11135
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121394-a-11-b Acquired: 7/25/2017 23:39:29 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	1.7253
Stddev	.0095
%RSD	.55300
#1	1.7321
#2	1.7186
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3225.3	2495.8	17675.	3555.7
Stddev	1.4	2.0	62.	8.6
%RSD	.04247	.08165	.35299	.24284
#1	3224.3	2494.4	17719.	3549.6
#2	3226.2	2497.3	17631.	3561.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	86.010%	103.88%	102.12%	109.87%
Range				

Sample Name: 480-121394-c-12-a Acquired: 7/25/2017 23:42:59 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00143**	**80.397**	**.26431**	**.13050**	**1.4756**
Stddev	.00038	.413	.00110	.00020	.0008
%RSD	26.636	.51330	.41727	.15008	.05745
#1	-.00116	80.105	.26353	.13064	1.4750
#2	-.00170	80.689	.26509	.13037	1.4762
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01402**	**421.14**	**.00322**	**.2374**	**.03258**
Stddev	.00005	6.34	.00009	.0320	.00029
%RSD	.32989	1.5064	2.8020	13.49	.88099
#1	.01399	416.65	.00316	.2148	.03237
#2	.01405	425.62	.00329	.2600	.03278
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.08913**	**.36597**	**111.03**	**7.6988**	**.07116**
Stddev	.00028	.00166	.11	.0422	.00163
%RSD	.31292	.45394	.10014	.54814	2.2942
#1	.08932	.36715	110.95	7.6689	.07231
#2	.08893	.36480	111.11	7.7286	.07000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121394-c-12-a Acquired: 7/25/2017 23:42:59 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**114.44**	**14.460**	**.00697**	**2.5983**	**.10259**
Stddev	.30	.116	.00005	.0109	.00042
%RSD	.26353	.79943	.66255	.41877	.41143
#1	114.66	14.542	.00694	2.5906	.10229
#2	114.23	14.378	.00701	2.6060	.10289
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**3.0180**	**17.061**	**.04025**	**.00235**	**1.3635**
Stddev	.0024	.003	.00098	.00115	.0093
%RSD	.07803	.01583	2.4442	48.818	.68171
#1	3.0163	17.063	.04095	.00316	1.3700
#2	3.0197	17.059	.03956	.00154	1.3569
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.16345**	**.71891**	**4.1185**	**-.00380**	**.08989**
Stddev	.00000	.00231	.0172	.00030	.00115
%RSD	.00126	.32193	.41760	7.9492	1.2787
#1	.16345	.71728	4.1306	-.00359	.09070
#2	.16345	.72055	4.1063	-.00402	.08908
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121394-c-12-a Acquired: 7/25/2017 23:42:59 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.86327
Stddev	.00621
%RSD	.71912
#1	.86766
#2	.85888
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3037.0	2546.8	17792.	3648.9
Stddev	4.4	3.6	78.	23.4
%RSD	.14607	.14301	.43625	.64006
#1	3040.2	2549.3	17737.	3665.4
#2	3033.9	2544.2	17847.	3632.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	80.990%	106.00%	102.79%	112.75%
Range				

Sample Name: CCV-4147885 Acquired: 7/25/2017 23:46:35 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.53075**	**24.877**	**.51691**	**.50138**	**.48394**
Stddev	.00011	.183	.00181	.00133	.00085
%RSD	.01984	.73398	.35017	.26538	.17479
#1	.53068	24.748	.51563	.50044	.48335
#2	.53083	25.006	.51819	.50232	.48454
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.48805**	**24.670**	**.50065**	**-.0197**	**.49649**
Stddev	.00237	.232	.00070	.0320	.00110
%RSD	.48528	.93984	.13889	163.0	.22078
#1	.48637	24.506	.50015	.0030	.49572
#2	.48972	24.834	.50114	-.0423	.49727
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.54646**	**.48182**	**23.273**	**24.249**	**.50230**
Stddev	.00061	.00033	.217	.191	.00559
%RSD	.11149	.06802	.93401	.78871	1.1136
#1	.54689	.48206	23.120	24.113	.49834
#2	.54603	.48159	23.427	24.384	.50625
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4147885 Acquired: 7/25/2017 23:46:35 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.174**	**.51363**	**.51507**	**24.702**	**.50169**
Stddev	.037	.00051	.00139	.160	.00031
%RSD	.14812	.09864	.26983	.64874	.06171
#1	25.148	.51327	.51409	24.589	.50147
#2	25.201	.51399	.51605	24.816	.50191
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50581**	**24.864**	**.49714**	**.51199**	**23.854**
Stddev	.00072	.000	.00072	.00351	.198
%RSD	.14150	.00047	.14477	.68646	.83162
#1	.50531	24.864	.49663	.51447	23.714
#2	.50632	24.864	.49765	.50950	23.994
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50866**	**.50130**	**.52427**	**.51676**	**.53136**
Stddev	.00012	.00322	.00079	.00061	.00086
%RSD	.02294	.64259	.15008	.11848	.16237
#1	.50874	.49902	.52483	.51633	.53197
#2	.50858	.50358	.52372	.51719	.53075
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4147885 Acquired: 7/25/2017 23:46:35 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.53231
Stddev	.00131
%RSD	.24694
#1	.53324
#2	.53138
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3474.7	2420.3	16829.	3273.5
Stddev	.6	2.3	16.	22.0
%RSD	.01656	.09608	.09453	.67165
#1	3475.2	2421.9	16818.	3289.1
#2	3474.3	2418.7	16841.	3258.0

Sample Name: CCB-4130963 Acquired: 7/25/2017 23:49:47 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**.01939**	**.00082**	**.00005**	**.00019**
Stddev	.00055	.01336	.00143	.00005	.00002
%RSD	1774.1	68.894	174.16	91.413	11.096
#1	.00042	.00994	-.00019	.00008	.00021
#2	-.00036	.02883	.00183	.00002	.00018
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	**.04276**	**-.00000**	**-.0054**	**-.00001**
Stddev	.00002	.00480	.00004	.0494	.00000
%RSD	112.40	11.213	5418.4	909.3	48.430
#1	.00003	.03937	.00003	-.0403	-.00001
#2	.00000	.04615	-.00003	.0295	-.00000
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**-.00124**	**.01967**	**.07031**	**-.00012**
Stddev	.00020	.00033	.00258	.02821	.00165
%RSD	652.33	26.167	13.110	40.118	1363.1
#1	.00017	-.00101	.01785	.05036	-.00129
#2	-.00011	-.00148	.02149	.09026	.00105
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4130963 Acquired: 7/25/2017 23:49:47 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00473**	**.00114**	**.00023**	**.05700**	**.00035**
Stddev	.00259	.00007	.00015	.00034	.00015
%RSD	54.822	6.4519	65.742	.59125	43.776
#1	.00289	.00108	.00012	.05676	.00046
#2	.00656	.00119	.00033	.05724	.00024
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00118**	**.00969**	**-.00031**	**-.00175**	**.01171**
Stddev	.00026	.00132	.00037	.00186	.00163
%RSD	22.085	13.643	120.45	105.92	13.913
#1	-.00099	.01062	-.00005	-.00044	.01056
#2	-.00136	.00875	-.00057	-.00307	.01287
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**.00030**	**.00024**	**.00065**	**.00027**
Stddev	.00008	.00002	.00056	.00061	.00005
%RSD	168.48	6.4139	227.71	94.077	19.514
#1	.00010	.00032	.00064	.00022	.00031
#2	-.00001	.00029	-.00015	.00107	.00024
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4130963 Acquired: 7/25/2017 23:49:47 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.00095
Stddev	.00001
%RSD	1.0169
#1	.00096
#2	.00094
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3808.8	2455.1	17357.	3260.2
Stddev	1.9	1.0	104.	33.7
%RSD	.05074	.03940	.59695	1.0338
#1	3807.4	2455.7	17284.	3284.0
#2	3810.1	2454.4	17431.	3236.3

Sample Name: CCVL-4147888 Acquired: 7/25/2017 23:53:16 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00645**	**.20615**	**.01470**	**.01905**	**.00221**
Stddev	.00023	.00770	.00015	.00004	.00001
%RSD	3.5826	3.7363	.99007	.20270	.29596
#1	.00661	.20070	.01460	.01908	.00222
#2	.00629	.21159	.01480	.01903	.00221
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00199**	**.52161**	**.00199**	**-.0107**	**.00398**
Stddev	.00009	.00214	.00006	.0304	.00008
%RSD	4.4585	.41013	2.8134	285.3	1.9605
#1	.00193	.52313	.00202	.0108	.00404
#2	.00205	.52010	.00195	-.0321	.00393
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00464**	**.01007**	**.06101**	**.54042**	**.03037**
Stddev	.00003	.00022	.00089	.04211	.00133
%RSD	.61727	2.1807	1.4596	7.7912	4.3821
#1	.00462	.00991	.06038	.57019	.02943
#2	.00466	.01022	.06164	.51065	.03132
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4147888 Acquired: 7/25/2017 23:53:16 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20486**	**.00386**	**.01027**	**1.0285**	**.00993**
Stddev	.00215	.00010	.00006	.0031	.00021
%RSD	1.0481	2.6439	.59642	.29753	2.0659
#1	.20334	.00379	.01031	1.0264	.00979
#2	.20638	.00394	.01023	1.0307	.01008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00904**	**.19754**	**.01864**	**.02381**	**.50120**
Stddev	.00095	.00139	.00056	.00101	.00401
%RSD	10.460	.70389	2.9853	4.2348	.80085
#1	.00971	.19853	.01824	.02452	.50404
#2	.00837	.19656	.01903	.02309	.49836
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00899**	**.00514**	**.00560**	**.02039**	**.00500**
Stddev	.00018	.00012	.00015	.00098	.00082
%RSD	2.0365	2.2641	2.6727	4.8171	16.319
#1	.00912	.00505	.00550	.02108	.00442
#2	.00886	.00522	.00571	.01969	.00557
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4147888 Acquired: 7/25/2017 23:53:16 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.01160
Stddev	.00060
%RSD	5.2114
#1	.01117
#2	.01202
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3832.6	2477.6	17480.	3297.0
Stddev	.0	1.1	90.	8.9
%RSD	.00049	.04391	.51712	.27077
#1	3832.6	2476.9	17544.	3290.7
#2	3832.6	2478.4	17416.	3303.3

Sample Name: 480-121394-a-13-a Acquired: 7/25/2017 23:56:44 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00024**	**72.470**	**.12322**	**.07152**	**.58134**
Stddev	.00017	.094	.00101	.00020	.00534
%RSD	70.566	.13016	.81898	.28369	.91893
#1	-.00012	72.537	.12250	.07166	.57756
#2	-.00037	72.404	.12393	.07137	.58512
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00500**	**101.76**	**.00303**	**.2170**	**.04611**
Stddev	.00006	.38	.00016	.0343	.00005
%RSD	1.1250	.37304	5.1118	15.80	.09972
#1	.00496	102.03	.00314	.2412	.04608
#2	.00504	101.49	.00292	.1927	.04615
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.14333**	**.45411**	**119.31**	**13.010**	**.06894**
Stddev	.00012	.00043	.84	.012	.00024
%RSD	.08212	.09479	.70309	.09465	.35513
#1	.14325	.45441	119.91	13.019	.06876
#2	.14342	.45381	118.72	13.002	.06911
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121394-a-13-a Acquired: 7/25/2017 23:56:44 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**43.282**	**2.9967**	**.00938**	**.62711**	**.12280**
Stddev	.208	.0105	.00021	.00778	.00059
%RSD	.47991	.35001	2.2914	1.2401	.47985
#1	43.135	2.9893	.00923	.63261	.12322
#2	43.429	3.0041	.00953	.62161	.12238
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.93450**	**2.4909**	**.01173**	**.00328**	**2.6071**
Stddev	.00400	.0031	.00116	.00201	.0252
%RSD	.42802	.12296	9.9241	61.300	.96682
#1	.93733	2.4931	.01255	.00186	2.6249
#2	.93167	2.4887	.01091	.00470	2.5893
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.12874**	**.18952**	**1.9855**	**.00103**	**.20527**
Stddev	.00061	.00012	.0067	.00101	.00211
%RSD	.47019	.06333	.33685	97.608	1.0273
#1	.12917	.18944	1.9808	.00032	.20378
#2	.12831	.18961	1.9902	.00174	.20676
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121394-a-13-a Acquired: 7/25/2017 23:56:44 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**1.1045**
Stddev	.0099
%RSD	.90022
#1	1.0974
#2	1.1115
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3315.2**	**2574.1**	**17979.**	**3581.3**
Stddev	11.3	13.6	16.	25.0
%RSD	.34067	.52663	.08938	.69780
#1	3307.2	2564.5	17990.	3563.6
#2	3323.2	2583.6	17967.	3598.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	88.409%	107.14%	103.87%	110.66%
Range				

Sample Name: 480-121394-a-14-a Acquired: 7/26/2017 0:00:07 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00122**	**29.019**	**.25881**	**.04296**	**2.8600**
Stddev	.00062	.021	.00041	.00066	.0013
%RSD	51.214	.07267	.15798	1.5270	.04539
#1	-.00078	29.034	.25910	.04343	2.8591
#2	-.00166	29.004	.25852	.04250	2.8609
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00549**	**332.59**	**.00621**	**.1199**	**.05280**
Stddev	.00012	.84	.00012	.0076	.00013
%RSD	2.1761	.25179	1.8623	6.318	.24483
#1	.00558	333.18	.00613	.1253	.05271
#2	.00541	332.00	.00629	.1146	.05289
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.09099**	**.42177**	**119.35**	**6.3419**	**.02727**
Stddev	.00040	.00185	.01	.0172	.00065
%RSD	.43843	.43750	.01021	.27065	2.3743
#1	.09127	.42047	119.36	6.3541	.02773
#2	.09070	.42308	119.34	6.3298	.02681
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121394-a-14-a Acquired: 7/26/2017 0:00:07 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**23.371**	**8.6867**	**.00793**	**1.0505**	**.11782**
Stddev	.016	.0270	.00020	.0086	.00035
%RSD	.06991	.31030	2.5191	.81921	.29607
#1	23.360	8.6676	.00807	1.0444	.11758
#2	23.383	8.7057	.00779	1.0566	.11807
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.0179**	**4.9040**	**.05410**	**.00111**	**3.4906**
Stddev	.0040	.0126	.00003	.00419	.0056
%RSD	.19809	.25737	.05630	378.60	.16197
#1	2.0150	4.9129	.05412	.00407	3.4946
#2	2.0207	4.8951	.05408	-.00186	3.4866
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.14784**	**1.1359**	**2.3620**	**-.00056**	**.12345**
Stddev	.00017	.0005	.0054	.00029	.00072
%RSD	.11214	.04578	.22746	52.018	.58513
#1	.14773	1.1363	2.3582	-.00076	.12294
#2	.14796	1.1356	2.3658	-.00035	.12396
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121394-a-14-a Acquired: 7/26/2017 0:00:07 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**2.0921**
Stddev	.0032
%RSD	.15425
#1	2.0899
#2	2.0944
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3178.7**	**2444.2**	**17209.**	**3460.8**
Stddev	1.0	4.5	8.	10.9
%RSD	.03027	.18388	.04802	.31637
#1	3178.0	2441.0	17203.	3453.0
#2	3179.4	2447.3	17215.	3468.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	84.769%	101.73%	99.425%	106.93%
Range				

Sample Name: BLANK Acquired: 7/26/2017 0:03:44 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00023**	**.00103**	**.00008**	**-.00084**	**.00035**
Stddev	.00119	.01237	.00045	.00018	.00001
%RSD	514.79	1201.0	568.66	20.971	2.0569
#1	-.00108	-.00771	-.00024	-.00072	.00034
#2	.00061	.00977	.00040	-.00097	.00035
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00002**	**.04194**	**-.00005**	**.0096**	**-.00002**
Stddev	.00014	.00201	.00000	.0051	.00003
%RSD	575.41	4.7828	7.4822	53.63	163.57
#1	.00008	.04052	-.00005	.0132	-.00004
#2	-.00012	.04335	-.00006	.0059	.00000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00006**	**.00015**	**.02304**	**.04686**	**.00040**
Stddev	.00023	.00084	.00029	.02035	.00086
%RSD	365.84	554.03	1.2788	43.428	217.51
#1	.00010	-.00044	.02325	.06126	.00101
#2	-.00023	.00075	.02283	.03247	-.00021
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: BLANK Acquired: 7/26/2017 0:03:44 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00192**	**.00111**	**.00015**	**.03910**	**.00031**
Stddev	.00022	.00008	.00008	.00920	.00007
%RSD	11.341	7.3719	53.274	23.517	24.157
#1	.00177	.00106	.00009	.04561	.00026
#2	.00208	.00117	.00020	.03260	.00036
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00011**	**.00286**	**.00039**	**-.00175**	**-.00482**
Stddev	.00071	.00271	.00158	.00214	.00197
%RSD	665.53	94.644	410.67	122.54	40.815
#1	-.00040	.00478	-.00073	-.00327	-.00343
#2	.00061	.00095	.00151	-.00023	-.00621
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00077**	**.00032**	**.00088**	**.00168**	**.00035**
Stddev	.00030	.00005	.00036	.00121	.00056
%RSD	38.498	15.303	40.623	71.800	160.91
#1	-.00098	.00028	.00114	.00253	.00074
#2	-.00056	.00035	.00063	.00083	-.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: BLANK Acquired: 7/26/2017 0:03:44 Type: Unk
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00083
Stddev	.00046
%RSD	55.049
#1	.00115
#2	.00051
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3810.7	2458.2	17350.	3260.7
Stddev	4.1	.3	132.	19.5
%RSD	.10683	.01130	.75933	.59665
#1	3807.8	2458.0	17257.	3246.9
#2	3813.6	2458.4	17443.	3274.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	101.62%	102.32%	100.24%	100.75%
Range				

Sample Name: CCVL-4147888 Acquired: 7/26/2017 0:07:12 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00603**	**.21713**	**.01478**	**.01900**	**.00222**
Stddev	.00076	.02118	.00029	.00023	.00003
%RSD	12.657	9.7556	1.9408	1.1923	1.5239
#1	.00657	.23211	.01458	.01884	.00220
#2	.00549	.20216	.01498	.01916	.00225
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00195**	**.51358**	**.00192**	**-.0029**	**.00388**
Stddev	.00007	.00008	.00000	.0249	.00002
%RSD	3.4395	.01486	.10313	849.0	.54789
#1	.00200	.51364	.00192	.0147	.00386
#2	.00190	.51353	.00192	-.0206	.00389
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00440**	**.00993**	**.06124**	**.54564**	**.02820**
Stddev	.00047	.00046	.00364	.03258	.00208
%RSD	10.645	4.6695	5.9429	5.9707	7.3780
#1	.00407	.01026	.06382	.52261	.02967
#2	.00474	.00960	.05867	.56868	.02673
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4147888 Acquired: 7/26/2017 0:07:12 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20024**	**.00383**	**.01025**	**1.0317**	**.00967**
Stddev	.00088	.00010	.00003	.0042	.00013
%RSD	.43835	2.5937	.27593	.40640	1.3216
#1	.20086	.00376	.01027	1.0287	.00958
#2	.19962	.00391	.01023	1.0346	.00976
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00984**	**.19176**	**.01957**	**.02300**	**.50035**
Stddev	.00032	.00058	.00146	.00224	.01600
%RSD	3.2431	.30239	7.4750	9.7282	3.1969
#1	.00961	.19217	.01853	.02458	.51167
#2	.01006	.19135	.02060	.02141	.48904
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00868**	**.00506**	**.00533**	**.02186**	**.00538**
Stddev	.00022	.00005	.00039	.00022	.00009
%RSD	2.4890	1.0765	7.2905	.99848	1.6311
#1	.00852	.00502	.00560	.02202	.00532
#2	.00883	.00510	.00505	.02171	.00545
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4147888 Acquired: 7/26/2017 0:07:12 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.01115
Stddev	.00107
%RSD	9.6053
#1	.01191
#2	.01039
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3826.5	2472.7	17474.	3299.7
Stddev	8.3	4.0	32.	36.2
%RSD	.21740	.16244	.18587	1.0980
#1	3832.3	2475.5	17451.	3274.1
#2	3820.6	2469.9	17497.	3325.3

Sample Name: CCV-4147885 Acquired: 7/26/2017 0:10:42 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.52060**	**24.762**	**.51522**	**.50144**	**.48863**
Stddev	.00170	.020	.00241	.00015	.00032
%RSD	.32719	.08046	.46808	.03081	.06500
#1	.52180	24.748	.51352	.50155	.48885
#2	.51939	24.777	.51693	.50133	.48840
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.48973**	**24.606**	**.50150**	**-.0317**	**.49725**
Stddev	.00154	.052	.00034	.0290	.00117
%RSD	.31545	.21181	.06820	91.43	.23599
#1	.48863	24.569	.50126	-.0522	.49642
#2	.49082	24.642	.50174	-.0112	.49808
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.53733**	**.48864**	**23.362**	**24.555**	**.50229**
Stddev	.00138	.00080	.131	.106	.00227
%RSD	.25642	.16367	.56181	.43109	.45214
#1	.53830	.48920	23.270	24.480	.50068
#2	.53635	.48807	23.455	24.630	.50390
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4147885 Acquired: 7/26/2017 0:10:42 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.265**	**.51339**	**.51419**	**24.846**	**.50086**
Stddev	.058	.00068	.00007	.039	.00090
%RSD	.22931	.13266	.01451	.15496	.18059
#1	25.224	.51387	.51414	24.818	.50150
#2	25.306	.51291	.51424	24.873	.50022
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50850**	**24.871**	**.49611**	**.51268**	**23.830**
Stddev	.00262	.000	.00076	.00093	.047
%RSD	.51450	.00094	.15355	.18200	.19534
#1	.50665	24.871	.49557	.51334	23.797
#2	.51035	24.871	.49665	.51202	23.863
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50977**	**.50090**	**.51881**	**.51404**	**.52298**
Stddev	.00004	.00047	.00012	.00013	.00045
%RSD	.00756	.09341	.02279	.02521	.08655
#1	.50980	.50057	.51890	.51413	.52330
#2	.50974	.50123	.51873	.51395	.52266
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4147885 Acquired: 7/26/2017 0:10:42 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.52784
Stddev	.00132
%RSD	.24995
#1	.52877
#2	.52691
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3477.5	2421.6	16938.	3274.5
Stddev	6.0	4.4	48.	14.8
%RSD	.17202	.18006	.28549	.45308
#1	3481.7	2424.7	16903.	3285.0
#2	3473.3	2418.5	16972.	3264.0

Sample Name: CCB-4130963 Acquired: 7/26/2017 0:13:54 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00026**	**.02548**	**.00096**	**-.00009**	**.00012**
Stddev	.00052	.00185	.00168	.00049	.00003
%RSD	197.67	7.2643	175.45	568.92	26.682
#1	-.00063	.02417	.00214	-.00043	.00010
#2	.00010	.02679	-.00023	.00026	.00014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00005**	**.01191**	**-.00008**	**.0122**	**.00008**
Stddev	.00010	.00157	.00005	.0025	.00018
%RSD	181.61	13.144	56.450	20.38	226.58
#1	.00002	.01302	-.00005	.0104	.00020
#2	-.00012	.01080	-.00012	.0140	-.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00025**	**-.00058**	**.01046**	**.00099**	**-.00026**
Stddev	.00011	.00000	.00011	.01463	.00071
%RSD	44.435	.44284	1.0746	1479.3	278.05
#1	-.00017	-.00058	.01039	.01133	.00025
#2	-.00033	-.00058	.01054	-.00935	-.00076
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4130963 Acquired: 7/26/2017 0:13:54 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00019**	**.00044**	**.00019**	**.04703**	**.00025**
Stddev	.00303	.00008	.00024	.00566	.00034
%RSD	1557.7	17.228	125.49	12.027	136.28
#1	.00195	.00049	.00035	.04303	.00049
#2	-.00234	.00039	.00002	.05103	.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

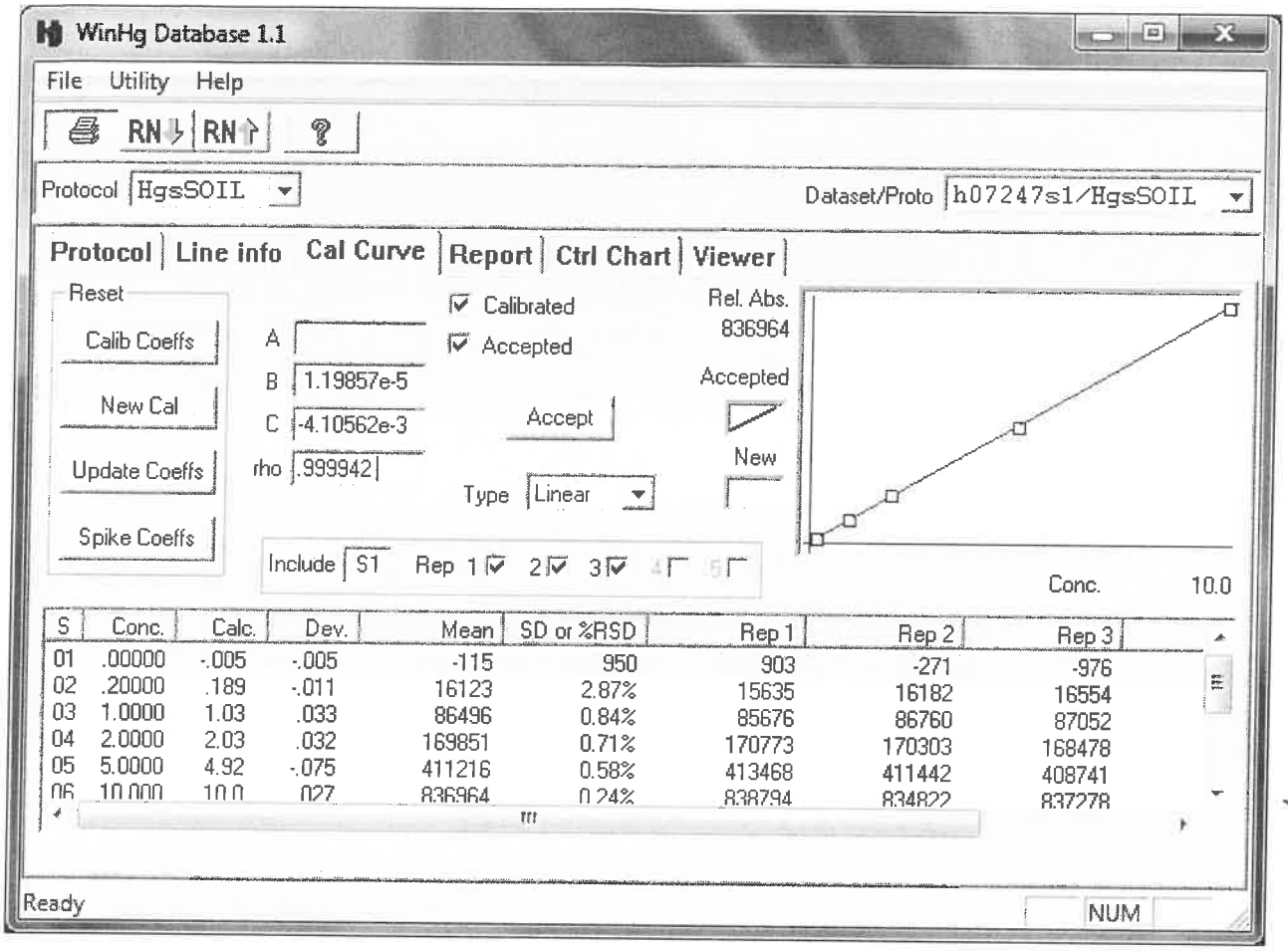
Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00077**	**.00412**	**-.00001**	**-.00188**	**.01134**
Stddev	.00045	.00039	.00006	.00266	.01090
%RSD	58.603	9.5203	623.38	141.53	96.122
#1	-.00109	.00384	.00004	-.00376	.00363
#2	-.00045	.00440	-.00006	.00000	.01905
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00044**	**.00008**	**.00025**	**-.00006**	**.00010**
Stddev	.00009	.00011	.00023	.00091	.00011
%RSD	20.602	130.57	89.348	1653.2	110.02
#1	-.00051	.00016	.00041	.00059	.00018
#2	-.00038	.00001	.00009	-.00070	.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4130963 Acquired: 7/26/2017 0:13:54 Type: QC
Method: ICAP2 June 2017(v59) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.00042
Stddev	.00067
%RSD	159.02
#1	.00090
#2	-.00005
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3815.9	2456.1	17326.	3255.0
Stddev	8.0	4.1	27.	15.5
%RSD	.20841	.16513	.15490	.47481
#1	3810.3	2453.2	17307.	3265.9
#2	3821.5	2458.9	17345.	3244.1



L2

7/24/17

4154441

Cal: H07247cs
Run: H07247s1
Batch: 368382

POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5

4154440

*** Check Standard: 2 Ck2ICV Seq: 1 14:38:42 24 Jul 17 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		94.4	2.83	3.00	ppb	.000

*** Check Standard: 1 Ck1CCB BB 07-24-17 Seq: 2 14:40:24 24 Jul 17 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		.012	.200	ppb	.000

*** Check Standard: 4 Ck4ICVL BB 07-24-17 Seq: 3 14:42:24 24 Jul 17 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		101.	.202	.200	ppb	.000

*** Check Standard: 3 Ck3CCV Seq: 4 14:43:44 24 Jul 17 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		97.3	1.95	2.00	ppb	.000

*** Check Standard: 1 Ck1CCB Seq: 5 14:45:36 24 Jul 17 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		.021	.200	ppb	.000

*** Sample ID: Seq: 6 14:47:37 24 Jul 17 HG
MB 480-368382/1-A

Hg	.016	ppb	.000	.016

*** Sample ID: Seq: 7 14:48:56 24 Jul 17 HG
LCSSRM 480-368382/2- at 10 BB 07-24-17

Hg	3.71	ppb	.000	3.71

*** Sample ID: Seq: 8 14:50:28 24 Jul 17 HG
LCDSRM 480-368382/3- at 10 BB07-24-17

Hg	3.66	ppb	.000	3.66

*** Sample ID: Seq: 9 14:52:01 24 Jul 17 HG
480-121321-B-1-B

Hg	.549	ppb	.000	.549

*** Sample ID: Seq: 10 14:53:32 24 Jul 17 HG
480-121321-A-2-D

Hg	.356	ppb	.000	.356

*** Sample ID: Seq: 11 14:54:52 24 Jul 17 HG
480-121321-A-3-D

Hg	.821	ppb	.000	.821

*** Sample ID: Seq: 12 14:56:27 24 Jul 17 HG
480-121321-A-4-H

Hg	.229	ppb	.000	.229

*** Sample ID: Seq: 13 14:57:52 24 Jul 17 HG
480-121321-A-4-Hsd@5

Hg	.050	ppb	.000	.050

*** Sample ID: Seq: 14 14:59:15 24 Jul 17 HG
480-121321-B-4-F MS

Hg	4.34	ppb	.000	4.34

*** Sample ID: Seq: 15 15:01:37 24 Jul 17 HG
480-121321-B-4-G MSD

Hg	4.20	ppb	.000	4.20

POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Check Standard: 3 Ck3CCV Seq: 16 15:02:57 24 Jul 17 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		95.6	1.91	2.00	ppb	.000

*** Check Standard: 1 Ck1CCB Seq: 17 15:04:38 24 Jul 17 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		.026	.200	ppb	.000

*** Sample ID: Seq: 18 15:06:14 24 Jul 17 HG
480-121321-B-5-C

Hg	.306	ppb	.000	.306

*** Sample ID: Seq: 19 15:07:34 24 Jul 17 HG
480-121321-B-6-C

Hg	.275	ppb	.000	.275

*** Sample ID: Seq: 20 15:09:34 24 Jul 17 HG
480-121411-C-1-A

Hg	2.29	ppb	.000	2.29

*** Sample ID: Seq: 21 15:11:18 24 Jul 17 HG
480-121411-C-2-A

Hg	.399	ppb	.000	.399

*** Sample ID: Seq: 22 15:12:50 24 Jul 17 HG
480-121411-C-3-A

Hg	.219	ppb	.000	.219

*** Sample ID: Seq: 23 15:14:11 24 Jul 17 HG
480-121411-C-3-B MS

Hg	4.39	ppb	.000	4.39

*** Sample ID: Seq: 24 15:15:31 24 Jul 17 HG
480-121411-C-3-C MSD

Hg	4.38	ppb	.000	4.38

*** Sample ID: Seq: 25 15:16:53 24 Jul 17 HG
480-121411-C-4-A

Hg	2.88	ppb	.000	2.88

*** Sample ID: Seq: 26 15:18:15 24 Jul 17 HG
480-121419-C-1-A

Hg	.399	ppb	.000	.399

*** Sample ID: Seq: 27 15:20:19 24 Jul 17 HG
480-121419-C-2-A

Hg	.907	ppb	.000	.907

*** Check Standard: 3 Ck3CCV Seq: 28 15:21:41 24 Jul 17 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		94.9	1.90	2.00	ppb	.000

*** Check Standard: 1 Ck1CCB Seq: 29 15:23:34 24 Jul 17 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.006	.200	ppb	.000

*** Sample ID: Seq: 30 15:25:25 24 Jul 17 HG
480-121419-C-3-A

Hg	1.01	ppb	.000	1.01

POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: Seq: 31 15:26:53 24 Jul 17 HG
480-121419-D-4-A

Hg	.853	ppb	.000	.853				

*** Sample ID: Seq: 32 15:28:33 24 Jul 17 HG
480-121420-D-1-A

Hg	1.18	ppb	.000	1.18				

*** Sample ID: Seq: 33 15:29:53 24 Jul 17 HG
480-121253-A-1-G

Hg	1.58	ppb	.000	1.58				

*** Sample ID: Seq: 34 15:32:07 24 Jul 17 HG
480-121253-B-6-E

Hg	3.08	ppb	.000	3.08				

*** Check Standard: 3 Ck3CCV Seq: 35 15:34:20 24 Jul 17 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		96.8	1.94	2.00	ppb	.000

*** Check Standard: 1 Ck1CCB Seq: 36 15:35:45 24 Jul 17 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.010	.200	ppb	.000

*** Check Standard: 4 Ck4CCVL Seq: 37 15:37:07 24 Jul 17 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		86.4	.173	.200	ppb	.000

METALS BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1

SDG No.:

Batch Number: 368424 Batch Start Date: 07/24/17 17:04 Batch Analyst: Bauer, Elizabeth M

Batch Method: 3050B Batch End Date: 07/25/17 00:13

Lab Sample ID	Client Sample ID	Method Chain	Basis	CalcMsg	InitialAmount	FinalAmount	MED_01_Si 00099	MED_01_W1 00044	MED_02_W2 00040
MB 480-368424/1		3050B, 6010C		CALC NOT SET TO RUN	+0.5434 g	50 mL			
LCSSRM 480-368424/2		3050B, 6010C		CALC NOT SET TO RUN	+0.4917 g	50 mL			
480-121321-B-1	TP-01	3050B, 6010C	T	CALC NOT SET TO RUN	+0.5606 g	50 mL			
480-121321-A-2	TP-03	3050B, 6010C	T	CALC NOT SET TO RUN	+0.5370 g	50 mL			
480-121321-A-3	TP-18	3050B, 6010C	T	CALC NOT SET TO RUN	+0.5209 g	50 mL			
480-121321-A-4	TP-04	3050B, 6010C	T	CALC NOT SET TO RUN	+0.5119 g	50 mL			
480-121321-B-4 MS	TP-04	3050B, 6010C	T	CALC NOT SET TO RUN	+0.5089 g	50 mL	0.5 mL	0.5 mL	0.5 mL
480-121321-B-4 MSD	TP-04	3050B, 6010C	T	CALC NOT SET TO RUN	+0.5229 g	50 mL	0.5 mL	0.5 mL	0.5 mL
480-121321-B-5	TP-05	3050B, 6010C	T	CALC NOT SET TO RUN	+0.5136 g	50 mL			
480-121321-B-6	DUP	3050B, 6010C	T	CALC NOT SET TO RUN	+0.5496 g	50 mL			

Lab Sample ID	Client Sample ID	Method Chain	Basis	MED_03_Ag 00113	MED_04_Sn 00101	MED_05_S 00058	MED_SRM_D087 00004		
MB 480-368424/1		3050B, 6010C							
LCSSRM 480-368424/2		3050B, 6010C					+0.4917 g		
480-121321-B-1	TP-01	3050B, 6010C	T						
480-121321-A-2	TP-03	3050B, 6010C	T						
480-121321-A-3	TP-18	3050B, 6010C	T						
480-121321-A-4	TP-04	3050B, 6010C	T						
480-121321-B-4 MS	TP-04	3050B, 6010C	T	0.5 mL	0.5 mL	0.5 mL			
480-121321-B-4 MSD	TP-04	3050B, 6010C	T	0.5 mL	0.5 mL	0.5 mL			
480-121321-B-5	TP-05	3050B, 6010C	T						
480-121321-B-6	DUP	3050B, 6010C	T						

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.: 480-121321-1

SDG No.:

Batch Number: 368424 Batch Start Date: 07/24/17 17:04 Batch Analyst: Bauer, Elizabeth M

Batch Method: 3050B Batch End Date: 07/25/17 00:13

Batch Notes	
Balance ID	25850472
Batch Comment	70227752(Push Filters)
Blank Soil Lot Number	3978954
First End time	0013
Hydrogen Peroxide ID	40948897
Lot # of hydrochloric acid	4120007
Lot # of Nitric Acid	4106408
Hot Block ID	F
Oven, Bath or Block Temperature 1	93.5 Degrees C
Oven, Bath or Block Temperature 2	Auto Degrees C
Pipette ID	MDL4
First Start time	1704
Thermometer ID	151913830
Digestion Tube/Cup ID	1703076
Uncorrected Temperature	93.2 Celsius
Uncorrected Temperature 2	Auto Degrees C

Basis	Basis Description
T	Total/NA

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

METALS BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1

SDG No.:

Batch Number: 368382 Batch Start Date: 07/24/17 12:35 Batch Analyst: Bauer, Elizabeth M

Batch Method: 7471B Batch End Date: 07/24/17 13:05

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	MED_SRM_D087 00006	MEH_HG1_WKG 01536		
MB 480-368382/1		7471B, 7471B		+0.6137 g	50 mL				
LCSSRM 480-368382/2		7471B, 7471B		+0.1599 g	50 mL	+0.1599 g			
LCDSRM 480-368382/3		7471B, 7471B		+0.1601 g	50 mL	+0.1601 g			
480-121321-B-1	TP-01	7471B, 7471B	T	+0.5878 g	50 mL				
480-121321-A-2	TP-03	7471B, 7471B	T	+0.5996 g	50 mL				
480-121321-A-3	TP-18	7471B, 7471B	T	+0.5805 g	50 mL				
480-121321-A-4	TP-04	7471B, 7471B	T	+0.5983 g	50 mL				
480-121321-B-4 MS	TP-04	7471B, 7471B	T	+0.5884 g	50 mL		2 mL		
480-121321-B-4 MSD	TP-04	7471B, 7471B	T	+0.6066 g	50 mL		2 mL		
480-121321-B-5	TP-05	7471B, 7471B	T	+0.6098 g	50 mL				
480-121321-B-6	DUP	7471B, 7471B	T	+0.6093 g	50 mL				

Batch Notes	
Hydroxylamine Hydrochloride ID	4011386
Batch Comment	1 & 2 Prep 0830
Digestion End Time	1305
Digestion Start Time	1235
Lot # of hydrochloric acid	4012715
Lot # of Nitric Acid	4059485
Hot Block ID	HG-B
Potassium Permanganate ID	4077814
Oven, Bath or Block Temperature 1	95.9
Pipette ID	AN-6 for Std 1+2
Stannous Chloride ID	4060686
Thermometer ID	160510054
Digestion Tube/Cup ID	1605323
Uncorrected Temperature	96.1 Celsius

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.: 480-121321-1

SDG No.:

Batch Number: 368382 Batch Start Date: 07/24/17 12:35 Batch Analyst: Bauer, Elizabeth M

Batch Method: 7471B Batch End Date: 07/24/17 13:05

Basis	Basis Description
T	Total/NA

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

GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job Number: 480-121321-1

SDG No.:

Project: Nash Rd. Wheatfield #932054

Client Sample ID	Lab Sample ID
TP-01	480-121321-1
TP-03	480-121321-2
TP-18	480-121321-3
TP-04	480-121321-4
TP-05	480-121321-5
DUP	480-121321-6

Comments:

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job Number: 480-121321-1

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: 480-121321-1

SDG Number:

Matrix: Solid Instrument ID: NOEQUIP

Method: Moisture XRL Date: 08/17/2009 12:10

Analyte	Wavelength/ Mass	XRL (%)	
Percent Moisture		0.1	
Percent Solids		0.1	

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1

SDG No.:

Instrument ID: NOEQUIP Method: Moisture

Start Date: 07/20/2017 02:46 End Date: 07/20/2017 02:52

Lab Sample ID	D / F	Type	Time	Analytes																				
				% Sol	Moist																			
ZZZZZZ			02:46																					
ZZZZZZ			02:46																					
ZZZZZZ			02:46																					
ZZZZZZ			02:46																					
ZZZZZZ			02:46																					
ZZZZZZ			02:46																					
480-121321-1	1	T	02:46	X	X																			
480-121321-2	1	T	02:46	X	X																			
480-121321-3	1	T	02:46	X	X																			
480-121321-4	1	T	02:46	X	X																			
480-121321-4 MS	1	T	02:46	X	X																			
480-121321-4 MSD	1	T	02:46	X	X																			
480-121321-5	1	T	02:46	X	X																			
480-121321-6	1	T	02:46	X	X																			
ZZZZZZ			02:46																					
ZZZZZZ			02:46																					
ZZZZZZ			02:46																					
ZZZZZZ			02:46																					
ZZZZZZ			02:48																					
ZZZZZZ			02:52																					

Prep Types

T = Total/NA

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-121321-1

SDG No.:

Batch Number: 367803 Batch Start Date: 07/20/17 02:46 Batch Analyst: Williams, Christopher S

Batch Method: Moisture Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	DISH#	DishWeight	SampleMassWet	SampleMassDry		
480-121321-A-1	TP-01	Moisture	T	7	4.40 g	14.64 g	12.57 g		
480-121321-A-2	TP-03	Moisture	T	8	4.40 g	15.07 g	13.21 g		
480-121321-A-3	TP-18	Moisture	T	9	4.40 g	17.44 g	14.58 g		
480-121321-A-4	TP-04	Moisture	T	10	4.40 g	19.14 g	16.50 g		
480-121321-A-4 MS	TP-04	Moisture	T	10	4.40 g	19.14 g	16.50 g		
480-121321-A-4 MSD	TP-04	Moisture	T	10	4.40 g	19.14 g	16.50 g		
480-121321-A-5	TP-05	Moisture	T	11	4.40 g	16.78 g	14.18 g		
480-121321-A-6	DUP	Moisture	T	12	4.40 g	18.81 g	16.27 g		

Batch Notes	
Batch Comment	PP-F-9B-16
Date samples were placed in the oven	20JULY2017
Oven Temp In	107 Degrees C
Time samples were place in the oven	0255

Basis	Basis Description
T	Total/NA

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

Shipping and Receiving Documents

TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228
Phone: 716.691.2600 Fax: 716.691.7991

Chain of Custody Record

202413

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.

TAL-8210 (0713)

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Craig Taylor	Site Contact: kris charney	Date: 7/19/17	COC No:
Company Name: LIRO	Tel/Fax:	Lab Contact: Arlette Johnson	Carrier:	1 of 1 COCs
Address: 690 Delaware Ave	Analysis Turnaround Time			Sampler:
City/State/Zip: Buffalo, NY 14209	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: 716 882-5476	TAT if different from Below 10 Day			Walk-in Client:
Fax:	☐ 2 weeks			Lab Sampling:
Project Name: Nash Rd. Wheatfield	☐ 1 week			
Site: #932054 NYSDEC	☐ 2 days			Job / SDG No.:
PO# 4800796Z	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	6010C TAL Metal ICP	7471B Mercury	8081B TCL Pest	8082A TCL PCBs	8270D TCL SVOC	8260C TCL VOC	Sample Specific Notes:
TP-01	7/19/17	0900	Comp	So.1	4			X	X	X	X	X	X	
TP-03		1000												
TP-18		1100												
TP-04		1300												
TP-05		1400			↓									
MS/MSD (TP-04)		1200			8									
Dup	↓	—	↓	↓	4			↓	↓	↓	↓	↓	↓	

480-121321 COC

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☑ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd: #1 | Corr'd: 3.0 | Therm ID No.:

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Kris Charney	LIRO	7/19/17 1700	Lwallace	TAB	7/19/17 1700
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

Login Sample Receipt Checklist

Client: New York State D.E.C. Job Number: 480-121321-1

Login Number: 121321 **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 (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
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	LIRO
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	